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# Astro Express Hot Water Delivery System

**SUBMITTAL** 

JOB:	REPRESENTATIVE:	REPRESENTATIVE:			
ENGINEER:CONTRACTOR:		DATE: DATE: DATE:			

Quantity	ltem#	# Description				
110123-401		Astro Express System (Wet rotor circulator with timer, line cord, union hardware, and one Astro Express valve)				
561100-001		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**

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ASTRO EXPRESS CIRCULATO	DR		
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	140 psi (965 kPa)		
Ambient Temperature	39°F (4°C) to 104°F (40°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	nion Tailpieces Brass, 3/4" FPT (two) and 3/4" MPT (one)		
Union Gaskets	EPDM (two)		
Approvals	c (U) us listed		



# 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	100 psi (689 kPa)	
Max. Water Temperature		140°F (60°C)	
	Mounting	Plastic wall anchor with screw	



PWHS - 866-289-4652



Dimensions and Weights								
Product	A	В	С	D	E	F	G	Weight
Astro Express Circulator (with union tailpieces)	7.5 (191)	4.4 (112)	5.3 (134)	7.9 (200)	3.4 (86)	1.8 (46)		7.3 (3.3)
Astro Express Valve	2.5 (63)	1.5 (38)	2.1 (53)	2.8 (71)	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**





