

E SERIES CIRCULATORS

CAST IRON BODY CONSTRUCTION

Model	Part No.		List Price	Wt (lbs)
	120V Motor	240V Motor		
E7	180200-643	180200-671	\$ 342.00	11.5
E8	180200-657	180200-645	\$ 368.00	11.5
E9	180200-659	180200-647	\$ 368.00	11.5
E10	180200-649	180200-661	\$ 376.00	13.0
E11	180200-651	180200-663	\$ 376.00	13.0
E12-TE*	180210-641	180210-600	\$ 665.00	17.0
E12	180210-841	180210-800	\$ 665.00	17.0
E13	180200-655	180200-667	\$ 468.00	13.0
E14-TE*	180210-643	180210-602	\$ 689.00	17.0
E14	180210-843	180210-802	\$ 689.00	17.0
E15	180210-661	180210-620	\$ 905.00	18.9
E16	180200-653	180200-665	\$ 754.00	18.6
E17	180210-663	180210-622	\$ 797.00	18.9
E19	180210-649	180210-608	\$ 769.00	18.7
E21	180210-665	180210-624	\$ 769.00	18.7
E22	180210-667	180210-626	\$ 997.00	18.7
E23	180210-651	180210-610	\$ 1,252.00	18.7
E24	180210-653	180210-612	\$ 979.00	18.7
E28	180210-655	180210-614	\$ 910.00	25.8
E29	180210-657	180210-616	\$ 1,092.00	25.8
E30	180210-645	180210-604	\$ 769.00	23.1
E30 - 3"	180210-671	180210-630	\$ 780.00	25.8
E33	180210-669	180210-628	\$ 820.00	23.1
E33 - 3"	180210-675	180210-634	\$ 831.00	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	\$ 533.00	12.8
E8B	180200-658	180200-646	\$ 566.00	12.8
E9B	180200-660	180200-648	\$ 566.00	12.8
E10B	180200-650	180200-662	\$ 580.00	14.8
E11B	180200-652	180200-664	\$ 580.00	14.8
E12B-TE*	180210-642	180210-601	\$ 842.00	18.0
E12B	180210-842	180210-801	\$ 842.00	18.0
E13B	180200-656	180200-668	\$ 683.00	14.8
E14B-TE*	180210-644	180210-603	\$ 881.00	18.0
E14B	180210-844	180210-803	\$ 881.00	18.0
E15B	180210-662	180210-621	\$ 1,672.00	20.3
E16B	180200-654	180200-666	\$ 1,292.00	20.7
E17B	180210-664	180210-623	\$ 1,368.00	20.3
E19B	180210-650	180210-609	\$ 1,278.00	20.1
E21B	180210-666	180210-625	\$ 1,308.00	20.1
E22B	180210-668	180210-627	\$ 1,703.00	20.1
E23B	180210-652	180210-611	\$ 2,553.00	20.1
E24B	180210-654	180210-613	\$ 1,703.00	20.1
E28B	180210-656	180210-615	\$ 1,716.00	27.7
E29B	180210-658	180210-617	\$ 2,310.00	27.7
E30B	180210-646	180210-605	\$ 1,424.00	24.7
E30B - 3"	180210-672	180210-631	\$ 1,453.00	27.7
E33B	180210-670	180210-629	\$ 1,491.00	24.7
E33B - 3"	180210-676	180210-635	\$ 1,521.00	27.7

Flange kits*	Flange Kit Model and Part Number							
	Cast Iron				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	816013-241	N/A	N/A	N/A
Flange (1")	816012-211	806073-111	N/A	N/A	816012-241	806073-141	N/A	N/A
Flange (1¼")	816011-211	804300-111	N/A	N/A	816011-241	804300-141	N/A	N/A
Flange (1½")	816009-211	804301-111	N/A	N/A	816009-241	804301-141	N/A	N/A
Flange (2")	N/A	N/A	806074-111	N/A	N/A	N/A	806074-141	N/A
Flange (3")**	N/A	N/A	N/A	805188-111	N/A	N/A	N/A	805188-141

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

Description	Cast Iron			Bronze		
	Part No.	Price	Wt (lbs)	Part No.	Price	Wt (lbs)
Flange kit - (¾")	816013-211	\$ 17.01	2	816013-241	\$ 52.02	2
Flange kit - (1")	816012-211	\$ 16.39	2	816012-241	\$ 51.85	2
Flange kit - (1¼")	816011-211	\$ 16.39	2	816011-241	\$ 59.71	2
Flange kit - (1½")	816009-211	\$ 16.39	3	816009-241	\$ 67.56	3
Flange kit - (1")	806073-111	\$ 28.70	2	806073-141	\$ 85.00	2
Flange kit - (1¼")	804300-111	\$ 28.70	2	804300-141	\$ 85.00	2
Flange kit - (1½")	804301-111	\$ 28.70	3	804301-141	\$ 85.00	3
Flange kit - (2")	806074-111	\$ 85.00	4	806074-141	\$ 336.00	4
Flange kit - (3")	805188-111	\$ 93.45	7	805188-141	\$ 389.00	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"	\$ 48.60	3
ESP-2	180222-011	1-1/4"	2 1/2"	\$ 48.60	3
ESP-4	180224-011	1 1/2"	3"	\$ 48.60	3
ESP-5	180225-011	1 1/2"	5"	\$ 48.60	3
ESP-6	180226-011	3"	1 1/2"	\$ 95.04	7
ESP-7	180227-011	3"	2 5/8"	\$ 95.04	7
ESP-8	180228-011	3"	3 1/2"	\$ 95.04	7
ESP-9	180229-011	3"	5 1/8"	\$ 95.04	7
ESP-10	180230-011	2"	5"	\$ 71.28	5
ESP-11	180231-011	1 1/2"	2 1/2"	\$ 48.60	3
ESP-12	180232-011	2"	3"	\$ 71.28	5
ESP-13	180233-011	2"	5 1/2"	\$ 71.28	5

ASTRO CIRCULATORS

ASTRO 3 Speed:

IRON BODY CONSTRUCTION

Model No.	Part No.	Connection	List Price	Wt. ea. lbs.
ASTRO 30-3	110123-305	Flanged	\$ 156.00	7
ASTRO 50-3	110123-307	Flanged	\$ 175.00	7

BRONZE BODY CONSTRUCTION

Model No.	Part No.	Connection	List Price	Wt. ea. lbs.
ASTRO 30B-3	110123-306	Flanged	\$ 258.00	8
ASTRO 50B-3	110123-308	Flanged	\$ 273.00	8

ASTRO Single Speed:

IRON BODY CONSTRUCTION

Model No.	Part No.	Connection	List Price	Wt. ea. lbs.
ASTRO-20F	110123-013	Flanged	\$ 143.00	7
ASTRO-30	110123-005	Flanged	\$ 149.00	7
ASTRO-50	110123-007	Flanged	\$ 168.00	7
ASTRO-70	110123-011	Flanged	\$ 258.00	8

BRONZE BODY CONSTRUCTION

Model No.	Part No.	Connection	List Price	Wt. ea. lbs.
ASTRO-20BS	110123-001	Sweat - 1/2"	\$ 237.00	6
ASTRO-20BS	110123-002	Sweat - 3/4"	\$ 244.00	6
ASTRO-25BS	110123-003	Sweat - 1/2"	\$ 237.00	6
ASTRO-25BS	110123-004	Sweat - 3/4"	\$ 244.00	6
ASTRO-20BU	110123-009	Union	\$ 246.00	6.5
ASTRO-25BU	110123-010	Union	\$ 251.00	6.5
ASTRO-20BF	110123-014	Flanged	\$ 244.00	8
ASTRO-30B	110123-006	Flanged	\$ 251.00	8
ASTRO-50B	110123-008	Flanged	\$ 267.00	8
ASTRO-70B	110123-012	Flanged	\$ 379.00	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"	\$ 16.27	2
ASTRO 20/30/50/70	816012-111	1"	\$ 16.27	2
ASTRO 20/30/50/70	816011-111	1.25"	\$ 16.27	2
ASTRO 20/30/50/70	816009-111	1.5"	\$ 16.27	3

BRONZE

Model	Part No.	Size	List Price	Wt. (lbs.)
ASTRO 20B/30B/50B/70B	816013-141	0.75"	\$ 53.33	2
ASTRO 20B/30B/50B/70B	816012-141	1"	\$ 53.33	2
ASTRO 20B/30B/50B/70B	816011-141	1.25"	\$ 61.46	2
ASTRO 20B/30B/50B/70B	816009-141	1.5"	\$ 69.60	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	\$ 35.54	2
ASTRO 20/25BU	810120-222	1.25" NPSM x 0.75" Sweat	\$ 35.54	2
ASTRO 20/25BU	810120-224	1.25" NPSM x 0.75" FNPT	\$ 39.99	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	110123-400	Astro 20 BU-T, union hardware kit*, Astro Express Valve	\$ 465.00	1 week	7.5
Astro Express Valve	561100-000	Extra valve for long branches off main distribution (optional)	\$ 91.00	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	Astro-20 Brz 1/2" sweat w/ timer, aquastat & 6 ft. line cord	\$ 377.00	1 week	7
	ASTRO 20B075S-TA	110123-141	Astro-20 Brz 3/4" sweat w/ timer, aquastat & 6 ft. line cord	\$ 383.00	1 week	7
	ASTRO 25B050S-TA	110123-142	Astro-25 Brz 1/2" sweat w/ timer, aquastat & 6 ft. line cord	\$ 377.00	1 week	7
	ASTRO 25B075S-TA	110123-143	Astro-25 Brz 3/4" sweat w/ timer, aquastat & 6 ft. line cord	\$ 383.00	1 week	7
	ASTRO 20BU-TA	110123-144	Astro 20 Brz union w/ timer, aquastat & 6 ft. line cord	\$ 385.00	3 weeks	7
	ASTRO 25BU-TA	110123-145	Astro 25 Brz union w/ timer, aquastat & 6 ft. line cord	\$ 391.00	3 weeks	7
	ASTRO 20BF-TA	110123-146	Astro 20 Brz flanged w/ timer, aquastat & 6 ft. line cord	\$ 383.00	1 week	9
	ASTRO 30B-TA	110123-148	Astro 30 Brz flanged w/ timer, aquastat & 6 ft. line cord	\$ 391.00	3 weeks	9
	ASTRO 50B-TA	110123-149	Astro 50 Brz flanged w/ timer, aquastat & 6 ft. line cord	\$ 406.00	3 weeks	9
ASTRO 70B-TA	110123-150	Astro 70 Brz flanged w/ timer, aquastat & 6 ft. line cord	\$ 519.00	3 weeks	9	
Timer Line Cord	ASTRO 20B050S-T	110123-240	Astro-20 Brz 1/2" sweat w/ timer & 6 ft. line cord	\$ 363.00	1 week	7
	ASTRO 20B075S-T	110123-241	Astro-20 Brz 3/4" sweat w/ timer & 6 ft. line cord	\$ 370.00	1 week	7
	ASTRO 25B050S-T	110123-242	Astro-25 Brz 1/2" sweat w/ timer & 6 ft. line cord	\$ 363.00	1 week	7
	ASTRO 25B075S-T	110123-243	Astro-25 Brz bronze 3/4" sweat w/ timer & 6 ft. line cord	\$ 370.00	1 week	7
	ASTRO 20BU-T	110123-244	Astro 20 Brz union w/ timer & 6 ft. line cord	\$ 372.00	1 week	7
	ASTRO 25BU-T	110123-245	Astro 25 Brz union w/ timer & 6 ft. line cord	\$ 379.00	1 week	7
	ASTRO 20BF-T	110123-246	Astro 20 Brz flanged w/ timer & 6 ft. line cord	\$ 370.00	1 week	9
	ASTRO 30B-T	110123-248	Astro 30 Brz flanged w/ timer & 6 ft. line cord	\$ 379.00	1 week	9
	ASTRO 50B-T	110123-249	Astro 50 Brz flanged w/ timer & 6 ft. line cord	\$ 393.00	1 week	9
ASTRO 70B-T	110123-250	Astro 70 Brz flanged w/ timer & 6 ft. line cord	\$ 505.00	3 weeks	9	
Line Cord	ASTRO 20B050S-LC	110123-340	Astro-20 Brz 1/2" sweat w/ 6 ft. line cord	\$ 267.00	3 weeks	6.5
	ASTRO 20B075S-LC	110123-341	Astro-20 Brz 3/4" sweat w/ 6 ft. line cord	\$ 273.00	3 weeks	6.5
	ASTRO 25B050S-LC	110123-342	Astro-25 Brz 1/2" sweat w/ 6 ft. line cord	\$ 267.00	3 weeks	6.5
	ASTRO 25B075S-LC	110123-343	Astro-25 Brz 3/4" sweat w/ 6 ft. line cord	\$ 273.00	3 weeks	6.5
	ASTRO 20BU-LC	110123-344	Astro 20 Brz union w/ 6 ft. line cord	\$ 275.00	3 weeks	7.5
	ASTRO 25BU-LC	110123-345	Astro 25 Brz union w/ 6 ft. line cord	\$ 281.00	3 weeks	7.5
	ASTRO 20BF-LC	110123-346	Astro 20 Brz flanged w/ 6 ft. line cord	\$ 273.00	3 weeks	8.5
	ASTRO 30B-LC	110123-348	Astro 30 Brz flanged w/ 6 ft. line cord	\$ 281.00	3 weeks	8.5
	ASTRO 50B-LC	110123-349	Astro 50 Brz flanged w/ 6 ft. line cord	\$ 296.00	3 weeks	8.5
ASTRO 70B-LC	110123-350	Astro 70 Brz flanged w/ 6 ft. line cord	\$ 409.00	3 weeks	8.5	

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	\$ 346.00	174031-043	\$ 593.00
S-35	1/6	2"	38	174033-013	\$ 769.00	174033-043	\$ 1,350.00
S-45	1/4	Less Flgs See Note 4	45	174036-113	\$ 1,010.00	174036-143	\$ 1,910.00
S-46	1/3	3"	51	174037-113	\$ 1,463.00	174037-143	\$ 2,703.00
H-32	1/6	Less Flgs	30	174034-013	\$ 632.00	174034-043	\$ 1,061.00
H-41	1/6	1"	34	174035-113	\$ 828.00	174035-143	\$ 1,300.00
S-55-1	1/2 1PH	3"	82	106284-132	\$ 1,476.00	106284-133	\$ 2,678.00
S-55-3	1/2 3PH	3"	74	106284-136	\$ 1,476.00	106284-137	\$ 2,678.00
S-57-1	3/4 1PH	3"	82	106285-132	\$ 1,755.00	106285-133	\$ 2,940.00
S-57-3	3/4 3PH	3"	76	106285-136	\$ 1,755.00	106285-137	\$ 2,940.00
S-69-1	1 1PH	3"	130	116531-132	\$ 2,466.00	116532-133	\$ 4,353.00
S-69-3	1 3PH	3"	125	116535-136	\$ 2,466.00	116536-137	\$ 4,353.00

Notes:

- All circulators: Maximum Working Pressure 125psig
- Construction: Hydronic systems (225 degF max.) - Bronze Fitted construction. DHW - Use All Bronze Construction
- 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) \$44.00 each** **2.5" Bronze (#105189-041) \$112.00 each**
3" Iron (#105188-011) \$44.00 each **3" Bronze (#105188-041) \$112.00 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

CUSTOM MODELS

Model No.	Item No.	List Price
S-25 LV (universal)	110116-005	\$ 356.00
S-25 BF/BI	174031-113	\$ 481.00
S-25 AB/BI	174031-143	\$ 721.00
S-35 BF/BI	174033-113	\$ 987.00
S-35 AB/BI	174033-143	\$ 1,608.00
H-32 LV (universal)	110116-009	\$ 629.00
H-32 AB/BI	174034-143	\$ 1,267.00
H-32 BF TEFC 1/4HP-3-60	174034-033	\$ 1,209.00
H-32 AB TEFC 1/4HP-3-60	174034-063	\$ 1,716.00

SPECIAL FEATURES - SERIES "S" & "H"

Description (NCP Number Required)	List Adder
230 Volt, Single Phase, 60 Cycle, 1/4 or 1/3 H.P.	\$ 354.00
208-230/460 Volt, 3 Phase, 60 Cycle 1/4 or 1/3 H.P.	\$ 488.00
115/230 volt 1 phase 60 cycle, 1/4hp TEFC motor (H-32,S-35,H-41 only)	\$ 408.00
For S-25 to H-57 and H-32 to H-41:	
Alloy Steel Shaft (with S.S. Shaft Sleeve)	\$ 72.00
Stainless Steel Shaft (with S.S. Shaft sleeve)	\$ 238.00
1/2" Viton Seal (brass fitted)	\$ 117.00
For S-69 Circulators:	
Alloy Steel Shaft (with S.S. sleeve)	\$ 231.00
Stainless Steel Shaft (with S.S. shaft sleeve)	\$ 395.00
3/4" Viton Seal (brass fitted)	\$ 152.00

*** Flanges- 10 per Pack**

Model	Flange Size	Cast Iron	List / Pack	Bronze	List / Pack	Wt. (lbs.)
S-25	0.75"	110140-026	\$ 63.72	110140-027	\$ 205.00	5
S-25	1"	110140-024	\$ 63.72	110140-025	\$ 205.00	5
S-25	1.25"	110140-022	\$ 63.72	110140-023	\$ 205.00	5
S-25	1.5"	110140-020	\$ 63.72	110140-021	\$ 205.00	8
H-32	1"	110140-032	\$ 82.08	110140-033	\$ 368.00	10
H-32	1.25"	110140-028	\$ 82.08	110140-029	\$ 368.00	10
H-32	1.5"	110140-030	\$ 82.08	110140-031	\$ 368.00	12



SERIES S & H - HYDRONIC CIRCULATORS

Point of Purchase Displays for S&H Replacement Parts

List Price - Normal multiplier applies

Part #	Display description	Price
110116-034	Floor display only	\$ 985.00
110116-035	Floor display w/ parts included	\$ 1,275.00
110116-029	Wall display only	\$ 500.00
110116-030	Wall display w/ parts included	\$ 985.00

HYDRONICS SPECIALTIES

TANK FITTINGS

Model	Item No.	List Price	Wt. (lbs)
TMA-24	213991-307	\$ 69.00	3
TMAL	216654-301	\$ 269.00	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	\$ 116.00	2
TDV-2-18	217111-300	\$ 123.00	3

AUTOMATIC AIR VENTS

12 units/box

Model	Item No.	List Price	Wt. (lbs)
AVA - 013	272005-300	\$ 14.30	0.2
AVA - 025	272005-301	\$ 17.60	0.2
AVA - 038	272005-302	\$ 20.90	0.2
AVA - 050*	272005-303	\$ 27.50	0.2
AVA - 075**	272005-308	\$ 38.50	0.35
AVV - 038	272005-305	\$ 34.10	0.35
AVV - 050*	272005-306	\$ 24.20	0.35
AVV - 075**	272005-307	\$ 29.70	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	\$ 56.10	5 oz.
75	272005-003	\$ 70.40	8 oz.
72	272005-005	\$ 14.30	1 oz.
7A	272005-006	\$ 9.90	1 oz.
67	272005-004	\$ 23.10	8 oz.

FLO-CONTROL VALVES

Model	Item No.	List Price	Wt. (lbs)
Straight angle pattern			
FV-3/4-CI	216145-311	\$ 96.00	3
FV-1-CI	216146-311	\$ 96.00	3
FV-1-1/4-CI	216147-311	\$ 101.00	4
FV-1-1/2-CI	216148-311	\$ 140.00	8
FV-2-CI	216149-311	\$ 171.00	12
FV-2-1/2-CI	216391-311	\$ 371.00	22
FV-3	216392-311	\$ 427.00	24
Straight pattern			
FV-1-BRZ	218828-342	185.00	2.5

ONE PIPE TEES

12 units/box

Model	Item No.	List Price	Wt. (lbs)
CU-T 3/4X1/2	212947-142	\$ 25.00	4
CU-T 1X1/2	212948-142	\$ 25.00	6
CU-T 1X3/4	212949-142	\$ 25.00	6
CU-T 1-1/4X1/2	212950-142	\$ 26.00	8
CU-T 1-1/4X3/4	212951-142	\$ 26.00	8

DIAPHRAGM EXPANSION TANKS (Residential)

Model	Item No.	List Price	Wt. (lbs)
15	572018-001	\$ 102.00	5
30	572018-002	\$ 124.00	9
60	572018-003	\$ 247.00	14
90	572018-004	\$ 339.00	23
SX-30V	572018-005	\$ 366.00	25
SX-40V	572018-006	\$ 390.00	32
SX-60V	572018-007	\$ 542.00	45
SX-90V	572018-008	\$ 996.00	70
SX-110V	572018-009	\$ 1,173.00	92
SX-160V	572018-010	\$ 1,244.00	113

COMBINATION VALVE

Model	Item No.	List Price	Wt. (lbs)
C-11-U *	216945-300	\$ 169.00	3

STANDARD RELIEF VALVE

RL-11	216942-300	\$ 76.70	1.25
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PRESSURE REDUCING VALVES

RD-11-U*	216944-300	\$ 87.10	2
RD-40	207937-343	\$ 119.60	3.25
RD-50	207937-300	\$ 119.60	3.25
HRD-70	207936-300	\$ 119.60	3.25

* with fast fill feature

Aquastat

Model	Item No.	List Price	Wt. (lbs)
1/2"	110123-120	\$ 30.24	10 oz.
3/4"	110123-121	\$ 30.24	10 oz.

24 hour Mechanical Timer

(Domestic Hot Water Recirculation)

Model	Item No.	List Price	Wt. (lbs)
Analogue timer	110123-130	\$ 81.00	10 oz.

CIRCULATOR ISOLATION FLANGES

Model	Item No.	List Price	Wt. (lbs)
CIF-050T	110124-100	\$ 48.16	1.12
CIF-075T	110124-000	\$ 50.40	1.12
CIF-100T	110124-001	\$ 60.48	1.50
CIF-125T	110124-002	\$ 76.16	2.25
CIF-150T	110124-003	\$ 98.56	3.25
CIF-050S	110124-150	\$ 48.16	1.12
CIF-075S	110124-050	\$ 50.40	1.12
CIF-100S	110124-051	\$ 60.48	1.50
CIF-125S	110124-052	\$ 76.16	2.25
CIF-150S	110124-053	\$ 98.56	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	\$ 20.00	6
ART-444-1-1/4	572017-002	\$ 21.00	6
ART-445-1-1/2	572017-003	\$ 41.00	9
ART-446-2	572017-004	\$ 43.00	10



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	\$ 975.00	110119-100	\$ 1,046.00
H-52*	1/3	1.25"	48	116435-132	\$ 1,059.00	110119-102	\$ 1,090.00
H-53*	1/2	1.5"	58	116439-132	\$ 1,229.00	116443-136	\$ 1,175.00
H-54*	3/4	2"	68	116451-132	\$ 1,319.00	116455-136	\$ 1,245.00
H-63	1/2	1.5"	86	116463-132	\$ 1,514.00	116467-136	\$ 1,484.00
H-64	3/4	1.5"	89	116475-132	\$ 1,728.00	116479-136	\$ 1,629.00
H-65	1	1.5"	92	116487-132	\$ 2,038.00	116491-136	\$ 1,867.00
H-66	3/4	2"	110	116499-132	\$ 2,138.00	116503-136	\$ 1,867.00
H-67	1	2"	115	116511-132	\$ 2,202.00	116515-136	\$ 2,023.00
H-68	1 1/2	2"	120	Refer to 2D 1060		116523-136	\$ 2,138.00

* Non Ferrous Impeller

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

CUSTOM BUILT - SERIES 1050 and SERIES 1060 - Bronze Fitted Construction

Model No.	Motor H.P.	Wt. (lbs)	List Price		
			Single Phase		Three Phase
			Resilient Mount	Rigid Mount	208/230/460 Rigid Mount
1B*	1/4	48	\$ 970.00	X	\$ 1,024.00
	1/3	48	\$ 1,093.00	X	\$ 1,107.00
1-1/4B*	1/4	48	\$ 1,007.00	X	\$ 1,084.00
	1/3	48	\$ 1,119.00	X	\$ 1,135.00
	1/2	58	\$ 1,263.00	X	\$ 1,182.00
1-1/2B*	1/4	48	\$ 1,077.00	X	\$ 1,088.00
	1/3	48	\$ 1,119.00	X	\$ 1,161.00
	1/2	58	\$ 1,263.00	X	\$ 1,198.00
	3/4	75	\$ 1,355.00	X	\$ 1,275.00
2B	1/3	55	\$ 1,127.00	X	\$ 1,171.00
	1/2	72	\$ 1,263.00	X	\$ 1,182.00
	3/4	75	\$ 1,357.00	X	\$ 1,276.00
	1	80	\$ 1,762.00	X	\$ 1,577.00
1-1/2D	1/2	86	\$ 1,538.00	X	\$ 1,490.00
	3/4	90	\$ 1,699.00	X	\$ 1,635.00
	1	92	\$ 1,897.00	X	\$ 1,862.00
	1 1/2	115	X	\$ 2,449.00	\$ 2,006.00
2D	1/2	90	\$ 1,615.00	X	\$ 1,584.00
	3/4	96	\$ 1,845.00	X	\$ 1,794.00
	1	100	\$ 2,004.00	X	\$ 1,980.00
	1.5	120	X	\$ 2,487.00	\$ 2,159.00
	2	125	X	X	\$ 2,267.00

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

H-51 to H-68 - 1050 and 1060

CUSTOM BUILT - SERIES 1050 and SERIES 1060 - Bronze Fitted Construction

Model No.	Motor H.P.	Wt. (lbs)	List Price			
			Single Phase		Three Phase	
			Resilient Mount	Rigid Mount	208/230/460 Rigid Mount	
3D	1	135	X	\$ 2,856.00		\$ 2,550.00
	1 1/2	138	X	\$ 3,248.00		\$ 2,696.00
	2	143	X	X		\$ 2,825.00
	3	150	X	X		\$ 3,194.00

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	\$ 1,881.00	110119-101	\$ 2,167.00
H-52*	1/3	1.25"	48	116436-133	\$ 2,001.00	110119-103	\$ 2,084.00
H-53*	1/2	1.5"	58	116440-133	\$ 2,197.00	116444-137	\$ 2,159.00
H-54*	3/4	2"	68	116452-133	\$ 2,372.00	116456-137	\$ 2,281.00
H-63	1/2	1.5"	86	116464-133	\$ 3,082.00	116468-137	\$ 3,048.00
H-64	3/4	1.5"	89	116476-133	\$ 3,266.00	116480-137	\$ 3,211.00
H-65	1	1.5"	92	116488-133	\$ 3,599.00	116492-137	\$ 3,468.00
H-66	3/4	2"	110	116500-133	\$ 3,597.00	116504-137	\$ 3,638.00
H-67	1	2"	115	116512-133	\$ 3,960.00	116516-137	\$ 3,765.00
H-68	1 1/2	2"	120	Refer to 2D 1060		116524-137	\$ 3,960.00

CUSTOM BUILT - SERIES 1050 - All Bronze Construction

Model No.	Motor H.P.	Wt. (lbs)	List Price			
			Single Phase		Three Phase	
			Resilient Mount	Rigid Mount	208/230/460 Rigid Mount	
1B*	1/4	48	\$ 1,740.00	X		\$ 1,767.00
	1/3	48	\$ 1,870.00	X		\$ 1,900.00
1-1/4B*	1/4	48	\$ 1,896.00	X		\$ 1,988.00
	1/3	48	\$ 2,018.00	X		\$ 2,046.00
	1/2	58	\$ 2,168.00	X		\$ 2,096.00
1-1/2B*	1/4	48	\$ 2,031.00	X		\$ 2,051.00
	1/3	48	\$ 2,076.00	X		\$ 2,141.00
	1/2	58	\$ 2,232.00	X		\$ 2,174.00
	3/4	75	\$ 2,337.00	X		\$ 2,260.00
2B*	1/3	55	\$ 2,136.00	X		\$ 2,193.00
	1/2	72	\$ 2,280.00	X		\$ 2,201.00
	3/4	75	\$ 2,380.00	X		\$ 2,305.00
	1	80	\$ 2,817.00	X		\$ 2,631.00

H-51 to H-68 - 1050 and 1060

CUSTOM BUILT - SERIES 1060 - All Bronze Construction

Model No.	Motor H.P.	Wt. (lbs)	List Price		
			Single Phase		Three Phase
			Resilient Mount	Rigid Mount	208/230/460 Rigid Mount
1-1/2D	1/2	86	\$ 3,048.00	X	\$ 3,012.00
	3/4	90	\$ 3,222.00	X	\$ 3,169.00
	1	92	\$ 3,551.00	X	\$ 3,418.00
	1 1/2	115	X	\$ 4,034.00	\$ 3,572.00
2D	1/2	90	\$ 3,337.00	X	\$ 3,318.00
	3/4	96	\$ 3,578.00	X	\$ 3,545.00
	1	100	\$ 3,940.00	X	\$ 3,748.00
	1 1/2	120	X	\$ 4,357.00	\$ 3,942.00
	2	125	X	X	\$ 4,063.00
3D	1	135	X	\$ 5,580.00	\$ 4,864.00
	1 1/2	138	X	\$ 5,417.00	\$ 5,014.00
	2	143	X	X	\$ 5,149.00
	3	150	X	X	\$ 5,510.00

SPECIAL FEATURES

LIST PRICE ADDITIONS	List Adder
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For Series 1050

Alloy Steel Shaft w/ stainless steel shaft sleeve	\$ 71.00
Stainless Steel shaft w/ S.S. Sleeve	\$ 233.00

For Series 1060

Alloy Steel Shaft w/ stainless steel shaft sleeve	\$ 238.00
Stainless Steel shaft w/ S.S. Sleeve	\$ 398.00
3/4" viton seal (brass fitted)	\$ 153.00

High Efficiency Motors Three Phase	
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For Series 1050 & 1060

1 hp/1750/60/3/208/230/460 ODP 84%	\$ 440.00
1.5 hp/1750/60/3/208/230/460 ODP 84%	\$ 436.00
2 hp/1750/60/3/208/230/460 ODP 84%	\$ 483.00
3 hp/1750/60/3/208/230/460 TEFC only	\$ 737.00

TEFC Motors Three Phase	
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For Series 1050 & 1060

1/2 hp/1750/60/3/208-230/460	\$ 292.00
3/4 hp/1750/60/3/208-230/460	\$ 333.00
1 hp/1750/60/3/208-230/460	\$ 374.00
1.5 hp/1750/60/3/208-230/460	\$ 415.00
2 hp/1750/60/3/208-230/460	\$ 421.00
3 hp/1750/60/3/208-230/460	\$ 459.00



SERIES 4270 MOTOR MOUNTED END SUCTION PUMPS WITH MOTORS

Standard Construction			Single Phase		Three Phase	
Pump Size	RPM	Motor H.P.	List Price	Wt. (lbs.)	List Price	Wt. (lbs.)
1.25 x 1 x 5	1800	1/3	\$ 649.00	36	N/A	X
		1/2	\$ 566.00	36	\$ 566.00	36
	3600	3/4	\$ 588.00	38	\$ 580.00	38
		1	\$ 667.00	40	\$ 646.00	40
		1 1/2	\$ 818.00	49	\$ 787.00	49
		2	\$ 937.00	51	\$ 907.00	51
		3	\$ 1,056.00	55	\$ 1,024.00	55

1.5 x 1.25 x 5.5	1800	1/3	\$ 670.00	36	N/A	X
		1/2	\$ 675.00	40	N/A	X
	3600	3/4	\$ 609.00	40	\$ 605.00	40
		1	\$ 690.00	42	\$ 667.00	42
		1 1/2	\$ 842.00	51	\$ 922.00	51
		2	\$ 962.00	53	\$ 928.00	53
		3	\$ 1,077.00	57	\$ 1,047.00	57
		5	\$ 1,287.00	62	\$ 1,301.00	62

2 x 1.5 x 5.5	1800	1/3	\$ 666.00	36	N/A	X
		1/2	\$ 670.00	40	N/A	X
	3600	3/4	\$ 608.00	42	\$ 627.00	42
		1	\$ 685.00	44	\$ 690.00	44
		1 1/2	\$ 831.00	53	\$ 834.00	53
		2	\$ 945.00	56	\$ 952.00	56
		3	\$ 1,057.00	60	\$ 1,068.00	60
		5	\$ 1,310.00	65	\$ 1,318.00	65

Bronze Body Construction			Single Phase		Three Phase	
Pump Size	RPM	Motor H.P.	List Price	Wt. (lbs.)	List Price	Wt. (lbs.)
1.25 x 1 x 5	1800	1/3	\$ 995.00	36	N/A	X
		3600	1/2	\$ 905.00	36	\$ 905.00
	3/4		\$ 928.00	38	\$ 920.00	38
	1		\$ 1,015.00	40	\$ 992.00	40
	1 1/2		\$ 1,182.00	49	\$ 1,147.00	49
	2		\$ 1,313.00	51	\$ 1,276.00	51
	3	\$ 1,441.00	55	\$ 1,406.00	55	

1.5 x 1.25 x 5.5	1800	1/3	\$ 1,102.00	36	N/A	X
		1/2	\$ 1,104.00	40	N/A	X
	3600	3/4	\$ 1,036.00	40	\$ 1,026.00	40
		1	\$ 1,121.00	42	\$ 1,098.00	42
		1 1/2	\$ 1,289.00	51	\$ 1,251.00	51
		2	\$ 1,416.00	53	\$ 1,383.00	53
		3	\$ 1,545.00	57	\$ 1,513.00	57
		5	\$ 1,833.00	62	\$ 1,786.00	62



SERIES 4270 MOTOR MOUNTED END SUCTION PUMPS WITH MOTORS

Bronze Body Construction			Single Phase		Three Phase	
Pump Size	RPM	Motor H.P.	List Price	Wt. (lbs.)	List Price	Wt. (lbs.)
2 x 1.5 x 5.5	1800	1/3	\$ 1,163.00	36	N/A	X
		1/2	\$ 1,163.00	40	N/A	X
	3600	3/4	\$ 1,103.00	42	\$ 1,091.00	42
		1	\$ 1,188.00	44	\$ 1,162.00	44
		1 1/2	\$ 1,356.00	53	\$ 1,316.00	53
		2	\$ 1,487.00	56	\$ 1,447.00	56
		3	\$ 1,613.00	60	\$ 1,577.00	60
	5	\$ 1,902.00	65	\$ 1,854.00	65	

LIST ADDITION

Bronze impeller	\$ 73.00
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TEFC Motors	List Adder	Single Phase	List Adder
1/2hp/3600/3/60/208/230	\$ 104.00	1/2hp/3600/1/60/115/230	\$ 132.00
3/4hp/3600/3/60/208/230	\$ 108.00	3/4hp/3600/1/60/115/230	\$ 135.00
1hp/3600/3/60/208/230	\$ 66.00	1hp/3600/1/60/115/230	\$ 94.00
2hp/3600/3/60/208/230	\$ 74.00	2hp/3600/1/60/115/230	\$ 101.00
3hp/3600/3/60/208/230	\$ 89.00	3hp	N/A

*Seal Flush Line:	\$ 52.00
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*Required when pump is mounted vertically

NOTES:

- Motors are ODP, 60 Hertz and 56J Frame with 416 stainless steel shaft.
- Available Voltages:
 Single Phase: 115/230 (3hp & 5 hp only available in 230 volt)
 Three Phase: 208-230/460, 575
- Pump Construction:
 Volute - cast iron (Standard Construction) or bronze (Bronze Volute)
 Impeller - ULTEM
 - Bronze (Price Adder)
 Seal - John Crane Type 21 or Viton available
 Faceplate - Stainless Steel
- Maximum Working Pressure - 150psi
- Maximum Temperature - 275 deg. F



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
701S	1.25 X 1	3.5"	1/3-3500-1	36	410133-200	\$ 557.00	410133-240	\$ 619.00
701T	1.25 X 1	3.5"	1/3-3500-3	36	410133-300	\$ 557.00	410133-340	\$ 619.00
702S	1.25 X 1	3.5"	1/2-3500-1	36	410133-201	\$ 605.00	410133-241	\$ 670.00
702T	1.25 X 1	3.5"	1/2-3500-3	36	410133-301	\$ 605.00	410133-341	\$ 670.00
703S	1.25 X 1	4"	3/4-3500-1	38	410133-202	\$ 628.00	410133-242	\$ 695.00
703T	1.25 X 1	4"	3/4-3500-3	38	410133-302	\$ 619.00	410133-342	\$ 686.00
704S	1.25 X 1	4.375"	1-3500-1	40	410133-203	\$ 713.00	410133-243	\$ 786.00
704T	1.25 X 1	4.375"	1-3500-3	40	410133-303	\$ 687.00	410133-343	\$ 757.00
705S	1.25 X 1	4.875"	1.5-3500-1	49	410133-204	\$ 872.00	410133-244	\$ 955.00
705T	1.25 X 1	4.875"	1.5-3500-3	49	410133-304	\$ 839.00	410133-344	\$ 920.00
706S	1.5 X 1.25	5"	2-3500-1	49	410134-200	\$ 1,025.00	410134-240	\$ 1,125.00
706T	1.5 X 1.25	5"	2-3500-3	49	410134-300	\$ 989.00	410134-340	\$ 1,085.00
707S	2 X 1.5	4"	1.5-3500-1	53	410135-200	\$ 919.00	410135-240	\$ 1,011.00
707T	2 X 1.5	4"	1.5-3500-3	53	410135-300	\$ 889.00	410135-340	\$ 978.00
708S	2 X 1.5	4.375"	1.5-3500-1	53	410135-201	\$ 919.00	410135-241	\$ 1,011.00
708T	2 X 1.5	4.375"	1.5-3500-3	53	410135-301	\$ 889.00	410135-341	\$ 978.00
709T	2 X 1.5	4.5"	2-3500-3	56	410135-302	\$ 1,014.00	410135-342	\$ 1,113.00
7010T	2 X 1.5	5"	3-3500-3	60	410135-303	\$ 1,140.00	410135-343	\$ 1,247.00
7011T	2 X 1.5	5.5"	5-3500-3	65	410135-304	\$ 1,264.00	410135-344	\$ 1,379.00

Notes:

Prices shown above cover units supplied as follows:

Open Drip Proof motors

Bronze fitted construction with cast iron volutes

Suffix "S" indicates Single phase 115/230 volt motor

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

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	\$ 235.00	410133-940	\$ 286.00
1 1/2" x 1 1/4"	5"	410134-900	\$ 235.00	410134-940	\$ 293.00
2" x 1 1/2"	5.5"	410135-900	\$ 235.00	410135-940	\$ 293.00



RAYPAK TIP BOILER PARTS

Part No.	Description	List Price
816706-023	1/2" Viton Seal	\$ 39.49
106158-000	Body Gasket	\$ 1.72
807436-000	Coupler 1/2 x 1/2" (1/3hp motor)	\$ 46.33
806137-000	Coupler 1/2 x 5/8" (1/2hp motor)	\$ 59.12
816141-002	Resilient Mount Motor - 1/3hp/1750/60/1/115 - 2B1050 only	\$ 700.21
811757-001	Resilient Mount Motor - 1/2hp/1750/60/1/115/208/230 - 2B1050 only	\$ 628.14
816032-003	Universal SBA with Viton Seal - 2B1050 only	\$ 351.00
814910-001	Stub Shaft (1.5 B 4260 only)	\$ 137.87
816304-317	**Noryl Impeller (impeller diameter to be specified at time of order)	\$ 197.09
816304-047	Bronze Impeller (impeller diameter to be specified at time of order)	\$ 290.62

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

REPLACEMENT PUMPS (LESS VOLUTE) - WITH VITON SEAL

Part No.	Description	Impeller used		List Price
		Part No.	Trimmed to:	
110108-675	1050 2b-ab lv viton seal / noryl impeller c/w 1/3hp/1750/60/1/115	816304-317	4.375" od	\$ 827.00
110108-777	1050 2b-ab lv viton seal / fabricated bronze impeller c/w 1/3hp/1750/60/1/115	816304-047	4.25" od	\$ 921.00
110108-677	1050 2b-ab lv viton seal / noryl impeller c/w 1/2hp/1750/60/1/115/208-230	816304-317	4.5" od	\$ 930.00
110108-679	1050 2b-ab lv viton seal / fabricated bronze impeller c/w 1/2hp/1750/60/1/115/208-230	816304-047	4.25" od	\$ 1,026.00
110108-717	1050 2b-ab lv viton seal / noryl impeller c/w 3/4hp/1750/60/1/115/208-230	816304-317	4.5" od	\$ 958.00
110108-817	1050 2b-ab lv viton seal / fabricated bronze impeller c/w 3/4hp/1750/60/1/115/208-230	816304-047	4.25" od	\$ 1,056.00
110108-680	1050 2b-ab lv / viton seal (less impeller) c/w 1/2hp/1750/60/1/115/208-230	N/A	N/A	\$ 789.00

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"	\$ 531.00
110108-394	5 Series SBA with 4.5" noryl impeller & coupler	816304-317	4.5"	\$ 458.00
816999-097	Shaft & bearing module with Viton Seal kit	N/A	N/A	\$ 185.00