

# Induced Draft Products

## Replacement Parts

for Cooling Towers, Closed Circuit Coolers  
and Evaporative Condensers

Factory Authorized Parts  
Quick Shipment



**Mr. GoodTower®**  
Evapco Service

### Recommended Annual Maintenance Checklist

To ensure your equipment's optimum performance and trouble-free operation, EVAPCO offers a Unit Inspection.

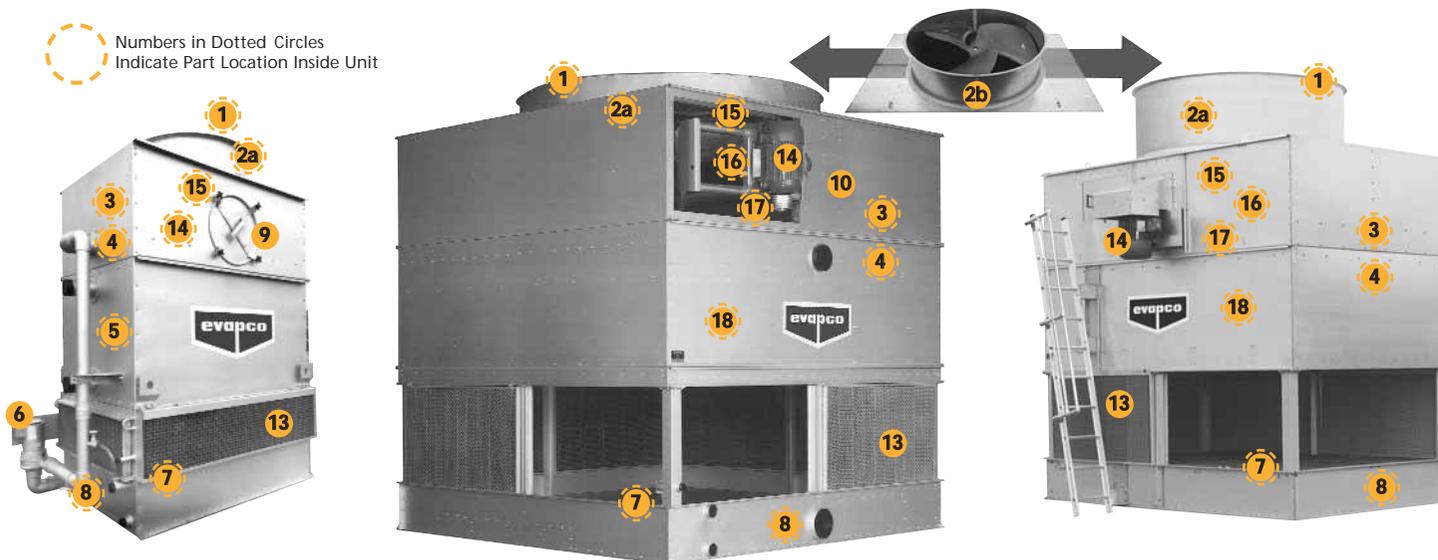
Regardless of the equipment manufacturer, an EVAPCO representative will perform a Unit Inspection as outlined in the column below.

This Inspection combined with regular service & maintenance will insure your equipment's peak efficiency and long service life.

Call your local EVAPCO Service Center to schedule your Unit Inspection today!

- Check pan strainer for cleanliness
- Check water basin for cleanliness
- Check bleed-off valve
- Check water make-up float valve and ball
- Check water distribution system and sprays
- Check fan belts for wear and tension
- Check fan screens for debris
- Check fans and lubricate bearings as per manufacturer's instructions
- Check drift eliminators for proper position
- Inspect protective finish, paint if necessary
- Check water quality. Contact a water treatment company for recommended water treatment program
- Contact your local EVAPCO Service Center for replacement parts

Numbers in Dotted Circles  
Indicate Part Location Inside Unit



# Replacement Parts Identification

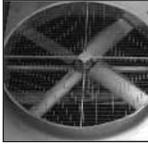
## Induced Draft Products

### 1 FAN SCREENS

The fan screens are galvanized steel mesh.

### 2a 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.



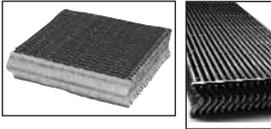
### 2b SUPER LOW SOUND FANS

The Super Low Sound Fan offered by EVAPCO utilizes an extremely wide chord blade design available for sound sensitive applications



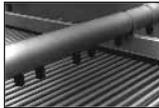
### 3 ELIMINATORS

The eliminators are constructed of inert polyvinyl chloride that has been specially treated to resist UV degradation. Assembled in easily handled sections, the eliminators shall incorporate three changes in air direction to assure removal of entrained moisture from the discharge airstream. The maximum drift rate shall not exceed 0.001% of the recirculated water rate.



### 4 WATER DISTRIBUTION SYSTEM

The spray header and branches shall be constructed of PVC (Polyvinyl Chloride) pipe for corrosion resistance. The internal tower water distribution system piping shall be removable for cleaning and have threaded end caps to allow debris to be removed. The water is distributed by precision molded ABS spray nozzles which are threaded into the spray header to provide easy removal for maintenance.



### 5 COIL

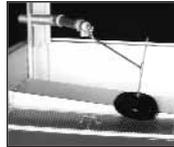
Condensing coil(s) shall be all prime surface steel, encased in a steel framework and hot-dip galvanized after fabrication as a complete assembly. The tubes shall be arranged in a self-spacing, staggered pattern in the direction of airflow for maximum heat transfer efficiency and minimum pressure drop, without the use of additional spacers between the coil tubes. The coil(s) shall be designed with sloping tubes for free drainage of liquid refrigerant and air pressure tested under water in accordance with the "Pressure Equipment Directive" (PED) 97/23/EC.

### 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.

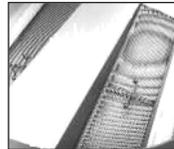
### 7 MAKE-UP FLOAT VALVE ASSEMBLY

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.



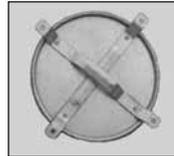
### 8 PAN STRAINER

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



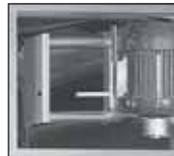
### 9 ACCESS DOORS - Direct Drive

Hot-dip galvanized circular door(s) provide easy access to the Fan Section.



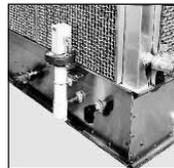
### 10 ACCESS DOORS - Belt Drive

Hot-dip galvanized rectangular door(s) provide easy access to the Fan Section.



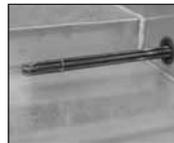
### 11 ELECTRIC LEVEL CONTROL

An optional electric water level control and solenoid valve is available as optional in place of the mechanical make up valve.



### 12 BASIN HEATER PACKAGE

The electric basin heater packages are available to help prevent freeze-up of the basin water. The packages include electric heater elements with thermostat and low water cutoff.



### 13 LOUVERS

The light weight louvers are constructed from Polyvinyl Chloride (PVC) and are easily removed by simply removing two fasteners on the louver assembly. The two-pass design effectively eliminates splash-out, keeps debris out of the pan and blocks out sunlight, thereby reducing the potential for algae formation and costly water treatment programs.



### 14 FAN MOTOR - Direct Drive 4' & 8' units

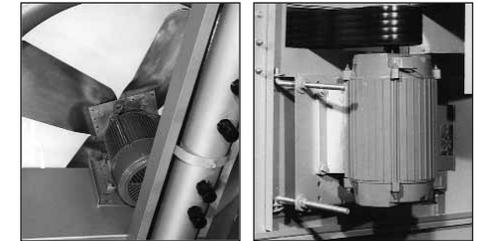
Totally enclosed air over (T.E.A.O.) ball bearing fan motor(s)

### - Belt Drive 8' units

totally enclosed fan cooled (T.E.F.C.) ball bearing fan motor

### - Belt Drive 10', 12', 20' & 24' units

totally enclosed air over (T.E.A.O.) ball bearing fan motor(s)

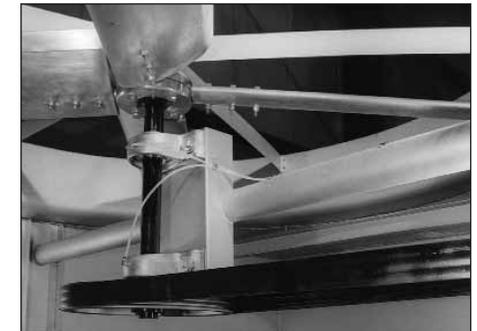


### 15 FAN SHAFTS

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

### 16 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.



### 17 BELT DRIVES

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 cooling tower fill shall be PVC (Polyvinyl Chloride) of cross-fluted design for optimum heat transfer and efficiency. The cross-fluted sheets shall be bonded together for strength and durability. The fill shall have special drainage tips to allow high water loading and low pressure drop. The PVC fill shall be self-extinguishing for fire resistance with a flame spread rating of 5 per ASTM E84-81a. It shall also be resistant to rot, decay or biological attack.

