

FILE NO: 10.582
DATE: Sept. 13, 2007
SUPERSEDES: New
DATE: New

Astro Express Hot Water Delivery System

SUBMITTAL

JOB:	REPRESENTATIVE:			
	ORDER NO:	DATE:		
ENGINEER:	SUBMITTED BY:	DATE:		
CONTRACTOR:	APPROVED BY:	DATE:		

Quantity	Item#	Description				
	110123-400	Astro Express System (Wet rotor circulator with timer, line cord, union hardware, and one Astro Express valve)				
	561100-000	Astro Express Valve (only) for lengthy branches to additional faucets off main distribution pipe				

Hot Water Delivery System Applications

The Armstrong Astro Express system delivers hot water to the tap, recirculating cooled water back to the water heater via existing cold water piping. In addition to providing the homeowner instant hot water access, the system also helps to conserve municipal drinking water resources and save metered water charges. It's easy to install, and does not require special return piping to the water heater. This makes the Astro Express system the ideal retrofit solution for existing residential buildings, and a cost-effective solution for new housing construction.

TECHNICAL DATA

ASTRO EXPRESS CIRCULATO	OR .
Power Requirements	120 Vac, 60 Hz, 1/25 hp, 0.5 A max.
Power Connection	5.0 ft. (1.5 m) power cord, molded duplex plug with ground
maEnvironment	Indoor use only
Max. Head	5.8 ft. (1.7 m)
Max. Flow	11.5 GPM (0.73 L/s)
Max. Working Pressure	150 psi (1034 kPa)
Ambient Temperature	-40°F to 180°F (-40°C to 82°C)
Max. Water Temperature	230°F (110°C)
Clock Timer	12-hour analog clock with am/pm indication
Timer Settings	Individual toggles for each 15 minute interval over 24 hours
Manual Override	3 position slide switch, on/off/auto
Pump Casing	Cast Bronze with 1-1/4" NPSM union threads
Impeller	Glass filled Polypropylene
Shaft	Stainless steel
Bearings / Seal	Graphite / EPDM
Union Tailpieces	Brass, 3/4" FPT (two) and 3/4" MPT (one)
Union Gaskets	EPDM (two)
Approvals	c (UL) us listed

2/1000
ARMSTRONG =

ASTRO EXPRESS VALVE	
Housing	Forged brass with Noryl cap
Internal Components	Stainless steel and plastic with EPDM o-rings
Connections	Threaded, 1/2" hot & cold inlets, 3/8" hot & cold outlets
Environment	Indoor use only
Flowrate Adjustment	0 – 100%, multi-turn slotted screw
Max. Working Pressure	125 psi (862 kPa)
Max. Water Temperature	150°F (66°C)
Mounting	Plastic wall anchor with screw

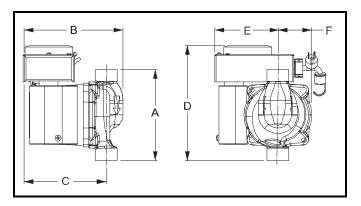




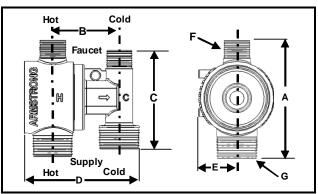
Dimensions and Weights								
Product	Α	В	С	D	E	F	G	Weight
Astro Express Circulator (with union tailpieces)	7.5 (191)	4.4 (112)	5.3 (134)	7.6 (195)	3.4 (86)	1.8 (46)		7.3 (3.3)
Astro Express Valve	2.5 (63)	1.5 (38)	2.1 (53)	2.6 (66)	0.8 (20)	3/8" IPS	1/2" IPS	0.40 (0.18)

Note: All dimensions are in inches (mm)

Astro Express Circulator



Astro Express Valve





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