Aurora Pump has devoted itself since 1919 to the design and manufacture of a wide variety of fluid handling pumps for a vast amount of applications. Aurora Pump’s commitment to excellence is more than just a complete product line. With new product development, improved pump efficiencies and expansion of sizes to accommodate a broader range of applications, our growth has been continuous and aggressive. Not surprisingly, Aurora Pump’s quality management system is ISO 9001 Registered.

Aurora Pump offers computer software selection such as H₂Optimize and Encompass that is up to date and ready to serve your needs. The software programs select the best pump for a specific set of conditions and provide pump drawings, specifications and dimensions. Further product information is available 24 hours a day, 7 days a week, at our website www.aurorapump.com.

100 SERIES

Models 110A–120B
One and Two Stage Regenerative Turbine Pumps
- Flows: Up to 150 GPM (10 LPS)
- Heads: Up to 920' (280 m)
- Temperatures: Up to 275°F (135°C)
- Boiler Feed Service
- Condensate Service
- Cooling System
- Booster System
- Transfer Service

Model 130
Close Coupled Single Stage Regenerative Turbine Pumps
- Flows: Up to 50 GPM (3 LPS)
- Heads: Up to 700' (213 m)
- Temperatures: Up to 212°F (100°C)
- Hot Water Circulating Pumps
- Cooling Tower Makeup
- Boiler Feed Service
- Transfer Service
- TV and Radar Tube Cooling

200 SERIES

Model 150
Regenerative Turbine Process Pumps
- Flows: Up to 130 GPM (8 LPS)
- Heads: Up to 1,200' (366 m)
- Temperatures: Up to 500°F (260°C)
- Chemical Process
- Refineries
- Pulp and Paper
- Transfer Service

Model 210
One and Two Stage Condensate Systems
- Flows: Up to 150 GPM (10 LPS)
- Heads: Up to 270' (82 m)
- Temperatures: Up to 190°F (88°C)
- Condensate Service
- Boiler Feed Service
- Circulating Systems to Overhead Storage Receivers
Aurora® Pump’s distribution center is stocked with parts to handle same-day shipments. These parts, manufactured to original specifications, keep your pumps performing at peak performance for years to come.

**200 SERIES**

Model 220

**Single Stage Condensate and Boiler Feed Systems**

Flows: Up to 180 GPM (11 LPS)
Heads: Up to 170’ (52 m)
Temperatures: Up to 200°F (93°C)

- Boiler Feed Service
- Condensate Service

Model 280

**One and Two Stage Boiler Feed Systems**

Flows: Up to 100 GPM (6 LPS)
Heads: Up to 575’ (175 m)
Temperatures: Up to 210°F (99°C)

- Boiler Feed Service
- Condensate Service
- Cooling System
- Booster System
- Transfer Service

**300 SERIES**

Model 320

**Close Coupled Single Stage End Suction Pumps**

Flows: Up to 400 GPM (25 LPS)
Heads: Up to 210’ (64 m)
Temperatures: Up to 225°F (107°C)

- Hot Water Circulating Pumps
- Cooling Tower Makeup
- Boiler Feed Service
- Transfer Service
- TV and Radar Tube Cooling

Model 326

**In-Line Mounted Centrifugal Pumps**

Flows: Up to 140 GPM (9 LPS)
Heads: Up to 55’ (17 m)
Temperatures: Up to 225°F (107°C)

- Hot or Chilled Water Circulation
- Pressure Booster Systems
- Cooling Towers

**300 SERIES**

Models 340–360

**Single Stage End Suction Pumps**

Flows: Up to 4,500 GPM (284 LPS)
Heads: Up to 360’ (110 m)
Temperatures: Up to 300°F (150°C)

- Chilled Water
- Heating and Air Conditioning
- Cooling Tower Service
- Water Booster System

Model 370

**Two Stage End Suction Pumps**

Flows: Up to 310 GPM (20 LPS)
Heads: Up to 790’ (240 m)
Temperatures: Up to 300°F (150°C)

- Boiler Feed Service
- Condensate Service
- Low NPSHR

Model 380

**Single Stage In-Line Pumps**

Flows: Up to 4,500 GPM (284 LPS)
Heads: Up to 370’ (113 m)
Temperatures: Up to 250°F (121°C)

- In-Line Service
- Booster Service
Fluid Handling

PVM SERIES

Multi-Stage Vertical In-Line Centrifugal Pumps
- Boiler Feed
- Condensate Return
- Jockey Pump
- Irrigation
- Chemical Feed
- Car Wash

Industrial Process Pumps
ASME/ANSI B73.1M
- Chemical
- Petrochemical
- Mining
- Pulp and Paper
- Consumer Products
- General Industry

400 SERIES

Model 430
Two Stage Single Suction Diagonal Split Case Pumps
- Boiler Feed Service
- High Pressure Transfer
- Condensate Transfer

500 SERIES

Models 520–530
Single Stage Vertical Wet Pit Sump and Sewage Pumps
- Condensate Service
- Light Duty Sump Service
- Dirty Liquid Service

600 SERIES

Model 610
Single Stage Wet Pit, Sump and Sewage Pumps
- Horizontal and Vertical
- Solids Handling Sewage Treatment

400 SERIES

Models 410–420
Single Stage Double Suction/Two Stage Single Suction Split Case Pumps
- Cooling, Heating and Air Conditioning Service
- Boiler Feed Service
- Condensate Service
- High Pressure Water Service

500 SERIES

Models 520-530
Single Stage Vertical Wet Pit Sump and Sewage Pumps
- Boiler Feed Service
- Condensate Return
- Jockey Pump
- Condensate Return

600 SERIES

Models 630–640
Single Stage Vertical Wet Pit Sump and Sewage Pumps
- Horizontal and Vertical
- Solids Handling Sewage Treatment

PVM Series

Models 3550–3560
Industrial Process Pumps
- Chemical
- Petrochemical
- Mining
- Pulp and Paper
- Consumer Products
- General Industry

3500 SERIES

Models 3801–3804
Single Stage End Suction Pumps
- Chemical
- Petrochemical
- Mining
- Pulp and Paper
- Consumer Products
- General Industry

400 SERIES

Models 3801–3804
Single Stage End Suction Pumps
- Chemical
- Petrochemical
- Mining
- Pulp and Paper
- Consumer Products
- General Industry

500 SERIES

Models 500–600
Single Stage Vertical Wet Pit Sump and Sewage Pumps
- Boiler Feed Service
- Condensate Return
- Jockey Pump
- Condensate Return

600 SERIES

Models 630–640
Single Stage Vertical Wet Pit Sump and Sewage Pumps
- Horizontal and Vertical
- Solids Handling Sewage Treatment

PVM Series

Models 3550–3560
Industrial Process Pumps
- Chemical
- Petrochemical
- Mining
- Pulp and Paper
- Consumer Products
- General Industry

400 SERIES

Models 410–420
Single Stage Double Suction/Two Stage Single Suction Split Case Pumps
- Cooling, Heating and Air Conditioning Service
- Boiler Feed Service
- Condensate Service
- High Pressure Water Service

500 SERIES

Models 520–530
Single Stage Vertical Wet Pit Sump and Sewage Pumps
- Boiler Feed Service
- Condensate Return
- Jockey Pump
- Condensate Return

600 SERIES

Models 630–640
Single Stage Vertical Wet Pit Sump and Sewage Pumps
- Horizontal and Vertical
- Solids Handling Sewage Treatment

PVM Series

Models 3550–3560
Industrial Process Pumps
- Chemical
- Petrochemical
- Mining
- Pulp and Paper
- Consumer Products
- General Industry

400 SERIES

Models 410–420
Single Stage Double Suction/Two Stage Single Suction Split Case Pumps
- Cooling, Heating and Air Conditioning Service
- Boiler Feed Service
- Condensate Service
- High Pressure Water Service

500 SERIES

Models 520–530
Single Stage Vertical Wet Pit Sump and Sewage Pumps
- Boiler Feed Service
- Condensate Return
- Jockey Pump
- Condensate Return

600 SERIES

Models 630–640
Single Stage Vertical Wet Pit Sump and Sewage Pumps
- Horizontal and Vertical
- Solids Handling Sewage Treatment
Fluid Handling

600 SERIES

Models 650–660
Single Stage Wet Pit, Sump and Sewage Pumps
- Flows: Up to 2,600 GPM (164 LPS)
- Heads: Up to 240’ (73 m)
- Temperatures: Up to 250˚F (121˚C)
- Medium Duty
- Horizontal and Vertical
- Sludge and Slurry Pumping

700 SERIES

Models 7710–7720
Variable Speed Pumping Systems
- Intelliboost
- Chilled Water Systems
- Hot Water Systems
- Booster Service

700 SERIES

Model 670
Single Stage Vertical Wet Pit Sump and Sewage Pumps
- Flows: Up to 1,025 GPM (65 LPS)
- Heads: Up to 160’ (49 m)
- Temperatures: Up to 180˚F (82˚C)
- Sludge and Slurry Pumping
- Food Processing
- Abrasive Mixtures

Models 670
Single Stage Vertical Wet Pit Sump and Sewage Pumps
- Flows: Up to 25 GPM (2 LPS)
- Heads: Up to 180’ (55 m)
- Temperatures: Up to 190˚F (88˚C)
- Lubrication and Flushing of Clean Water for Seals and Packing Boxes

1000 SERIES – Hydronics Accessories

Models 770–790
CP Boss Booster Systems
- CP-Boss Duplex and Triplex
- Constant Pressure Booster System
- High Rise Building

1020 Series
Y-Strainers
- 1/2” NPT – 14” Flanged
- 304 Stainless Steel Screen
- Threaded or Flanged

1030 Series
Suction Diffusers
- 21 Sizes Up to 12” x 12”
- 304 Stainless Steel Screen
- 125# ANSI Flanges

WWW.AURORAPUMP.COM
Fluid Handling

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

1000 SERIES – Hydronics Accessories

1040 Series
3DV Combination Valves
1-1/4” NPT to 12” Flanged
- Non-Slam Check Valve
- Shutoff Valve
- Throttling Valve

1050 Series
Air Separators
1” to 24” Pipe Inlet
- Steel Construction
- With or Without Strainers

1060 Series
Expansion Tanks
7 Gallons to 211 Gallons
- Horizontal or Vertical
- Steel or Fiberglass
- ASME or Non-ASME Models

1070 Series
Circulators
- Custom In-Line Circulators
- Wet Rotor Circulators
- 3-Piece Circulators
- Dry Rotor Circulators

1090 Series
Flexible Connectors
1/2” to 14”
- Flanged Connectors
- Threaded Connectors
- Multi-Ply Connectors
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 stainless steel 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.

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
Custom In-Line 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.

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” and 3” sizes.
• Fabricated steel in 4” 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
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.
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 in line 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.

1070 Series

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 APSMO 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.
• Offers 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
Multi-Stage Vertical Inline • Split Case • Sump • Booster

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 Pump 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 Pump system at peak performance for years to come. You can rely on Aurora Pump and our qualified distribution network to provide total fluid flow solutions.

<table>
<thead>
<tr>
<th>Product Performance Ranges</th>
<th>Maximum Capacity Range*</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUMP SERIES</td>
<td>Flow – GPM/m³/hr. (meters cubed/hr.)</td>
</tr>
<tr>
<td>100</td>
<td>Up to 150 / 34</td>
</tr>
<tr>
<td>200</td>
<td>Up to 180 / 41</td>
</tr>
<tr>
<td>300</td>
<td>Up to 4,500 / 1,022</td>
</tr>
<tr>
<td>3800</td>
<td>Up to 4,200 / 954</td>
</tr>
<tr>
<td>400</td>
<td>Up to 15,000 / 3,406</td>
</tr>
<tr>
<td>500</td>
<td>Up to 1,200 / 273</td>
</tr>
<tr>
<td>700</td>
<td>Up to 10,000 / 2,271</td>
</tr>
</tbody>
</table>

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