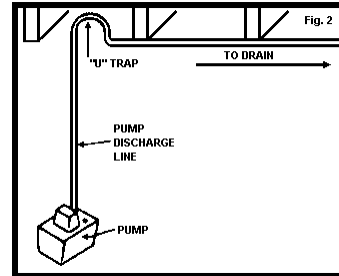
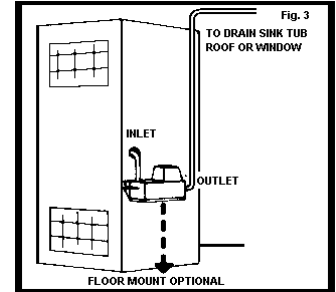
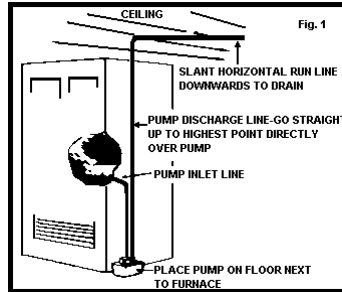
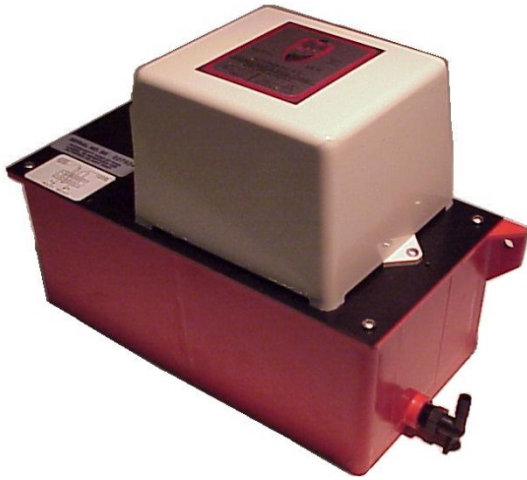




# MARCH PUMPS

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## AB-1F & AB-2F CONDENSATE DISPOSAL PUMPS



### RATINGS & SPECIFICATIONS

MODELS	MOTOR SPECS.					GALLONS PER HOUR (Rating based on using 1/4" I.D. Tubing)				MAX HEAD IN FT.	MAX P.S.I	OUTLET PORT	PACKED WEIGHT
	VOLTS	AMPS	WATTS	H.P.	R.P.M.	1 FT.	5 FT.	10 FT.	15 FT.				
AB-1F	115	1.55	88	1/35	3300	75	55	29	7	17	7.4	1/4 F.P.T	6.00 lbs.
AB-2F	115	1.7	88	1/35	3000	75	55	29	7	17	7.4	1/4 F.P.T	6.05 lbs.

**LOCATION:** Model AB-1F & AB-2F pumps are designed to mount BELOW the evaporator pan. It is preferable to mount pump as close to drip pan drain as possible to minimize actual lift and to clear components usually found on floor of most A.C. units. Pump is designed to mount on side of A.C. unit or on wall near unit by using the two ears on each end of the red plastic sump.

**PIPING:** The Condensate Pump Inlet is a 1" diameter hole in the rubber grommet in the top metal plate. Attach a 1" O.D. rubber or plastic tube to the evaporator drip pan drain connection and lead it down into the pump inlet hole. Make sure the drain line is not kinked or collapsed due to sharp bends. The Outlet is a 90° tube fitting to which you attach the 1/4" I.D. plastic tubing. It is important to go straight up from the pump to your highest vertical point and then run the horizontal line to the drain. All horizontal lines should be slanted slightly downwards toward the drain or disposal area in order to prevent line drain-back into the pump after it goes off See (Figure 1). If impractical to slant the horizontal run, make an inverted "U" trap directly over the pump at the highest point to prevent back-syphoning (See Figure 2). The slight amount of drain-back from vertical column is not generally enough with 1/4" I.D. tubing to short-cycle the pump. Total maximum lift is 17 feet.

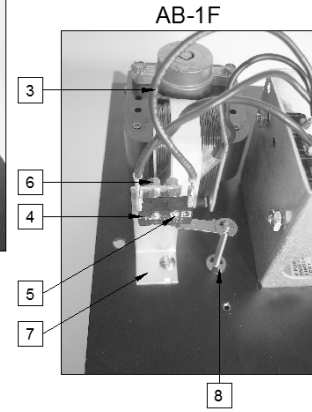
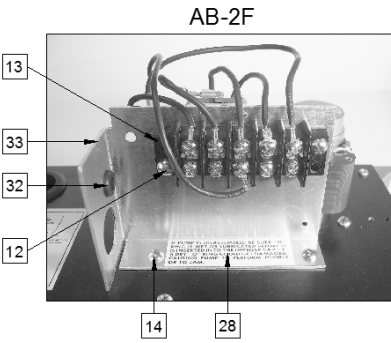
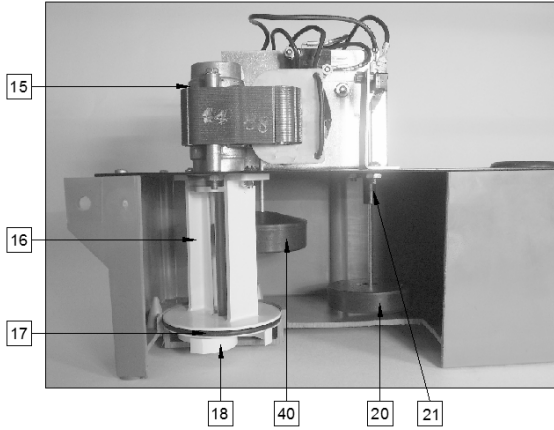
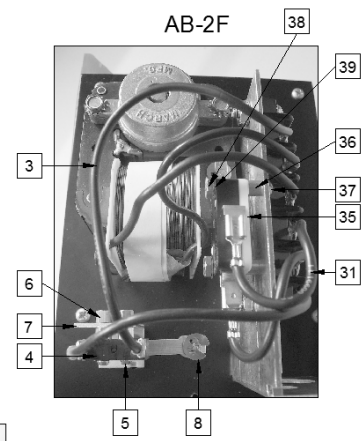
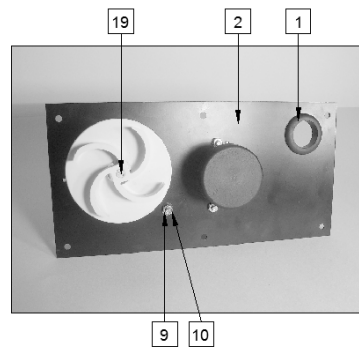
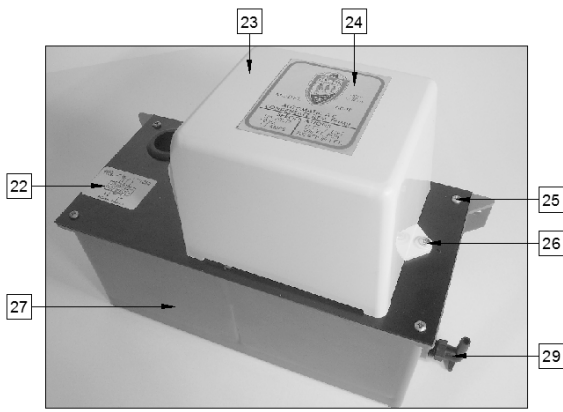
**ELECTRICAL AND OPERATION:** Remove the 2 self-tapping screws holding down the White Top Cover and lift the cover off. The Model AB-1F pump is equipped with a BX BRACKET and a 3 station Terminal Board. Model AB-2F is equipped with a BX Bracket and a 5 station Terminal Board. The complete wiring diagram is attached to the inside of the White Top Cover. Attach rigid or flexible conduit to the BX Bracket and wire the 115 Volt A.C. line for the Control On-Off Switch per the wiring diagram. The 115 Volt line current will operate the Motor-Pump-Float combination.

On the AB-2F, the Safety Switch must be connected to the 24 Volt A.C. relay transformer to the Air Conditioning Thermostat. If the Pump should fail to operate for any reason, the water will eventually trip the Safety Float and cause the Air Conditioning unit to shut off. This will prevent additional water from collecting and overflowing the container.

The motor is available in 230 Volt, 60Hz, 1 Phase. All motors are equipped with an automatic reset type thermal protector and the combination is U.L listed.

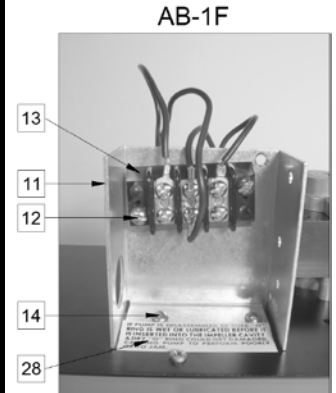
**SERVICING AND MAINTENANCE:** Remove the six screws on each corner of the galvanized sump cover and lift the assembly out of the Red Sump container. Clean out all dirt accumulation on the parts. Check the float rods to be sure they work freely. Check the discharge fitting and tubing for any dirt accumulation. Place the sump cover back in place and screw down with the 6 screws. Run the unit thru one cycle by pouring water into the container. Always replace the white top cover.

**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. See March limited warranty statement on card #0410-0104-1000 packed with this pump.



**PARTS LIST**

#	DESCRIPTION	AB-1F			AB-2F		
		SIZE (Inches)	QTY.	PART #	SIZE (Inches)	QTY.	PART #
1	Grommet	1 ID x 1-1/2 OD	1	0618-0017-1000	1 ID x 1-1/2 OD	1	0618-0017-1000
2	Mounting Plate		1	0618-0007-1000		1	0618-0007-1000
3	Lead Wire (Black)	18 Gauge 6 Lg.	2	0415-0033-0100	18 Gauge 6 Lg.	2	0415-0033-0100
4	Switch (High Voltage)		1	0618-0043-1100		1	0618-0043-1100
5	Screw (Round Hd)	#2-56 x 5/8 Lg.	2	0618-0086-1000	#2-56 x 5/8 Lg.	2	0618-0086-1000
6	Hex Spacer	3/16	4	0618-0122-1000	3/16	4	0618-0122-1000
7	Bracket for Micro Switch		1	0618-0042-1000		1	0618-0042-1000
8	Float E-Ring		2	0410-0007-1000		3	0410-0007-1000
9	Nut (Hex)	#8-32	9	0410-0039-1000	#8-32	9	0410-0039-1000
10	Lock Washer	#8 Internal Tooth	9	0620-0010-1000	#8 Internal Tooth	9	0620-0010-1000
11	Bracket (Mounting)		1	0618-0046-1000			
12	Screw (Round Hd)	#8-32 x 5/8 Lg.	2	0618-0027-1000	#8-32 x 5/8 Lg.	2	0618-0027-1000
13	Terminal Block	3 Pole	1	0618-0074-1000	5 Pole	1	0415-0012-1000
14	Screw (Round Hd)	#8-32 x 3/8 Lg.	5	0135-0040-1000	#8-32 x 3/8 Lg.	5	0135-0040-1000
15	Motor 115V 60HZ		1	0618-0001-1000		1	0618-0001-1000
16	Pump Connecting Bracket		1	0618-0014-1000		1	0618-0014-1000
17	"O"-Ring		1	0618-0031-1000		1	0618-0031-1000
18	Impeller		1	0618-0005-1000		1	0618-0005-1000
19	Screw (Flat Hd)	#4-40 x 5/16 Lg.	1	0618-0025-1000	#4-40 x 5/16 Lg.	1	0618-0025-1000
20	Float & Rod Assembly		1	0618-0010-0100		1	0618-0010-0100
21	Float Rod Guide		1	0618-0006-1000		1	0618-0006-1000
22	Label (Connection)		1	0618-0076-1000		1	0618-0029-1000
23	Motor Cover		1	0618-0002-1000		1	0618-0002-1000
24	Label (Pump)		1	0618-0075-1000		1	0618-0019-1000
25	Screw (Thd-Forming)	#8-18 x 1/2 Lg.	6	0410-0078-1000	#8-18 x 1/2 Lg.	6	0410-0078-1000
26	Screw (Thd-Cutting)	#6 x 3/8 Lg.	2	0620-0022-1000	#6 x 3/8 Lg.	2	0620-0022-1000
27	Pump Reservoir		1	0618-0003-1000		1	0618-0003-1000
28	Label (Caution) "O" Ring		1	0618-0065-1000		1	0618-0065-1000
29	Housing Elbow		1	0618-0033-1000		1	0618-0033-1000
30	Tubing (Not Shown)	1/4 ID x 30 ft. Lg.	1	0410-0024-1000	1/4 ID x 30 ft. Lg.	1	0410-0024-1000
31	Lead Wire (Black)				18 Ga. 2-1/2 Lg.	2	0618-0021-1000
32	Grommet				1/4 ID x 1/2 OD	1	0618-0032-1000
33	Bracket for Safety Switch					1	0618-0008-1000
34	Insulator (Screw)*					2	0618-0034-1000
35	Safety Switch					1	0415-0026-1000
36	Switch Spacer					2	0618-0020-1000
37	Screw (Round Hd)				#4-40 x 3/4 Lg.	2	0618-0026-1000
38	Hex Nut				#4-40	2	0618-0024-1000
39	Lock Washer				#4 Internal Tooth	2	0618-0034-1000
40	Float & Rod Assy (safety switch)					1	0618-0009-0100



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

\*Not Shown