MARCH PUMPS

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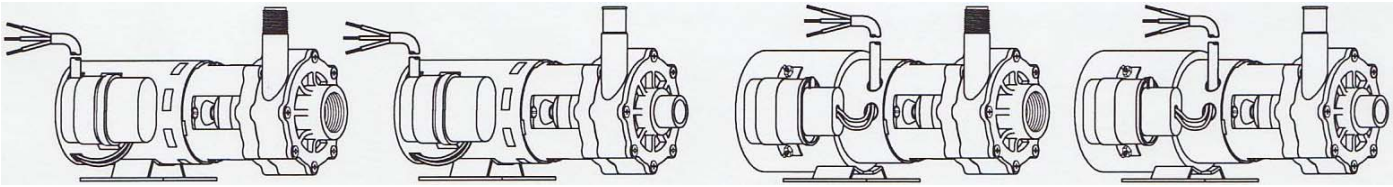
AC-4C-MD, BC-4C-MD AC-4A-MD, BC-4A-MD BC-4K-MD



AC-4C-MD | AC-4A-MD | BC-4C-MD & BC-4K-MD | BC-4A-MD

GENERAL RATINGS & SPECIFICATIONS

MODEL	Max Flow	Max Head	Inlet	Outlet	Max Internal Pressure	Max Liquid Temperature	115 Volt Models			Pack Weight
							Height	Width	Length	
AC-4C-MD	14 gpm	21.5 ft. 9.3 psi	1" FPT	1/2" MPT	50 psi 3.4 bar	190 °F 87 °C	5.57 in	5.11 in	9.77 in	8.5 lbs
AC-4A-MD			1" OD	3/4" OD			5.57 in	5.11 in	10.34 in	8.5 lbs
BC-4C-MD			1" FPT	1/2" FPT			5.65 in	5.36 in	10.18 in	10 lbs
BC-4A-MD			1" OD	3/4" OD			5.65 in	5.36 in	10.74 in	10 lbs
BC-4K-MD			1" FPT	1/2" FPT	75 psi (5 bar)	200 °F (93 °C)	5.65 in	5.36 in	10.18 in	10 lbs

MODEL ABBREVIATIONS:

AC = Air Cooled Motor, BC = Blast Cooled Motor
C/K = Threaded Inlet/Outlet, A = Smooth Inlet/Outlet
K = Kynar, C/A = Polypropylene
MD = Magnetic Drive
BC models have an encapsulated impeller magnet.

PUMP CONSTRUCTION & SERVICING:

March "Orbital" Magnetic Drive Pumps eliminate the conventional shaft seals found in most pumps. This means that there is no rotating seal to wear and allow the liquid being pumped to leak out. The pumping action may eventually fail, however the liquid can never leak out. The Model AC-4C-MD has an open air fan cooled, moisture protected motor, allowing the pump to be run continuously. Totally enclosed blast cooled motors are used on the BC pumps.

All pumps can be serviced with the use of screwdriver. The only moving part in the pump other than the motor is the impeller-magnet assembly. This assembly rotates on a stationary spindle and up against a thrust washer. These are the only parts that can wear, and may need to be replaced. See the Repair Parts List for replacement parts.

OPERATION:

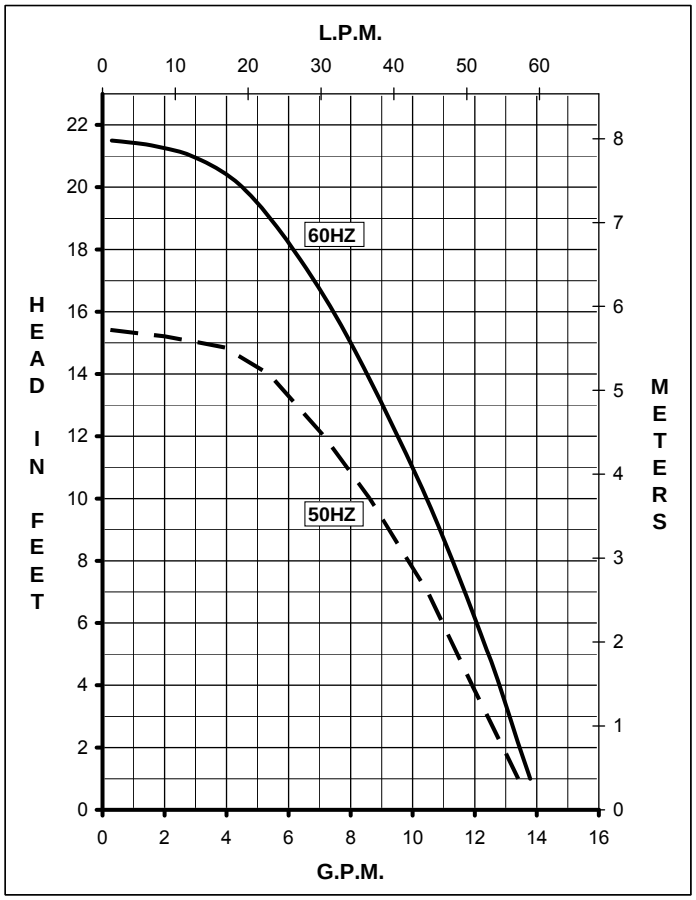
Pumps are not self priming and will not produce a suction lift and must be installed with a positive flooded suction. We rely on the liquid being pumped to lubricate the impeller-magnet assembly spinning on the stationary spindle. The pump is not to run dry as the plastic may "freeze" onto the spindle. Teflon and Carbon bushings are available if needed. Contact the factory for special applications.

ELECTRICAL:

Models are 115 Volt or 230 Volt, 50/60 Hz, 1 phase, A.C. The motors are thermal overload protected, and the motor and overload combinations are U.L. and C.S.A. listed. All cords sets are U.L. approved 18/3 wire, SJO or SJT cords. The AC & BC style pumps have 3 foot long cords with no plug attached.

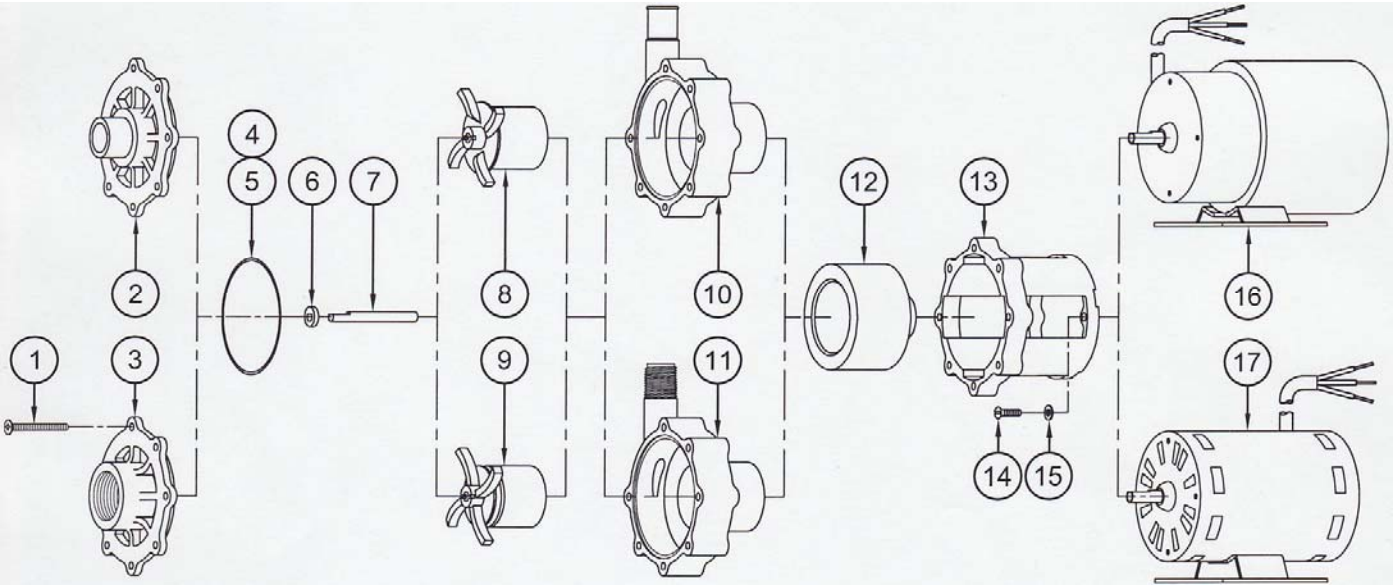
NOTES:

All specifications & data are based on pumping water and are intended for use as a guideline only. Ratings & dimensions may vary depending on the current motor being used.



MOTOR RATINGS & SPECIFICATIONS

MODELS	Volts	Hz	Ph	Hp	Rpm	Watts	Amps	Electrical Connection
AC-4C-MD AC-4A-MD	115	50	1	1/12	2850	121	1.75	3 ft. SJO
		60			3450	172	1.75	
	230	50	1	1/12	2850	126	0.75	3 ft. SJO
		60			3450	165	0.75	
BC-4C-MD BC-4A-MD BC-4K-MD	115	50	1	1/10	2850	125	1.9	3 ft. SJO
		60			3450	179	1.9	
	230	50	1	1/10	2850	121	0.75	3 ft. SJO
		60			3450	178	0.75	



NOTE:
When attaching the Drive Magnet Assembly (item 12) to the motor shaft, position the face of the Drive Magnet Assembly 1/16 inch below the face of the Motor Bracket (item 13).

REPAIR PARTS LIST					
ITEM	DESCRIPTION	MATERIAL	QTY	PART NO.	USED IN
1	Screw #8-32 x 1¾ Lg.	Stainless Steel	7	0150-0021-1000	All
2	Cover (1" OD Inlet)	Polypropylene	1	0150-0150-1000	4A Models
3	Cover (1" FPT Inlet)	Polypropylene	1	0150-0032-1000	4C Models
3a	Cover (1" FPT Inlet)	Kynar	1	0150-0124-1000	4K
4	"O" Ring	Buna-N	1	0135-0007-1000	AC Models
5	"O" Ring	Viton	1	0135-0023-1000	BC Models
6	Thrust Washer	Ceramic	1	0130-0028-1000	All
7	Shaft	Ceramic	1	0130-0024-1000	All
8	Encapsulated Impeller Assembly	Polypropylene	1	0145-0033-0200	BC Models
8a	Encapsulated Impeller Assembly	Kynar	1	0145-0039-0200	4K
9	Impeller Assembly	Polypropylene/Ceramic Mag.	1	0145-0011-0100	AC Models
10	Rear Housing w/Thrust Washer (3/4" OD Outlet)	Polypropylene	1	0150-0159-0100	4A Models
11	Rear Housing w/Thrust Washer (1/2" MPT Outlet)	Polypropylene	1	0150-0031-0100	4C Models
11a	Rear Housing w/Thrust Washer (1/2" MPT Outlet)	Kynar	1	0150-0123-0100	4K
12	Drive Magnet Assembly	Polypropylene	1	0145-0027-0100	All
13	Motor Connecting Bracket	Noryl	1	0145-0010-1000	All
14	Screw #8-32 x ⅝" Lg.	Stainless Steel	4	0618-0027-1000	All
15	Washer Flat, #8	Stainless Steel	4	0858-0004-1000	All
16	BC Motor 115 Volt BC Motor 230 Volt		1	0145-0035-1000 0145-0036-1000	BC Models
17	AC Motor 115 Volt AC Motor 230 Volt		1	0145-0012-1000 0145-0029-1000	AC Models
NOTE: Contact Factory for other materials and/or parts not listed.					

MATERIALS IN CONTACT WITH SOLUTION:

AC-4C/4A-MD: Polypropylene, Buna N, Ceramic, Ceramic Magnet
BC-4C/4A-MD: Polypropylene, Viton, Ceramic
BC-4K-MD: Kynar/Carbon Filled, Viton, Ceramic

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. On all other solutions, contact the factory for application assistance. March Pump Application Worksheet 0750-0130-1000 is available for additional warranty information.