MARCH PUMPS

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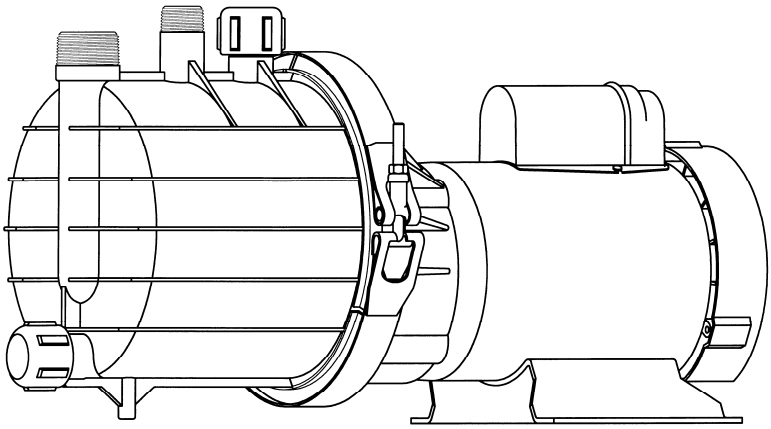
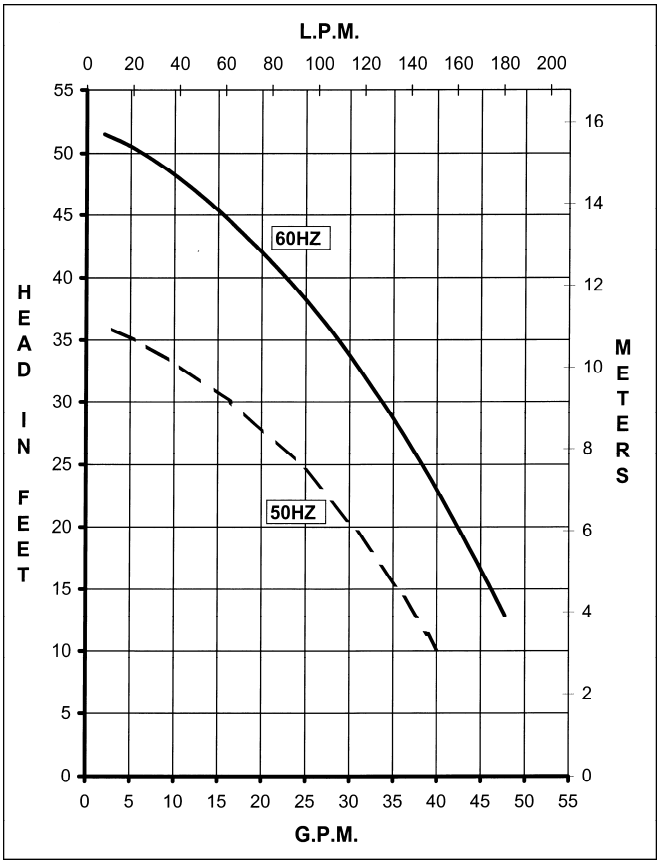
SP-TE-7P-MD
SP-TE-7K-MD



12 Feet Max Suction Lift



MODEL ABBREVIATIONS:

SP = Self Priming
K = Kynar, P = Polypropylene
MD = Magnetic Drive
TE = Totally Enclosed Fan Cooled Motor

OPERATION:

The Housing Container should be filled completely with liquid. The container holds approximately 1-3/4 gallons. After the container is full and the filler cap has been screwed tight, check all the connections for any leakage. Start the motor and continue to check for any leakage. The pump has the ability to pull up water a distance of 12 feet from the surface of your supply tank to the pump within one minute. If the unit does not self prime, then check for leakage or for obstructions in the piping system. No liquid pump should be run without liquid in the pump housing. Damage will occur to the plastic components due to friction heat. Short runs of 10 seconds will not damage the pump. This will allow you time to check your electrical connections and direction of rotation. 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:

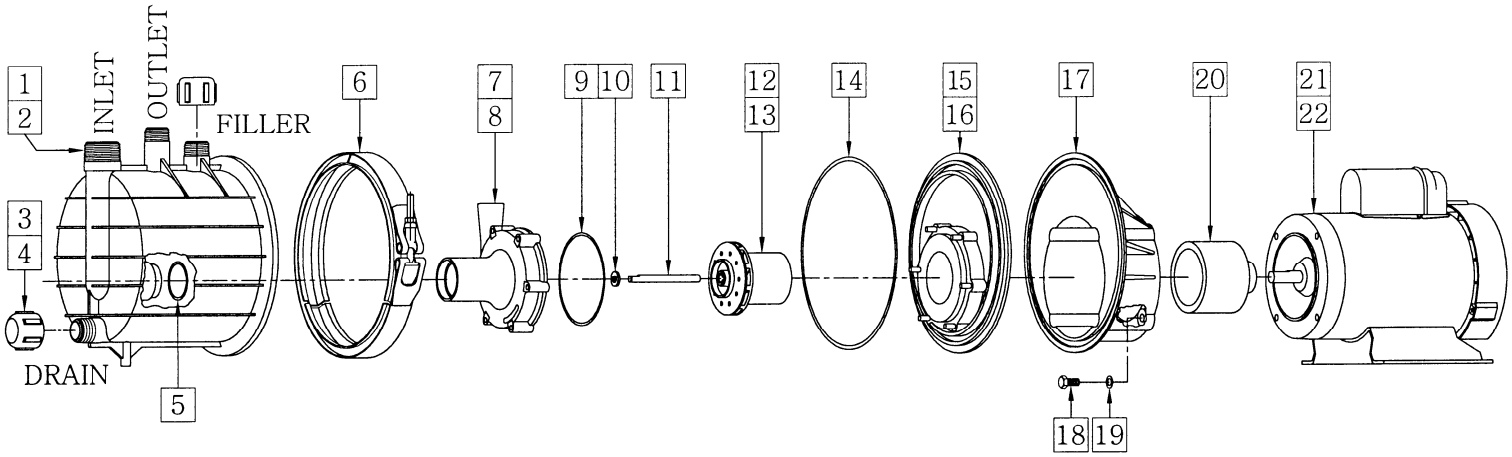
The Electrical Wiring Diagram for the motor is located on the side of the motor. The standard motor is 115/230 Volt, 1 Phase or 230/460 Volt, 3 Phase. Check your power source and choose the correct wiring hook up. When checking the motor for rotation, the Fan should rotate counter clockwise when viewing the fan from the back fan shroud position. The Motor Frame is an 182TCZ frame with an extended rigid base.

DISASSEMBLY & REASSEMBLY:

Drain all the liquid from the unit and flush with water. Examine the exploded view of the pump construction before starting to disassemble to become familiar with the unit. Loosen the Hex Nut on the "V" Retainer Clamp. Slide off the Clamp. The Housing Container can now be removed. The Front Housing can now be pulled forward and removed. The Impeller Assembly will slide off the Shaft. Clean all the parts as necessary and replace any worn or damaged parts. Reassemble as shown in the exploded view. Make sure the "O" Rings and Thrust Washer are in the proper position.

SPECIFICATIONS			SP-TE-7P-MD				SP-TE-7K-MD			
Max Flow	50Hz	lpm	180				180			
	60Hz	gpm	53				53			
Max Head	50Hz	m	11				11			
	60Hz	ft (psi)	52 (22.5)				52 (22.5)			
Inlet			1-1/2" MPT				1-1/2" MPT			
Outlet			1" MPT				1" MPT			
Max Internal Pressure		psi	50				50			
		bar	3.4				3.4			
Max Liquid Temperature		°F	190				190			
		°C	87				87			
Packed Weight		kg/lbs	26/57		23/50		26/57		23/50	
Motor Type			TEFC 115/230		TEFC 230/460		TEFC 115/230		TEFC 230/460	
Phase			1		3		1		3	
50Hz	Volts		110	220	230	460	110	220	230	460
	Watts		670	670	636	636	670	670	636	636
	Amps		12.4	6.2	3.0	1.5	12.4	6.2	3.0	1.5
	Kw		0.745	0.745	0.745	0.745	0.745	0.745	0.745	0.745
	Rpm		2850	2850	2850	2850	2850	2850	2850	2850
60Hz	Volts		115	230	230	460	115	230	230	460
	Watts		1045	1045	1022	1022	1045	1045	1022	1022
	Amps		11.8	5.9	3.0	1.5	11.8	5.9	3.0	1.5
	Hp		1	1	1	1	1	1	1	1
	Rpm		3450	3450	3450	3450	3450	3450	3450	3450
Electrical Connection			Conduit Box		Conduit Box		Conduit Box		Conduit Box	
Overall Pump Dimensions (Inches)		Height	12.53		12.53		12.53		12.53	
		Width	11.21		11.21		11.21		11.21	
		Length	24.12		24.12		24.12		24.12	
Overall Pump Dimensions (cm)		Height	31.8		31.8		31.8		31.8	
		Width	28.4		28.4		28.4		28.4	
		Length	61.2		61.2		61.2		61.2	

When replacing Impeller Bushing in the field: The plastic bushing must be bored to size after they have been pressed into the impeller. Bore to .378/.381 I.D. The carbon and ceramic bushings are to finished size and do not require boring. When attaching drive magnet to the motor shaft, position the face of the drive magnet 49/64 inch above the face of the motor bracket. When reassembling "V" Retainer Clamp, tighten down to 100-inch pounds.



REPAIR PARTS LIST						
ITEM	DESCRIPTION	MATERIAL	QTY	PART #	SP-TE-7P-MD	SP-TE-7K-MD
1	Housing Container	Polypropylene	1	0155-0177-1000	S	
2	Housing Container	Kynar	1	0155-0196-1000		S
3	Drain & Filler Cap	Polypropylene	2	0155-0182-1000	S	
4	Drain & Filler Cap	Kynar	2	0155-0197-1000		S
5A	"O" Ring 1-3/4" I.D.	Viton	1	0155-0179-1000	S	S
5B	"O" Ring 1-3/4" I.D.	Viton/Teflon	1	0155-0214-1000	O	O
6	V-Retainer Clamp	Stainless	1	0155-0183-1000	S	S
7	Front Housing	Polypropylene	1	0155-0175-1000	S	
8	Front Housing	Kynar	1	0155-0195-1000		S
9A	"O" Ring 4-1/2" I.D.	Viton	1	0155-0180-1000	S	S
9B	"O" Ring 4-1/2" I.D.	Viton/Teflon	1	0155-0215-1000	O	O
10	Thrust Washer	Ceramic	1	0155-0009-1000	S	S
11	Shaft	Ceramic	1	0155-0039-1000	S	S
12A	Impeller Assembly w/Carbon Bushing	Polypropylene/Carbon	1	0155-0159-0200	S	
12B	Impeller Assembly w/Mica Teflon Bushing	Polypropylene/Teflon	1	0155-0159-0400	O	
13A	Impeller Assembly w/Carbon Bushing	Kynar/Carbon	1	0155-0160-0200		S
13B	Impeller Assembly w/Mica Teflon Bushing	Kynar/Teflon	1	0155-0160-0400		O
14A	"O" Ring 9-1/2" I.D.	Viton	1	0155-0181-1000	S	S
14B	"O" Ring 9-1/2" I.D.	Viton/Telfon	1	0155-0216-1000	O	O
15	Rear Housing w/Thrust Washer	Polypropylene/Ceramic	1	0155-0176-0100	S	
16	Rear Housing w/Thrust Washer	Kynar/Ceramic	1	0155-0194-0100		S
17	Motor Connecting Bracket		1	0155-0178-1000	S	S
18	Screw 3/8–16 X 3/4"Lg	Stainless	4	0155-0017-1000	S	S
19	Washer 3/8 I.D. x 5/8 O.D.	Stainless	4	0155-0019-1000	S	S
20	Drive Magnet Assembly		1	0155-0130-0200	S	S
21	Motor, TEFC, 1HP, 1 Phase, 115/208-230V		1	0155-0185-1000	S	S
22	Motor, TEFC, 1HP, 3 Phase, 208-230/460V(Not Shown)		1	0155-0186-1000	S	S

NOTE: Contact Factory for other materials and/or parts not listed. **Legend:** S = Standard, O = Optional

MATERIALS IN CONTACT WITH SOLUTION:

SP-TE-7P-MD: Glass reinforced Polypropylene, Viton, Ceramic, Carbon
SP-TE-7K-MD: Kynar/Carbon Filled, Vition, Ceramic, Carbon

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.

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.