

ARMSTRONG



James Electric

Wet Rotor Circulators

FILE NO:	10.12
DATE:	May 04, 2009
SUPERSEDES:	10.12
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► Technical Data

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

► Materials of Construction

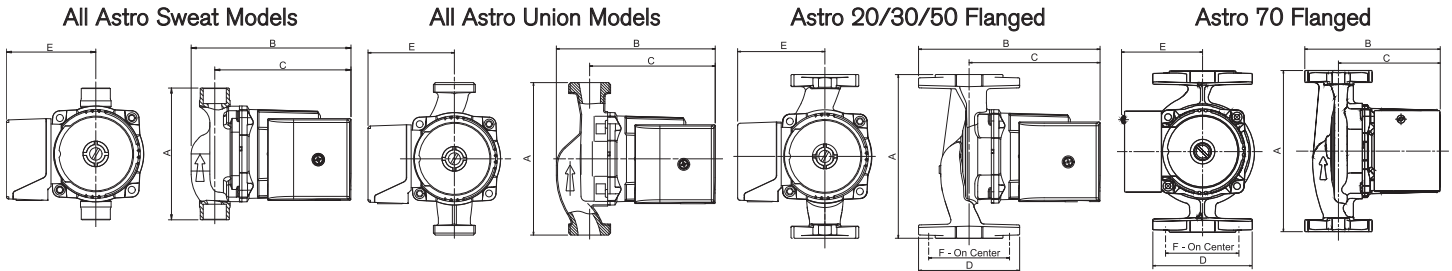
Pump Body: Cast Iron (closed systems), Bronze (open systems)
 Impeller: Polypropylene (Glass Filled)
 Shaft: Stainless Steel
 Bearings: Graphite
 Gasket Material: EPDM

► Dimensions and Weights

Bronze	A	B	C	D	E	F	Connection Type & Size	Weight
Astro 20B050S	5 (127)	6 1/8 (156)	5 1/4 (133)	-	3 3/8 (86)	-	Sweat - 1/2"	6.0 (2.7)
Astro 25B050S	5 (127)	6 1/8 (156)	5 1/4 (133)	-	3 3/8 (86)	-	Sweat - 1/2"	6.0 (2.7)
Astro 20B075S	5 (127)	6 1/8 (156)	5 1/4 (133)	-	3 3/8 (86)	-	Sweat - 3/4"	6.0 (2.7)
Astro 25B075S	5 (127)	6 1/8 (156)	5 1/4 (133)	-	3 3/8 (86)	-	Sweat - 3/4"	6.0 (2.7)
Astro 20BU	6 (152)	6 1/4 (159)	5 (127)	-	3 3/8 (86)	-	Union - 1 1/4" NPSM	6.5 (2.9)
Astro 25BU	6 (152)	6 1/4 (159)	5 (127)	-	3 3/8 (86)	-	Union - 1 1/4" NPSM	6.5 (2.9)
Astro 20BF	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)
Astro 30B	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)
Astro 50B	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)
Astro 70B	6 3/8 (162)	5 3/4 (146)	4 1/8 (105)	4 (102)	3 1/8 (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
Astro 20F	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)
Astro 30	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)
Astro 50	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)
Astro 70	6 3/8 (162)	5 3/4 (145)	4 1/8 (105)	4 (102)	3 1/8 (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).



► Motor Data

Model	Speed (rpm)	Full Load Amp Draw (A)	Nominal Power (hp)
Astro 20	3400	0.48	1/25
Astro 25	3000	0.58	1/25
Astro 30	2800	0.70	1/25
Astro 50	2800	0.95	1/20
Astro 70	2800	1.0	1/20

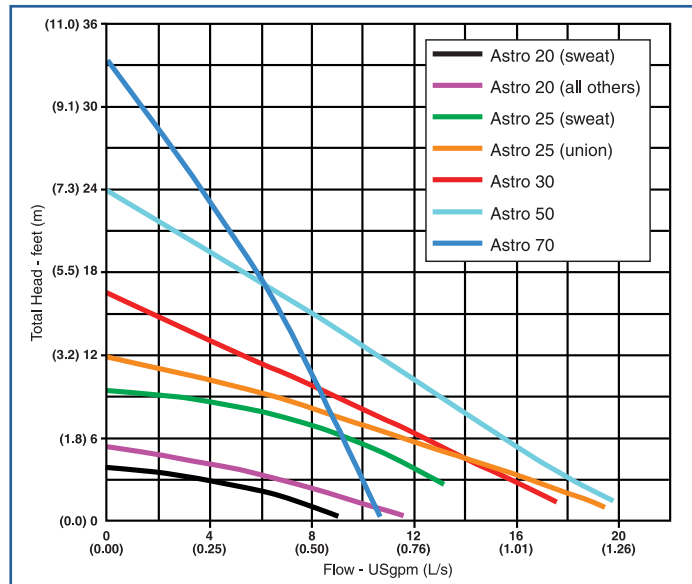
Note: All above models are single speed.

► Typical Specifications

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

*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.

► Performance Curves



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