



**PERFORMANCE AND MECHANICAL SPECIFICATIONS**

**EVAPCO® INDUCED DRAFT CLOSED CIRCUIT COOLER**

<b>PROJECT:</b> _____	
<b>CUSTOMER:</b> _____	
<b>ENGINEER:</b> _____	
<b>UNIT: (3) ATW 672-5M Closed Circuit Coolers</b>	
<b>CUSTOMER P.O.</b> _____	<b>EVAPCO SERIAL NO.</b> <u>7-315810-315812</u>
<b>CAPACITY:</b> <u>Each Unit 5333.3 GPM OF WATER</u>	<u>95 °F IN</u> <u>85 °F OUT</u> <u>58 °F E.W.B.</u>
<b>DRY OPERATION:</b> <u>Each Unit GPM OF WATER</u>	<u>95 °F IN</u> <u>85 °F OUT</u> <u>7 °F E.D.B.</u>
<b>FAN MOTOR:</b> <u>Each Unit (4) 30 HP</u>	<b>ELEC. SPEC.</b> <u>460/3/60</u>
<b>PUMP MOTOR:</b> <u>(4) 5 HP</u>	<b>ELEC. SPEC.</b> <u>460/3/60</u>
<b>COIL PRESSURE DROP:</b> <u>11.1 PSIG</u>	<b>DRIVES SIZED FOR 0" ESP.</b>

- |                                      |  |
|--------------------------------------|--|
| <b>UNIT TYPE</b>                     | <b>Factory assembled, induced draft, counterflow.</b>  |
| <b>CONSTRUCTION</b>                  | <b>Heavy gauge mill hot-dip galvanized steel casing and pan. Hot-dip galvanized steel channel and angle supports. All galvanized steel is coated with a minimum of 2.35 ounces of zinc per square foot of area (G-235 designation). During fabrication, all panel edges are coated with a 95% pure zinc-rich compound.</b> |
| <b>MAKE UP FLOAT VALVE ASSEMBLY*</b> | <b>Brass float valve with adjustable plastic float.</b>  |
| <b>PAN STRAINER*</b>                 | <b>All type 304 stainless steel construction with large area removable perforated screens.</b>   |
| <b>ACCESS</b>                        | <b>Sliding door in the upper casing for fan drive and water distribution system access. Removable louver panels on all four sides of the unit for pan and sump access.</b>   |
| <b>BLEED-OFF*</b>                    | <b>Waste water bleed line with adjustable valve provided.</b>  |
| <b>PUMP*</b>                         | <b>Close-coupled centrifugal pump with mechanical seal. The pump is installed in a vertical position so that water will drain from the pump when the cold water basin is emptied. Pump motor is totally enclosed with protective canopy for outdoor operation.</b>   |
| <b>FAN SHAFT</b>                     | <b>Solid shaft of ground and polished steel. Exposed surface coated with rust preventative.</b>  |

<b>FAN SHAFT BEARINGS</b>	<b>Heavy-duty, self aligning ball type bearings with extended lubrication lines to grease fittings on the access door frame. Bearings are designed for a minimum L-10 life of 75,000 hours.</b>
<b>FANS</b>	<b>Fans are axial propeller type constructed of aluminum alloy and statically balanced. The fan is installed in a closely fitted galvanized steel cowl with venturi air inlet. Fan screens are galvanized steel mesh and have galvanized steel frames bolted to the fan cowl.</b>
<b>FAN MOTOR</b>	<b>Totally enclosed, ball bearing type electric motor(s) suitable for moist air service. Motor(s) are 1.15 service factor design. Motors are mounted on an adjustable base allowing the motor to swing to the outside of the unit for servicing.</b>
<b>FAN DRIVE</b>	<b>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 and motor sheaves are constructed of aluminum alloy. The fans and fan sheaves shall be mounted on the shaft with a special coated bushing for maximum corrosion protection.</b>
<b>COIL</b>	<b>Thermal-Pak coil design of prime surface steel and carbon steel fins encased in steel framework with entire assembly hot-dip galvanized after fabrication. Designed with sloping tubes for liquid drainage and tested to 400 psig air under water.</b>
<b>WATER DISTRIBUTION SYSTEM</b>	<b>Heavy-duty molded nylon ZM spray nozzles with large 1-5/16" diameter opening and internal sludge ring to eliminate clogging. ZM nozzles are threaded into Schedule-40 Polyvinyl Chloride headers equipped with removable end plugs for ease of cleaning.</b>
<b>ELIMINATORS</b>	<b>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.</b>
<b>AIR INLET LOUVERS</b>	<b>The air inlet louvers are constructed from UV inhibited polyvinyl chloride (PVC) and incorporate a framed interlocking design that allows for easy removal of louvers for access to the entire basin area for maintenance. The louvers have a minimum of two changes in air direction and are of a non-planar design to prevent splash-out, block direct sunlight and debris from entering the basin. (Patent Pending)</b>
<b>*OMITTED ON UNITS FOR REMOTE SUMP OPERATION</b>	<b>ATW 12 FT. WIDE BELT DRIVE ATW12ST-ST</b>

**SPECIAL REMARKS:**

- **Unit provided with Vibration Cutout Switch(es), mounted (wiring and sensitivity adjustment by others).**
- **(1) in 150# RF flanged connections.**
- **Unit(s) provided with ladder(s).**
- **Extended surface coil for dry operation.**
- **Unit provided with Schedule 80 PVC Sump Sweeper piping consisting of one (1) inlet and one (1) outlet connection per pan section with high flow eductors.**
- **Unit Arranged with High Flow Coils.**