

UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 10-K

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the Fiscal Year Ended December 31, 2024

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

Commission file number 001-11625



Pentair plc

(Exact name of Registrant as specified in its charter)

Ireland

(State or other jurisdiction of
incorporation or organization)

98-1141328

(I.R.S. Employer
Identification number)

Regal House, 70 London Road, Twickenham, London, TW13QS United Kingdom

(Address of principal executive offices)

Registrant's telephone number, including area code: 44-74-9421-6154

Securities registered pursuant to Section 12(b) of the Act:

<u>Title of each class</u>	<u>Trading Symbol(s)</u>	<u>Name of each exchange on which registered</u>
Ordinary Shares, nominal value \$0.01 per share	PNR	New York Stock Exchange

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes

No

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes No

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the Registrant was required to file such reports) and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the Registrant was required to submit such files). Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer Accelerated filer Non-accelerated filer Smaller reporting company Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report.

If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an error to previously issued financial statements.

Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant's executive officers during the relevant recovery period pursuant to §240.10D-1(b).

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes No

Aggregate market value of voting and non-voting common equity held by non-affiliates of the Registrant, based on the closing price of \$76.67 per share as reported on the New York Stock Exchange on June 30, 2024 (the last business day of Registrant's most recently completed second quarter): \$12,544,144,875.

The number of shares outstanding of Registrant's only class of common stock on December 31, 2024 was 164,817,183.

DOCUMENTS INCORPORATED BY REFERENCE

Parts of the Registrant's definitive proxy statement for its annual general meeting to be held on May 6, 2025, are incorporated by reference in this Form 10-K in response to Part III, ITEM 10, 11, 12, 13 and 14.

Pentair plc
Annual Report on Form 10-K
For the Year Ended December 31, 2024

	Page
PART I	
ITEM 1.	Business <u>1</u>
ITEM 1A.	Risk Factors <u>6</u>
ITEM 1B.	Unresolved Staff Comments <u>18</u>
ITEM 1C.	Cybersecurity <u>18</u>
ITEM 2.	Properties <u>20</u>
ITEM 3.	Legal Proceedings <u>20</u>
ITEM 4.	Mine Safety Disclosures <u>20</u>
PART II	
ITEM 5.	Market for Registrant’s Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities <u>22</u>
ITEM 6.	[Reserved] <u>23</u>
ITEM 7.	Management’s Discussion and Analysis of Financial Condition and Results of Operations <u>24</u>
ITEM 7A.	Quantitative and Qualitative Disclosures about Market Risk <u>39</u>
ITEM 8.	Financial Statements and Supplementary Data <u>40</u>
ITEM 9.	Changes in and Disagreements with Accountants on Accounting and Financial Disclosure <u>80</u>
ITEM 9A.	Controls and Procedures <u>80</u>
ITEM 9B.	Other Information <u>80</u>
ITEM 9C.	Disclosure Regarding Foreign Jurisdictions that Prevent Inspections <u>80</u>
PART III	
ITEM 10.	Directors, Executive Officers and Corporate Governance <u>81</u>
ITEM 11.	Executive Compensation <u>81</u>
ITEM 12.	Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters <u>82</u>
ITEM 13.	Certain Relationships and Related Transactions, and Director Independence <u>82</u>
ITEM 14.	Principal Accounting Fees and Services <u>82</u>
PART IV	
ITEM 15.	Exhibits and Financial Statement Schedules <u>83</u>
ITEM 16.	Form 10-K Summary <u>86</u>
	Signatures <u>87</u>

PART I

ITEM 1. BUSINESS

Unless the context otherwise indicates, references herein to “Pentair,” the “Company,” and such words as “we,” “us,” and “our” include Pentair plc and its consolidated subsidiaries.

GENERAL

At Pentair, we help the world sustainably move, improve and enjoy water, life’s most essential resource. From our residential and commercial water solutions to industrial water management and everything in between, Pentair is focused on smart, sustainable water solutions that help our planet and people thrive.

Pentair strategy

Our vision is to be the world’s most valued sustainable water solutions company for our employees, customers and shareholders. As a company, we:

- Focus on growth in our core businesses and strategic initiatives;
- Accelerate digital innovation and technology as well as sustainability investments;
- Expedite growth and drive margin expansion through our Transformation Program; and
- Build a high performance growth culture and deliver on our commitments while living our Win Right values.

HISTORY AND DEVELOPMENT

We are an Irish public limited company that was formed in 2014. We are the successor to Pentair Ltd., a Swiss corporation formed in 2012, and Pentair, Inc., a Minnesota corporation formed in 1966 and our wholly-owned subsidiary, under the Securities Exchange Act of 1934, as amended (the “Exchange Act”). Although our jurisdiction of organization is Ireland, we manage our affairs so that we are centrally managed and controlled in the United Kingdom (the “U.K.”) and therefore have our tax residency in the U.K.

On December 2, 2024, as part of our Pool reportable segment, we completed the acquisition of G & F Manufacturing, LLC (“G & F Manufacturing”) for \$116.0 million in cash, net of cash acquired and subject to customary adjustments. The net purchase price is comprised of an upfront cash payment of \$108.0 million, subject to customary adjustments, and the estimated fair value at the acquisition date of a contingent earn-out liability based upon the achievement of certain defined operating results in the two years following the acquisition. G & F Manufacturing manufactures and services pool heat pumps.

Our registered principal office is located at Regal House, 70 London Road, Twickenham, London, TW13QS United Kingdom. Our management office in the United States (“U.S.”) is located at 5500 Wayzata Boulevard, Suite 900, Golden Valley, Minnesota.

BUSINESS AND PRODUCTS

Pentair is comprised of three reportable segments: Flow, Water Solutions and Pool. The following is a brief description of each of the Company’s reportable segments and business activities.

Flow

The Flow segment aims to deliver water where it is needed, when it is needed, more efficiently and to transform waste into value. This segment designs, manufactures and sells a variety of fluid treatment and pump products and systems, including pressure vessels, gas recovery solutions, membrane bioreactors, wastewater reuse systems and advanced membrane filtration, separation systems, water disposal pumps, water supply pumps, fluid transfer pumps, turbine pumps, solid handling pumps, and agricultural spray nozzles, while serving the global residential, commercial and industrial markets. These products and systems are used in a range of applications, including fluid delivery, ion exchange, desalination, food and beverage, separation technologies for the oil and gas industry, residential and municipal wells, water treatment, wastewater solids handling, pressure boosting, circulation and transfer, fire suppression, flood control, agricultural irrigation and crop spray.

For the fiscal year ended December 31, 2024, our residential and irrigation flow businesses, which sell pumps focused on residential and agriculture, comprised approximately 37% of Flow sales. Another approximately 29% of Flow sales were from the commercial & infrastructure flow businesses, which sell larger pumps focused on fire suppression, water supply, wastewater and flood control. The remaining approximately 34% of Flow sales were from the industrial solutions business, comprised of applications focused on industrial process and air filtration and sustainable gas.

Flow brand names include Pentair Flow, Aurora, Berkeley, Codeline, Fairbanks-Nijhuis, Haffmans, Hydromatic, Hypro, Jung Pumpen, Myers, Sta-Rite, Shurflo, Südmo and X-Flow.

Customers
Flow customers include businesses engaged with end users, and wholesale and retail distribution in the residential, agricultural, commercial, food and beverage, and industrial vertical markets.

Seasonality
We have historically experienced increased demand following warm weather trends for residential water supply and agricultural products. Such demand historically has been at seasonal highs from April to August. Seasonal effects may vary from year to year and are impacted by weather patterns, particularly by temperatures, heavy flooding and droughts.

Competition
Flow faces numerous domestic and international competitors, some of which have substantially greater resources directed to the vertical markets in which we compete. Competition focuses on brand names, product performance (including energy-efficient offerings and required specifications), quality, service and price. We compete by offering a wide variety of innovative and high-quality products, which we believe are competitively priced.

Water Solutions
The Water Solutions segment aims to provide great tasting, higher-quality water and ice while helping people use water more productively. This segment designs, manufactures and sells commercial and residential water treatment products and systems including pressure tanks, control valves, activated carbon products, commercial ice machines, conventional filtration products, and point-of-entry and point-of-use water treatment systems. These water treatment products and systems are for use in residential whole home water filtration, drinking water filtration and water softening solutions in addition to commercial water management and filtration in foodservice operations. In addition, our water solutions business also provides installation and preventative services for water management solutions for commercial operators.

For the fiscal year ended December 31, 2024, our commercial business, which offers products such as conventional filtration products, commercial point-of-entry and point-of-use water treatment systems, activated carbon products and commercial ice machines, comprised approximately 66% of Water Solutions sales. In addition, our commercial business also provides installation and preventative services for water management solutions for commercial operators. The other approximately 34% of Water Solutions sales were associated with our residential business, which primarily focuses on products associated with residential point of entry and point of use filtration and softening systems, pressure tanks and control valves.

Water Solutions brand names include Pentair Water Solutions, Everpure, Fleck, KBI, Manitowoc Ice, Pentek and RainSoft.

Customers
Water Solutions customers include businesses engaged in wholesale and retail distribution in the residential, commercial and food and beverage vertical markets. Customers also include end users, consumers, commercial operators and original equipment manufacturers.

Seasonality
We experience seasonal demand with several end customers and end users within Water Solutions. End-user demand for water solution products generally follows warm weather trends and is at seasonal highs from April to September.

Competition
Water Solutions faces numerous domestic and international competitors, some of which have substantially greater resources directed to the vertical markets in which we compete. Competition focuses on brand names, product performance (including required specifications), quality and price. We compete by offering a wide variety of innovative and high-quality products, which we believe are competitively priced. We believe our distribution channels and reputation for quality also provide us a competitive advantage.

Pool
The Pool segment aims to provide innovative, energy-efficient pool solutions to help people more sustainably enjoy water. This segment designs, manufactures and sells a complete line of energy-efficient residential and commercial pool equipment and accessories including pumps, filters, heaters, lights, automatic controls, automatic cleaners, maintenance equipment and pool accessories. Applications for our pool products include residential and commercial pool maintenance, pool repair, renovation, service, construction and aquaculture solutions.

The primary brand names associated with the Pool segment are Pentair Pool, Kreepy Krauly, Pleatco and Sta-Rite.

Customers

Pool customers include businesses engaged in wholesale and retail distribution in the residential and commercial vertical markets. Customers in the residential and commercial verticals also include end users and consumers.

One customer in the Pool business represented approximately 15% of our consolidated net sales in both 2024 and 2023.

Seasonality

We have historically experienced seasonal demand with several end customers and end users. End-user demand for pool equipment follows warm weather trends and historically has been at seasonal highs from April to August. The magnitude of the sales spike has historically been partially mitigated by employing some advance sale “early buy” programs (generally including extended payment terms and/or additional discounts).

Competition

Pool faces numerous domestic and international competitors, some of which have substantially greater resources directed to the vertical markets in which we compete. Competition focuses on brand names, product performance (including energy-efficient offerings and required specifications), quality, service and price. We compete by offering a wide variety of innovative and high-quality products, which we believe are competitively priced. We believe our distribution channels and reputation for quality also provide us a competitive advantage.

INFORMATION REGARDING ALL REPORTABLE SEGMENTS

Research and development

We conduct research and development activities primarily in our own facilities. These efforts consist mostly of the development of new products, product applications and manufacturing processes.

Raw materials

The principal materials we use in manufacturing our products are mild steel, stainless steel, electronic components (including drives and motors), plastics (resins, fiberglass, epoxies), metals and paint (powder and liquid). In addition to the purchase of raw materials, we purchase some finished goods for distribution for resale.

We purchase the materials we use in various manufacturing processes on the open market. We believe the majority of such materials are available through multiple sources and in adequate supply. We have certain long-term commitments, principally price commitments, for the purchase of various component parts and raw materials and continue to work with our suppliers to maintain delivery continuity. Alternate sources of supply are available for most materials and we believe that the termination of any of these commitments would not have a material adverse effect on our financial position, results of operations or cash flows.

Certain commodities, such as metals and resins, are subject to commodity market and duty-driven price fluctuations. We manage these fluctuations through several mechanisms, including long-term agreements with price adjustment clauses for significant commodity market movements in certain circumstances. Prices for raw materials, such as metals, may trend higher in the near future due to the volatile market trends.

Intellectual property

Patents, non-compete agreements, proprietary technologies, customer relationships, trademarks, trade names and brand names are important to our business. However, we do not regard our business as being materially dependent upon any single patent, non-compete agreement, proprietary technology, customer relationship, trademark, trade name or brand name.

Patents, patent applications and license agreements will expire or terminate over time by operation of law, in accordance with their terms or otherwise. We do not expect the termination of patents, patent applications or license agreements to have a material adverse effect on our financial position, results of operations or cash flows.

Human capital resources

We believe our success depends on our ability to attract, develop and retain strong employees. We believe a deep-rooted culture energizes our employees to make a difference within and beyond the workplace. We strive to be the destination for top talent, and work hard to develop and retain high performers throughout their career. We also believe our Win Right values, positive culture and commitment to inclusion and diversity foster innovation and curiosity, which, in turn, can contribute to us being an industry leader.

As of December 31, 2024, we had approximately 9,750 employees worldwide, of which approximately 50% are located in the U.S. A small portion of our U.S. employees are unionized. Outside the U.S. we have employees in certain countries, primarily in Europe, who are represented by an employee representative organization, such as a union, works council or employee association.

Employee engagement and development

We believe engaging our employees and developing their careers is important to our long-term success and ties directly to our Win Right culture and values. We support our Win Right culture by providing dedicated culture training to our employees globally. We engage with our employees and gather feedback about our employee programs, practices and policies through various approaches that include town hall meetings where Pentair leaders share strategies and perspectives and answer questions; quarterly leadership meetings to communicate our results and expectations; and an annual senior leadership meeting to drive growth and productivity initiatives, share best practices, and invest in our leaders. In addition, we conduct employee engagement and pulse surveys during the year to gauge the level of engagement and potential actions needed on culture, the business, employee experience and retention. We believe in transparency with our employees and provide the results of those surveys to the manager level and above which drive the development of action plans.

Training and development

To support employees in their career journey, we have developed and shared through our dedicated development site, a number of tools and resources. We offer career pathing and development resources for all functions throughout Pentair. We support development annually with a dedicated career week, individual development planning and targeted development experiences supported through live training sessions; on-demand eLearning, virtual classrooms and downloadable materials. Additionally, our annual talent management process supports employees to set objectives, receive feedback and development, and build development plans with their leaders.

Our talent development efforts span across various levels of our organization, including our early career Leadership Development Program, a 36-month program in which potential future leaders participate in rotations intended to develop their capabilities through organization-wide exposure, and our Growth Manager development programs that prepare our new and experienced managers to be more effective and inclusive leaders at Pentair.

Inclusion

Our commitment to inclusion is part of living our Win Right values. Our success also depends on our ability to attract, engage, develop and retain our employees, which includes diverse employees from an array of backgrounds. We believe an inclusive and diverse workforce contributes different perspectives and innovative ideas that enable us to improve. We believe that every employee should be provided the same opportunity to be heard, respected, have a sense of belonging and contribute to our mission. Our Business Resource Groups, which are open to everyone, have been established to help promote a culture of inclusion by providing an additional forum for employee feedback, such as sharing insights that could help the business improve, and sponsoring awareness, education and engagement.

We take an integrated approach to supporting and promoting workplace inclusion by fostering a globally aware, inclusive culture; and reinforcing our practices to be fair and nondiscriminatory. We have various training and organizational approaches dedicated to fostering inclusion, including a training called the “The Power of Inclusion;” Business Resource Groups led by employees; Pentair’s Code of Business Conduct and Ethics; and other resources on our company’s intranet.

Health, safety and wellness

We are committed to providing a safe workplace for all of our employees. We encourage employees to “Stop Work” anytime there is a potential concern regarding worker safety, and promote an open door policy so that all of our employees feel free to speak to their manager if there are any potential health, safety, compliance or sustainability concerns. Additionally, each site maintains a confidential reporting process, and we encourage the use of the Ethics Hotline for employees to report anonymously potential safety concerns. All locations, enterprise wide, are required to meet regulatory agency standards as applicable to each site’s location.

Compensation and benefits

In the U.S., non-union full-time employees are eligible to receive the following benefits: short-term and long-term disability insurance; flexible and health savings accounts and wellness programs; health insurance (medical, pharmacy, dental); eight weeks paid parental leave for birth, adoptive and foster parents; two weeks paid caregiver leave; legal services; retirement benefits; employee stock purchase plan; tuition reimbursement; holidays; vacation and sick time. Benefits for union employees and employees of G & F Manufacturing, which was acquired on December 2, 2024, may vary.

Sustainability Activities

As a leading provider of smart, sustainable water solutions and with a foundation of Win Right values, we recognize that the work we do and the products and services we provide help to improve lives and the environment around the world. We are focused on building on our Win Right values and culture by further contributing to the development of a sustainable and responsible society that we believe will also drive our future growth. We are also focused on further integrating our sustainability goals throughout our business by creating accountability for our sustainability strategy and shared commitments. We have established formal sustainability programs to further advance our sustainability goals.

In 2023, Pentair completed an Environmental, Social and Governance (“ESG”) assessment in alignment with the European Union’s Corporate Sustainability Reporting Directive (“CSRD”). This assessment supported the topics focused on in our first set of social responsibility strategic targets, which we announced in 2021. These strategic targets remained in effect through 2024 and reflected the Company’s social responsibility focus areas. Also in alignment with the CSRD, in 2025 we are conducting an updated sustainability assessment, and expect to use the results of this updated assessment for continued sustainability strategic planning and risk management, as well as to determine future focus areas, targets, goals and disclosure requirements under the CSRD.

Annually, we publish a corporate responsibility/sustainability report on our sustainability activities and accomplishments, which can be found on our corporate website, and which is not incorporated by reference into this Annual Report on Form 10-K.

Environmental Matters

See ITEM 1A “Risk Factors – We are exposed to environmental laws, liabilities and litigation.”

Captive insurance subsidiary

A portion of our property and casualty insurance program is insured through our regulated wholly-owned captive insurance subsidiary, Penwald Insurance Company (“Penwald”). Reserves for policy claims are established based on actuarial projections of ultimate losses. Accruals with respect to liabilities insured by third parties, such as liabilities arising from acquired businesses, pre-Penwald liabilities and those of certain non-U.S. operations, are established.

Matters pertaining to Penwald are discussed in ITEM 8, Note 1 of the Notes to Consolidated Financial Statements – Insurance subsidiary, included in this Form 10-K.

Available information

We make available free of charge (other than an investor’s own Internet access charges) through our Internet website (<https://www.pentair.com>) our Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, and if applicable, amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Exchange Act as soon as reasonably practicable after we electronically file such material with, or furnish it to, the U.S. Securities and Exchange Commission (the “SEC”). Reports of beneficial ownership filed by our directors and executive officers pursuant to Section 16(a) of the Exchange Act are also available on our website. We are not including the information contained on our website as part of, or incorporating it by reference into, this Annual Report on Form 10-K.

In addition, the SEC maintains an internet site that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC, and you may access any materials we file with the SEC through their website at www.sec.gov.

ITEM 1A. RISK FACTORS

You should carefully consider all of the information in this document and the following risk factors before making an investment decision regarding our securities. Any of the following risks could materially and adversely affect our business, financial condition, results of operations, cash flows and the actual outcome of matters as to which forward-looking statements are made in this document.

Risks Relating to Our Business

General global economic and business conditions affect demand for our products.

We compete in various geographic regions and product markets around the world. Among these, the most significant are global industrial, commercial, and residential markets. We have experienced, and expect to continue to experience, fluctuations in revenues and results of operations due to economic and business cycles. Important factors for our businesses and the businesses of our customers and suppliers include the overall strength of the global economy and various regional economies and our customers' confidence in these economies, industrial and governmental capital spending, the strength of residential and commercial real estate markets, residential housing markets, the food service industry, the commercial business climate, global supply chain stability, possible tariff increases, unemployment rates, availability of consumer and commercial financing, interest rates, inflation rates, and energy and commodity prices. Recessions, economic downturns, inflation, slowing economic growth and social and political instability in the industries and/or markets where we compete could negatively affect our revenues and financial performance in future periods, result in future restructuring charges, and adversely impact our ability to grow or sustain our business. For example, current macroeconomic and political instability, inflation and the strengthening of the U.S. dollar have and could continue to adversely impact our results of operations. In addition, military conflicts, such as those between Russia and Ukraine and in the Middle East, and their impact on economies, may adversely impact our results of operations. The businesses of many of our industrial customers are to varying degrees cyclical and have experienced periodic downturns. While we attempt to minimize our exposure to economic or market fluctuations by serving a balanced mix of end markets and geographic regions, any of the above factors, individually or in the aggregate, or a significant or sustained downturn in a specific end market or geographic region could reduce demand for our products and services, which could have a material adverse effect on our business, financial condition, results of operations and cash flows.

We compete in attractive markets with a high level of competition, which may result in pressure on our profit margins and limit our ability to maintain or increase the market share of our products.

The markets for our products and services are geographically diverse and highly competitive. We compete against large and well-established national and global companies, regional and local companies, diversified and pure-play companies, and lower-cost manufacturers. Competition may also result from new entrants into the markets we serve offering products and/or services that compete with ours. We compete based on technical expertise, intellectual property, reputation for quality and reliability, timeliness of delivery, previous installation history, contractual terms, service offerings, customer experience and service, and price. Some of our competitors attempt to compete based primarily on price, localized expertise, and local relationships, especially with respect to products and applications that do not require a great deal of engineering or technical expertise. In addition, during economic downturns, average selling prices tend to decrease as market participants compete more aggressively on price. Moreover, demand for our products, which impacts profit margins, is affected by changes in customer order patterns, such as changes in the levels of inventory maintained by customers and the timing of customer purchases, adoption of new technology and connected products, and changes in customers' preferences for our products, including the success of products offered by our competitors. Customer purchasing behavior may also shift by product mix in the market or result in a shift to new distribution channels. If we are unable to continue to differentiate our products, services and solutions or adapt to changes in customer purchasing behavior or shifts in distribution channels, or if we are unable to maintain our desired pricing or forced to incur additional costs to remain competitive, it could have a material adverse effect on our business, financial condition, results of operations and cash flows.

Our future growth is dependent upon our ability to transform and adapt our products, services, solutions, and organization to meet the demands of local markets in both developed and emerging economies and by developing or acquiring new technologies that achieve market acceptance with acceptable margins.

We operate in global markets that are characterized by customer demand that is often global in scope but localized in delivery. We compete with numerous smaller regional and local companies that may be positioned to offer products produced at lower cost than ours, or to capitalize on highly localized relationships and knowledge that are difficult for us to replicate. Also, in several markets, potential customers prefer local suppliers, in some cases because of existing relationships and in other cases because of local legal restrictions or incentives that favor local businesses. In addition, we need to be flexible to adapt our products to ever changing customer preferences, including those relating to climate change and sustainability matters as well as regulatory requirements. We have identified specific product and geographic market opportunities that we find attractive and continue to pursue, both within and outside the U.S. We expect to continue investing in our businesses to drive these opportunities through research and development and additional sales and marketing resources. Unless we successfully penetrate

these markets, our core sales growth will likely be limited or may decline. Accordingly, our future success depends upon a number of factors, including our ability to transform and adapt our products, services, solutions, organization, workforce and sales strategies to fit localities throughout the world; identify emerging technological and other trends in our target end markets; and develop or acquire competitive technologies, products, services, and solutions and bring them to market quickly and cost-effectively. We must also monitor emerging technologies, such as artificial intelligence, and business models, and we may not be able to take advantage of such technologies, which could include not being able to attract and retain talent that would enable us to leverage such technologies. Our competitors may be more successful in their technology strategy and develop superior products and services with the aid of emerging technologies. In addition, the markets for our products, services and solutions may not develop or grow as we anticipate. The failure of our products, services or solutions to gain market acceptance due to more attractive offerings by our competitors, the introduction of new competitors to the market with new or innovative product offerings, or the failure to address any of the above factors could have a material adverse effect on our business, financial condition, results of operations and cash flows.

We may not be able to identify, finance and complete suitable acquisitions and investments, and any completed acquisitions and investments may be unsuccessful or consume significant resources.

Our business strategy includes acquiring businesses and making investments that complement our existing businesses. We continue to analyze and evaluate the acquisition of strategic businesses or product lines with the potential to strengthen our industry position or enhance our existing set of product, service, and solution offerings. We may not be able to identify suitable acquisition candidates, obtain financing or have sufficient cash necessary for acquisitions, or successfully complete acquisitions in the future. Acquisitions and investments may involve significant cash expenditures, debt incurrences, equity issuances, operating losses and expenses. Acquisitions involve numerous other risks, including:

- diversion of management time and attention from daily operations;
- difficulties integrating acquired businesses, technologies and personnel into our business;
- difficulties in obtaining and verifying the financial statements and other business information of acquired businesses;
- inability to obtain required regulatory approvals;
- potential loss of key employees, key contractual relationships or key customers of acquired companies or of ours;
- assumption of the liabilities and exposure to unforeseen liabilities of acquired companies; and
- dilution of interests of holders of our shares through the issuance of equity securities or equity-linked securities.

It may be difficult for us to integrate acquired businesses efficiently into our business operations. Any acquisitions or investments may not be successful or realize the intended benefits and may ultimately result in impairment charges or have a material adverse effect on our business, financial condition, results of operations and cash flows.

We may not achieve some or all of the expected benefits of our business initiatives.

During 2024 and 2023, we executed certain business restructuring initiatives aimed at reducing our fixed cost structure and realigning our business. Additionally, in 2024 and 2023, we made progress on our Transformation Program designed to accelerate growth and drive margin expansion by driving operational excellence, reducing complexity and streamlining our processes. As a result, we have incurred and expect to continue to incur in the future substantial expense, including transformation costs that include professional services, project management and related design and execution charges, as well as costs related to both labor and non-labor restructuring and IT investments, and restructuring charges. In 2024, we also began using 80/20 guiding principles, which focus on key customers and products through quadrant-based strategies, and we expect this analysis to result in actions to improve operating performance by reducing lower margin sales and removing complexity. As a result, it is possible our revenues could be reduced by exiting certain customers and products. In addition, we may not be able to achieve accelerated growth and margin expansion or operating efficiencies to reduce costs or realize benefits that we anticipate in connection with the foregoing initiatives. If we are unable to execute these initiatives as planned, we may not realize all or any of the anticipated benefits, which could have a material adverse effect on our business, financial condition, results of operations and cash flows.

We may experience cost increases and other inflation.

In recent years, we experienced inflationary cost increases of raw materials, such as metals and resins, drives and motors, as well as increases in logistics, transportation, energy, insurance and labor costs (including wages, pensions and health care benefits). The ongoing volatile market for commodities has the potential to continue to drive price increases in our supply chain. The current U.S. administration has recently implemented tariffs and has announced the possibility of implementing additional, or increasing current, tariffs; these actions and any reactionary tariff adjustments by other countries may also contribute to inflationary cost increases. We strive for productivity improvements and implement increases in selling prices to help mitigate cost increases. We also implement operational initiatives to mitigate the impacts of inflation and reduce our costs. However, these actions may not be successful in managing our costs or increasing our productivity. We anticipate supply chain pressures and inflationary cost increases due to potential tariffs and pressure on global manufacturing to continue into 2025. Continued cost inflation, new or increased tariffs, or our failure to increase prices, generate cost savings or improve productivity could have a material adverse effect on our business, financial condition, results of operations and cash flows.

Interruption of our supply chain could affect our ability to produce or deliver our products and could negatively impact our business and profitability.

In recent years, we experienced supply chain challenges, including increased lead times for raw materials due to availability constraints and high demand for these materials. These disruptions or our failure to effectively respond to them may increase product, logistics or labor costs, limit availability of raw materials or cause delays in delivering our backlog, or may cause an inability to deliver products to our customers or meet customer demand. While we have elevated our engagement with our suppliers and used secondary suppliers and new methods of procurement where available to mitigate supply chain pressures, supply chain challenges may continue in the future. In addition, as we execute on our ongoing Transformation Program, we may incur additional costs as a result of changing to new suppliers and investing in alternative fixtures and tools. Any material interruption in our supply chain, such as: material interruption of the supply of raw materials and components due to the casualty loss of any of our manufacturing plants; interruptions in service by our third-party logistic service providers or common carriers that ship goods within our distribution channels; unexpected delays in shipping or processing through customs of goods; increased logistics costs, including air freight; lack of availability of marine cargo insurance for shipments in certain geographies due to hostilities; trade restrictions, such as increased tariffs or quotas, embargoes or customs restrictions or inspections; or other unexpected or uncontrollable events that cause a material interruption in our supply chain such as pandemics, social or labor unrest, natural disasters, or political disputes, international hostilities, and military conflicts could negatively affect our ability to produce or deliver our products and have a negative material impact on our business and our profitability. Additionally, our raw materials and components are sourced from a wide variety of domestic and international business partners. We rely on these suppliers to provide high quality products and to comply with applicable laws. Our ability to find qualified suppliers who meet our standards and supply products in a timely and efficient manner may be a challenge, especially with respect to raw materials and components sourced from outside the U.S. and from countries or regions with diminished infrastructure, developing or failing economies, or which are experiencing political instability or social unrest. For certain products, we may rely on one or very few suppliers. A supplier's failure to meet our standards, provide products in a timely and efficient manner, or comply with applicable laws is beyond our control. In addition, our competitors may be less reliant on third-party suppliers than we are or have suppliers in a region that has a better cost position or an enhanced logistical advantage than we have, which may give such competitors more control over their supply chain and lead times for manufacturing products. These issues could have a material adverse effect on our business, financial condition, results of operations and cash flows.

We are exposed to political, regulatory, economic, trade, and other risks that arise from operating a multinational business.

Sales outside of the U.S. for the year ended December 31, 2024 accounted for 31% of our net sales. Further, most of our businesses obtain some products, components and raw materials from non-U.S. suppliers. Accordingly, our business is subject to the political, regulatory, economic, trade, and other risks that are inherent in operating in, and purchasing from, numerous countries. These risks include:

- changes in general economic and political conditions in countries where we operate or purchase from, particularly in emerging markets;
- relatively more severe or unpredictable economic conditions in some international markets than in the U.S.;
- the imposition of sanctions, tariffs, duties, exchange controls, currency restrictions or other trade restrictions;
- changes in tax treaties, laws or rulings that could have a material adverse impact on our effective tax rate;
- the difficulty of enforcing agreements and collecting receivables through non-U.S. legal systems;
- the difficulty of communicating and monitoring evolving regulations, standards and directives across our sales channels, product lines, services and global facilities;

- the difficulty of ensuring that our products, services, sales channels and supply chains meet ever-changing regional regulations and requirements;
- trade protection measures and import or export licensing requirements and restrictions;
- the possibility of international hostilities, military conflicts or terrorist action affecting us, our operations, supply chains, our end-markets or economies generally;
- the threat of nationalization and expropriation;
- changes due to nationalist consumer sentiment;
- the difficulty in staffing and managing widespread operations in non-U.S. labor markets;
- limitations on repatriation of earnings or other regionally-imposed capital requirements;
- the difficulty of protecting intellectual property in non-U.S. countries; and
- changes in and required compliance with a variety of non-U.S. laws and regulations, some of which may be incompatible with each other or U.S. laws and regulations.

Our success depends in part on our ability to anticipate and effectively manage these and other risks. We cannot assure that these and other factors will not have a material adverse effect on our international operations or on our business as a whole.

Changes in U.S. or foreign government administrative policy, including the imposition of, or increases in, tariffs and changes to existing trade agreements, could have a material adverse effect on us.

As a result of changes to U.S. or foreign government administrative policy, there may be changes to existing trade agreements; greater restrictions on free trade generally; imposition of or significant increases in tariffs on goods including those imported into the U.S., particularly tariffs on products manufactured in Mexico, China, Canada, or other countries where we purchase, have operations or manufacture or sell products; prohibitions or restrictions on doing business with certain entities, including those with certain relationships with China; and adverse responses by foreign governments to U.S. trade policy, among other possible changes. The current U.S. administration has recently implemented tariffs and has announced the possibility of implementing additional, or increasing current, tariffs, and it remains unclear what the U.S. administration or foreign governments, including China, will or will not do with respect to tariffs or international trade agreements and policies. A trade war; other governmental action, including threatened actions and uncertainty, related to tariffs or international trade agreements; changes in U.S. social, political, regulatory and economic conditions or in laws and policies governing foreign trade, manufacturing, development and investment in the territories and countries where we currently purchase, have operations or manufacture and sell products; and any resulting negative sentiments towards the U.S. as a result of such changes, could have a material adverse effect on our business, financial condition, results of operations and cash flows.

Intellectual property challenges may hinder our ability to develop, engineer and market our products.

Patents, non-compete agreements, proprietary technologies, customer relationships, trademarks, trade names and brand names are important to our business. Intellectual property protections, however, may not preclude competitors from developing products like ours, or from challenging our names or products. Our pending patent, copyright, and trademark registration applications may not be accepted, or competitors may challenge the validity or scope of our patents, copyrights or trademarks. In addition, our patents, copyrights, trademarks and other intellectual property rights may not provide us a significant competitive advantage. Furthermore, our business strategy also includes expanding our smart product offerings and there are many other companies that hold patents in this space. We have noticed an increasing tendency for participants in our markets, including competitors, to use challenges to intellectual property to compete. Patent and trademark challenges increase our costs to develop, engineer and market our products. We may need to spend significant resources monitoring, enforcing and defending, including through litigation, our intellectual property rights, and we may or may not be able to detect infringement by third parties. If we fail to successfully enforce our intellectual property rights or register new patents, our competitive position could suffer, which could have a material adverse effect on our business, financial condition, results of operations and cash flows.

We have significant goodwill and intangible assets and future impairment of our goodwill and intangible assets could have a material adverse effect on our results of operations.

We test goodwill and other indefinite-lived intangible assets for impairment on at least an annual basis, and more frequently if circumstances warrant. As of December 31, 2024, our goodwill and intangible assets were \$4,320.4 million and represented approximately 67% of our total assets. Declines in fair market value could result in future goodwill and intangible asset impairment charges.

A loss of, or material cancellation, reduction, or delay in purchases by or delivery of products to, one or more of our largest customers could harm our business.

Our net sales to our largest customer represented approximately 15% of our consolidated net sales in 2024. While we do not have any other customers that accounted for more than 10% of our consolidated net sales in 2024, we have other customers that are key to the success of our business. Our concentration of sales to a relatively small number of larger customers makes our relationship with each of these customers important to our business. Our success is dependent on retaining these customers, which requires us to successfully manage relationships and anticipate the needs of our customers in the channels in which we sell our products. Our customers also may be impacted by economic conditions in the industries of those customers, which could result in reduced demand for or a delay in purchases of our products. In addition, our customers may cancel orders for purchases of our products or may not order products at rates consistent with past order levels, including due to inventory rebalancing or corrections in channels. In addition, we may not be able to timely deliver products to our largest customers due to supply chain interruptions or otherwise. We cannot provide assurance that we will be able to retain our largest customers. In addition, some of our customers may shift their purchases to our competitors in the future. The loss of one or more of our largest customers, any material cancellation, reduction, or delay in purchases by or delivery of products to these customers, or our inability to successfully develop relationships with additional customers could have a material adverse effect on our business, financial condition, results of operations and cash flows.

Catastrophic and other events beyond our control may disrupt operations at our manufacturing facilities and those of our suppliers, which could cause us to be unable to meet customer demands or increase our costs, or reduce customer spending.

If operations at any of our manufacturing facilities or those of our suppliers were to be disrupted as a result of significant equipment failures, natural disasters, earthquakes, power outages, fires, explosions, terrorism, political disputes, international hostilities, military conflicts, cybersecurity incidents, adverse weather conditions, labor disputes, public health epidemics or pandemics, or other catastrophic events or disruptions outside of our control, we may be unable to fill customer orders and otherwise meet customer demand for our products. Some of our operations, including our pool business operations in North Carolina, Florida and California, are in areas that are more susceptible to natural disasters such as hurricanes, wildfires and earthquakes. These types of events may negatively impact residential, commercial and industrial spending in impacted regions or, depending on the severity, global spending. As a result, any of such events could have a material adverse effect on our business, financial condition, results of operations and cash flows. We maintain property insurance that we believe to be adequate to provide for reconstruction of facilities and equipment, and to cover business interruption losses resulting from any production interruption or shutdown caused by an insured loss. However, any recovery under our insurance policies may not offset the lost sales or increased costs that may be experienced during the disruption of operations and may also affect the price and availability of insurance in the future, which could have a material adverse effect on our business, financial condition, results of operations and cash flows.

Seasonality of sales and weather conditions could have a material adverse effect on our financial results.

We experience seasonal demand with end customers and end users within each of our business segments. Demand for pool equipment in the Pool segment, water solution products in the Water Solutions segment, and residential water supply and agricultural products within the Flow segment follows warm weather trends, with seasonal highs ranging from April to September. While historically we have attempted to mitigate the magnitude of the sales spikes in the Pool segment by employing some advance sale “early buy” programs (generally including extended payment terms and/or additional discounts), we cannot provide assurance that these programs will be successful should we continue to use them in the future. In addition, seasonal effects associated with products within our Flow, Water Solutions and Pool segments may vary from year-to-year and be impacted by weather patterns, such as temperature, heavy flooding and droughts. Moreover, adverse weather conditions, such as cold or wet weather, may negatively impact demand for, and sales of, products within our business segments.

Volatility in currency exchange rates and failure to effectively hedge our exposure to fluctuations could have a material adverse effect on our financial condition, results of operations and cash flows.

Sales outside of the U.S. for the year ended December 31, 2024 accounted for approximately 31% of our net sales. Our financial statements reflect translation of items denominated in non-U.S. currencies to U.S. dollars. Therefore, if the U.S. dollar strengthens in relation to the principal non-U.S. currencies from which we derive revenue as compared to a prior period, our U.S. dollar reported revenue and income will effectively be decreased to the extent of the change in currency valuations, and vice-versa. Fluctuations in foreign currency exchange rates, most notably the strengthening of the U.S. dollar against the euro, could have a material adverse effect on our reported revenue in future periods. In addition, currency variations could have a material adverse effect on margins on sales of our products in countries outside of the U.S. and margins on sales of products that include components obtained from suppliers located outside of the U.S.

Periodically, we use derivative financial instruments to manage or reduce the impact of changes in foreign currency rates. If we are not successful in monitoring our foreign currency exchange exposures and conducting an effective hedging program, our foreign currency hedging activities may not offset the impact of fluctuations in currency exchange rates on our results of operations and financial position.

Our business may be adversely affected by matters associated with our labor force.

Certain of our employees are covered by collective bargaining agreements or represented by works councils. Although we believe that our relations with the labor unions and works councils that represent our employees are generally good and we have experienced no material work stoppages recently, we may experience these and other types of conflicts with labor unions, works councils, or other groups representing our employees. Any future negotiations with these groups may result in significant increases in our cost of labor. In addition, an important aspect of attracting and retaining qualified personnel is continuing to offer competitive wages, employee healthcare, retirement plans and other benefits. The expenses we record for our employee benefit plans depend on factors such as changes in market interest rates and healthcare cost inflation, and significant unfavorable changes in these factors could increase our expenses and funding requirements. An inability to control costs and funding requirements related to employee benefits could negatively impact our results of operations and financial condition.

Complications with the design or implementation of our updated enterprise resource planning system could adversely impact our business and operations.

We rely extensively on information systems and technology to operate and manage our business and summarize operating results. We are in the process of a multi-year implementation of an updated global enterprise resource planning (“ERP”) system in connection with moving to digital processes under our Transformation Program. Ultimately, this ERP system will modernize several of our existing operating and transactional financial systems. The ERP system is designed to accurately maintain our financial records, enhance operational functionality and provide timely information to our management team related to the operation of the business. The ERP system implementation process has required, and will continue to require, the investment of significant personnel and financial resources. We may not be able to successfully implement the ERP system without experiencing delays, increased costs and other difficulties. If we are unable to successfully design and implement the updated ERP system as planned, our financial position, results of operations and cash flows could be negatively impacted. Additionally, if we do not effectively implement the ERP system as planned or the ERP system does not operate as intended, the effectiveness of our internal control over financial reporting could be adversely affected or our ability to assess those controls adequately could be delayed.

Risks Relating to Our Debt and Financial Markets

Increased leverage may harm our business, financial condition and results of operations.

As of December 31, 2024, we had \$1,663.1 million of total debt outstanding on a consolidated basis. Subject to restrictions in our debt agreements, we and our subsidiaries may incur additional indebtedness in the future, including in connection with acquisitions. Our level of indebtedness and any future increases in our level of indebtedness may have important effects on our future operations, including, without limitation:

- additional cash requirements in order to support the payment of interest on our outstanding indebtedness;
- increased vulnerability to adverse changes in general economic and industry conditions, as well as to competitive pressure;
- reduced ability to obtain additional financing for working capital, capital expenditures, general corporate and other purposes;
- reduced flexibility in planning for, or reacting to, changes in our business and our industry; and
- limited flexibility to make acquisitions and develop technology.

Our ability to make payments of principal and interest on and to refinance our indebtedness, including our existing debt as well as any future debt that we may incur, will depend on our ability to generate cash in the future from operations, financings or sales of assets or businesses. Our ability to generate cash is subject to general economic conditions and financial, business and other factors affecting our operations, many of which are beyond our control. If we are unable to generate sufficient cash flow from operations in the future to service our debt and meet our other cash requirements, we may be required, among other things:

- to seek additional financing in the debt or equity markets;
- to refinance or restructure all or a portion of our indebtedness;
- to sell selected assets or businesses; or

- to reduce or delay planned capital or operating expenditures.

Such measures might not be sufficient to enable us to service our debt and meet our other cash requirements. In addition, any such financing, refinancing or sale of assets or businesses might not be available at all or on economically favorable terms.

Covenants in our debt instruments may adversely affect us.

Our credit agreements and indentures contain customary financial covenants, including those that limit the amount of our debt, which may restrict the operations of our business and our ability to incur additional debt to finance acquisitions. Our ability to meet the financial covenants may be affected by events beyond our control, and we cannot provide assurance that we will meet those tests. A breach of any of these covenants could result in a default under our credit agreements or indentures. Upon the occurrence of an event of default under any of our credit facilities or indentures, the lenders or trustees could elect to declare all amounts outstanding thereunder to be immediately due and payable and, in the case of credit facility lenders, terminate all commitments to extend further credit. If the lenders or trustees accelerate the repayment of borrowings, we cannot provide assurance that we will have sufficient assets to repay our credit facilities and our other indebtedness. Furthermore, acceleration of any obligation under any of our material debt instruments will permit the holders of our other material debt to accelerate their obligations, which could have a material adverse effect on our financial condition.

We may increase our debt or raise additional capital, our credit ratings may be downgraded in the future, or our interest rates may increase, each of which could affect our financial condition, and may decrease our profitability.

As of December 31, 2024, we had \$1,663.1 million of total debt outstanding on a consolidated basis. We may increase our debt or raise additional capital in the future, subject to restrictions in our debt agreements. If our cash flow from operations is less than we anticipate, if our cash requirements are more than we expect, or if we intend to finance acquisitions, we may require more financing. However, debt or equity financing may not be available to us on acceptable terms, or at all. If we incur additional debt or raise equity through the issuance of additional capital shares, the terms of the debt or capital shares issued may give the holders rights, preferences and privileges senior to those of holders of our ordinary shares, particularly in the event of liquidation. The terms of the debt may also impose additional and more stringent restrictions on our operations than we currently have. If we raise funds through the issuance of additional equity, the percentage ownership of existing shareholders in our company would decline. If we are unable to raise additional capital when needed, our financial condition could be adversely affected.

Unfavorable changes in the ratings that rating agencies assign to our debt may ultimately negatively impact our access to the debt capital markets and increase the costs we incur to borrow funds. If ratings for our debt fall below investment grade, our access to the debt capital markets may become restricted. Additionally, our credit agreements generally include an increase in interest rates if the ratings for our debt are downgraded. To the extent that our interest rates increase, our interest expense will increase, which could adversely affect our financial condition, results of operations and cash flows.

Disruptions in the financial markets could adversely affect us, our customers and our suppliers by increasing funding costs or reducing availability of credit.

In the normal course of our business, we may access credit markets for general corporate purposes, which may include repayment of indebtedness, acquisitions, additions to working capital, repurchase of shares, capital expenditures and investments in our subsidiaries. Although we expect to have sufficient liquidity to meet our foreseeable needs, our access to and the cost of capital could be negatively impacted by disruptions in the credit markets, including due to failures of financial institutions, which have occurred in the past and made financing terms for borrowers unattractive or unavailable. These factors may make it more difficult or expensive for us to access credit markets if the need arises. In addition, these factors may make it more difficult for our suppliers to meet demand for products or for customers to purchase products or commence new projects as suppliers and customers may experience increased costs of debt financing or difficulties in obtaining debt financing. Disruptions in the financial markets may have adverse effects on various areas of the economy, which could lead to a slowdown in general economic activity and adversely affect our businesses. One or more of these factors could adversely affect our business, financial condition, results of operations or cash flows.

Risks Relating to Legal, Regulatory and Compliance Matters

Violations of the U.S. Foreign Corrupt Practices Act, U.K. Bribery Act, and other anti-corruption laws outside the U.S. could have a material adverse effect on us.

The U.S. Foreign Corrupt Practices Act (“FCPA”), U.K. Bribery Act, and other anti-corruption laws in other jurisdictions generally prohibit companies and their intermediaries from making improper payments to government officials or other persons for the purpose of obtaining or retaining business. Recent years have seen a substantial increase in anti-bribery law enforcement activity, with more frequent and aggressive investigations and enforcement proceedings by both the U.S. Department of Justice and the SEC, increased enforcement activity by non-U.S. regulators, and increases in criminal and civil proceedings brought against companies and individuals. Our policies mandate compliance with these anti-bribery laws. We operate in many parts of

the world that are recognized as having governmental and commercial corruption and, in certain circumstances, strict compliance with anti-bribery laws may conflict with local customs and practices. We cannot assure that our internal control policies and procedures will always protect us from negligent, reckless or criminal acts committed by our employees or third-party intermediaries. In the event that we believe or have reason to believe that our employees, suppliers, customers, or agents have or may have violated applicable anti-corruption laws, including the FCPA, we may be required to investigate the relevant facts and circumstances, which can be expensive and require significant time and attention from senior management. Violations of these laws may require self-disclosure to government agencies and result in criminal or civil sanctions, which could disrupt our business and result in a material adverse effect on our reputation, business, financial condition, results of operations and cash flows.

Our failure to satisfy international trade compliance regulations, and changes in U.S. government and other applicable sanctions, could have a material adverse effect on us.

Our global operations require importing and exporting goods and technology across international borders on a regular basis. Certain of the products we sell are “dual use” products, which are products that may have both civil and military applications, or may otherwise be involved in weapons proliferation, and are often subject to more stringent export controls. From time to time, we obtain or receive information alleging improper activity in connection with imports or exports. Our policies mandate strict compliance with U.S. and non-U.S. trade laws applicable to our products. However, even when we are in strict compliance with law and our policies, we may suffer reputational damage if certain of our products are sold through various intermediaries to sanctioned entities or to entities operating in sanctioned countries. When we receive information alleging improper activity, our policy is to investigate that information and respond appropriately, including, if warranted, reporting our findings to relevant governmental authorities. Nonetheless, our policies and procedures may not always protect us from actions that would violate applicable laws. Any improper actions could subject us to civil or criminal penalties, including material monetary fines, or other adverse actions including denial of import or export privileges, and could damage our reputation and business prospects.

We are exposed to environmental, and health and safety laws, liabilities and litigation.

We are subject to U.S. federal, state, local and non-U.S. laws and regulations governing protection of the environment and worker health and safety. Compliance with these environmental, health and safety regulations could require us to satisfy environmental requirements, increase the cost of manufacturing our products or otherwise have a material adverse effect on our business, financial condition, results of operations and cash flows. Any violations of these laws by us could cause us to incur unanticipated liabilities. We are also required to comply with various environmental laws and maintain permits, many of which are subject to renewal from time to time, for many of our businesses, and we could be adversely impacted if we are unable to renew existing permits or to obtain any additional permits that may be required. Compliance with environmental requirements also could require significant operating or capital expenditures or result in significant operational restrictions. We cannot provide assurance that we have been or will be at all times in compliance with environmental and health and safety laws. If we violate these laws, we could be fined, criminally charged or otherwise sanctioned by regulators.

We have been named as a defendant, target or a potentially responsible party (“PRP”) in a number of environmental matters relating to our current or former businesses. We have disposed of a number of businesses and in certain cases, we have retained responsibility and potential liability for certain environmental obligations. We have received claims for indemnification from certain purchasers of businesses from us. We may be named as a PRP at other sites in the future for existing business units, as well as both divested and acquired businesses. In addition to clean-up actions brought by governmental authorities, private parties could bring individual or class-action claims due to the presence of, or exposure to, hazardous substances, including at sites where we did not have operations but may have acquired liability through an acquisition of a business.

Certain environmental laws impose liability on current or previous owners or operators of real property for the cost of removal or remediation of hazardous substances at their properties or at properties at which they have disposed of hazardous substances. We have projects underway at several current and former manufacturing facilities to investigate and remediate environmental contamination resulting from our past operations or by the operations of divested or acquired businesses or other businesses that previously owned or used the properties. The cost of remediation and other environmental liabilities can be difficult to accurately predict and is typically excluded by insurance. In addition, environmental requirements change and tend to become more stringent over time. Our eventual environmental remediation costs and liabilities could exceed the amount of our current reserves.

Our subsidiaries are party to asbestos-related litigation that could adversely affect our financial condition, results of operations and cash flows.

Our subsidiaries, along with numerous other companies, are named as defendants in a substantial number of lawsuits based on alleged exposure to asbestos-containing materials, substantially all of which relate to our discontinued operations. These cases typically involve product liability claims based primarily on allegations of manufacture, sale or distribution of industrial products that either contained asbestos or were attached to or used with asbestos-containing components manufactured by third

parties or to which asbestos insulation was applied after installation. In addition, some cases brought against us involve the presence of asbestos at facilities that we own or used to own. Each case typically names a large number of product manufacturers, service providers and premises owners. Historically, our subsidiaries have been identified as defendants in asbestos-related claims. Our strategy has been, and continues to be, to mount a vigorous defense aimed at having unsubstantiated suits dismissed, and settling claims before trial only where appropriate. As of December 31, 2024, there were approximately 690 asbestos-related claims pending against our subsidiaries, substantially all of which relate to our discontinued operations. We cannot predict with certainty the extent to which we will be successful in litigating or otherwise resolving lawsuits in the future, and we continue to evaluate different strategies related to asbestos claims filed against us. Unfavorable rulings, judgments or settlement terms could have a material adverse impact on our business and financial condition, results of operations and cash flows. In addition, while most of the asbestos claims against us are covered by liability insurance policies from many years ago, not all claims are insured. As our insurers resolve claims relating to past policy periods, the aggregate coverage provided by those policies erodes. If we exhaust our coverage under those policies, we will be exposed to potential uninsured losses. Over time, the uninsured portion of our asbestos docket may increase, which may require us to set greater reserves to resolve future asbestos cases.

Failure to comply with the broad range of standards, laws and regulations in the jurisdictions in which we operate may result in exposure to substantial disruptions, costs and liabilities.

Our products, manufacturing facilities and business operations are subject to numerous federal, state and local statutory and regulatory requirements, both within and outside the U.S. These laws and regulations impose on us increasingly complex, stringent and costly monitoring and compliance activities, including but not limited to environmental, health, and safety protection standards and permitting, labeling and other requirements regarding (among other things) product efficiency and performance, material makeup, air quality and emissions, and wastewater discharges; the use, handling, and disposal of hazardous or toxic materials and substances, including perfluoroalkyl and polyfluoroalkyl substances (“PFAS”) and other substances of concern; remediation of environmental contamination; and working conditions for and compensation of our employees. We may also be affected by future standards, laws or regulations, including those imposed in response to energy, climate change, product functionality, geopolitical, corporate social responsibility, or similar concerns. These standards, laws, or regulations may impact our costs of operation, the sourcing of raw materials, and the manufacture and distribution of our products and place restrictions and other requirements or impediments on the products and solutions we can sell in certain geographical locations or on the willingness of certain investors to own our shares.

We are exposed to certain regulatory, financial and other risks related to climate change and other sustainability matters.

Climate change is receiving ever increasing attention worldwide. Many scientists, legislators and others attribute global warming to increased levels of greenhouse gases, which has led to significant legislative and regulatory efforts to limit greenhouse gas emissions. The U.S. Environmental Protection Agency (“EPA”) has published findings that emissions of carbon dioxide, methane, and other greenhouse gases (“GHGs”) present an endangerment to public health and the environment because emissions of such gases are, according to the EPA, contributing to the warming of the earth’s atmosphere and other climate changes. Based on these findings, the EPA has implemented regulations that require reporting of GHG emissions, or that limit emissions of GHGs from certain mobile or stationary sources. In addition, the U.S. Congress and federal and state regulatory agencies have considered other legislation and regulatory proposals to reduce emissions of GHGs, and many states have already taken legal measures to reduce emissions of GHGs, primarily through the development of GHG inventories, GHG permitting and/or regional GHG cap-and-trade programs. It is uncertain whether, when and in what form a federal mandatory carbon dioxide emissions reduction program, or other state programs, may be adopted. These and other existing or potential international initiatives and regulations could affect our operations. To the extent our customers, particularly our energy and industrial customers, are subject to any of these or other similar proposed or newly enacted laws and regulations, we are exposed to risks that the additional costs by customers to comply with such laws and regulations could impact their ability or desire to continue to operate at similar levels in certain jurisdictions as historically seen or as currently anticipated, which could negatively impact their demand for our products and services. As customers become increasingly concerned about the environmental impact of their purchases, if we fail to keep up with changing regulations or innovate or operate in ways that minimize the energy use of our products or operations, customers may choose more energy efficient or sustainable alternatives. These actions could also increase costs associated with our operations, including costs for raw materials and transportation. We may also be subject to consumer lawsuits or enforcement actions by governmental authorities if our sustainability claims relating to product marketing are inaccurate. It is uncertain what new laws will be enacted and therefore we cannot predict the potential impact of such laws on our future financial condition, results of operations and cash flows. The laws and regulations regarding sustainability disclosures and requirements, including the Corporate Sustainability Reporting Directive in the European Union and various U.S. state requirements such as in California, are rapidly evolving and could have an adverse effect on our operations and the costs of compliance with, and the other burdens imposed by, these and other laws or regulatory actions may increase our operational costs.

As part of our strategy regarding environmental, climate change and sustainability matters, we have set and may adjust corporate responsibility strategic targets or set additional targets aimed at reducing our impact on the environment and climate change and/or targets relating to other sustainability matters. In addition, as a leading provider of water treatment solutions, our business strategy includes positioning our products and services as sustainable solutions. Actions we take to achieve our targets or strategy could result in increased costs to our operations. We may not be able to achieve such targets or our desired impact, and any future investments we make in furtherance of achieving such targets and our strategy may not meet investor expectations or standards regarding sustainability performance. Moreover, we may determine that it is in the best interest of our company and our shareholders to prioritize other business, social, governance or sustainable investments over the achievement of our current targets based on economic, regulatory and social factors, business strategy or feedback from investors or other stakeholders. In addition, investors and other stakeholders are increasingly focused on these matters, and as stakeholder expectations and standards are evolving, we may not be able to sufficiently respond to these evolving standards and expectations or investors may not view our products and services as sustainable solutions. Furthermore, we could be criticized for the accuracy or completeness of the disclosure of our corporate responsibility and sustainability initiatives. If we are unable to meet our targets or successfully implement our strategy or our corporate responsibility and sustainability reporting is inaccurate or incomplete, then we could suffer from reputational damage and incur adverse reaction from investors and other stakeholders, which could adversely impact the perception of our brand and our products and services by current and potential investors and customers, which could in turn adversely impact our business, results of operations, or financial condition.

Increased cybersecurity threats and computer crime pose a risk to our systems, networks, products and services, and we are exposed to potential regulatory, financial and reputational risks relating to the protection of our data.

We rely upon information technology systems and networks in connection with a variety of business activities, some of which are managed by third parties. As our business increasingly interfaces with employees, customers, dealers and suppliers using information technology systems and networks, we are subject to an increased risk to the secure operation of these systems and networks. Our evolution into smart products subjects us to increased cyber and technology risks. The secure operation of our information technology systems and networks is critical to our business operations and strategy. Cybersecurity threats designed to gain unauthorized access to our systems, networks and data are increasing in frequency and sophistication. These threats pose a risk to the security of our systems and networks and the confidentiality, availability and integrity of the data we process and maintain. Establishing systems and processes to address these threats may increase our costs. We have experienced cybersecurity incidents, and, although we have determined these cybersecurity incidents to be immaterial and to have had no material adverse effect on our business strategy, financial condition, results of operations or cash flows, there can be no assurance of similar results in the future. Should future attacks succeed, it could expose us and our employees, customers, dealers and suppliers to the theft of assets, misuse of information or systems, compromises of confidential information, manipulation and destruction of data, product failures, production downtimes and operations disruptions. The occurrence of any of these events could have a material adverse effect on our reputation, business, financial condition, results of operations and cash flows. While we maintain cybersecurity insurance, the costs related to cybersecurity threats or incidents may not be fully insured, and future cybersecurity coverage may become more expensive if we experience a cybersecurity incident. In addition, such cybersecurity incidents could result in litigation, reputational impacts, regulatory action and potential liability, and additional costs and operational consequences of implementing further data protection measures. For information on our cybersecurity risk management, strategy and governance, see ITEM 1C.- Cybersecurity.

Changes in data privacy laws and our ability to comply with them could have a material adverse effect on us.

We collect and store data that is sensitive to us and our employees, customers, dealers and suppliers. A variety of U.S. and non-U.S. state and national, and international laws and regulations apply to the collection, use, retention, protection, security, disclosure, transfer and other processing of personal and other data. Many data privacy regulations outside of the U.S., including the General Data Protection Regulation (the “GDPR”) in the European Union, are more stringent than federal regulations in the U.S. Within the U.S., many states are considering adopting, or have already adopted privacy regulations, including, for example, the California Consumer Privacy Act. These laws and regulations are rapidly evolving and changing, and could have an adverse effect on our operations. Companies’ obligations and requirements under these laws and regulations are subject to uncertainty in how courts and governmental authorities may interpret them. The costs of compliance with, and the other burdens imposed by, these and other laws or regulatory actions may increase our operational costs, and/or result in interruptions or delays in the availability of systems. In the case of non-compliance with these laws, including the GDPR, regulators have the authority to levy significant fines. In addition, if there is a breach of privacy, we may be required to make notifications under data privacy laws or regulations, or could become subject to litigation. The occurrence of any of these events could have a material adverse effect on our reputation, business, financial condition, results of operations and cash flows.

We may be negatively impacted by litigation and other claims.

We are currently, and may in the future become, subject to litigation and other claims. These legal proceedings are typically claims that relate to our products or services or to the conduct of our business and include, without limitation, claims relating to commercial, regulatory or contractual disputes with suppliers, authorities, customers or parties to acquisitions and divestitures;

intellectual property matters; environmental, asbestos, safety and health matters; product quality and liability matters; matters arising from the use or installation of our products; consumer protection matters; and employment and labor matters. The outcome of such legal proceedings cannot be predicted with certainty, and some may be disposed of unfavorably to us. In addition to insurance costs rising and insurers decreasing coverage, insurance coverage is not available for some of our claims and may be disputed by carriers in others. While we currently maintain what we believe to be suitable product liability insurance, we may not be able to maintain this insurance on our preferred terms or at an acceptable cost. Further, this insurance may not provide adequate protection against potential or previously existing liabilities. In addition, we self-insure a portion of product liability claims and must satisfy deductibles on other insured claims. Additionally, some of our business involves the sale of our products to customers that are constructing large and complex systems, facilities or other capital projects, and while we generally try to limit our exposure to liquidated damages, consequential damages and other potential damages in the contracts for these projects, we could be exposed to significant monetary damages and other liabilities in connection with the sale of our products for these projects for a variety of reasons. In addition, some of our businesses, customers, and dealers are subject to various laws and regulations regarding consumer protection and advertising and sales practices, and we have been named, and may be named in the future, as a defendant in litigation, including class action complaints, arising from alleged violation of these laws and regulations. In addition, our indemnification obligations relating to the purchase or sale of businesses could result in litigation or claims of unknown amounts. Successful claims or litigation against us for significant amounts could have a material adverse effect on our reputation, business, financial condition, results of operations and cash flows.

Risks Relating to Our Jurisdiction of Incorporation in Ireland and Tax Residency in the U.K.

We are subject to changes in law and other factors that may not allow us to maintain a worldwide effective corporate tax rate that is competitive in our industry.

While we believe that we should be able to maintain a worldwide effective corporate tax rate that is competitive in our industry, we cannot give any assurance as to what our effective tax rate will be in the future because of, among other things, uncertainty regarding tax policies of the jurisdictions where we operate. Also, the tax laws and treaties of the U.S., the U.K., Ireland and other jurisdictions could change in the future, and such changes could cause a material change in our worldwide effective corporate tax rate. For example, the Organization for Economic Co-operation and Development Pillar Two Model Rules (“Pillar Two”) for a global 15.0% minimum tax, have been adopted by a number of jurisdictions in which we operate. Pillar Two has negatively impacted our effective tax rate in 2024 and is likely to continue to impact our effective tax rate in the future. We continue to evaluate the enacted legislative changes and new guidance as it becomes available. In addition, legislative action could be taken by the U.S., the U.K., Ireland or the European Union that could override tax treaties or modify tax statutes or regulations upon which we expect to rely and adversely affect our effective tax rate. We cannot predict the outcome of any specific legislative proposals. If proposals were enacted that had the effect of disregarding our incorporation in Ireland or limiting our ability as an Irish company to maintain tax residency in the U.K., we could be subject to increased taxation and/or be required to take action to maintain our effective tax rate, which could materially adversely affect our financial condition, results of operations, cash flows or our effective tax rate in future reporting periods.

A change in our tax residency could have a negative effect on our future profitability, and may trigger taxes on dividends or exit charges.

Under current Irish legislation, a company is regarded as resident for tax purposes in Ireland if it is incorporated in Ireland. Under current U.K. legislation, a company that is centrally managed and controlled in the U.K. is regarded as resident in the U.K. for taxation purposes unless it is treated as resident in another jurisdiction pursuant to any appropriate double tax treaty with the U.K. Other jurisdictions may also seek to assert taxing jurisdiction over us.

The Organization for Economic Co-operation and Development proposed a number of measures relating to the tax treatment of multinationals, some of which are implemented by amending double tax treaties through the multilateral convention to implement tax treaty-related measures to prevent base erosion and profit shifting (the “MLI”). The MLI has now entered into force for a number of countries, including Ireland and the U.K. Under the Double Taxation Convention between Ireland and the U.K., as amended by the MLI, the residency tie-breaker provides that a company will remain dual resident unless there is a determination otherwise by the tax authorities of the two contracting states.

In January 2021, we obtained a determination from the tax authorities in Ireland, the Irish Revenue Commissioners, and in the U.K., HM Revenue & Customs, which states that we are resident for tax purposes only in the U.K.

It is possible that in the future, whether as a result of a change in law or the practice of any relevant tax authority or as a result of any change in the conduct of our affairs, we could become, or be regarded as having become, resident in a jurisdiction other than the U.K. If we cease to be resident in the U.K. and become a resident in another jurisdiction, we may be subject to U.K. exit charges, and could become liable for additional tax charges in the other jurisdiction (including dividend withholding taxes or corporate income tax charges). If we were to be treated as resident in more than one jurisdiction, we could be subject to

taxation in multiple jurisdictions. If, for example, we were considered to be a tax resident of Ireland, we could become liable for Irish corporation tax, and any dividends paid by us could be subject to Irish dividend withholding tax.

Irish law differs from the laws in effect in the United States and may afford less protection to holders of our securities.

It may not be possible to enforce court judgments obtained in the U.S. against us in Ireland based on the civil liability provisions of the U.S. federal or state securities laws. In addition, there is some uncertainty as to whether the courts of Ireland would recognize or enforce judgments of U.S. courts obtained against us or our directors or officers based on the civil liabilities provisions of the U.S. federal or state securities laws or hear actions against us or those persons based on those laws. We have been advised that the U.S. currently does not have a treaty with Ireland providing for the reciprocal recognition and enforcement of judgments in civil and commercial matters. Therefore, a final judgment for the payment of money rendered by any U.S. federal or state court based on civil liability, whether or not based solely on U.S. federal or state securities laws, would not automatically be enforceable in Ireland.

As an Irish company, we are governed by Irish law and the Irish Companies Act 2014, which differs in some material respects from laws generally applicable to U.S. corporations and shareholders, including, among others, differences relating to interested director and officer transactions, mergers and acquisitions and takeovers, and shareholder lawsuits and indemnification of directors. Further, the duties of directors and officers of an Irish company generally are owed to the company only. Shareholders of Irish companies generally do not have a personal right of action against directors or officers of the company and may exercise such rights of action on behalf of the company only in limited circumstances and require court permission to do so. Accordingly, holders of our securities may have more difficulty protecting their interests than would holders of securities of a corporation incorporated in a jurisdiction of the U.S.

Irish law differs from the laws in effect in the United States, which may negatively impact our ability to issue ordinary shares.

Under Irish law, we must have authority from our shareholders to issue any ordinary shares, including shares that are part of our authorized but unissued share capital. In addition, unless otherwise authorized by its shareholders or constitutional document, when an Irish company issues shares for cash to new shareholders, it is required first to offer those shares on the same or more favorable terms to existing shareholders on a pro-rata basis. If we are unable to continue to obtain these authorizations from our shareholders, or are otherwise limited by the terms of our authorizations, our ability to issue ordinary shares under our equity compensation plans and, if applicable, to facilitate funding acquisitions or otherwise raise capital could be adversely affected.

Transfers of our ordinary shares may be subject to Irish stamp duty.

Transfers of our ordinary shares effected by means of the transfer of book entry interests in the Depository Trust Company (“DTC”) will not be subject to Irish stamp duty. However, if you hold your ordinary shares directly rather than beneficially through DTC, any transfer of your ordinary shares could be subject to Irish stamp duty (currently at the rate of 1% of the higher of the price paid or the market value of the shares acquired). Payment of Irish stamp duty is generally a legal obligation of the transferee.

We currently intend to pay, or cause one of our affiliates to pay, stamp duty in connection with share transfers made in the ordinary course of trading by a seller who holds shares directly to a buyer who holds the acquired shares beneficially. In other cases we may, in our absolute discretion, pay or cause one of our affiliates to pay any stamp duty. Our articles of association provide that, in the event of any such payment, we (i) may seek reimbursement from the buyer, (ii) will have a lien against the shares acquired by such buyer and any dividends paid on such shares and (iii) may set-off the amount of the stamp duty against future dividends on such shares. Parties to a share transfer may assume that any stamp duty arising in respect of a transaction in our shares has been paid unless one or both of such parties is otherwise notified by us.

Our ordinary shares, received by means of a gift or inheritance could be subject to Irish capital acquisitions tax.

Irish capital acquisitions tax (“CAT”) could apply to a gift or inheritance of our ordinary shares irrespective of the place of residence, ordinary residence or domicile of the parties. This is because our shares will be regarded as property situated in Ireland. The person who receives the gift or inheritance has primary liability for CAT. Gifts and inheritances passing between spouses are exempt from CAT. Children have a tax-free threshold of €400,000 per lifetime in respect of taxable gifts or inheritances received from their parents for periods on or after October 2, 2024. The standard rate of CAT for gifts and inheritances received above this threshold is 33%.

General Risk Factors

Our share price may fluctuate significantly.

We cannot predict the prices at which our shares may trade. The market price of our shares may fluctuate widely, depending on many factors, some of which may be beyond our control, including:

- actual or anticipated fluctuations in our results of operations due to factors related to our business;

- success or failure of our business strategy;
- our quarterly or annual earnings, or those of other companies in our industry;
- our ability to obtain third-party financing as needed;
- announcements by us or our competitors of significant acquisitions or dispositions;
- changes in accounting standards, policies, guidance, interpretations or principles;
- changes in earnings estimates or guidance by us or securities analysts or our ability to meet those estimates or guidance;
- the operating and share price performance of other comparable companies;
- investor perception of us;
- effect of certain events or occurrences on our reputation;
- overall market fluctuations;
- results from any material litigation or governmental investigation or environmental liabilities;
- natural or other environmental disasters;
- changes in laws and regulations affecting our business; and
- general economic conditions and other external factors.

Stock markets in general have experienced volatility that has often been unrelated to the operating performance of a particular company. These broad market fluctuations could have a material adverse effect on our share price.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 1C. CYBERSECURITY

Our management and Board of Directors (the “Board”) recognize the importance of maintaining the security and resiliency of our cybersecurity environment to deliver on the expectations of our customers, dealers, business partners, employees and investors. The Board oversees our risk management practices, including our overall enterprise risk management (“ERM”) program, in which cybersecurity risk is included. Our cybersecurity program is aligned with the National Institute of Standards and Technology (“NIST”) Cybersecurity Framework (“CSF”) and leverages the International Organization for Standardization and other applicable industry standards. Overall, the purpose of our information security program is to protect the confidentiality, integrity and availability of our systems and data, along with the safe operation of our connected products. This is supported by our security operating framework, roadmap and governance.

Cybersecurity Risk Management and Strategy

Our cybersecurity program is focused on the following areas:

Security governance

We have established processes aimed to assess, identify and manage material risks from cybersecurity threats. Our ERM organizational process includes annual risk assessments. Our cybersecurity team, which is led by our Chief Information Officer and Chief Information Security Officer (the “CIO/CISO”), is responsible for identifying, assessing and managing strategic and operational cybersecurity risks. Our cybersecurity team shares information regarding such risks with our Security Steering Committee, which consists of our General Counsel, Chief Financial Officer, CIO/CISO, and members of our IT, Legal and ERM functions. Both our Security Steering Committee and our ERM function support the Board’s oversight of cybersecurity risk.

Technical safeguards

We deploy technical safeguards designed to protect our systems from cybersecurity threats, including firewalls, anti-malware software, and authentication and authorization controls. Ongoing enhancements are integrated into our security roadmap, as informed by our security audits and assessments.

Security and privacy incident response

We maintain an incident response plan to identify, protect, detect, respond to and recover from cybersecurity threats and incidents. We test and evaluate our plans on a regular basis. The CIO/CISO, the Security Steering Committee, our Chief Executive Officer and the Board are notified of any material cybersecurity incidents through an established escalation process.

Third-party risk management

We maintain a risk-based third-party risk management process designed to identify, assess and manage risks presented by service providers, vendors and other third parties that access our systems or that process or store our data.

Security awareness and training

We provide ongoing security awareness and training to educate internal users on how to identify and report potential issues. Professional-level employees receive mandatory cybersecurity education and training. Employee phishing tests are conducted on a regular basis. Employees who do not follow protocol are redirected for additional training. We also provide periodic updates to employees on emerging cybersecurity trends and ways to protect themselves and our company.

Security audits and assessments

We perform periodic security audits and assessments to test our cybersecurity program. These efforts span across our cybersecurity program, including but not limited to audits, assessments, tabletop exercises, vulnerability scanning and penetration tests. We regularly engage third parties to assess our cybersecurity program, including cybersecurity maturity assessments, penetration testing, and independent review of our security control environment and operating effectiveness. The results of the assessments are included for review by the Security Steering Committee and the Audit and Finance Committee of the Board. We look to enhance our cybersecurity program with the results of the audits, assessments and reviews we perform.

Governance

The Board is responsible for general oversight of our risk management, including cybersecurity risk. The Audit and Finance Committee of the Board is responsible for overseeing our risk exposure to information security, cybersecurity and data protection, as well as the steps management has taken to monitor and control such exposures. We conduct cybersecurity audits and assessments on a regular basis and either our CIO/CISO or Chief Financial Officer report to the Audit and Finance Committee on a quarterly basis.

Our cybersecurity team, which is responsible for assessing and managing our risks from cybersecurity threats, is led by the CIO/CISO, who reports to our Chief Financial Officer. The Security Steering Committee provides additional oversight for assessing and managing cybersecurity risk.

The CIO/CISO has over 20 years of cybersecurity and technology experience and has previously held Chief Information Security Officer positions at a large public retail company, as well as at a public technology company and services organization. The CIO/CISO has an undergraduate degree in Management Information Systems. Members of our cybersecurity team have broad experience in security functions in various industries. Our Chief Executive Officer, Chief Financial Officer and General Counsel each hold degrees in their respective fields, and each have over 25 years of experience managing risks at the Company and at similar companies, including risks arising from cybersecurity threats.

Impact of Cybersecurity Threats

Previous cybersecurity incidents have not materially affected us, including our business strategy, results of operations or financial condition. However, risks from cybersecurity threats, including but not limited to exploitation of vulnerabilities, ransomware, denial of service, supply chain attacks, or other similar threats may materially affect us, including our execution of business strategy, reputation, results of operations and/or financial condition. See ITEM 1A. "Risk Factors - Increased cybersecurity threats and computer crime pose a risk to our systems, networks, products and services, and we are exposed to potential regulatory, financial and reputational risks relating to the protection of our data" for a discussion of cybersecurity risks.

ITEM 2. PROPERTIES

Our principal office is located in leased premises in London, U.K., and our management office in the U.S. is located in leased premises in Golden Valley, Minnesota.

Our operations are conducted in sites throughout the world. These sites house manufacturing and distribution operations, as well as sales and marketing, engineering and administrative offices. The following is a summary of our principal properties as of December 31, 2024, including manufacturing, distribution, sales offices and service centers:

	Location	No. of Sites			
		Manufacturing	Distribution	Sales and Corporate Offices	Service Centers
Flow	U.S. and 15 foreign countries	21	10	4	8
Water Solutions	U.S. and 5 foreign countries	14	5	4	30
Pool	U.S. and 2 foreign countries	6	15	4	2
Corporate	U.S. and 3 foreign countries	—	—	6	—
Total		41	30	18	40

We believe that our production sites, as well as the related machinery and equipment, are well maintained and suitable for their purpose and are adequate to support our businesses.

ITEM 3. LEGAL PROCEEDINGS

We have been, and in the future may be, made parties to a number of actions filed, or have been, and in the future may be, given notice of potential claims relating to the conduct of our business, including those relating to commercial, regulatory or contractual disputes with suppliers, customers, authorities or parties to acquisitions and divestitures; intellectual property matters; environmental, asbestos, safety and health matters; product liability; the use or installation of our products; consumer matters; and employment and labor matters. Refer to “*Legal proceedings*” and “*Environmental matters*” within [Note 15 “Commitments and Contingencies,”](#) of the consolidated financial statements included in ITEM 8 of Part II of this Form 10-K for information regarding legal and regulatory proceedings we are involved in. In addition, see [Item 1A “Risk Factors - Our subsidiaries are party to asbestos-related litigation that could adversely affect our financial condition, results of operations and cash flows”](#) related to asbestos matters.

ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

INFORMATION ABOUT OUR EXECUTIVE OFFICERS

Current executive officers of Pentair plc, their ages, current position and their business experience during at least the past five years are as follows:

<u>Name</u>	<u>Age</u>	<u>Current Position and Business Experience</u>
John L. Stauch	60	President and Chief Executive Officer since 2018; Executive Vice President and Chief Financial Officer 2007 – 2018; Chief Financial Officer of the Automation and Control Systems unit of Honeywell International Inc. 2005 – 2007; Vice President, Finance and Chief Financial Officer of the Sensing and Controls unit of Honeywell International Inc. 2004 – 2005; Vice President, Finance and Chief Financial Officer of the Automation & Control Products unit of Honeywell International Inc. 2002 – 2004; Chief Financial Officer and IT Director of PerkinElmer Optoelectronics, a unit of PerkinElmer, Inc., 2000 – 2002.
Adrian C. Chiu	46	Executive Vice President and President of the Water Solutions reportable segment since 2023; Executive Vice President, Chief Human Resources Officer and Chief Transformation Officer 2021 – 2022; Vice President of Total Rewards and Human Resources Information Systems 2018 – 2021; Vice President and Project Management Office Leader for the separation of nVent plc (Pentair’s former electrical business) 2017 – 2018; Vice President of Human Resources Technology, Operations, and Equity Compensation 2016 – 2018; Senior Director of Human Resources Technology and Services 2011 – 2016; Various consulting positions of increasing responsibility at IBM Global Business Services 2000 – 2011.
Robert P. Fishman	61	Executive Vice President, Chief Financial Officer and Chief Accounting Officer since 2020; Executive Vice President and Chief Financial Officer of NCR Corporation (a global provider of omni-channel technology solutions) 2016 – 2018; Senior Vice President and Chief Financial Officer of NCR Corporation 2010 – 2016; Vice President and Corporate Controller of NCR Corporation 2007 – 2009.
Tanya L. Hooper	52	Executive Vice President and Chief Human Resources Officer since 2023; Vice President of Global Talent and Corporate Human Resources of Honeywell International Inc. 2021 – 2022; Vice President and Chief Human Resources Officer of Collins Aerospace 2019 – 2021; Vice President of Talent of Collins Aerospace 2018 – 2019; Vice President of Human Resources of Collins Aerospace 2016 – 2018; Various positions of increasing responsibility at Shell 2000 – 2016.
Jerome O. Pedretti	54	Executive Vice President and Chief Executive Officer of the Pool reportable segment since 2023; Executive Vice President and President of the Flow reportable segment 2020 – 2022; Senior Vice President of Pentair’s former Aquatic Systems reportable segment 2016 – 2019; Vice President of Pentair’s former Valves & Controls business 2014 – 2016; Vice President Growth Strategy 2010 – 2014; Various business leadership positions of Pentair 2005 – 2014; Consultant at Bain & Co 2002 – 2005.
Stephen J. Pilla	61	Executive Vice President, Chief Supply Chain Officer and Chief Transformation Officer since 2023; Executive Vice President and Chief Supply Chain Officer 2020 – 2022; Vice President and Chief Supply Chain Officer of Red Wing Shoe Co. (a manufacturer of personal protection equipment and footwear) 2017 – 2020; Vice President and General Manager of Pentair’s former Enclosure Division 2015 – 2017; Vice President of Pentair’s Global Operations and Supply Chain 2014 – 2016; Vice President, Global Supply of Pentair 2009 – 2012; Various other business leadership positions of Pentair 2002 – 2009.
Karla C. Robertson	54	Executive Vice President, Chief Sustainability Officer, General Counsel and Secretary since 2020; Executive Vice President, General Counsel and Secretary 2018 – 2020; General Counsel, Water segment 2017 – 2018; Executive Vice President, General Counsel and Corporate Secretary of SUPERVALU Inc. (a wholesaler and retailer of grocery products) 2013 – 2017; Vice President, Employment, Compensation and Benefits Law of SUPERVALU Inc. 2012 – 2013; Director, Employment Law of SUPERVALU Inc. 2011 – 2012; Senior Counsel, Employment Law of SUPERVALU Inc. 2009 – 2011; Senior Employee Relations Counsel of Target Corporation 2006 – 2008; Associate, Faegre & Benson LLP 2000 – 2005; Judicial Clerk, United States District Court for the Southern District of Iowa 1998 – 2000.
Philip M. Rolchigo	63	Executive Vice President and Chief Technology Officer since 2018; Chief Technology Officer 2017 – 2018; Vice President of Technology 2015 – 2017; Vice President of Engineering 2007 – 2015; Business Development Director of Water Technologies business of GE Global Research Center 2006 – 2007; Director of Technology of GE Water & Process Technologies 2003 – 2006; Chief Technology Officer of Osmonics 2000 – 2003; Vice President of Research & Development of Osmonics 1998 – 2000.
De’Mon L. Wiggins	50	Executive Vice President and President of the Flow reportable segment since 2023; Group President of Pentair’s Pool business 2021 – 2022; Vice President of Pentair’s Pool business 2017 – 2021; Vice President and Strategic Business Unit leader for Pentair’s Fluid Motion platform 2016 – 2017; Various other business leadership positions of Pentair 2010 – 2016.

PART II

ITEM 5. MARKET FOR REGISTRANT’S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

Our ordinary shares are listed for trading on the New York Stock Exchange (“NYSE”) under the symbol “PNR.” As of December 31, 2024, there were 11,731 shareholders of record.

Pentair has paid 196 consecutive quarterly cash dividends, including most recently a dividend of \$0.23 per share in the fourth quarter of 2024. On December 16, 2024, Pentair’s Board of Directors approved a regular quarterly cash dividend of \$0.25 per share that was paid on February 7, 2025 to shareholders of record at the close of business on January 24, 2025. This dividend reflects a 9 percent increase in the Company’s regular cash dividend rate and marks the 49th consecutive year that Pentair has increased its dividend.

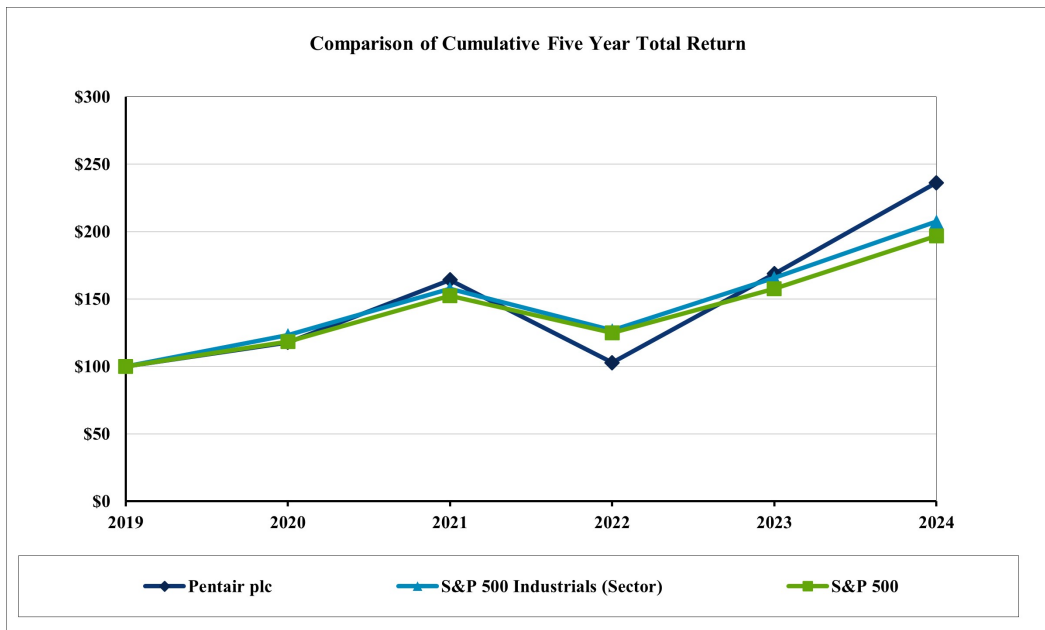
The timing, declaration and payment of future dividends to holders of our ordinary shares will depend upon many factors, including our financial condition and results of operations, the capital requirements of our businesses, industry practice and any other relevant factors.

Share Performance Graph

The following information under the caption “Share Performance Graph” in this ITEM 5 of this Annual Report on Form 10-K is not deemed to be “soliciting material” or to be “filed” with the SEC or subject to Regulation 14A or 14C under the Securities Exchange Act of 1934, as amended (the “Exchange Act”), or to the liabilities of Section 18 of the Exchange Act and will not be deemed to be incorporated by reference into any filing under the Securities Act of 1933, as amended, or the Exchange Act, except to the extent we specifically incorporate it by reference into such a filing.

The following graph sets forth the cumulative total shareholder return on our ordinary shares for the last five years, assuming the investment of \$100 on December 31, 2019 and the reinvestment of all dividends since that date to December 31, 2024. The graph also contains for comparison purposes the S&P 500 Index and the S&P 500 Industrials Index, assuming the same investment level and reinvestment of dividends.

By virtue of our market capitalization, we are a component of the S&P 500 Index. On the basis of our size and diversity of businesses, we believe the S&P 500 Industrials Index is an appropriate published industry index for comparison purposes.



Company / Index	Base Period December		INDEXED RETURNS Years ended December 31			
	2019	2020	2021	2022	2023	2024
Pentair plc	\$ 100	\$ 117.89	\$ 164.15	\$ 102.80	\$ 168.75	\$ 236.25
S&P 500 Index	100	118.40	152.39	124.79	157.59	197.02
S&P 500 Industrials Index	100	123.17	157.53	126.96	165.61	207.55

Purchases of Equity Securities

The following table provides information with respect to purchases we made of our ordinary shares during the fourth quarter of 2024:

	(a)	(b)	(c)	(d)
	Total number of shares purchased	Average price paid per share	Total number of shares purchased as part of publicly announced plans or programs	Dollar value of shares that may yet be purchased under the plans or programs
October 1 – October 26	229	\$ 95.00	—	\$ 500,002,264
October 27 – November 23	1,086	99.06	—	500,002,264
November 24 – December 31	473,457	106.05	471,493	450,002,346
Total	474,772		471,493	

^(a) The purchases in this column include 229 shares for the period October 1 – October 26, 1,086 shares for the period October 27 – November 23, and 1,964 shares for the period November 24 – December 31 deemed surrendered to us by participants in our equity incentive plans to satisfy the exercise price or withholding of tax obligations related to the exercise of stock options and vesting of restricted and performance shares.

^(b) The average price paid in this column includes shares repurchased as part of our publicly announced plans and shares deemed surrendered to us by participants in our equity incentive plans to satisfy the exercise price for the exercise price of stock options and withholding tax obligations due upon stock option exercises and vesting of restricted and performance shares.

^(c) The number of shares in this column represents the number of shares repurchased as part of our publicly announced plans to repurchase our ordinary shares up to a maximum dollar limit authorized by the Board of Directors, discussed below.

^(d) In December 2020, the Board of Directors authorized the repurchase of our ordinary shares up to a maximum dollar limit of \$750.0 million. This authorization expires on December 31, 2025. As of December 31, 2024, we had \$450.0 million remaining availability for repurchases under this authorization. From time to time, we may enter into a Rule 10b5-1 trading plan for the purpose of repurchasing shares under this authorization.

ITEM 6. [RESERVED]

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Forward-looking statements

This report contains statements that we believe to be “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995. All statements, other than statements of historical fact, are forward-looking statements. Without limitation, any statements preceded or followed by or that include the words “targets,” “plans,” “believes,” “expects,” “intends,” “will,” “likely,” “may,” “anticipates,” “estimates,” “projects,” “should,” “would,” “could,” “positioned,” “strategy,” or “future” or words, phrases, or terms of similar substance or the negative thereof are forward-looking statements. These forward-looking statements are not guarantees of future performance and are subject to risks, uncertainties, assumptions and other factors, some of which are beyond our control, which could cause actual results to differ materially from those expressed or implied by such forward-looking statements. These factors include the overall global economic and business conditions impacting our business, including the strength of housing and related markets and conditions relating to international hostilities; supply, demand, logistics, competition and pricing pressures related to and in the markets we serve; the ability to achieve the benefits of our restructuring plans, cost reduction initiatives and Transformation Program; the impact of raw material, logistics and labor costs and other inflation; volatility in currency exchange rates and interest rates; failure of markets to accept new product introductions and enhancements; the ability to successfully identify, finance, complete and integrate acquisitions; risks associated with operating foreign businesses; the impact of seasonality of sales and weather conditions; our ability to comply with laws and regulations; the impact of changes in laws, regulations and administrative policy, including those that limit U.S. tax benefits or impact trade agreements and tariffs; the outcome of litigation and governmental proceedings; and the ability to achieve our long-term strategic operating and sustainability goals and targets. Additional information concerning these and other factors is contained in our filings with the U.S. Securities and Exchange Commission (the “SEC”), including this Annual Report on Form 10-K. All forward-looking statements speak only as of the date of this report. Pentair assumes no obligation, and disclaims any obligation, to update the information contained in this report.

Overview

Pentair plc and its consolidated subsidiaries (“we,” “us,” “our,” “Pentair” or the “Company”) is a pure play water industrial manufacturing company comprised of three reportable segments: Flow, Water Solutions and Pool. We classify our operations into business segments based primarily on types of products offered and markets served. For the year ended December 31, 2024, the Flow, Water Solutions and Pool reportable segments represented approximately 37%, 28% and 35% of total consolidated net sales, respectively.

Although our jurisdiction of organization is Ireland, we manage our affairs so that we are centrally managed and controlled in the United Kingdom (the “U.K.”) and therefore have our tax residency in the U.K.

On December 2, 2024, as part of our Pool reportable segment, we completed the acquisition of G & F Manufacturing, LLC (“G & F Manufacturing”) for \$116.0 million in cash, net of cash acquired and subject to customary adjustments. The net purchase price is comprised of an upfront cash payment of \$108.0 million, subject to customary adjustments, and the estimated fair value at the acquisition date of a contingent earn-out liability based upon the achievement of certain defined operating results in the two years following the acquisition. G & F Manufacturing manufactures and services pool heat pumps.

Key trends and uncertainties regarding our existing business

The following trends and uncertainties affected our financial performance in 2024, and are reasonably likely to impact our results in the future:

- We have a Transformation Program designed to accelerate growth and drive margin expansion by driving operational excellence, reducing complexity and streamlining our processes. During 2024, we made strategic progress on our Transformation Program initiatives with a focus on our four key themes of pricing excellence, strategic sourcing, operations excellence and organizational effectiveness. We expect to continue to execute on our key Transformation Program initiatives to drive margin expansion and to continue to incur transformation costs in 2025 and beyond.
- In 2024, we began using 80/20 guiding principles to enable our Transformation Program. This 80/20 analysis is expected to create value by focusing on key customers and products through quadrant-based strategies. We expect the analysis to result in actions to improve operating performance by driving growth with our highest value customers, reducing lower margin sales and removing complexity in the future.
- In 2024, we executed certain business restructuring initiatives aimed at reducing our fixed cost structure and realigning our business. We expect these actions to continue into 2025 and to drive margin growth.

- During 2024, we experienced inflationary cost increases for certain raw materials as well as logistics and transportation costs. The ongoing volatile market for commodities has the potential to continue to drive price increases in our supply chain. In addition, the current U.S. administration has recently implemented tariffs and has announced the possibility of implementing additional, or increasing current, tariffs; these actions and any reactionary tariff adjustments by other countries may also contribute to inflationary cost increases. As a result, we have taken pricing actions, which may continue going forward, and implemented transformation initiatives that we expect to improve productivity and offset cost increases. We anticipate supply chain pressures and inflationary cost increases due to potential tariffs and pressure on global manufacturing to continue into 2025.
- The Organization for Economic Co-operation and Development Pillar Two Model Rules (“Pillar Two”), for a global 15.0% minimum tax, have been adopted by a number of jurisdictions in which we operate. Pillar Two has negatively impacted our effective tax rate in 2024 and is likely to continue to impact our effective tax rate in the future. We continue to evaluate the enacted legislative changes and new guidance as it becomes available.
- We have identified specific product and geographic market opportunities that we find attractive and continue to pursue, both within and outside the U.S. We expect to continue investing in our businesses to drive these opportunities through research and development and additional sales and marketing resources. Unless we successfully penetrate these markets, our core sales growth will likely be limited or may decline.

In 2025, our operating objectives focus on delivering our core and building our future. We expect to execute these objectives by:

- Delivering profitable revenue growth and productivity for customers and shareholders;
- Continuing to focus on capital allocation through:
 - Committing to maintain our investment grade rating;
 - Focusing on reducing our long-term debt;
 - Returning cash to shareholders through dividends and share repurchases; and
 - Accelerating our performance with strategically-aligned mergers and acquisitions;
- Focusing growth initiatives that accelerate our investments in digital, innovation, technology and sustainability;
- Continuing to implement our Transformation Program initiatives that will drive operational excellence, reduce complexity and improve our organizational structure, which includes the focus on 80/20 actions to drive profitable growth; and
- Building a high performance growth culture and delivering on our commitments while living our Win Right values.

CONSOLIDATED RESULTS OF OPERATIONS

The consolidated results of operations were as follows:

<i>In millions</i>	Years ended December 31			% / point change	
	2024	2023	2022	2024 vs 2023	2023 vs 2022
Net sales	\$ 4,082.8	\$ 4,104.5	\$ 4,121.8	(0.5) %	(0.4) %
Cost of goods sold	2,484.0	2,585.3	2,757.2	(3.9) %	(6.2) %
Gross profit	1,598.8	1,519.2	1,364.6	5.2 %	11.3 %
<i>% of net sales</i>	39.2 %	37.0 %	33.1 %	2.2 pts	3.9 pts
Selling, general and administrative	701.4	680.2	677.1	3.1 %	0.5 %
<i>% of net sales</i>	17.2 %	16.6 %	16.4 %	0.6 pts	0.2 pts
Research and development	93.6	99.8	92.2	(6.2) %	8.2 %
<i>% of net sales</i>	2.3 %	2.4 %	2.2 %	(0.1) pts	0.2 pts
Operating income	803.8	739.2	595.3	8.7 %	24.2 %
<i>% of net sales</i>	19.7 %	18.0 %	14.4 %	1.7 pts	3.6 pts
Net interest expense	88.6	118.3	61.8	(25.1) %	91.4 %
Other (income) expense	(3.7)	2.0	(17.1)	N.M.	N.M.
Income from continuing operations before income taxes	718.9	618.9	550.6	16.2 %	12.4 %
Provision (benefit) for income taxes	93.3	(4.0)	67.4	N.M.	N.M.
<i>Effective tax rate</i>	13.0 %	(0.6)%	12.2 %	13.6 pts	(12.8) pts

N.M. Not Meaningful

Net sales

The components of the consolidated net sales change were as follows:

	2024 vs 2023	2023 vs 2022
Volume	(2.3)%	(11.3)%
Price	1.9	6.4
Core growth	(0.4)	(4.9)
Acquisition/Divestiture	(0.1)	4.4
Currency	—	0.1
Total	(0.5)%	(0.4)%

The 0.5 percent decrease in consolidated net sales in 2024 from 2023 was primarily the result of:

- decreased sales volume in our residential flow and industrial solutions businesses within our Flow segment compared to the prior year;
- decreased sales volume in our Water Solutions segment compared to the prior year, in addition to a business exit in our residential business in 2024 and the completion of a large project in 2023 within our commercial business that did not recur in 2024; and
- a product line exit in our Pool segment that occurred in 2024.

This decrease was partially offset by:

- increased selling prices across all of our segments to mitigate inflationary cost increases;
- increased sales volume in our commercial flow business within our Flow segment compared to the prior year;

- increased sales volume within our Pool segment due to higher demand compared to the prior year; and
- increased sales due to the acquisition of G & F Manufacturing completed in the fourth quarter of 2024.

Gross profit

The 2.2 percentage point increase in gross profit as a percentage of net sales in 2024 from 2023 was primarily the result of:

- increases in selling prices to mitigate impacts of inflationary costs; and
- increased productivity mainly driven by transformation initiatives.

This increase was partially offset by:

- inflationary cost increases related to labor costs and certain raw materials; and
- asset impairment and write-offs of \$11.3 million recorded in 2024, compared to \$7.0 million recorded in 2023.

Selling, general and administrative (“SG&A”)

The 0.6 percentage point increase in SG&A expense as a percentage of net sales in 2024 from 2023 was driven by:

- transformation costs of \$52.0 million in 2024, compared to \$44.3 million in 2023;
- restructuring costs of \$34.4 million in 2024, compared to \$9.1 million in 2023; and
- asset impairment charges of \$6.3 million in 2024, compared to \$0.9 million in 2023.

This increase was partially offset by:

- a reduction in our legal accrual of \$7.5 million in 2024, compared to an increase in our legal accrual of \$2.2 million in 2023.

Net interest expense

The 25.1 percent decrease in net interest expense in 2024 from 2023 was the result of:

- lower variable-rate debt compared to the prior year.

Provision for income taxes

The 13.6 percentage point increase in the effective tax rate in 2024 from 2023 was primarily due to:

- favorable impacts in the prior year that did not recur in the current year, including worthless stock deductions related to exiting certain businesses in our Water Solutions segment and increases in tax basis of assets located in foreign jurisdictions;
- withholding taxes primarily related to the repatriation of earnings in 2024 which did not occur in 2023; and
- the unfavorable mix of global earnings.

This increase was partially offset by:

- the favorable impact of discrete items that occurred during 2024 primarily related to changes in uncertain tax positions.

2023 Comparison with 2022

A discussion of changes in our consolidated results of operations, segment results of operations and liquidity and capital resources from the year ended December 31, 2023 to December 31, 2022 can be found in Part II, ITEM 7, Management's Discussion and Analysis of Financial Condition and Results of Operations of our Annual Report on Form 10-K for the year ended December 31, 2023, which was filed with the SEC on February 20, 2024. However, such discussion is not incorporated by reference into, and does not constitute a part of, this Annual Report on Form 10-K.

SEGMENT RESULTS OF OPERATIONS

The summary that follows provides a discussion of the results of operations of our three reportable segments (Flow, Water Solutions and Pool). Each of these segments comprises various product offerings that serve multiple end users.

We evaluate performance based on net sales and reportable segment income ("segment income") and use certain ratios, particularly return on sales, to measure performance of our reportable segments. Segment income represents operating income of each reportable segment inclusive of equity income of unconsolidated subsidiaries and exclusive of intangible amortization, certain acquisition related expenses, costs of restructuring and transformation activities, impairments, legal accrual adjustments and settlements and other unusual non-operating items.

Flow

The net sales and segment income for Flow were as follows:

<i>In millions</i>	Years ended December 31			% / point change	
	2024	2023	2022	2024 vs 2023	2023 vs 2022
Net sales	\$ 1,514.0	\$ 1,582.1	\$ 1,500.8	(4.3) %	5.4 %
Segment income	318.1	282.3	242.3	12.7 %	16.5 %
<i>% of net sales</i>	<i>21.0 %</i>	<i>17.8 %</i>	<i>16.1 %</i>	<i>3.2 pts</i>	<i>1.7 pts</i>

Net sales

The components of the change in Flow net sales were as follows:

	2024 vs 2023	2023 vs 2022
Volume	(6.0)%	(2.0)%
Price	1.7	7.1
Core growth	(4.3)	5.1
Currency	—	0.3
Total	(4.3)%	5.4 %

The 4.3 percent decrease in net sales for Flow in 2024 from 2023 was primarily the result of:

- decreased sales volume in our residential flow and industrial solutions businesses compared to the prior year.

The decrease was partially offset by:

- increased selling prices to mitigate inflationary cost increases; and
- increased sales volume in our commercial flow business compared to the prior year.

Segment income

The components of the change in Flow segment income as a percentage of net sales from the prior period were as follows:

	2024	2023
Volume/Price	2.5 pts	5.6 pts
Currency	—	(0.1)
Inflation	(2.3)	(5.6)
Productivity	3.0	1.8
Total	3.2 pts	1.7 pts

The 3.2 percentage point increase in segment income for Flow as a percentage of net sales in 2024 from 2023 was primarily the result of:

- increased productivity mainly driven by transformation initiatives; and
- increased selling prices to mitigate impacts of inflation.

This increase was partially offset by:

- inflationary cost increases related to labor costs and certain raw materials.

Water Solutions

The net sales and segment income for Water Solutions were as follows:

In millions	Years ended December 31			% / point change	
	2024	2023	2022	2024 vs 2023	2023 vs 2022
Net sales	\$ 1,131.0	\$ 1,177.2	\$ 986.8	(3.9) %	19.3 %
Segment income	255.1	247.6	149.0	3.0 %	66.2 %
% of net sales	22.6 %	21.0 %	15.1 %	1.6 pts	5.9 pts

Net sales

The components of the change in Water Solutions net sales were as follows:

	2024 vs 2023	2023 vs 2022
Volume	(4.8)%	(2.0)%
Price	1.2	3.1
Core growth	(3.6)	1.1
Acquisition/Divestiture	(0.1)	18.5
Currency	(0.2)	(0.3)
Total	(3.9)%	19.3 %

The 3.9 percent decrease in net sales for Water Solutions in 2024 from 2023 was primarily the result of:

- decreased sales volume compared to the prior year, in addition to the completion of a large project in 2023 within our commercial business that did not recur in 2024;
- unfavorable foreign currency effects compared to the prior year; and
- a business exit in our residential business that occurred in 2024.

This decrease was partially offset by:

- increased selling prices to mitigate inflationary cost increases.

Segment income

The components of the change in Water Solutions segment income as a percentage of net sales from the prior period were as follows:

	2024	2023
Volume/Price/Acquisition/Divestiture	1.3 pts	7.8 pts
Currency	0.1	(0.5)
Inflation	(2.5)	(4.7)
Productivity	2.7	3.3
Total	1.6 pts	5.9 pts

The 1.6 percentage point increase in segment income for Water Solutions as a percentage of net sales in 2024 from 2023 was primarily the result of:

- increased productivity mainly driven by transformation initiatives; and
- increased selling prices to mitigate impacts of inflation.

This increase was partially offset by:

- inflationary cost increases related to labor costs and certain raw materials.

Pool

The net sales and segment income for Pool were as follows:

In millions	Years ended December 31			% / point change	
	2024	2023	2022	2024 vs 2023	2023 vs 2022
Net sales	\$ 1,436.1	\$ 1,343.6	\$ 1,632.7	6.9 %	(17.7) %
Segment income	476.5	417.0	462.1	14.3 %	(9.8) %
% of net sales	33.2 %	31.0 %	28.3 %	2.2 pts	2.7 pts

Net sales

The components of the change in Pool net sales were as follows:

	2024 vs 2023	2023 vs 2022
Volume	4.1 %	(25.2)%
Price	2.9	7.6
Core growth	7.0	(17.6)
Acquisition/Divestiture	(0.2)	—
Currency	0.1	(0.1)
Total	6.9 %	(17.7)%

The 6.9 percent increase in net sales for Pool in 2024 from 2023 was primarily the result of:

- increased sales volume due to higher demand compared to the prior year;
- increased selling prices to mitigate inflationary cost increases; and
- increased sales due to the acquisition of G & F Manufacturing completed in the fourth quarter of 2024.

This increase was partially offset by:

- a product line exit that occurred in 2024.

Segment income

The components of the change in Pool segment income as a percentage of net sales from the prior period were as follows:

	2024	2023
Volume/Price/Acquisition/Divestiture	2.2 pts	5.3 pts
Inflation	(1.7)	(2.9)
Productivity	1.7	0.3
Total	2.2 pts	2.7 pts

The 2.2 percentage point increase in segment income for Pool as a percentage of net sales in 2024 from 2023 was primarily the result of:

- increased selling prices to mitigate impacts of inflation; and
- increased productivity driven by transformation initiatives.

This increase was partially offset by:

- inflationary cost increases related to labor costs and certain raw materials.

BACKLOG OF ORDERS BY SEGMENT

In millions	December 31			
	2024	2023	\$ change	% change
Flow	\$ 352.3	\$ 390.1	\$(37.8)	(9.7)%
Water Solutions	68.9	108.5	(39.6)	(36.5)%
Pool	190.0	239.7	(49.7)	(20.7)%
Total	\$ 611.2	\$ 738.3	\$(127.1)	(17.2)%

The majority of our backlog is short cycle in nature with shipments within one year from when a customer places an order, and a substantial portion of our revenues has historically resulted from orders received and products delivered in the same month. A portion of our backlog, particularly from orders for major capital projects, can take more than one year from order to delivery depending on the size and type of order. We record, as part of our backlog, all orders from external customers, which represent firm commitments, and are supported by a purchase order or other legitimate contract. Our backlog of orders is dependent upon when customers place orders and is not necessarily an indicator of our expected results for our 2025 net sales. The decrease in our overall backlog from the prior year was primarily driven by our backlog trending down to more historical levels as a result of increased manufacturing capacity and improved lead times within each of our reportable segments as well as timing of delivery of orders associated with certain advance sale (“early buy”) programs within our Pool segment.

LIQUIDITY AND CAPITAL RESOURCES

We generally fund cash requirements for working capital, capital expenditures, equity investments, acquisitions, debt repayments, dividend payments and share repurchases from cash generated from operations, availability under existing committed revolving credit facilities and in certain instances, public and private debt and equity offerings. Our primary revolving credit facility has generally been adequate for these purposes, although we have negotiated additional credit facilities or completed debt and equity offerings as needed to allow us to complete acquisitions.

We experience seasonal cash flows primarily due to seasonal demand in a number of markets. Consistent with historical trends, we experienced seasonal cash usage in the first quarter of 2024 and drew on our revolving credit facility to fund our operations. This cash usage reversed in the second quarter of 2024 as the seasonality of our businesses peaked and generated significant cash to fund our operations. In the second half of 2024, we funded our operations using our strong cash flow and revolving credit facility.

End-user demand for pool equipment in the Pool segment, water solution products in the Water Solutions segment, and residential water supply and agricultural products within the Flow segment follows warm weather trends, with seasonal highs ranging from April to September. The magnitude of the sales spike has historically been partially mitigated by employing some advance sale “early buy” programs (generally including extended payment terms and/or additional discounts). Demand for residential and agricultural water systems is also impacted by weather patterns, particularly by temperature, heavy flooding and droughts.

On December 2, 2024, as part of our Pool reportable segment, we completed the acquisition of G & F Manufacturing for approximately \$116.0 million in cash, net of cash acquired, including an upfront cash payment of \$108.0 million. We funded the purchase price for this acquisition with cash on hand.

Summary of Cash Flows

<i>In millions</i>	Years ended December 31		
	2024	2023	2022
Cash provided by (used for):			
Operating activities of continuing operations	\$ 766.9	\$ 620.8	\$ 364.3
Investing activities	(187.6)	(85.4)	(1,582.8)
Financing activities	(636.7)	(468.1)	1,232.7

Operating activities

In 2024, net cash provided by operating activities of continuing operations primarily reflects net income from continuing operations, net of non-cash depreciation, definite-lived intangible amortization and asset impairment, of \$757.8 million.

In 2023, net cash provided by operating activities of continuing operations primarily reflects net income from continuing operations, net of non-cash depreciation, definite-lived intangible amortization, asset impairment and deferred income taxes, of \$653.1 million. Additionally, we had a cash outflow of \$61.3 million as a result of changes in net working capital, primarily due to an increase in accounts receivable and decreases in accounts payable and other current liability balances, partially offset by lower inventory compared to December 31, 2022. Decreases in inventory and accounts payable were primarily related to supply chain efficiencies and improved lead times.

Investing activities

Net cash used for investing activities in 2024 primarily reflects net cash paid of \$108.0 million for the acquisition of G & F Manufacturing, capital expenditures of \$74.4 million and cash paid upon the settlement of net investment hedges of \$5.8 million.

Net cash used for investing activities in 2023 primarily reflects capital expenditures of \$76.0 million and cash paid upon the settlement of net investment hedges of \$18.5 million, partially offset by proceeds from the sale of property and equipment of \$5.6 million.

Financing activities

In 2024, net cash used for financing activities primarily relates to the repayment of \$200.0 million of term loans under the Senior Credit Facility (as defined below), \$162.5 million of principal payments on the Term Loan Facility (as defined below), dividend payments of \$152.3 million and share repurchases of \$150.0 million.

In 2023, net cash used for financing activities primarily relates to net repayments of revolving long-term debt of \$320.0 million and dividend payments of \$145.2 million.

Free Cash Flow

In addition to measuring our cash flow generation or usage based upon operating, investing and financing classifications included in the Consolidated Statements of Cash Flows, we also measure our free cash flow. We have a long-term goal to consistently generate free cash flow that is equal to 100 percent conversion of net income. Free cash flow is a non-U.S. GAAP financial measure that we use to assess our cash flow performance. We believe free cash flow is an important measure of liquidity because it provides us and our investors a measurement of cash generated from operations that is available to pay dividends, repurchase shares and repay debt. In addition, free cash flow is used as a criterion to measure and pay compensation-based incentives. Our measure of free cash flow may not be comparable to similarly titled measures reported by other companies.

The following table is a reconciliation of free cash flow:

<i>In millions</i>	Years ended December 31		
	2024	2023	2022
Net cash provided by operating activities of continuing operations	\$ 766.9	\$ 620.8	\$ 364.3
Capital expenditures of continuing operations	(74.4)	(76.0)	(85.2)
Proceeds from sale of property and equipment of continuing operations	0.6	5.6	4.1
Free cash flow from continuing operations	\$ 693.1	\$ 550.4	\$ 283.2
Net cash used for operating activities of discontinued operations	(0.2)	(1.6)	(1.0)
Free cash flow	\$ 692.9	\$ 548.8	\$ 282.2

Debt and Capital

Pentair, Pentair Finance S.à r.l (“PFSA”) and Pentair, Inc. are parties to a credit agreement (the “Senior Credit Facility”), with Pentair as guarantor and PFSA and Pentair, Inc. as borrowers, providing for a \$900.0 million senior unsecured revolving credit facility. During 2024, PFSA repaid \$200.0 million of term loans under the Senior Credit Facility. The revolving credit facility has a maturity date of December 16, 2026. Borrowings under the Senior Credit Facility bear interest at a rate equal to an alternate base rate, adjusted term secured overnight financing rate, adjusted euro interbank offered rate, adjusted daily simple secured overnight financing rate or central bank rate, plus, in each case, an applicable margin. The applicable margin is based on, at PFSA’s election, Pentair’s leverage level or PFSA’s public credit rating.

As of December 31, 2024, total availability under the Senior Credit Facility was \$890.5 million. In addition, PFSA has the option to request to increase the revolving credit facility and/or to enter into one or more additional tranches of term loans in an aggregate amount of up to \$300.0 million, subject to customary conditions, including the commitment of the participating lenders.

In addition, Pentair and PFSA are parties to a senior unsecured term loan facility (the “Term Loan Facility”), with PFSA, as borrower, Pentair, as guarantor, providing for an aggregate principal amount of \$1.0 billion. The Term Loan Facility has a maturity date of July 28, 2027, with required quarterly installment payments of \$6.3 million which began on the last day of the third quarter of 2023 and increased to \$12.5 million on the last day of the third quarter of 2024. During 2024, PFSA repaid the remaining \$162.5 million of quarterly installments on the Term Loan Facility, such that PFSA is not required to make any further quarterly installment payments. As of December 31, 2024, the remaining obligation of \$825.0 million matures on July 28, 2027. The Term Loan Facility bears interest at a rate equal to an alternate base rate, adjusted term secured overnight financing rate, or adjusted daily simple secured overnight financing rate, plus, in each case, an applicable margin. The applicable margin is based on, at PFSA’s election, Pentair’s leverage level or PFSA’s public credit rating.

Our debt agreements contain various financial covenants, but the most restrictive covenants are contained in the Senior Credit Facility and the Term Loan Facility. The Senior Credit Facility and the Term Loan Facility contain covenants requiring us not to permit (i) the ratio of our consolidated debt (net of our consolidated unrestricted cash and cash equivalents in excess of \$5.0 million but not to exceed \$250.0 million) to our consolidated net income (excluding, among other things, non-cash gains and losses) before interest, taxes, depreciation, amortization and non-cash share-based compensation expense (“EBITDA”) on the last day of any period of four consecutive fiscal quarters (each, a “testing period”) to exceed 3.75 to 1.00 (or, at PFSA’s election and subject to certain conditions, 4.25 to 1.00 for four testing periods in connection with certain material acquisitions) (the “Leverage Ratio”) and (ii) the ratio of our EBITDA to our consolidated interest expense, for the same period to be less than 3.00 to 1.00 as of the end of each fiscal quarter. For purposes of the Leverage Ratio, the Senior Credit Facility and the Term Loan Facility provide for the calculation of EBITDA giving pro forma effect to certain acquisitions, divestitures and liquidations during the period to which such calculation relates.

In addition to the Senior Credit Facility and the Term Loan Facility, we have various other credit facilities with an aggregate availability of \$20.8 million, of which there were no outstanding borrowings at December 31, 2024. Borrowings under these credit facilities bear interest at variable rates.

We have \$19.3 million of senior notes maturing in the next twelve months. We classified this debt as long-term as of December 31, 2024 as we have the intent and ability to refinance such obligations on a long-term basis under the revolving credit facility under the Senior Credit Facility.

As of December 31, 2024, we had \$89.5 million of cash held in certain countries in which the ability to repatriate is limited due to local regulations or significant potential tax consequences.

Authorized shares

Our authorized share capital consists of 426.0 million ordinary shares with a par value of \$0.01 per share.

Share repurchases

In December 2020, the Board of Directors authorized the repurchase of our ordinary shares up to a maximum dollar limit of \$750.0 million. This authorization expires on December 31, 2025.

During the year ended December 31, 2023, no ordinary shares were repurchased. During the year ended December 31, 2024, we repurchased 1.6 million of our ordinary shares for \$150.0 million. As of December 31, 2024, we had \$450.0 million available for share repurchases under this authorization.

Dividends

On December 16, 2024, the Board of Directors approved a regular quarterly cash dividend of \$0.25 per share that was paid on February 7, 2025 to shareholders of record at the close of business on January 24, 2025. This dividend reflects a 9 percent increase in the Company's regular cash dividend rate. The balance of dividends payable included in *Other current liabilities* on our Consolidated Balance Sheets was \$41.2 million at December 31, 2024. Dividends paid per ordinary share were \$0.92, \$0.88 and \$0.84 for the years ended December 31, 2024, 2023 and 2022, respectively.

Under Irish law, the payment of future cash dividends and repurchases of shares may be paid only out of Pentair plc's "distributable reserves" on its statutory balance sheet. Pentair plc is not permitted to pay dividends out of share capital, which includes share premiums. Distributable reserves may be created through the earnings of the Irish parent company and through a reduction in share capital approved by the Irish High Court. Distributable reserves are not linked to a U.S. GAAP reported amount (e.g., retained earnings). Our distributable reserve balance was \$6.8 billion and \$6.9 billion as of December 31, 2024 and 2023, respectively.

Supplemental guarantor information

Pentair plc (the "Parent Company Guarantor"), fully and unconditionally, guarantees the senior notes of PFSA (the "Subsidiary Issuer"). The Subsidiary Issuer is a Luxembourg private limited liability company and 100 percent-owned subsidiary of the Parent Company Guarantor.

The Parent Company Guarantor is a holding company established to own directly and indirectly substantially all of its operating and other subsidiaries. The Subsidiary Issuer is a holding company formed to own directly and indirectly substantially all of its operating and other subsidiaries and to issue debt securities, including the senior notes. The Parent Company Guarantor's principal source of cash flow, including cash flow to make payments on the senior notes pursuant to the guarantees, is dividends from its subsidiaries. The Subsidiary Issuer's principal source of cash flow is interest income from its subsidiaries. None of the subsidiaries of the Parent Company Guarantor or the Subsidiary Issuer is under any direct obligation to pay or otherwise fund amounts due on the senior notes or the guarantees, whether in the form of dividends, distributions, loans or other payments. In addition, there may be statutory and regulatory limitations on the payment of dividends from certain subsidiaries of the Parent Company Guarantor or the Subsidiary Issuer. If such subsidiaries are unable to transfer funds to the Parent Company Guarantor or the Subsidiary Issuer and sufficient cash or liquidity is not otherwise available, the Parent Company Guarantor or the Subsidiary Issuer may not be able to make principal and interest payments on their outstanding debt, including the senior notes or the guarantees.

The following table presents summarized financial information as of December 31, 2024 for the Parent Company Guarantor and Subsidiary Issuer on a combined basis after elimination of (i) intercompany transactions and balances among the guarantors and issuer and (ii) equity in earnings from and investments in any subsidiary that is a non-Guarantor or issuer.

<i>In millions</i>	December 31, 2024	
Current assets ⁽¹⁾	\$	1.3
Noncurrent assets ⁽²⁾		2,551.7
Current liabilities ⁽³⁾		1,893.1
Noncurrent liabilities ⁽⁴⁾		1,828.6

⁽¹⁾ No assets due from non-guarantor subsidiaries were included.

⁽²⁾ Includes assets due from non-guarantor subsidiaries of \$2,547.3 million.

⁽³⁾ Includes liabilities due to non-guarantor subsidiaries of \$1,843.0 million.

⁽⁴⁾ Includes liabilities due to non-guarantor subsidiaries of \$151.5 million.

The Parent Company Guarantor and Subsidiary Issuer do not have material results of operations on a combined basis.

Material Cash Requirements From Contractual Obligations and Commitments

We expect to continue to have sufficient cash and borrowing capacity to support working capital needs and capital expenditures, to pay interest and service debt and to pay dividends to shareholders quarterly. We believe we have the ability to meet our short-term and long-term cash requirements by using available cash and internally generated funds and to borrow under our committed and uncommitted credit facilities. The following summarizes our material cash requirements from significant contractual obligations and purchase commitments that impact our liquidity as of December 31, 2024:

<i>In millions</i>		Next Twelve Months	Greater Than Twelve Months	Total
Debt obligations (Note 8)	\$	28.6	\$ 1,634.5	\$ 1,663.1
Interest obligations on fixed-rate debt		42.5	237.2	279.7
Operating lease obligations, net of sublease rentals (Note 15)		31.2	110.6	141.8
Pension and other post-retirement plan benefit payments (Note 11)		9.0	72.7	81.7
Other purchase obligations		45.4	11.3	56.7
Total contractual obligations, net	\$	156.7	\$ 2,066.3	\$ 2,223.0

Other purchase obligations primarily include service and marketing contracts as well as commitments for raw materials to be utilized in the normal course of business. For purposes of the above table, arrangements are considered purchase obligations if a contract specifies all significant terms, including fixed or minimum quantities to be purchased, a pricing structure and approximate timing of the transaction.

In addition to the significant contractual obligations described above, we will incur annual interest expense on outstanding variable rate debt. As of December 31, 2024, variable interest rate debt was \$843.8 million at a weighted average interest rate of 5.84%. Inclusive of our interest rate swaps and collars, our weighted average interest rate on our variable rate debt was 5.59% as of December 31, 2024. Refer to ITEM 8, Note 9 of the Notes to Consolidated Financial Statements for additional information regarding our interest rate swaps and collars.

The total gross liability for uncertain tax positions at December 31, 2024 was estimated to be \$6.0 million. We record penalties and interest related to unrecognized tax benefits in *Provision (benefit) for income taxes* and *Net interest expense*, respectively, which is consistent with our past practices. As of December 31, 2024, we had recorded \$3.9 million related to the possible payment of interest and recorded no liabilities for the possible payment of penalties.

COMMITMENTS AND CONTINGENCIES

We have been, and in the future may be, made parties to a number of actions filed or have been, and in the future may be, given notice of potential claims relating to the conduct of our business, including those relating to commercial, regulatory or contractual disputes with suppliers, authorities, customers or parties to acquisitions and divestitures, intellectual property matters, environmental, asbestos, safety and health matters, product liability, the use or installation of our products, consumer matters, and employment and labor matters.

While we believe that a material impact on our consolidated financial position, results of operations or cash flows from any such future claims or potential claims is unlikely, given the inherent uncertainty of litigation, a remote possibility exists that a future adverse ruling or unfavorable development could result in future charges that could have a material impact. We do and will continue to periodically reexamine our estimates of probable liabilities and any associated expenses and receivables and make appropriate adjustments to such estimates based on experience and developments in litigation and applicable accounting rules. As a result, the current estimates of the potential impact on our consolidated financial position, results of operations and cash flows for the proceedings and claims described in ITEM 8, Note 15 of the Notes to Consolidated Financial Statements could change in the future.

Product liability claims

We are subject to various product liability lawsuits and personal injury claims. A substantial number of these lawsuits and claims are insured and accrued for by Penwald, our captive insurance subsidiary. See discussion in ITEM 1 and ITEM 8, Note 1 of the Notes to Consolidated Financial Statements — Insurance subsidiary. Penwald records a liability for these claims based on actuarial projections of ultimate losses. For all other claims, accruals covering the claims are recorded, on an undiscounted basis, when it is probable that a liability has been incurred and the amount of the liability can be reasonably estimated based on existing information. The accruals are adjusted periodically as additional information becomes available. We have not experienced significant unfavorable trends in either the severity or frequency of product liability lawsuits or personal injury claims.

Stand-by letters of credit, bank guarantees and bonds

In certain situations, Tyco International Ltd., Pentair Ltd.'s former parent company ("Tyco"), guaranteed performance by the flow control business of Pentair Ltd. ("Flow Control") to third parties or provided financial guarantees for financial commitments of Flow Control. In situations where Flow Control and Tyco were unable to obtain a release from these guarantees in connection with the spin-off of Flow Control from Tyco, we will indemnify Tyco for any losses it suffers as a result of such guarantees.

In the ordinary course of business, we are required to commit to bonds, letters of credit and bank guarantees that require payments to our customers for any non-performance. The outstanding face value of these instruments fluctuates with the value of our projects in process and in our backlog. In addition, we issue financial stand-by letters of credit primarily to secure our performance to third parties under self-insurance programs.

As of December 31, 2024 and 2023, the outstanding value of bonds, letters of credit and bank guarantees totaled \$102.1 million and \$124.3 million, respectively.

NEW ACCOUNTING STANDARDS

See ITEM 8, Note 1 of the Notes to Consolidated Financial Statements, included in this Form 10-K, for information pertaining to accounting standards recently adopted or to be adopted in the future.

CRITICAL ACCOUNTING POLICIES

We have adopted various accounting policies to prepare the consolidated financial statements in accordance with U.S. GAAP. Our significant accounting policies are more fully described in ITEM 8, Note 1 of the Notes to Consolidated Financial Statements. Certain accounting policies require the application of significant judgment by management in selecting the appropriate assumptions for calculating financial estimates. By their nature, these judgments are subject to an inherent degree of uncertainty. These judgments are based on our historical experience, terms of existing contracts, our observance of trends in the industry and information available from other outside sources, as appropriate. We consider an accounting estimate to be critical if:

- it requires us to make assumptions about matters that were uncertain at the time we were making the estimate; and
- changes in the estimate or different estimates that we could have selected which would have had a material impact on our financial condition or results of operations.

Our critical accounting estimates include the following:

Impairment of goodwill and indefinite-lived intangibles***Goodwill***

Goodwill represents the excess of the cost of acquired businesses over the net of the fair value of identifiable tangible net assets and identifiable intangible assets purchased and liabilities assumed.

We test our goodwill for impairment at least annually during the fourth quarter or more frequently if events or changes in circumstances indicate that the asset might be impaired. We perform our annual or interim goodwill impairment test by comparing the fair value of the relevant reporting unit with its carrying amount. We would recognize an impairment charge for the amount by which the carrying amount exceeds the reporting unit's fair value; however, the loss recognized would not exceed the total amount of goodwill allocated to that reporting unit.

We have the option to perform a qualitative assessment to determine whether it is necessary to perform the quantitative goodwill impairment test. However, we may elect to perform the quantitative goodwill impairment test even if no indications of a potential impairment exist.

During 2024, a qualitative assessment was performed. As a result, it was determined that it was more likely than not that the fair value of the reporting units exceeded their respective carrying values. Factors considered in the analysis included the 2023 discounted cash flow fair value assessment of the reporting units and the calculated excess fair value over carrying amount, financial performance, forecasts and trends, market capitalization, regulatory and environmental issues, macro-economic conditions, industry and market considerations, raw material costs and management stability. We also consider the extent to which each of the adverse events and circumstances identified affect the comparison of the respective reporting unit's fair value with its carrying amount. We place more weight on the events and circumstances that most affect the respective reporting unit's

fair value or the carrying amount of its net assets. We consider positive and mitigating events and circumstances that may affect its determination of whether it is more likely than not that the fair value exceeds the carrying amount.

During 2023, a quantitative assessment was performed. The fair value of each reporting unit was determined using a discounted cash flow analysis and market approach. Projecting discounted future cash flows requires us to make significant estimates regarding future revenues and expenses, projected capital expenditures, changes in working capital and the appropriate discount rate. Use of the market approach consists of comparisons to comparable publicly-traded companies that are similar in size and industry. For the 2023 annual impairment test, the estimated fair value significantly exceeded the carrying value in each of our reporting units, therefore, no impairment charge was required. The non-recurring fair value measurement is a “Level 3” measurement under the fair value hierarchy described in ITEM 8, Note 9 of the Notes to Consolidated Financial Statements.

Identifiable intangible assets

Our primary identifiable intangible assets include: customer relationships, trade names, proprietary technology and patents. Identifiable intangibles with finite lives are amortized and those identifiable intangibles with indefinite lives are not amortized. Identifiable intangible assets that are subject to amortization are evaluated for impairment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. No impairment charges associated with identifiable intangibles with finite lives were recognized in 2024 or 2023.

Identifiable intangible assets not subject to amortization are tested for impairment annually or more frequently if events warrant. We complete our annual impairment test the first day of the fourth quarter each year for those identifiable assets not subject to amortization. The impairment test for trade names consists of a comparison of the fair value of the trade name with its carrying value. Fair value is measured using the relief-from-royalty method. This method assumes the trade name has value to the extent that the owner is relieved of the obligation to pay royalties for the benefits received from them. This method requires us to estimate the future revenue for the related brands, the appropriate royalty rate and the weighted average cost of capital. The non-recurring fair value measurement is a “Level 3” measurement under the fair value hierarchy. No impairment charges were recognized in 2024 or 2023 as a result of our annual impairment assessment.

Pension and other post-retirement plans

We sponsor U.S. and non-U.S. defined-benefit pension and other post-retirement plans. The amounts recognized in our consolidated financial statements related to our defined-benefit pension and other post-retirement plans are determined from actuarial valuations. Inherent in these valuations are assumptions, including: expected return on plan assets, discount rates, rate of increase in future compensation levels and health care cost trend rates. These assumptions are updated annually and are disclosed in ITEM 8, Note 11 to the Notes to Consolidated Financial Statements. Differences in actual experience or changes in assumptions may affect our pension and other post-retirement obligations and future expense.

We recognize changes in the fair value of plan assets and net actuarial gains or losses for pension and other post-retirement benefits annually in the fourth quarter each year (“mark-to-market adjustment”) and, if applicable, in any quarter in which an interim re-measurement is triggered. Net actuarial gains and losses occur when the actual experience differs from any of the various assumptions used to value our pension and other post-retirement plans or when assumptions change as they may each year. The primary factors contributing to actuarial gains and losses each year are (1) changes in the discount rate used to value pension and other post-retirement benefit obligations as of the measurement date and (2) differences between the expected and the actual return on plan assets. This accounting method also results in the potential for volatile and difficult to forecast mark-to-market adjustments. Mark-to-market adjustments resulted in pre-tax gains of \$5.3 million and \$17.5 million in 2024 and 2022, respectively, and a pre-tax loss of \$6.1 million in 2023. The remaining components of pension expense, including service and interest costs and the expected return on plan assets, are recorded on a quarterly basis as ongoing pension expense.

Discount rates

The discount rate reflects the current rate at which the pension liabilities could be effectively settled. The discount rate was determined by matching our expected benefit payments to payments from a stream of bonds rated AA or higher available in the marketplace. There are no known or anticipated changes in our discount rate assumptions that will impact our pension expense in 2025.

Expected rate of return

The expected rate of return is designed to be a long-term assumption that may be subject to considerable year-to-year variance from actual returns. In developing the expected long-term rate of return, we considered our historical returns, with consideration given to forecasted economic conditions, our asset allocations, input from external consultants and broader long-term market indices.

Sensitivity to changes in key assumptions

A 100 basis point increase or decrease in the discount rates used to measure our U.S. defined-benefit pension and other post-retirement plans would result in an approximate decrease of \$5 million or increase of \$6 million in our total projected benefit obligation. A 100 basis point increase or decrease in the assumed rate of return on pension assets or discount rates for our U.S. pension and other post-retirement benefit plans would result in an immaterial change in our ongoing pension expense. These estimates exclude any potential mark-to-market adjustments.

Loss contingencies

Accruals are recorded for various contingencies including legal proceedings, self-insurance and other claims that arise in the normal course of business. The accruals are based on judgment, the probability of losses and, where applicable, the consideration of opinions of internal and/or external legal counsel and actuarial estimates. Additionally, we record receivables from third party insurers when recovery has been determined to be probable.

Income taxes

In determining taxable income for financial statement purposes, we must make certain estimates and judgments. These estimates and judgments affect the calculation of certain tax liabilities and the determination of the recoverability of certain of the deferred tax assets, which arise from temporary differences between the tax and financial statement recognition of revenue and expense. In evaluating our ability to recover our deferred tax assets we consider all available positive and negative evidence including our past operating results, the existence of cumulative losses in the most recent years and our forecast of future taxable income. In estimating future taxable income, we develop assumptions including the amount of future pre-tax operating income, the reversal of temporary differences and the implementation of feasible and prudent tax planning strategies. These assumptions require significant judgment about the forecasts of future taxable income and are consistent with the plans and estimates we are using to manage the underlying businesses.

We currently have recorded valuation allowances that we will maintain until when, in the opinion of management, it is more likely than not that some portion or all of the deferred tax assets will be realized. Our income tax expense recorded in the future may be reduced to the extent of decreases in our valuation allowances. The realization of our remaining deferred tax assets is primarily dependent on future taxable income in the appropriate jurisdiction. Any reduction in future taxable income including but not limited to any future restructuring activities may require that we record an additional valuation allowance against our deferred tax assets. An increase in the valuation allowance could result in additional income tax expense in such period and could have a significant impact on our future earnings.

Changes in tax laws and rates could also affect recorded deferred tax assets and liabilities in the future. Management records the effect of a tax rate or law change on the Company's deferred tax assets and liabilities in the period of enactment. Future tax rate or law changes could have a material effect on the Company's financial condition, results of operations or cash flows.

In addition, the calculation of our tax liabilities involves dealing with uncertainties in the application of complex tax regulations in a multitude of jurisdictions across our global operations. We perform reviews of our income tax positions on a quarterly basis and accrue for uncertain tax positions. We recognize potential liabilities and record tax liabilities for anticipated tax audit issues in the tax jurisdictions in which we operate based on our estimate of whether, and the extent to which, additional taxes will be due. These tax liabilities are reflected net of related tax loss carryforwards. As events change or resolution occurs, these liabilities are adjusted, such as in the case of audit settlements with taxing authorities. The ultimate resolution may result in a payment that is materially different from our current estimate of the tax liabilities. If our estimate of tax liabilities proves to be less than the ultimate assessment, an additional charge to expense would result. If payment of these amounts ultimately proves to be less than the recorded amounts, the reversal of the liabilities would result in tax benefits being recognized in the period when we determine the liabilities are no longer necessary.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Market risk is the potential economic loss that may result from adverse changes in the fair value of financial instruments. We are exposed to various market risks, including changes in interest rates and foreign currency rates. Periodically, we use derivative financial instruments to manage or reduce the impact of changes in interest rates and foreign currency rates. Counterparties to all derivative contracts are major financial institutions. All instruments are entered into for other than trading purposes. The major accounting policies and utilization of these instruments is described more fully in ITEM 8, Note 1 of the Notes to Consolidated Financial Statements.

Interest rate risk

Our debt portfolio as of December 31, 2024, was comprised of debt denominated in U.S. dollars. This debt portfolio is comprised of 49% fixed-rate debt and 51% variable-rate debt. Changes in interest rates have different impacts on the fixed and variable-rate portions of our debt portfolio. A change in interest rates on the fixed portion of the debt portfolio impacts the fair value, but has no impact on interest incurred or cash flows. A change in interest rates on the variable portion of the debt portfolio impacts the interest incurred and cash flows but does not impact the net financial instrument position.

Based on the fixed-rate debt included in our debt portfolio, as of December 31, 2024, a 100 basis point increase or decrease in interest rates would result in approximately a \$42 million decrease or a \$45 million increase in fair value of total fixed rate debt outstanding, respectively.

We manage our exposure to certain interest rate risks related to our variable-rate debt through the use of interest rate swaps and collars. We enter into these agreements to hedge the variability of interest expense and cash flows attributable to changes in interest rates of our variable-rate debt. As of December 31, 2024, we had an aggregate notional amount of \$300.0 million and \$200.0 million in interest rate swaps and collars, respectively, that are designated as cash flow hedges. Refer to ITEM 8, Note 9 of the Notes to Consolidated Financial Statements for additional information regarding our interest rate swaps and collars.

A 100 basis point fluctuation in interest rates associated with our variable-rate debt as of December 31, 2024, inclusive of our interest rate swaps and collars, would result in an approximately \$5 million increase or decrease in interest incurred.

Foreign currency risk

We conduct business in various locations throughout the world and are subject to market risk due to changes in the value of foreign currencies in relation to our reporting currency, the U.S. dollar. Periodically, we use derivative financial instruments to manage these risks. The functional currencies of our foreign operating locations are generally the local currency in the country of domicile. We manage these operating activities at the local level and revenues, costs, assets and liabilities are generally denominated in local currencies, thereby mitigating the risk associated with changes in foreign currency exchange. However, our results of operations and assets and liabilities are reported in U.S. dollars and thus will fluctuate with changes in exchange rates between such local currencies and the U.S. dollar.

From time to time, we may enter into short duration foreign currency contracts to hedge foreign currency risks. As the majority of our foreign currency contracts have an original maturity date of less than one year, there is no material foreign currency risk. At December 31, 2024, there were no outstanding foreign currency derivative contracts. Changes in the fair value of all derivatives are recognized immediately in income unless the derivative qualifies as a hedge of future cash flows. Gains and losses related to a hedge are deferred and recorded in the Consolidated Balance Sheets as a component of *Accumulated other comprehensive loss* and subsequently recognized in the Consolidated Statements of Operations and Comprehensive Income when the hedged item affects earnings.

At December 31, 2024, we had outstanding cross currency swap agreements with a combined notional amount of \$728.5 million. The cross currency swap agreements are accounted for as either cash flow hedges to hedge foreign currency fluctuations on certain intercompany debt, or as net investment hedges to manage our exposure to fluctuations in the Euro-U.S. Dollar exchange rate. The currency risk related to the cross currency swap agreements is measured by estimating the potential impact of a 10% change in the value of the U.S. dollar relative to the Euro. A 10% appreciation or a 10% depreciation of the U.S. dollar relative to the Euro would result in a change in accumulated other comprehensive income of approximately \$68 million. However, the change in other comprehensive income would be offset by decreases or increases in the hedged items on our balance sheet.

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

MANAGEMENT'S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING

Management of Pentair plc and its subsidiaries (the "Company") is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Rules 13a-15(f) and 15d-15(f) of the Securities Exchange Act of 1934. The Company's internal control over financial reporting is designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. The Company's internal control over financial reporting includes those policies and procedures that (1) pertain to maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the Company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of the financial statements in accordance with generally accepted accounting principles and that receipts and expenditures of the Company are being made only in accordance with authorizations of management and directors of the Company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of the Company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of the effectiveness of internal control over financial reporting to future periods are subject to the risk that the controls may become inadequate because of changes in conditions or that the degree of compliance with the policies or procedures may deteriorate.

Management assessed the effectiveness of the Company's internal control over financial reporting as of December 31, 2024. In making this assessment, management used the criteria for effective internal control over financial reporting described in *Internal Control-Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on this assessment, management believes that, as of December 31, 2024, the Company's internal control over financial reporting was effective based on those criteria.

Our independent registered public accounting firm, Deloitte & Touche LLP, has issued an attestation report on the Company's internal control over financial reporting as of December 31, 2024. That attestation report is set forth immediately following this management report.

John L. Stauch
President and Chief Executive Officer

Robert P. Fishman
Executive Vice President, Chief Financial Officer and Chief Accounting Officer

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholders and the Board of Directors of Pentair plc

Opinion on Internal Control over Financial Reporting

We have audited the internal control over financial reporting of Pentair plc and subsidiaries (the “Company”) as of December 31, 2024, based on criteria established in *Internal Control — Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2024, based on criteria established in *Internal Control — Integrated Framework (2013)* issued by COSO.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated financial statements as of and for the year ended December 31, 2024, of the Company and our report dated February 25, 2025, expressed an unqualified opinion on those financial statements.

Basis for Opinion

The Company’s management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying *Management’s Report on Internal Control over Financial Reporting*. Our responsibility is to express an opinion on the Company’s internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control over Financial Reporting

A company’s internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company’s internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company’s assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Deloitte & Touche LLP

Minneapolis, Minnesota
February 25, 2025

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the shareholders and the Board of Directors of Pentair plc

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Pentair plc and subsidiaries (the “Company”) as of December 31, 2024 and 2023, the related consolidated statements of operations and comprehensive income, cash flows and changes in equity, for each of the three years in the period ended December 31, 2024, and the related notes (collectively referred to as the “financial statements”). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2024 and 2023, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2024, in conformity with accounting principles generally accepted in the United States of America.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company’s internal control over financial reporting as of December 31, 2024, based on criteria established in *Internal Control — Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated February 25, 2025, expressed an unqualified opinion on the Company’s internal control over financial reporting.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

Critical Audit Matter

The critical audit matter communicated below is a matter arising from the current-period audit of the financial statements that was communicated or required to be communicated to the audit committee and that (1) relates to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

Income Taxes — Completeness of Uncertain Tax Positions — Refer to Notes 1 and 10 to the financial statements

Critical Audit Matter Description

The Company assesses uncertain tax positions (“UTPs”) based upon an evaluation of available information and records a liability when a position taken or expected to be taken in a tax return does not meet certain measurement or recognition criteria. A tax benefit is recognized only if management believes it is more likely than not that the tax position will be sustained upon examination by the relevant tax authority. Determining the completeness of UTPs is complex and significant judgment is involved in identifying which positions may not meet the required measurement or recognition criteria. As of December 31, 2024, the Company’s recorded UTP balance was \$6.0 million.

The UTP analysis is complex as it includes numerous tax jurisdictions and varying applications of tax laws. Given the multiple jurisdictions in which the Company operates and the complexity of tax regulations, auditing the completeness of UTPs involved a high degree of auditor judgment, and an increased extent of audit effort, including the need to involve our tax specialists.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures to evaluate the completeness of UTPs in material jurisdictions included the following, among others:

- We tested the effectiveness of controls over management’s determination of the existence of UTPs.
- With the assistance of our income tax specialists, we assessed the Company’s determination of the existence of UTPs. In particular, our procedures included:
 - Evaluating the Company’s significant judgments related to completeness of UTPs in material jurisdictions:
 - We performed inquiries of management to assess whether they are aware of any new items or significant changes to the business that would impact the UTP assessment or give rise to new UTPs.
 - We evaluated the following: technical merits of existing UTPs, technical merits of potential UTPs, and significant transactions and their tax implications, including the completeness and accuracy of the underlying data supporting the transactions.
 - We assessed the appropriateness and consistency of management’s methods and assumptions used in identifying UTPs.
 - We evaluated former and ongoing tax audits by tax authorities.
 - We considered changes in and assessed the Company’s interpretation of applicable tax laws.
 - We inspected the Company’s summary of differences between the filed tax returns and the tax provision to obtain an understanding of significant differences. We assessed whether the appropriate UTPs were recorded as well as whether any additional UTPs needed to be considered.

/s/ Deloitte & Touche LLP

Minneapolis, Minnesota
February 25, 2025

We have served as the Company’s auditor since 1977.

Pentair plc and Subsidiaries
Consolidated Statements of Operations and Comprehensive Income

<i>In millions, except per-share data</i>	Years ended December 31		
	2024	2023	2022
Net sales	\$ 4,082.8	\$ 4,104.5	\$ 4,121.8
Cost of goods sold	2,484.0	2,585.3	2,757.2
Gross profit	1,598.8	1,519.2	1,364.6
Selling, general and administrative	701.4	680.2	677.1
Research and development	93.6	99.8	92.2
Operating income	803.8	739.2	595.3
Other expense (income)			
Net interest expense	88.6	118.3	61.8
Other (income) expense	(3.7)	2.0	(17.1)
Income from continuing operations before income taxes	718.9	618.9	550.6
Provision (benefit) for income taxes	93.3	(4.0)	67.4
Net income from continuing operations	625.6	622.9	483.2
Loss from discontinued operations, net of tax	(0.2)	(0.2)	(2.3)
Net income	\$ 625.4	\$ 622.7	\$ 480.9
Comprehensive income, net of tax			
Net income	\$ 625.4	\$ 622.7	\$ 480.9
Changes in cumulative translation adjustment	(65.8)	24.0	(56.4)
Changes in market value of derivative financial instruments, net of tax	33.6	(29.4)	31.3
Comprehensive income	\$ 593.2	\$ 617.3	\$ 455.8
Earnings (loss) per ordinary share			
Basic			
Continuing operations	\$ 3.78	\$ 3.77	\$ 2.93
Discontinued operations	—	—	(0.01)
Basic earnings per ordinary share	\$ 3.78	\$ 3.77	\$ 2.92
Diluted			
Continuing operations	\$ 3.74	\$ 3.75	\$ 2.92
Discontinued operations	—	—	(0.02)
Diluted earnings per ordinary share	\$ 3.74	\$ 3.75	\$ 2.90
Weighted average ordinary shares outstanding			
Basic	165.6	165.1	164.8
Diluted	167.1	166.3	165.6

See accompanying notes to consolidated financial statements.

Pentair plc and Subsidiaries
Consolidated Balance Sheets

<i>In millions, except per-share data</i>	December 31	
	2024	2023
Assets		
Current assets		
Cash and cash equivalents	\$ 118.7	\$ 170.3
Accounts receivable, net of allowances of \$9.1 and \$11.2, respectively	565.2	561.7
Inventories	610.9	677.7
Other current assets	141.3	159.3
Total current assets	1,436.1	1,569.0
Property, plant and equipment, net	358.8	362.0
Other assets		
Goodwill	3,286.6	3,274.6
Intangibles, net	1,033.8	1,042.4
Other non-current assets	331.2	315.3
Total other assets	4,651.6	4,632.3
Total assets	\$ 6,446.5	\$ 6,563.3
Liabilities and Equity		
Current liabilities		
Current maturities of short-term borrowings	\$ 9.3	\$ —
Accounts payable	272.8	278.9
Employee compensation and benefits	116.2	125.4
Other current liabilities	496.8	545.3
Total current liabilities	895.1	949.6
Other liabilities		
Long-term debt	1,638.7	1,988.3
Pension and other post-retirement compensation and benefits	61.6	73.6
Deferred tax liabilities	44.4	40.0
Other non-current liabilities	243.8	294.7
Total liabilities	2,883.6	3,346.2
Commitments and contingencies (Note 15)		
Equity		
Ordinary shares \$0.01 par value, 426.0 authorized, 164.8 and 165.3 issued at December 31, 2024 and 2023, respectively	1.7	1.7
Additional paid-in capital	1,501.7	1,593.6
Retained earnings	2,336.1	1,866.2
Accumulated other comprehensive loss	(276.6)	(244.4)
Total equity	3,562.9	3,217.1
Total liabilities and equity	\$ 6,446.5	\$ 6,563.3

See accompanying notes to consolidated financial statements.

Pentair plc and Subsidiaries
Consolidated Statements of Cash Flows

<i>In millions</i>	Years ended December 31		
	2024	2023	2022
Operating activities			
Net income	\$ 625.4	\$ 622.7	\$ 480.9
Loss from discontinued operations, net of tax	0.2	0.2	2.3
Adjustments to reconcile net income from continuing operations to net cash provided by operating activities of continuing operations			
Equity income of unconsolidated subsidiaries	(1.9)	(2.8)	(1.8)
Depreciation	60.3	59.5	54.1
Amortization	54.3	55.3	52.5
Deferred income taxes	(11.4)	(92.5)	(44.8)
Share-based compensation	39.7	29.1	24.9
Asset impairment and write-offs	17.6	7.9	25.6
Amortization of bridge financing debt issuance costs	—	—	9.0
Pension and other post-retirement expense (benefit)	0.1	12.1	(12.2)
Pension and other post-retirement contributions	(12.0)	(8.7)	(8.8)
Gain on sale of assets	—	(3.4)	(2.3)
Changes in assets and liabilities, net of effects of business acquisitions			
Accounts receivable	(11.2)	(24.4)	30.4
Inventories	53.6	109.6	(187.0)
Other current assets	14.1	(29.1)	(16.5)
Accounts payable	(3.7)	(75.1)	(56.9)
Employee compensation and benefits	(5.0)	17.2	(35.2)
Other current liabilities	(48.7)	(59.5)	46.3
Other non-current assets and liabilities	(4.5)	2.7	3.8
Net cash provided by operating activities of continuing operations	766.9	620.8	364.3
Net cash used for operating activities of discontinued operations	(0.2)	(1.6)	(1.0)
Net cash provided by operating activities	766.7	619.2	363.3
Investing activities			
Capital expenditures	(74.4)	(76.0)	(85.2)
Proceeds from sale of property and equipment	0.6	5.6	4.1
Acquisitions, net of cash acquired	(108.0)	(0.6)	(1,580.9)
(Payments) receipts upon the settlement of net investment hedges	(5.8)	(18.5)	78.9
Other	—	4.1	0.3
Net cash used for investing activities	(187.6)	(85.4)	(1,582.8)
Financing activities			
Net receipts of short-term borrowings	9.3	—	—
Net borrowings (repayments) of revolving long-term debt	9.5	(320.0)	124.5
Proceeds from long-term debt	—	—	1,391.3
Repayments of long-term debt	(362.5)	(12.5)	(88.3)
Debt issuance costs	—	—	(15.8)
Shares issued to employees, net of shares withheld	18.4	9.6	(2.7)
Repurchases of ordinary shares	(150.0)	—	(50.0)
Dividends paid	(152.3)	(145.2)	(138.6)
(Payments) receipts upon the settlement of cross currency swaps	(9.1)	—	12.3
Net cash (used for) provided by financing activities	(636.7)	(468.1)	1,232.7
Effect of exchange rate changes on cash and cash equivalents	6.0	(4.3)	1.2
Change in cash and cash equivalents	(51.6)	61.4	14.4
Cash and cash equivalents, beginning of year	170.3	108.9	94.5
Cash and cash equivalents, end of year	\$ 118.7	\$ 170.3	\$ 108.9
Supplemental disclosure of cash flow information:			
Cash paid for interest, net	\$ 145.6	\$ 146.4	\$ 57.0
Cash paid for income taxes, net	121.0	120.0	122.6

See accompanying notes to consolidated financial statements.

Pentair plc and Subsidiaries
Consolidated Statements of Changes in Equity

<i>In millions</i>	Ordinary shares		Additional paid-in capital	Retained earnings	Accumulated other comprehensive loss	Total
	Number	Amount				
Balance - December 31, 2021	165.1	\$ 1.7	\$ 1,582.7	\$ 1,051.4	\$ (213.9)	2,421.9
Net income	—	—	—	480.9	—	480.9
Other comprehensive loss, net of tax	—	—	—	—	(25.1)	(25.1)
Dividends declared	—	—	—	(141.8)	—	(141.8)
Share repurchases	(1.0)	—	(50.0)	—	—	(50.0)
Exercise of options, net of shares tendered for payment	0.1	—	3.6	—	—	3.6
Issuance of restricted shares, net of cancellations	0.4	—	—	—	—	—
Shares surrendered by employees to pay taxes	(0.1)	—	(6.3)	—	—	(6.3)
Share-based compensation	—	—	24.9	—	—	24.9
Balance - December 31, 2022	164.5	\$ 1.7	\$ 1,554.9	\$ 1,390.5	\$ (239.0)	2,708.1
Net income	—	—	—	622.7	—	622.7
Other comprehensive loss, net of tax	—	—	—	—	(5.4)	(5.4)
Dividends declared	—	—	—	(147.0)	—	(147.0)
Exercise of options, net of shares tendered for payment	0.4	—	18.3	—	—	18.3
Issuance of restricted shares, net of cancellations	0.5	—	—	—	—	—
Shares surrendered by employees to pay taxes	(0.1)	—	(8.7)	—	—	(8.7)
Share-based compensation	—	—	29.1	—	—	29.1
Balance - December 31, 2023	165.3	\$ 1.7	\$ 1,593.6	\$ 1,866.2	\$ (244.4)	3,217.1
Net income	—	—	—	625.4	—	625.4
Other comprehensive loss, net of tax	—	—	—	—	(32.2)	(32.2)
Dividends declared	—	—	—	(155.5)	—	(155.5)
Share repurchases	(1.6)	—	(150.0)	—	—	(150.0)
Exercise of options, net of shares tendered for payment	0.8	—	28.8	—	—	28.8
Issuance of restricted shares, net of cancellations	0.4	—	—	—	—	—
Shares surrendered by employees to pay taxes	(0.1)	—	(10.4)	—	—	(10.4)
Share-based compensation	—	—	39.7	—	—	39.7
Balance - December 31, 2024	164.8	\$ 1.7	\$ 1,501.7	\$ 2,336.1	\$ (276.6)	3,562.9

See accompanying notes to consolidated financial statements.

1. Basis of Presentation and Summary of Significant Accounting Policies

Business

Pentair plc and its consolidated subsidiaries (“we,” “us,” “our,” “Pentair” or the “Company”) is a water industrial manufacturing company comprised of three reportable segments: Flow, Water Solutions and Pool.

Basis of presentation

The accompanying consolidated financial statements include the accounts of Pentair plc, its wholly-owned subsidiaries and entities for which the Company has a controlling financial interest. Intercompany accounts and transactions have been eliminated. Investments in companies of which we own 20% to 50% of the voting stock or have the ability to exercise significant influence over operating and financial policies of the investee are accounted for using the equity method of accounting and as a result, our share of the earnings or losses of such equity affiliates is included in the Consolidated Statements of Operations and Comprehensive Income.

The consolidated financial statements have been prepared in U.S. dollars (“USD”) and in accordance with accounting principles generally accepted in the United States (“U.S.”) (“U.S. GAAP”).

Fiscal year

Our fiscal year ends on December 31. We report our interim quarterly periods on a calendar quarter basis.

Use of estimates

The preparation of our consolidated financial statements in conformity with U.S. GAAP requires us to make estimates and assumptions that affect the amounts reported in these consolidated financial statements and accompanying notes, disclosures of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. These estimates include our accounting for valuation of goodwill and indefinite lived intangible assets, estimated losses on accounts receivable, estimated realizable value on excess and obsolete inventory, over time revenue recognition, assets acquired and liabilities assumed in acquisitions, estimated selling proceeds from assets held for sale, contingent liabilities, income taxes and pension and other post-retirement benefits. Actual results could differ from our estimates.

Revenue recognition

Revenue is recognized when control of the promised goods or services is transferred to our customers, in an amount that reflects the consideration we expect to be entitled to in exchange for transferring those goods or providing services. We account for a contract when it has approval and commitment from both parties, the rights of the parties are identified, payment terms are identified, the contract has commercial substance and collectability of consideration is probable.

When determining whether the customer has obtained control of the goods or services, we consider any future performance obligations. Generally, there is no post-shipment obligation on product sold other than warranty obligations in the normal and ordinary course of business. In the event significant post-shipment obligations were to exist, revenue recognition would be deferred until Pentair has substantially accomplished what it must do to be entitled to the benefits represented by the revenue.

Performance obligations

A performance obligation is a promise in a contract to transfer a distinct good or service to the customer, and is the unit of account for purposes of revenue recognition. A contract’s transaction price is allocated to each distinct performance obligation and recognized as revenue when, or as, the performance obligation is satisfied. The majority of our contracts have a single performance obligation as the promise to transfer the individual goods or services is not separately identifiable from other promises in the contracts and, therefore, not distinct. For contracts with multiple performance obligations, standalone selling price is generally readily observable.

Our performance obligations are satisfied at a point in time or over time as work progresses. Revenue from goods and services transferred to customers at a point in time accounted for 91.2%, 90.6% and 91.7% of our revenue for the years ended December 31, 2024, 2023 and 2022, respectively. Revenue on these contracts is recognized when obligations under the terms of the contract with our customer are satisfied; generally, this occurs with the transfer of control upon shipment.

Revenue from products and services transferred to customers over time accounted for 8.8%, 9.4% and 8.3% of our revenue for the years ended December 31, 2024, 2023 and 2022, respectively. For the majority of our revenue recognized over time, we use an input measure to determine progress towards completion. Under this method, sales and gross profit are recognized as work is performed generally based on the relationship between the actual costs incurred and the total estimated costs at completion (“the cost-to-cost method”) or based on efforts for measuring progress towards completion in situations in which this approach is more representative of the progress on the contract than the cost-to-cost method. Contract costs include labor, material, overhead and, when appropriate, general and administrative expenses. Changes to the original estimates may be required during the life of the contract, and such estimates are reviewed on a regular basis. Sales and gross profit are adjusted using the

Pentair plc and Subsidiaries
Notes to consolidated financial statements

cumulative catch-up method for revisions in estimated total contract costs. These reviews have not resulted in adjustments that were significant to our results of operations. For performance obligations related to long term contracts, when estimates of total costs to be incurred on a performance obligation exceed total estimates of revenue to be earned, a provision for the entire loss on the performance obligation is recognized in the period the loss is determined.

On December 31, 2024, we had \$103.2 million of remaining performance obligations on contracts with an original expected duration of one year or more. We expect to recognize the majority of our remaining performance obligations on these contracts within the next 12 to 18 months.

Sales returns

The right of return may exist explicitly or implicitly with our customers. Our return policy allows for customer returns only upon our authorization. Goods returned must be products we continue to market and must be in salable condition. When the right of return exists, we adjust the transaction price for the estimated effect of returns. We estimate the expected returns based on historical sales levels, the timing and magnitude of historical sales return levels as a percent of sales, type of product, type of customer and a projection of this experience into the future.

Pricing and sales incentives

Our contracts may give customers the option to purchase additional goods or services priced at a discount. Options to acquire additional goods or services at a discount can come in many forms, such as customer programs and incentive offerings including pricing arrangements, promotions and other volume-based incentives.

We reduce the transaction price for certain customer programs and incentive offerings including pricing arrangements, promotions and other volume-based incentives that represent variable consideration. Sales incentives given to our customers are recorded using either the expected value method or most likely amount approach for estimating the amount of consideration to which Pentair shall be entitled. The expected value is the sum of probability-weighted amounts in a range of possible consideration amounts. An expected value is an appropriate estimate of the amount of variable consideration when there are a large number of contracts with similar characteristics. The most likely amount is the single most likely amount in a range of possible consideration amounts (that is, the single most likely outcome of the contract). The most likely amount is an appropriate estimate of the amount of variable consideration if the contract has limited possible outcomes (for example, an entity either achieves a performance bonus or does not).

Pricing is established at or prior to the time of sale with our customers, and we record sales at the agreed-upon net selling price. However, one of our businesses allows customers to apply for a refund of a percentage of the original purchase price if they can demonstrate sales to a qualifying end customer. We use the expected value method to estimate the anticipated refund to be paid based on historical experience and reduce sales for the probable cost of the discount. The cost of these refunds is recorded as a reduction of the transaction price.

Volume-based incentives involve rebates that are negotiated at or prior to the time of sale with the customer and are redeemable only if the customer achieves a specified cumulative level of sales or sales increase. Under these incentive programs, at the time of sale, we determine the most likely amount of the rebate to be paid based on forecasted sales levels. These forecasts are updated at least quarterly for each customer, and the transaction price is reduced for the anticipated cost of the rebate. If the forecasted sales for a customer change, the accrual for rebates is adjusted to reflect the new amount of rebates expected to be earned by the customer.

Shipping and handling costs

Amounts billed to customers for shipping and handling activities after the customer obtains control are treated as a promised service performance obligation and recorded in *Net sales* in the accompanying Consolidated Statements of Operations and Comprehensive Income. Shipping and handling costs incurred by Pentair for the delivery of goods to customers are considered a cost to fulfill the contract and are included in *Cost of goods sold* in the accompanying Consolidated Statements of Operations and Comprehensive Income.

Contract assets and liabilities

Contract assets consist of unbilled amounts resulting from sales under long-term contracts when the cost-to-cost method of revenue recognition is utilized and revenue recognized exceeds the amount billed to the customer, such as when the customer retains a small portion of the contract price until completion of the contract. We typically receive interim payments on sales under long-term contracts as work progresses, although for some contracts, we may be entitled to receive an advance payment. Contract liabilities consist of advanced payments, billings in excess of costs incurred and deferred revenue.

Contract assets are recorded within *Other current assets*, and contract liabilities are recorded within *Other current liabilities* in the Consolidated Balance Sheets.

Pentair plc and Subsidiaries
Notes to consolidated financial statements

Contract assets and liabilities consisted of the following:

<i>In millions</i>	December 31		\$ Change	% Change
	2024	2023		
Contract assets	\$ 46.7	\$ 70.8	\$ (24.1)	(34.0)%
Contract liabilities	38.8	53.7	(14.9)	(27.7)%
Net contract assets	\$ 7.9	\$ 17.1	\$ (9.2)	(53.8)%

The \$9.2 million decrease in net contract assets from December 31, 2023 to December 31, 2024 was primarily the result of timing of milestone payments. Approximately 95% of our contract liabilities at December 31, 2023 were recognized in revenue during the twelve months ended December 31, 2024. There were no impairment losses recognized on our net contract assets for the twelve months ended December 31, 2024 and December 31, 2023.

Practical expedients and exemptions

We generally expense incremental costs of obtaining a contract when incurred because the amortization period would be less than one year. These costs primarily relate to sales commissions and are recorded in *Selling, general and administrative expense* in the Consolidated Statements of Operations and Comprehensive Income.

We do not disclose the value of unsatisfied performance obligations for contracts with an original expected length of one year or less. Further, we do not adjust the promised amount of consideration for the effects of a significant financing component if we expect, at contract inception, that the period between when we transfer a promised good or service to a customer and when the customer pays for that good or service will be one year or less.

Revenue by category

We disaggregate our revenue from contracts with customers by segment, geographic location and vertical market, as we believe these best depict how the nature, amount, timing and uncertainty of our revenue and cash flows are affected by economic factors. Refer to Note 14 for revenue disaggregated by reportable segment.

Geographic net sales information, based on geographic destination of the sale, was as follows:

<i>In millions</i>	Years ended December 31		
	2024	2023	2022
U.S.	\$ 2,833.6	\$ 2,835.9	\$ 2,913.2
Western Europe	493.3	471.9	439.2
Developing ⁽¹⁾	527.2	558.0	515.5
Other Developed ⁽²⁾	228.7	238.7	253.9
Consolidated net sales ⁽³⁾	\$ 4,082.8	\$ 4,104.5	\$ 4,121.8

⁽¹⁾ Developing includes China, Eastern Europe, Latin America, the Middle East and Southeast Asia.

⁽²⁾ Other Developed includes Australia, Canada and Japan.

⁽³⁾ Net sales in Ireland, for each of the years presented, were not material.

Vertical market net sales information was as follows:

<i>In millions</i>	Years ended December 31		
	2024	2023	2022
Residential	\$ 2,191.5	\$ 2,134.0	\$ 2,613.6
Commercial	1,117.2	1,177.2	809.1
Industrial	774.1	793.3	699.1
Consolidated net sales	\$ 4,082.8	\$ 4,104.5	\$ 4,121.8

Research and development

We conduct research and development (“R&D”) activities primarily in our own facilities, which mostly consist of development of new products, product applications and manufacturing processes. We expense R&D costs as incurred. R&D expenditures during 2024, 2023 and 2022 were \$93.6 million, \$99.8 million and \$92.2 million, respectively.

Cash equivalents

We consider highly liquid investments with original maturities of three months or less at the date of acquisition to be cash equivalents.

Trade receivables and concentration of credit risk

We record an allowance for credit losses, reducing our receivables balance to an amount we estimate is collectible from our customers. Estimates used in determining the allowance for credit losses are based on current trends, aging of accounts receivable, periodic credit evaluations of our customers' financial condition, and historical collection experience as well as reasonable and supportable forecasts of future economic conditions. We generally do not require collateral.

The following table summarizes the activity in the allowance for credit losses:

<i>In millions</i>	Years ended December 31		
	2024	2023	2022
Beginning balance	\$ 11.2	\$ 10.8	\$ 9.1
Bad debt (benefit) expense	(0.2)	0.7	3.6
Acquisitions	—	—	0.3
Write-offs, net of recoveries	(1.4)	(0.7)	(1.4)
Other ⁽¹⁾	(0.5)	0.4	(0.8)
Ending balance	\$ 9.1	\$ 11.2	\$ 10.8

⁽¹⁾ Other amounts are primarily the effects of changes in currency translations and the impact of allowance for credits.

Inventories

Inventories are stated at the lower of cost or net realizable value with substantially all inventories recorded using the first-in, first-out ("FIFO") cost method.

Property, plant and equipment, net

Property, plant and equipment is stated at historical cost. We compute depreciation by the straight-line method based on the following estimated useful lives:

	Years
Land improvements	5 to 20
Buildings and leasehold improvements	5 to 50
Machinery and equipment	3 to 15
Capitalized software	3 to 10

Significant improvements that add to productive capacity or extend the lives of properties are capitalized. Costs for repairs and maintenance are charged to expense as incurred. We capitalize costs associated with software developed or obtained for internal use when both the preliminary project stage is completed, and it is probable the software being developed will be completed and placed in service. The costs of computer software developed or obtained for internal use are amortized on a straight-line basis unless another systematic and rational basis is more representative of the software's use. When property or capitalized software is retired or otherwise disposed of, the recorded cost of the assets and their related accumulated depreciation are removed from the Consolidated Balance Sheets and any related gains or losses are included in income.

The following table presents geographic *Property, plant and equipment, net* by region as of December 31:

<i>In millions</i>	2024	2023
U.S.	\$ 225.0	\$ 223.9
Western Europe	76.0	77.4
Developing ⁽¹⁾	48.2	50.5
Other Developed ⁽²⁾	9.6	10.2
Consolidated ⁽³⁾	\$ 358.8	\$ 362.0

⁽¹⁾ Developing includes China, Eastern Europe, Latin America, the Middle East and Southeast Asia.

⁽²⁾ Other Developed includes Australia, Canada and Japan.

⁽³⁾ *Property, plant and equipment, net* in Ireland, for each of the years presented, were not material.

We review the recoverability of long-lived assets to be held and used, such as property, plant and equipment, when events or changes in circumstances occur that indicate the carrying value of the asset or asset group may not be recoverable. The assessment of possible impairment is based on our ability to recover the carrying value of the asset or asset group from the expected future pre-tax cash flows (undiscounted and without interest charges) of the related operations. If these cash flows are less than the carrying value of such asset or asset group, an impairment loss is recognized for the difference between estimated fair value and carrying value. Impairment losses on long-lived assets held for sale are determined in a similar manner, except that fair values are reduced for the cost to dispose of the assets. The measurement of impairment requires us to estimate future cash flows and the fair value of long-lived assets. We recorded \$9.2 million of long-lived asset impairment charges in 2022 comprised of long-lived assets which were primarily written off as a result of restructuring actions and certain business exits announced in the fourth quarter of 2022. No material long-lived asset impairment charges were recorded in 2024 or 2023.

Goodwill and identifiable intangible assets

Goodwill

Goodwill represents the excess of the cost of acquired businesses over the net of the fair value of identifiable tangible net assets and identifiable intangible assets purchased and liabilities assumed.

We test our goodwill for impairment at least annually during the fourth quarter or more frequently if events or changes in circumstances indicate that the asset might be impaired. We perform our annual or interim goodwill impairment test by comparing the fair value of the relevant reporting unit with its carrying amount. We would recognize an impairment charge for the amount by which the carrying amount exceeds the reporting unit's fair value; however, the loss recognized would not exceed the total amount of goodwill allocated to that reporting unit.

We have the option to perform a qualitative assessment to determine whether it is necessary to perform the quantitative goodwill impairment test. However, we may elect to perform the quantitative goodwill impairment test even if no indications of a potential impairment exist.

During 2024, a qualitative assessment was performed. As a result, it was determined that it was more likely than not that the fair value of the reporting units exceeded their respective carrying values. Factors considered in the analysis included the 2023 discounted cash flow fair value assessment of the reporting units and the calculated excess fair value over carrying amount, financial performance, forecasts and trends, market capitalization, regulatory and environmental issues, macro-economic conditions, industry and market considerations, raw material costs and management stability. We also consider the extent to which each of the adverse events and circumstances identified affect the comparison of the respective reporting unit's fair value with its carrying amount. We place more weight on the events and circumstances that most affect the respective reporting unit's fair value or the carrying amount of its net assets. We consider positive and mitigating events and circumstances that may affect its determination of whether it is more likely than not that the fair value exceeds the carrying amount.

During 2023, a quantitative assessment was performed. The fair value of each reporting unit was determined using a discounted cash flow analysis and market approach. Projecting discounted future cash flows requires us to make significant estimates regarding future revenues and expenses, projected capital expenditures, changes in working capital and the appropriate discount rate. Use of the market approach consists of comparisons to comparable publicly-traded companies that are similar in size and industry. For the 2023 annual impairment test, the estimated fair value significantly exceeded the carrying value in each of our reporting units, therefore, no impairment charge was required. The non-recurring fair value measurement is a "Level 3" measurement under the fair value hierarchy.

Identifiable intangible assets

Our primary identifiable intangible assets include: customer relationships, trade names, proprietary technology and patents. Identifiable intangibles with finite lives are amortized and those identifiable intangibles with indefinite lives are not amortized. Identifiable intangible assets that are subject to amortization are evaluated for impairment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. An impairment charge of \$2.7 million was recorded in 2022 related to the write-off of a proprietary technology intangible asset as a result of restructuring initiatives implemented in the fourth quarter of 2022. The impairment charge was recorded in *Selling, general and administrative* in our Consolidated Statements of Operations and Comprehensive Income. No impairment charges associated with identifiable intangibles with finite lives were recognized in 2024 or 2023.

Identifiable intangible assets not subject to amortization are tested for impairment annually or more frequently if events warrant. We complete our annual impairment test the first day of the fourth quarter each year for those identifiable assets not subject to amortization. The impairment test for trade names consists of a comparison of the fair value of the trade name with its carrying value. Fair value is measured using the relief-from-royalty method. This method assumes the trade name has value to the extent that the owner is relieved of the obligation to pay royalties for the benefits received from them. This method requires us to estimate the future revenue for the related brands, the appropriate royalty rate and the weighted average cost of capital. The non-recurring fair value measurement is a “Level 3” measurement under the fair value hierarchy. No impairment charges were recognized in 2024, 2023, or 2022 as a result of our annual impairment assessment.

Income taxes

We use the asset and liability approach to account for income taxes. Under this method, deferred tax assets and liabilities are recognized for the expected future tax consequences of differences between the carrying amounts of assets and liabilities and their respective tax bases using enacted tax rates in effect for the year in which the differences are expected to reverse. The effect on deferred tax assets and liabilities of a change in tax rates is recognized in income in the period when the change is enacted. We maintain valuation allowances unless it is more likely than not that all or a portion of the deferred tax assets will be realized. Changes in valuation allowances from period to period are included in our tax provision in the period of change. We recognize the effect of income tax positions only if those positions are more likely than not of being sustained. Recognized income tax positions are measured at the largest amount that is greater than 50% likely of being realized. Changes in recognition or measurement are reflected in the period in which the change in judgment occurs.

Pension and other post-retirement plans

We sponsor U.S. and non-U.S. defined-benefit pension and other post-retirement plans. The pension and other post-retirement benefit costs for company-sponsored benefit plans are determined from actuarial assumptions and methodologies, including discount rates and expected returns on plan assets. These assumptions are updated annually and are disclosed in Note 11.

We recognize changes in the fair value of plan assets and net actuarial gains or losses for pension and other post-retirement benefits annually in the fourth quarter each year (“mark-to-market adjustment”) and, if applicable, in any quarter in which an interim re-measurement is triggered. Net actuarial gains and losses occur when the actual experience differs from any of the various assumptions used to value our pension and other post-retirement plans or when assumptions change, as they may each year. The remaining components of pension expense, including service and interest costs and estimated return on plan assets, are recorded on a quarterly basis. The service costs are recorded within *Operating income* and the interest costs, expected return on plan assets and net actuarial gain/loss components of net periodic pension and other post-retirement benefit costs are recorded within *Other (income) expense*.

Insurance subsidiary

A portion of our property and casualty insurance program is insured through our regulated wholly-owned captive insurance subsidiary, Penwald Insurance Company (“Penwald”). Reserves for policy claims are established based on actuarial projections of ultimate losses. As of December 31, 2024 and 2023, reserves for policy claims were \$68.6 million, of which \$13.0 million was included in *Other current liabilities* and \$55.6 million was included in *Other non-current liabilities*, and \$64.9 million, of which \$13.0 million was included in *Other current liabilities* and \$51.9 million was included in *Other non-current liabilities*, respectively.

Share-based compensation

We account for share-based compensation awards on a fair value basis. The estimated grant date fair value of each option award is recognized in income on an accelerated basis over the requisite service period (generally the vesting period). The estimated fair value of each option award is calculated using the Black-Scholes option-pricing model. From time to time, we have elected to modify the terms of the original grant. These modified grants are accounted for as a new award and measured using the fair value method, resulting in the inclusion of additional compensation expense in our Consolidated Statements of Operations and Comprehensive Income.

Pentair plc and Subsidiaries
Notes to consolidated financial statements

Restricted share awards and units (“RSUs”) are recorded as compensation cost over the requisite service periods based on the market value on the date of grant.

Performance share units (“PSUs”) are stock awards where the ultimate number of shares issued will be contingent on the Company’s performance against certain performance goals. The Compensation Committee has the ability to adjust performance goals or modify the manner of measuring or evaluating a performance goal using its discretion. The fair value of each PSU is based on the market value on the date of grant. We recognize expense related to the estimated vesting of our PSUs granted. The estimated vesting of the PSUs is based on the probability of achieving certain performance metrics over the specified performance period.

The requisite service period for options and RSUs and the performance period for PSUs may be shorter than the vesting period if the employee becomes retirement eligible before the end of the vesting period.

Earnings per ordinary share

We present two calculations of earnings per ordinary share (“EPS”). Basic EPS equals net income divided by the weighted-average number of ordinary shares outstanding during the period. Diluted EPS is computed by dividing net income by the sum of weighted-average number of ordinary shares outstanding plus dilutive effects of ordinary share equivalents, calculated using the two-class method.

Derivative financial instruments

We recognize all derivatives, including those embedded in other contracts, as either assets or liabilities at fair value in our Consolidated Balance Sheets. If the derivative is designated and effective, the effective portion of changes in the fair value of the derivative is recorded in *Accumulated other comprehensive income (loss)* (“AOCI”) as a separate component of equity in the Consolidated Balance Sheets and is recognized in the Consolidated Statements of Operations and Comprehensive Income when the hedged item affects earnings. If the underlying hedged transaction ceases to exist or if the hedge becomes ineffective, all changes in fair value of the related derivatives that have not been settled are recognized in current earnings. For a derivative that is not designated as or does not qualify as a hedge, changes in fair value are reported in earnings immediately.

We use derivative instruments for the purpose of hedging interest rate and currency exposures, which exist as part of ongoing business operations. We do not hold or issue derivative financial instruments for trading or speculative purposes. Our policy is not to enter into contracts with terms that cannot be designated as normal purchases or sales. From time to time, we may enter into short duration foreign currency contracts to hedge foreign currency risks.

Foreign currency translation

The financial statements of the Company’s non-U.S. dollar functional currency international subsidiaries are measured using the local currency as the functional currency. Assets and liabilities of these subsidiaries are translated at the rates of exchange at the balance sheet date. Income (loss) and expense items are translated at average monthly rates of exchange. The resultant translation adjustments are included in AOCI, a component of equity.

New and recently adopted accounting standards

In November 2023, the Financial Accounting Standards Board (“FASB”) issued Accounting Standards Update (“ASU”) No. 2023-07, “Segment Reporting,” which expands annual and interim disclosure requirements for reportable segments, primarily through enhanced disclosures regarding significant expenses. We adopted the standard retrospectively beginning with our annual reporting for the year ended December 31, 2024. Refer to Note 14 for further information on our segment reporting.

In December 2023, the FASB issued ASU No. 2023-09, “Improvements to Income Tax Disclosures,” which requires new and enhanced disclosures primarily related to income taxes paid and the effective tax rate reconciliation. We will adopt the standard beginning with our annual reporting for the year ending December 31, 2025. We are currently evaluating the potential effect that the updated standard will have on our financial statement disclosures.

In November 2024, the FASB issued ASU No. 2024-03, “Disaggregation - Income Statement Expenses,” which requires disclosure of disaggregation of certain relevant expenses within the Consolidated Statements of Operations and Comprehensive Income on an annual and interim basis. We will adopt the standard beginning with our annual reporting for the year ending December 31, 2027. We are currently evaluating the effect that the updated standard will have on our financial statement disclosures.

2. Acquisitions

On December 2, 2024, as part of our Pool reportable segment, we completed the acquisition of G & F Manufacturing, LLC for \$116.0 million in cash, net of cash acquired and subject to customary adjustments. The net purchase price is comprised of an upfront cash payment of \$108.0 million, subject to customary adjustments, and the estimated fair value at the acquisition date of contingent earn-out liabilities based upon the achievement of certain defined operating results in the two years following the acquisition. The excess purchase price over tangible and identifiable intangible net assets acquired has been preliminarily allocated to goodwill in the amount of \$56.6 million, all of which is expected to be deductible for income tax purposes. Identifiable intangible assets acquired consisted of \$51.6 million of definite-lived customer relationships with an estimated useful life of 16 years. The pro forma impact of the acquisition was not material.

In July 2022, as part of our Water Solutions reportable segment, we acquired the issued and outstanding equity securities of certain subsidiaries of Welbilt, Inc. (“Welbilt”) and certain other assets, rights, and properties, and assumed certain liabilities, comprising Welbilt’s Manitowoc Ice business (“Manitowoc Ice”), for approximately \$1.6 billion in cash.

Manitowoc Ice is a designer, manufacturer and distributor of commercial ice machines. The acquisition of Manitowoc Ice allows us to enhance and deliver our total water management offerings to an expanded network of channel partners and customers.

The purchase price has been allocated based on the fair value of assets acquired and liabilities assumed at the date of the Manitowoc Ice acquisition. The purchase price allocation was completed in the third quarter of 2023.

The following table summarizes the final allocation of the purchase price to the fair value of assets acquired and liabilities assumed in the Manitowoc Ice acquisition:

<i>In millions</i>	
Cash	\$ 33.8
Accounts receivable	36.7
Inventories	66.7
Other current assets	3.9
Property, plant and equipment	21.6
Identifiable intangible assets	728.3
Goodwill	789.7
Other assets	0.7
Current liabilities	(62.7)
Other liabilities	(4.8)
Purchase price	\$ 1,613.9

The excess of purchase price over tangible net assets and identified intangible assets acquired has been allocated to goodwill in the amount of \$789.7 million, all of which is deductible for income tax purposes. Goodwill recognized from the Manitowoc Ice acquisition primarily reflects the future economic benefit resulting from synergies of our combined operations.

Identifiable intangible assets acquired as part of the Manitowoc Ice acquisition include \$78.4 million of indefinite-lived trade name intangible assets, \$588.4 million of definite-lived customer relationships with a weighted-average estimated useful life of 20 years, \$47.1 million of definite-lived proprietary technology intangible assets with a weighted-average estimated useful life of 10 years and \$14.4 million of other definite-lived intangible assets with a weighted-average estimated useful life of four months. The fair values of trade names and proprietary technology acquired in the acquisition were determined using a relief-from-royalty method, and customer relationships and other definite-lived intangible assets acquired were determined using a multi-period excess earnings method. These methods utilize unobservable inputs that are significant to these fair value measurements and thus classified as Level 3 of the fair value hierarchy described in Note 9.

For the year ended December 31, 2022, non-recurring expense related to the fair value adjustment to acquisition-date inventory of \$5.8 million, transaction-related charges of \$19.9 million, and acquisition-related bridge financing costs of \$9.0 million are reflected in *Cost of goods sold*, *Selling, general and administrative* and *Net interest expense*, respectively, in the Consolidated Statements of Operations and Comprehensive Income. Manitowoc Ice’s net sales and operating income for the period from the acquisition date to December 31, 2022 were \$156.3 million and \$12.2 million, respectively. For the year ended December 31, 2022, Manitowoc’s operating income includes \$28.6 million of identifiable intangible asset amortization expense and \$5.8 million of amortization of inventory fair market value step-up.

The following table presents unaudited pro forma financial information as if the Manitowoc Ice acquisition had occurred on January 1, 2022, the beginning of the comparable prior annual reporting period:

<i>In millions, except per share data</i>	Year Ended December 31	
	2022	
Pro forma net sales	\$	4,328.6
Pro forma net income from continuing operations		486.3
Pro forma earnings per ordinary share - continuing operations		
Basic	\$	2.95
Diluted		2.94

The unaudited pro forma net income from continuing operations includes Manitowoc Ice's identifiable intangible asset amortization expense of \$34.1 million for the year ended December 31, 2022. The unaudited pro forma net income from continuing operations for the year ended December 31, 2022 excludes the impact of \$34.7 million of transaction-related charges, acquisition-related bridge financing costs and non-recurring expense related to the fair value adjustment to acquisition-date inventory.

The pro forma condensed consolidated financial information has been prepared for comparative purposes only and includes certain adjustments, as noted above. The adjustments are estimates based on currently available information and actual amounts may differ materially from these estimates. They do not reflect the effect of costs or synergies that would have been expected to result from the integration of the Manitowoc Ice acquisition. The pro forma information does not purport to be indicative of the results of operations that actually would have resulted had the Manitowoc Ice acquisition occurred on January 1, 2022.

3. Earnings Per Share

Basic and diluted earnings per share were calculated as follows:

<i>In millions, except per share data</i>	Years ended December 31		
	2024	2023	2022
Net income	\$ 625.4	\$ 622.7	\$ 480.9
Net income from continuing operations	\$ 625.6	\$ 622.9	\$ 483.2
Weighted average ordinary shares outstanding			
Basic	165.6	165.1	164.8
Dilutive impact of stock options and restricted stock awards	1.5	1.2	0.8
Diluted	167.1	166.3	165.6
Earnings (loss) per ordinary share			
Basic			
Continuing operations	\$ 3.78	\$ 3.77	\$ 2.93
Discontinued operations	—	—	(0.01)
Basic earnings per ordinary share	\$ 3.78	\$ 3.77	\$ 2.92
Diluted			
Continuing operations	\$ 3.74	\$ 3.75	\$ 2.92
Discontinued operations	—	—	(0.02)
Diluted earnings per ordinary share	\$ 3.74	\$ 3.75	\$ 2.90
Anti-dilutive stock options excluded from the calculation of diluted earnings per share	0.1	0.3	0.9

4. Restructuring and Transformation Program

In 2021, we launched and committed resources to a program designed to accelerate growth and drive margin expansion through transformation of our business model to drive operational excellence, reduce complexity and streamline our processes (the "Transformation Program"). The Transformation Program is structured in multiple phases and is expected to empower us to work more efficiently and optimize our business to better serve our customers while meeting our financial objectives.

Pentair plc and Subsidiaries
Notes to consolidated financial statements

During 2024, 2023 and 2022, we initiated and continued execution of activities associated with our Transformation Program as well as initiated and continued certain business restructuring initiatives aimed at reducing our fixed cost structure and realigning our business. Restructuring and Transformation Program initiatives during the years ended December 31, 2024, 2023 and 2022 included a reduction in hourly and salaried headcount of approximately 575 employees, 475 employees and 625 employees, respectively.

Restructuring and transformation-related costs included within *Cost of goods sold* and *Selling, general and administrative* expenses in the Consolidated Statements of Operations and Comprehensive Income included the following:

<i>In millions</i>	Years ended December 31		
	2024	2023	2022
Restructuring Initiatives			
Severance and related costs	\$ 34.5	\$ 8.2	\$ 17.7
Asset impairment and write-offs ⁽¹⁾	9.9	3.8	25.6
Other restructuring costs and related adjustments ⁽²⁾	(0.9)	(6.0)	13.0
Total restructuring costs	43.5	6.0	56.3
Transformation Program			
Severance and related costs	0.7	6.9	3.4
Asset impairment and write-offs ⁽¹⁾	7.7	0.4	—
Other transformation costs ⁽³⁾	51.4	37.4	23.8
Total transformation costs	59.8	44.7	27.2
Total restructuring and transformation costs	\$ 103.3	\$ 50.7	\$ 83.5

⁽¹⁾ Consists of inventory and long-lived asset impairments and write-offs associated with restructuring or transformation activities. An identifiable intangible asset was also impaired in 2022 as a result of certain business exits.

⁽²⁾ Other restructuring costs and related adjustments primarily consist of certain accruals and related refinements as well as various contract termination costs associated with business and product line exits.

⁽³⁾ Other transformation costs primarily consist of professional services and project management related costs, partially offset by gain on sale of assets in 2023.

Restructuring and transformation costs by reportable segment as well as Corporate and other were as follows:

<i>In millions</i>	Years ended December 31		
	2024	2023	2022
Flow	\$ 15.5	\$ 3.4	\$ 2.2
Water Solutions	19.4	(0.1)	41.1
Pool	15.7	9.1	14.3
Corporate and other	52.7	38.3	25.9
Total restructuring and transformation costs	\$ 103.3	\$ 50.7	\$ 83.5

Activity related to accrued severance and related costs recorded in *Other current liabilities* in the Consolidated Balance Sheets is summarized as follows:

<i>In millions</i>	Years ended December 31	
	2024	2023
Beginning balance	\$ 13.4	\$ 23.2
Costs incurred	35.2	15.1
Cash payments and other	(29.9)	(24.9)
Ending balance	\$ 18.7	\$ 13.4

5. Goodwill and Other Identifiable Intangible Assets

The changes in the carrying amount of goodwill for the years ended December 31, 2024 and 2023 by reportable segment were as follows:

<i>In millions</i>	December 31, 2023	Acquisitions	Foreign currency translation	December 31, 2024
Flow	\$ 767.1	\$ —	\$ (36.7)	\$ 730.4
Water Solutions	1,400.6	—	(7.9)	1,392.7
Pool	1,106.9	56.6	—	1,163.5
Total goodwill	\$ 3,274.6	\$ 56.6	\$ (44.6)	\$ 3,286.6

<i>In millions</i>	December 31, 2022	Purchase accounting adjustments	Foreign currency translation	December 31, 2023
Flow	\$ 747.6	\$ —	\$ 19.5	\$ 767.1
Water Solutions	1,398.1	(0.8)	3.3	1,400.6
Pool	1,106.9	—	—	1,106.9
Total goodwill	\$ 3,252.6	\$ (0.8)	\$ 22.8	\$ 3,274.6

There has been no impairment of goodwill for any of the years presented.

Identifiable intangible assets consisted of the following at December 31:

<i>In millions</i>	2024			2023		
	Cost	Accumulated amortization	Net	Cost	Accumulated amortization	Net
Definite-life intangibles						
Customer relationships	\$ 1,146.5	\$ (400.2)	\$ 746.3	\$ 1,106.2	\$ (361.8)	\$ 744.4
Proprietary technology and patents	88.8	(48.4)	40.4	89.7	(43.2)	46.5
Total definite-life intangibles	1,235.3	(448.6)	786.7	1,195.9	(405.0)	790.9
Indefinite-life intangibles						
Trade names	247.1	—	247.1	251.5	—	251.5
Total intangibles	\$ 1,482.4	\$ (448.6)	\$ 1,033.8	\$ 1,447.4	\$ (405.0)	\$ 1,042.4

Identifiable intangible asset amortization expense in 2024, 2023 and 2022 was \$54.3 million, \$55.3 million and \$52.5 million, respectively.

An impairment charge of \$2.7 million was recorded in 2022 related to the write-off of a proprietary technology intangible asset as a result of a business exit announced in the fourth quarter of 2022. No impairment charge was recorded for identifiable intangible assets in 2024 or 2023.

Estimated future amortization expense for identifiable intangible assets during the next five years is as follows:

<i>In millions</i>	2025	2026	2027	2028	2029
Estimated amortization expense	\$ 57.1	\$ 55.8	\$ 54.5	\$ 52.1	\$ 51.7

6. Supplemental Balance Sheet Information

<i>In millions</i>	December 31	
	2024	2023
Inventories		
Raw materials and supplies	\$ 315.8	\$ 369.1
Work-in-process	88.4	97.1
Finished goods	206.7	211.5
Total inventories	\$ 610.9	\$ 677.7
Other current assets		
Cost in excess of billings	\$ 46.7	\$ 70.8
Prepaid expenses	51.0	55.2
Other current assets	43.6	33.3
Total other current assets	\$ 141.3	\$ 159.3
Property, plant and equipment, net		
Land and land improvements	\$ 31.3	\$ 32.3
Buildings and leasehold improvements	217.9	225.5
Machinery and equipment	675.8	669.9
Capitalized software	92.2	70.5
Construction in progress	51.1	55.8
Total property, plant and equipment	1,068.3	1,054.0
Accumulated depreciation and amortization	709.5	692.0
Total property, plant and equipment, net	\$ 358.8	\$ 362.0
Other non-current assets		
Right-of-use lease assets	\$ 116.1	\$ 102.0
Deferred income taxes	129.6	113.2
Deferred compensation plan assets	29.4	26.1
Other non-current assets	56.1	74.0
Total other non-current assets	\$ 331.2	\$ 315.3
Other current liabilities		
Dividends payable	\$ 41.2	\$ 38.0
Accrued warranty	67.2	65.0
Accrued rebates and incentives	176.7	181.8
Accrued freight	18.4	20.4
Billings in excess of cost	33.8	46.9
Current lease liability	26.3	26.2
Income taxes payable	28.8	20.7
Accrued restructuring	18.7	13.4
Interest payable	5.5	29.7
Other current liabilities	80.2	103.2
Total other current liabilities	\$ 496.8	\$ 545.3
Other non-current liabilities		
Long-term lease liability	\$ 92.8	\$ 79.1
Income taxes payable	8.1	35.6
Self-insurance liabilities	55.6	51.9
Deferred compensation plan liabilities	29.4	26.1
Foreign currency contract liabilities	16.3	70.0
Other non-current liabilities	41.6	32.0
Total other non-current liabilities	\$ 243.8	\$ 294.7

7. Accumulated Other Comprehensive Loss

Components of *Accumulated Other Comprehensive Loss* consist of the following:

<i>In millions</i>	December 31	
	2024	2023
Cumulative translation adjustments	\$ (322.3)	\$ (256.5)
Market value of derivative financial instruments, net of tax	45.7	12.1
Accumulated other comprehensive loss	\$ (276.6)	\$ (244.4)

8. Debt

Debt and the average interest rates on debt outstanding were as follows:

<i>In millions</i>	Average interest rate at December 31, 2024	Maturity Year	December 31	
			2024	2023
Revolving credit facility (Senior Credit Facility)	5.533%	2026	\$ 9.5	\$ —
Term Loan Facility	5.850%	2023 - 2027	825.0	987.5
Term loans (Senior Credit Facility)	N/A	2024	—	200.0
Senior notes - fixed rate ⁽¹⁾	4.650%	2025	19.3	19.3
Senior notes - fixed rate ⁽¹⁾	4.500%	2029	400.0	400.0
Senior notes - fixed rate ⁽¹⁾	5.900%	2032	400.0	400.0
Other	5.533%	2025	9.3	—
Unamortized debt issuance costs and discounts	N/A	N/A	(15.1)	(18.5)
Total debt			1,648.0	1,988.3
Less: Current maturities of short-term borrowings			9.3	—
Long-term debt			\$ 1,638.7	\$ 1,988.3

⁽¹⁾ Senior notes are guaranteed as to payment by Pentair plc.

Pentair, Pentair Finance S.à.r.l (“PFSA”) and Pentair, Inc. are parties to a credit agreement (the “Senior Credit Facility”), with Pentair as guarantor and PFSA and Pentair, Inc. as borrowers, providing for a \$900.0 million senior unsecured revolving credit facility. During 2024, PFSA repaid \$200.0 million of term loans under the Senior Credit Facility. The revolving credit facility has a maturity date of December 16, 2026. Borrowings under the Senior Credit Facility bear interest at a rate equal to an alternate base rate, adjusted term secured overnight financing rate, adjusted euro interbank offered rate, adjusted daily simple secured overnight financing rate or central bank rate, plus, in each case, an applicable margin. The applicable margin is based on, at PFSA’s election, Pentair’s leverage level or PFSA’s public credit rating.

As of December 31, 2024, total availability under the Senior Credit Facility was \$890.5 million. In addition, PFSA has the option to request to increase the revolving credit facility and/or to enter into one or more additional tranches of term loans in an aggregate amount of up to \$300.0 million, subject to customary conditions, including the commitment of the participating lenders.

In addition, Pentair and PFSA are parties to a senior unsecured term loan facility (the “Term Loan Facility”), with PFSA, as borrower, Pentair, as guarantor, providing for an aggregate principal amount of \$1.0 billion. The Term Loan Facility has a maturity date of July 28, 2027, with required quarterly installment payments of \$6.3 million which began on the last day of the third quarter of 2023 and increased to \$12.5 million on the last day of the third quarter of 2024. During 2024, PFSA repaid the remaining \$162.5 million of quarterly installments on the Term Loan Facility, such that PFSA is not required to make any further quarterly installment payments. As of December 31, 2024, the remaining obligation of \$825.0 million matures on July 28, 2027. The Term Loan Facility bears interest at a rate equal to an alternate base rate, adjusted term secured overnight financing rate, or adjusted daily simple secured overnight financing rate, plus, in each case, an applicable margin. The applicable margin is based on, at PFSA’s election, Pentair’s leverage level or PFSA’s public credit rating.

Our debt agreements contain various financial covenants, but the most restrictive covenants are contained in the Senior Credit Facility and the Term Loan Facility. The Senior Credit Facility and the Term Loan Facility contain covenants requiring us not to permit (i) the ratio of our consolidated debt (net of our consolidated unrestricted cash and cash equivalents in excess of \$5.0 million but not to exceed \$250.0 million) to our consolidated net income (excluding, among other things, non-cash gains and losses) before interest, taxes, depreciation, amortization and non-cash share-based compensation expense (“EBITDA”) on the last day of any period of four consecutive fiscal quarters (each, a “testing period”) to exceed 3.75 to 1.00 (or, at PFSA’s election and subject to certain conditions, 4.25 to 1.00 for four testing periods in connection with certain material acquisitions) (the “Leverage Ratio”) and (ii) the ratio of our EBITDA to our consolidated interest expense, for the same period to be less than 3.00 to 1.00 as of the end of each fiscal quarter. For purposes of the Leverage Ratio, the Senior Credit Facility and the Term Loan Facility provide for the calculation of EBITDA giving pro forma effect to certain acquisitions, divestitures and liquidations during the period to which such calculation relates.

In addition to the Senior Credit Facility and the Term Loan Facility, we have various other credit facilities with an aggregate availability of \$20.8 million, of which there were no outstanding borrowings at December 31, 2024. Borrowings under these credit facilities bear interest at variable rates.

We have \$19.3 million of senior notes maturing in the next twelve months. We classified this debt as long-term as of December 31, 2024 as we have the intent and ability to refinance such obligations on a long-term basis under the revolving credit facility under the Senior Credit Facility.

Debt outstanding, excluding unamortized issuance costs and discounts, at December 31, 2024 matures on a calendar year basis as follows:

<i>In millions</i>	2025	2026	2027	2028	2029	Thereafter	Total
Contractual debt obligation maturities	\$ 28.6	\$ 9.5	\$ 825.0	\$ —	\$ 400.0	\$ 400.0	\$ 1,663.1

9. Derivatives and Financial Instruments

Derivative financial instruments

We are exposed to market risk related to changes in foreign currency exchange rates and interest rates on our variable rate indebtedness. To manage the volatility related to these exposures, we periodically enter into a variety of derivative financial instruments. Our objective is to reduce, where it is deemed appropriate to do so, fluctuations in earnings and cash flows associated with changes in foreign currency rates or variable interest rates. The derivative contracts contain credit risk to the extent that our bank counterparties may be unable to meet the terms of the agreements. The amount of such credit risk is generally limited to the unrealized gains, if any, in such contracts. Such risk is minimized by limiting those counterparties to major financial institutions of high credit quality.

Foreign currency contracts

We conduct business in various locations throughout the world and are subject to market risk due to changes in the value of foreign currencies in relation to our reporting currency, the U.S. dollar. We manage our economic and transaction exposure to certain market-based risks through the use of foreign currency derivative financial instruments. Our objective in holding these derivatives is to reduce the volatility of net earnings and cash flows associated with changes in foreign currency exchange rates. The majority of our foreign currency contracts have an original maturity date of less than one year.

At December 31, 2024, there were no outstanding foreign currency derivative contracts. At December 31, 2023, we had outstanding foreign currency derivative contracts with gross notional U.S. dollar equivalent amounts of \$23.9 million. The impact of these contracts on the Consolidated Statements of Operations and Comprehensive Income was not material for any period presented.

Cross currency swaps

At December 31, 2024 and 2023, we had outstanding cross currency swap agreements with a combined notional amount of \$728.5 million and \$940.2 million, respectively. The agreements are accounted for as either cash flow hedges, to hedge foreign currency fluctuations on certain intercompany debt, or as net investment hedges to manage our exposure to fluctuations in the Euro-U.S. Dollar exchange rate. As of December 31, 2024 and 2023, we had deferred foreign currency losses of \$13.8 million and \$51.6 million, respectively, recorded in *Accumulated other comprehensive loss* associated with our cross currency swap activity. The periodic interest settlements related to our cross currency swap agreements are classified as operating activities. The cash flows that relate to principal balances are classified as financing activities for the cash flow hedges on intercompany debt and investing activities for the net investment hedges.

Pentair plc and Subsidiaries
Notes to consolidated financial statements

In December 2024, a cross currency swap agreement, which was accounted for as a cash flow hedge, matured, resulting in a net cash payment of \$8.3 million, of which \$9.1 million is included within financing activities and \$0.8 million of interest income included within operating activities on the Consolidated Statements of Cash Flows.

In November 2024, we entered into transactions to early terminate and cash settle €450.0 million our cross currency swap agreements, resulting in total net cash received of \$11.4 million, of which \$10.6 million is included within investing activities and \$0.8 million of interest income is included within operating activities on the Consolidated Statements of Cash Flows. Subsequent to the termination, we entered into new cross currency swap agreements with euro notional amounts matching the original swap agreements.

In August 2024, we entered into a transaction to early terminate and cash settle a €150 million cross currency swap agreement, resulting in a net cash payment of \$16.1 million, of which \$16.4 million is included in investing activities and \$0.3 million of interest income is included within operating activities on the Consolidated Statements of Cash Flows. Subsequent to the termination, we entered into new cross currency swap agreements with euro notional amounts matching the original swap agreement.

In December 2023, we terminated a €150.0 million cross currency swap agreement, resulting in a net cash payment of \$17.6 million, of which \$18.5 million is included within investing activities and \$0.9 million of interest income is included within operating activities on the Consolidated Statements of Cash Flows. Subsequent to the termination, we entered into new cross currency swaps with a combined notional amount of €300.0 million.

Hedging of variable interest rates

We manage our exposure to certain interest rate risks related to our variable-rate debt through the use of interest rate swaps and collars. We enter into these agreements to hedge the variability of interest expense and cash flows attributable to changes in interest rates of our variable-rate debt. As of December 31, 2024, we had an aggregate notional amount of \$300.0 million and \$200.0 million in interest rate swaps and collars, respectively, that are designated as cash flow hedges.

Unrealized gains and losses related to the fair value of the interest rate swaps are recorded in *Accumulated other comprehensive loss* on our Consolidated Balance Sheets. We had unrealized gains of \$1.9 million and \$0.3 million at December 31, 2024 and 2023, respectively, recorded in *Accumulated other comprehensive loss* associated with our interest rate swap and collar activity. The periodic interest settlements related to our interest rate swaps and collars are classified as operating activities.

Fair value measurements

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. Assets and liabilities measured at fair value are classified using the following hierarchy, which is based upon the transparency of inputs to the valuation as of the measurement date:

- Level 1:* Valuation is based on observable inputs such as quoted market prices (unadjusted) for identical assets or liabilities in active markets.
- Level 2:* Valuation is based on inputs such as quoted market prices for similar assets or liabilities in active markets or other inputs that are observable for the asset or liability, either directly or indirectly, for substantially the full term of the financial instrument.
- Level 3:* Valuation is based upon other unobservable inputs that are significant to the fair value measurement.

In making fair value measurements, observable market data must be used when available. When inputs used to measure fair value fall within different levels of the hierarchy, the level within which the fair value measurement is categorized is based on the lowest level input that is significant to the fair value measurement.

Fair value of financial instruments

The following methods were used to estimate the fair values of each class of financial instrument:

- *short-term financial instruments (cash and cash equivalents, accounts and notes receivable, accounts payable and variable-rate debt)* — recorded amount approximates fair value because of the short maturity period;
- *long-term fixed-rate debt, including current maturities* — fair value is based on market quotes available for issuance of debt with similar terms, which are inputs that are classified as Level 2 in the valuation hierarchy defined above;
- *foreign currency contracts, interest rate swap and collar agreements* — fair values are determined through the use of models that consider various assumptions, including time value, yield curves, as well as other relevant economic measures, which are inputs that are classified as Level 2 in the valuation hierarchy defined above;

Pentair plc and Subsidiaries
Notes to consolidated financial statements

- *deferred compensation plan assets (mutual funds, common/collective trusts and cash equivalents for payment of certain non-qualified benefits for retired, terminated and active employees)* — fair value of mutual funds and cash equivalents are based on quoted market prices in active markets that are classified as Level 1 in the valuation hierarchy defined above; fair value of common/collective trusts are valued at net asset value (“NAV”), which is based on the fair value of the underlying securities owned by the fund and divided by the number of shares outstanding; and
- *contingent earn-out liabilities* — fair value is generally established using a probability-weighted discounted income approach to convert future estimated cash flows to a single present value amount. The related inputs are classified as Level 3 in the valuation hierarchy defined above.

The recorded amounts and estimated fair values of total debt, excluding unamortized issuance costs and discounts, at December 31 were as follows:

<i>In millions</i>	2024		2023	
	Recorded Amount	Fair Value	Recorded Amount	Fair Value
Variable rate debt	\$ 843.8	\$ 843.8	\$ 1,187.5	\$ 1,187.5
Fixed rate debt	819.3	814.3	819.3	824.5
Total debt	\$ 1,663.1	\$ 1,658.1	\$ 2,006.8	\$ 2,012.0

Financial assets and liabilities measured at fair value on a recurring and nonrecurring basis were as follows:

<i>In millions</i>	December 31, 2024				
	Level 1	Level 2	Level 3	NAV	Total
Recurring fair value measurements					
Interest rate contract assets	\$ —	\$ 1.9	\$ —	\$ —	\$ 1.9
Foreign currency contract assets	—	2.5	—	—	2.5
Foreign currency contract liabilities	—	(16.3)	—	—	(16.3)
Deferred compensation plan assets	15.0	—	—	14.4	29.4
Contingent earn-out liabilities	—	—	8.0	—	8.0
Total recurring fair value measurements	\$ 15.0	\$ (11.9)	\$ 8.0	\$ 14.4	\$ 25.5

<i>In millions</i>	December 31, 2023				
	Level 1	Level 2	Level 3	NAV	Total
Recurring fair value measurements					
Interest rate contract assets	\$ —	\$ 0.3	\$ —	\$ —	\$ 0.3
Foreign currency contract assets	—	0.2	—	—	0.2
Foreign currency contract liabilities	—	(70.0)	—	—	(70.0)
Deferred compensation plan assets	12.1	—	—	14.0	26.1
Total recurring fair value measurements	\$ 12.1	\$ (69.5)	\$ —	\$ 14.0	\$ (43.4)

In conjunction with the acquisition of G & F Manufacturing, we recorded an estimated fair value of \$8.0 million of contingent earn-out liabilities, which are considered Level 3 under our fair value hierarchy. The recorded fair value of the associated contingent earn-out liabilities was reviewed as of December 31, 2024, with no further change in fair value. The fair value of the contingent earn-out liabilities will be re-measured for each reporting period until resolution of the contingent earn-out payments, and any resulting changes to fair value would be recorded in earnings.

10. Income Taxes

Income from continuing operations before income taxes consisted of the following:

<i>In millions</i>	Years ended December 31		
	2024	2023	2022
Federal ⁽¹⁾	\$ 1.9	\$ (9.9)	(10.1)
International ⁽²⁾	717.0	628.8	560.7
Income from continuing operations before income taxes	\$ 718.9	\$ 618.9	550.6

⁽¹⁾ “Federal” reflects United Kingdom (“U.K.”) income (loss) from continuing operations before income taxes, given U.K. tax residency.

⁽²⁾ “International” reflects non-U.K. income from continuing operations before income taxes.

The provision (benefit) for income taxes consisted of the following:

<i>In millions</i>	Years ended December 31		
	2024	2023	2022
Currently payable (receivable)			
Federal ⁽¹⁾	\$ 3.0	\$ —	—
International ⁽²⁾	101.7	88.5	112.2
Total current taxes	104.7	88.5	112.2
Deferred			
International ⁽²⁾	(11.4)	(92.5)	(44.8)
Total deferred taxes	(11.4)	(92.5)	(44.8)
Total provision (benefit) for income taxes	\$ 93.3	\$ (4.0)	67.4

⁽¹⁾ “Federal” represents U.K. taxes.

⁽²⁾ “International” represents non-U.K. taxes.

Reconciliations of the federal statutory income tax rate to our effective tax rate were as follows:

<i>Percentages</i>	Years ended December 31		
	2024	2023	2022
U.K. federal statutory income tax rate ⁽¹⁾	25.0 %	23.5 %	19.0 %
Tax effect of international operations ⁽²⁾	(11.5)	(13.2)	(7.6)
Change in valuation allowances	2.0	2.2	1.0
Withholding taxes	1.5	—	—
Excess tax benefits on stock-based compensation	(1.5)	(0.1)	(0.2)
Unrecognized tax benefits	(2.7)	—	—
Worthless stock deduction	—	(5.0)	—
Change in tax basis in foreign assets ⁽³⁾	0.2	(8.0)	—
Effective tax rate	13.0 %	(0.6)%	12.2 %

⁽¹⁾ The U.K. Finance Act of 2021 increased the statutory tax rate from 19.0% to 25.0%, effective April 1, 2023. Given this change, a prorated U.K. federal statutory income tax rate was utilized for 2023.

⁽²⁾ The tax effect of international operations consists of non-U.K. jurisdictions.

⁽³⁾ The 2023 impact primarily represents the initial recognition of tax basis in intangible assets in foreign jurisdictions and the related valuation allowance.

Reconciliations of the beginning and ending gross unrecognized tax benefits were as follows:

<i>In millions</i>	Years ended December 31		
	2024	2023	2022
Beginning balance	\$ 38.6	\$ 39.6	\$ 37.3
Gross increases for tax positions in prior periods	—	0.6	3.6
Gross decreases for tax positions in prior periods	(31.5)	(0.2)	(0.9)
Gross increases based on tax positions related to the current year	0.2	1.6	0.2
Gross decreases related to settlements with taxing authorities	(1.3)	(3.0)	(0.6)
Ending balance	\$ 6.0	\$ 38.6	\$ 39.6

We record gross unrecognized tax benefits in *Other current liabilities* and *Other non-current liabilities* in the Consolidated Balance Sheets. The \$6.0 million of total gross unrecognized tax benefits as of December 31, 2024, if recognized, would impact the effective tax rate. It is reasonably possible that the gross unrecognized tax benefits as of December 31, 2024 may decrease by a range of zero to \$1.0 million during 2025, primarily as a result of the resolution of tax audits.

Based on the outcome of these examinations, or as a result of the expiration of statutes of limitations for specific jurisdictions, it is reasonably possible that certain unrecognized tax benefits for tax positions taken on previously filed tax returns will materially change from those recorded as liabilities in our financial statements. A number of tax periods from 2009 to present are under audit by tax authorities in various jurisdictions, including Belgium, Germany and India. We anticipate that several of these audits may be concluded in the foreseeable future.

We record penalties and interest related to unrecognized tax benefits in *Provision (benefit) for income taxes* and *Net interest expense*, respectively, in the Consolidated Statements of Operations and Comprehensive Income. At December 31, 2024, we have no liabilities for the possible payment of penalties, and at December 31, 2023, we had liabilities of \$0.3 million for the possible payment of penalties. At December 31, 2024 and 2023, we had \$3.9 million and \$6.4 million, respectively, for the possible payment of interest expense, which are recorded in *Other current liabilities* in the Consolidated Balance Sheets.

Deferred taxes arise because of different treatment between financial statement accounting and tax accounting, known as “temporary differences.” We record the tax effect of these temporary differences as “deferred tax assets” (generally items that can be used as a tax deduction or credit in future periods) and “deferred tax liabilities” (generally items for which we received a tax deduction but the tax impact has not yet been recorded in the Consolidated Statements of Operations and Comprehensive Income).

Deferred taxes were recorded in the Consolidated Balance Sheets as follows:

<i>In millions</i>	December 31	
	2024	2023
Other non-current assets	\$ 129.6	\$ 113.2
Deferred tax liabilities	44.4	40.0
Net deferred tax assets	\$ 85.2	\$ 73.2

The tax effects of the major items recorded as deferred tax assets and liabilities were as follows:

<i>In millions</i>	December 31	
	2024	2023
Deferred tax assets		
Accrued liabilities and reserves	\$ 54.8	\$ 58.8
Pension and other post-retirement compensation and benefits	17.5	20.1
Employee compensation and benefits	27.4	28.6
Research and development costs	36.6	28.4
Tax loss and credit carryforwards	691.4	769.4
Interest limitations	214.0	168.4
Total deferred tax assets	1,041.7	1,073.7
Valuation allowance	739.7	816.6
Deferred tax assets, net of valuation allowance	302.0	257.1
Deferred tax liabilities		
Property, plant and equipment	17.1	17.9
Goodwill and other intangibles	177.9	149.7
Other liabilities	21.8	16.3
Total deferred tax liabilities	216.8	183.9
Net deferred tax assets	\$ 85.2	\$ 73.2

As of December 31, 2024, tax loss carryforwards of \$2,852.8 million were available to offset future income. A valuation allowance of \$681.1 million exists for deferred income tax benefits related to the tax loss carryforwards which may not be realized. We believe sufficient taxable income will be generated in the respective jurisdictions to allow us to fully recover the remainder of the tax losses. The tax losses primarily relate to non-U.S. carryforwards of \$2,796.5 million of which \$1,762.4 million are located in jurisdictions with unlimited tax loss carryforward periods, while the remainder will begin to expire in 2025. In addition, there were \$56.3 million of U.S. state tax loss carryforwards as of December 31, 2024. U.S. state tax losses of \$7.3 million are in jurisdictions with unlimited tax loss carryforward periods, while the remainder will expire in future years through 2044.

Deferred taxes in the amount of \$8.0 million have been provided on undistributed earnings of certain subsidiaries. Taxes have not been provided on undistributed earnings of subsidiaries where it is our intention to reinvest these earnings permanently or to repatriate the earnings only when it is tax effective to do so. It is not practicable to estimate the amount of tax that might be payable if such earnings were to be remitted.

The Organization for Economic Co-operation and Development Pillar Two Model Rules (“Pillar Two”) for a global 15.0% minimum tax have been adopted by a number of jurisdictions in which we operate. For the year ended December 31, 2024, the impact of Pillar Two on our consolidated financial statements was not material.

11. Benefit Plans

Pension and other post-retirement plans

We sponsor U.S. and non-U.S. defined-benefit pension and other post-retirement plans. Pension benefits are based principally on an employee's years of service and/or compensation levels near retirement. In addition, we provide certain post-retirement health care and life insurance benefits. Generally, the post-retirement health care and life insurance plans require contributions from retirees.

Obligations and funded status

The following tables present reconciliations of plan benefit obligations, fair value of plan assets and the funded status of pension plans and other post-retirement plans as of and for the years ended December 31, 2024 and 2023:

<i>In millions</i>	Pension plans		Other post-retirement plans	
	2024	2023	2024	2023
Change in benefit obligations				
Benefit obligation beginning of year	\$ 97.5	\$ 90.5	\$ 7.6	\$ 9.0
Service cost	1.7	1.7	—	—
Interest cost	3.9	4.1	0.4	0.5
Settlement ⁽¹⁾	(6.8)	—	—	—
Curtailement ⁽¹⁾	(2.0)	—	—	—
Actuarial (gain) loss ⁽²⁾	(2.7)	7.4	(0.6)	(0.8)
Foreign currency translation	(1.1)	1.1	—	—
Benefits paid	(7.2)	(7.3)	(0.8)	(1.1)
Benefit obligation end of year	\$ 83.3	\$ 97.5	\$ 6.6	\$ 7.6
Change in plan assets				
Fair value of plan assets beginning of year	\$ 30.5	\$ 28.4	\$ —	\$ —
Actual return on plan assets	0.6	0.8	—	—
Company contributions	11.2	7.6	0.8	1.1
Settlement	(6.8)	—	—	—
Foreign currency translation	(0.9)	1.0	—	—
Benefits paid	(7.2)	(7.3)	(0.8)	(1.1)
Fair value of plan assets end of year	\$ 27.4	\$ 30.5	\$ —	\$ —
Funded status				
Benefit obligations in excess of the fair value of plan assets	\$ (55.9)	\$ (67.0)	\$ (6.6)	\$ (7.6)

⁽¹⁾ The settlement and curtailment in 2024 related to a reduction in headcount in one of our pension plans as a result of ongoing transformation initiatives.

⁽²⁾ The actuarial gain in 2024 was primarily due to increases in discount rates to reflect economic conditions at December 31, 2024. The actuarial loss in 2023 was primarily due to declines in discount rates to reflect economic conditions at December 31, 2023.

Amounts recorded in the Consolidated Balance Sheets were as follows:

<i>In millions</i>	Pension plans		Other post-retirement plans	
	2024	2023	2024	2023
Current liabilities	\$ (6.2)	\$ (6.5)	\$ (1.0)	\$ (1.1)
Non-current liabilities	(49.7)	(60.5)	(5.6)	(6.5)
Benefit obligations in excess of the fair value of plan assets	\$ (55.9)	\$ (67.0)	\$ (6.6)	\$ (7.6)

The accumulated benefit obligation for our pension plans was \$82.6 million and \$93.4 million at December 31, 2024 and 2023, respectively.

Pentair plc and Subsidiaries
Notes to consolidated financial statements

Information for pension plans with an accumulated benefit obligation or projected benefit obligation in excess of plan assets as of December 31 was as follows:

<i>In millions</i>	Projected benefit obligation exceeds the fair value of plan assets		Accumulated benefit obligation exceeds the fair value of plan assets	
	2024	2023	2024	2023
Projected benefit obligation	\$ 83.3	\$ 97.5	\$ 83.3	\$ 83.5
Fair value of plan assets	27.4	30.5	27.4	18.8
Accumulated benefit obligation	N/A	N/A	82.6	81.9

Components of net periodic benefit expense for our pension plans for the years ended December 31 were as follows:

<i>In millions</i>	2024	2023	2022
Service cost	\$ 1.7	\$ 1.7	\$ 2.4
Interest cost	3.9	4.1	2.5
Expected return on plan assets	(0.6)	(0.8)	(0.7)
Curtailement	(2.0)	—	—
Net actuarial (gain) loss	(2.9)	7.1	(16.4)
Net periodic benefit expense (income)	\$ 0.1	\$ 12.1	\$ (12.2)

Components of net periodic benefit expense and income for our other post-retirement plans for the years ended December 31, 2024, 2023 and 2022, were not material.

Assumptions

The following table provides the weighted-average assumptions used to determine benefit obligations and net periodic benefit cost as they pertain to our pension and other post-retirement plans.

<i>Percentages</i>	Pension plans			Other post-retirement plans		
	2024	2023	2022	2024	2023	2022
Benefit obligation assumptions						
Discount rate	4.83 %	4.26 %	4.77 %	5.31 %	4.84 %	5.11 %
Rate of compensation increase	3.78 %	3.70 %	3.80 %	N/A	N/A	N/A
Net periodic benefit expense assumptions						
Discount rate	4.26 %	4.77 %	2.21 %	4.84 %	5.11 %	2.34 %
Expected long-term return on plan assets	4.36 %	4.76 %	2.89 %	N/A	N/A	N/A
Rate of compensation increase	3.70 %	3.80 %	3.61 %	N/A	N/A	N/A

Discount rates

The discount rate reflects the current rate at which the pension liabilities could be effectively settled. The discount rate was determined by matching our expected benefit payments to payments from a stream of bonds rated AA or higher available in the marketplace. There are no known or anticipated changes in our discount rate assumptions that will impact our pension expense in 2025.

Expected rates of return

The expected rate of return is designed to be a long-term assumption that may be subject to considerable year-to-year variance from actual returns. In developing the expected long-term rate of return, we considered our historical returns, with consideration given to forecasted economic conditions, our asset allocations, input from external consultants and broader long-term market indices. Pension plan assets yielded gains of 1.97% and 2.82% in 2024 and 2023, respectively, and a loss of 16.86% in 2022.

Pentair plc and Subsidiaries
Notes to consolidated financial statements

Healthcare cost trend rates

The assumed healthcare cost trend rates for other post-retirement plans as of December 31 were as follows:

	2024	2023
Healthcare cost trend rate assumed for following year	7.0 %	6.1 %
Rate to which the cost trend rate is assumed to decline (the ultimate trend rate)	4.0 %	4.0 %
Year the cost trend rate reaches the ultimate trend rate	2035	2046

Pension plans assets

Objective

The primary objective of our investment strategy is to meet the pension obligation to our employees at a reasonable cost to us. This is primarily accomplished through growth of capital and safety of the funds invested.

Asset allocation

Our actual overall asset allocation for our pension plans as compared to our investment policy goals as of December 31 was as follows:

<i>Percentages</i>	Actual		Target	
	2024	2023	2024	2023
Fixed income	70 %	53 %	71 %	53 %
Alternative	29 %	47 %	29 %	47 %
Cash	1 %	— %	— %	— %

Fair value measurement

The fair values of our pension plan assets and their respective levels in the fair value hierarchy as of December 31, 2024 and December 31, 2023 were as follows:

<i>In millions</i>	December 31, 2024			
	Level 1	Level 2	Level 3	Total
Cash and cash equivalents	\$ 0.3	\$ —	\$ —	0.3
Other investments	—	—	8.0	8.0
Total investments at fair value	\$ 0.3	\$ —	8.0	8.3
Investments measured at NAV				19.1
Total			\$	27.4

<i>In millions</i>	December 31, 2023			
	Level 1	Level 2	Level 3	Total
Cash and cash equivalents	\$ 0.2	\$ —	\$ —	0.2
Other investments	—	—	14.2	14.2
Total investments at fair value	\$ 0.2	\$ —	14.2	14.4
Investments measured at NAV				16.1
Total			\$	30.5

Valuation methodologies used for investments measured at fair value were as follows:

- *Cash and cash equivalents* — Cash consists of cash held in bank accounts and is considered a Level 1 investment.
- *Other investments* — Other investments include investments in commingled funds with diversified investment strategies. Investments in commingled funds that were valued based on unobservable inputs due to liquidation restrictions were classified as Level 3.

Activity for our Level 3 pension plan assets held during the year ended December 31, 2024 was as follows:

<i>In millions</i>	December 31, 2024	
Beginning balance	\$	14.2
Actual return on plan assets		0.5
Company contributions		0.7
Benefits received		0.3
Settlement		(6.8)
Foreign currency translation		(0.9)
Ending balance	\$	8.0

Activity for our Level 3 pension plan assets held during the year ended December 31, 2023 was not material.

Cash flows
Contributions
Pension contributions totaled \$11.2 million and \$7.6 million in 2024 and 2023, respectively. We anticipate our 2025 pension contributions to be approximately \$6.8 million. The 2025 expected contributions will equal or exceed our minimum funding requirements.

Estimated future benefit payments
The following benefit payments, which reflect expected future service or payout from termination, as appropriate, are expected to be paid by the plans in each of the next five fiscal years and in the aggregate for the five fiscal years thereafter are as follows:

<i>In millions</i>	Pension plans		Other post-retirement plans	
2025	\$	8.0	\$	1.0
2026		8.3		0.9
2027		8.5		0.8
2028		8.3		0.8
2029		7.9		0.7
2030 - 2034		34.0		2.5

Savings plan
We have a 401(k) plan (the “401(k) plan”) with an employee share ownership (“ESOP”) bonus component, which covers certain union and all non-union U.S. employees who meet certain age requirements. Under the 401(k) plan, eligible U.S. employees may voluntarily contribute a percentage of their eligible compensation. We match contributions made by employees who meet certain eligibility and service requirements. The 401(k) company match contribution is a dollar-for-dollar (100%) matching contribution on up to 5% of employee eligible earnings, contributed as before-tax contributions.

Our expense for the 401(k) plan, including the ESOP, was \$19.7 million, \$19.5 million and \$21.4 million in 2024, 2023 and 2022, respectively.

Other retirement compensation
Total other accrued retirement compensation, primarily related to deferred compensation and supplemental retirement plans, was \$35.7 million and \$32.7 million as of December 31, 2024 and 2023, respectively, and is included in *Pension and other post-retirement compensation and benefits* and *Other non-current liabilities* in the Consolidated Balance Sheets.

12. Shareholders’ Equity

Authorized shares

Our authorized share capital consists of 426.0 million ordinary shares with a par value of \$0.01 per share.

Share repurchases

In December 2020, the Board of Directors authorized the repurchase of our ordinary shares up to a maximum dollar limit of \$750.0 million. This authorization expires on December 31, 2025.

During the year ended December 31, 2023, no ordinary shares were repurchased. During the year ended December 31, 2024, we repurchased 1.6 million of our ordinary shares for \$150.0 million. As of December 31, 2024, we had \$450.0 million available for share repurchases under this authorization.

Dividends payable

On December 16, 2024, the Board of Directors approved a regular quarterly cash dividend of \$0.25 per share that was paid on February 7, 2025 to shareholders of record at the close of business on January 24, 2025. This dividend reflects a 9 percent increase in the Company’s regular cash dividend rate. The balance of dividends payable included in *Other current liabilities* on our Consolidated Balance Sheets was \$41.2 million at December 31, 2024. Dividends paid per ordinary share were \$0.92, \$0.88 and \$0.84 for the years ended December 31, 2024, 2023 and 2022, respectively.

13. Share Plans

Share-based compensation expense

Total share-based compensation expense for 2024, 2023 and 2022 was as follows:

<i>In millions</i>	December 31		
	2024	2023	2022
Stock options	\$ 5.3	\$ 4.3	\$ 3.7
Restricted stock units	16.1	15.0	14.6
Performance share units	18.3	9.8	6.6
Total share-based compensation expense	\$ 39.7	\$ 29.1	\$ 24.9

Share incentive plans

In May 2020, the Pentair plc 2020 Share and Incentive Plan (“2020 Share Plan”) was approved during the Annual General Meeting of Shareholders. The Pentair plc 2012 Stock and Incentive Plan (“2012 Stock Plan”) terminated upon the approval of the 2020 Share Plan, although awards outstanding under the 2012 Stock Plan continue in effect. Beginning May 5, 2020, all share-based compensation grants were made under the 2020 Share Plan.

The 2020 Share Plan authorizes the issuance of 3.3 million of our ordinary shares, plus the number of shares reserved under the 2012 Stock Plan that were not the subject of outstanding awards as of the date the 2020 Share Plan became effective, which was 2.5 million shares, plus certain shares that would become available under the 2012 Stock Plan if it had remained in effect. The shares may be issued as new shares or from shares held in treasury. Our practice is to settle equity-based awards by issuing new shares. The 2020 Share Plan terminates on the date all shares reserved for issuance have been issued. The 2020 Share Plan allows for the granting to our employees, consultants and directors of stock options, stock appreciation rights, performance share units, restricted shares, restricted stock units, deferred stock rights, incentive awards, dividend equivalent units and other equity-based awards.

The 2020 Share Plan is administered by our compensation committee (the “Committee”), which is made up of independent members of our Board of Directors. Employees eligible to receive awards under the 2020 Share Plan are managerial, administrative or professional employees. The Committee has the authority to select the recipients of awards, determine the type and size of awards, establish certain terms and conditions of award grants and take certain other actions as permitted under the 2020 Share Plan. The 2020 Share Plan prohibits the Committee from re-pricing awards or canceling and reissuing awards at lower prices.

Non-qualified and incentive stock options

Under the 2020 Share Plan, we may grant stock options to any eligible employee with an exercise price equal to the market value of the shares on the dates the options were granted. Options generally vest one-third each year over a period of three years commencing on the grant date and expire 10 years after the grant date.

Restricted shares and restricted stock units

Under the 2020 Share Plan, eligible employees may be awarded restricted shares or restricted stock units of our common stock. Restricted shares and restricted stock units generally vest one-third each year over a period of three years commencing on the grant date, subject to continuous employment and certain other conditions. Restricted shares and restricted stock units are valued at market value on the date of grant and are expensed over the vesting period.

Stock appreciation rights, performance shares and performance units

Under the 2020 Share Plan, the Committee is permitted to issue these awards which are generally contingent on the achievement of predetermined performance goals over a vesting period of three years. The Committee has the ability to adjust performance goals or modify the manner of measuring or evaluating a performance goal using its discretion. PSUs are granted to certain employees that vest based on the satisfaction of a service period of three years and the achievement of certain performance metrics over that same period. Upon vesting, PSU holders receive dividends that accumulate during the vesting period. The fair value of these PSUs is determined based on the closing market price of the Company's ordinary shares at the date of grant. Compensation expense is recognized over the period an employee is required to provide service based on the estimated vesting of the PSUs granted. The estimated vesting of the PSUs is based on the probability of achieving certain performance metrics during the vesting period.

Stock options

The following table summarizes stock option activity under all plans for the year ended December 31, 2024:

<i>Shares and intrinsic value in millions</i>	Number of shares	Weighted-average exercise price	Weighted-average remaining contractual life (years)	Aggregate intrinsic value
Outstanding as of January 1, 2024	2.3	\$ 45.07		
Granted	0.2	72.78		
Exercised	(0.8)	40.20		
Outstanding as of December 31, 2024	1.7	\$ 50.35	5.6	\$ 86.8
Options exercisable as of December 31, 2024	1.2	\$ 46.36	4.5	\$ 67.2
Options expected to vest as of December 31, 2024	0.5	\$ 60.38	8.3	\$ 19.2

Fair value of options granted

The weighted average grant date fair value of options granted under the 2020 Share Plan in 2024, 2023 and 2022 was estimated to be \$24.84, \$14.03 and \$17.88 per share, respectively. The total intrinsic value of options that were exercised during 2024, 2023 and 2022 was \$32.0 million, \$5.3 million and \$0.7 million, respectively. At December 31, 2024, the total unrecognized compensation cost related to stock options was \$3.6 million. This cost is expected to be recognized over a weighted average period of 1.9 years.

We estimated the fair value of each stock option award issued in the annual share-based compensation grant using a Black-Scholes option pricing model, modified for dividends and using the following assumptions:

	December 31		
	2024	2023	2022
Risk-free interest rate	4.44 %	4.00 %	1.18 %
Expected dividend yield	1.43 %	2.02 %	1.14 %
Expected share price volatility	30.90 %	30.40 %	29.60 %
Expected term (years)	6.5	6.1	6.4

These estimates require us to make assumptions based on historical results, observance of trends in our share price, changes in option exercise behavior, future expectations and other relevant factors. If other assumptions had been used, share-based compensation expense, as calculated and recorded under the accounting guidance, could have been affected.

We based the expected life assumption on historical experience as well as the terms and vesting periods of the options granted. For purposes of determining expected volatility, we considered a rolling average of historical volatility measured over a period approximately equal to the expected option term. The risk-free rate for periods that coincide with the expected life of the options is based on the U.S. Treasury Department yield curve in effect at the time of grant.

Cash received from option exercises for the years ended December 31, 2024, 2023 and 2022 was \$28.5 million, \$16.0 million and \$2.5 million, respectively. The tax benefit related to options exercised was \$6.7 million, \$1.0 million and \$0.1 million for the years ended December 31, 2024, 2023 and 2022, respectively.

Restricted stock units

The following table summarizes restricted stock unit activity under all plans for the year ended December 31, 2024:

<i>Shares in millions</i>	Number of shares	Weighted average grant date fair value
Outstanding as of January 1, 2024	0.6 \$	53.88
Granted	0.3	75.88
Vested	(0.3)	54.93
Forfeited	(0.1)	62.86
Outstanding as of December 31, 2024	0.5 \$	62.93

As of December 31, 2024, there was \$18.4 million of unrecognized compensation cost related to restricted share compensation arrangements granted under the 2020 Plan and previous plans. That cost is expected to be recognized over a weighted-average period of 0.8 years. The total fair value of shares vested during the years ended December 31, 2024, 2023 and 2022, was \$14.9 million, \$17.6 million and \$11.7 million, respectively. The tax benefit related to restricted stock units vested was \$3.4 million, \$2.7 million and \$2.1 million for the years ended December 31, 2024, 2023 and 2022, respectively.

Performance share units

The following table summarizes performance share unit activity under all plans for the year ended December 31, 2024:

<i>Shares in millions</i>	Number of shares	Weighted average grant date fair value
Outstanding as of January 1, 2024	0.4 \$	54.06
Granted	0.2	71.97
Vested	(0.2)	52.41
Outstanding as of December 31, 2024	0.4 \$	59.68

The expense recognized each period is dependent upon our estimate of the number of shares that will ultimately be issued. As of December 31, 2024, there was \$15.8 million of unrecognized compensation cost related to performance share compensation arrangements granted under the 2020 Plan and previous plans. That cost is expected to be recognized over a weighted-average period of 1.2 years. The tax benefits related to performance share units were \$0.9 million for the years ended December 31, 2024 and 2023, and \$0.3 million for the year ended December 31, 2022.

14. Segment Information

At Pentair, our chief operating decision maker (“CODM”) is our President and Chief Executive Officer. We define our reportable segments on the basis of the way in which internally reported financial information is regularly reviewed by the CODM to analyze financial performance, make decisions and allocate resources. Based on this, we classify our operations into the following reportable segments:

- **Flow** — The focus of this segment is to deliver water where it is needed, when it is needed, more efficiently and to transform waste into value. This segment designs, manufactures and sells a variety of fluid treatment and pump products and systems, including pressure vessels, gas recovery solutions, membrane bioreactors, wastewater reuse systems and advanced membrane filtration, separation systems, water disposal pumps, water supply pumps, fluid transfer pumps, turbine pumps, solid handling pumps, and agricultural spray nozzles, while serving the global residential, commercial and industrial markets. These products and systems are used in a range of applications, including fluid delivery, ion exchange, desalination, food and beverage, separation technologies for the oil and gas industry, residential and municipal wells, water treatment, wastewater solids handling, pressure boosting, circulation and transfer, fire suppression, flood control, agricultural irrigation and crop spray.

- **Water Solutions** — The focus of this segment is to provide great tasting, higher-quality water and ice while helping people use water more productively. This segment designs, manufactures and sells commercial and residential water treatment products and systems including pressure tanks, control valves, activated carbon products, commercial ice machines, conventional filtration products, and point-of-entry and point-of-use water treatment systems. These water treatment products and systems are used in residential whole home water filtration, drinking water filtration and water softening solutions in addition to commercial total water management and filtration in foodservice operations. In addition, our water solutions business also provides installation and preventative services for water management solutions for commercial operators.
- **Pool** — The focus of this segment is to provide innovative, energy-efficient pool solutions to help people more sustainably enjoy water. This segment designs, manufactures and sells a complete line of energy-efficient residential and commercial pool equipment and accessories including pumps, filters, heaters, lights, automatic controls, automatic cleaners, maintenance equipment and pool accessories. Applications for our pool products include residential and commercial pool maintenance, pool repair, renovation, service, construction and aquaculture solutions.

Our CODM evaluates our reportable segments' performance based on net sales and reportable segment income and uses certain ratios, particularly return on sales, to measure their performance. Additionally, these measures are used to evaluate reinvestment of profits into our reportable segments or into other parts of the Company, such as for acquisitions, debt repayments, dividend payments or share repurchases. These results are not necessarily indicative of the results of operations that would have occurred had each segment been an independent, stand-alone entity during the periods presented. Reportable segment income represents operating income of each reportable segment inclusive of equity income of unconsolidated subsidiaries and exclusive of intangible amortization, certain acquisition related expenses, costs of restructuring and transformation activities, impairments, legal accrual adjustments and settlements and other unusual non-operating items. "Corporate and other" activity primarily consists of corporate expenses not allocated to the segments, including executive office, board of directors, and centrally-managed corporate functional or shared service costs related to finance, human resources, communications and corporate development. These activities do not meet the criteria for a stand-alone reportable segment under accounting standards codification ("ASC") 280.

Financial information by reportable segment as well as a reconciliation of reportable segment income to consolidated income from continuing operations before income taxes is as follows:

<i>In millions</i>	2024	2023	2022	2024	2023	2022	2024	2023	2022
	Identifiable assets ⁽¹⁾			Capital expenditures			Depreciation		
Flow	\$ 1,590.7	\$ 1,709.7	\$ 1,722.4	\$ 20.1	\$ 19.6	\$ 24.0	\$ 21.4	\$ 21.1	\$ 19.5
Water Solutions	2,613.5	2,695.2	2,786.4	22.3	23.0	24.7	17.1	18.1	18.4
Pool	1,801.3	1,679.8	1,710.3	17.1	17.3	28.8	13.1	11.4	8.9
Reportable segment total	6,005.5	6,084.7	6,219.1	59.5	59.9	77.5	51.6	50.6	46.8
Corporate and other	441.0	478.6	228.4	14.9	16.1	7.7	8.7	8.9	7.3
Consolidated	\$ 6,446.5	\$ 6,563.3	\$ 6,447.5	\$ 74.4	\$ 76.0	\$ 85.2	\$ 60.3	\$ 59.5	\$ 54.1

⁽¹⁾ All cash and cash equivalents are included in "Corporate and other."

Pentair plc and Subsidiaries
Notes to consolidated financial statements

2024					
<i>In millions</i>	Flow	Water Solutions	Pool	Total	
Net sales	\$ 1,514.0	\$ 1,131.0	\$ 1,436.1	\$ 4,081.1	
<i>Reconciliation of consolidated net sales</i>					
Corporate and other				1.7	
Total consolidated net sales ⁽¹⁾				<u>\$ 4,082.8</u>	
Cost of goods sold ⁽²⁾⁽⁴⁾	(965.1)	(706.8)	(799.3)		
Operating expenses ⁽²⁾⁽³⁾⁽⁴⁾	(230.8)	(169.1)	(160.3)		
Reportable segment income	\$ 318.1	\$ 255.1	\$ 476.5	1,049.7	
Corporate and other				(90.5)	
Restructuring and other				(37.0)	
Transformation costs				(52.1)	
Pension and other post-retirement mark-to-market gain				5.3	
Asset impairment and write-offs				(17.6)	
Legal accrual adjustments and settlements				7.5	
Intangible amortization				(54.3)	
Interest expense, net				(88.6)	
Other expense				(3.5)	
Income from continuing operations before income taxes				<u>\$ 718.9</u>	

⁽¹⁾ One customer in the Pool business represented approximately 15% of our consolidated net sales in 2024.

⁽²⁾ The significant expense categories and amounts align with the segment-level information that is regularly provided to the CODM, which includes certain corporate overhead allocations directly attributable to each of the segments.

⁽³⁾ Operating expenses include selling, general, administrative, research and development costs which primarily consist of non-manufacturing employee compensation, non-manufacturing overhead and professional service costs as well as depreciation expense.

⁽⁴⁾ These costs exclude certain expenses reported in the Consolidated Statements of Operations and Comprehensive Income, including costs that are reflected in "Corporate and other" and expenses excluded from reportable segment income as defined above.

2023					
<i>In millions</i>	Flow	Water Solutions	Pool	Total	
Net sales	\$ 1,582.1	\$ 1,177.2	\$ 1,343.6	\$ 4,102.9	
<i>Reconciliation of consolidated net sales</i>					
Corporate and other				1.6	
Total consolidated net sales ⁽¹⁾				<u>\$ 4,104.5</u>	
Cost of goods sold ⁽²⁾⁽⁴⁾	(1,054.7)	(752.5)	(775.2)		
Operating expenses ⁽²⁾⁽³⁾⁽⁴⁾	(245.1)	(177.1)	(151.4)		
Reportable segment income	\$ 282.3	\$ 247.6	\$ 417.0	946.9	
Corporate and other				(91.8)	
Restructuring and other				(3.4)	
Transformation costs				(44.3)	
Pension and other post-retirement mark-to-market loss				(6.1)	
Asset impairment and write-offs				(7.9)	
Legal accrual adjustments and settlements				(2.2)	
Intangible amortization				(55.3)	
Interest expense, net				(118.3)	
Other income				1.3	
Income from continuing operations before income taxes				<u>\$ 618.9</u>	

⁽¹⁾ One customer in the Pool business represented approximately 15% of our consolidated net sales in 2023.

⁽²⁾ The significant expense categories and amounts align with the segment-level information that is regularly provided to the CODM, which includes certain corporate overhead allocations directly attributable to each of the segments.

⁽³⁾ Operating expenses include selling, general, administrative, research and development costs which primarily consist of non-manufacturing employee compensation, non-manufacturing overhead and professional service costs as well as depreciation expense.

⁽⁴⁾ These costs exclude certain expenses reported in the Consolidated Statements of Operations and Comprehensive Income, including costs that are reflected in "Corporate and other" and expenses excluded from reportable segment income as defined above.

Pentair plc and Subsidiaries
Notes to consolidated financial statements

<i>In millions</i>	2022			
	Flow	Water Solutions	Pool	Total
Net sales	\$ 1,500.8	\$ 986.8	\$ 1,632.7	\$ 4,120.3
<i>Reconciliation of consolidated net sales</i>				
Corporate and other				1.5
Total consolidated net sales ⁽¹⁾				<u>\$ 4,121.8</u>
Cost of goods sold ⁽²⁾⁽⁴⁾	(1,041.5)	(672.5)	(1,009.8)	
Operating expenses ⁽²⁾⁽³⁾⁽⁴⁾	(217.0)	(165.3)	(160.8)	
Reportable segment income	\$ 242.3	\$ 149.0	\$ 462.1	853.4
Corporate and other				(85.7)
Restructuring and other				(32.4)
Transformation costs				(27.2)
Inventory step-up				(5.8)
Pension and other post-retirement mark-to-market gain				17.5
Asset impairment and write-offs				(25.6)
Russia business exit impact				(4.7)
Deal-related costs and expenses				(22.2)
Legal accrual adjustments and settlements				(0.2)
Intangible amortization				(52.5)
Interest expense, net				(61.8)
Other expense				(2.2)
Income from continuing operations before income taxes				<u>\$ 550.6</u>

⁽¹⁾ One customer in the Pool business represented approximately 20% of our consolidated net sales in 2022.

⁽²⁾ The significant expense categories and amounts align with the segment-level information that is regularly provided to the CODM, which includes certain corporate overhead allocations directly attributable to each of the segments.

⁽³⁾ Operating expenses include selling, general, administrative, research and development costs which primarily consist of non-manufacturing employee compensation, non-manufacturing overhead and professional service costs as well as depreciation expense.

⁽⁴⁾ These costs exclude certain expenses reported in the Consolidated Statements of Operations and Comprehensive Income, including costs that are reflected in "Corporate and other" and expenses excluded from reportable segment income as defined above.

15. Commitments and Contingencies

Legal proceedings

We have been, and in the future may be, made parties to a number of actions filed or have been, and in the future may be, given notice of potential claims relating to the conduct of our business, including those relating to commercial, regulatory or contractual disputes with suppliers, authorities, customers or parties to acquisitions and divestitures, intellectual property matters, environmental, asbestos, safety and health matters, product liability, the use or installation of our products, consumer matters, and employment and labor matters.

While we believe that a material impact on our consolidated financial position, results of operations or cash flows from any such future claims or potential claims is unlikely, given the inherent uncertainty of litigation, a remote possibility exists that a future adverse ruling or unfavorable development could result in future charges that could have a material adverse impact. We do and will continue to periodically reexamine our estimates of probable liabilities and any associated expenses and receivables and make appropriate adjustments to such estimates based on experience and developments in litigation and applicable accounting rules. As a result, the current estimates of the potential impact on our consolidated financial position, results of operations and cash flows for the proceedings and claims described in the notes to our consolidated financial statements could change in the future.

Environmental matters

We have been named as defendant, target or a potentially responsible party in a number of environmental clean-ups relating to our current or former business units. Accruals for environmental matters are recorded on a site-by-site basis when it is probable that a liability has been incurred and the amount of the liability can be reasonably estimated, based on current law and existing technologies. It can be difficult to estimate reliably the final costs of investigation and remediation due to various factors. In our opinion, the amounts accrued are appropriate based on facts and circumstances as currently known. As of December 31, 2024 and 2023, our recorded reserves for environmental matters were not material.

Product liability claims

We are subject to various product liability lawsuits and personal injury claims. A substantial number of these lawsuits and claims are insured and accrued for by Penwald, our captive insurance subsidiary. Penwald records a liability for these claims based on actuarial projections of ultimate losses. For all other claims, accruals covering the claims are recorded, on an undiscounted basis, when it is probable that a liability has been incurred and the amount of the liability can be reasonably estimated based on existing information. The accruals are adjusted periodically as additional information becomes available. We have not experienced significant unfavorable trends in either the severity or frequency of product liability lawsuits or personal injury claims.

Leases

Our lease portfolio principally consists of operating leases related to facilities, machinery, equipment and vehicles. Our accounting for lease terms does not include options to extend or terminate the lease until we are reasonably certain that we will exercise that option. Operating lease cost for lease payments is recognized on a straight-line basis over the lease term and principally consists of fixed payments for base rent.

These operating lease right-of-use (“ROU”) assets are included in *Other non-current assets* on the Consolidated Balance Sheets, and represent our right to use the underlying asset for the lease term. Our obligation to make lease payments arising from the lease are included in *Other current liabilities* and *Other non-current liabilities* on the Consolidated Balance Sheets. Lease ROU assets and liabilities are recognized at commencement date based on the present value of lease payments over the lease term. As we cannot readily determine the rate implicit in the lease, we use our incremental borrowing rate, determined by country of lease origin, based on the anticipated lease term at the commencement date in determining the present value of lease payments. The ROU asset also excludes any accrued lease payments and unamortized lease incentives.

For measurement and classification of lease agreements, we group lease and non-lease components into a single lease component for all underlying asset classes. Accordingly, all costs associated with a lease contract are accounted for as one lease cost.

The components of lease cost were as follows:

<i>In millions</i>	December 31	
	2024	2023
Operating lease cost	\$ 50.3	\$ 49.7
Sublease income	(0.9)	(0.9)
Total lease cost	\$ 49.4	\$ 48.8

Supplemental cash flow information related to leases was as follows:

<i>In millions</i>	December 31	
	2024	2023
Operating cash flows from operating leases	\$ 36.3	\$ 35.5
Right-of-use assets obtained in exchange for lease obligations	\$ 22.4	\$ 14.0

Other information related to leases was as follows:

	December 31	
	2024	2023
Weighted-average remaining lease term of operating leases (years)	6.0	6.2
Weighted-average discount rate of operating leases	5.6 %	5.7 %

Pentair plc and Subsidiaries
Notes to consolidated financial statements

Future minimum lease commitments under non-cancelable operating leases as of December 31, 2024 were as follows:

<i>In millions</i>	
2025	\$ 31.2
2026	27.7
2027	20.7
2028	15.2
2029	11.1
Thereafter	35.9
Total lease payments	141.8
Less: imputed interest	(22.7)
Total	\$ 119.1

Warranties and guarantees

In connection with the disposition of our businesses or product lines, we may agree to indemnify purchasers for various potential liabilities relating to the sold business, such as pre-closing tax, product liability, warranty, environmental, or other obligations. The subject matter, amounts and duration of any such indemnification obligations vary for each type of liability indemnified and may vary widely from transaction to transaction.

Generally, the maximum obligation under such indemnifications is not explicitly stated and as a result, the overall amount of these obligations cannot be reasonably estimated. Historically, we have not made significant payments for these indemnifications. We believe that if we were to incur a loss in any of these matters, the loss would not have a material effect on our financial position, results of operations or cash flows.

We recognize, at the inception of a guarantee, a liability for the fair value of the obligation undertaken in issuing the guarantee. In connection with the disposition of the Valves & Controls business, we agreed to indemnify Emerson Electric Co. for certain pre-closing tax liabilities. We have recorded a liability representing the fair value of our expected future obligation for this matter.

We provide service and warranty policies on our products. Liability under service and warranty policies is based upon a review of historical warranty and service claim experience. Adjustments are made to accruals as claim data and historical experience warrant.

The changes in the carrying amount of service and product warranties from continuing operations were as follows:

<i>In millions</i>	Years ended December 31		
	2024	2023	2022
Beginning balance	\$ 65.0	\$ 63.1	\$ 40.5
Service and product warranty provision	87.0	90.0	85.3
Payments	(84.2)	(88.2)	(70.4)
Acquisitions	—	—	8.0
Foreign currency translation	(0.6)	0.1	(0.3)
Ending balance	\$ 67.2	\$ 65.0	\$ 63.1

Stand-by letters of credit, bank guarantees and bonds

In certain situations, Tyco International Ltd., Pentair Ltd.'s former parent company ("Tyco"), guaranteed performance by the flow control business of Pentair Ltd. ("Flow Control") to third parties or provided financial guarantees for financial commitments of Flow Control. In situations where Flow Control and Tyco were unable to obtain a release from these guarantees in connection with the spin-off of Flow Control from Tyco, we will indemnify Tyco for any losses it suffers as a result of such guarantees.

In the ordinary course of business, we are required to commit to bonds, letters of credit and bank guarantees that require payments to our customers for any non-performance. The outstanding face value of these instruments fluctuates with the value of our projects in process and in our backlog. In addition, we issue financial stand-by letters of credit primarily to secure our performance to third parties under self-insurance programs.

As of December 31, 2024 and 2023, the outstanding value of bonds, letters of credit and bank guarantees totaled \$102.1 million and \$124.3 million, respectively.

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

ITEM 9A. CONTROLS AND PROCEDURES

Our management, with the participation of our Chief Executive Officer and our Chief Financial Officer, evaluated the effectiveness of the design and operation of our disclosure controls and procedures as of the end of the year ended December 31, 2024, pursuant to Rule 13a-15(b) of the Securities Exchange Act of 1934 (“the Exchange Act”). Based upon their evaluation, our Chief Executive Officer and our Chief Financial Officer concluded that our disclosure controls and procedures were effective as of the year ended December 31, 2024 to ensure that information required to be disclosed by us in the reports we file or submit under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the Securities and Exchange Commission’s rules and forms and to ensure that information required to be disclosed by us in the reports we file or submit under the Exchange Act is accumulated and communicated to our management, including our principal executive and principal financial officers, as appropriate to allow timely decisions regarding required disclosures.

Management’s Annual Report on Internal Control Over Financial Reporting

The report of management required under this ITEM 9A is contained in ITEM 8 of this Annual Report on Form 10-K under the caption “Management’s Report on Internal Control Over Financial Reporting.”

Attestation Report of Independent Registered Public Accounting Firm

The attestation report required under this ITEM 9A is contained in ITEM 8 of this Annual Report on Form 10-K under the caption “Report of Independent Registered Public Accounting Firm.”

Changes in Internal Control Over Financial Reporting

There was no change in our internal control over financial reporting that occurred during the quarter ended December 31, 2024 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

During 2024, we began a multi-year implementation of our new global enterprise resource planning (“ERP”) system at two locations within our Pool segment. Ultimately, this ERP system will modernize several of our existing operating and transactional financial systems. We believe this implementation will enhance our internal control over financial reporting due to improved operational functionality and further integration of related processes. We will continue to monitor our internal control over financial reporting for effectiveness throughout this implementation.

ITEM 9B. OTHER INFORMATION

- (b) During the fourth quarter of 2024, none of our directors or Section 16 officers adopted or terminated a “Rule 10b5-1 trading arrangement” or “non-Rule 10b5-1 trading arrangement” (as each term is defined in Item 408(a) of Regulation S-K).

ITEM 9C. DISCLOSURE REGARDING FOREIGN JURISDICTIONS THAT PREVENT INSPECTIONS

Not applicable.

PART III

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

Information required under this item with respect to directors is contained in our Proxy Statement for our 2025 annual general meeting of shareholders under the captions “Corporate Governance Matters” and “Proposal 1 Re-elect Director Nominees” and is incorporated herein by reference.

Information required under this item with respect to executive officers is contained in Part I of this Form 10-K under the caption “Information About Our Executive Officers.”

Our Board of Directors has adopted Pentair’s Code of Business Conduct and Ethics and designated it as the code of ethics for the Company’s Chief Executive Officer and senior financial officers. The Code of Business Conduct and Ethics also applies to all employees and directors in accordance with New York Stock Exchange Listing Standards. We have posted a copy of Pentair’s Code of Business Conduct and Ethics on our website at <http://pentair.com/en/about-us/leadership/corporate-governance>. We intend to satisfy the disclosure requirements under Item 5.05 of Form 8-K regarding amendments to or waivers from, Pentair’s Code of Business Conduct and Ethics by posting such information on our website at <http://pentair.com/en/about-us/leadership/corporate-governance>.

Information required under this item with respect to our Insider Trading Policy is contained in our Proxy Statement for our 2025 annual general meeting of shareholders under the caption “Insider Trading Policy, Including Prohibiting Hedging and Pledging Policies” and is incorporated herein by reference.

We are not including the information contained on our website as part of, or incorporating it by reference into, this report.

ITEM 11. EXECUTIVE COMPENSATION

Information required under this item is contained in our Proxy Statement for our 2025 annual general meeting of shareholders under the captions “Compensation Discussion and Analysis,” “Compensation Committee Report,” “Executive Compensation Tables,” “CEO Pay Ratio” and “Corporate Governance - Director Compensation” and is incorporated herein by reference.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

Information required under this item with respect to security ownership is contained in our Proxy Statement for our 2025 annual general meeting of shareholders under the caption “Security Ownership” and is incorporated herein by reference.

The following table summarizes, as of December 31, 2024, information about compensation plans under which our equity securities are authorized for issuance:

Plan category	Number of securities to be issued upon exercise of outstanding options, warrants and rights (a)	Weighted-average exercise price of outstanding options, warrants and rights (b)	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a)) (c)
Equity compensation plans approved by security holders:			
2020 Share and Incentive Plan	1,863,797 ⁽¹⁾	\$ 57.90 ⁽²⁾	3,882,395 ⁽³⁾
2012 Stock and Incentive Plan	823,881 ⁽⁴⁾	40.99 ⁽²⁾	— ⁽⁵⁾
Total	2,687,678	\$ 50.04 ⁽²⁾	3,882,395

⁽¹⁾ Consists of 947,848 shares subject to stock options, 480,918 shares subject to restricted stock units, and 435,031 shares subject to performance share awards.

⁽²⁾ Represents the weighted average exercise price of outstanding stock options and does not consider outstanding restricted stock units or performance share units.

⁽³⁾ Represents securities remaining available for issuance under the 2020 Share and Incentive Plan.

⁽⁴⁾ Consists of 823,881 shares subject to stock options and no shares subject to restricted stock units or performance share awards.

⁽⁵⁾ The 2012 Stock and Incentive Plan was terminated in 2020. Stock options and restricted stock units previously granted under the 2012 Stock and Incentive Plan remain outstanding, but no further options or shares may be granted under this plan.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

Information required under this item is contained in our Proxy Statement for our 2025 annual general meeting of shareholders under the captions “Proposal 1 Re-Elect Director Nominees - Director Independence” and “Corporate Governance - Other Governance Policies and Practices - Policies and Procedures Regarding Related Person Transactions” and is incorporated herein by reference.

ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

Information required under this item is contained in our Proxy Statement for our 2025 annual general meeting of shareholders under the caption “Proposal 3 Ratify, by Nonbinding, Advisory Vote, the Appointment of Deloitte & Touche LLP as the Independent Auditor of Pentair plc and to Authorize, by Binding Vote, the Audit and Finance Committee of the Board of Directors to Set the Auditor’s Remuneration” and is incorporated herein by reference. Deloitte & Touche LLP (PCAOB ID No. 34) is our principal accountant.

PART IV

ITEM 15. EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

(a) List of documents filed as part of this report:

(1) Financial Statements

Consolidated Statements of Operations and Comprehensive Income for the years ended December 31, 2024, 2023 and 2022

Consolidated Balance Sheets as of December 31, 2024 and 2023

Consolidated Statements of Cash Flows for the years ended December 31, 2024, 2023 and 2022

Consolidated Statements of Changes in Equity for the years ended December 31, 2024, 2023 and 2022

Notes to Consolidated Financial Statements

(2) Financial Statement Schedule

None.

All other schedules for which provision is made in the applicable accounting regulations of the Securities and Exchange Commission have been omitted because they are not applicable or the required information is shown in the financial statements or notes thereto.

(3) Exhibits

The exhibits of this Annual Report on Form 10-K included herein are set forth below.

Exhibit Number	Exhibit
<u>3.1</u>	Amended and Restated Memorandum and Articles of Association of Pentair plc (Incorporated by reference to Exhibit 3.1 to the Current Report on Form 8-K of Pentair plc filed with the Commission on May 9, 2017 (File No. 001-11625)).
<u>4.1</u>	Amended and Restated Credit Agreement, dated as of December 16, 2021, among Pentair plc, Pentair Finance S.à r.l., Pentair, Inc. and the lenders and agents party thereto (Incorporated by reference to Exhibit 4.1 to the Current Report on Form 8-K of Pentair plc filed with the Commission on December 20, 2021 (File No. 001-11625)).
<u>4.2</u>	Amendment No. 1, dated as of December 23, 2022, to Amended and Restated Credit Agreement, dated as of December 16, 2021, among Pentair plc, Pentair Finance S.à r.l., Pentair, Inc. and the lenders and agents party thereto (Incorporated by reference to Exhibit 4.2 to the Annual Report on Form 10-K of Pentair plc for the year ended December 31, 2022 (File No. 001-11625)).
<u>4.3</u>	Indenture, dated as of September 16, 2015, among Pentair Finance S.A. (as Issuer), Pentair plc (as Parent and Guarantor), Pentair Investments Switzerland GmbH (as Guarantor) and U.S. Bank National Association (as Trustee) (Incorporated by reference to Exhibit 4.1 to the Current Report on Form 8-K of Pentair plc filed with the Commission on September 16, 2015 (File No. 001-11625)).
<u>4.4</u>	Third Supplemental Indenture, dated as of September 16, 2015, among Pentair Finance S.A. (as Issuer), Pentair plc (as Parent and Guarantor), Pentair Investments Switzerland GmbH (as Guarantor) and U.S. Bank National Association (as Trustee) (Incorporated by reference to Exhibit 4.4 to the Current Report on Form 8-K of Pentair plc filed with the Commission on September 16, 2015 (File No. 001-11625)).
<u>4.5</u>	Fifth Supplemental Indenture, dated as of May 26, 2017, among Pentair Finance S.A., Pentair plc, Pentair Investments Switzerland GmbH and U.S. Bank National Association, as trustee (Incorporated by reference to Exhibit 4.3 to the Current Report on Form 8-K of Pentair plc filed with the Commission on May 31, 2017 (File No. 001-11625)).
<u>4.6</u>	Sixth Supplemental Indenture, dated as of June 21, 2019, among Pentair Finance S.à r.l. (as Issuer), Pentair plc (as Parent and Guarantor), Pentair Investments Switzerland GmbH (as Guarantor) and U.S. Bank National Association (as Trustee) (Incorporated by reference to Exhibit 4.2 to the Current Report on Form 8-K of Pentair plc filed with the Commission on June 21, 2019 (File No. 001-11625)).

- [4.7](#) Seventh Supplemental Indenture, dated as of June 22, 2020, among Pentair Finance S.à r.l. (as Issuer), Pentair plc (as Parent and Guarantor), Pentair Investments Switzerland GmbH (as Guarantor) and U.S. Bank National Association (as Trustee) (Incorporated by reference to Exhibit 4.2 to the Quarterly Report on Form 10-Q of Pentair plc filed with the Commission on July 23, 2020 (File No. 001-11625)).
- [4.8](#) Eighth Supplemental Indenture, dated as of July 8, 2022, among Pentair Finance S.à r.l., Pentair plc and U.S. Bank Trust Company, National Association, as trustee (Incorporated by reference to Exhibit 4.3 to the Current Report on Form 8-K of Pentair plc filed with the Commission on July 8, 2022 (File No. 001-11625)).
- [4.9](#) Loan Agreement, dated as of March 24, 2022, among Pentair plc, Pentair Finance S.à r.l., and the lenders and agents party thereto (Incorporated by reference to Exhibit 4.1 to the Current Report on Form 8-K of Pentair plc filed with the Commission on March 25, 2022 (File No. 001-11625)).
- [4.10](#) Amendment No. 1, dated as of June 30, 2022, to Loan Agreement, among Pentair plc, Pentair Finance S.à r.l., and the lenders and agents party thereto (Incorporated by reference to Exhibit 4.1 to the Current Report on Form 8-K of Pentair plc filed with the Commission on June 30, 2022 (File No. 001-11625)).
- [4.11](#) Description of Securities.
- [10.1](#) Pentair plc 2012 Stock and Incentive Plan, as amended and restated effective as of January 1, 2017. (Incorporated by reference to Exhibit 10.2 to the Annual Report on Form 10-K of Pentair plc for the year ended December 31, 2016 (File No. 001-11625)).*
- [10.2](#) Form of Executive Officer Stock Option Grant Agreement for grants made prior to January 1, 2017 (Incorporated by reference to Exhibit 10.7 in the Current Report on Form 8-K of Pentair plc filed with the Commission on June 3, 2014 (File No. 001-11625)).*
- [10.3](#) Form of Non-Employee Director Stock Option Grant Agreement (Incorporated by reference to Exhibit 10.10 in the Current Report on Form 8-K of Pentair plc filed with the Commission on June 3, 2014 (File No. 001-11625)).*
- [10.4](#) Form of Key Executive Employment and Severance Agreement for John L. Stauch (Incorporated by reference to Exhibit 10.1 in the Quarterly Report on Form 10-Q of Pentair plc for the quarter ended June 30, 2018 (File No. 001-11625)).*
- [10.5](#) Form of Key Executive Employment and Severance Agreement for Karla C. Robertson, Philip M. Rolchigo, Robert P. Fishman, Jerome O. Pedretti and Stephen J. Pilla (Incorporated by reference to Exhibit 10.3 in the Quarterly Report on Form 10-Q of Pentair plc for the quarter ended June 30, 2018 (File No. 001-11625)).*
- [10.6](#) Amendment to Key Executive Employment and Severance Agreement, as of January 1, 2021, for John L. Stauch, Karla C. Robertson, Philip M. Rolchigo, Robert P. Fishman, Jerome O. Pedretti and Stephen J. Pilla (Incorporated by reference to Exhibit 10.7 to the Annual Report on Form 10-K of Pentair plc for the year ended December 31, 2023 (File No. 001-11625)).*
- [10.7](#) Form of Key Executive Employment and Severance Agreement for Adrian C. Chiu, Tanya L. Hooper and De'Mon L. Wiggins (Incorporated by reference to Exhibit 10.8 to the Annual Report on Form 10-K of Pentair plc for the year ended December 31, 2021 (File No. 001-11625)).*
- [10.8](#) Amendment to Key Executive Employment and Severance Agreement, as of November 30, 2023, for John L. Stauch, Karla C. Robertson, Philip M. Rolchigo, Robert P. Fishman, Jerome O. Pedretti, Stephen J. Pilla, Adrian C. Chiu, Tanya L. Hooper and De'Mon L. Wiggins (Incorporated by reference to Exhibit 10.9 to the Annual Report on Form 10-K of Pentair plc for the year ended December 31, 2023 (File No. 001-11625)).*
- [10.9](#) Pentair plc Compensation Plan for Non-Employee Directors, as amended and restated (Incorporated by reference to Exhibit 10.6 in the Current Report on Form 8-K of Pentair plc filed with the Commission on June 3, 2014 (File No. 001-11625)).*
- [10.10](#) Pentair plc Employee Stock Purchase and Bonus Plan, as amended and restated effective as of January 1, 2021. (Incorporated by reference to Exhibit 10.11 to the Annual Report on Form 10-K of Pentair plc for the year ended December 31, 2020 (File No. 001-11625)).*
- [10.11](#) Pentair, Inc. Non-Qualified Deferred Compensation Plan, as amended and restated (Incorporated by reference to Exhibit 10.17 to the Annual Report on Form 10-K of Pentair plc for the year ended December 31, 2018 (File No. 001-11625)).*
- [10.12](#) Trust Agreement for Pentair, Inc. Non-Qualified Deferred Compensation Plan between Pentair, Inc. and Fidelity Management Trust Company (Incorporated by reference to Exhibit 10.18 contained in the Annual Report on Form 10-K of Pentair, Inc. for the year ended December 31, 1995 (File No. 000-04689)).*
- [10.13](#) Pentair, Inc. Supplemental Executive Retirement Plan effective January 1, 2009, as amended and restated (Incorporated by reference to Exhibit 10.13 in the Current Report on Form 8-K of Pentair plc filed with the Commission on June 3, 2014 (File No. 001-11625)).*

- [10.14](#) Pentair, Inc. Restoration Plan effective January 1, 2009, as amended and restated (Incorporated by reference to Exhibit 10.14 in the Current Report on Form 8-K of Pentair plc filed with the Commission on June 3, 2014 (File No. 001-11625)).*
- [10.15](#) Form of Deed of Indemnification for directors and executive officers of Pentair plc (Incorporated by reference to Exhibit 10.15 in the Current Report on Form 8-K of Pentair plc filed with the Commission on June 3, 2014 (File No. 001-11625)).*
- [10.16](#) Form of Indemnification Agreement for directors and executive officers of Pentair plc (Incorporated by reference to Exhibit 10.16 in the Current Report on Form 8-K of Pentair plc filed with the Commission on June 3, 2014 (File No. 001-11625)).*
- [10.17](#) Form of Executive Officer Stock Option Grant Agreement for grants made on or after January 1, 2017 and prior to February 26, 2018 (Incorporated by reference to Exhibit 10.31 to the Annual Report on Form 10-K of Pentair plc for the year ended December 31, 2016 (File No. 001-11625)).*
- [10.18](#) Form of Executive Officer Stock Option Award Agreement for grants made on or after February 26, 2018 and prior to May 5, 2020 (Incorporated by reference to Exhibit 10.4 to the Quarterly Report on Form 10-Q of Pentair plc for the quarter ended March 31, 2018 (File No. 001-11625)).*
- [10.19](#) Pentair plc 2020 Share and Incentive Plan, effective as of May 5, 2020 (Incorporated by reference to Appendix B to the Definitive Proxy Statement on Schedule 14A of Pentair plc filed on March 20, 2020 (File No. 001-11625)).*
- [10.20](#) Form of Employee Restricted Stock Unit Award Agreement under the Pentair plc 2020 Share and Incentive Plan (Incorporated by reference to Exhibit 10.21 to the Annual Report on Form 10-K of Pentair plc for the year ended December 31, 2023 (File No. 001-11625)).*
- [10.21](#) Form of Non-Employee Director Restricted Stock Unit Award Agreement under the Pentair plc 2020 Share and Incentive Plan (Incorporated by reference to Exhibit 99.2 to the Registration Statement on Form S-8 of Pentair plc (Reg. No. 333-238544)).*
- [10.22](#) Form of Key Talent Award Agreement under the Pentair plc 2020 Share and Incentive Plan (Incorporated by reference to Exhibit 10.23 to the Annual Report on Form 10-K of Pentair plc for the year ended December 31, 2023 (File No. 001-11625)).*
- [10.23](#) Form of Stock Option Award Agreement under the Pentair plc 2020 Share and Incentive Plan (Incorporated by reference to Exhibit 10.24 to the Annual Report on Form 10-K of Pentair plc for the year ended December 31, 2023 (File No. 001-11625)).*
- [10.24](#) Form of Performance Share Unit Award Agreement under the Pentair plc 2020 Share and Incentive Plan (Incorporated by reference to Exhibit 10.25 to the Annual Report on Form 10-K of Pentair plc for the year ended December 31, 2023 (File No. 001-11625)).*
- [10.25](#) Pentair plc Executive Officer Severance Plan (Incorporated by reference to Exhibit 10.30 to the Annual Report on Form 10-K of Pentair plc for the year ended December 31, 2020 (File No. 001-11625)).*
- [10.26](#) Amendment No. 1 to the Pentair plc 2020 Share and Incentive Plan (Incorporated by reference to Exhibit 10.31 to the Annual Report on Form 10-K of Pentair plc for the year ended December 31, 2020 (File No. 001-11625)).*
- [19](#) Insider Trading Policy.
- [21](#) List of Pentair plc subsidiaries.
- [22](#) List of Guarantors and Subsidiary Issuers of Guaranteed Securities. (Incorporated by reference to Exhibit 22 to the Quarterly Report on Form 10-Q of Pentair plc for the quarter ended September 30, 2022 (File No. 001-11625)).
- [23](#) Consent of Independent Registered Public Accounting Firm — Deloitte & Touche LLP.
- [24](#) Power of attorney.
- [31.1](#) Certification of Chief Executive Officer.
- [31.2](#) Certification of Chief Financial Officer.
- [32.1](#) Certification of Chief Executive Officer, Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
- [32.2](#) Certification of Chief Financial Officer, Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.

- [97](#) Compensation Recovery Policy (Incorporated by reference to Exhibit 97 to the Annual Report on Form 10-K of Pentair plc for the year ended December 31, 2023 (File No. 001-11625)).
- 101** The following materials from Pentair plc's Annual Report on Form 10-K for the year ended December 31, 2024 are filed herewith, formatted in iXBRL (Inline Extensible Business Reporting Language): (i) the Consolidated Statements of Operations and Comprehensive Income for the years ended December 31, 2024, 2023 and 2022, (ii) the Consolidated Balance Sheets as of December 31, 2024 and 2023, (iii) the Consolidated Statements of Cash Flows for the years ended December 31, 2024, 2023 and 2022, (iv) the Consolidated Statements of Changes in Equity for the years ended December 31, 2024, 2023 and 2022, (v) the Notes to the Consolidated Financial Statements, and (vi) the information included in Part I, Item 1C, Part II, Item 9B(b) and Part III, Item 10. The instance document does not appear in the interactive data file because its XBRL tags are embedded within the Inline XBRL document.
- 104** Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101).
-

* Denotes a management contract or compensatory plan or arrangement.

ITEM 16. FORM 10-K SUMMARY

None.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized, on February 25, 2025.

PENTAIR PLC

By /s/ Robert P. Fishman

Robert P. Fishman
Executive Vice President, Chief Financial Officer and
Chief Accounting Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the Registrant and in the capacities indicated, on February 25, 2025.

Signature	Title
<u>/s/ John L. Stauch</u> John L. Stauch	President and Chief Executive Officer, Director
<u>/s/ Robert P. Fishman</u> Robert P. Fishman	Executive Vice President, Chief Financial Officer and Chief Accounting Officer
<u>*</u>	Director
<u>Mona Abutaleb Stephenson</u> *	Director
<u>Melissa Barra</u> *	Director
<u>Tracey Doi</u> *	Director
<u>T. Michael Glenn</u> *	Director
<u>Theodore L. Harris</u> *	Director
<u>David A. Jones</u> *	Director
<u>Gregory E. Knight</u> *	Director
<u>Michael T. Speetzen</u> *	Director
<u>Billie I. Williamson</u>	

*By /s/ Karla C. Robertson
Karla C. Robertson
Attorney-in-fact

DESCRIPTION OF ORDINARY SHARES

The following description of the material terms of ordinary shares of Pentair plc (“Pentair”) is based on the provisions of the Pentair articles of association (the “Pentair Articles”). This description is not complete and is subject to the applicable provisions of Irish law and the Pentair Articles, which are filed as an exhibit to this Annual Report on Form 10-K.

Capital Structure

The current authorized share capital of Pentair is €40,000 and \$4,260,000 divided into 40,000 ordinary shares with a nominal value of €1.00 per share and 426,000,000 ordinary shares with a nominal value of \$0.01 per share. The authorized share capital includes 40,000 shares with a nominal value of €1 per share, which was required on incorporation in order to satisfy statutory requirements for all Irish public limited companies commencing operations.

Pentair may issue shares subject to the maximum authorized share capital contained in the Pentair Articles. The authorized share capital may be increased by a resolution approved by a two-thirds majority of the votes of Pentair’s shareholders cast at a general meeting (referred to as a “variation resolution”) or reduced by a resolution approved by a simple majority of the votes of Pentair’s shareholders cast at a general meeting (referred to under Irish law as an “ordinary resolution”). The shares comprising the authorized share capital of Pentair may be divided into shares of such nominal value as the resolution shall prescribe. As a matter of Irish company law, the directors of a company may issue new ordinary shares without shareholder approval once authorized to do so by the articles of association or by an ordinary resolution adopted by the shareholders at a general meeting. In accordance with current customary practice in Ireland, Pentair sought, and received, shareholder approval at Pentair’s 2024 annual general meeting of shareholders to authorize the board of directors to issue up to a maximum of 20% of Pentair’s issued ordinary share capital as of March 8, 2024 (an aggregate nominal amount of \$332,032 or 33,203,219 shares), for a period to expire 18 months from the approval, or November 7, 2025.

The rights and restrictions to which the ordinary shares are subject are prescribed in the Pentair Articles.

Preemption Rights

Under Irish law certain statutory preemption rights apply automatically in favor of shareholders where shares are to be issued for cash. However, Pentair initially opted out of these preemption rights in the Pentair Articles as permitted under Irish company law. Because Irish law requires this opt-out to be renewed at least every five years by a resolution approved by not less than 75% of the votes of the shareholders of Pentair cast at a general meeting (referred to under Irish law as a “special resolution”), the Pentair Articles provide that this opt-out must be so renewed. If the opt-out is not renewed, shares issued for cash must be offered to existing shareholders of Pentair on a pro rata basis to their existing shareholding before the shares can be issued to any new shareholders. The statutory preemption rights do not apply where shares are issued for non-cash consideration (such as in a stock-for-stock acquisition) and do not apply to the issue of non-equity shares (that is, shares that have the right to participate only up to a specified amount in any income or capital distribution) or where shares are issued pursuant to an employee option or similar equity plan. In accordance with current customary practice in Ireland, Pentair sought, and received, shareholder approval at Pentair’s 2024 annual general meeting of shareholders to authorize Pentair to opt out of preemption rights with respect to the allotment of equity securities up to a maximum of 20% of Pentair’s issued ordinary share capital as of March 8, 2024 (an aggregate nominal amount of \$332,032 or 33,203,219 shares). This approval will expire 18 months from the date of the approval, or November 7, 2025.

Dividends

Under Irish law, dividends and distributions may only be made from distributable reserves. Distributable reserves generally means accumulated realized profits less accumulated realized losses and includes reserves created by way of capital reduction. In addition, no distribution or dividend may be made unless the net assets of Pentair are equal to, or in excess of, the aggregate of Pentair’s called up share capital plus undistributable reserves and the distribution does not reduce Pentair’s net assets below such aggregate. Undistributable reserves include undenominated capital and the amount by which Pentair’s accumulated unrealized profits, so far as not previously utilized by any capitalization, exceed Pentair’s accumulated unrealized losses, so far as not previously written off in a reduction or reorganization of capital.

The determination as to whether or not Pentair has sufficient distributable reserves to fund a dividend must be made by reference to “relevant financial statements” of Pentair. The “relevant financial statements” will be either the last set of unconsolidated annual audited financial statements or other financial statements properly prepared in accordance with the Companies Act, which give a “true and fair view” of Pentair’s unconsolidated financial position and accord with accepted accounting practice. The relevant financial statements must be filed in the Companies Registration Office (the official public registry for companies in Ireland).

The Pentair Articles authorize the directors to declare dividends to the extent they appear justified by profits without shareholder approval. The Pentair board of directors may also recommend a dividend to be approved and declared by the Pentair shareholders at a general meeting. The Pentair board of directors may direct that the payment be made by distribution of assets, shares or cash and no dividend issued may exceed the amount recommended by the directors. Dividends may be declared and paid in the form of cash or non-cash assets and may be paid in U.S. dollars or any other currency. All holders of ordinary shares of Pentair will participate pro rata in respect of any dividend which may be declared in respect of ordinary shares by Pentair.

The directors of Pentair may deduct from any dividend payable to any shareholder any amounts payable by such shareholder to Pentair in relation to the ordinary shares of Pentair.

Bonus Shares

The Pentair Articles authorize the Pentair board of directors to capitalize any amount credited to any reserve, including undenominated capital, or credited to the profit and loss account, and use such amount for the issuance to shareholders of shares as fully paid bonus shares on the same basis of entitlement as would apply in respect of a dividend distribution.

Share Repurchases, Redemptions and Conversions

Overview

The Pentair Articles provide that unless the Board specifically elects to treat such acquisition as a purchase for the purposes of the Irish Companies Act 2014 (as amended) (the “Companies Act”), any ordinary shares which Pentair has agreed to acquire shall be deemed to be a redeemable share on, and from the time of, existence or creation of an agreement, transaction, or trade between Pentair and any third party pursuant to which Pentair acquires, or will acquire, ordinary shares, or an interest in ordinary shares, from such third party. Accordingly, for Irish company law purposes, the repurchase of ordinary shares by Pentair will technically be effected as a redemption of those shares as described below under “Repurchases and Redemptions by Pentair”. If the Pentair Articles did not contain such provision, all repurchases by Pentair would be subject to many of the same rules that apply to purchases of Pentair ordinary shares by subsidiaries described below under “Purchases by Subsidiaries of Pentair” including the shareholder approval requirements described below and the requirement that any on-market purchases be effected on a “recognized stock exchange”. Neither Irish law nor any constituent document of Pentair places limitations on the right of nonresident or foreign owners to vote or hold Pentair ordinary shares. Except where otherwise noted, references elsewhere in this document to repurchasing or buying back ordinary shares of Pentair refer to the redemption of ordinary shares by Pentair or the purchase of ordinary shares of Pentair by a subsidiary of Pentair, in each case in accordance with the Pentair Articles and Irish company law as described below.

Repurchases and Redemptions by Pentair

Under Irish law, a company may issue redeemable shares and redeem them out of distributable reserves or the proceeds of a new issue of shares for that purpose. Pentair may only issue redeemable shares if the nominal value of the issued share capital that is not redeemable is not less than 10% of the nominal value of the total issued share capital of Pentair. All redeemable shares must also be fully-paid and the terms of redemption of the shares must provide for payment on redemption. Redeemable shares may, upon redemption, be canceled or held in treasury. Based on the provision of the Pentair Articles described above, shareholder approval will not be required to redeem Pentair ordinary shares.

Pentair may also be given an additional general authority by its shareholders to purchase its own shares on-market which would take effect on the same terms and be subject to the same conditions as applicable to purchases by Pentair’s subsidiaries as described below.

Repurchased and redeemed shares may be canceled or held as treasury shares. The nominal value of treasury shares held by Pentair at any time must not exceed 10% of the nominal value of the issued share capital of Pentair. Pentair may not exercise any voting rights in respect of any shares held as treasury shares. Treasury shares may be canceled by Pentair or re-issued subject to certain conditions.

Purchases by Subsidiaries of Pentair

Under Irish law, an Irish or non-Irish subsidiary may purchase Pentair ordinary shares either as overseas market purchases or off-market purchases. For a subsidiary of Pentair to make overseas market purchases of Pentair ordinary shares, the shareholders of Pentair must provide general authorization for such purchase by way of ordinary resolution. However, as long as this general authority has been granted, no specific shareholder authority for a particular overseas market purchase by a subsidiary of Pentair ordinary shares is required. For an off-market purchase by a subsidiary of Pentair, the proposed purchase contract must be authorized by special

resolution of the shareholders before the contract is entered into. The person whose Pentair ordinary shares are to be bought back cannot vote in favor of the special resolution and, for at least 21 days prior to the special resolution being passed, the purchase contract must be on display or must be available for inspection by shareholders at the registered office of Pentair.

In order for a subsidiary of Pentair to make an overseas market purchase of Pentair ordinary shares, such shares must be purchased on a “recognized stock exchange”. The New York Stock Exchange, on which the shares of Pentair are listed, is specified as a recognized stock exchange for this purpose by Irish company law.

The number of Pentair ordinary shares acquired and held by the subsidiaries of Pentair at any time will count as treasury shares and will be included in any calculation of the permitted treasury share threshold of 10% of the nominal value of the issued share capital of Pentair. While a subsidiary holds Pentair ordinary shares, it cannot exercise any voting rights in respect of those shares. The acquisition of Pentair ordinary shares by a subsidiary must be funded out of distributable reserves of the subsidiary.

Lien on Shares, Calls on Shares and Forfeiture of Shares

The Pentair Articles provide that Pentair will have a first and paramount lien on every share that is not a fully paid up share for all moneys payable at a fixed time or called in respect of that share, whether presently due or not in respect of such Pentair ordinary shares. Subject to the terms of their allotment, directors may call for any unpaid amounts in respect of any Pentair ordinary shares to be paid, and if payment is not made, the shares may be forfeited. These provisions are standard inclusions in the articles of association of an Irish public company limited by shares such as Pentair and will only be applicable to Pentair ordinary shares that have not been fully paid up.

Consolidation and Division; Subdivision

Under the Pentair Articles, Pentair may, by ordinary resolution, consolidate and divide all or any of its share capital into shares of larger nominal value than its existing shares or subdivide its shares into smaller amounts than is fixed by the Pentair Articles.

Reduction of Share Capital

Pentair may, by special resolution, reduce its authorized share capital in any way. Pentair also may, by special resolution and subject to confirmation by the Irish High Court, reduce or cancel its issued share capital in any manner permitted by the Companies Act.

Extraordinary General Meetings of Shareholders

Extraordinary general meetings of Pentair may be convened (i) by the Pentair board of directors, (ii) on requisition of the shareholders holding not less than 10% of the paid up share capital of Pentair carrying voting rights, or (iii) on requisition of Pentair’s auditors. Extraordinary general meetings are generally held for the purposes of approving shareholder resolutions as may be required from time to time. At any extraordinary general meeting only such business shall be conducted as is set forth in the notice thereof.

Voting

Each ordinary share is entitled to one vote on each matter properly brought before the shareholders. At any meeting of Pentair, all resolutions will be decided on a poll.

Treasury shares or Pentair ordinary shares that are held by subsidiaries of Pentair are not entitled to be voted at general meetings of shareholders.

Irish company law requires special resolutions of the shareholders at a general meeting to approve certain matters. Examples of matters requiring special resolutions include:

- amending the Pentair Articles;
- approving a change of name of Pentair;
- authorizing the entering into of a guarantee or provision of security in connection with a loan, quasi-loan or credit transaction to a director or connected person;
- opting out of preemption rights on the issuance of new shares;
- re-registration of Pentair from a public limited company to a private company;

- variation of class rights attaching to classes of shares (where the Pentair Articles do not provide otherwise);
- purchase of Pentair shares off-market;
- reduction of issued share capital;
- sanctioning a compromise/scheme of arrangement;
- resolving that Pentair be wound up by the Irish courts;
- resolving in favor of a shareholders' voluntary winding-up;
- re-designation of shares into different share classes;
- setting the re-issue price of treasury shares; and
- a cross-border merger pursuant to Directive (EU) 2017/1132 of 14 June 2017 relating to certain aspects of company law.

Variation of Rights Attaching to a Class or Series of Shares

Under the Pentair Articles and the Companies Act, any variation of class rights attaching to the issued shares of Pentair must be approved in writing by holders of three-quarters of the issued shares in that class or with the sanction of a special resolution passed at a separate general meeting of the holders of the shares of that class, provided that, if the relevant class of holders has only one holder, that person present in person or by proxy shall constitute the necessary quorum.

Acquisitions

An Irish public limited company may be acquired in a number of ways, including:

- a court-approved scheme of arrangement under the Companies Act. A scheme of arrangement with shareholders requires a court order from the Irish High Court and the approval of a majority in number representing 75% in value of the shareholders present and voting in person or by proxy at a meeting called to approve the scheme;
- through a tender or takeover offer by a third party for all of the shares of Pentair. Where the holders of 80% or more of Pentair's ordinary shares have accepted an offer for their shares in Pentair, the remaining shareholders may also be statutorily required to transfer their shares. If the bidder does not exercise its "squeeze out" right, then the non-accepting shareholders also have a statutory right to require the bidder to acquire their shares on the same terms. If shares of Pentair were to be listed on the Irish Stock Exchange or another regulated stock exchange in the European Union, this threshold would be increased to 90%; and
- it is also possible for Pentair to be acquired by way of a transaction with an EU-incorporated company under Directive (EU) 2017/1132 of 14 June 2017 relating to certain aspects of company law. Such a transaction must be approved by a special resolution. If Pentair is being merged with another EU company under Directive (EU) 2017/1132 and the consideration payable to Pentair shareholders is not all in the form of cash, Pentair shareholders may be entitled to require their shares to be acquired at fair value.

Disclosure of Interests in Shares

Under the Companies Act, Pentair shareholders must notify Pentair if, as a result of a transaction, the shareholder will become interested in 3% or more of the shares of Pentair; or if as a result of a transaction a shareholder who was interested in more than 3% of the shares of Pentair ceases to be so interested. Where a shareholder is interested in more than 3% of the shares of Pentair, the shareholder must notify Pentair of any alteration of his or her interest that brings his or her total holding through the nearest whole percentage number, whether an increase or a reduction. The relevant percentage figure is calculated by reference to the aggregate nominal value of the shares in which the shareholder is interested as a proportion of the entire nominal value of the issued share capital of Pentair (or any such class of share capital in issue). Where the percentage level of the shareholder's interest does not amount to a whole percentage this figure may be rounded down to the next whole number. Pentair must be notified within five business days of the transaction or alteration of the shareholder's interests that gave rise to the notification requirement. If a shareholder fails to comply with these notification requirements, the shareholder's rights in respect of any Pentair ordinary shares it holds will not be enforceable, either directly or indirectly. However, such person may apply to the court to have the rights attaching to such shares reinstated.

In addition to these disclosure requirements, Pentair, under the Companies Act, may, by notice in writing, require a person whom Pentair knows or has reasonable cause to believe to be, or at any time during the three years immediately preceding the date on which such notice is issued to have been, interested in shares comprised in Pentair's relevant share capital to: (i) indicate whether or

not it is the case and (ii) where such person holds or has during that time held an interest in the shares of Pentair, to provide additional information, including the person's own past or present interests in shares of Pentair. If the recipient of the notice fails to respond within the reasonable time period specified in the notice, Pentair may apply to court for an order directing that the affected shares be subject to certain restrictions, as prescribed by the Companies Act, as follows:

- any transfer of those shares, or in the case of unissued shares any transfer of the right to be issued with shares and any issue of shares, shall be void;
- no voting rights shall be exercisable in respect of those shares;
- no further shares shall be issued in right of those shares or in pursuance of any offer made to the holder of those shares; and
- no payment shall be made of any sums due from Pentair on those shares, whether in respect of capital or otherwise.

The court may also order that shares subject to any of these restrictions be sold with the restrictions terminating upon the completion of the sale.

In the event Pentair is in an offer period pursuant to the Irish Takeover Rules (as defined below), accelerated disclosure provisions apply for persons holding an interest in Pentair securities of 1% or more.

Anti-Takeover Provisions

Irish Takeover Rules and Substantial Acquisition Rules

A transaction in which a third party seeks to acquire 30% or more of the voting rights of Pentair will be governed by the Irish Takeover Panel Act 1997 and the Irish Takeover Rules 2007 (as amended) (the "Irish Takeover Rules") made thereunder and will be regulated by the Irish Takeover Panel (the "Panel"). The "General Principles" of the Irish Takeover Rules and certain important aspects of the Irish Takeover Rules are described below.

General Principles

The Irish Takeover Rules are built on the following General Principles which will apply to any transaction regulated by the Panel:

- in the event of an offer, all holders of security of the target company should be afforded equivalent treatment and, if a person acquires control of a company, the other holders of securities must be protected;
- the holders of the securities in the target company must have sufficient time and information to enable them to reach a properly informed decision on the offer; where it advises the holders of securities, the board of the target company must give its views on the effects of implementation of the offer on employment, conditions of employment and the locations of the target company's places of business;
- the board of the target company must act in the interests of the company as a whole and must not deny the holders of securities the opportunity to decide on the merits of the offer;
- false markets must not be created in the securities of the target company, the bidder or of any other company concerned by the offer in such a way that the rise or fall of the prices of the securities becomes artificial and the normal functioning of the markets is distorted;
- a bidder must announce an offer only after ensuring that he or she can fulfill in full, any cash consideration, if such is offered, and after taking all reasonable measures to secure the implementation of any other type of consideration;
- a target company must not be hindered in the conduct of its affairs for longer than is reasonable by an offer for its securities; and
- a "substantial acquisition" of securities (whether such acquisition is to be effected by one transaction or a series of transactions) shall take place only at an acceptable speed and shall be subject to adequate and timely disclosure.

Mandatory Bid

Under certain circumstances, a person who acquires shares or other voting rights in Pentair may be required under the Takeover Rules to make a mandatory cash offer for the remaining outstanding shares in Pentair at a price not less than the highest price paid for the shares by the acquirer (or any parties acting in concert with the acquirer) during the previous 12 months. This

mandatory bid requirement is triggered if an acquisition of shares would increase the aggregate holding of an acquirer (including the holdings of any parties acting in concert with the acquirer) to shares representing 30% or more of the voting rights in Pentair, unless the Panel otherwise consents. An acquisition of shares by a person holding (together with its concert parties) shares representing between 30% and 50% of the voting rights in Pentair would also trigger the mandatory bid requirement if, after giving effect to the acquisition, the percentage of the voting rights held by that person (together with its concert parties) would increase by 0.05% within a 12-month period. Any person (excluding any parties acting in concert with the holder) holding shares representing more than 50% of the voting rights of a company is not subject to these mandatory offer requirements in purchasing additional securities.

Voluntary Bid; Requirements to Make a Cash Offer and Minimum Price Requirements

If a person makes a voluntary offer to acquire outstanding Pentair ordinary shares, the offer price must be no less than the highest price paid for Pentair ordinary shares by the bidder or its concert parties during the three-month period prior to the commencement of the offer period. The Panel has the power to extend the “look back” period to 12 months if the Panel, taking into account the General Principles, believes it is appropriate to do so.

If the bidder or any of its concert parties has acquired Pentair ordinary shares (i) during the period of 12 months prior to the commencement of the offer period which represent more than 10% of the total Pentair ordinary shares or (ii) at any time after the commencement of the offer period, the offer must be in cash (or accompanied by a full cash alternative) and the price per Pentair ordinary shares must not be less than the highest price paid by the bidder or its concert parties during, in the case of (i), the 12-month period prior to the commencement of the offer period and, in the case of (ii), the offer period. The Panel may apply this rule to a bidder who, together with its concert parties, has acquired less than 10% of the total Pentair ordinary shares in the 12-month period prior to the commencement of the offer period if the Panel, taking into account the General Principles, considers it just and proper to do so.

An offer period will generally commence from the date of the first announcement of the offer or proposed offer.

Substantial Acquisition Rules

The Irish Takeover Rules also contain rules governing substantial acquisitions of shares which restrict the speed at which a person may increase his or her holding of shares and rights over shares to an aggregate of between 15% and 30% of the voting rights of Pentair. Except in certain circumstances, an acquisition or series of acquisitions of shares or rights over shares representing 10% or more of the voting rights of Pentair is prohibited, if such acquisition(s), when aggregated with shares or rights already held, would result in the acquirer holding 15% or more but less than 30% of the voting rights of Pentair and such acquisitions are made within a period of seven days. These rules also require accelerated disclosure of acquisitions of shares or rights over shares relating to such holdings.

Frustrating Action

Under the Irish Takeover Rules, the Pentair board of directors is not permitted to take any action which might frustrate an offer for the shares of Pentair once the Pentair board of directors has received an approach which may lead to an offer or has reason to believe an offer is imminent, subject to certain exceptions. Potentially frustrating actions such as (i) the issue of shares, options or convertible securities, (ii) material acquisitions or disposals, (iii) entering into contracts other than in the ordinary course of business or (iv) any action, other than seeking alternative offers, which may result in frustration of an offer, are prohibited during the course of an offer or at any time during which the Pentair board of directors has reason to believe an offer is imminent. Exceptions to this prohibition are available where:

- the action is approved by Pentair’s shareholders at a general meeting; or
- the Panel has given its consent, where:
- it is satisfied the action would not constitute frustrating action;
- Pentair shareholders that hold 50% of the voting rights state in writing that they approve the proposed action and would vote in favor of it at a general meeting;
- the action is taken in accordance with a contract entered into prior to the announcement of the offer; or
- the decision to take such action was made before the announcement of the offer and either has been at least partially implemented or is in the ordinary course of business.

Certain other provisions of Irish law or the Pentair Articles may be considered to have anti-takeover effects, including those described under the following captions in this “Description of Ordinary Shares”: “Capital Structure”, “Preemption Rights”, and “Disclosure of Interests in Shares”.

Duration; Dissolution; Rights Upon Liquidation

Pentair’s duration will be unlimited. Pentair may be dissolved and wound up at any time by way of a shareholders’ voluntary winding up or a creditors’ winding up. In the case of a shareholders’ voluntary winding-up, a special resolution of shareholders is required. Pentair may also be dissolved by way of court order on the application of a creditor, or by the Companies Registration Office as an enforcement measure where Pentair has failed to file certain returns.

The rights of the shareholders to a return of Pentair’s assets on dissolution or winding up, following the settlement of all claims of creditors, may be prescribed in the Pentair Articles. If the Pentair Articles contain no specific provisions in respect of dissolution or winding up then, subject to the priorities of any creditors, the assets will be distributed to shareholders in proportion to the paid-up nominal value of the shares held. The Pentair Articles provide that the ordinary shareholders of Pentair are entitled to participate pro rata in a winding up.

No Sinking Fund

The Pentair ordinary shares have no sinking fund provisions.

No Liability for Further Calls or Assessments

When the ordinary shares offered hereby are issued, they will be duly and validly issued, fully paid and nonassessable.

Transfer and Registration of Shares

The transfer agent for Pentair maintains the share register, registration in which is determinative of membership in Pentair. A shareholder of Pentair who holds shares beneficially is not the holder of record of such shares. Instead, the depository or other nominee is the holder of record of those shares. Accordingly, a transfer of shares from a person who holds such shares beneficially to a person who also holds such shares beneficially through a depository or other nominee is not registered in Pentair’s official share register, as the depository or other nominee remains the record holder of any such shares.

A written instrument of transfer is required under Irish law to register on Pentair’s official share register any transfer of shares (i) from a person who holds such shares directly to any other person, (ii) from a person who holds such shares beneficially to a person who holds such shares directly or (iii) from a person who holds such shares beneficially to another person who holds such shares beneficially where the transfer involves a change in the depository or other nominee that is the record owner of the transferred shares. An instrument of transfer is also required for a shareholder who directly holds shares to transfer those shares into his or her own broker account (or vice versa). Such instruments of transfer may give rise to Irish stamp duty, which must be paid prior to registration of the transfer on Pentair’s official Irish share register. However, a shareholder who directly holds shares may transfer those shares into his or her own broker account (or vice versa) without giving rise to Irish stamp duty, provided that the shareholder has confirmed to Pentair’s transfer agent that there is no change in the ultimate beneficial ownership of the shares as a result of the transfer and the transfer is not made in contemplation of a sale of the shares.

Any transfer of Pentair ordinary shares that is subject to Irish stamp duty is not registered in the name of the buyer unless an instrument of transfer was duly stamped and provided to the transfer agent. The Pentair Articles allow Pentair, in its absolute discretion, to create an instrument of transfer and pay (or procure the payment of) any stamp duty, which is the legal obligation of a buyer. In the event of any such payment, Pentair is (on behalf of itself or its affiliates) entitled to (i) seek reimbursement from the buyer or seller (at its discretion), (ii) set-off the amount of the stamp duty against future dividends payable to the buyer or seller (at its discretion) and (iii) claim a lien against the Pentair ordinary shares on which it has paid stamp duty. Parties to a share transfer may assume that any stamp duty arising in respect of a transaction in Pentair ordinary shares has been paid unless one or both of such parties is otherwise notified by Pentair.

The Pentair Articles delegate to Pentair’s secretary or assistant secretary (or their nominees) the authority to execute an instrument of transfer on behalf of a transferring party.

In order to help ensure that the official share register is regularly updated to reflect trading of Pentair ordinary shares occurring through normal electronic systems, Pentair intends to regularly produce any required instruments of transfer in connection with any transactions for which it pays stamp duty (subject to the reimbursement and set-off rights described above). In the event that

Pentair notifies one or both of the parties to a share transfer that it believes stamp duty is required to be paid in connection with the transfer and that it will not pay the stamp duty, the parties may either themselves arrange for the execution of the required instrument of transfer (and may request a form of instrument of transfer from Pentair for this purpose) or request that Pentair execute an instrument of transfer on behalf of the transferring party in a form determined by Pentair. In either event, if the parties to the share transfer have the instrument of transfer duly stamped (to the extent required) and then provide it to Pentair's transfer agent, the buyer will be registered as the legal owner of the relevant shares on Pentair's official Irish share register (subject to the matters described below).

The directors may suspend registration of transfers from time to time, not exceeding 30 days in aggregate each year.

INSIDER TRADING POLICY

PURPOSE

This Policy is intended to ensure that all directors, officers, and employees of Pentair plc worldwide (collectively, “Company Personnel”) comply with all applicable laws and regulations that prohibit persons who are aware of material nonpublic information about a company from (i) trading in securities of that company, commonly known as “insider trading,” or (ii) providing material nonpublic information to other persons who may trade on the basis of that information, commonly known as “tipping.” Insider trading and stock tipping, as discussed below, are criminal offenses subject to severe criminal and civil consequences as well as possible discipline or dismissal under this Policy.

SCOPE

This Policy applies to all directors, officers and employees of Pentair plc and its subsidiaries, affiliates and related companies, partnerships and joint ventures in which Pentair plc has a controlling interest (collectively, the “Company”) and to the Company itself. The Company may also determine that other persons should be subject to this Policy, such as contractors or consultants who have access to material nonpublic information.

This Policy applies to family members who reside with Company Personnel (including children away at college), anyone else with whom Company Personnel share a household, and any family members with whom Company Personnel do not share a household but whose transactions in Company Securities are directed by Company Personnel or are subject to Company Personnel influence or control, such as parents or children who consult with Company Personnel before they trade in Company Securities (collectively, “Family Members”).

This Policy applies to any entities that Company Personnel influence or control, including any corporations, partnerships, limited liability companies or trusts (collectively, “Controlled Entities”).

Company Personnel are responsible for the transactions of their Family Members and Controlled Entities, and all such transactions will be treated for the purposes of this Policy and applicable securities laws as if the transactions were for the Company Personnel’s own account.

If a person ceases to be Company Personnel at time when the person is aware of material nonpublic information, the applicable provisions of this Policy will continue to apply to such person until that information has become public or is no longer material. Accordingly, certain

ISSUED BY	EFFECTIVE DATE	SUPERSEDES	PAGE
Legal Department	December 16, 2024	February 23, 2023	Page 1 of 10

provisions of this Policy may continue to apply to a person after they cease to be Company Personnel, based on the circumstances in effect at the time of separation from the Company.

DEFINITIONS

Company Securities means and includes, without limitation, the Company's ordinary shares, options to purchase the Company's shares, or any other type of securities that the Company may issue, including, but not limited to, debt securities, preferred shares, restricted shares, restricted stock units, performance share units, convertible debentures and warrants, as well as derivative securities that are not issued by the Company, such as exchange-traded put or call options or swaps relating to the Company's Securities.

Nonpublic information is sometimes referred to as confidential information and means information about the Company that is not known to the public-at-large. All information is considered nonpublic until the business day that is two full trading days after it has been widely released through a press release, news wire, television or radio broadcast, newspaper, magazine or website publication, or public disclosure documents filed with the U.S. Securities and Exchange Commission. By contrast, information would likely not be considered widely disseminated if it is available only to the Company's employees. If, for example, you were aware of Company material nonpublic information and the Company were to disseminate that information during the trading day before market close on a Monday, you should not trade in Company Securities until Thursday. Depending on the particular circumstances, the Company may determine that a longer or shorter period should apply to the dissemination of specific material nonpublic information.

Information is considered *material* if a reasonable investor would consider it important in deciding whether to buy, hold or sell securities. It is not possible to define all categories of material information; however, information about the following subjects are examples of the type of information that would often be regarded as material, depending on the circumstances, and should be analyzed carefully:

- expected earnings or revenues, as well as Company projections as to future earnings or revenues;
- changes to previously announced earnings guidance, or a decision to suspend earnings guidance;
- significant related party transactions;
- a proposed significant acquisition, disposition or joint venture;
- significant purchases, sales or write-offs of assets;
- a planned offering of securities, change in dividend policy or declaration of a stock split;
- the establishment of a repurchase program for Company Securities or changes thereto;
- a major change in the Company's pricing or cost structure;
- major marketing changes;

ISSUED BY	EFFECTIVE DATE	SUPERSEDES	PAGE
Legal Department	December 16, 2024	February 23, 2023	Page 2 of 10

- a significant product development, gain or loss of a major customer or substantial contract award or termination;
- a significant Company restructuring;
- bank borrowings or other financing transactions out of the ordinary course;
- a change in senior management;
- a change in auditors or notification that the auditor’s reports may no longer be relied upon;
- an imposition of a ban on trading in Company Securities or the securities of another company;
- an impending bankruptcy or the existence of severe liquidity problems;
- pending or threatened significant litigation or resolution of such litigation; and
- a significant cybersecurity incident, such as a data breach.

POLICY

All Company Personnel must comply with applicable securities laws with respect to transactions in Company Securities.

General Prohibitions

Company Personnel, their Family Members and Controlled Entities and the Company must never:

1. Buy, sell or engage in other transactions in Company Securities while aware of Company material nonpublic information, except as otherwise specified in this Policy.
2. Disclose or “tip” material nonpublic information to any unauthorized persons or or recommend the purchase or sale of any Company Securities to others or otherwise making unauthorized disclosure or use of such information, regardless of whether the persons profit or intend to profit by such tipping, disclosure or use.

You must take steps to prevent the inadvertent disclosure of material nonpublic information to unauthorized persons outside the Company. If you believe that the disclosure of material nonpublic information is necessary or appropriate for business reasons, you must consult with Company counsel to ensure that they concur that such disclosure is necessary, and to ensure that any such disclosure will comply with all applicable laws and policies.

Application of Policy to Trading in Other Companies’ Securities

This Policy also prohibits Company Personnel, their Family Members and Controlled Entities and the Company from buying, selling or engaging in other transactions in securities of other companies while aware of material nonpublic information about those other companies that Company Personnel became aware of as a result of their service to the Company. Other companies potentially covered by this restriction may include suppliers, customers, business

ISSUED BY	EFFECTIVE DATE	SUPERSEDES	PAGE
Legal Department	December 16, 2024	February 23, 2023	Page 3 of 10

partners, competitors and potential merger and acquisition parties. This restriction also prohibits disclosing or tipping such information, or making trading recommendations regarding such other companies, to any other person.

Specific Prohibition on Special Transactions, Including Hedging and Pledging

Company Personnel, as well as their Family Members and Controlled Entities and anyone designated to engage in securities transactions on behalf of Company Personnel, are prohibited from purchasing financial instruments, including prepaid variable forward contracts, equity swaps, collars and exchange funds, or otherwise engaging in transactions, that hedge or offset, or are designed to hedge or offset, any decrease in the market value of Company Securities. Prohibited transactions include transactions in puts, calls, cashless collars, options (other than options issued by the Company to acquire Company Securities), short sales, and similar rights and obligations. The foregoing restriction applies to all Company Securities owned directly or indirectly by Company Personnel, including Company Securities owned by their Family Members and Controlled Entities, and their respective designees. Nothing in this hedging restriction shall preclude any Company Personnel or their designees from engaging in general portfolio diversification or investing in broad-based index funds.

In addition, Company Personnel and their Family Members and Controlled Entities are prohibited from holding Company Securities in a margin account or otherwise pledging Company Securities as collateral for a loan.

Gifts

Company Personnel may not make a gift of Company Securities while aware of material nonpublic information relating to the Company if the Company Personnel knows or is reckless in not knowing the recipient of the gift would sell the securities prior to the Company’s disclosure of such information. Such a situation can arise with gifts of securities to charities, which are often required by their policies to sell securities soon after a gift.

Event-Specific Trading Windows

From time to time, an event may occur that is material to the Company and is known by only a few directors, officers and/or employees. So long as the event or information related to the event remains material and nonpublic, the persons designated by the General Counsel may not trade Company Securities. In that situation, the General Counsel may notify these persons that they should not trade in Company Securities, without disclosing the reason for the restriction. The existence of an event-specific trading restriction period or shortening of a Trading Window period will not be announced to the Company as a whole, and should not be communicated to any other person.

ISSUED BY	EFFECTIVE DATE	SUPERSEDES	PAGE
Legal Department	December 16, 2024	February 23, 2023	Page 4 of 10

Quarterly Trading Window Procedures for Window Group

The Company imposes certain restrictions on specified directors, executive officers, and other designated personnel in trading Company Securities. These restrictions govern even though the transactions may be permissible under law and apply to the following persons hereafter defined as the “Window Group”:

- All directors of Pentair plc
- All executive officers of Pentair plc
- Segment Presidents and Vice Presidents, Finance (or their equivalents)
- Any other employees designated by the General Counsel
- Family Members and Controlled Entities of any of the foregoing

Except for transactions made subject to a 10b5-1 Plan approved in accordance with this Policy, members of the Window Group may only enter into transactions in Company Securities (including option exercises and gifts, in each case except as described below) during an open trading window that commences on the business day that is two full trading days after the public release of, and investor call regarding, the Company’s quarterly or annual financial results and ends before trading commences on the first day of the last month prior to the close of the next fiscal quarter (“Trading Window”). The Window Group will be informed electronically each quarter of the opening and closing of the Trading Window. The Company may close an open Trading Window early at any time, as deemed appropriate by the General Counsel.

These foregoing restrictions apply to Family Members and Controlled Entities of the Window Group.

The Company will not engage in transactions in Company Securities at any time when there is material nonpublic information about the Company, and will generally be guided by the trading windows set forth in this Policy.

Rule 10b5-1 Plans

Rule 10b5-1 of the Securities Exchange Act of 1934 (the “Exchange Act”) provides a defense from insider trading liability. To be eligible to rely on this defense, a person must enter into a Rule 10b5-1 plan for transactions in Company Securities that meets certain conditions specified in the Rule (a “10b5-1 Plan”). If the plan meets the requirements of Rule 10b5-1, Company Securities may be purchased or sold without regard to certain insider trading restrictions. To comply with this policy, a 10b5-1 Plan must be approved by the General Counsel and meet the requirements of Rule 10b5-1 as outlined on Appendix A.

ISSUED BY	EFFECTIVE DATE	SUPERSEDES	PAGE
Legal Department	December 16, 2024	February 23, 2023	Page 5 of 10

Pre-Clearance Requirement for Section 16 Persons

All members of the Board of Directors and officers subject to Section 16 of the Exchange Act (together, “Section 16 Persons”) must pre-clear all transactions in Company Securities in advance with the General Counsel’s office before effecting the transaction. This pre-clearance is required even if the trading window is open. Any pre-clearance will generally be valid until the end of the second day after receipt of approval, unless the approval specifies a different effective period. To avoid signaling to others that something material and non-public is happening with respect to the Company, Section 16 Person should keep a pre-clearance denial confidential. As a result, Section 16 Persons should seek pre-clearance before talking to others (e.g., brokers) about the proposed transaction. A favorable response from the General Counsel should not be interpreted as approval by the Company of the advisability of the proposed transaction. Section 16 Persons are responsible for determining whether a proposed transaction is permitted under this Policy, and should not effect a proposed transaction if the Section 16 Person is, in fact, aware of material, nonpublic information about the Company.

Section 16 Persons are also subject to the short-swing and reporting obligations of Section 16 of the Exchange Act, Rule 144 of the Securities Act of 1933 applicable to affiliates of the Company, and any stock ownership guidelines adopted by the Company.

EXCEPTIONS

This Policy does not apply in the case of the following transactions, except as specifically noted:

Stock Option Exercises. This Policy does not apply to the vesting or exercise of an employee option to purchase the Company’s shares acquired pursuant to the Company’s plans, to the delivery to the Company of shares to pay the exercise price or satisfy tax withholding requirements for such option, or to the exercise of a right pursuant to which you elect to have the Company net or withhold shares subject to an option to pay the exercise price or satisfy tax withholding requirements. This Policy does apply, however, to any sale of shares as part of a broker-assisted cashless exercise of an option or any other market sale for the purpose of generating the cash needed to pay the exercise price of or tax withholding for an option and to any market sale of the shares received on exercise of options.

Restricted Stock Unit and Performance Share Unit Awards. This Policy does not apply to the vesting of restricted stock units or performance share units, or the exercise of a tax withholding right pursuant to which you elect to have the Company withhold shares to satisfy tax withholding requirements upon the vesting of any restricted stock units or performance share units. The Policy does apply, however, to any market sale of shares received on vesting of restricted stock units or performance share units.

ISSUED BY	EFFECTIVE DATE	SUPERSEDES	PAGE
Legal Department	December 16, 2024	February 23, 2023	Page 6 of 10

401(k) Plan. This Policy does not apply to purchases of Company Securities in the Company’s 401(k) plan resulting from your periodic contribution of money to the plan pursuant to your payroll deduction election (including any contributions out of Company bonuses). This Policy does apply, however, to certain elections you may make under the 401(k) plan, including: (a) an election to increase or decrease the percentage of your periodic contributions that will be allocated to the Company stock fund; (b) an election to make an intra-plan transfer of an existing account balance into or out of the Company stock fund; (c) an election to borrow money against your 401(k) plan account if the loan will result in a liquidation of some or all of your Company stock fund balance; and (d) an election to pre-pay a plan loan if the pre-payment will result in allocation of loan proceeds to the Company stock fund.

Employee Stock Purchase Plan. This Policy does not apply to purchases of Company Securities in the employee stock purchase plan resulting from your periodic contribution of money to the plan pursuant to the election you made at the time of your enrollment in the plan. This Policy also does not apply to purchases of Company Securities resulting from lump sum contributions to the plan, provided that you elected to participate by lump sum payment at the beginning of the applicable enrollment period. This Policy does apply, however, to your election to participate in the plan for any enrollment period, your election to increase or decrease the level of your participation in the plan, and your sales of Company Securities purchased pursuant to the plan.

Dividend Reinvestment Plan. This Policy does not apply to purchases of Company Securities under the Company’s dividend reinvestment plan resulting from your reinvestment of dividends paid on Company Securities. This Policy does apply, however, to voluntary purchases of Company Securities resulting from additional contributions you choose to make to the dividend reinvestment plan, to your election to participate in the plan or increase your level of participation in the plan and to your sale of any Company Securities purchased pursuant to the plan.

Bona Fide Gifts. The trading window restrictions and restrictions on engaging in transactions when aware of material nonpublic information do not apply to a bona fide gift of Company Securities so long as the recipient of the Company Securities is subject to the same provisions of this Policy as the donor. Any gift of Company Securities by a Section 16 Person remains subject to the pre-clearance requirements of this Policy.

IMPLEMENTATION

The current version of this Policy will at all times be accessible through the Company's intranet. The Company will notify the Window Group of the trading window periods for each quarter. The Company provides training and information on this Policy and the insider trading laws to appropriate Company Personnel from time to time, and Company Personnel are required to attend all such trainings assigned to them.

ISSUED BY	EFFECTIVE DATE	SUPERSEDES	PAGE
Legal Department	December 16, 2024	February 23, 2023	Page 7 of 10

COMPLIANCE AND SANCTIONS

Failure to comply with this Policy may be grounds for disciplinary action, in accordance with local law, up to and including termination.

REPORTING AND NON-RETALIATION

Company employees should, in accordance with local law, report any conduct that they believe in good faith to be a violation or apparent violation of this Policy to their manager, Human Resources, the Legal Department, the Office of Business Conduct & Ethics, or the Ethics Helpline at www.PentairEthics.com. Any such reports shall be treated as confidential to the extent allowed by law. The Company prohibits retaliation for good faith reports of suspected misconduct.

CONTACT/QUESTIONS

Any questions concerning this Policy may be addressed to the General Counsel or the Office of Business Conduct & Ethics, or by e-mail at ethics@pentair.com.

ISSUED BY Legal Department	EFFECTIVE DATE December 16, 2024	SUPERSEDES February 23, 2023	PAGE Page 8 of 10
-------------------------------	-------------------------------------	---------------------------------	----------------------

APPENDIX A

Rule 10b5-1 Trading Plan Transactions Policy

Rule 10b5-1 under the Exchange Act provides a defense from insider trading liability under Rule 10b-5. In order to be eligible to rely on this defense, a person subject to this Policy must enter into a 10b5-1 Plan for transactions in Company Securities (as defined in this Policy) that meets certain conditions specified in that rule. Once the plan is adopted, the person must not exercise any influence over the amount of securities to be traded, the price at which they are to be traded or the date of the trade. The plan must either specify the amount, pricing and timing of transactions in advance or delegate discretion on these matters to an independent third party.

The following guidelines apply to all 10b5-1 Plans (unless otherwise approved by the General Counsel):

- For Section 16 Persons, no transaction may take place under a 10b5-1 Plan until expiration of a cooling-off period consisting of the later of (a) 90 days after adoption or modification (as specified in Rule 10b5-1) of the 10b5-1 Plan or (b) two business days following the disclosure of the Company's financial results in a Form 10-Q or Form 10-K for the fiscal quarter (the Company's fourth fiscal quarter in the case of a Form 10-K) in which the 10b5-1 Plan was adopted or modified (as specified in Rule 10b5-1), but in any event, this required cooling-off period is subject to a maximum of 120 days after adoption of the plan.
- For persons other than Section 16 Persons, no transaction may take place under a 10b5-1 Plan until the expiration of a cooling-off period that is 30 days following the adoption or modification (as specified in Rule 10b5-1) of a 10b5-1 Plan.
- Subject to certain limited exceptions specified in 10b5-1, you may not have more than one 10b5-1 Plan in effect at any same time.
- Subject to certain limited exceptions specified in Rule 10b5-1, you may only enter into a 10b5-1 Plan that is designed to effect an open market purchase or sale of the total amount of securities subject to the 10b5-1 Plan as a single transaction (a "single-transaction plan") if you have not entered into a "single-transaction plan" in the prior 12 months.
- You must act in good faith with respect to a 10b5-1 Plan. A 10b5-1 Plan cannot be entered into as part of a plan or scheme to evade the prohibition of Rule 10b-5. Therefore, although modifications to an existing 10b5-1 Plan are not prohibited, a 10b5-1 Plan should be adopted with the intention that it will not be amended or terminated prior to its expiration.
- Section 16 Persons must include a representation in the 10b5-1 Plan that (i) the person is not aware of material, nonpublic information about the Company or Company

ISSUED BY	EFFECTIVE DATE	SUPERSEDES	PAGE
Legal Department	December 16, 2024	February 23, 2023	Page 9 of 10

Securities and (ii) the person is adopting the plan in good faith and not as part of plan or scheme to evade the prohibitions of Rule 10b-5.

For purposes of the above, a modification as specified in Rule 10b5-1 includes any modification of a 10b5-1 Plan that changes the amount, price or timing of the purchase or sale of securities underlying the 10b5-1 Plan.

ISSUED BY	EFFECTIVE DATE	SUPERSEDES	PAGE
Legal Department	December 16, 2024	February 23, 2023	Page 10 of 10

Pentair plc and subsidiaries as of December 31, 2024

Name of Company	Jurisdiction of Incorporation
APEL International, LLC	United States
Aplex Industries, Inc.	United States
Aqua Membranes, Inc. ⁽¹⁾	United States
Aquion (Xi'an) Water Treatment Equipment Co., Ltd.	China
Aquion Hong Kong Limited	Hong Kong
Aquion, Inc.	United States
ClearWater Tech, L.L.C.	United States
ETE Coliban Pty Limited	Australia
Everpure Japan Kabushiki Kaisha	Japan
FARADYNE Motors (Suzhou) Co., Ltd ⁽²⁾	China
Faradyne Motors LLC ⁽²⁾	United States
FilterDeal, LLC	United States
G & F Manufacturing, LLC	United States
Goyen Controls Co. Pty. Limited	Australia
Goyen Valve LLC	United States
Greenspan Environmental Technology Pty Ltd	Australia
Haffmans B.V.	Netherlands
Hypro EU Limited	United Kingdom
Jung Pumpen GmbH	Germany
Lincoln Automotive Company	United States
Manitowoc Foodservice (Switzerland) GmbH	Switzerland
Manitowoc FSG Holding, LLC	United States
Manitowoc FSG Manufactura Mexico, S. de R.L. de C.V.	Mexico
McNeil (Ohio) Corporation	United States
MECAIR S.r.L.	Italy
Milperra Developments Pty Limited	Australia
Mobile Pool Builder, Inc.	United States
Moraine Properties, LLC	United States
Nano Terra, Inc. ⁽³⁾	United States
Nijhuis Pompen B.V.	Netherlands
Panthro Acquisition Co.	United States
Pentair Aquatic Eco-Systems, Inc.	United States
Pentair Australia Holdings Pty Limited	Australia
Pentair Canada, Inc.	Canada
Pentair Clean Process Technologies India Private Limited	India
Pentair Commercial Ice LLC	United States
Pentair Commercial Services LLC	United States
Pentair Denmark Holding ApS	Denmark
Pentair Filtration Solutions, LLC	United States
Pentair Finance Group GmbH	Switzerland
Pentair Finance S.a.r.l.	Luxembourg
Pentair Finance Switzerland GmbH	Switzerland
Pentair Flow Control International Pty Limited	Australia
Pentair Flow Services AG	Switzerland
Pentair Flow Technologies de Mexico, S. de R.L. de C.V.	Mexico
Pentair Flow Technologies Pacific Pty Ltd	Australia
Pentair Flow Technologies, LLC	United States
Pentair France SARL	France
Pentair Germany GmbH	Germany
Pentair Global Holdings B.V.	Netherlands
Pentair Global S.a.r.l.	Luxembourg

Pentair Group (Thailand) Limited	Thailand
Pentair Holdings S.a.r.l.	Luxembourg
Pentair Holdings, Inc.	United States
Pentair International (UK) Ltd	United Kingdom
Pentair International Holding S.a.r.l.	Luxembourg
Pentair International Sarl	Switzerland
Pentair Investments Switzerland GmbH	Switzerland
Pentair Ireland Limited	Ireland
Pentair Luxembourg S.a.r.l.	Luxembourg
Pentair Management Company	United States
Pentair Manufacturing Belgium BV	Belgium
Pentair Manufacturing Italy S.r.L.	Italy
Pentair Middle East FZE	United Arab Emirates
Pentair Netherlands Euro Finance B.V.	Netherlands
Pentair Netherlands Holding B.V.	Netherlands
Pentair Pacific Rim (Water) Limited	Hong Kong
Pentair Pacific Rim, Limited	Hong Kong
Pentair Philippines, Inc. ⁽⁴⁾	Philippines
Pentair Pleatco Acquisition LLC	United States
Pentair Residential Filtration, LLC	United States
Pentair Sudmo GmbH	Germany
Pentair Trading (Shanghai) Co., Ltd.	China
Pentair UK Holdings Limited	United Kingdom
Pentair US LLC 1	United States
Pentair US LLC 2	United States
Pentair US LP	United States
Pentair Water (Suzhou) Company, Ltd.	China
Pentair Water Asia Pacific Pte. Ltd.	Singapore
Pentair Water Australia Pty Ltd	Australia
Pentair Water Belgium BV	Belgium
Pentair Water Brazil LLC	United States
Pentair Water do Brasil Ltda.	Brazil
Pentair Water France SAS	France
Pentair Water Group, Inc.	United States
Pentair Water Holdings, LLC	United States
Pentair Water India Private Limited	India
Pentair Water Italy S.r.l.	Italy
Pentair Water Operations Australia Pty Ltd	Australia
Pentair Water Polska Sp.zoo	Poland
Pentair Water Pool and Spa, Inc.	United States
Pentair Water Proces Technologie Holding B.V.	Netherlands
Pentair Water Process Technology B.V.	Netherlands
Pentair Water Purification Systems (Shanghai) Co., Ltd.	China
Pentair Water Solutions (Hangzhou) Company, Ltd.	China
Pentair Water Spain, S.L.	Spain
Pentair Water Treatment (OH) Company	United States
Pentair Water Treatment Company	United States
Pentair Water Treatment Private Limited	India
Pentair Water, LLC	United States
Pentair Water-Mexico, S. de R.L. de C.V.	Mexico
Pentair, Inc.	United States
Penwald Insurance Company	United States
PES Pty Ltd	Australia
Pleatco Mexican Holding Company, LLC	United States
Pleatco Mexicana, S. De R.L. De C.V.	Mexico

Pleatco, LLC	United States
Plymouth Products, LLC	United States
Seneca Enterprises Co.	United States
Sta-Rite Industries, LLC	United States
Surface Logix LLC ⁽⁵⁾	United States
Union Engineering (NingBo) Co., Ltd.	China
Union Engineering A/S	Denmark
Union Engineering Holding LLC	United States
Union Engineering Latam Ltda	Brazil
Union Engineering North America LLC	United States
Voltea Ltd. ⁽⁶⁾	United Kingdom
Webster Electric Company, LLC	United States
Wicor Industries (Australia) Pty. Ltd.	Australia
X-Flow B.V.	Netherlands

- (1) 12.41% owned
- (2) 50% owned
- (3) 0.9% owned
- (4) 99.99% owned
- (5) 0.01% owned
- (6) 1.69% owned

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in Registration Statement Nos. 333-184151, 333-184152, and 333-238544 on Form S-8 and Registration Statement No. 333-265317 on Form S-3 of our reports dated February 25, 2025, relating to the financial statements of Pentair plc and the effectiveness of Pentair plc's internal control over financial reporting appearing in this Annual Report on Form 10-K for the year ended December 31, 2024.

/s/ Deloitte & Touche LLP

Minneapolis, Minnesota
February 25, 2025

Power of Attorney

KNOW ALL MEN BY THESE PRESENTS that the undersigned directors of Pentair plc, an entity organized under the laws of Ireland, hereby constitute and appoint John L. Stauch and Karla C. Robertson, or either of them, his/her attorney-in-fact and agent, with full power of substitution, for the purpose of signing on his/her behalf as a director of Pentair plc the Annual Report on Form 10-K, to be filed with the Securities and Exchange Commission within the next sixty days, and to file the same, with all exhibits thereto and other supporting documents, with the Commission, granting unto such attorney-in-fact, full power and authority to do and perform any and all acts necessary or incidental to the performance and execution of the powers herein expressly granted.

Date: February 25, 2025

<u>Signature</u>	<u>Title</u>
<u>/s/ Mona Abutaleb Stephenson</u> Mona Abutaleb Stephenson	Director
<u>/s/ Melissa Barra</u> Melissa Barra	Director
<u>/s/ Tracey Doi</u> Tracey Doi	Director
<u>/s/ T. Michael Glenn</u> T. Michael Glenn	Director
<u>/s/ Theodore L. Harris</u> Theodore L. Harris	Director
<u>/s/ David A. Jones</u> David A. Jones	Director
<u>/s/ Gregory E. Knight</u> Gregory E. Knight	Director
<u>/s/ Michael T. Speetzen</u> Michael T. Speetzen	Director
<u>/s/ Billie I. Williamson</u> Billie I. Williamson	Director

Certification

I, John L. Stauch, certify that:

1. I have reviewed this report on Form 10-K of Pentair plc;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 25, 2025

/s/ John L. Stauch

John L. Stauch

President and Chief Executive Officer

Certification

I, Robert P. Fishman, certify that:

1. I have reviewed this report on Form 10-K of Pentair plc;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 25, 2025

/s/ Robert P. Fishman

Robert P. Fishman

Executive Vice President, Chief Financial Officer and Chief Accounting Officer

**Certification of CEO Pursuant To
18 U.S.C. Section 1350,
As Adopted Pursuant To
Section 906 Of The Sarbanes-Oxley Act Of 2002**

In connection with the Annual Report of Pentair plc (the "Company") on Form 10-K for the period ended December 31, 2024 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, John L. Stauch, President and Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that based on my knowledge:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and result of operations of the Company.

Date: February 25, 2025

/s/ John L. Stauch

John L. Stauch

President and Chief Executive Officer

**Certification of CFO Pursuant To
18 U.S.C. Section 1350,
As Adopted Pursuant To
Section 906 Of The Sarbanes-Oxley Act Of 2002**

In connection with the Annual Report of Pentair plc (the "Company") on Form 10-K for the period ended December 31, 2024 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Robert P. Fishman, Executive Vice President, Chief Financial Officer and Chief Accounting Officer of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that based on my knowledge:

- (1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and result of operations of the Company.

Date: February 25, 2025

/s/ Robert P. Fishman

Robert P. Fishman

Executive Vice President, Chief Financial Officer and Chief Accounting Officer