

Replacement Parts Identification

Induced Draft Products

1 FAN SCREENS

The fan screens are galvanized steel mesh.

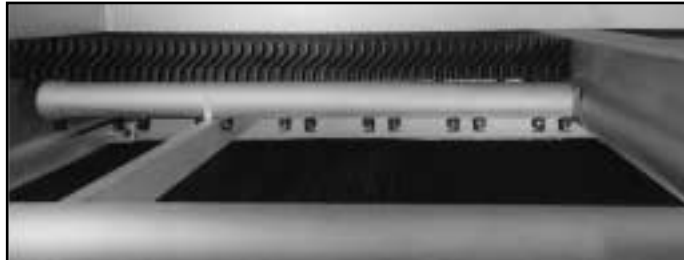


2 FANS

The axial propeller type fans are constructed of an aluminum alloy and statically balanced. The fan is installed in a closely fitted galvanized steel cowl with venturi air inlet.

3 DRIFT ELIMINATORS

The eliminators are constructed entirely of Polyvinyl Chloride (PVC) in easily handled sections. The design incorporates three changes in air direction and limits the water carry-over to a minimum of 0.001% of the circulating water rate. The light weight PVC eliminators are easily removed for access to the water distribution system.

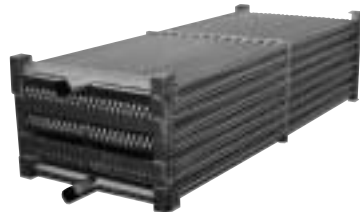


4 WATER DISTRIBUTION SYSTEM

The spray headers and branches are constructed of Schedule-40, Polyvinyl Chloride pipe for corrosion resistance. The water is distributed by precision molded ABS spray nozzles with large orifice openings to eliminate clogging. Nozzles are threaded into the spray header to provide easy removal for maintenance.

5 COIL

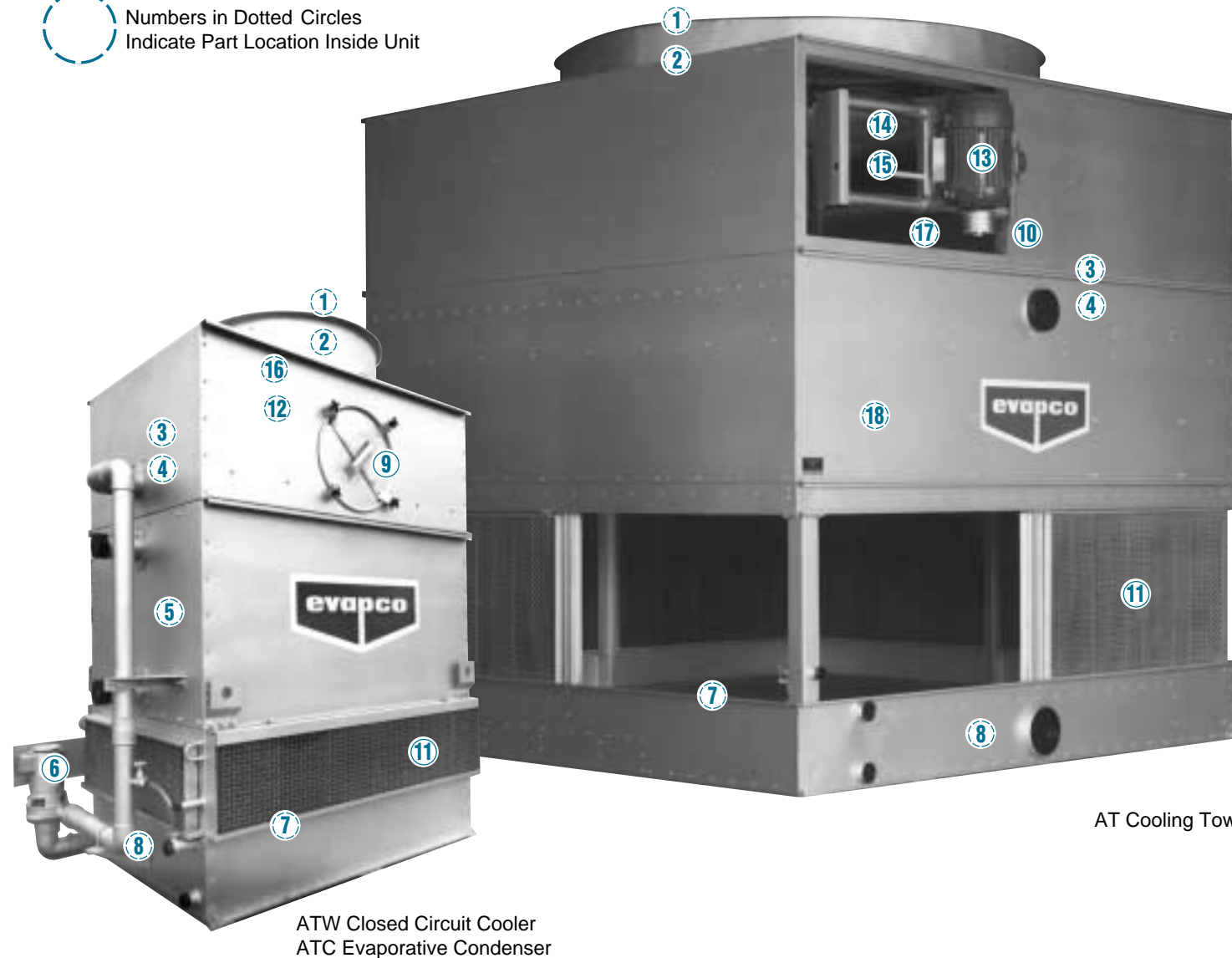
The patented Thermal-Pak coil is all prime surface steel, encased in steel framework with the entire assembly hot-dip galvanized after fabrication. It is designed with sloping tubes for liquid drainage. Finally, the assembled coil is air pressure tested under water in accordance with the "Pressure Equipment Directive" (PED) 97/23/EC. The Thermal-Pak design results in maximum heat transfer efficiency and minimum pressure drop.



6 WATER RECIRCULATION PUMP

Closed circuit coolers and evaporative condensers are supplied with a vertically installed closed-coupled centrifugal pump with a mechanical seal installed to drain on shut down. The totally enclosed, fan cooled (TEFC) motor is provided with a protective canopy as standard.

Numbers in Dotted Circles Indicate Part Location Inside Unit

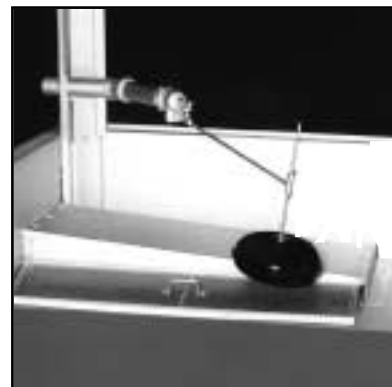


ATW Closed Circuit Cooler
ATC Evaporative Condenser

AT Cooling Tower

7 MAKE-UP FLOAT VALVE ASSEMBLY

This assembly contains a brass float valve with an adjustable plastic float. The supply of makeup water entering the unit is easily regulated by adjusting wing nuts on the threaded float rod.



8 PAN STRAINER

The type 304 stainless steel strainer is constructed with large removable perforated screens to reduce the need for frequent servicing.

ACCESS DOORS

9 Direct Drive - Hot-dip galvanized steel circular access door(s) are in the upper casing for easy access to the fan motor and water distribution system.

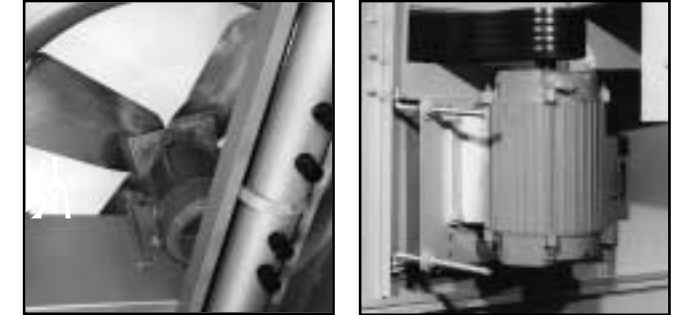
10 Belt Drive - Hot-dip galvanized steel rectangular access door(s) are in the upper casing for easy access to the fan drive and water distribution system.

11 LOUVERS

The light weight louvers are constructed from Polyvinyl Chloride (PVC) and are easily removed by simply removing two fasteners on the louver assembly. Louvers are located on all 4 sides the unit, thus providing easy pan access from 360 degrees. The two-pass design effectively eliminates splashout, keeps debris out of the pan and blocks out sunlight, thereby reducing the potential for algae formation and costly water treatment programs.

FAN MOTOR

12 Direct Drive - Totally enclosed, fan cooled, ball bearing type.



Belt Drive - Totally enclosed, fan cooled (TEFC) ball bearing type electric motors are suitable for outdoor service. The motor is mounted externally on the unit with an adjustable motor base for ease of service. A hinged protective cover shields the motor and sheave from the weather. (See front cover for picture).

13 Belt Drive - Totally enclosed, air over, ball bearing type electric motors are standard. The motor is mounted on an adjustable base allowing the motor to swing to the outside of the unit for easy servicing.

14 FAN SHAFT

All belt driven units have a solid shaft of ground and polished steel. The exposed surface is coated with a rust preventative.

15 FAN SHAFT BEARINGS

All belt driven units have heavy-duty self-aligning ball type bearings with grease fittings extended to the outside of the unit. Bearings are designed for an L-10 life of 75,000 to 135,000 hours, making them the heaviest duty pillow block bearings available for cooling tower duty.



FAN DRIVE

16 Direct Drive - The fan is mounted directly on the motor in a direct drive configuration.

17 Belt Drive - The fan belt is a multi-groove, solid back, reinforced neoprene V-belt

type with taper lock pulleys designed for 150% of the motor nameplate kilowatts. The fan pulley is constructed of an aluminum alloy. The fans & fan pulleys are mounted on the shaft with a special cadmium plated bushing for maximum corrosion protection. Belt adjustment is easily accomplished from the exterior of the unit.

18 FILL

The Polyvinyl Chloride (PVC) fill with a cross-fluted design provides maximum heat transfer efficiency. The PVC sheets are bonded together for strength and durability. The fill is self-extinguishing for fire resistance and has a flame spread rating of 5 per ASTM E 84-819. It is also resistant to rot, decay and biological attack.

