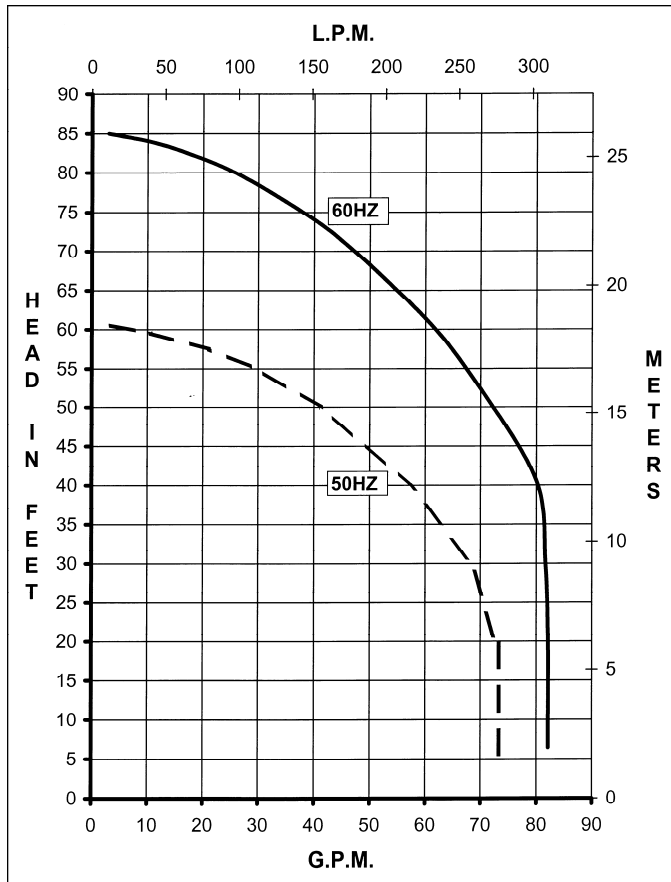
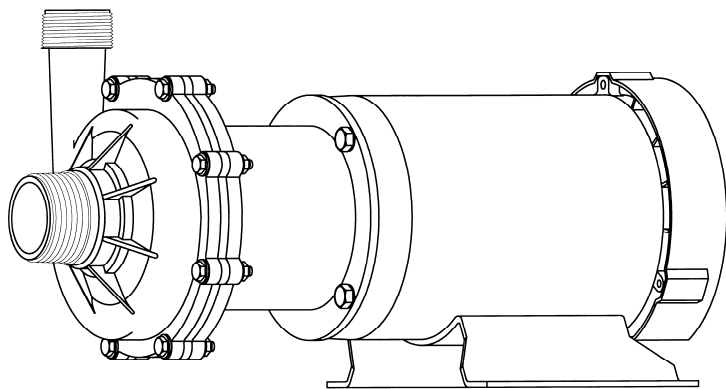




MARCH PUMPS

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TE-7.5K-MD TE-7.5P-MD



MODEL ABBREVIATIONS:

TE = Totally Enclosed Fan Cooled Motor
 K = Kynar
 P = Polypropylene
 MD = Magnetic Drive

PUMP CONSTRUCTION & SERVICING:

March "Orbital" Magnetic Drive Pumps eliminate the conventional shaft seals found in most pumps. This means that there is no rotating shaft or seal to wear and allow the liquid being pumped to leak out. The only seal in the pumps is a stationary "O" ring seal between the front and rear Housings. The Pumps can be serviced with an adjustable wrench. The only moving part in the pump, other than the motor, is the Impeller Assembly, which rotates on a stationary shaft and up against a thrust washer. These are the only parts that might wear, and may require replacement. 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. March relies on the liquid being pumped to lubricate the Impeller Assembly bushing spinning on the stationary shaft. If the pump is run dry for longer than 60 seconds, the Impeller bushing may "freeze" onto the shaft. The direction of motor rotation should be clockwise looking into the inlet of the pump. A trimmed impeller may be necessary when pumping a liquid with a specific gravity or viscosity greater than water as well in cases of high liquid temperature.

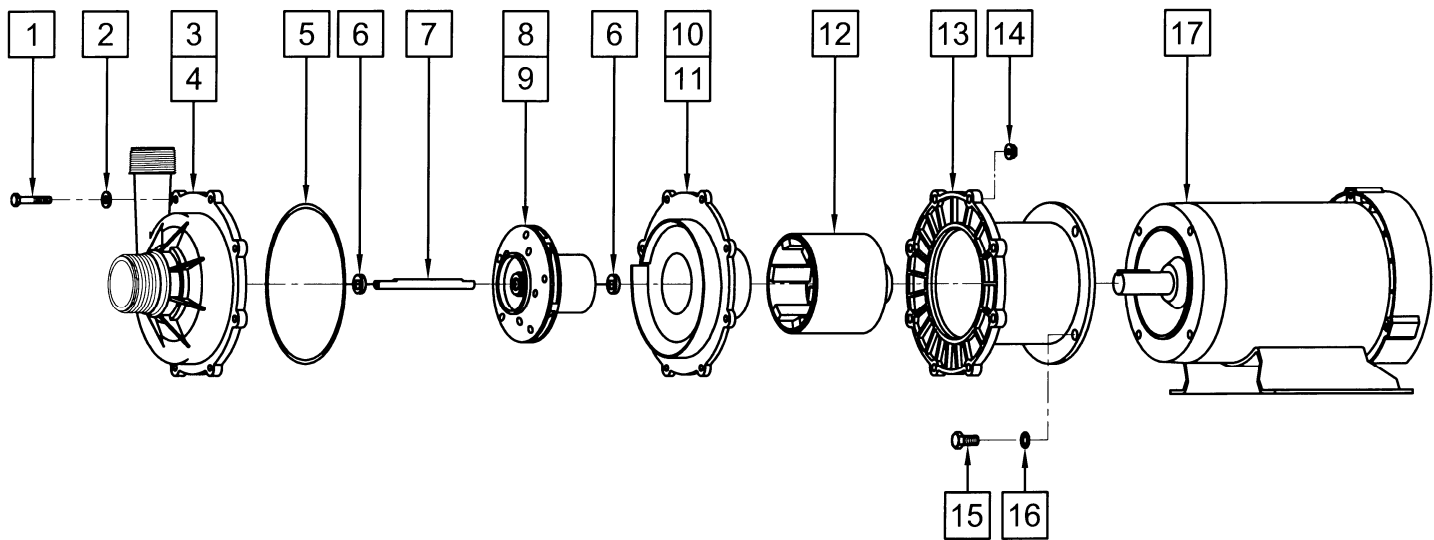
ELECTRICAL:

The standard pump motor is a TEFC, 3 phase, rated as continuous duty. A junction box is located on the side of the motor for making the electrical hook up. The wiring instructions are located on the motor label or on the junction box cover. The motor has U.L. yellow card recognition. Totally enclosed explosion proof and special voltage motors are available upon special order.

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.

SPECIFICATIONS			TE-7.5K-MD		TE-7.5P-MD	
Max Flow	50Hz	lpm	268		268	
	60Hz	gpm	82		82	
Max Head	50Hz	m	18		18	
	60Hz	ft (psi)	85 (36.8)		85 (36.8)	
Inlet			2" MPT		2" MPT	
Outlet			1-1/2" MPT		1-1/2" MPT	
Max Internal Pressure	psi		60		60	
	bar		4.1		4.1	
Max Liquid Temperature	°F		190		190	
	°C		87		87	
Packed Weight			kg/lbs		24/53	
Motor Type			TEFC		TEFC	
			230/460		230/460	
Phase			3		3	
50Hz	Volts		190	380	190	380
	Watts		1212	1212	1212	1212
	Amps		4.8	2.4	4.8	2.4
	Kw		1.118	1.118	1.118	1.118
	Rpm		2850	2850	2850	2850
60Hz	Volts		230	460	230	460
	Watts		1911	1911	1911	1911
	Amps		5.4	2.7	5.4	2.7
	Hp		2	2	2	2
	Rpm		3450	3450	3450	3450
Electrical Connection			Conduit Box		Conduit Box	
Overall Pump Dimensions (Inches)	Height		10		10	
	Width		9.53		9.53	
	Length		19.58		19.58	
Overall Pump Dimensions (cm)	Height		25.4		25.4	
	Width		24.2		24.2	
	Length		49.7		49.7	



REPAIR PARTS LIST

ITEM	DESCRIPTION	MATERIAL	QTY	PART #	TE-7.5K-MD	TE-7.5P-MD
1	Screw 1/4-20 x 1-1/2" Lg.	Stainless Steel	8	0153-0011-1000	S	S
2	Washer 1/4 I.D. x 5/8 O.D.	Stainless Steel	8	0157-0023-1000	S	S
3	Front Housing	Natural Kynar	1	0156-0001-1000	S	
4	Front Housing	Polypropylene	1	0156-0060-1000		S
5A	"O" Ring	Viton	1	0156-0010-1000	S	S
5B	"O" Ring	Viton/Teflon	1	0156-0023-1000	O	O
6	Thrust Washer (Front & Rear)	Ceramic	2	0156-0016-1000	S	S
7	Shaft	Ceramic	1	0156-0007-1000	S	S
8A	Impeller Assembly w/Carbon Bushings	Natural Kynar/Carbon	1	0156-0004-0200	S	
8B	Impeller Assembly w/Mica Teflon Bushings	Natural Kynar/Teflon	1	0156-0004-0300	O	
9A	Impeller Assembly w/Carbon Bushings	Polypropylene/Carbon	1	0156-0064-0200		S
9B	Impeller Assembly w/Mica Teflon Bushings	Polypropylene/Teflon	1	0156-0064-0300		O
10	Rear Housing	Natural Kynar	1	0156-0002-1000	S	
11	Rear Housing	Polypropylene	1	0156-0061-1000		S
12	Drive Magnet Assembly		1	0156-0009-0100	S	S
13	Motor Connecting Bracket		1	0156-0041-1000	S	S
14	Hex Nut 1/4-20	Stainless Steel	8	0156-0053-1000	S	S
15	Screw 3/8-16 x 1" Lg.	Stainless Steel	4	0155-0017-1000	S	S
16	Washer 3/8 I.D. x 5/8 O.D.	Stainless Steel	4	0155-0019-1000	S	S
17	Motor, TEFC, 2 HP, 230/460 Volt, 50/60Hz, 3 Phase.		1	0156-0008-1000	S	S
W1	Wet End Kit (Items: 1, 2, 3, 5A, 6, 7, 8A, 10, 14)	See Individual Items	1	0156-0031-0100	S	
W2	Wet End Kit (Items: 1, 2, 4, 5A, 6, 7, 9A, 11, 14)	See Individual Items	1	0156-0066-0100		S

NOTE: Contact Factory for other materials and/or parts not listed.

Legend: S = Standard, O = Optional

CAUTION IN ASSEMBLY/DISASSEMBLY:

The magnetic couplings in the series 7.5 pumps are made of rare earth cobalt material and are very powerful. If you disassemble the pump and remove the Impeller Assembly from the Rear Pump Housing, great care should be taken in handling. The attraction of the Impeller Magnet and the Drive Magnet may pull the Impeller from your grasp. You should hold onto the O.D. of the Impeller vanes with both hands and slowly engage the Impeller into the magnetic field. As you feel the axial magnetic pull, hold the Impeller firmly and resist the pull of the magnets, but slowly allow the Impeller to be pulled into the field. The axial magnetic pull is greatest between 1/8 to 1/4 engagement. The axial pull will diminish as the two magnets become aligned. If you allow the Impeller Assembly to snap into the rear housing, you may damage the impeller bushing, the rear thrust washer or the plastic. Care must be taken if you set the magnets down on or near a steel surface due to the powerful magnetic pull. These individual magnets may affect the calibration or damage sensitive electronic instruments if set next to the instrument. When attaching drive magnet to motor shaft, position the face of the drive magnet 5/32 inch above the face of the motor bracket.

MATERIALS IN CONTACT WITH SOLUTION:

For TE-7.5K-MD: Natural Kynar® (PVDF), Ceramic, Viton®, Carbon.

For TE-7.5P-MD: Polypropylene, Ceramic, Viton®, Carbon.

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.