

ASTRO 2 CIRCULATORS

ASTRO 2 3-Speed Circulators (except Astro 286):

IRON BODY CONSTRUCTION (Includes Check Valve)

Model No.	Part No.	Connection	List Price	Wt.ea.lbs.
Astro 210CI	110223-326	Flanged	\$ 367	11
Astro 230CI	110223-305	Flanged	\$ 211	9
Astro 230CI-R	110223-315	Flanged Rotated	\$ 211	9
Astro 250CI	110223-307	Flanged	\$ 236	9
Astro 250CI-R	110223-317	Flanged Rotated	\$ 236	9
Astro 280CI	110223-320	Flanged	\$ 571	11
Astro 280CI 230V	110223-322	Flanged	\$ 571	11
Astro 286CI	110223-324	Flanged	\$ 590	11
Astro 290CI	110223-328	Flanged	\$ 590	14

LEAD FREE SWEAT CONNECTION*

Model No.	Part No.	Connection	List Price	Wt.ea.lbs.
Astro 225BS 1/2" SWT	110223-303	Sweat - 1/2"	OBS	7
Astro 225BS 3/4" SWT	110223-304	Sweat - 3/4"	OBS	7

STAINLESS STEEL BODY CONSTRUCTION* (Includes Check Valve)

Model No.	Part No.	Connection	List Price	Wt.ea.lbs.
Astro 210SS	110223-327	Flanged	\$ 695	11
Astro 220SSU w/ 1/2" SWT	110223-301	Sweat - 1/2"	\$ 430	7
Astro 220SSU w/ 3/4" SWT	110223-302	Sweat - 3/4"	\$ 432	7
Astro 220SSU	110223-309	Union	\$ 426	7
Astro 225SSU	110223-310	Union	\$ 431	7
Astro 230SS	110223-306	Flanged	\$ 414	9
Astro 250SS	110223-308	Flanged	\$ 388	8
Astro 280SS	110223-321	Flanged	\$ 749	11
Astro 280SS 230V	110223-323	Flanged	\$ 711	11
Astro 286SS	110223-325	Flanged	\$ 680	11
Astro 290SS	110223-329	Flanged	\$ 707	11

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

CAST IRON

Model	Part No.	Size	List Price	Wt. (lbs.)
ASTRO 210/230/250/280/286CI/CI-R	816013-111	0.75"	\$ 30	2
ASTRO 210/230/250/280/286CI/CI-R	816012-111	1"	\$ 30	2
ASTRO 210/230/250/280/286CI/CI-R	816011-111	1.25"	\$ 30	2
ASTRO 210/230/250/280/286CI/CI-R	816009-111	1.5"	\$ 30	3
ASTRO 290CI	806073-111	1"	\$ 53	2
ASTRO 290CI	804300-111	1.25"	\$ 53	2
ASTRO 290CI	804301-111	1.5"	\$ 53	3

ASTRO 2 CIRCULATORS

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

LEAD FREE BRONZE*

Model	Part No.	Size	List Price	Wt. (lbs.)
ASTRO 210/230/250/280/286SS	816013-841	0.75"	\$ 96	2
ASTRO 210/230/250/280/286SS	816012-841	1"	\$ 96	2
ASTRO 210/230/250/280/286SS	816011-841	1.25"	\$ 109	2
ASTRO 210/230/250/280/286SS	816009-841	1.5"	\$ 123	3
ASTRO 290SS	806073-841	1"	\$ 152	2
ASTRO 290SS	804300-841	1.25"	\$ 152	2
ASTRO 290SS	804301-841	1.5"	\$ 152	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	\$ 87	2
ASTRO 220SSU/225SSU	810120-322	1.25" NPSM x 0.75" Sweat Lead Free	\$ 87	2
ASTRO 220SSU/225SSU	810120-324	1.25" NPSM x 0.75" FNPT Lead Free	\$ 94	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	\$ 64	2
ASTRO 220SSU/225SSU	810120-222	1.25" NPSM x 0.75" Sweat	\$ 64	2
ASTRO 220SSU/225SSU	810120-224	1.25" NPSM x 0.75" FNPT	\$ 73	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)

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	110223B-401	Astro 2 SSU w/timer & 6 ft. Line cord, union hardware kit*, Astro Express LF Valve	\$ 745	1 week	10
Astro Express LF Valve	561100LF-001	Extra valve for long branches off main distribution (optional)	\$ 183	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.
Timer Aquastat Line Cord	ASTRO 220SSU050S-TA	110223B-140	Astro 220SSU Stainless steel 1/2" sweat w/ timer, aquastat & 6 ft. line corc	\$ 647	1 week	7
	ASTRO 220SSU075S-TA	110223B-141	Astro 220SSU Stainless steel 3/4" sweat w/ timer, aquastat & 6 ft. line corc	\$ 652	1 week	7
	ASTRO 225BS050S-TA	110223B-142	Astro 225BS Lead free bronze 1/2" sweat w/ timer, aquastat & 6 ft. line corc	\$ 617	1 week	7
	ASTRO 225BS075S-TA	110223B-143	Astro 225BS Lead free bronze 3/4" sweat w/ timer, aquastat & 6 ft. line corc	\$ 630	1 week	7
	ASTRO 220SSU-TA	110223B-144	Astro 220SSU 1 1/4" NPSM Union w/ timer, aquastat & 6 ft. line corc	\$ 643	1 week	7
	ASTRO 225SSU-TA	110223B-145	Astro 225SSU 1 1/4" NPSM Union w/ timer, aquastat & 6 ft. line corc	\$ 657	1 week	7
	ASTRO 230SS-TA	110223B-148	Astro 230SS circulator w/ timer, aquastat & 6 ft. line corc	\$ 670	3 weeks	9
Timer Line Cord	ASTRO 250SS-TA	110223B-149	Astro 250SS circulator w/ timer, aquastat & 6 ft. line corc	\$ 697	3 weeks	9
	ASTRO 220SSU050S-T	110223B-240	Astro 220SSU Stainless steel 1/2" sweat w/ timer & 6 ft. line corc	\$ 626	1 week	7
	ASTRO 220SSU075S-T	110223B-241	Astro 220SSU Stainless steel 3/4" sweat w/ timer & 6 ft. line corc	\$ 628	1 week	7
	ASTRO 225BS050S-T	110223B-242	Astro 225BS Lead free bronze 1/2" sweat w/ timer & 6 ft. line corc	OBS	1 week	7
	ASTRO 225BS075S-T	110223B-243	Astro 225BS Lead free bronze 3/4" sweat w/ timer & 6 ft. line corc	OBS	1 week	7
	ASTRO 220SSU-T	110223B-244	Astro 220SSU 1 1/4" NPSM Union w/ timer & 6 ft. line cord	\$ 622	1 week	7
	ASTRO 225SSU-T	110223B-245	Astro 225SSU 1 1/4" NPSM Union w/ timer & 6 ft. line cord	\$ 636	1 week	7
Line Cord	ASTRO 230SS-T	110223B-248	Astro 230SS circulator w/ timer & 6 ft. line corc	\$ 652	3 weeks	9
	ASTRO 250SS-T	110223B-249	Astro 250SS circulator w/ timer & 6 ft. line corc	\$ 676	3 weeks	9
	ASTRO 220SSU050S-LC	110223-340	Astro 220SSU Stainless steel 1/2" sweat w/ 6 ft. line corc	\$ 476	1 week	6.5
	ASTRO 220SSU075S-LC	110223-341	Astro 220SSU Stainless steel 3/4" sweat w/ 6 ft. line corc	\$ 478	1 week	6.5
	ASTRO 225BS050S-LC	110223-342	Astro 225BS Lead free bronze 1/2" sweat w/ 6 ft. line corc	OBS	1 week	6.5
	ASTRO 225BS075S-LC	110223-343	Astro 225BS Lead free bronze 3/4" sweat w/ 6 ft. line corc	OBS	1 week	6.5
	ASTRO 220SSU-LC	110223-344	Astro 220SSU 1 1/4" NPSM Union w/ 6 ft. line cord	\$ 473	1 week	7.5
ASTRO 225SSU-LC	110223-345	Astro 225SSU 1 1/4" NPSM Union w/ 6 ft. line cord	\$ 482	1 week	7.5	
ASTRO 230SS-LC	110223-348	Astro 230SS circulator w/ 6 ft. line cord	\$ 502	3 weeks	8.5	
ASTRO 250SS-LC	110223-349	Astro 250SS circulator w/ 6 ft. line cord	\$ 531	3 weeks	8.5	

COMPASS CIRCULATORS

Compass R - Dry Rotor Design Envelope Variable Speed Circulators DUCTILE IRON BODY CONSTRUCTION

Model No.	Part No.	Connection	List Price	Wt. ea. lbs.
Compass R2075DI (115V)	119181-113	Flanged	\$ 1,500	17.8
Compass R2075DI (230V)	119182-113	Flanged	\$ 1,500	17.8
Compass R2035DI-8.5X2 (115V)	119981-113	Flanged	\$ 1,420	10.2
Compass R4045DI-8.5X2 (115V)	119381-113	Flanged	\$ 2,080	10.2
Compass R4045DI-8.5X2 (230V)	119382-113	Flanged	\$ 2,080	10.2

STAINLESS STEEL BODY CONSTRUCTION

Model No.	Part No.	Connection	List Price	Wt. ea. lbs.
Compass R2075SS (115V)	119181-173	Flanged	\$ 1,970	17.8
Compass R2075SS (230V)	119182-173	Flanged	\$ 1,970	17.8
Compass R2035SS-8.5X2 (115V)	119981-173	Flanged	\$ 1,850	10.2
Compass R4045SS-8.5X2 (115V)	119381-173	Flanged	\$ 3,100	10.2
Compass R4045SS-8.5X2 (230V)	119382-173	Flanged	\$ 3,100	10.2

Compass H- Design Envelop Variable Speed Circulators IRON BODY CONSTRUCTION (Includes Check Valve)

Model No.	Part No.	Connection	List Price	Wt. ea. lbs.
Compass H20-20 CI (0-10v)	180203-686	Flanged	\$ 366	11

STAINLESS STEEL BODY CONSTRUCTION* (Includes Check Valve)

Model No.	Part No.	Connection	List Price	Wt. ea. lbs.
Compass H20-20 SS (0-10v)	180203-687	Flanged	\$ 609	11
Compass H20-20 SSU (0-10v)	180203-684	Union	\$ 609	11

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

CAST IRON

Model	Part No.	Size	List Price	Wt. (lbs.)
Compass R2075, R2035	816013-212	0.75"	\$ 30	2
Compass R2075, R20-35, R40-45	816012-212	1"	\$ 29	2
Compass R2075, R20-35, R40-45	816011-212	1.25"	\$ 29	2
Compass R2075, R20-35, R40-45	816009-212	1.5"	\$ 29	3

LEAD FREE BRONZE*

Model	Part No.	Size	List Price	Wt. (lbs.)
Compass R2075, R2035	816013-942	0.75"	\$ 88	2
Compass R2075, R20-35, R40-45	816012-942	1"	\$ 88	2
Compass R2075, R20-35, R40-45	816011-942	1.25"	\$ 101	2
Compass R2075, R20-35, R40-45	816009-942	1.5"	\$ 112	3

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

CAST IRON

Model	Part No.	Size	List Price	Wt. (lbs.)
Compass H20-20 CI	816013-111	0.75"	\$ 30	2
Compass H20-20 CI	816012-111	1"	\$ 30	2
Compass H20-20 CI	816011-111	1.25"	\$ 30	2
Compass H20-20 CI	816009-111	1.5"	\$ 30	3

LEAD FREE BRONZE*

Model	Part No.	Size	List Price	Wt. (lbs.)
Compass H20-20 SS	816013-841	0.75"	\$ 96	2
Compass H20-20 SS	816012-841	1"	\$ 96	3
Compass H20-20 SS	816011-841	1.25"	\$ 109	2
Compass H20-20 SS	816009-841	1.5"	\$ 123	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		
E7.2	182202-643	182202-671	\$ 626	14.0
E8.2	182202-657	182202-645	\$ 674	14.0
E9.2	182202-659	182202-647	\$ 674	14.0
E10.2	182202-649	182202-661	\$ 688	17.0
E11.2	182202-651	182202-663	\$ 688	17.0
E12.2	182212-841	182212-800	\$ 1,211	20.0
E13.2	182202-655	182202-667	\$ 853	17.0
E14.2	182212-843	182212-802	\$ 1,256	20.0
E15.2	182212-661	182212-620	\$ 1,650	23.0
E16.2	182202-653	182202-665	\$ 1,375	21.0
E17.2	182212-663	182212-622	\$ 1,456	23.0
E19.2	182212-649	182212-608	\$ 1,404	23.0
E21.2	182212-665	182212-624	\$ 1,404	23.0
E22.2	182212-667	182212-626	\$ 1,816	23.0
E23.2	182212-651	182212-610	\$ 2,280	23.0
E24.2	182212-653	182212-612	\$ 1,786	23.0
E28.2	182212-655	182212-614	\$ 1,659	29.0
E29.2	182212-657	182212-616	\$ 1,992	29.0
E30.2	182212-645	182212-604	\$ 1,404	19.0
E30.2 - 3"	182212-671	182212-630	\$ 1,424	29.0
E33.2	182212-669	182212-628	\$ 1,496	19.0
E33.2 - 3"	182212-675	182212-634	\$ 1,518	29.0

* fluid temp = 150°F (65°C)

BRONZE BODY(Lead Free) CONSTRUCTION

Model	Part No.		List Price	Wt (lbs)
	120V Motor	240V Motor		
E7.2B	182202-644	182202-672	\$ 992	15.0
E8.2B	182202-658	182202-646	\$ 1,055	15.0
E9.2B	182202-660	182202-648	\$ 1,055	15.0
E10.2B	182202-650	182202-662	\$ 1,083	17.0
E11.2B	182202-652	182202-664	\$ 1,083	17.0
E12.2B	182212-842	182212-801	\$ 1,567	20.0
E13.2B	182202-656	182202-668	\$ 1,272	16.0
E14.2B	182212-844	182212-803	\$ 1,639	20.0
E15.2B	182212-662	182212-621	\$ 3,109	23.0
E16.2B	182202-654	182202-666	\$ 2,401	23.0
E17.2B	182212-664	182212-623	\$ 2,545	23.0
E19.2B	182212-650	182212-609	\$ 2,377	23.0
E21.2B	182212-666	182212-625	\$ 2,434	23.0
E22.2B	182212-668	182212-627	\$ 3,165	23.0
E23.2B	182212-652	182212-611	\$ 4,745	23.0
E24.2B	182212-654	182212-613	\$ 3,165	23.0
E28.2B	182212-656	182212-615	\$ 3,188	32.0
E29.2B	182212-658	182212-617	\$ 4,291	32.0
E30.2B	182212-646	182212-605	\$ 2,650	28.0
E30.2B - 3"	182212-672	182212-631	\$ 2,704	32.0
E33.2B	182212-670	182212-629	\$ 2,773	28.0
E33.2B - 3"	182212-676	182212-635	\$ 2,828	32.0

Flange kits*	Flange Kit Model and Part Number							
	Cast Iron				Lead Free Bronze**			
	E7 E8 E9 E12 E14 E15 E17	E10 E11 E13 E19 E21 E22 E23 E24	E16 E30-2" E33-2"	E28 E29 E30-3" E33-3"	E7 E8 E9 E12 E14 E15 E17	E10 E11 E13 E19 E21 E22 E23 E24	E16 E30-2" E33-2"	E28 E29 E30-3" E33-3"
Flange (¾")	816013-211	N / A	N / A	N / A	816013-941	N / A	N / A	N / A
Flange (1")	816012-211	806073-111	N / A	N / A	816012-941	806073-841	N / A	N / A
Flange (1¼")	816011-211	804300-111	N / A	N / A	816011-941	804300-841	N / A	N / A
Flange (1½")	816009-211	804301-111	N / A	N / A	816009-941	804301-841	N / A	N / A
Flange (2")	N / A	N / A	806074-111	N / A	N / A	N / A	806074-841	N / A
Flange (3")**	N / A	N / A	N / A	805188-111	N / A	N / A	N / A	805188-841

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

Description	Cast Iron			Lead Free Bronze**		
	Part No.	Price	Wt (lbs)	Part No.	Price	Wt (lbs)
Flange kit - (¾")	816013-211	\$ 31	2	816013-941	\$ 91	2
Flange kit - (1")	816012-211	\$ 30	2	816012-941	\$ 91	2
Flange kit - (1¼")	816011-211	\$ 30	2	816011-941	\$ 104	2
Flange kit - (1½")	816009-211	\$ 30	3	816009-941	\$ 115	3
Flange kit - (1")	806073-111	\$ 53	2	806073-841	\$ 152	2
Flange kit - (1¼")	804300-111	\$ 53	2	804300-841	\$ 152	2
Flange kit - (1½")	804301-111	\$ 53	3	804301-841	\$ 152	3
Flange kit - (2")	806074-111	\$ 149	4	806074-841	\$ 591	4
Flange kit - (3")	805188-111	\$ 152	7	805188-841	\$ 646	7

** 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)

SERIES S & H - HYDRONIC CIRCULATORS

ECM motor efficiency

Bronze Fitted Construction

Model No.	Motor H.P	Flange Size*	Wt. (lbs)	115/1/60		230/1/60	
				Item No.	List Price	Item No.	List Price
S-55-1	1/2 1PH	3"	77	106284MF-742	\$ 3,505	106284MF-842	\$ 3,505
S-57-1	3/4 1PH	3"	80	106285MF-742	\$ 4,149	106285MF-842	\$ 4,149
S-69-1	1 1PH	3"	113			116531-842	\$ 5,045

Lead Free

Model No.	Motor H.P	Flange Size*	Wt. (lbs)	115/1/60		230/1/60	
				Item No.	List Price	Item No.	List Price
S-55-1	1/2 1PH	3"	77	106284MF-743	\$ 5,744	106284MF-843	\$ 5,744
S-57-1	3/4 1PH	3"	80	106285MF-743	\$ 6,296	106285MF-843	\$ 6,296
S-69-1	1 1PH	3"	113			116531-843	\$ 7,899

SERIES S & H :STANDARD design

Model No.	Motor H.P	Flange Size*	Wt. (lbs)	Construction			
				Bronze Fitted		Lead Free* Bronze	
				Item No.	List Price	Item No.	List Price
S-25	1/12	Less Flgs	21	174031-013	OBS	174031LF-043	OBS
S-35	1/6	2"	42	174033-013	OBS	174033LF-043	OBS
S-45	1/4	Less Flgs See Note 4	50	174036-113	OBS	174036LF-143	OBS
S-46	1/3	3"	56	174037-113	OBS	174037LF-143	OBS
H-32	1/6	Less Flgs	33	174034-013	OBS	174034LF-043	OBS
H-41	1/6	1"	37	174035-113	OBS	174035LF-143	OBS
S-55-1	1/2 1PH	3"	90	106284-132	OBS	106284LF-133	OBS
S-55-3	1/2 3PH	3"	81	106284-136A	OBS	106284LF-137A	OBS
S-57-1	3/4 1PH	3"	90	106285-132	OBS	106285LF-133	OBS
S-57-3	3/4 3PH	3"	84	106285-136A	OBS	106285LF-137A	OBS
S-69-1	1 1PH	3"	143	116531-132	\$ 4,017	116532LF-133	\$ 7,222
S-69-3	1 3PH	3"	138	116535-136A	\$ 4,017	116536LF-137A	\$ 7,222

SERIES S & H :MAINTENANCE FREE design

Model No.	Motor H.P	Flange Size*	Wt. (lbs)	Construction			
				Bronze Fitted		Lead Free* Bronze	
				Item No.	List Price	Item No.	List Price
S-25	1/12	Less Flgs	21	174031MF-013	\$ 567	174031MF-043	\$ 988
S-35	1/6	2"	42	174033MF-013	\$ 1,254	174033MF-043	\$ 2,243
S-45	1/4	Less Flgs See Note 4	50	174036MF-113	\$ 1,645	174036MF-143	\$ 3,172
S-46	1/3	3"	56	174037MF-113	\$ 2,383	174037MF-143	\$ 4,485
H-32	1/6	Less Flgs	33	174034MF-013	\$ 1,010	174034MF-043	\$ 1,761
H-41	1/6	1"	37	174035MF-113	\$ 1,349	174035MF-143	\$ 2,159
S-55-1	1/2 1PH	3"	90	106284MF-132	\$ 2,406	106284MF-133	\$ 4,442
S-55-3	1/2 3PH	3"	81	106284MF-136A	\$ 2,406	106284MF-137A	\$ 4,442
S-57-1	3/4 1PH	3"	90	106285MF-132	\$ 2,859	106285MF-133	\$ 4,880
S-57-3	3/4 3PH	3"	84	106285MF-136A	\$ 2,859	106285MF-137A	\$ 4,880

Notes:

- STANDARD design circulators are with Sleeve Bearing SBA and MAINTENANCE FREE design circulators are with ball bearing SBA
- All circulators: Maximum Working Pressure 125psig
- Construction: Hydronic systems (225 degF max.) - Bronze Fitted construction. DHW - Use Lead Free Bronze Construction
- Both Lead Free Bronze & Bronze fitted construction includes non-ferrous impeller, impeller nut, and washer. (S69 is supplied with Bronze Impeller)
- S-45 flanges: 2.5" Iron (#105189-011) \$ 79 each 2.5" Bronze (#105189-841) \$ 200 each
 3" Iron (#105188-011) \$ 79 each 3" Lead Free Bronze (#105188-841) \$ 200 each
- 1/2hp to 1hp single phase motors are 115/230V, 60 cycle and have built in thermal overload protection.
- Three phase motors are 208/230/460V, 60 cycle unless otherwise indicated and require separate overload protection.
- All circulator motors are ODP (Open Drip Proof) enclosure unless shown otherwise
- All Item No. with -136A or -137A have Premium Efficiency motors.

*** Flanges- 10 per Pack**

Model	Flange Size	Cast Iron	List / Pack	Lead Free Bronze*	List / Pack	Wt. (lbs.)
S-25	0.75"	110140-026	\$ 112	110141-027	\$ 370	50
S-25	1"	110140-024	\$ 112	110141-025	\$ 370	50
S-25	1.25"	110140-022	\$ 112	110141-023	\$ 370	50
S-25	1.5"	110140-020	\$ 112	110141-021	\$ 370	80
H-32	1"	110140-032	\$ 147	110141-033	\$ 658	100
H-32	1.25"	110140-028	\$ 147	110141-029	\$ 658	100
H-32	1.5"	110140-030	\$ 147	110141-031	\$ 658	120

* Complies with Section 116875 of the California Health and Safety Code and Vermont Act 193

H-51 to H-68

SERIES S & H: ECM Motor Efficiency

				Bronze Fitted Construction			
				115/1/60		230/1/60	
Model No.	Motor H.P.	Flange Size	Wt. (lbs)	Item No.	List Price	Item No.	List Price
H-53	1/2	1.5"	59	116439MF-742	\$ 3,040	116439MF-842	\$ 3,040
H-54	3/4	2"	66	116451MF-742	\$ 3,174	116451MF-842	\$ 3,174
H-63	1/2	1.5"	91	116463-742	\$ 3,259	116463-842	\$ 3,259
H-64	3/4	1.5"	95	116475-742	\$ 3,705	116475-842	\$ 3,705
H-65	1	1.5"	95			116487-842	\$ 4,335
H-66	3/4	2"	115	116499-742	\$ 4,558	116499-842	\$ 4,558
H-67	1	2"	115			116511-842	\$ 4,659

				Lead Free Bronze Construction			
				115/1/60		230/1/60	
Model No.	Motor H.P.	Flange Size	Wt. (lbs)	Item No.	List Price	Item No.	List Price
H-53	1/2	1.5"	59	116439MF-743	\$ 4,978	116439MF-843	\$ 4,978
H-54	3/4	2"	66	116451MF-743	\$ 5,147	116451MF-843	\$ 5,147
H-63	1/2	1.5"	91	116463-743	\$ 6,176	116463-843	\$ 6,176
H-64	3/4	1.5"	95	116475-743	\$ 6,531	116475-843	\$ 6,531
H-65	1	1.5"	95			116487-843	\$ 7,169
H-66	3/4	2"	115	116499-743	\$ 7,085	116499-843	\$ 7,085
H-67	1	2"	115			116511-843	\$ 7,771

STOCK SIZES H-51 to H-68 : STANDARD design

				Bronze Fitted Construction				Lead Free Bronze Construction			
				Single Phase		Three Phase		Single Phase		Three Phase	
Model No.	Motor H.P.	Flange Size	Wt. (lbs)	Item No.	List Price	Item No.	List Price	Item No.	List Price	Item No.	List Price
H-51*	1/4	1"	53	116431-132	OBS	110119-100	OBS	116432LF-133	OBS	110119LF-101	OBS
H-52*	1/3	1.25"	53	116435-132	OBS	110119-102	OBS	116436LF-133	OBS	110119LF-103	OBS
H-53*	1/2	1.5"	64	116439-132	OBS	116443-136A	OBS	116440LF-133	OBS	116444LF-137A	OBS
H-54*	3/4	2"	75	116451-132	OBS	116455-136A	OBS	116452LF-133	OBS	116456LF-137A	OBS
H-63	1/2	1.5"	95	116463-132	\$ 2,466.00	116467-136A	\$ 2,418.00	116464LF-133	\$ 5,114.00	116468LF-137A	\$ 5,060
H-64	3/4	1.5"	98	116475-132	\$ 2,815.00	116479-136A	\$ 2,654.00	116476LF-133	\$ 5,420.00	116480LF-137A	\$ 5,329
H-65	1	1.5"	101	116487-132	\$ 3,321.00	116491-136A	\$ 3,041.00	116488LF-133	\$ 5,973.00	116492LF-137A	\$ 5,757
H-66	3/4	2"	121	116499-132	\$ 3,481.00	116503-136A	\$ 3,041.00	116500LF-133	\$ 5,971.00	116504LF-137A	\$ 6,035
H-67	1	2"	127	116511-132	\$ 3,587.00	116515-136A	\$ 3,294.00	116512LF-133	\$ 6,571.00	116516LF-137A	\$ 6,250
H-68	1 1/2	2"	132	Refer to 2D 1060		116523-136A	\$ 3,481.00	Refer to 2D 1060		116524LF-137A	\$ 6,571

* Non Ferrous Impeller

STOCK SIZES H-51 to H-68 : MAINTENANCE FREE design

				Bronze Fitted Construction				Lead Free Bronze Construction			
				Single Phase		Three Phase		Single Phase		Three Phase	
Model No.	Motor H.P.	Flange Size	Wt. (lbs)	Item No.	List Price	Item No.	List Price	Item No.	List Price	Item No.	List Price
H-51*	1/4	1"	53	116431MF-132	\$ 1,592.00	110119MF-100	\$ 1,707.00	116432MF-133	\$ 3,123	110119MF-101	\$ 3,599
H-52*	1/3	1.25"	53	116435MF-132	\$ 1,727.00	110119MF-102	\$ 1,777.00	116436MF-133	\$ 3,325	110119MF-103	\$ 3,461
H-53*	1/2	1.5"	64	116439MF-132	\$ 2,004.00	116443MF-136A	\$ 1,916.00	116440MF-133	\$ 3,647	116444MF-137A	\$ 3,586
H-54*	3/4	2"	75	116451MF-132	\$ 2,149.00	116455MF-136A	\$ 2,028.00	116452MF-133	\$ 3,940	116456MF-137A	\$ 3,787

Notes:

- STANDARD design circulators are with Sleeve Bearing SBA and MAINTENANCE FREE design circulators are with ball bearing SBA
- 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 electricians 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 Iron construction, consult the factory
- All Item No. with -136A or -137A have Premium Efficiency motors.

GOLD SERIES - PUMP LESS VOLUTE KITS

IN-LINE CIRCULATORS (SLEEVE BEARING SBA)

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	OBS
H-32 LV	110116-201	3-3/8 (86)	1/6	115	single	18	OBS
H-41 LV	110116-202	4-1/4 (108)	1/6	115	single	19	OBS
S-45 LV	110116-203	4-1/4 (108)	1/4	115	single	20	OBS
S-46 LV	110116-204	4-1/4 (108)	1/3	115	single	20	OBS
H-51 LV	110116-300	5-1/4 (135)	1/4	115	single	29	OBS
H-52 LV	110116-301	5-1/4 (135)	1/3	115	single	29	OBS
H-53 LV	110116-302	5-1/4 (135)	1/2	115/230	single	36	OBS
H-53-3 LV	110116-303	5-1/4 (135)	1/2	208-230/460	three	30	OBS
H-54 LV	110116-304	5-1/4 (135)	3/4	115/230	single	40	OBS
H-54-3 LV	110116-305	5-1/4 (135)	3/4	208-230/460	three	34	OBS
S-55 LV	110116-306	5-1/4 (135)	1/2	115/230	single	36	OBS
S-55-3 LV	110116-307	5-1/4 (135)	1/2	208-230/460	three	30	OBS

IN-LINE CIRCULATORS (BALL BEARING SBA / MAINTENANCE FREE)

Model No.	Item Number	Impeller - in (mm)	Motor H.P.	Voltage	Phase	Weight - lbs	List Price
S-25 LV/MF	110116MF-200	2-3/4 (70)	1/12	115	single	13	\$ 530
H-32 LV/MF	110116MF-201	3-3/8 (86)	1/6	115	single	18	\$ 961
H-41 LV/MF	110116MF-202	4-1/4 (108)	1/6	115	single	19	\$ 1,195
S-45 LV/MF	110116MF-203	4-1/4 (108)	1/4	115	single	20	\$ 1,536
S-46 LV/MF	110116MF-204	4-1/4 (108)	1/3	115	single	20	\$ 2,103
H-51 LV/MF	110116MF-300	5-1/4 (135)	1/4	115	single	29	\$ 1,404
H-52 LV/MF	110116MF-301	5-1/4 (135)	1/3	115	single	29	\$ 1,526
H-53 LV/MF	110116MF-302	5-1/4 (135)	1/2	115/230	single	36	\$ 1,770
H-53-3 LV/MF	110116MF-303	5-1/4 (135)	1/2	208-230/460	three	30	\$ 1,692
H-54 LV/MF	110116MF-304	5-1/4 (135)	3/4	115/230	single	40	\$ 2,527
H-54-3 LV/MF	110116MF-305	5-1/4 (135)	3/4	208-230/460	three	34	\$ 2,527
S-55 LV/MF	110116MF-306	5-1/4 (135)	1/2	115/230	single	36	\$ 2,124
S-55-3 LV/MF	110116MF-307	5-1/4 (135)	1/2	208-230/460	three	30	\$ 2,124

RAYPAK TIP BOILER HEADER PUMPS (SLEEVE BEARING SBA)

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	OBS
Raypak 2	110108-677	4-1/2 (113)	1/2	115/208-230	single	38	OBS
Raypak 3	110108-717	4-1/2 (113)	3/4	115/208-231	single	0	OBS
Raypak 4	110108-680	none	1/2	115/208-232	single	38	OBS

RAYPAK TIP BOILER HEADER PUMPS (BALL BEARING SBA / MAINTENANCE FREE)

Model No.	Item Number	Impeller - in (mm)	Motor H.P.	Voltage	Phase	Weight - lbs	List Price
Raypak 1/MF- 4.375 IMP nfi (1/3hp)	110108MF-675	4-3/8 (110)	1/3	115	single	48	\$ 1,376
Raypak 2/MF- 4.5 IMP nfi (1/2hp)	110108MF-677	4-1/2 (113)	1/2	115/208-230	single	82	\$ 1,545
Raypak 3/MF- 4.5 IMP nfi (3/4hp)	110108MF-717	4-1/2 (113)	3/4	115/208-231	single	68	\$ 1,593
Raypak 4/MF (1/2hp)	110108MF-680	none	1/2	115/208-232	single	58	\$ 1,313
SBA - 4.50in IMP bi	110108MF-394	4-1/2 (113)	N/A	SBA	N/A	10	\$ 730
SBA - 4.50in IMP nfi	110108MF-397	4-1/2 (113)	N/A	SBA	N/A	10	\$ 530
PLV - 4.25in IMP bi (1/2hp)	110108MF-679	4-1/4 (108)	1/2	115/208-230	single	82	\$ 1,707
PLV - 4.25in IMP nfi (3/4hp)	110108MF-817	4-1/4 (108)	3/4	115/208-230	single	68	\$ 1,755
PLV - 5.25in IMP nfi (3/4hp)	110116MF-304*	5-1/4 (133)	3/4	115/208-230	single	40	\$ 2,527
PLV - 4.25in IMP nfi (3/4hp)	110108MF-681	4-1/2 (133)	3/4	115/208-230	single	68	\$ 1,593

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.

GOLD SERIES - PUMP LESS VOLUTE KITS

Notes (cont'd):

7. See colour brochure for cross reference to all applicable models.
8. SBA – Seal Bearing Assembly, the motor and casing (volute) is not included
9. PLV – Pump Less Volute, the casing (volute) is not included
10. bi – Bronze Impeller
11. nfi – Non-Ferrous Impeller
12. *The original part number 110108-720, is replaced by 110116MF-304 as it is a full size untrimmed Impeller, a standard Pump Less Volute (PLV).

E SERIES CIRCULATORS

Model No.	Item Number	Motor H.P.	Voltage	Phase	Weight - lbs	List Price
E7.2 LV	182202-001	1/6	120	single	13	\$ 606
	182202-003	1/6	240	single	13	\$ 606
E8.2 LV	182202-005	1/6	120	single	13	\$ 651
	182202-007	1/6	240	single	13	\$ 651
E9.2 LV	182202-009	1/6	120	single	13	\$ 644
	182202-011	1/6	240	single	13	\$ 644
E10.2 LV	182202-013	1/6	120	single	15	\$ 680
	182202-015	1/6	240	single	15	\$ 680
E11.2 LV	182202-017	1/6	120	single	15	\$ 680
	182202-019	1/6	240	single	15	\$ 680
E12.2 LV	182212-021	2/5	120	single	15	\$ 1,060
	182212-023	2/5	240	single	15	\$ 1,056
E13.2 LV	182202-025	1/6	120	single	15	\$ 822
	182202-027	1/6	240	single	15	\$ 822
E14.2 LV	182212-029	2/5	120	single	18	\$ 1,088
	182212-031	2/5	240	single	18	\$ 1,088
E16.2 LV	182202-037	1/6	120	single	22	\$ 1,353
	182202-039	1/6	240	single	22	\$ 1,353

Notes:

1. Maximum Working Pressure = 150 psi (1034 kPa)
2. Maximum Liquid Temperature = 230F (110C)
3. Construction: SS face plate, Noryl Impeller, Gold painted (suits both boiler and potable water applications)
4. Mechanical Seal: Silicon carbide/ Carbon , 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.

HYDRONICS SPECIALTIES

AUTOMATIC AIR VENTS

12 units/box

Model	Item No.	List Price	Wt. (lbs)
AVA - 013	272005-300	\$ 27	0.2
AVA - 025	272005-301	\$ 31	0.2
AVA - 038	272005-302	\$ 39	0.2
AVA - 050*	272005-303	\$ 48	0.2
AVA - 075**	272005-308	\$ 68	0.35
AVV - 038	272005-305	\$ 60	0.35
AVV - 050*	272005-306	\$ 44	0.35
AVV - 075**	272005-307	\$ 53	0.6

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

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

Model	Item No.	List Price	Wt. (lbs)
71	272005-002	\$ 99	0.3
75	272005-003	\$ 119	0.5
72	272005-005	\$ 27	1
7A	272005-006	\$ 20	1
67	272005-004	\$ 42	0.5

FLO-CONTROL VALVES

Model	Item No.	List Price	Wt. (lbs)
Straight angle pattern			
FV-3/4-CI	216145-311	\$ 153	3
FV-1-CI	216146-311	\$ 153	3
FV-1-1/4-CI	216147-311	\$ 163	4
FV-1-1/2-CI	216148-311	\$ 219	8
FV-2-CI	216149-311	\$ 269	12
FV-2-1/2-CI	216391-311	\$ 583	22
FV-3	216392-311	\$ 666	24

FLEX FLANGE (Isolation Flange kit with Check Valve)

Model	Item No.	List Price	Wt. (lbs)
FF-050T	110124-200	\$ 89	1.62
FF-075T	110124-201	\$ 94	1.62
FF-100T	110124-202	\$ 110	2
FF-125T	110124-203	\$ 140	2.75
FF-150T	110124-204	\$ 182	3.75
FF-050S	110124-250	\$ 89	1.62
FF-075S	110124-251	\$ 94	1.62
FF-100S	110124-252	\$ 110	2
FF-125S	110124-253	\$ 140	2.75
FF-150S	110124-254	\$ 182	3.75

Note: Price includes 2 flanges, hardware & adapter gaskets

DIAPHRAGM EXPANSION TANKS (Residential)

Model	Item No.	List Price	Wt. (lbs)
15	572018-001	\$ 168	5
30	572018-002	\$ 203	9
60	572018-003	\$ 402	14
90	572018-004	\$ 549	23
SX-30V	572018-005	\$ 595	25
SX-40V	572018-006	\$ 630	32
SX-60V	572018-007	\$ 874	45
SX-90V	572018-008	\$ 1,606	70
SX-110V	572018-009	\$ 1,889	92
SX-160V	572018-010	\$ 2,006	113

COMBINATION VALVE

Model	Item No.	List Price	Wt. (lbs)
C-11-U *	216945-300	\$ 293	3

STANDARD RELIEF VALVE

RL-11	216942-300	\$ 134	1.25
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PRESSURE REDUCING VALVES

RD-11-U*	216944-300	\$ 152	2
RD-40	207937-343	\$ 200	3.25
RD-50	207937-300	\$ 200	3.25
HRD-70	207936-300	\$ 200	3.25

* with fast fill feature

Aquastat

Model	Item No.	List Price	Wt. (lbs)
1/2"	110123-120	\$ 55	0.7
3/4"	110123-121	\$ 55	0.7

24 hour Mechanical Timer

(Domestic Hot Water Recirculation)

Model	Item No.	List Price	Wt. (lbs)
Analogue timer	810223-130	\$ 145	0.7
24hr Manual timer for any circ. under 0.5hp	810123-130	\$ 135	0.7
For Astro 2 HWR ONLY	810223B-130	\$ 138	0.6

CIRCULATOR ISOLATION FLANGES

Model	Item No.	List Price	Wt. (lbs)
CIF-050T	110124-100	\$ 83	1.12
CIF-075T	110124-000	\$ 89	1.12
CIF-100T	110124-001	\$ 105	1.5
CIF-125T	110124-002	\$ 134	2.25
CIF-150T	110124-003	\$ 171	3.25
CIF-050S	110124-150	\$ 83	1.12
CIF-075S	110124-050	\$ 89	1.12
CIF-100S	110124-051	\$ 105	1.5
CIF-125S	110124-052	\$ 134	2.25
CIF-150S	110124-053	\$ 171	3.25

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

REPLACEMENT CHECK VALVES

Model	Item No.	List Price	Wt. (lbs)
CHECK VALVE 1"	810223-104	\$ 14	0.02
CHECK VALVE 1 1/4"	810223-105	\$ 21	0.04

1050 and 1060

CUSTOM BUILT - SERIES 1050

Model No.	Motor H.P.	Bronze Fitted Construction			Lead Free 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	\$ 2,073	X	\$ 2,187	\$ 3,786	X	\$ 3,842	53
	1/3	\$ 2,333	X	\$ 2,362	\$ 4,065	X	\$ 4,131	53
1-1/4B*	1/4	\$ 2,149	X	\$ 2,314	\$ 4,125	X	\$ 4,321	53
	1/3	\$ 2,389	X	\$ 2,425	\$ 4,386	X	\$ 4,449	53
	1/2	\$ 2,698	X	\$ 2,524	\$ 4,711	X	\$ 4,558	64
1-1/2B*	1/4	\$ 2,298	X	\$ 2,324	\$ 4,414	X	\$ 4,457	53
	1/3	\$ 2,389	X	\$ 2,478	\$ 4,514	X	\$ 4,650	53
	1/2	\$ 2,698	X	\$ 2,557	\$ 4,851	X	\$ 4,723	64
	3/4	\$ 2,892	X	\$ 2,719	\$ 5,079	X	\$ 4,913	83
2B	1/3	\$ 2,403	X	\$ 2,502	\$ 4,643	X	\$ 4,768	61
	1/2	\$ 2,698	X	\$ 2,524	\$ 4,956	X	\$ 4,784	79
	3/4	\$ 2,896	X	\$ 2,722	\$ 5,174	X	\$ 5,014	83
	1	\$ 3,756	X	\$ 3,366	\$ 6,121	X	\$ 5,719	88

Note:

1. Prices for 1050 series MAINTENANCE FREE design circulators are the same as the STANDARD design circulators .

CUSTOM BUILT - SERIES 1060

Model No.	Motor H.P.	Bronze Fitted Construction			Lead Free 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	\$ 2,698	X	\$ 2,557	\$ 4,851	X	\$ 4,723	95
	3/4	\$ 2,892	X	\$ 2,719	\$ 5,079	X	\$ 4,913	99
	1	\$ 4,047	X	\$ 3,973	\$ 7,719	X	\$ 7,425	101
	1 1/2	\$ 5,225	X	\$ 4,280	X	\$ 8,765	\$ 7,761	127
2D	1/2	\$ 2,698	X	\$ 2,524	\$ 4,956	X	\$ 4,784	99
	3/4	\$ 2,896	X	\$ 2,722	\$ 5,174	X	\$ 5,014	106
	1	\$ 3,756	X	\$ 3,366	\$ 6,121	X	\$ 5,719	110
	1.5	X	\$ 5,301	\$ 4,603	X	\$ 9,467	\$ 8,567	132
	2	X	X	\$ 4,836	X	X	\$ 8,826	138
3D	1	X	\$ 6,089	\$ 5,438	X	\$ 12,122	\$ 10,568	149
	1 1/2	X	\$ 5,301	\$ 5,749	X	\$ 9,467	\$ 10,892	152
	2	X	X	\$ 6,026	X	X	\$ 11,187	157
	3	X	X	\$ 6,808	X	X	\$ 11,975	165

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

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	\$ 1,046	410133-241	\$ 1,175
702T	1.25 X 1	3.5"	3/4-3500-3	36	410133-301	\$ 1,106	410133-341	\$ 1,228
704S	1.25 X 1	4"	1-3500-1	40	410133-203	\$ 1,236	410133-243	\$ 1,359
704T	1.25 X 1	4"	1-3500-3	40	410133-303	\$ 1,249	410133-343	\$ 1,374
705S	1.25 X 1	4.5"	1.5-3500-1	49	410133-204	\$ 1,502	410133-244	\$ 1,628
705T	1.25 X 1	4.5"	1.5-3500-3	49	410133-304	\$ 1,427	410133-344	\$ 1,551
706S	1.5 X 1.25	4.5"	2-3500-1	49	410134-200	\$ 1,738	410134-240	\$ 1,851
706T	1.5 X 1.25	4.5"	2-3500-3	49	410134-300	\$ 1,628	410134-340	\$ 1,786
707S	2 X 1.5	4"	1.5-3500-1	53	410135-200	\$ 1,522	410135-240	\$ 1,662
707T	2 X 1.5	4"	1.5-3500-3	53	410135-300	\$ 1,463	410135-340	\$ 1,608
709T	2 X 1.5	4.375"	2-3500-3	56	410135-302	\$ 1,668	410135-342	\$ 1,832
7010T	2 X 1.5	5"	3-3500-3	60	410135-303	\$ 1,875	410135-343	\$ 2,051

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 Temperature: 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	\$ 501	410133-940	\$ 615
1 1/2" x 1 1/4"	5"	410134-900	\$ 496	410134-940	\$ 613
2" x 1 1/2"	5.5"	410135-900	\$ 489	410135-940	\$ 593

SERIES 4270 MOTOR MOUNTED END SUCTION PUMPS WITH MOTORS

Standard Construction

Pump Size	RPM	Cast Iron Construction			Wt. (lbs.)
		Motor H.P.	Single Phase	Three Phase	
1.25 x 1 x 5	1800	0.33	\$ 1,153	X	40
		0.5	\$ 1,055	\$ 1,110	40
	3600	0.75	\$ 1,211	\$ 1,476	42
		1	\$ 1,238	\$ 1,251	44
		1.5	\$ 1,505	\$ 1,433	54
		2	\$ 1,730	\$ 1,599	56
		3	\$ 1,770	\$ 1,685	61
1.5 x 1.25 x 5.5	1800	0.33	\$ 1,165	X	40
		0.5	\$ 1,302	X	44
	3600	0.75	\$ 1,221	\$ 1,488	44
		1	\$ 1,249	\$ 1,261	46
		1.5	\$ 1,517	\$ 1,518	56
		2	\$ 1,742	\$ 1,607	58
		3	\$ 1,781	\$ 1,724	63
		5	\$ 2,424	\$ 2,336	68
2 x 1.5 x 5.5	1800	0.33	\$ 1,175	X	40
		0.5	\$ 1,315	X	44
	3600	0.75	\$ 1,228	\$ 1,495	44
		1	\$ 1,257	\$ 1,271	46
		1.5	\$ 1,526	\$ 1,450	56
		2	\$ 1,752	\$ 1,614	58
		3	\$ 1,789	\$ 1,755	63
		5	\$ 2,434	\$ 2,347	68

Standard Construction

1. Pump Construction: Cast Iron - Volute, ULTEM - Impeller,
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 Temperature: 275 deg F

For TEFC Motors

Motor h.p with 3 phase / 3600 rpm/ 60 Hz	List Price
1/2	\$ 179
3/4	\$ 184
1	\$ 113
1 1/2	\$ 103
2	\$ 124
3	\$ 152
5	\$ 324

*Seal Flush Line: \$ 91

*Required when pump is mounted vertically

RAYPAK TIP BOILER PARTS

Part No.	Description	List Price
816706-023	1/2" Viton Seal	OBS
106158-000	Body Gasket	\$ 7
807436-000	Coupler 1/2 x 1/2" (1/3hp motor)	OBS
806137-000	Coupler 1/2 x 5/8" (1/2hp motor)	OBS
816141-002	Resilient Mount Motor - 1/3hp/1750/60/1/115 - 2B1050 only	\$ 1,162
811757-001	Resilient Mount Motor - 1/2hp/1750/60/1/115/208/230 - 2B1050 only	\$ 1,045
816032-003	Universal SBA with Viton Seal - 2B1050 only	OBS
814910-001	Stub Shaft (1.5 B 4260 only)	\$ 231
816304-317	**Noryl Impeller (impeller diameter to be specified at time of order)	\$ 331
816304-047	Bronze Impeller (impeller diameter to be specified at time of order)	OBS

** 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"	\$ 892
110108-394	5 Series SBA with 4.5" noryl impeller & coupler	816304-317	4.5"	\$ 730
816999-097	Shaft & bearing module with Viton Seal kit	N/A	N/A	\$ 306

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