



MORE VALUE BUILT IN BENI

BENEFITS



With four new sizes, the Astro 2 circulator range allows you to service more customers and address a broader range of applications. Astro 2 circulators offer contractorfriendly features for fast and convenient installation.

Astro 2 circulators will provide your customers years of trouble-free operation.

With new selection tools, finding the right Astro 2 model for your situation couldn't be easier.

BUILT TO WIN

R unning a contracting business is challenging. You want solutions that make your work easier, and simplify your installations. Armstrong understands your requirements and has built in the functionality and reliability you need to be successful.

Compare and check the details. Armstrong has listened to contractors and added a host of new features to the Astro 2 circulator line. No other circulator line on the market is designed with such attention to detail, and offers as much value to your contracting business and customers.

Expanded line with four new models. Astro 280, 290, 210 and 286 models are now available in both cast iron and stainless steel, allowing you to serve an even wider range of applications. The full Astro 2 offering for hydronics applications covers 100% of common competing models.

KEY FEATURES

Cross-reference information is printed on the box, for convenient access.

e-Coating on the inside of cast-iron volutes provides enhanced corrosion protection for improved reliability.

Flange-to-flange compatibility offers quick and easy exchange of competing models.

Large wiring box and convenient plug-in terminal strip save time.

High-flow check valve, is pre-installed for convenience. Where the installation does not call for a check valve, it can be removed in seconds.

Motor data

MODEL	INPUT	SPEED	FULL LOAD AMP DRAW (A)	NOMINAL POWER (W)		
ASTRO 210CI/SS		3	1.72			
		2	1.50	200		
		1	1.06			
ASTRO 220SSU		3	0.29			
		2	0.27	33		
		1	0.20			
ASTRO 225SSU		3	0.69	83		
		2	0.55			
		1	0.43			
ASTRO 230SS/ CI/CI-R	115V, бонz Single	3	0.81	97		
		2	0.58			
	phase	1	0.45			
ASTRO 250SS/ CI/CI-R		3	0.98	117		
		2	0.79			
		1	0.65			
astro 280ci/ss		3	1.90	218		
		2	1.80			
		1	1.50			
ASTRO 290CI/SS		3	1.90	218		
		2	1.60			
		1	1.40			
ASTRO 280CI/SS		3	0.90			
	230V,60HZ	2	0.86	210		
230V	Single	1	0.80			
ASTRO 286CI/SS	phase	1	1.60	375		

TECHNICAL DATA

Max. fluid temperature*: 185°F/85°C (Astro 286 up to 1.35A) 150°F/65°C (Astro 286 over 1.35A) 230°F/110°C (all others) Max. working pressure: 150 PSI / 1034 kPa Certification: ETL listed for US and Canada (conforms to UL STD.778 certified to CSA STD. C22.2 NO.108-01) NSF 372 (for lead free bronze and stainless steel models)

Warranty: 30 months

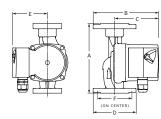
*Since water conditions can vary with geographical location (i.e. amount and type of dissolved solids) it is recommended that the operating temperature of the fluid for open (potable) systems be kept as low as possible (i.e. below 150°F or 65°c) to avoid precipitation of calcium.

MATERIALS OF CONSTRUCTION

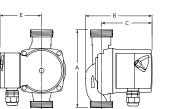
Pump body: • Cast iron (closed system) • Stainless steel** (open system) Impeller: Noryl Shaft: ceramic Bearings: ceramic Gasket: EPDM

**Certified <0.25 weighted average percent lead (NSF 372) and complies with California Health and Safety code section 116875 (commonly known as AB1953).

ASTRO 230SS/CI & 250SS/CI

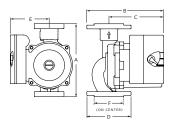


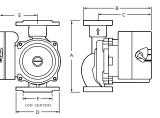
ASTRO 2205SU & 225SSU



ASTRO 230CI-R & 250CI-R

ASTRO 210CI/SS & 280SS





ASTRO 280CI, 290CI/SS & 286CI/SS

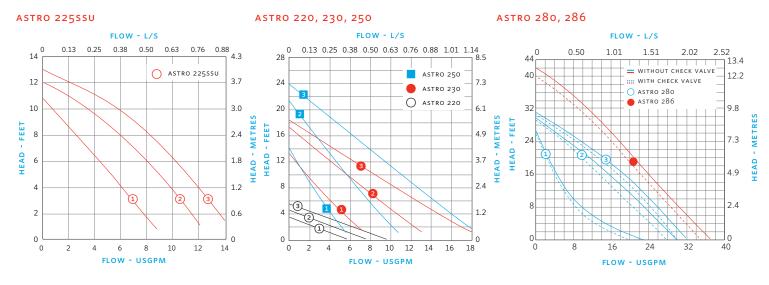
Dimensions and weights

STAINLESS STEEL*		А	В	с	D	E	F	CONNECTION TYPE & SIZE	WEIGHT
110223-309	Astro 220ssu**	6.00 (152)	5.00 (127)	4.00 (102)	—	3.00 (76)	_	Union - 1¼" NPSM	6.5 (2.9)
110223-310	Astro 225ssu**								
110223-306	Astro 230ss**	6.38 (162)	6.00 (150)	4.00 (102)	4.00 (102)	3.00 (76)	3.25 (80)	Flange - (2) ½" dia. bolt holes	8.0 (3.6)
110223-308	Astro 250ss**								
110223-327	Astro 210SS **								
110223-323	Astro 280ss (230v)**	6.50 (165)	6.37 (162)	4.87 (124)	4.00 (102)	3.50 (90)	3.13 (80)	Flange – (2) ½" dia. bolt holes	10.1 (4.6)
110223-325	Astro 286ss**	-							
110223-329	Astro 290ss**	8.50 (216)	6.65 (169)	5.20 (132)	4.00 (102)	3.50 (90)	3.45 (88)	Flange – (2) ½" dia. bolt holes	13.2 (6.0)
CAST IRON		А	В	с	D	E	F	CONNECTION TYPE & SIZE	WEIGHT
CAST IRON 110223-305	Astro 230ci**	A 6.38 (162)	в 6.00 (150)	c 4.00 (102)	D 4.00 (102)	Е 3.00 (76)	F 3.25 (80)	CONNECTION TYPE & SIZE Flange - (2) ½" dia. bolt holes	WEIGHT 8.0 (3.6)
	Astro 230ci** Astro 230ci-R**								
110223-305		6.38 (162)	6.00 (150)	4.00 (102)	4.00 (102)	3.00 (76)	3.25 (80)	Flange - (2) ½" dia. bolt holes	8.0 (3.6)
110223-305 110223-315	Astro 230CI-R**	6.38 (162) 6.38 (162)	6.00 (150) 5.63 (137)	4.00 (102) 4.00 (102)	4.00 (102) 4.00 (102)	3.00 (76) 3.00 (76)	3.25 (80) 3.25 (80)	Flange – (2) ½" dia. bolt holes Flange – (2) ½" dia. bolt holes	8.0 (3.6) 8.0 (3.6)
110223-305 110223-315 110223-307	Astro 230CI-R** Astro 250CI**	6.38 (162) 6.38 (162) 6.38 (162)	6.00 (150) 5.63 (137) 6.00 (150)	4.00 (102) 4.00 (102) 4.00 (102)	4.00 (102) 4.00 (102) 4.00 (102)	3.00 (76) 3.00 (76) 3.00 (76)	3.25 (80) 3.25 (80) 3.25 (80)	Flange - (2) ½" dia. bolt holes Flange - (2) ½" dia. bolt holes Flange - (2) ½" dia. bolt holes	8.0 (3.6) 8.0 (3.6) 8.0 (3.6)
110223-305 110223-315 110223-307 110223-317	Astro 230CI-R** Astro 250CI** Astro 250CI-R**	6.38 (162) 6.38 (162) 6.38 (162)	6.00 (150) 5.63 (137) 6.00 (150)	4.00 (102) 4.00 (102) 4.00 (102)	4.00 (102) 4.00 (102) 4.00 (102)	3.00 (76) 3.00 (76) 3.00 (76)	3.25 (80) 3.25 (80) 3.25 (80)	Flange - (2) ½" dia. bolt holes Flange - (2) ½" dia. bolt holes Flange - (2) ½" dia. bolt holes	8.0 (3.6) 8.0 (3.6) 8.0 (3.6)
110223-305 110223-315 110223-307 110223-317 110223-326	Astro 230CI-R** Astro 250CI** Astro 250CI-R** Astro 210CI**	6.38 (162) 6.38 (162) 6.38 (162) 6.38 (162)	6.00 (150) 5.63 (137) 6.00 (150) 5.63 (137)	4.00 (102) 4.00 (102) 4.00 (102) 4.00 (102)	4.00 (102) 4.00 (102) 4.00 (102) 4.00 (102)	3.00 (76) 3.00 (76) 3.00 (76) 3.00 (76)	3.25 (80) 3.25 (80) 3.25 (80) 3.25 (80)	Flange - (2) $\frac{1}{2}$ " dia. bolt holes Flange - (2) $\frac{1}{2}$ " dia. bolt holes Flange - (2) $\frac{1}{2}$ " dia. bolt holes Flange - (2) $\frac{1}{2}$ " dia. bolt holes	8.0 (3.6) 8.0 (3.6) 8.0 (3.6) 8.0 (3.6)

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

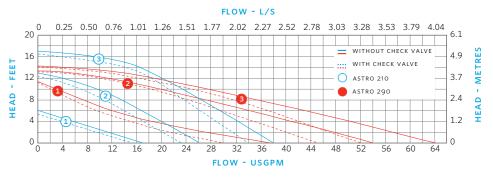
- * Certified <0.25 weighted average percent lead and complies with California Health and Safety Code Section 116875 (commonly known as AB 1953).
- ** Removable check valve installed at pump outlet.

Performance curves



ASTRO 210, 290

ContactUs



For more information, contact your

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