



AURORA[®]
Pentair Water

1070 Series 3-Piece Circulators



motralec

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Aurora 3-Piece Circulators

Aurora 1070 Series 3-piece circulators are suitable for applications such as hydronics heating and cooling, domestic water systems, multistage zoning and general industrial service. Both models are available in a wide range of sizes to match the performance requirements of any of these applications.

Design Features

Aurora 1070 Series 3-piece circulators are built using a standard 3-piece design that features a radially-split body, oversized shaft, centrifugal impeller, positive mechanical seal and modular construction.

Body

The radially-split body can be left in line while servicing the pump, eliminating cumbersome disconnecting of pipes.

Oversized Shaft

Aurora circulating pumps have oversized shafts made from special alloy steel, machined to exacting tolerances. Shafts have integral thrust collars, heat-treated to provide long life under severe working conditions.

Centrifugal Impeller

The balanced, centrifugal-design impeller ensures maximum water delivery in the HVAC system.

Positive Mechanical Seal

Made from long-lasting, hard-wearing materials, it ensures many years of noise-free, trouble-free service.



Modular Construction

Models 325–357 feature a unique Aurora shaft and bearing module which fits all of these models for ease of serviceability and reduced inventory costs.

Materials of Construction

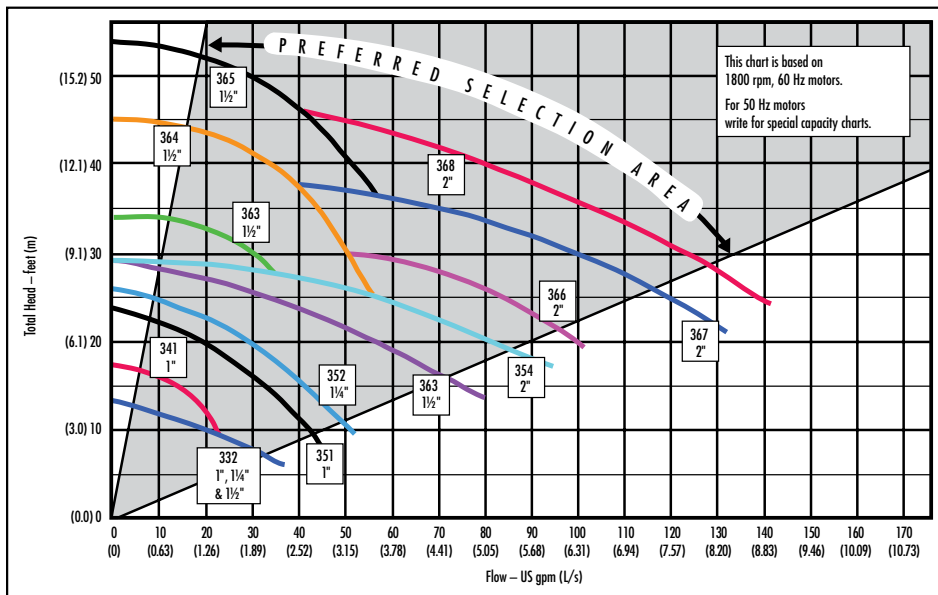
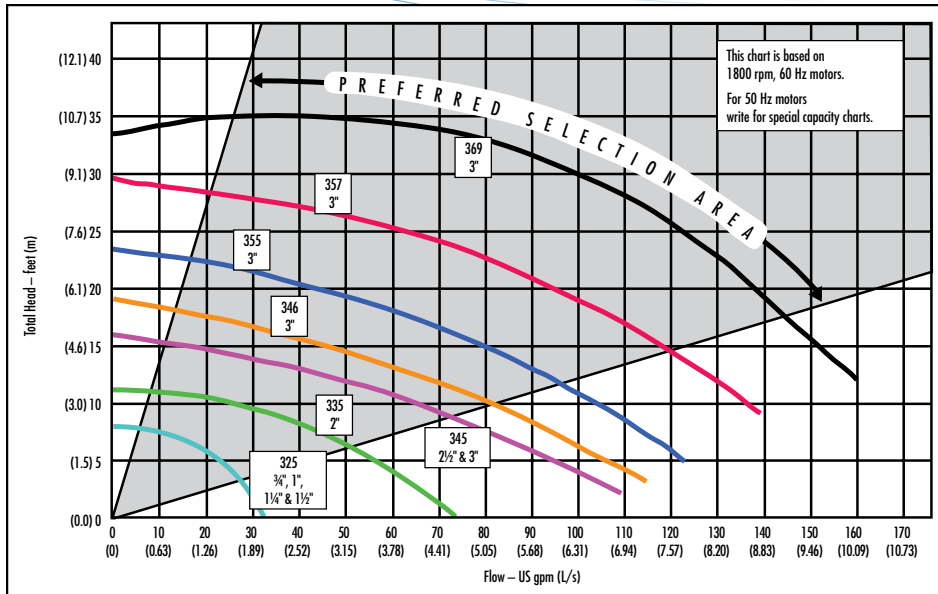
Part Name	Iron Body Pump	Bronze Body Pump
	Bronze-Fitted Construction	
Volute	Cast Iron	Bronze
Impeller: 1070-APx325–357 1070-APx369 1070-APx363–368	Non-Ferrous Brass-Stamped Cast Bronze	Non-Ferrous Brass-Stamped Cast Bronze
Shaft	Alloy Steel – Copper Sleeve	Alloy Steel – Copper Sleeve
Mechanical Seal Assembly	Carbon Brass Trim – Ceramic Seat	

Design Information

Part Name	Iron Body Pump	Bronze Body Pump
	Bronze-Fitted Construction	
Maximum Operating Temperature	225°F (107°C)	225°F (107°C)
Maximum Working Pressure: 325–346, 355–357, 369 351–354, 363–368	125 psi (862 kPa) 175 psi (1207 kPa)	125 psi (862 kPa) 175 psi (1207 kPa)

Notes: 1) All circulators are to be mounted with pump and shaft in **horizontal** position.
2) For domestic hot water or fresh water systems, always specify bronze body pumps.
3) For temperatures over 225°F (107°C) consult your Aurora Representative.

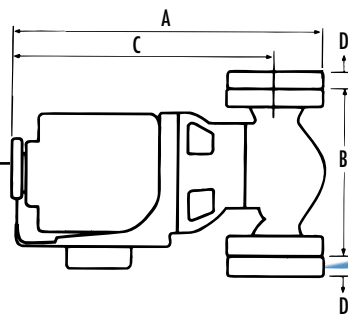
1070 Series Product Offering



Typical Specification

Furnish and install as shown on the plans, Aurora 3-piece circulating pump, designed for quiet operation and guaranteed by the manufacturer for the intended application. The pump shall have a capacity of ____ US gpm (L/s), handling (state liquid and temperature) against a total head of ____ ft (m). Pump shall be equipped with a ____ HP (kW), ____ volt, ____ phase, ____ Hz, 1800 rpm drip-proof mounted motor. Pump shall be ____ construction, 3-piece design featuring the Aurora shaft and bearing module which shall fit all models 325–357. The shaft shall have an integral thrust collar and shall be supported by oil-lubricated bronze sleeve bearings. Pump to be equipped with a watertight, long-life mechanical seal and be suitable for ____ psi (kPa) working pressure.

Pump and Motor Data



Model	Flange Size (NPT)	Motor		Dimensions in inches (mm)				Shipping Weight lbs. (kg)
		HP	Volts & Phase	A	B	C	D	
1070-APBF325	¾	½ ₁₂	115V 1 phase	13¾ (349)	6½ (165)	11½ (292)	¾ (19)	20 (9)
	1	½ ₁₂		13¾ (349)	6½ (165)	11½ (292)	¾ (19)	20 (9)
	1¼	½ ₁₂		13¾ (349)	6½ (165)	11½ (292)	⅞ (22)	20 (9)
	1½	½ ₁₂		13¾ (349)	6½ (165)	11½ (292)	⅞ (22)	20 (9)
1070-APBF335	2	⅙		15 (381)	8½ (216)	12½ (318)	⅞ (22)	35 (16)
1070-APBF345	2½	¼		15¾ (400)	10 (254)	12½ (318)	1 (25)	51 (23)
	3	¼		15¾ (400)	10 (254)	12½ (318)	1 (25)	51 (23)
1070-APBF346	3	⅓		15¾ (400)	10 (254)	12½ (318)	1 (25)	51 (23)
1070-APBF355	3	½	115/230V 1 phase or 208 – 230/460 or 575V 3 phase	19½ (495)	12 (305)	16 (406)	1 (25)	82 (37)
1070-APBF357	3	¾		20 (508)	12 (305)	16½ (419)	1 (25)	85 (39)
1070-APBF369	3	1		25 (635)	14¾ (362)	20¼ (514)	1 (25)	135 (61)
1070-APAB332	1	⅙	115V 1 phase	15 (381)	8½ (216)	12½ (318)	⅞ (22)	33 (15)
	1¼	⅙		15 (381)	8½ (216)	12½ (318)	⅞ (22)	33 (15)
	1½	⅙		15 (381)	8½ (216)	12½ (318)	⅞ (22)	33 (15)
1070-APAB341	1	⅙		15¼ (387)	8½ (216)	12½ (318)	¾ (19)	33 (15)
1070-APBF351	1	¼		17¼ (438)	11½ (292)	13½ (343)	¾ (19)	54 (24)
1070-APBF352	1¼	⅓		17¼ (438)	11½ (292)	13½ (343)	⅞ (22)	54 (24)
1070-APBF353	1½	½	115/230V 1 phase or 208 – 230/460 or 575V 3 phase	20 (508)	11½ (292)	16½ (419)	⅞ (22)	64 (29)
1070-APBF354	2	¾		20 (508)	11½ (292)	16½ (419)	⅞ (22)	71 (32)
1070-APBF363	1½	½		23 (584)	13½ (343)	19¾ (502)	⅞ (22)	96 (44)
1070-APBF364	1½	¾		23 (584)	13½ (343)	19¾ (502)	⅞ (22)	100 (45)
1070-APBF365	1½	1		23 (584)	13½ (343)	19¾ (502)	⅞ (22)	102 (46)
1070-APBF366	2	¾		23¼ (591)	14 (356)	19¾ (502)	⅞ (22)	120 (54)
1070-APBF367	2	1		23¼ (591)	14 (356)	19¾ (502)	⅞ (22)	125 (57)
1070-APBF368	2	1½		21¾ (552)	14 (356)	18¾ (464)	⅞ (22)	130 (59)

Notes: 1) Dimensions given are for reference only. For exact dimensional data, contact factory.
 2) All single-phase motors are equipped with built-in thermal overload protection. Three-phase motors require external overload protection.
 3) Companion flanges not furnished as standard on 325, 345 and 332.
 4) Conduit box not supplied on ½ HP or greater.
 5) For other design characteristics, consult your Aurora Representative.

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