

ABBREVIATIONS: BR = Bronze, CI = Cast Iron, T = Threaded

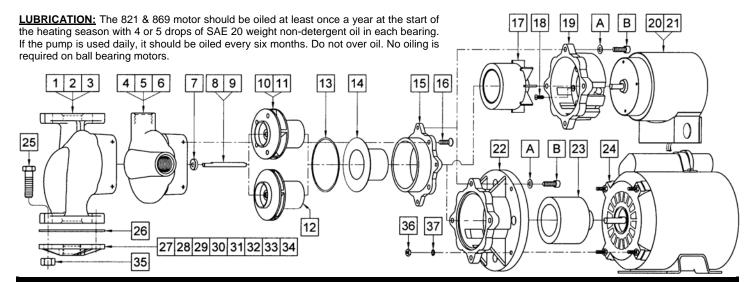
**DESCRIPTION:** The March 821 & 830 Series hot water booster and 869 Series hot oil circulator are centrifugal magnetic drive pumps that are built to handle liquid transfer in heating and cooling operations. Contact the factory for application assistance.

OPERATION: These pumps are not self-priming, lack a suction lift, and thus require a flooded suction. These pumps cannot be run dry.

**INSTALLATIONS:** The 821, 830, & 869 Series pumps should be installed with the pump housing arrow pointing in the direction of flow within the system. If the arrow indicating flow is not in the direction required, remove the housing screws (Item B) holding the housing to the motor bracket and rotate the housing assembly as required. Replace the screws and tighten. The pump is composed of a wet end assembly which can be separated by unscrewing the screws (Item B). The pump will then separate into 2 parts. The liquid will be contained within the wet end assembly unless the screws (Item 16) on the rear housing are loosened.

NOTES: All specifications & data are based on pumping water & are intended as a guideline only. Specifications may vary with different motors.

SPEC	CIFIC/	IFICATIONS		821-BR	821-CI	821-BR-T	821-CI-T	830-BR	830-CI	830-BR-T	830-BR-T 830-CI-T		869-CI-T	
Mary Elay	. 50	50Hz lpm		75.7		45.4		52.9		94	.6	75.7	45.4	
Max Flov	v 60	60Hz gpm		22		14		15		29		22	14	
Max Head	d 50	50Hz m		1.6		1.6		6.5		6.5		1.6		
IVIAX I IEAU	u 60	Hz	ft (psi)	8.5 (3.7)		8.5 (3.7)		30.5 (13.2)		30.5 (13.2)		8.5 (3.7)		
Inlet				Flange		3/4" FPT		Flange		3/4"	FPT	Flange	3/4" FPT	
	Outlet				Flange		3/4" FPT		nge	3/4"	FPT	Flange	3/4" FPT	
N	Max Internal psi			150		150		150		150		1:		
	Pressure bar			1	•	10		10		10		10		
	Max Liquid		°F	25	-	250		250		250		350		
	Temperatur		°C	12		121		121		121			76	
Pac	Packed Weight kg/lbs			6.5/14.5	6.3/14	5.4/12	5.2/11.5	10/21.5	9.5/21	8.5/19	8/18.5	6.3/14	5.2/11.5	
Motor Type					Air Cooled 1 Phase		Air Cooled 1 Phase		Air Cooled 1 Phase		Air Cooled 1 Phase			
50Hz	115V Watts - Amps Kw - Rpm			108 - 1.8		102 - 1.8		266 - 2.9		274 - 2.9		108 - 1.8		
00112			0.037 - 1350		0.037 - 1350		0.149 - 2850		0.149 - 2850		0.037 - 1350			
60Hz	115V	15V Watts - Am		1/20 - 1600		101 - 1.6 1/20 - 1600		376 - 2.7 1/5 - 3450		395 - 2.7		113 - 1.6		
	Hp - Rpm									1/5 -		1/20 - 1600		
Electrical Connection			Conduit Box		Conduit Box		Junction Box		Junction Box		Conduit Box			
	Motor Type			Air Cooleo	d 1 Phase	Air Cooled 1 Phase		Air Cooled 1 Phase		Air Cooled 1 Phase		Air Cooled 1 Phase		
50Hz	230V Watts - Amp			108 - 0.9		102 - 0.9		266 - 1.4		274 - 1.4		108 - 0.9		
00112		Kw - Rpm		0.037		0.037 - 1350		0.149 - 2850		0.149		0.037 - 1350		
60Hz	230V Watts - Amp Hp - Rp			113 -		101 - 0.8		376 - 1.4		395 - 1.4		113 - 0.8		
						1/20 - 1600		1/5 - 3450		1/5 -		1/20 - 1600		
	Electrical Connection			Condu		Condu	lit Box	Junction Box		Junction Box		Conduit Box		
	Overall Pump Height			6.31 /		6.19 / 15.7		6.93 / 17.6		6.93 / 17.6		6.31 / 16.0	6.19 / 15.7	
			Width	4.87 /		5.37 / 13.6		5.81 / 14.7		5.84 / 14.8		4.87 / 12.3	5.37 / 13.6	
I	Inches / cm Length			9.68 /	24.5	9.28 /	23.5	12.25	/ 31.1	11.84	/ 30.0	9.68 / 24.5	9.28 / 23.5	



		REPAIR PARTS LIST													
						821 Models			830 Models				869 Models		
ITEM	DESCRIPTION	MATERIAL	SIZE (Inches)	QTY	PART #	BR	CI	BR-T	CI-T	BR	CI	BR-T	CI-T	CI	CI-T
1	Pump Housing	Bronze	Flanged	1	0821-0064-0000	S				S					
2	Pump Housing	Cast Iron	Flanged	1	0821-0025-0000		S				S				
3	Pump Housing	Cast Iron	Flanged	1	0869-0031-0000									S	
4	Pump Housing	Bronze	3/4 Threaded	1	0821-0075-0000			S				S			
5	Pump Housing	Cast Iron	3/4 Threaded	1	0821-0080-0000				S				S		
6	Pump Housing	Cast Iron	3/4 Threaded	1	0869-0032-0000										S
7	Thrust Washer	Ceramic		1	0821-0079-1000	S	S	S	S	S	S	S	S	S	S
8	Shaft	Stainless		1	0821-0036-1000	S	S	S	S	S	S	S	S		
9	Shaft	Ceramic		1	0869-0015-1000									S	S
10	Impeller w/Carbon Bushing	Ryton	2.875 Dia	1	0821-0023-0200	S	S	S	S						
11	Impeller w/Carbon Bushing	Nylon	2.875 Dia	1	0869-0003-0200									S	S
12	Impeller	Ryton/Tefon/Carbon	2.812 Dia	1	0175-0073-0200					S	S	S	S		
13-1	Gasket	Nitrile/Fibre	2.968 ID x 0.031 Thk	1	0804-0050-1000	S	S	S	S					S	S
13-2	Gasket	Nitrile/Fibre	2.843 ID x 0.047 Thk	1	1043-0002-1000					S	S	S	S		
14	Rear Housing	Stainless		1	0821-0035-0100	S	S	S	S	S	S	S	S	S	S
15	Housing Connecting Ring	Aluminum		1	0821-0044-0000	S	S	S	S	S	S	S	S	S	S
	Screw, Flat Head	Steel	1/4-20 x 3/4 Lg	4	1043-0009-1000	S	S	S	S	S	S	S	S	S	S
17	Drive Magnet			1	0821-0086-0100	S	S	S	S					S	S
18	Screw Flat Head	Stainless	#8-32 x 1/2 Lg	4	0210-0028-1000	S	S	S	S					S	S
19	Motor Bracket	Plastic		1	0821-0104-1000	S	S	S	S					S	S
Α	Washer	Stainless	1/2 O.D.	4	0155-0021-1000	S	S	S	S	S	S	S	S	S	S
В	Screw, Socket Head	Steel	1/4-20 x 3/4 Lg	4	0804-0052-1000	S	S	S	S	S	S	S	S	S	S
20	Motor, 115V, 50/60Hz			1	0821-0084-1000	S	S	S	S					S	S
21	Motor, 230V, 50/60Hz			1	0821-0088-1000	S	S	S	S					S	S
22	Motor Bracket	Plastic		1	0175-0027-1000					S	S	S	S		
23	Drive Magnet			1	0151-0061-0200					S	S	S	S		
24	Motor, 115V/230V,50/60Hz			1	0175-0087-1000					S	S	S	S		
25	Screw, Hex Head		7/16-14 x 1-1/2 Lg	4	0804-0054-1000	0	0	0	0	0	0	0	0	0	0
26	Gasket, Flange	EPDM		1	0821-0105-1000	0	0	0	0	0	0	0	0	0	0
27	Flange	Bronze	3/4	2	0821-0069-0000	0	0	0	0	0	0	0	0	0	0
28	Flange	Steel	3/4	2	0804-0047-0000	0	0	0	0	0	0	0	0	0	0
29	Flange	Bronze	1	2	0821-0065-0000	0	0	0	0	0	0	0	0	0	0
30	Flange	Steel	1	2	0821-0045-0000	0	0	0	0	0	0	0	0	0	0
31	Flange	Bronze	1-1/4	2	0821-0072-0000	0	0	0	0	0	0	0	0	0	0
32	Flange	Steel	1-1/4	2	0821-0048-0000	0	0	0	0	0	0	0	0	0	0
33	Flange	Bronze	1-1/2	2	0821-0066-0000	0	0	0	0	0	0	0	0	0	0
34	Flange	Cast Iron	1-1/2	2	0821-0049-0000	0	0	0	0	0	0	0	0	0	0
35	Hex Nut	Steel	7/16-14	4	0804-0055-1000	0	0	0	0	0	0	0	0	0	0
	Hex Nut	Brass (Nickel Plated)	#8-32	4	0410-0039-1000					S	S	S	S		
37	Lock Washer	Stainless	#8	4	0620-0010-1000					S	S	S	S		
	NOTE: Contact Factory for other materials and/or parts not listed.							Lege	nd: S	= Sta	ndard	, O = 0	Option	al	

**GENERAL SAFETY INFORMATION:** Follow all local safety codes & the Occupational Safety and Health Act (OSHA). Make certain that the power source conforms to the requirements of your equipment. Always disconnect power source before performing any work on or near the electric motor. Caution must be exercised to relieve any pressure in the system & in draining hot liquid from the pump or the system. March cannot recommend the 821 or 830 Series out of bronze where the liquid is used for human consumption per California Law due to the presence of lead. 821 pumps are recognized under the component program of Underwriters Laboratories Inc. File E80954. UL Recognition on 821 pumps, file E80954, is for water only.

**DISASSEMBLY AND REASSEMBLY:** The motor can be removed from the wet end assembly without draining the liquid from the system. To do so remove four screws (Item B) and slide the motor assembly away. If parts inside the wet end assembly must be removed, isolate the pump or drain the system. When the system is drained and cool, remove the four screws (Item 16) from the rear of the housing. The rear housing can now be removed. Remaining pump parts can be removed. Replace any worn or damaged parts. Replace the gasket anytime the rear housing is removed.

LIMITED WARRANTY: March pumps are guaranteed only against defects in workmanship or materials for a period of one year from date of manufacture pumping water. For the complete warranty and to register online go to www.marchpump.com/warranty-registration