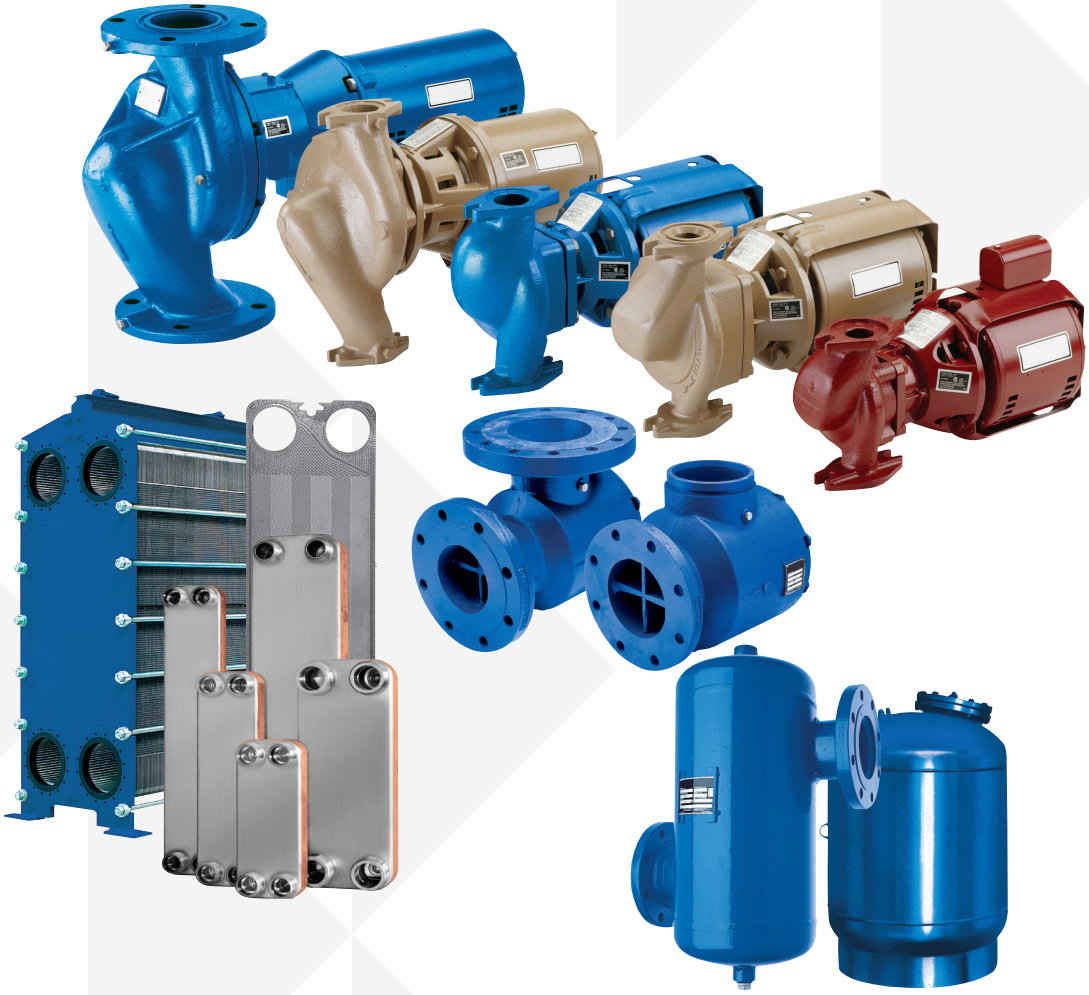
PENTAIR



AURORA®
HYDRONIC ACCESSORIES

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AURORA®
Hydronic Accessories

Aurora® Pump Hydronic Accessories give you the products necessary to build a reliable HVAC system.



1020 Series

Y-Strainers

Temperature: Up to 150˚F (65˚C)
Working Pressure: Up to 400 psi (2758 kPa)

- 304 SST screen helps protect pump and system from abrasive damage.
- Blow-off plug helps keep screen clean and pressure drop to minimum.
- Threaded or flanged.
- 1/2" NPT - 16" flanged.
- 19 sizes available.
- Cast iron, ASTM A48 valve body and cover. Modern design for this important product.



1030 Series

Suction Diffusers

Temperature: Up to 300˚F (150˚C)
Working Pressure: Up to 250 psi (1724 kPa)

- Direct mounting to the suction side of horizontal or vertical pumps.
- Elimination of long radius elbow, suction entrance pipe, and conventional Y-strainer, which leads to space savings.
- Available in sizes 2" to 17".
- Fine mesh brass start-up strainer and permanent strainer.
- Cast iron or ductile iron, with ANSI or PN16 flanges.
- Same size ports are available with oversized inlet flange to eliminate reducer.



1040 Series

3DV™ Triple Duty Combination Valves

Temperature: Up to 300˚F (150˚C)
Working Pressure: Up to 375 psi (2586 kPa)

- Combined check, throttling and shut-off valve.
- Designed and tested for drip-tight isolation at 150% of maximum working pressure.
- Eliminates requirement for two separate valves on pump discharge and, in some cases, a 90° elbow.
- Reduced field installation and material costs.
- Design permits the valve to be changed on site from the straight to the angle configuration.
- 2-1/2" to 12" sizes.
- 1-1/4" NPT to 12" flanged.



1050 Series

Air Separators

Temperature: Up to 450˚F (232˚C)
Working Pressure: Up to 165 psi (1140 kPa)

- Eliminates entrained air from heating and cooling systems.
- Improves heat transfer efficiency.
- Extends the life of the system by reducing corrosion and erosion.
- Reduces the overall energy costs of your system.
- Cast iron is available in 2", 2-1/2", 3", 4", 5" and 6" sizes.
- Fabricated steel in 8" to 24" sizes.
- Larger sizes also available.
- 1" to 24" pipe inlet.

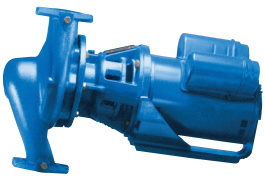


1060 Series

Expansion Tanks

Temperature: Up to 450˚F (232˚C)
Working Pressure: Up to 150 psi (1034 kPa)

- Manufactured in accordance with ASME Section VIII for unfired pressure vessels.
- Tanks can be sized up to 80% smaller than a conventional tank.
- Improved system performance.
- Horizontal or vertical.
- Steel tanks.
- ASME or non-ASME models.
- Reduced system corrosion.
- 7 gallons to 211 gallons.



1070 Series

Custom Inline Circulators

Temperature: Up to 225˚F (107˚C)
Working Pressure: Up to 175 psi (1207 kPa)

- Radially-split body can be left in the line while servicing the pump. Eliminates needless disconnecting of pipes.
- Shafts have integral thrust collars, heat-treated to provide long life under severe duty conditions.
- Extra long sleeve bearings to keep shaft in perfect alignment and provide quiet operation.
- Mechanical seal made of long-lasting, hard-wearing materials which ensure many years of noise-free, trouble-free service.
- Features the unique Aurora shaft and bearing module for ease of serviceability and reduced inventory costs.

Why Buy Aurora Hydronic Accessories?

- Higher performance thanks to better design
- Lower overall costs for installation and maintenance
- Versatility with a wide range of sizes to fit your needs
- Outstanding customer service for more than 90 years



1070 Series

Wet Rotor Circulators

Temperature: Up to 230˚F (110˚C)
Working Pressure: Up to 150 psi (1034 kPa)

- Conserves energy and eliminates maintenance.
- Body is constructed of cast iron for closed systems and bronze for open systems.
- Designed for closed hydronic or potable water systems.
- Extremely quiet operating.
- These circulators are maintenance free.
- Self-lubricated by the system fluid, these circulators have no seals to leak or coupling to break.



1070 Series

3-Piece Circulators

Temperature: Up to 225°F (107°C)
Working Pressure: Up to 175 psi (1207 kPa)

- Standard 3-piece design featuring radially-split body, oversized shaft, centrifugal impeller, positive mechanical seal and modular construction.
- The radially-split body can be left inline while servicing the pump, eliminating cumbersome disconnecting of pipes.
- Suitable for applications such as hydronics heating and cooling, domestic water systems, multistage zoning and general industrial service.

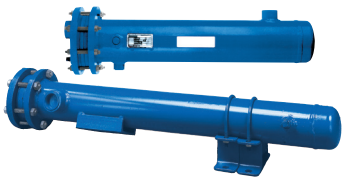


1070 Series

Dry Rotor Circulators

Temperature: Up to 230˚F (110˚C)
Working Pressure: Up to 150 psi (1034 kPa)

- Up to 74% more efficient than competitive pumps of similar power.
- Durable, versatile and designed to be used in a wide range of applications.
- Easy-to-replace mechanical seal costs a fraction of the price of installing a new replacement circulator.
- Easy to upgrade existing installations.
- High performance components designed, constructed and assembled to give years of trouble-free service.



1080 Series

Shell and Tube Heat Exchangers

Temperature: Up to 450˚F (232˚C)
Working Pressure: Up to 400 psi (2758 kPa)

- Includes a removable tube bundle as a standard feature.
- U-bend tube design.
- Long service life by reducing the effects of thermal expansion and contraction.
- Carbon steel components, 3/4" (19 mm) copper tubes.
- Rugged cast iron head.
- Provides dependable, efficient performance for a broad range of commercial and industrial applications where fluids must be quickly heated or cooled.
- Available in numerous material and working pressures.



1081 BP Series

Brazed Plate Heat Exchangers

Temperature: Up to 200˚F (93˚C)
Working Pressure: Up to 450 psi (3103 kPa)

- Reduces the overall cost of the radiant floor system installation for many radiant floor applications.
- By using the APSM0 series, it is possible to interface steam boilers to radiant floor systems, both low pressure and high pressure steam systems (up to 300 psi).
- Can be used in applications whereby the approach temperatures can be 10˚F or less and as low as 2˚F.
- Offer a compact, high output capacity for domestic hot water heating applications.
- Very cost effective in snow melt applications, providing high output, fast response and separation of the fluids.



1082PF Series

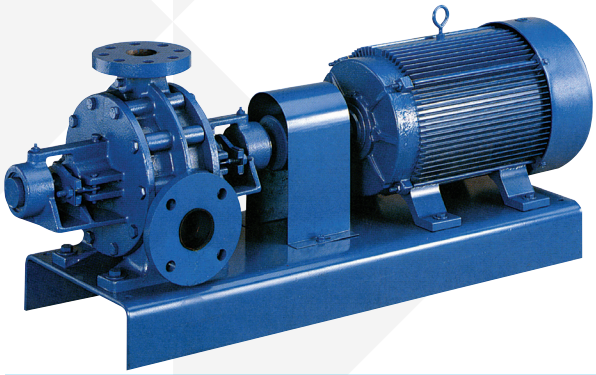
Gasketed Plate Heat Exchangers

Temperature: Up to 225˚F (107˚C)
Working Pressure: Up to 300 psi (2068 kPa)

- Used for multiple and high pressure applications.
- Materials, sizes, and plate configurations offered in a wide variety combined with sophisticated selection software for perfect selection of all your needs.
- Design makes full use of the plate area, increasing efficiency with fewer plates providing even media flow over the entire width.
- Shorter down times result from our faster and more efficient maintenance.
- A 1˚F temperature approach in a single-pass design.

The Aurora family of pumps has the right pump for your commercial application

Regenerative Turbine • Condensate • Boiler Feed • End Suction
Multistage Vertical Inline • Split Case • Sump • Booster







Product Performance Ranges	Maximum Capacity Range*		
PUMP SERIES	Flow – GPM/m³/hr. (meters cubed/hr.)	Head – ft. / m	Temp. – °F / °C
100	Up to 150 / 34	Up to 920 / 280	Up to 275 / 135
200	Up to 180 / 41	Up to 575 / 175	Up to 210 / 99
300	Up to 4,500 / 1,022	Up to 790 / 241	Up to 300 / 149
3800	Up to 4,200 / 954	Up to 520 / 158	Up to 300 / 149
400	Up to 15,000 / 3,406	Up to 1,000 / 305	Up to 300 / 149
500	Up to 1,200 / 273	Up to 180 / 55	Up to 180 / 82
700	Up to 10,000 / 2,271	Up to 500 / 152	Up to 275 / 135

* Capacity range indicates multiple series in one pump category. See product sheets for complete specifications.

With over ninety years of experience, Aurora's commitment to excellence goes beyond the product line by being dedicated to keeping our customers, distributors and employees constantly educated and updated on the leading developments in technology. Our computer software programs assist with selecting the best pumps and systems along with providing pump drawings and specifications. These programs save valuable time in the selection and evaluation of pumps and systems.

As an ISO 9001 registered company, Aurora is committed to quality. In addition, to meet your quick ship requirements, the Aurora Distribution Center is stocked with parts and pumps to handle same day shipments. These components, along with our outstanding customer service program, will keep your Aurora system at peak performance for years to come. You can rely on Aurora and our qualified distribution network to provide total fluid flow solutions.

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Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice.
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