

INSTRUCTIONS & REPAIR PARTS FOR

MODEL TCP-25 CONDENSATE REMOVAL PUMP



MODEL TCP-25 RATINGS AND SPECIFICATIONS

MOTOR SPECS				GALLONS PER HOUR					MAX.	MAX.			PACKED
R.P.M.	H.P.	WATTS	AMPS	1 FT.	6 FT.	12 FT.	18 FT.	24 FT.	HEAD	P.S.I.	HOLE	TUBING	WEIGHT
3000	1/20	170	2.1	200	50	30	15	5	26 Ft.	11.3	1"	1⁄4" O.D.	9 LBS.

LOCATION: Model TCP-25 is designed to mount BELOW the evaporator pan. It is preferable to mount pump as close to drip pan as possible to minimize actual lift and to clear components usually found on floor of most A.C. units. Pump can be mounted on the floor.

APPLICATION: Used on all medium and larger tonnage A.C. and refrigeration equipment. Where drip pan space is not adequate for coil deluges, a sump pump overcomes this and increases effective available reservoir. The March OVER SIZE SUMP plus LONG OPERATING CYCLE, plus LARGE PUMP CAPACITY means you have more AVAILABLE SUMP SPACE. March AIR BLEED means we pump down lower, have a longer ON CYCLE and do not go into HIGH SAFETY, while the compressor is shut off and water level is lowered. Sump holds 2 gallons.

The pump is also ideal for multiple coil hook-ups where two or more evaporators drain into a common sump. To use with multiple refrigerated display cases, drain all units into pump through a common line. March inlet is only 6 3/8" off the floor.

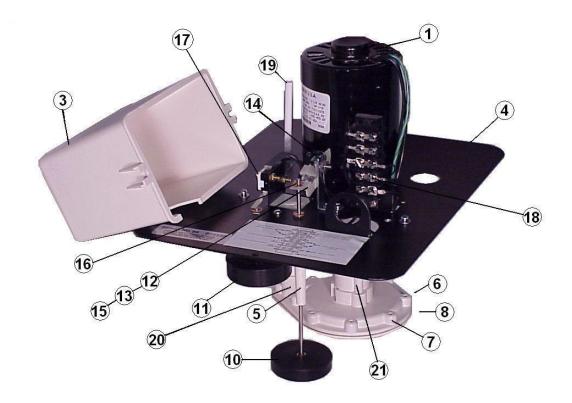
Piping: Model TCP-25 INLET is on top cover. INLET is a 1" diameter hole to facilitate gravity flow from drip pan to pump. Use at least ½" C.T. or larger for best result on INLET. On OUTLET, you get the benefit of pump pressure, so 1/4" copper tubing discharge line is more than adequate for heaviest tonnages. To get full rated lift and capacity use only 1/2" copper tubing or equivalent. Also 1/4" tubing is more economical, handles better, is disguised more easily and runs along baseboard or molding, doorways, partitions, etc. and gives less line drain-back. It is important to go to your highest vertical point as closely above pump as possible and then install horizontal run lines. All horizontal lines should be slanted slightly downwards toward drain or disposal area in order to prevent line drain-back into pump after it goes "OFF." If impractical to do this, make an inverted "U" trap directly over pump to prevent back-syphoning. Slight amount of drainback from vertical column is not enough with 1/4" copper tubing to "shortcycle" the pump. MODEL TCP-25 MAXIMUM LIFT is 26 vertical feet measured from pump impeller. For capacities at given lift and run see Rating Chart.

ELECTRICAL AND OPERATION: Remove the 2 self tapping screws holding down the Top Cover and lift the Cover to the side. The Model TCP-25 Pump is equipped with a BX Bracket and a 5 station Terminal Board. The complete wiring diagram is attached to the galvanized Sump Cover in front of the BX Bracket. Attach rigid or flexible conduit and wire the 115 volt A.C. line as per the wiring diagram. The 115 volt line current will operate the Motor-Pump-Float combination.

The Safety Switch must be connected to a 24 volt A.C. power source as per the wiring diagram. The Safety Float will operate independently of the Motor-Pump-Float combination. 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 also available in 230 Volt, 1 Phase, 60 cycle. All motors are equipped with an automatic reset type thermal protector and the combination is U.L. listed.

SERVICING: The motor on Model TCP-25 is fan cooled and moisture proof. To clean the impeller cavity, especially after standing during "OFF-SEASON," remove top mounting plate studs, lift pump assembly out of sump and remove bottom impeller plate. Scrape clean, then visually check impeller clearances for free-turning. Float rods should be cleaned. Always replace cover on pump.



MODEL TCP-25 PARTS LIST							
ITEM	DESCRIPTION	QUANTITY	PART NUMBER				
1A	MOTOR, 115 VOLT	1	0415-0021-0100				
1B	MOTOR, 230 VOLT	1	0415-0022-0100				
2	SUMP POT	1	0415-0017-1000				
3	SWITCH COVER	1	0415-0016-1000				
4	COVER, SUMP POT	1	0415-0010-1000				
5	GUIDE, OPERATING FLOAT	1	0415-0011-1000				
6	PUMP HOUSING	1	0625-0002-1000				
7	COVER, PUMP HOUSING	1	0625-0013-1000				
8	GASKET, PUMP HOUSING	1	0625-0007-1000				
9	IMPELLER	1	0625-0001-1000				
10	OPERATING FLOAT & ROD ASS'Y	1	0415-0004-0100				
11	SAFETY FLOAT & ROD ASS'Y	1	0415-0029-0100				
12	MERCURY TUBE	1	0620-0024-0100				
13	TILT LEVER, MERCURY TUBE	1	0410-0022-1000				
14	BRACKET, MERCURY TUBE	1	0415-0013-1000				
15	PIVOT BUSHING, MERCURY TUBE	1	0620-0025-1000				
16	RETAINING RINGS, FLOAT RODS	3	0410-0007-1000				
17	SAFETY SWITCH	1	0415-0026-1000				
18	TERMINAL BOARD	1	0415-0012-1000				
19	PLASTIC DISCHARGE TUBE	1	0415-0003-0000				
20	1/4 X 1/4 CONNECTOR	1	0415-0041-1000				
21	PUMP CONNECTING BODY	1	0625-0025-1000				

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

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.

