

---

**ASTRO CIRCULATORS**

---

**ASTRO 3 Speed:**

**IRON BODY CONSTRUCTION**

Model No.	Part No.	Connection	List Price	Wt.ea.lbs.
ASTRO-30-3	110123-305	Replaced by 110223-305 (Astro 2)		
ASTRO-50-3	110123-307	Replaced by 110223-307 (Astro 2)		

**BRONZE BODY CONSTRUCTION**

Model No.	Part No.	Connection	List Price	Wt.ea.lbs.
ASTRO-30B-3	110123-306	Replaced by 110223-306 (Astro 2)		
ASTRO-50B-3	110123-308	Replaced by 110223-308 (Astro 2)		

**ASTRO Single Speed:**

**IRON BODY CONSTRUCTION**

Model No.	Part No.	Connection	List Price	Wt.ea.lbs.
ASTRO-20F	110123-013	Flanged	\$ 161.00	7
ASTRO-30	110123-005	Replaced by 110223-305 (Astro 2)		
ASTRO-50	110123-007	Replaced by 110223-307 (Astro 2)		
ASTRO-70	110123-011	Flanged	\$ 306.00	7

**BRONZE BODY CONSTRUCTION**

Model No.	Part No.	Connection	List Price	Wt.ea.lbs.
ASTRO-20BS	110123-001	Replaced by 110223-301 (Astro 2)		
ASTRO-20BS	110123-002	Sweat - 3/4"	\$ 298.00	6
ASTRO-25BS	110123-003	Replaced by 110223-303 (Astro 2)		
ASTRO-25BS	110123-004	Replaced by 110223-304 (Astro 2)		
ASTRO-20BU	110123-009	Union	\$ 300.00	6.5
ASTRO-25BU	110123-010	Replaced by 110223-310 (Astro 2)		
ASTRO-20BF	110123-014	Flanged	\$ 298.00	8
ASTRO-30B	110123-006	Replaced by 110223-306 (Astro 2)		
ASTRO-50B	110123-008	Replaced by 110223-308 (Astro 2)		
ASTRO-70B	110123-012	Flanged	\$ 460.00	8

---

## ASTRO CIRCULATORS

---

**COMPANION FLANGE KITS (contains two (2) flanges, hardware & gaskets)**

**CAST IRON**

Model	Part No.	Size	List Price	Wt. (lbs.)
ASTRO 20/30/50/70	816013-111	0.75"	\$ 20.00	2
ASTRO 20/30/50/70	816012-111	1"	\$ 20.00	2
ASTRO 20/30/50/70	816011-111	1.25"	\$ 20.00	2
ASTRO 20/30/50/70	816009-111	1.5"	\$ 20.00	3

**BRONZE**

Model	Part No.	Size	List Price	Wt. (lbs.)
ASTRO 20B/30B/50B/70B	816013-141	0.75"	\$ 66.00	2
ASTRO 20B/30B/50B/70B	816012-141	1"	\$ 66.00	2
ASTRO 20B/30B/50B/70B	816011-141	1.25"	\$ 76.00	2
ASTRO 20B/30B/50B/70B	816009-141	1.5"	\$ 86.00	3

**UNION FITTING SETS (contains two (2) half unions & gaskets)**

Model	Part No.	Connection	List Price	Wt. (lbs.)
ASTRO 20/25BU	810120-220	1.25" NPSM x 0.5" Sweat	\$ 45.00	2
ASTRO 20/25BU	810120-222	1.25" NPSM x 0.75" Sweat	\$ 45.00	2
ASTRO 20/25BU	810120-224	1.25" NPSM x 0.75" FNPT	\$ 51.00	2

**ASTRO DOMESTIC HOT WATER RE-CIRCULATION SYSTEMS**

**ASTRO Express System** (for 2 pipe installation)

Model No.	Part No.	Description	List Price	Lead time	Wt. ea. lbs.
Astro Express System	110123-401	Astro 20 BU-T, union hardware kit*, Astro Express Valve	\$ 539.00	1 week	7.5
Astro Express Valve	561100-000	Extra valve for long branches off main distribution (optional)	\$ 115.00	1 week	0.5

\* Includes two gaskets, union nuts, 3/4" FPT tailpieces, and one 3/4" MPT tailpiece. Hoses for valve connection not included.

**ASTRO HWR Systems** (for dedicated return - 3 pipe installation)

	Model No.	Part No.	Connection/Controls	List Price	Lead time	Wt. ea. lbs.
Timer Aquastat Line Cord	ASTRO 20B050S-TA	110123-140	Replaced by 110223-140			
	ASTRO 20B075S-TA	110123-141	Astro-20 Brz 3/4" sweat w/ timer, aquastat & 6 ft. line cord	\$ 467.00	1 week	7
	ASTRO 25B050S-TA	110123-142	Replaced by 110223-142			
	ASTRO 25B075S-TA	110123-143	Replaced by 110223-143			
	ASTRO 20BU-TA	110123-144	Astro 20 Brz union w/ timer, aquastat & 6 ft. line cord	\$ 469.00	1 week	7
	ASTRO 25BU-TA	110123-145	Replaced by 110223-145			
	ASTRO 20BF-TA	110123-146	Astro 20 Brz flanged w/ timer, aquastat & 6 ft. line cord	\$ 467.00	1 week	9
	ASTRO 30B-TA	110123-148	Replaced by 110223-148			
	ASTRO 50B-TA	110123-149	Replaced by 110223-149			
	ASTRO 70B-TA	110123-150	Astro 70 Brz flanged w/ timer, aquastat & 6 ft. line cord	\$ 632.00	3 weeks	9
Timer Line Cord	ASTRO 20B050S-T	110123-240	Replaced by 110223-240			
	ASTRO 20B075S-T	110123-241	Astro-20 Brz 3/4" sweat w/ timer & 6 ft. line cord	\$ 451.00	1 week	7
	ASTRO 25B050S-T	110123-242	Replaced by 110223-242			
	ASTRO 25B075S-T	110123-243	Replaced by 110223-243			
	ASTRO 20BU-T	110123-244	Astro 20 Brz union w/ timer & 6 ft. line cord	\$ 453.00	1 week	7
	ASTRO 25BU-T	110123-245	Replaced by 110223-245			
	ASTRO 20BF-T	110123-246	Astro 20 Brz flanged w/ timer & 6 ft. line cord	\$ 451.00	1 week	9
	ASTRO 30B-T	110123-248	Replaced by 110223-248			
	ASTRO 50B-T	110123-249	Replaced by 110223-249			
	ASTRO 70B-T	110123-250	Astro 70 Brz flanged w/ timer & 6 ft. line cord	\$ 614.00	3 weeks	9
Line Cord	ASTRO 20B050S-LC	110123-340	Replaced by 110223-340			
	ASTRO 20B075S-LC	110123-341	Astro-20 Brze 3/4" sweat w/ 6 ft. line cord	\$ 333.00	1 week	6.5
	ASTRO 25B050S-LC	110123-342	Replaced by 110223-342			
	ASTRO 25B075S-LC	110123-343	Replaced by 110223-343			
	ASTRO 20BU-LC	110123-344	Astro 20 Brz union w/ 6 ft. line cord	\$ 335.00	1 week	7.5
	ASTRO 25BU-LC	110123-345	Replaced by 110223-345			
	ASTRO 20BF-LC	110123-346	Astro 20 Brz flanged w/ 6 ft. line cord	\$ 333.00	1 week	8.5
	ASTRO 30B-LC	110123-348	Replaced by 110223-348			
	ASTRO 50B-LC	110123-349	Replaced by 110223-349			
	ASTRO 70B-LC	110123-350	Astro 70 Brz flangedr w/ 6 ft. line cord	\$ 498.00	3 weeks	8.5

**ASTRO 2 DOMESTIC HOT WATER RE-CIRCULATION SYSTEMS**

**ASTRO Express 2 System** (for 2 pipe installation)

Model No.	Part No.	Description	List Price	Lead time	Wt. ea. lbs.
Astro Express 2 System	110223-401	Astro 2 SSU w/timer & 6 ft. Line cord, union hardware kit*, Astro Express LF Valve	<b>\$ 580.00</b>	1 week	7.5
Astro Express LF Valve	561100LF-001	Extra valve for long branches off main distribution (optional)	<b>\$ 133.00</b>	1 week	0.5

\* Includes two gaskets, union nuts, 3/4" FPT tailpieces, and one 3/4" MPT tailpiece. Hoses for valve connection not included.

**ASTRO 2 HWR Systems** (for dedicated return - 3 pipe installation)

	Model No.	Part No.	Connection/Controls	List Price	Lead time	Wt. ea. lbs.
<b>Timer Aquastat Line Cord</b>	ASTRO 220SSU050S-TA	110223-140	Astro-2 20SSU Stainless steel 1/2" sweat w/ timer, aquastat & 6 ft. line cord	<b>\$ 503.00</b>	1 week	7
	ASTRO 220SSU075S-TA	110223-141	Astro-2 20SSU Stainless steel 3/4" sweat w/ timer, aquastat & 6 ft. line cord	<b>\$ 506.00</b>	1 week	7
	ASTRO 225BS050S-TA	110223-142	Astro-2 25BS Lead free bronze 1/2" sweat w/ timer, aquastat & 6 ft. line cord	<b>\$ 481.00</b>	1 week	7
	ASTRO 225BS075S-TA	110223-143	Astro-2 25BS Lead free bronze 3/4" sweat w/ timer, aquastat & 6 ft. line cord	<b>\$ 491.00</b>	1 week	7
	ASTRO 220SSU-TA	110223-144	Astro-2 20SSU 1 1/4" NPSM Union w/ timer, aquastat & 6 ft. line cord	<b>\$ 500.00</b>	1 week	7
	ASTRO 225SSU-TA	110223-145	Astro-2 25SSU 1 1/4" NPSM Union w/ timer, aquastat & 6 ft. line cord	<b>\$ 511.00</b>	1 week	7
	ASTRO 230SS-TA	110223-148	Astro-2 30SS circulator w/ timer, aquastat & 6 ft. line cord	<b>\$ 521.00</b>	3 weeks	9
<b>Timer Line Cord</b>	ASTRO 250SS-TA	110223-149	Astro-2 50SS circulator w/ timer, aquastat & 6 ft. line cord	<b>\$ 542.00</b>	3 weeks	9
	ASTRO 220SSU050S-T	110223-240	Astro-2 20SSU Stainless steel 1/2" sweat w/ timer & 6 ft. line cord	<b>\$ 488.00</b>	1 week	7
	ASTRO 220SSU075S-T	110223-241	Astro-2 20SSU Stainless steel 3/4" sweat w/ timer & 6 ft. line cord	<b>\$ 490.00</b>	1 week	7
	ASTRO 225BS050S-T	110223-242	Astro-2 25BS Lead free bronze 1/2" sweat w/ timer & 6 ft. line cord	<b>\$ 466.00</b>	1 week	7
	ASTRO 225BS075S-T	110223-243	Astro-2 25BS Lead free bronze 3/4" sweat w/ timer & 6 ft. line cord	<b>\$ 475.00</b>	1 week	7
	ASTRO 220SSU-T	110223-244	Astro-2 20SSU 1 1/4" NPSM Union w/ timer & 6 ft. line cord	<b>\$ 485.00</b>	1 week	7
	ASTRO 225SSU-T	110223-245	Astro-2 25SSU 1 1/4" NPSM Union w/ timer & 6 ft. line cord	<b>\$ 494.00</b>	1 week	7
<b>Line Cord</b>	ASTRO 230SS-T	110223-248	Astro-2 30SS circulator w/ timer & 6 ft. line cord	<b>\$ 506.00</b>	3 weeks	9
	ASTRO 250SS-T	110223-249	Astro-2 50SS circulator w/ timer & 6 ft. line cord	<b>\$ 527.00</b>	3 weeks	9
	ASTRO 220SSU050S-LC	110223-340	Astro-2 20SSU Stainless steel 1/2" sweat w/ 6 ft. line cord	<b>\$ 370.00</b>	1 week	6.5
	ASTRO 220SSU075S-LC	110223-341	Astro-2 20SSU Stainless steel 3/4" sweat w/ 6 ft. line cord	<b>\$ 372.00</b>	1 week	6.5
	ASTRO 225BS050S-LC	110223-342	Astro-2 25BS Lead free bronze 1/2" sweat w/ 6 ft. line cord	<b>\$ 347.00</b>	1 week	6.5
	ASTRO 225BS075S-LC	110223-343	Astro-2 25BS Lead free bronze 3/4" sweat w/ 6 ft. line cord	<b>\$ 357.00</b>	1 week	6.5
	ASTRO 220SSU-LC	110223-344	Astro-2 20SSU 1 1/4" NPSM Union w/ 6 ft. line cord	<b>\$ 367.00</b>	1 week	7.5
	ASTRO 225SSU-LC	110223-345	Astro-2 25SSU 1 1/4" NPSM Union w/ 6 ft. line cord	<b>\$ 376.00</b>	1 week	7.5
ASTRO 230SS-LC	110223-348	Astro-2 30SS circulator w/ 6 ft. line cord	<b>\$ 390.00</b>	3 weeks	8.5	
ASTRO 250SS-LC	110223-349	Astro-2 50SS circulator w/ 6 ft. line cord	<b>\$ 411.00</b>	3 weeks	8.5	



**ASTRO 2 CIRCULATORS**

**ASTRO 2 3-Speed Circulators:**

**IRON BODY CONSTRUCTION** (Includes Check Valve)

Model No.	Part No.	Connection	List Price	Wt. ea. lbs.
Astro 230CI	110223-305	Flanged	\$ 200.00	8
Astro 230CI-R	110223-315	Flanged Rotated	\$ 200.00	8
Astro 250CI	110223-307	Flanged	\$ 223.00	8
Astro 250CI-R	110223-317	Flanged Rotated	\$ 223.00	8

**LEAD FREE SWEAT CONNECTION\***

Model No.	Part No.	Connection	List Price	Wt. ea. lbs.
Astro 225BS 1/2" SWT	110223-303	Sweat - 1/2"	\$ 312.00	6
Astro 225BS 3/4" SWT	110223-304	Sweat - 3/4"	\$ 322.00	6

**STAINLESS STEEL BODY CONSTRUCTION\*** (Includes Check Valve)

Model No.	Part No.	Connection	List Price	Wt. ea. lbs.
Astro 220SSU w/ 1/2" SWT	110223-301	Sweat - 1/2"	\$ 334.00	6
Astro 220SSU w/ 3/4" SWT	110223-302	Sweat - 3/4"	\$ 336.00	6
Astro 220SSU	110223-309	Union	\$ 331.00	6.5
Astro 225SSU	110223-310	Union	\$ 342.00	6.5
Astro 230SS	110223-306	Flanged	\$ 351.00	8
Astro 250SS	110223-308	Flanged	\$ 370.00	8

**COMPANION FLANGE KITS** (contains two (2) flanges, hardware & gaskets)

**CAST IRON**

Model	Part No.	Size	List Price	Wt. (lbs.)
ASTRO 230/250/CI/CI-R	816013-111	0.75"	\$ 20.00	2
ASTRO 230/250/CI/CI-R	816012-111	1"	\$ 20.00	2
ASTRO 230/250/CI/CI-R	816011-111	1.25"	\$ 20.00	2
ASTRO 230/250/CI/CI-R	816009-111	1.5"	\$ 20.00	3

**BRONZE**

Model	Part No.	Size	List Price	Wt. (lbs.)
ASTRO 230SS/250SS	816013-141	0.75"	\$ 66.00	2
ASTRO 230SS/250SS	816012-141	1"	\$ 66.00	2
ASTRO 230SS/250SS	816011-141	1.25"	\$ 76.00	2
ASTRO 230SS/250SS	816009-141	1.5"	\$ 86.00	3

**LEAD FREE UNION FITTING SETS\*** (contains two (2) half unions & gaskets)

Model	Part No.	Connection	List Price	Wt. (lbs.)
ASTRO 220SSU/225SSU	810120-320	1.25" NPSM x 0.5" Sweat Lead Free	\$ 60.00	2
ASTRO 220SSU/225SSU	810120-322	1.25" NPSM x 0.75" Sweat Lead Free	\$ 60.00	2
ASTRO 220SSU/225SSU	810120-324	1.25" NPSM x 0.75" FNPT Lead Free	\$ 66.00	2

**UNION FITTING SETS** (contains two (2) half unions & gaskets)

Model	Part No.	Connection	List Price	Wt. (lbs.)
ASTRO 220SSU/225SSU	810120-220	1.25" NPSM x 0.5" Sweat	\$ 45.00	2
ASTRO 220SSU/225SSU	810120-222	1.25" NPSM x 0.75" Sweat	\$ 45.00	2
ASTRO 220SSU/225SSU	810120-224	1.25" NPSM x 0.75" FNPT	\$ 51.00	2

\* Complies with Section 116875 of the California Health and Safety Code and Vermont Act 193  
 (Lead content of all wetted surface is 0.25% or less)

## E SERIES CIRCULATORS

### CAST IRON BODY CONSTRUCTION

Model	Part No.		List Price	Wt (lbs)
	120V Motor	240V Motor		
E7	180200-643	180200-671	\$ 389.00	11.5
E8	180200-657	180200-645	\$ 419.00	11.5
E9	180200-659	180200-647	\$ 419.00	11.5
E10	180200-649	180200-661	\$ 428.00	13
E11	180200-651	180200-663	\$ 428.00	13
E12-TE*	180210-641	180210-600	\$ 755.00	17
E12	180210-841	180210-800	\$ 755.00	17
E13	180200-655	180200-667	\$ 532.00	13
E14-TE*	180210-643	180210-602	\$ 783.00	17
E14	180210-843	180210-802	\$ 783.00	17
E15	180210-661	180210-620	\$ 1,028.00	18.9
E16	180200-653	180200-665	\$ 856.00	18.6
E17	180210-663	180210-622	\$ 907.00	18.9
E19	180210-649	180210-608	\$ 874.00	18.7
E21	180210-665	180210-624	\$ 874.00	18.7
E22	180210-667	180210-626	\$ 1,133.00	18.7
E23	180210-651	180210-610	\$ 1,423.00	18.7
E24	180210-653	180210-612	\$ 1,113.00	18.7
E28	180210-655	180210-614	\$ 1,034.00	25.8
E29	180210-657	180210-616	\$ 1,242.00	25.8
E30	180210-645	180210-604	\$ 874.00	23.1
E30 - 3"	180210-671	180210-630	\$ 887.00	25.8
E33	180210-669	180210-628	\$ 932.00	23.1
E33 - 3"	180210-675	180210-634	\$ 945.00	25.8

\* max fluid temp = 150°F (65°C)

### BRONZE BODY CONSTRUCTION

Model	Part No.		List Price	Wt (lbs)
	120V Motor	240V Motor		
E7B	180200-644	180200-672	\$ 617.00	12.8
E8B	180200-658	180200-646	\$ 657.00	12.8
E9B	180200-660	180200-648	\$ 657.00	12.8
E10B	180200-650	180200-662	\$ 672.00	14.8
E11B	180200-652	180200-664	\$ 672.00	14.8
E12B-TE*	180210-642	180210-601	\$ 977.00	18
E12B	180210-842	180210-801	\$ 977.00	18
E13B	180200-656	180200-668	\$ 792.00	14.8
E14B-TE*	180210-644	180210-603	\$ 1,021.00	18
E14B	180210-844	180210-803	\$ 1,021.00	18
E15B	180210-662	180210-621	\$ 1,938.00	20.3
E16B	180200-654	180200-666	\$ 1,497.00	20.7
E17B	180210-664	180210-623	\$ 1,586.00	20.3
E19B	180210-650	180210-609	\$ 1,481.00	20.1
E21B	180210-666	180210-625	\$ 1,516.00	20.1
E22B	180210-668	180210-627	\$ 1,974.00	20.1
E23B	180210-652	180210-611	\$ 2,959.00	20.1
E24B	180210-654	180210-613	\$ 1,974.00	20.1
E28B	180210-656	180210-615	\$ 1,988.00	27.7
E29B	180210-658	180210-617	\$ 2,676.00	27.7
E30B	180210-646	180210-605	\$ 1,651.00	24.7
E30B - 3"	180210-672	180210-631	\$ 1,685.00	27.7
E33B	180210-670	180210-629	\$ 1,729.00	24.7
E33B - 3"	180210-676	180210-635	\$ 1,763.00	27.7

Flange kits*	Flange Kit Model and Part Number											
	Cast Iron						Bronze					
	E7 E14	E8 E15	E9 E17	E12 E23	E10 E21 E22 E24	E11 E22	E13 E23	E16 E33-2"	E30-2" E33-2"	E28 E30-3" E33-3"	E29 E33-3"	E30-3"
Flange (¾")	816013-211				N/A			N/A				N/A
Flange (1")	816012-211				806073-111			N/A				N/A
Flange (1¼")	816011-211				804300-111			N/A				N/A
Flange (1½")	816009-211				804301-111			N/A				N/A
Flange (2")					N/A			806074-111				N/A
Flange (3")**					N/A			N/A				805188-111

\*(contains two (2) flanges, hardware & gaskets)



**E SERIES CIRCULATORS**

Description	Cast Iron			Bronze		
	Part No.	Price	Wt (lbs)	Part No.	Price	Wt (lbs)
Flange kit - (¾")	816013-211	\$ 21.00	2	816013-241	\$ 62.00	2
Flange kit - (1")	816012-211	\$ 20.00	2	816012-241	\$ 62.00	2
Flange kit - (1¼")	816011-211	\$ 20.00	2	816011-241	\$ 72.00	2
Flange kit - (1½")	816009-211	\$ 20.00	3	816009-241	\$ 81.00	3
Flange kit - (1")	806073-111	\$ 36.00	2	806073-141	\$ 105.00	2
Flange kit - (1¼")	804300-111	\$ 36.00	2	804300-141	\$ 105.00	2
Flange kit - (1½")	804301-111	\$ 36.00	3	804301-141	\$ 105.00	3
Flange kit - (2")	806074-111	\$ 102.00	4	806074-141	\$ 412.00	4
Flange kit - (3")	805188-111	\$ 112.00	7	805188-141	\$ 477.00	7

**Cast Iron Engineered Spool Pieces**

(For replacing pumps with larger flange-to-flange dimensions than E Series)

Model	Part No.	Pipe Size	Spool length	Price	Wt (lbs)
ESP-1	180221-011	1-1/4"	3"	\$ 57.00	3
ESP-2	180222-011	1-1/4"	2 1/2"	\$ 57.00	3
ESP-4	180224-011	1 1/2"	3"	\$ 57.00	3
ESP-5	180225-011	1 1/2"	5"	\$ 57.00	3
ESP-6	180226-011	3"	1 1/2"	\$ 111.00	7
ESP-7	180227-011	3"	2 5/8"	\$ 111.00	7
ESP-8	180228-011	3"	3 1/2"	\$ 111.00	7
ESP-9	180229-011	3"	5 1/8"	\$ 111.00	7
ESP-10	180230-011	2"	5"	\$ 83.00	5
ESP-11	180231-011	1 1/2"	2 1/2"	\$ 57.00	3
ESP-12	180232-011	2"	3"	\$ 83.00	5
ESP-13	180233-011	2"	5 1/2"	\$ 83.00	5



## E SERIES CIRCULATORS

### LEAD FREE\* BRONZE BODY CONSTRUCTION

Model	Part No.		List Price	Wt (lbs)
	120V Motor	240V Motor		
E7B	180200LF-644	180200LF-672	\$ 666.00	12.8
E8B	180200LF-658	180200LF-646	\$ 707.00	12.8
E9B	180200LF-660	180200LF-648	\$ 707.00	12.8
E10B	180200LF-650	180200LF-662	\$ 725.00	14.8
E11B	180200LF-652	180200LF-664	\$ 725.00	14.8
E12B-TE**	180210LF-642	180210LF-601	\$ 1,052.00	18
E12B	180210LF-842	180210LF-801	\$ 1,052.00	18
E13B	180200LF-656	180200LF-668	\$ 853.00	14.8
E14B-TE**	180210LF-644	180210LF-603	\$ 1,101.00	18
E14B	180210LF-844	180210LF-803	\$ 1,101.00	18
E15B	180210LF-662	180210LF-621	\$ 2,088.00	20.3
E16B	180200LF-654	180200LF-666	\$ 1,613.00	20.7
E17B	180210LF-664	180210LF-623	\$ 1,708.00	20.3
E19B	180210LF-650	180210LF-609	\$ 1,595.00	20.1
E21B	180210LF-666	180210LF-625	\$ 1,633.00	20.1
E22B	180210LF-668	180210LF-627	\$ 2,127.00	20.1
E23B	180210LF-652	180210LF-611	\$ 3,188.00	20.1
E24B	180210LF-654	180210LF-613	\$ 2,127.00	20.1
E28B	180210LF-656	180210LF-615	\$ 2,143.00	27.7
E29B	180210LF-658	180210LF-617	\$ 2,883.00	27.7
E30B	180210LF-646	180210LF-605	\$ 1,778.00	24.7
E30B - 3"	180210LF-672	180210LF-631	\$ 1,815.00	27.7
E33B	180210LF-670	180210LF-629	\$ 1,863.00	24.7
E33B - 3"	180210LF-676	180210LF-635	\$ 1,900.00	27.7

\* All E Series Lead Free models comply with NSF-61 Section G requirement.

\*\* max fluid temp = 150°F (65°C)

**SERIES S & H - HYDRONIC CIRCULATORS**

SERIES S & H				Construction			
				Bronze Fitted		All Bronze	
Model No.	Motor H.P	Flange Size*	Wt. (lbs)	Item No.	List Price	Item No.	List Price
S-25	1/12	Less Flgs	19	174031-013	\$ 398.00	174031-043	\$ 695.00
S-35	1/6	2"	38	174033-013	\$ 882.00	174033-043	\$ 1,579.00
S-45	1/4	Less Flgs See Note 4	45	174036-113	\$ 1,159.00	174036-143	\$ 2,234.00
S-46	1/3	3"	51	174037-113	\$ 1,679.00	174037-143	\$ 3,162.00
H-32	1/6	Less Flgs	30	174034-013	\$ 711.00	174034-043	\$ 1,241.00
H-41	1/6	1"	34	174035-113	\$ 951.00	174035-143	\$ 1,521.00
S-55-1	1/2 1PH	3"	82	106284-132	\$ 1,695.00	106284-133	\$ 3,133.00
S-55-3	1/2 3PH	3"	74	106284-136	\$ 1,695.00	106284-137	\$ 3,133.00
S-57-1	3/4 1PH	3"	82	106285-132	\$ 2,014.00	106285-133	\$ 3,440.00
S-57-3	3/4 3PH	3"	76	106285-136	\$ 2,014.00	106285-137	\$ 3,440.00
S-69-1	1 1PH	3"	130	116531-132	\$ 2,830.00	116532-133	\$ 5,092.00
S-69-3	1 3PH	3"	125	116535-136	\$ 2,830.00	116536-137	\$ 5,092.00

**Notes:**

1. All circulators: Maximum Working Pressure 125psig
2. Construction: Hydronic systems (225 degF max.) - Bronze Fitted construction. DHW - Use All Bronze Construction
3. Bronze fitted construction includes non-ferrous impeller, impeller nut, and washer. (S69 is supplied with Bronze Impeller)
4. S-45 flanges: **2.5" Iron (#105189-011) \$51.00 each** **2.5" Bronze (#105189-041) \$133.00 each**  
**3" Iron (#105188-011) \$51.00 each** **3" Bronze (#105188-041) \$133.00 each**
5. 1/2hp to 1hp single phase motors are 115/230V, 60 cycle and have built in thermal overload protection.
6. Three phase motors are 208/230/460V, 60 cycle unless otherwise indicated and require separate overload protection.
7. All circulator motors are ODP (Open Drip Proof) enclosure unless shown otherwise

**CUSTOM MODELS**

Model No.	Item No.	List Price
S-25 BF/BI	174031-113	\$ 553.00
S-25 AB/BI	174031-143	\$ 844.00
S-35 BF/BI	174033-113	\$ 1,133.00
S-35 AB/BI	174033-143	\$ 1,882.00
H-32 AB/BI	174034-143	\$ 1,484.00
H-32 BF TEFC 1/4HP-3-60	174034-033	\$ 1,387.00
H-32 AB TEFC 1/4HP-3-60	174034-063	\$ 2,008.00

**SPECIAL FEATURES - SERIES "S" & "H"**

Description (NCP Number Required)	List Adder
230 Volt, Single Phase, 60 Cycle, 1/4 or 1/3 H.P.	\$ 423.00
208-230/460 Volt, 3 Phase, 60 Cycle 1/4 or 1/3 H.P.	\$ 582.00
115/230 volt 1 phase 60 cycle, 1/4hp TEFC motor (H-32,S-35,H-41 only)	\$ 487.00
<b>For S-25 to S-57 and H-32 to H-41:</b>	
1/2" Viton Seal (brass fitted)	\$ 140.00
<b>For S-69 Circulators:</b>	
Alloy Steel Shaft (with S.S. sleeve)	\$ 277.00
Stainless Steel Shaft ( with S.S. shaft sleeve)	\$ 471.00
3/4" Viton Seal ( brass fitted)	\$ 181.00



---

## SERIES S & H - HYDRONIC CIRCULATORS

---

\* Flanges- 10 per Pack

Model	Flange Size	Cast Iron	List / Pack	Bronze	List / Pack	Wt. (lbs.)
S-25	0.75"	110140-026	\$ 137.00	110140-027	\$ 424.00	5
S-25	1"	110140-024	\$ 137.00	110140-025	\$ 424.00	5
S-25	1.25"	110140-022	\$ 137.00	110140-023	\$ 424.00	5
S-25	1.5"	110140-020	\$ 137.00	110140-021	\$ 424.00	8
H-32	1"	110140-032	\$ 175.00	110140-033	\$ 555.00	10
H-32	1.25"	110140-028	\$ 175.00	110140-029	\$ 620.00	10
H-32	1.5"	110140-030	\$ 175.00	110140-031	\$ 620.00	12

### Point of Purchase Displays for S&H Replacement Parts

List Price - Normal multiplier applies

Part #	Display description	Price
110116-034	Floor display only	\$ 1,086.00
110116-035	Floor display w/ parts included	\$ 1,213.00
110116-029	Wall display only	\$ 708.00
110116-030	Wall display w/ parts included	\$ 552.00

**SERIES S & H - HYDRONIC CIRCULATORS**

SERIES S & H				Construction	
				Lead Free* Bronze	
Model No.	Motor H.P	Flange Size*	Wt. (lbs)	Item No.	List Price
<b>S-25</b>	1/12	<b>Less Flgs</b>	19	174031LF-043	\$ <b>742</b>
<b>S-35</b>	1/6	2"	38	174033LF-043	\$ <b>1,686</b>
<b>S-45</b>	1/4	<b>Less Flgs</b> See Note 4	45	174036LF-143	\$ <b>2,384</b>
<b>S-46</b>	1/3	3"	51	174037LF-143	\$ <b>3,375</b>
<b>H-32</b>	1/6	<b>Less Flgs</b>	30	174034LF-043	\$ <b>1,324</b>
<b>H-41</b>	1/6	1"	34	174035LF-143	\$ <b>1,624</b>
<b>S-55-1</b>	1/2 1PH	3"	82	106284LF-133	\$ <b>3,344</b>
<b>S-55-3</b>	1/2 3PH	3"	74	106284LF-137	\$ <b>3,344</b>
<b>S-57-1</b>	3/4 1PH	3"	82	106285LF-133	\$ <b>3,672</b>
<b>S-57-3</b>	3/4 3PH	3"	76	106285LF-137	\$ <b>3,672</b>
<b>S-69-1</b>	1 1PH	3"	130	116532LF-133	\$ <b>5,994</b>
<b>S-69-3</b>	1 3PH	3"	125	116536LF-137	\$ <b>5,994</b>

**Notes:**

1. All circulators: Maximum Working Pressure 125psig
2. Construction: Hydronic systems (225 degF max.) - Bronze Fitted construction. DHW - Use All Bronze Construction
3. Bronze fitted construction includes non-ferrous impeller, impeller nut, and washer. (S69 is supplied with Bronze Impeller)
4. 1/2hp to 1hp single phase motors are 115/230V, 60 cycle and have built in thermal overload protection.
5. Three phase motors are 208/230/460V, 60 cycle unless otherwise indicated and require separate overload protection.
6. All circulator motors are ODP (Open Drip Proof) enclosure unless shown otherwise

\* All S & H Series Lead Free models comply with NSF-61 Section G requirement.



**H-51 to H-68 - 1050 and 1060**

**STOCK SIZES H-51 to H-68 Bronze Fitted Construction**

Model No.	Motor H.P.	Flange Size	Wt. (lbs)	Single Phase		Three Phase	
				Item No.	List Price	Item No.	List Price
H-51*	1/4	1"	48	116431-132	\$ 1,120.00	110119-100	\$ 1,201.00
H-52*	1/3	1.25"	48	116435-132	\$ 1,215.00	110119-102	\$ 1,251.00
H-53*	1/2	1.5"	58	116439-132	\$ 1,411.00	116443-136	\$ 1,349.00
H-54*	3/4	2"	68	116451-132	\$ 1,514.00	116455-136	\$ 1,429.00
H-63	1/2	1.5"	86	116463-132	\$ 1,737.00	116467-136	\$ 1,704.00
H-64	3/4	1.5"	89	116475-132	\$ 1,984.00	116479-136	\$ 1,869.00
H-65	1	1.5"	92	116487-132	\$ 2,338.00	116491-136	\$ 2,142.00
H-66	3/4	2"	110	116499-132	\$ 2,454.00	116503-136	\$ 2,142.00
H-67	1	2"	115	116511-132	\$ 2,527.00	116515-136	\$ 2,322.00
H-68	1 1/2	2"	120	Refer to 2D 1060		116523-136	\$ 2,454.00

\* Non Ferrous Impeller

**STOCK SIZES H-51 to H-68 - All Bronze Construction**

Model No.	Motor H.P.	Flange Size	Wt. (lbs)	Single Phase		Three Phase	
				Item No.	List Price	Item No.	List Price
H-51*	1/4	1"	48	116432-133	\$ 2,200.00	110119-101	\$ 2,536.00
H-52*	1/3	1.25"	48	116436-133	\$ 2,342.00	110119-103	\$ 2,438.00
H-53*	1/2	1.5"	58	116440-133	\$ 2,570.00	116444-137	\$ 2,526.00
H-54*	3/4	2"	68	116452-133	\$ 2,776.00	116456-137	\$ 2,669.00
H-63	1/2	1.5"	86	116464-133	\$ 3,605.00	116468-137	\$ 3,567.00
H-64	3/4	1.5"	89	116476-133	\$ 3,821.00	116480-137	\$ 3,757.00
H-65	1	1.5"	92	116488-133	\$ 4,211.00	116492-137	\$ 4,058.00
H-66	3/4	2"	110	116500-133	\$ 4,209.00	116504-137	\$ 4,256.00
H-67	1	2"	115	116512-133	\$ 4,633.00	116516-137	\$ 4,406.00
H-68	1 1/2	2"	120	Refer to 2D 1060		116524-137	\$ 4,633.00

Notes:

- Prices shown are for pumps complete with 60 cycle, 1750 RPM dripproof motors, companion flanges & construction as listed.
- Three phase motors are dual rate 60/50 cycle.
- Three phase motors are 208/230/460 or 575 volt, 60 cycle or 190/380/415 volt, 50 cycle. Specify on purchase order
- Single Phase motors - 1/4 HP and 1/3HP are 115 volt, 60 cycle. All other motors are 115/230 volt, 60 cycle.
- For special pump and motor construction or motor electrics other than listed above, consult the factory (NCP # required)
- For units 1 HP or greater, when ever 3 phase power is available, the use of single phase motors is not recommended.
- For All Bronze construction, see page 5. For All Iron construction, consult the factory



**H-51 to H-68 - 1050 and 1060**

**CUSTOM BUILT - SERIES 1050**

Model No.	Motor H.P.	Bronze Fitted Construction			All Bronze Construction			Wt. (lbs)
		Single Phase		Three Phase	Single Phase		Three Phase	
		Resilient Mount	Rigid Mount	208/230/460 Rigid Mount	Resilient Mount	Rigid Mount	208/230/460 Rigid Mount	
1B*	1/4	\$ 1,192.00	X	\$ 1,257.00	\$ 2,177.00	X	\$ 2,210.00	48
	1/3	\$ 1,341.00	X	\$ 1,358.00	\$ 2,339.00	X	\$ 2,377.00	48
1-1/4B*	1/4	\$ 1,236.00	X	\$ 1,331.00	\$ 2,373.00	X	\$ 2,486.00	48
	1/3	\$ 1,374.00	X	\$ 1,393.00	\$ 2,523.00	X	\$ 2,559.00	48
	1/2	\$ 1,551.00	X	\$ 1,451.00	\$ 2,712.00	X	\$ 2,622.00	58
1-1/2B*	1/4	\$ 1,321.00	X	\$ 1,336.00	\$ 2,540.00	X	\$ 2,565.00	48
	1/3	\$ 1,374.00	X	\$ 1,424.00	\$ 2,597.00	X	\$ 2,677.00	48
	1/2	\$ 1,551.00	X	\$ 1,471.00	\$ 2,791.00	X	\$ 2,718.00	58
	3/4	\$ 1,664.00	X	\$ 1,565.00	\$ 2,923.00	X	\$ 2,828.00	75
2B	1/3	\$ 1,383.00	X	\$ 1,438.00	\$ 2,672.00	X	\$ 2,744.00	55
	1/2	\$ 1,551.00	X	\$ 1,451.00	\$ 2,852.00	X	\$ 2,753.00	72
	3/4	\$ 1,666.00	X	\$ 1,566.00	\$ 2,977.00	X	\$ 2,884.00	75
	1	\$ 2,162.00	X	\$ 1,935.00	\$ 3,523.00	X	\$ 3,291.00	80

**CUSTOM BUILT - SERIES 1060**

Model No.	Motor H.P.	Bronze Fitted Construction			All Bronze Construction			Wt. (lbs)
		Single Phase		Three Phase	Single Phase		Three Phase	
		Resilient Mount	Rigid Mount	208/230/460 Rigid Mount	Resilient Mount	Rigid Mount	208/230/460 Rigid Mount	
1-1/2D	1/2	\$ 1,551.00	X	\$ 1,471.00	\$ 2,791.00	X	\$ 2,718.00	86
	3/4	\$ 1,664.00	X	\$ 1,565.00	\$ 2,923.00	X	\$ 2,828.00	90
	1	\$ 2,328.00	X	\$ 2,285.00	\$ 4,442.00	X	\$ 4,274.00	92
	1 1/2	X	\$ 3,006.00	\$ 2,462.00	X	\$ 5,046.00	\$ 4,467.00	115
2D	1/2	\$ 1,551.00	X	\$ 1,451.00	\$ 2,852.00	X	\$ 2,753.00	90
	3/4	\$ 1,666.00	X	\$ 1,566.00	\$ 2,977.00	X	\$ 2,884.00	96
	1	\$ 2,162.00	X	\$ 1,935.00	\$ 3,523.00	X	\$ 3,291.00	100
	1.5	X	\$ 3,051.00	\$ 2,649.00	X	\$ 5,449.00	\$ 4,932.00	120
	2	X	X	\$ 2,782.00	X	X	\$ 5,081.00	125
3D	1	X	\$ 3,504.00	\$ 3,130.00	X	\$ 6,980.00	\$ 6,083.00	135
	1 1/2	X	\$ 3,051.00	\$ 3,309.00	X	\$ 5,449.00	\$ 6,271.00	138
	2	X	X	\$ 3,467.00	X	X	\$ 6,439.00	143
	3	X	X	\$ 3,919.00	X	X	\$ 6,892.00	150

\*1/4hp resilient mount single phase available 115V only

**LIST ADDERS - SPECIAL FEATURES**

Special Features	For 1050	For 1060
3/4" viton seal ( brass fitted )	n/a	\$ 194.00

High Efficiency Motors - 84%		
1750 rpm/ 60 Hz/ 3 Phase - 208-230/460V		
Power, h.p	Motor Type	List Adder
1	ODP	\$ 535.00
1.5	ODP	\$ 530.00
2	ODP	\$ 587.00
3	TEFC	\$ 896.00

For TEFC Motors	
1750 rpm/ 60 Hz/ 3 Phase - 208-230/460V	
Power, h.p	List Adder
1/2	\$ 355.00
3/4	\$ 405.00
1	\$ 455.00
1 1/2	\$ 506.00
2	\$ 512.00
3	\$ 558.00



**H-51 to H-68 - 1050 and 1060**

**STOCK SIZES H-51 to H-68 - LEAD FREE\* Bronze Construction**

Model No.	Motor H.P.	Flange Size	Wt. (lbs)	Single Phase		Three Phase	
				Item No.	List Price	Item No.	List Price
H-51*	1/4	1"	48	116432LF-133	\$ 2,349.00	110119LF-101	\$ 2,707.00
H-52*	1/3	1.25"	48	116436LF-133	\$ 2,499.00	110119LF-103	\$ 2,603.00
H-53*	1/2	1.5"	58	116440LF-133	\$ 2,743.00	116444LF-137	\$ 2,696.00
H-54*	3/4	2"	68	116452LF-133	\$ 2,962.00	116456LF-137	\$ 2,848.00
H-63	1/2	1.5"	86	116464LF-133	\$ 3,848.00	116468LF-137	\$ 3,807.00
H-64	3/4	1.5"	89	116476LF-133	\$ 4,079.00	116480LF-137	\$ 4,010.00
H-65	1	1.5"	92	116488LF-133	\$ 4,494.00	116492LF-137	\$ 4,331.00
H-66	3/4	2"	110	116500LF-133	\$ 4,492.00	116504LF-137	\$ 4,543.00
H-67	1	2"	115	116512LF-133	\$ 4,945.00	116516LF-137	\$ 4,702.00
H-68	1 1/2	2"	120	Refer to 2D 1060		116524LF-137	\$ 4,945.00

Notes:

- Prices shown are for pumps complete with 60 cycle, 1750 RPM dripproof motors, companion flanges & construction as listed.
- Three phase motors are dual rate 60/50 cycle.
- Three phase motors are 208/230/460 or 575 volt, 60 cycle or 190/380/415 volt, 50 cycle. Specify on purchase order
- Single Phase motors - 1/4 HP and 1/3HP are 115 volt, 60 cycle. All other motors are 115/230 volt, 60 cycle.
- For special pump and motor construction or motor electrics other than listed above, consult the factory (NCP # required)
- For units 1 HP or greater, when ever 3 phase power is available, the use of single phase motors is not recommended.

\* H51 to H-68 Lead Free models comply with NSF-61 Section G requirement.

**GOLD SERIES - PUMP LESS VOLUTE KITS**

**IN-LINE CIRCULATORS**

Model No.	Item Number	Impeller - in (mm)	Motor H.P.	Voltage	Phase	Weight - lbs	List Price
S-25 LV	110116-200	2-3/4 (70)	1/12	115	single	13	\$ 372.00
H-32 LV	110116-201	3-3/8 (86)	1/6	115	single	18	\$ 676.00
H-41 LV	110116-202	4-1/4 (108)	1/6	115	single	19	\$ 840.00
S-45 LV	110116-203	4-1/4 (108)	1/4	115	single	20	\$ 1,081.00
S-46 LV	110116-204	4-1/4 (108)	1/3	115	single	20	\$ 1,482.00
H-51 LV	110116-300	5-1/4 (135)	1/4	115	single	29	\$ 990.00
H-52 LV	110116-301	5-1/4 (135)	1/6	115	single	29	\$ 1,074.00
H-53 LV	110116-302	5-1/4 (135)	1/2	115/230	single	36	\$ 1,246.00
H-53-3 LV	110116-303	5-1/4 (135)	1/2	208-230/460	three	30	\$ 1,191.00
H-54 LV	110116-304	5-1/4 (135)	3/4	115/230	single	40	\$ 1,779.00
H-54-3 LV	110116-305	5-1/4 (135)	3/4	208-230/460	three	34	\$ 1,779.00
S-55 LV	110116-306	5-1/4 (135)	1/2	115/230	single	36	\$ 1,496.00
S-55-3 LV	110116-307	5-1/4 (135)	1/2	208-230/460	three	30	\$ 1,496.00

**RAYPAK TIP BOILER HEADER PUMPS**

Model No.	Item Number	Impeller - in (mm)	Motor H.P.	Voltage	Phase	Weight - lbs	List Price
Raypak 1	110108-675	4-3/8 (110)	1/3	115	single	28	\$ 968.00
Raypak 2	110108-677	4-1/2 (113)	1/2	115/208-230	single	38	\$ 1,088.00
Raypak 3	110108-717	4-1/2 (113)	3/4	115/208-231	single	41	\$ 1,121.00
Raypak 4	110108-680	none	1/2	115/208-232	single	38	\$ 924.00

**Notes:**

1. Maximum Working Pressure = 125 psi (862 kPa)
2. Maximum Liquid Temperature = 225F (107C)
3. Construction: SS face plate, Noryl Impeller, Gold painted (suits both boiler and potable water applications)
4. Mechanical Seal: carbon / ceramic, SS trim, viton secondary seal
5. Motor: ODP (open drip proof), 60 Hz, 1800 rpm
6. Supplied less volute, for installed circulator replacement only.
7. See colour brochure for cross reference to all applicable models.

**RAYPAK TIP BOILER PARTS**

Part No.	Description	List Price
816706-023	1/2" Viton Seal	\$ 49.00
106158-000	Body Gasket	\$ 3.00
807436-000	Coupler 1/2 x 1/2" (1/3hp motor)	\$ 57.00
806137-000	Coupler 1/2 x 5/8" (1/2hp motor)	\$ 71.00
816141-002	Resilient Mount Motor - 1/3hp/1750/60/1/115 - 2B1050 only	\$ 859.00
811757-001	Resilient Mount Motor - 1/2hp/1750/60/1/115/208/230 - 2B1050 only	\$ 772.00
816032-003	Universal SBA with Viton Seal - 2B1050 only	\$ 432.00
814910-001	Stub Shaft (1.5 B 4260 only)	\$ 170.00
816304-317	**Noryl Impeller (impeller diameter to be specified at time of order)	\$ 242.00
816304-047	Bronze Impeller (impeller diameter to be specified at time of order)	\$ 356.00

\*\* Noryl Impeller replaces the 828286-045 Bronze Impeller

**REPLACEMENT SEAL BEARING ASSEMBLIES WITH VITON SEAL**

Part No.	Description	Impeller used		List Price
		Part No.	Trimmed to:	
110108-393	5 Series SBA with 4.25" fabricated bronze impeller & coupler	816304-047	4.25"	\$ 634.00
110108-394	5 Series SBA with 4.5" noryl impeller & coupler	816304-317	4.5"	\$ 546.00
816999-097	Shaft & bearing module with Viton Seal kit	N/A	N/A	\$ 227.00

See GOLD PLV price list for complete Raypak Tip Boiler Header Pumps

**HYDRONICS SPECIALTIES**

**TANK FITTINGS**

Model	Item No.	List Price	Wt. (lbs)
TMA-24	213991-307	\$ 88.00	3
TMAL	216654-301	\$ 340.00	7

Note: TMA-9 to TMA-20 models have been replaced by TMA-24 model. TMA-24 is designed to be cut to size.

**AIR CHARGERS AND TANK DRAIN**

Model	Item No.	List Price	Wt. (lbs)
TDV-2	217110-300	\$ 161.00	2
TDV-2-18	217111-300	\$ 171.00	3

**AUTOMATIC AIR VENTS**

12 units/box

Model	Item No.	List Price	Wt. (lbs)
AVA - 013	272005-300	\$ 18.00	0.2
AVA - 025	272005-301	\$ 21.00	0.2
AVA - 038	272005-302	\$ 27.00	0.2
AVA - 050*	272005-303	\$ 34.00	0.2
AVA - 075**	272005-308	\$ 48.00	0.35
AVV - 038	272005-305	\$ 42.00	0.35
AVV - 050*	272005-306	\$ 31.00	0.35
AVV - 075**	272005-307	\$ 37.00	0.6

\*with service check valve \*\* 1/2" FPT and 3/4" MPT adapter

**DIAPHRAGM EXPANSION TANKS (Residential)**

Model	Item No.	List Price	Wt. (lbs)
15	572018-001	\$ 114.00	5
30	572018-002	\$ 138.00	9
60	572018-003	\$ 273.00	14
90	572018-004	\$ 374.00	23
SX-30V	572018-005	\$ 405.00	25
SX-40V	572018-006	\$ 431.00	32
SX-60V	572018-007	\$ 599.00	45
SX-90V	572018-008	\$ 1,099.00	70
SX-110V	572018-009	\$ 1,294.00	92
SX-160V	572018-010	\$ 1,373.00	113

**COMBINATION VALVE**

Model	Item No.	List Price	Wt. (lbs)
C-11-U *	216945-300	\$ 234.00	3

**STANDARD RELIEF VALVE**

RL-11	216942-300	\$ 107.00	1.25
-------	------------	-----------	------

**PRESSURE REDUCING VALVES**

RD-11-U*	216944-300	\$ 121.00	2
RD-40	207937-343	\$ 160.00	3.25
RD-50	207937-300	\$ 160.00	3.25
HRD-70	207936-300	\$ 160.00	3.25

\* with fast fill feature

**HYDRONICS SPECIALTIES**

**MAID-O-MIST AIR VENTS (while quantities last)**

Model	Item No.	List Price	Wt. (lbs)
71	272005-002	\$ 70.00	0.3
75	272005-003	\$ 87.00	0.5
72	272005-005	\$ 18.00	1
7A	272005-006	\$ 13.00	1
67	272005-004	\$ 30.00	0.5

**FLO-CONTROL VALVES**

Model	Item No.	List Price	Wt. (lbs)
<b>Straight angle pattern</b>			
FV-3/4-CI	216145-311	\$ 122.00	3
FV-1-CI	216146-311	\$ 122.00	3
FV-1-1/4-CI	216147-311	\$ 129.00	4
FV-1-1/2-CI	216148-311	\$ 177.00	8
FV-2-CI	216149-311	\$ 217.00	12
FV-2-1/2-CI	216391-311	\$ 470.00	22
FV-3	216392-311	\$ 539.00	24
<b>Straight pattern</b>			
FV-1-BRZ	218828-342	\$ 234.00	2.5

**ONE PIPE TEES**

12 units/box

Model	Item No.	List Price	Wt. (lbs)
CU-T 3/4X1/2	212947-142	\$ 32.00	4
CU-T 1X1/2	212948-142	\$ 32.00	6
CU-T 1X3/4	212949-142	\$ 32.00	6
CU-T 1-1/4X1/2	212950-142	\$ 33.00	8
CU-T 1-1/4X3/4	212951-142	\$ 33.00	8

**FLEX FLANGE (Isolation Flange kit with Check Valve)**

Model	Item No.	List Price	Wt. (lbs)
FF-050T	110124-200	\$ 62.00	1.62
FF-075T	110124-201	\$ 65.00	1.62
FF-100T	110124-202	\$ 79.00	2
FF-125T	110124-203	\$ 98.00	2.75
FF-150T	110124-204	\$ 129.00	3.75
FF-050S	110124-250	\$ 62.00	1.62
FF-075S	110124-251	\$ 65.00	1.62
FF-100S	110124-252	\$ 79.00	2
FF-125S	110124-253	\$ 98.00	2.75
FF-150S	110124-254	\$ 129.00	3.75

Note: Price includes 2 flanges, hardware & adapter gaskets

**Aquastat**

Model	Item No.	List Price	Wt. (lbs)
1/2"	110123-120	\$ 36.00	0.7
3/4"	110123-121	\$ 36.00	0.7

**24 hour Mechanical Timer**

(Domestic Hot Water Recirculation)

Model	Item No.	List Price	Wt. (lbs)
Analogue timer	810123-130	\$ 96.00	0.7

**CIRCULATOR ISOLATION FLANGES**

Model	Item No.	List Price	Wt. (lbs)
CIF-050T	110124-100	\$ 59.00	1.12
CIF-075T	110124-000	\$ 62.00	1.12
CIF-100T	110124-001	\$ 75.00	1.5
CIF-125T	110124-002	\$ 94.00	2.25
CIF-150T	110124-003	\$ 121.00	3.25
CIF-050S	110124-150	\$ 59.00	1.12
CIF-075S	110124-050	\$ 62.00	1.12
CIF-100S	110124-051	\$ 75.00	1.5
CIF-125S	110124-052	\$ 94.00	2.25
CIF-150S	110124-053	\$ 121.00	3.25

Note: Price includes 2 flanges and hardware (no gaskets)

**AIR REMOVAL TRAPS**

Model	Item No.	List Price	Wt. (lbs)
ART-443-1	572017-001	\$ 23.00	6
ART-444-1-1/4	572017-002	\$ 25.00	6
ART-445-1-1/2	572017-003	\$ 47.00	9
ART-446-2	572017-004	\$ 49.00	10
ART-447-2-1/2	572017-005	\$ 114.00	19
ART-448-3	572017-006	\$ 119.00	20



**SERIES 4270 MOTOR MOUNTED END SUCTION PUMPS WITH MOTORS**

**Standard Construction**

Pump Size	RPM	Motor H.P.	Cast Iron Construction		Bronze Construction		Wt. (lbs.)
			Single Phase	Three Phase	Single Phase	Three Phase	
1.25 x 1 x 5	1800	1/3	\$ 796.00	N/A	\$ 1,131.00	N/A	36
		3600	1/2	\$ 727.00	\$ 766.00	\$ 1,028.00	\$ 1,060.00
		3/4	\$ 836.00	\$ 1,020.00	\$ 1,130.00	\$ 1,314.00	38
		1	\$ 855.00	\$ 864.00	\$ 1,154.00	\$ 1,158.00	40
		1 1/2	\$ 1,039.00	\$ 990.00	\$ 1,343.00	\$ 1,303.00	49
		2	\$ 1,195.00	\$ 1,104.00	\$ 1,492.00	\$ 1,450.00	51
		3	\$ 1,222.00	\$ 1,163.00	\$ 1,637.00	\$ 1,597.00	55
1.5 x 1.25 x 5.5	1800	1/3	\$ 803.00	N/A	\$ 1,252.00	N/A	36
		1/2	\$ 899.00	N/A	\$ 1,254.00	N/A	40
	3600	3/4	\$ 842.00	\$ 1,026.00	\$ 1,178.00	\$ 1,165.00	40
		1	\$ 862.00	\$ 870.00	\$ 1,273.00	\$ 1,247.00	42
		1 1/2	\$ 1,047.00	\$ 1,048.00	\$ 1,464.00	\$ 1,422.00	51
		2	\$ 1,202.00	\$ 1,110.00	\$ 1,608.00	\$ 1,571.00	53
		3	\$ 1,229.00	\$ 1,189.00	\$ 1,755.00	\$ 1,720.00	57
5	\$ 1,675.00	\$ 1,615.00	\$ 2,083.00	\$ 2,028.00	62		
2 x 1.5 x 5.5	1800	1/3	\$ 811.00	N/A	\$ 1,321.00	N/A	36
		1/2	\$ 907.00	N/A	\$ 1,321.00	N/A	40
	3600	3/4	\$ 848.00	\$ 1,032.00	\$ 1,253.00	\$ 1,240.00	42
		1	\$ 868.00	\$ 877.00	\$ 1,349.00	\$ 1,320.00	44
		1 1/2	\$ 1,054.00	\$ 1,002.00	\$ 1,541.00	\$ 1,495.00	53
		2	\$ 1,210.00	\$ 1,116.00	\$ 1,688.00	\$ 1,644.00	56
		3	\$ 1,236.00	\$ 1,213.00	\$ 1,833.00	\$ 1,791.00	60
5	\$ 1,681.00	\$ 1,621.00	\$ 2,161.00	\$ 2,106.00	65		

**Standard Construction**

- Pump Construction:** Cast Iron - Volute, ULTEM - Impeller, Type21 - Seal
- Motor Construction:**
  - ODP type and 50J frame with 416 Stainless Steel Shaft
  - Standard efficiency and 60 Hz. With power configuration as:
    - Single phase: 115 / 230 V (2 & 3 h.p motors are only available with 230V)
    - Three phase: 208-230/460V & 575V
- Maximum Working Pressure:** 150 psi
- Maximum Temperature:** 275 deg F

**LIST ADDERS**

Bronze impeller	\$ 92.00
-----------------	----------

**For TEFC Motors**

Motor h.p with 3 phase / 3600 rpm/ 60 Hz	List Price
1/2	\$ 122.00
3/4	\$ 126.00
1	\$ 78.00
1 1/2	\$ 70.00
2	\$ 87.00
3	\$ 104.00

*Seal Flush Line:	\$ 61.00
-------------------	----------

\*Required when pump is mounted vertically



**4270 STANDARD PUMP PROGRAM**

STOCK MODEL	4270 Model	Impeller Size	HP-RPM-PH	Wt. (lbs)	PEI (ULTEM) Impeller		Bronze Impeller	
					Part Number	List Price	Part Number	List Price
702S	1.25 X 1	3.5"	3/4-3500-1	36	410133-201	\$ 724.00	410133-241	\$ 811.00
702T	1.25 X 1	3.5"	3/4-3500-3	36	410133-301	\$ 763.00	410133-341	\$ 848.00
704S	1.25 X 1	4"	1-3500-1	40	410133-203	\$ 853.00	410133-243	\$ 938.00
704T	1.25 X 1	4"	1-3500-3	40	410133-303	\$ 862.00	410133-343	\$ 948.00
705S	1.25 X 1	4.5"	1.5-3500-1	49	410133-204	\$ 1,037.00	410133-244	\$ 1,124.00
705T	1.25 X 1	4.5"	1.5-3500-3	49	410133-304	\$ 984.00	410133-344	\$ 1,072.00
706S	1.5 X 1.25	4.5"	2-3500-1	49	410134-200	\$ 1,200.00	410134-240	\$ 1,278.00
706T	1.5 X 1.25	4.5"	2-3500-3	49	410134-300	\$ 1,124.00	410134-340	\$ 1,233.00
707S	2 X 1.5	4"	1.5-3500-1	53	410135-200	\$ 1,051.00	410135-240	\$ 1,149.00
707T	2 X 1.5	4"	1.5-3500-3	53	410135-300	\$ 1,009.00	410135-340	\$ 1,111.00
709T	2 X 1.5	4.375"	2-3500-3	56	410135-302	\$ 1,153.00	410135-342	\$ 1,265.00
7010T	2 X 1.5	5"	3-3500-3	60	410135-303	\$ 1,295.00	410135-343	\$ 1,416.00

Prices shown above cover units supplied as follows:

- Suffix "S" indicates Single phase 115/230 volt motor
- Suffix "T" indicates Three phase 208-230/460 volt motor

**Standard Construction**

1. **Pump Construction:** Cast Iron - Volute, ULTEM - Impeller, Type21 - Seal
2. **Motor Construction:**
  - A. ODP type and 50J frame with 416 Stainless Steel Shaft
  - B. Standard efficiency and 60 Hz. With power configuration as:
    - i) Single phase: 115 / 230 V (2 & 3 h.p motors are only available with 230V)
    - ii) Three phase: 208-230/460V
3. **Maximum Working Pressure:** 150 psi
4. **Maximum Teperature:** 275 deg F

**4270 Kit Pricing (Cast Iron Volute Only)**

4270 Model	Impeller Size	PEI (ULTEM) Impeller		Bronze Impeller	
		Module No.	List	Module No.	List
1 1/4" x 1"	5"	410133-900	\$ 344.00	410133-940	\$ 424.00
1 1/2" x 1 1/4"	5"	410134-900	\$ 341.00	410134-940	\$ 423.00
2" x 1 1/2"	5.5"	410135-900	\$ 335.00	410135-940	\$ 408.00