



AURORA[®]
Pentair Water

1070 Series Wet Rotor Circulators



Materials of Construction

Pump Body:	Cast Iron (closed systems), Bronze (open systems)
Impeller:	Polypropylene (glass filled)
Shaft:	Stainless Steel
Bearings:	Graphite
Gasket Material:	EPDM

Technical Data

Flow Range:	0 to 20 US gpm (0 to 1.26 L/s)
Head Range:	0 to 32 ft (0 to 9.8 m)
Motor:	115V, single phase, 60 Hz
Max. Fluid Temp.*:	230°F (110°C)
Max. Working Pressure:	140 psi (965 kPa)

* Since water conditions (i.e. dissolved solids) can vary with geographical location, it is recommended that the operating temperature of the fluid for open (potable) systems be kept as low as possible (i.e. below 150°F or 65°C) to avoid precipitation of calcium.



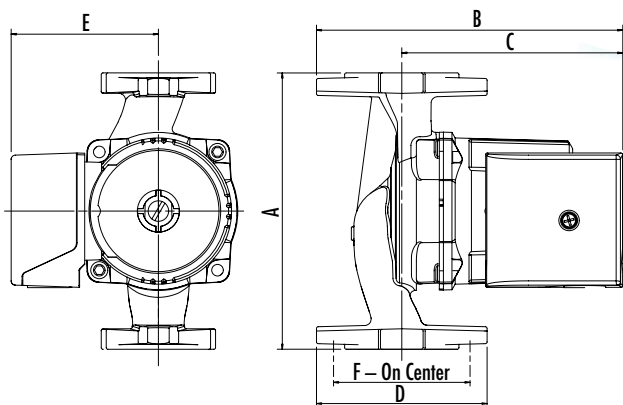
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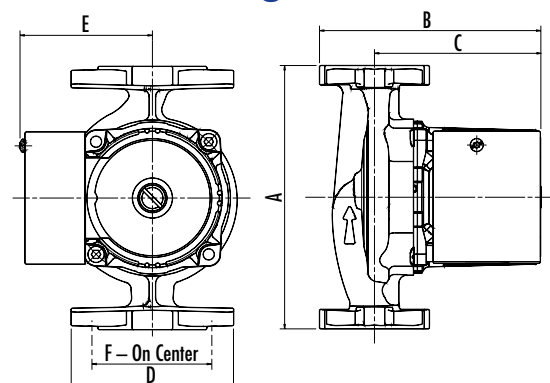
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Engineering Specifications

1070-303 / 1070-503 Flanged



1070-700 Flanged

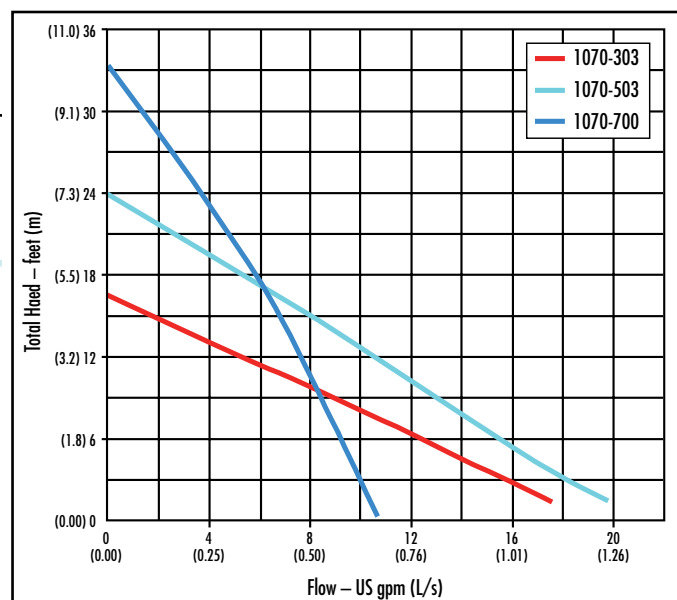


Dimensions and Weights

Bronze	A	B	C	D	E	F	Connection Type & Size	Weight
1070-303B	6 3/8 (162)	7 1/8 (180)	5 1/8 (130)	4 (102)	3 3/8 (86)	3 1/4 (80)	Flange – (2) 1/2" dia. bolt holes	7.0 (3.2)
1070-503B	6 3/8 (162)	7 1/8 (180)	5 1/8 (130)	4 (102)	3 3/8 (86)	3 1/4 (80)	Flange – (2) 1/2" dia. bolt holes	7.4 (3.4)
1070-700B	6 3/8 (162)	5 3/4 (146)	4 1/8 (105)	4 (102)	3 3/8 (80)	3 1/4 (80)	Flange – (2) 1/2" dia. bolt holes	7.7 (3.5)
Cast Iron	A	B	C	D	E	F	Connection Type & Size	Weight
1070-303	6 3/8 (162)	7 1/8 (180)	5 1/8 (130)	4 (102)	3 3/8 (86)	3 1/4 (80)	Flange – (2) 1/2" dia. bolt holes	6.5 (2.9)
1070-503	6 3/8 (162)	7 1/8 (180)	5 1/8 (130)	4 (102)	3 3/8 (86)	3 1/4 (80)	Flange – (2) 1/2" dia. bolt holes	6.8 (3.1)
1070-700	6 3/8 (162)	5 3/4 (145)	4 1/8 (105)	4 (102)	3 3/8 (80)	3 1/4 (80)	Flange – (2) 1/2" dia. bolt holes	7.0 (3.2)

Note: All dimensions are in inches (mm) and weights are in lbs (kg).

Performance Curves



Typical Specifications

Furnish and install, as shown on the plans, Aurora 1070 Series circulating pump model _____ with bronze/cast iron body and polypropylene impeller. The pump shall have a capacity of _____ US gpm (L/s) against a total head of _____ ft (m). Aurora 1070 Series are 115 V/single phase/60 Hz and are UL listed and CSA approved.

Motor Data

Model	Speed (RPM)	Full Load Amp Draw (A)	Nominal Power (HP)
1070-303	2800	0.70	1/25
1070-503	2800	0.95	1/20
1070-700	2800	1.0	1/20

Note: All above models are single speed.

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