

June 17, 1997

MECHANICAL SPECIFICATIONS

EVAPCO SST-LINE COOLING TOWERS

PROJECT: DSC COMMUNICATIONS UNIT: (1) SST8-612B COOLING TOWER  
CUSTOMER: DSC COMMUNICATIONS P.O.#: C22654D20  
EVAPCO SERIAL NUMBER: 975034M ENGINEER: \_\_\_\_\_

UNIT TYPE Factory assembled, induced draft, counterflow cooling tower.

CONSTRUCTION Entire cold water basin steel components made from Type 304 Stainless Steel. The casing shall consist of a Stainless Steel structure and frame with a Stainless Steel mechanical equipment support. Casing panels and fan deck shall be constructed of heavy duty Fiberglass-Reinforced Polyester (FRP). Fiberglass construction consists of UV resistant color impregnated isophthalic resin.

MAKE-UP FLOAT VALVE ASSEMBLY\* Brass float valve with adjustable plastic float ball.

PAN STRAINER\* All type 304 Stainless Steel construction with large area removable perforated screens.

ACCESS Fiberglass-Reinforced Polyester access doors in the upper casing for fan drive and water distribution system access. Removable louver panels on all four sides of the unit for pan access.

FANS Fans are axial propeller type constructed of aluminum alloy and statically balanced. The fan is installed in a closely fitted Stainless Steel cowl with venturi air inlet. Fan screens are Stainless Steel and have Stainless Steel frames bolted to the fan cowl.

FAN SHAFT Solid shaft of ground and polished steel. Exposed surface coated with rust preventative.

FAN SHAFT BEARINGS Heavy-duty, self-aligning ball type bearings with extended lubrication lines to grease fittings on the exterior casing. Bearings are designed for a minimum L-10 life of 75,000 hours.

FAN MOTOR Totally enclosed, ball bearing type electric motor with 1.15 service factor suitable for outdoor service. The motor is mounted externally on the unit with an adjustable motor base and hinged protective cover.

FAN DRIVE The fan drive is a multi-groove, solid back, reinforced neoprene V-belt type with taper lock sheaves designed for 150% of the motor nameplate horsepower. Fan sheave is constructed of aluminum alloy. The motor sheave is external to the unit for dry operation.

FILL Polyvinyl Chloride (PVC) of cross-fluted design. PVC sheets are bonded together for strength and durability. Fill is self-extinguishing for fire resistance, has a flame spread of 5 under A.S.T.M. designation E-84-81a, and is resistant to rot, decay and biological attack.

WATER DISTRIBUTION SYSTEM Precision molded ABS spray nozzles with large 3/8" x 1" orifice to eliminate clogging. Spray header and branches are Polyvinyl Chloride (PVC) for corrosion resistance with Stainless Steel connection to attach external piping.

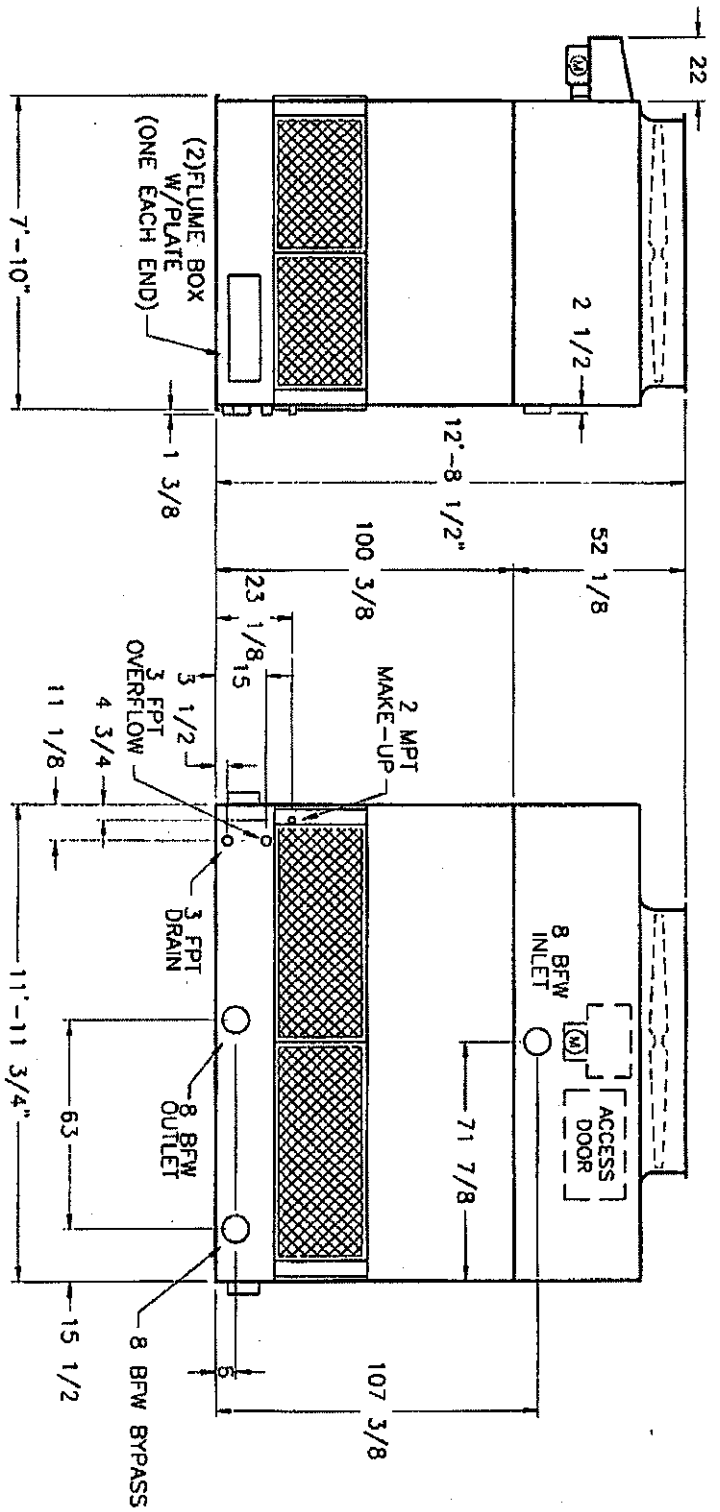
ELIMINATORS The eliminators are constructed entirely of Polyvinyl Chloride (PVC) in easily handled sections. Design incorporates three changes in air direction and limits the water carryover to a maximum of 0.001% of the circulating water rate.

LOUVERS The louvers are constructed from Polyvinyl Chloride (PVC) and are mounted in easily removable frames for access to the pan for maintenance. There are two changes in air direction to prevent splash-out and block direct sunlight.

\* OMITTED ON UNITS FOR REMOTE SUMP OPERATION

8 FT BELT DRIVE

900



- NOTES:
1. (M) - FAN MOTOR LOCATION
  2. MAKE-UP WATER PRESSURE 20PSI MIN, 50PSI MAX.
  3. 3/4" DIA. MOUNTING HOLES, REFER TO RECOMMENDED STEEL SUPPORT DRAWING.
  4. HEAVIEST SECTION IS LOWER SECTION.
  5. BFW DENOTES BEVELED FOR WELDING. FPT DENOTES FEMALE PIPE THREADS. MPT DENOTES MALE PIPE THREADS.

WEIGHTS		NO. SHIPPING SECTIONS
SHIPPING	OPER.	
5240	8850	2

MODEL NUMBER: (1) SST8-612B COOLING TOWER  
 CERTIFIED FOR: DSC COMMUNICATIONS PROJECT: DSC COMMUNICATIONS  
 CUSTOMER ORDER NO. C22654D20 EVAPCO NO. 975034M  
 CAPACITY 780 GPM OF WATER G.P.M. 95 ° IN 85 ° OUT 78 ° E.W.B.  
 FAN MOTOR HP (1) 15 (INVERTER DUTY) ELEC. SPEC. 460/60/3  
 INLET PRESSURE 1.6 P.S.I.G. DRIVE SIZED FOR 0" ESP  
 REMARKS: UNIT TO BE FURNISHED WITH (2) 4 KW PAN HEATERS, 460/60/3, WITH COMBINATION THERMOSTAT AND LOW WATER CUTOFF, (1) LADDER WITH 3 FOOT EXTENSION, (2) FLUME PLATES, (2) FLUME BOXES, AND (1) BYPASS CONNECTION.



COOLING TOWER

6/19/97 JMR  
 TA08124BERC-55