



Rigging and Assembly Instructions

ESWB CLOSED CIRCUIT COOLERS

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Method of Shipment

ESWB models are shipped with the top section(s) separate from the bottom section(s). These sections have mating flanges and will join together in a waterproof joint when sealed and bolted together as described in the following instructions. Miscellaneous items, such as sealer tape, bolt sets and any other required materials, are packaged and placed inside the pan for shipment.

For 8.5' wide units, the motors and drives are factory aligned and then shipped loose inside the basin section for mounting during installation. Refer to the "External Motor Installation" section in this bulletin.

Storage

Do not place tarps or other coverings over the top of the units if the units are to be stored before installation. Excessive heat can build up if the units are covered, causing possible damage to the PVC eliminators, louvers or fill. For extended storage beyond six months rotate the fan and fan motor shaft(s) monthly. Also, the fan shaft bearings should be purged and regreased prior to start-up.

International Building Code Provisions

The International Building Code (IBC) is a comprehensive set of regulations addressing the structural design and installation requirements for building systems – including HVAC and industrial refrigeration equipment. As of June 2008, all 50 states plus Washington D.C have adopted the International Building Code. The code provisions require that evaporative cooling equipment and all other components permanently installed on a structure must meet the same seismic design criteria as the building.

All items attached to the Evapco ESWB Closed Circuit Cooler must be independently reviewed and isolated to meet applicable wind and seismic loads. This includes piping, ductwork, conduit, and electrical connections. These items must be flexibly attached to the Evapco unit so as not to transmit additional loads to the equipment as a result of seismic or wind forces.

Structural Steel Support

Evapco recommends supporting the unit with two structural "I" beams that span the entire length of the unit*. These beams should be located underneath the outer flanges of the unit. (See Figure 1). Mounting holes, 3/4" in diameter, are located in the bottom flange for bolting to the structural steel (see certified print for exact bolt hole location). Bolt the bottom section to the steel support before rigging the top section.

Beams should be sized in accordance with accepted structural practices. Maximum deflection of the beam under the unit to be 1/360 of the unit length, not to exceed 1/2". Deflection may be calculated by using 55% of the operating weight as a uniform load on each beam (see certified print for operating weight).

The supporting "I" beams should be level before setting the unit. Do not level the unit by shimming between the bottom flange and the beams as this will not provide proper longitudinal support.

Support beams and anchor bolts are to be furnished by others. Always refer to certified print for unit weights, dimensions and technical data.

Note: Consult IBC for required steel support layout and structural design.

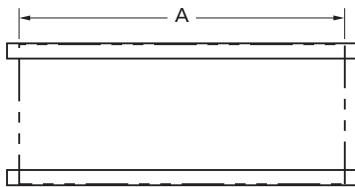


Figure 1A
Plan Views

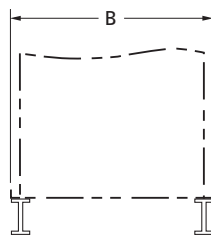


Figure 1B
End Elevations

Unit Footprint	A	B
8.5' x 6'	8' 5-1/2"	5' 11-7/8"
8.5' x 9'	8' 11-1/2"	8' 5-1/2"
8.5' x 12'	11' 11-3/4"	8' 5-1/2"
8.5' x 18'	18' 0"	8' 5-1/2"
12' x 12'	11' 11-3/4"	11' 10"
12' x 18'	18' 0"	11' 10"

Table 1 – ESWB Supporting Steel Dimensions

* The Engineer of Record is ultimately responsible for the steel support design and may require additional cross beams based on loads.

Rigging the Bottom Section: Standard Lift

Lifting devices are located in the lower corners of the unit as shown in Figures 2 and 3. The hook of the crane must be a minimum dimension of “H” above the lift point to prevent undue strain on the lifting devices.

See Table 2 for the minimum “H” dimension. Bolt the bottom section to the steel support before rigging the top section of the unit.

The unit lifting devices should not be used for extended lifts or where any hazard exists unless safety slings are employed under the section.

Basin Section Length	Min. “H” Dim. (above coil)
8.5 Feet	7 Feet
9 Feet	7 Feet
12 Feet	10 Feet
18 Feet	12 Feet

Table 2 – Minimum “H” Dimension for Basin Sections

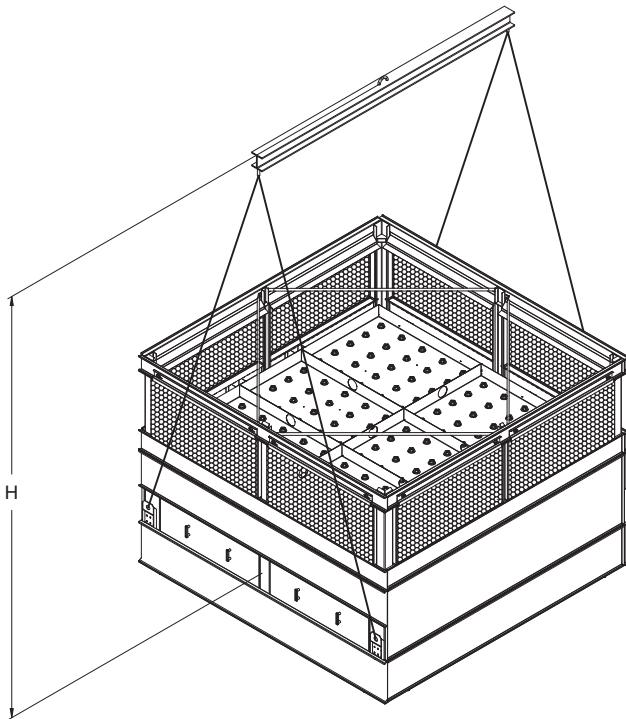


Figure 2 – ESWB Bottom Section
4 point rig

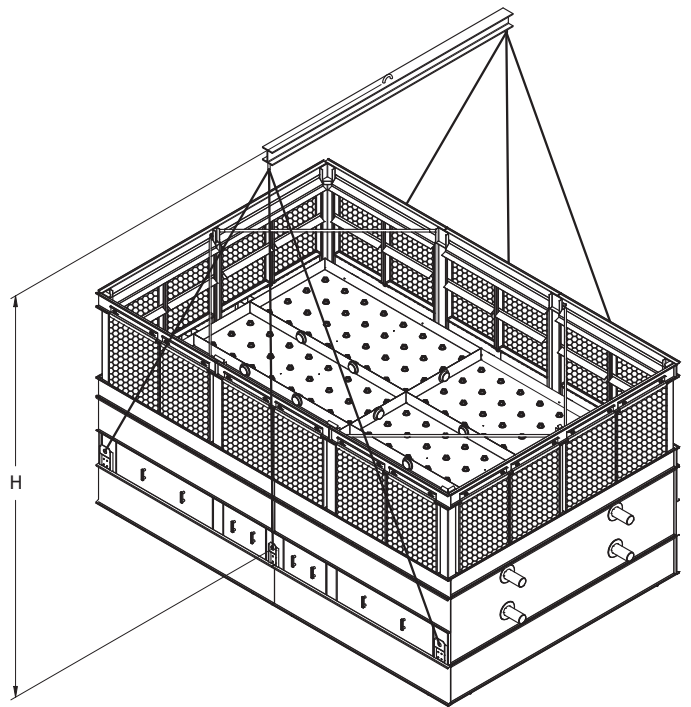


Figure 3 – ESWB Bottom Section
(all 18' long) 6 point rig

Important: The lifting devices should be used only for lifting where no danger exists and for final positioning of the section. For extended lifts, safety slings should be provided under the section.



Rigging the Bottom Section: Extended Lifts

The preferred method for extended lifts is to use slings under the unit as shown in Figures 4 and 5. Spreader bars should always be used between the cables at the top of the section to prevent damage to the upper portion of the basin. Safety slings and skids should be removed before final positioning of the unit. See Table 2 on page 3 for minimum "H" dimensions.

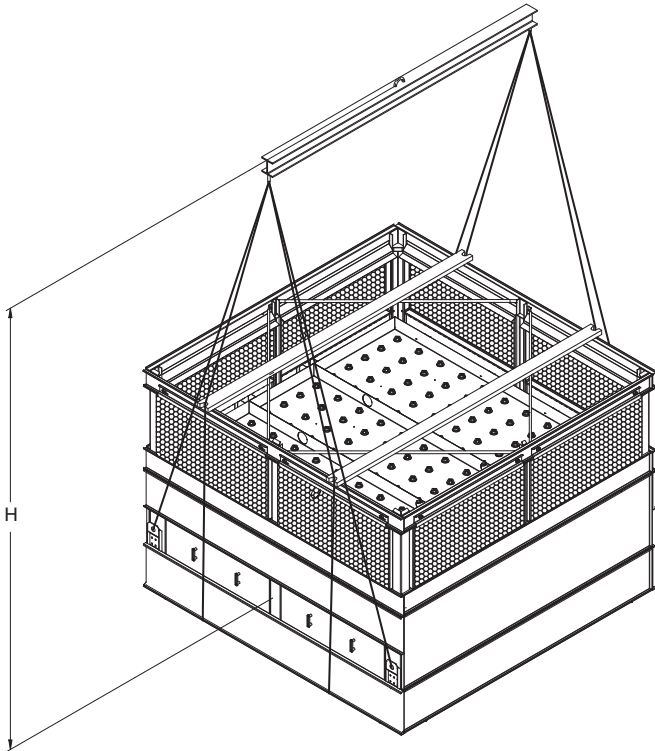


Figure 4 – Proper Rigging Method for Extended Lifts

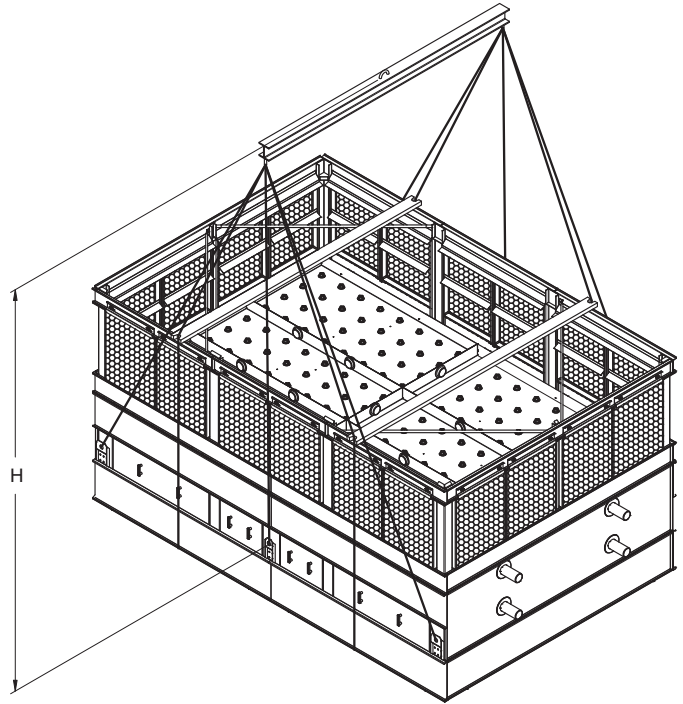


Figure 5 – Proper Rigging Method for Extended Lifts
(all 18' long)

Applying Sealer Tape

Once the bottom section has been set on the supporting steel and bolted in place, the top flanges should be wiped down to remove any dirt or moisture. Sealer tape should be placed over the mounting hole centerline on the side flanges. Apply two strips of sealer tape, one partially overlapping the other, on the end flanges.

The sealer tape should overlap on the corners as shown in Figure 6. Never splice the sealer tape along the end flanges and preferably not on the side flanges if it can be avoided. **Always remove the paper backing from the sealer tape. Cut off any extra sealer tape.**

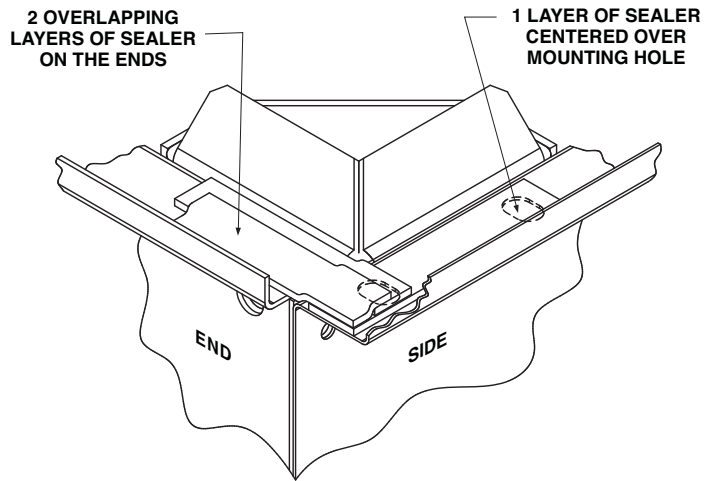


Figure 6 – Proper Sealer Tape Application

Rigging the Top Section: Standard Lift

“U” bolts are provided in the four corners of the top section for lifting and final positioning (See Figure 7). The hook of the crane must be a minimum dimension “H” above the top of the section being lifted to prevent undue strain on the “U” bolts. This dimension varies with the type of fan that is installed in the unit. See Table 3 for the minimum “H” dimension.

Box Size	Minimum “H” Dim. (above fan deck)	
	Standard Fan	Super Low Sound Fan
8.5 x 6 Feet	7 Feet	8 Feet
8.5 x 9 Feet	9 Feet	12 Feet
8.5 x 12 Feet	12 Feet	12 Feet
8.5 x 18 Feet	17 Feet	20 Feet
12 x 12 Feet	12 Feet	15 Feet
12 x 18 Feet	17 Feet	19 Feet

Table 3 – Minimum “H” Dimension for Top Sections

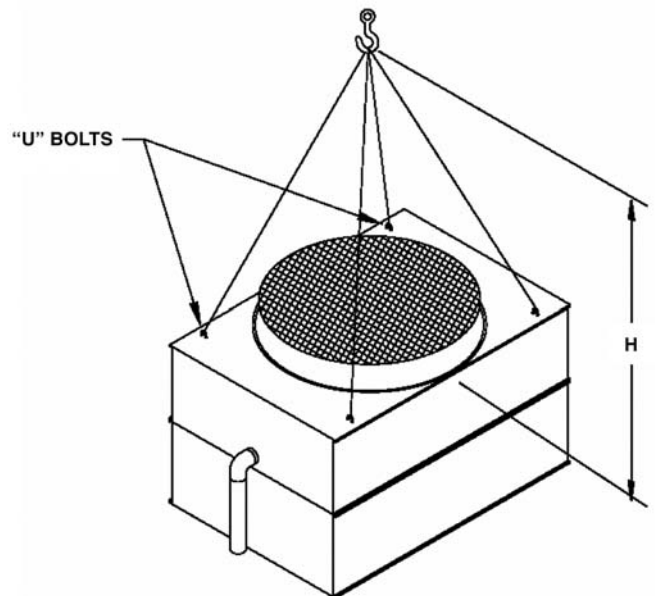


Figure 7 – ESWB Top Section

Important: The “U” Bolts should be used only for lifting where no danger exists and for final positioning of the section. For extended lifts, safety slings should be provided under the section.



Rigging the Top Section: Extended Lifts

The preferred method for extended lifts is to use slings under the unit as shown in Figure 8. Spreader bars should always be used between the cables at the top of the section to prevent damage to the upper flanges or fan cylinder. Safety slings and skids should be removed before final positioning of the unit. See Table 3 on page 5 for minimum “H” dimensions.

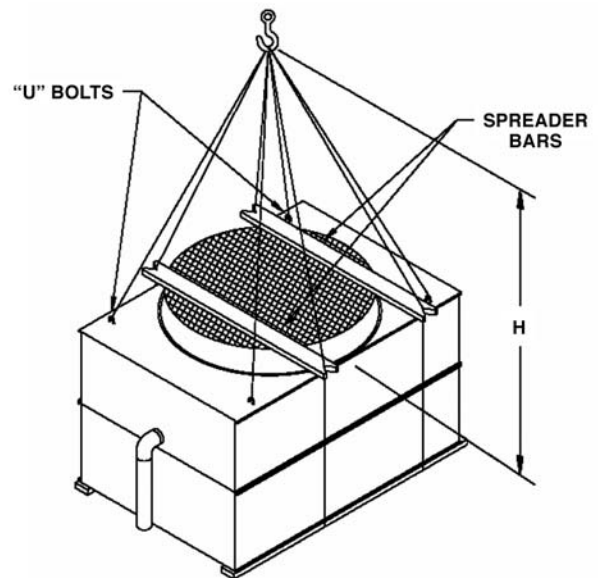


Figure 8 – Proper Rigging Method for Extended Lifts

Assembly of the Top Section to the Bottom Section

Before assembling the top section to the bottom section, remove any loose parts shipped in the pan. Apply sealer tape as shown in Figure 6 on page 5.

Wipe the flanges on the bottom of the top section. Check to see that the water distribution connection on the top section is in the correction position relative to the bottom section (see certified unit drawing). Units are also provided with match markings on each section (i.e. A1 of bottom section should match up with A1 of top section).

Lower the top section to within several inches of the bottom section making sure the two sections do not touch and the sealer tape is not disturbed. Using suitably sized drift pins to assure proper alignment, lower the top section down onto the bottom section.

Place nuts and bolts in all four corner bolt holes. Then continue to install the rest of the nuts and bolts working from the corners toward the center. Nuts and bolts must be installed in every hole on the side flanges although none are required on the end flanges. Cut off extra sealer tape once the section is bolted into place.

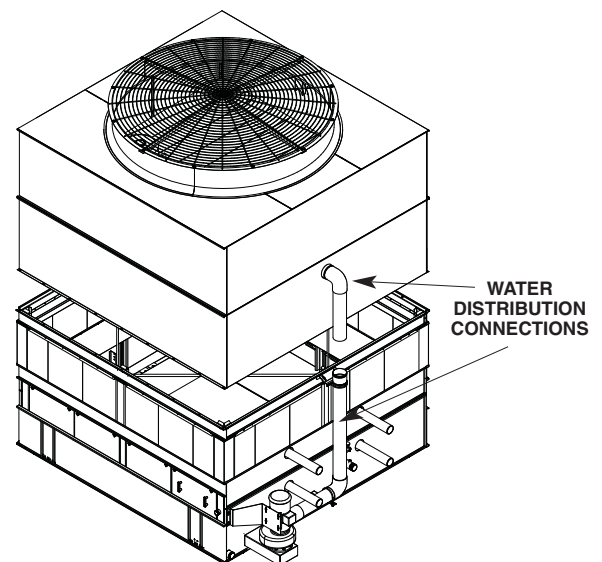


Figure 9 – Mating Upper Section to Bottom Section.

Mounting Fan Screens

Only 12' wide units will be shipped with the fan screens in the basin. Under these circumstances use the following procedures to mount the fan screen on the discharge cylinder.

WARNING: DO NOT WALK ON THE FAN SCREENS AT ANY TIME!

1. Lay both halves of the fan screen on the ground. Join the two screen halves with wire clips (Figure 10). There should be 4 wire clips on each side of the fan screen for 12' wide units. Space the wire clips evenly across the radius of the fan screen as shown in Figure 11.
2. The fan screen is supported from underneath by an "X" shaped support frame. Set the support frame across the top of the discharge cylinder (See Figure 12), and fasten to cylinder with 3/8" bolts.
3. Place the fan screen on top of the support frame and discharge cylinder. Each half will be tagged to match markings on the cylinder. Align the eyelets of the fan screen with the holes on the perimeter of the discharge cylinder.
4. At each hole, attach the fan screen to the discharge cylinder as shown in Figure 13.

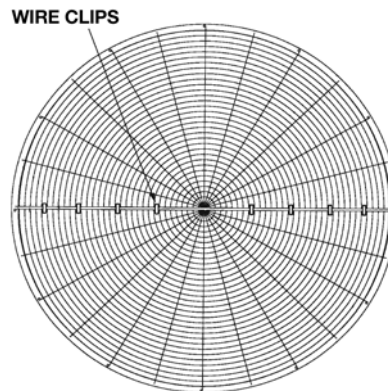


Figure 11 – Wire Clip Spacing

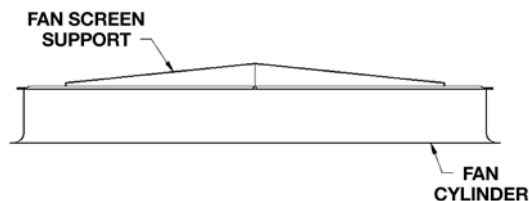


Figure 12 - Support Frame Installation

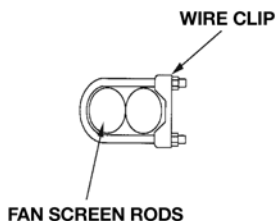


Figure 10 – Wire Clip Arrangement

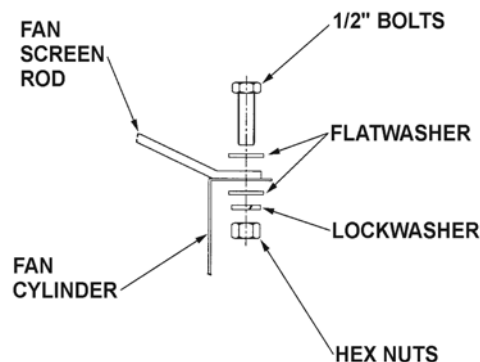
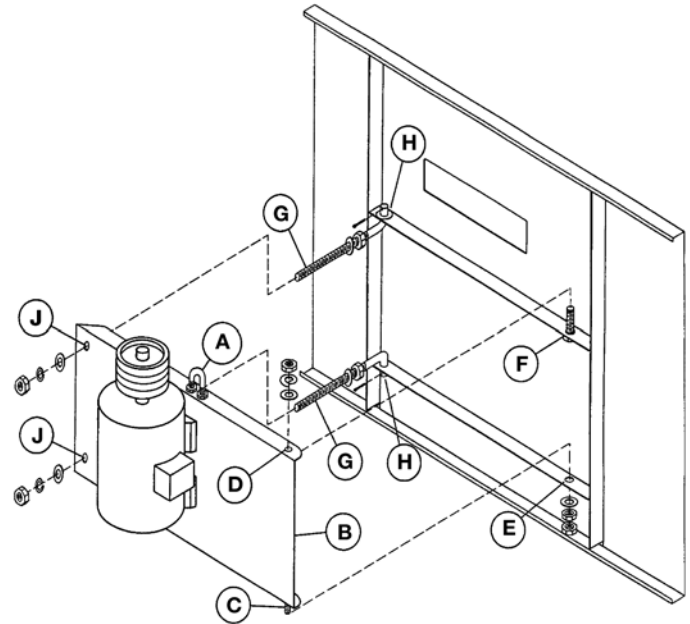
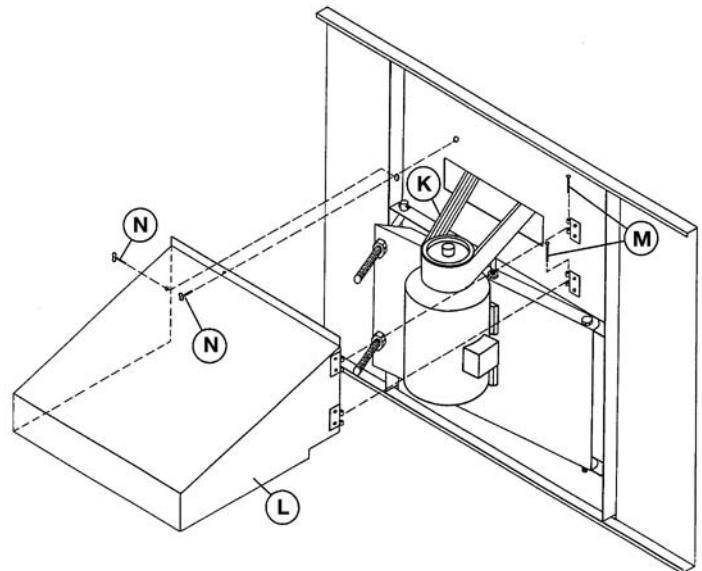
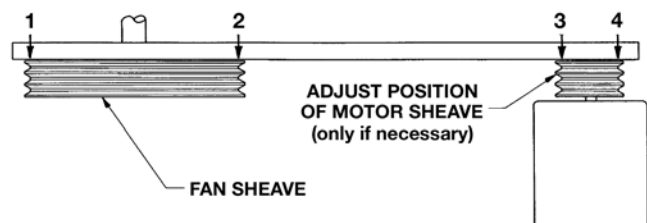


Figure 13 – Attaching Fan Screen to Cylinder

External Motor Installation (applicable to 8.5' wide models only)

8.5' Wide Models

1. Study Figure 14 before installing the motor base on the unit.
2. Insert the lifting device into "U" bolt **A** on motor base **B**.
3. Lift the motor base and insert the pivot pin **C** down into hole **E** and pivot pin **F** into hole **D**.
4. Install washer and nut (do not over tighten) on pivot pins. Install jam nut on pivot pin **C**.
5. Insert "J" bolts **G** into holes **H**. Install flat washers and cotter pins. Place nuts and washers on threaded portion of "J" bolts. These will be behind the motor base installed in the next step.
6. Insert "J" bolts into holes **J** in the motor base. Install flat washers, lock washer and nuts. Remove lifting device from the "U" bolt on the motor base. Position motor base toward casing of unit for belt installation.
7. Install Powerband belt **K** (Figure 15) around fan sheave and motor sheave. Tighten belt by adjusting nuts on "J" bolts. Do not over tighten the belts. The center of the belt should deflect approximately 3/4" with moderate hand pressure.
8. Measure to see that the top and bottom of the motor base are the same distance out from the casing of the unit. This should ensure that the sheaves are properly aligned as they have been pre-set at the factory.
9. As a final check, lay a straight edge from sheave to sheave. There should be four point contact (See Figure 16). Adjust the position of the motor sheave as necessary.
10. To install Motor Guard **L**, match up hinges and install hinge pins **M** (See Figure 15).
11. Close Motor Guard and install two (2) wing bolts **N**.


Figure 14 – External Motor Installation

Figure 15 – Motor Guard and Powerband Belt Installation

Figure 16 – Sheave Alignment Check

Optional Motor and Gear Box Davit

This accessory is available to aid in the removal of fan motors and gear boxes. The assembly consists of a davit and a mounting base/channel that is attached to the side of the unit next to the access door (Figure 17). Both of these items will ship loose in the unit's basin.

Use the following procedure to install the mounting channel:

1. Place the mounting channel on the factory-installed mounting brackets near the access door.
2. At each hole, attach the mounting channel to the bracket using 3/8" hardware as shown in Figure 18.

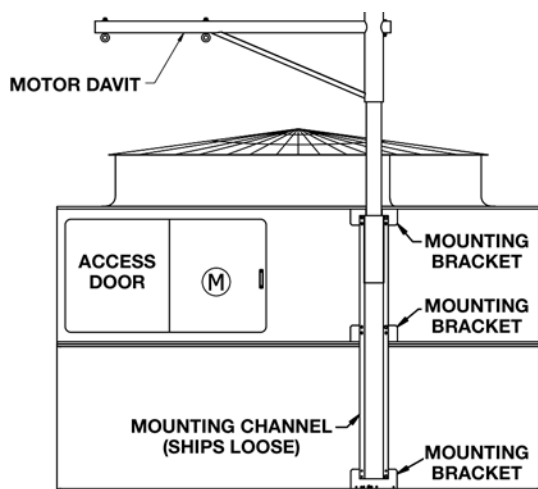


Figure 17 – Motor Davit

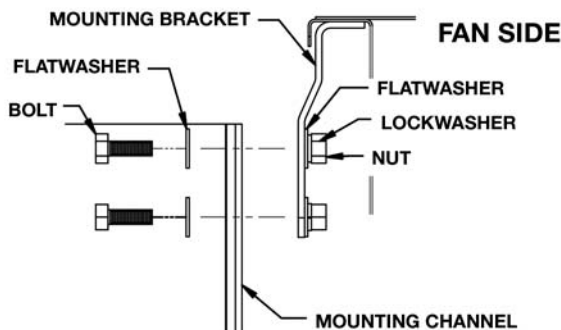


Figure 18 – Attaching Mounting Channel to Mounting Bracket

Optional Heater Package

This accessory is available to prevent the basin water from freezing during winter operation. The heater package consists of a heater, a low water cutout switch and a thermostat. The heater is installed at the factory. The low water cutout switch is shipped loose in the rigging box and will need to be screwed into the screw tight fitting installed in the unit. The thermostat is attached to the side of the unit at the factory. The bulbwell for the thermostat is shipped loose in the rigging box and will also need to be screwed into the screw tight fitting installed in the unit. See Figure 19 for heater package location diagrams.

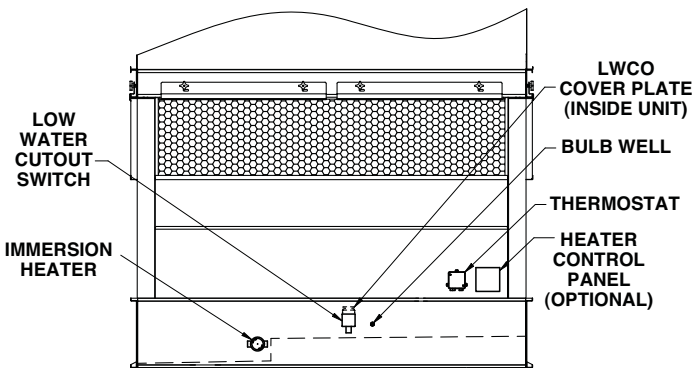


Figure 19 – Heater Component Location

Optional Sloped Ladders

When sloped ladders are supplied with a unit, they are shipped in the basin section, if there is room. One sloped ladder will be provided for each cell. Assembly is identical for each cell.

Sloped ladders are attached at a minimum of three points. Taller units will have four attachment points. At each point of attachment, the ladder will be fitted with a ladder bracket assembly. The ladder bracket assembly looks like a metal box and is shown in detail (component #4) in Figure 20 below. The upper two assembly brackets are factory mounted to the ladder and are not adjustable. These two brackets define the slope of

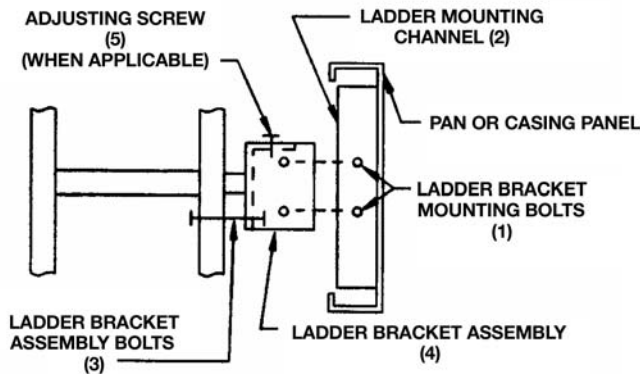


Figure 20 – Detail of Ladder, Ladder Bracket Assembly and Mounting Channel

the ladder. The lower brackets are adjustable. See Figures 21 and 22 for drawing of the final ladder assembly.

To install the ladder assembly, follow the steps outlined below which refer to Figure 20:

1. Remove the ladder bracket mounting bolts (1) from the ladder mounting channels (2) on pan and casing sections.
2. Loosen, but do not remove, the ladder bracket and assembly bolts (3).
3. Slide the ladder bracket assembly (4) over the ladder mounting channel (2) located on the unit panels. Do not remove the ladder bracket assembly (4) from the ladder.
4. Align the bolt holes and reinstall the ladder bracket mounting bolts (1) through the ladder bracket assembly and the ladder mounting channels (2).
5. Tighten all bolts.
6. Tighten the adjusting screw (5) in the adjustable mounting bracket where applicable.

NOTE: Upper Section of Unit Must Be Properly Oriented with Respect to Lower Section. All Mounting Brackets Must be on Same Side of Unit. Refer to Certified Print For Proper Orientation.

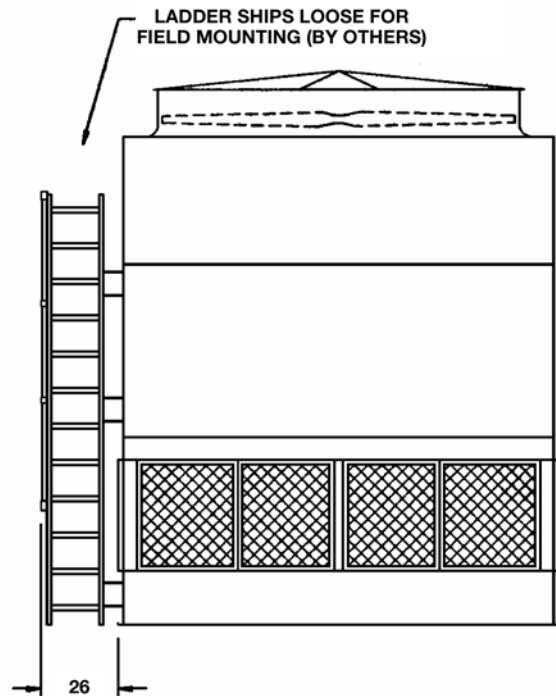


Figure 21 – End View of Ladder Assembly

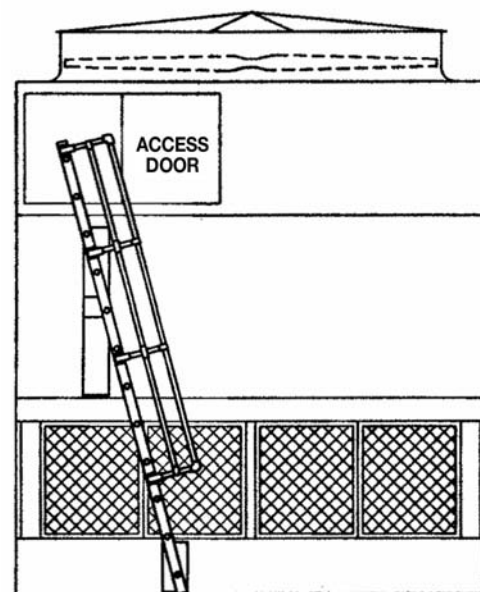


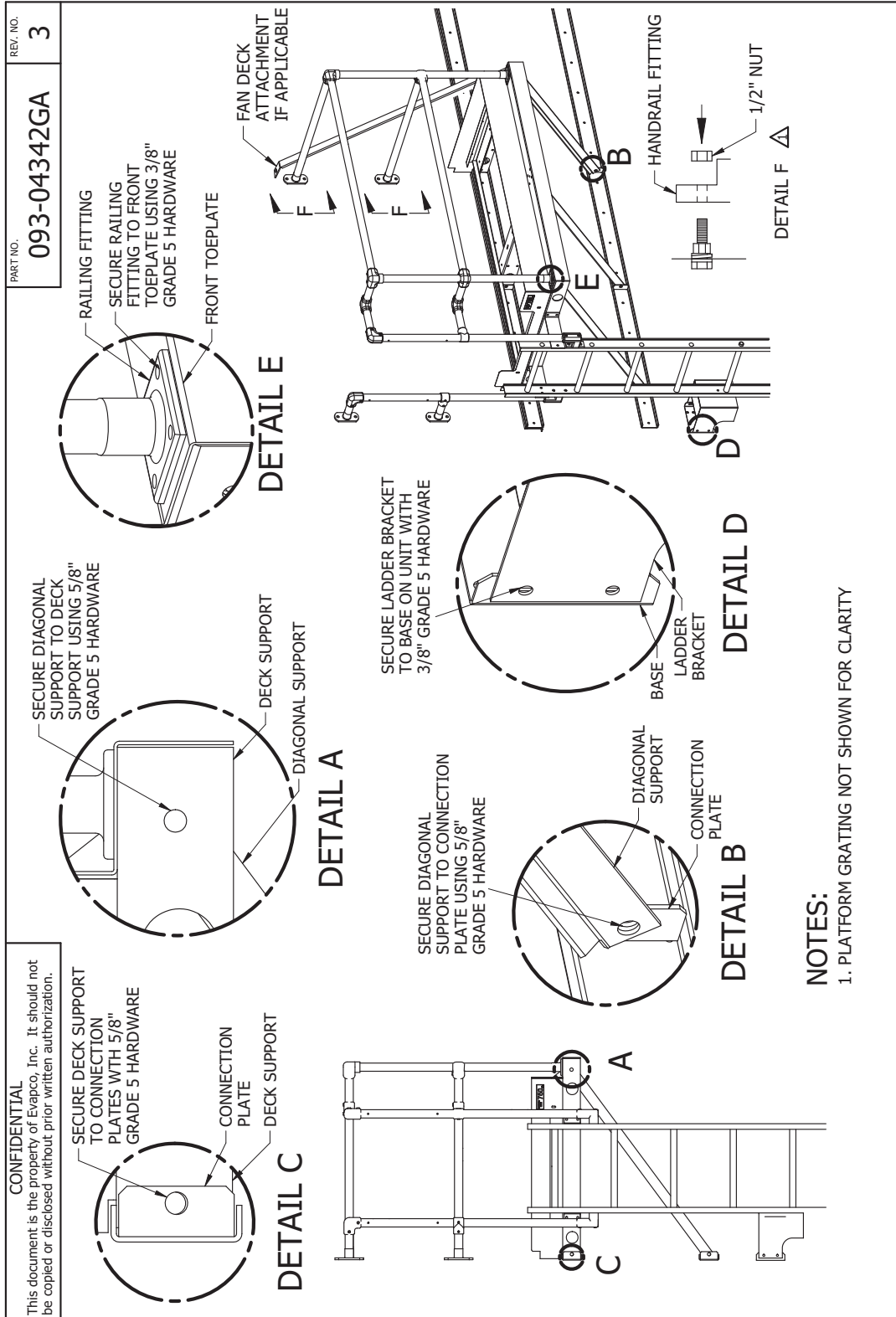
Figure 22 – Side View of Ladder Assembly



Optional Working Platform and Ladder

The working platform and ladder will either be shipped in the basin or shipped separately due to basin accessories that interfere with storage. The platform is partially assembled prior to shipment for minimal field assembly.

The platform and ladder assembly should be attached after the unit is fully rigged. Follow the instructions below.





General Information - Start-up & Maintenance Start-up Details Shipping Chocks and Debris

Remove any chocks that have been placed inside the unit for shipping purposes. Be sure to remove the chocks from between the fan and fan guard if applicable. Clean all debris from the basin prior to start-up. Clean and secure all access doors.

Pump Discharge Line

Connect the riser pipe from the pump discharge on the basin section to the riser pipe on the coil/fan section using the flexible connection and hose clamps provided.

Bleed-off Line

A bleed-off line and valve are installed on the unit when shipped with a pump. On units shipped without a pump (remote sump applications) make sure a bleed-off line and valve are properly sized and installed on the discharge side of the pump and connected to a convenient drain. In either case, the bleed-off valve should be fully open.

Strainer

Check the strainers, if applicable, in the basin section to make certain they are in the proper location over the pump suction, along side of the anti-vortex hood. (See Figure 23.)

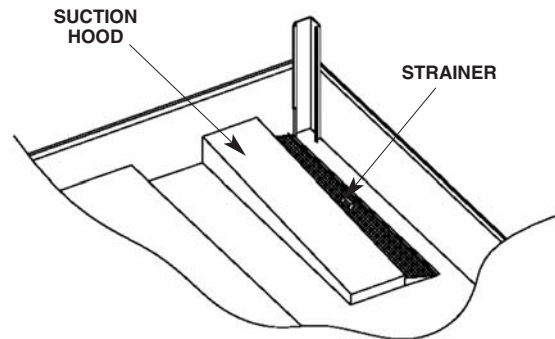


Figure 23 – Strainer Location

Screens

Protective fan screens are provided across the top of the fan cylinders of all models. Check and tighten all bolts.

Float Valve Adjustment

The float valve is pre-set at the factory; however, adjustment should be checked after rigging. The float valve should be adjusted so that the centerline of the float is at the measurement shown in Table 4 from the basin bottom. Raise or lower the float by using the wing nuts on the vertical threaded rod only. Do not adjust the horizontal rod.

Unit Width	Level
8.5'	9"
12'	10"

Table 4 – Recommended Water Level



Starting Sequence

Before starting the unit, check that all access openings, safety screens and covers are in place. Start the unit as outlined below:

1. Fill the pan to the overflow level.
2. Bump start and check the spray water pump(s) for proper rotation. Directional arrows are found on the pump impeller housing.
3. Bump start and check the fan(s) for proper rotation. Directional arrows are placed on the side of the fan cylinder.

Maintenance

Once the installation is complete and the unit is turned on, it is important that it be properly maintained. Maintenance is not difficult or time-consuming but must be done regularly to assure full performance of the unit. Refer to the operation maintenance instructions enclosed with the unit for proper maintenance procedures.

Freeze Protection

Proper freeze protection must be provided if the unit is located in a cold climate. Refer to the operation maintenance instructions as well as product bulletins for further information.



Rigging Hardware Parts List

The following table lists those parts which are shipped together with the unit(s) for field assembly and/or spare parts.

Box Size	Rigging Joint Hardware	Sealer Tape	Nozzles
8.5' x 6'	10	3	0
8.5' x 9'	14	4	0
8.5' x 12'	18	5	0
8.5' x 18'	26	5	0
12' x 12'	18	5	0
12' x 18'	26	6	0

NOTES:

1. (1) 3/8" x 1" Long Bolt
(2) 3/8" Flat Washer
(1) 3/8" Locknut

Table 5 – Rigging Hardware



Accessories can ship in a variety of locations depending on the type of accessory, the size of the unit and the other accessories purchased with the unit. See Table 6 for a guide to accessory location.

Unit Accessories	Shipping Location
Aluminum Ladder	Shipping Location is Unit and Accessory Dependent - If Space is Available: Strapped Inside Unit Basin - If No Space is Available: Shipped Separately on Truck Bed
Drip Channels for Multi Cell Units	Strapped Inside Unit Basin
Discharge Attenuation	Mounted Loosely Bolted on Basin Section
Electric Basin Heater	Shipping Location is Unit Dependent - End Mounted Heater: Installed in Unit Basin - Side Mounted Heater: Strapped Inside Basin Section
Electric Basin Heater Control Panel	Shipping Location is Dependent on Control Panel Size - If Space is Available: Mounted on Unit Basin - If No Space is Available: Boxed, Wrapped and Wire Tied Inside Basin Section
Electric Basin Heater Low Water Cutout	Shipped in Rigging Box
Electric Basin Heater Thermostat	Shipping Location is Unit Dependent - End Mounted Thermostat: Mounted on Basin Section - Side Mounted Thermostat: Shipped in Rigging Box
Electronic Water Level Control Probes	Mounted in PVC standpipe
Electronic Water Level Control PVC Standpipe	Strapped Inside Unit Basin
External Service Platform with Ladder	Shipping Location is Unit and Accessory Dependent - If Space is Available: Strapped Inside Basin Section - If No Space is Available: Crated and Shipped Separately on Truck Bed
Factory Mounted Crossover Piping	Welded to Coil Connections
Fan Motor	Shipped Loose on 8.5' Wide Units
Fan Screens (If not mounted)	Shipping Location is Unit and Accessory Dependent - If Space is Available: Strapped Inside Basin Sections - If No Space is Available: Crated and Shipped Separately on Truck Bed
Fan Screen Supports (If not mounted)	Shipping Location is Unit and Accessory Dependent - If Space is Available: Strapped Inside Basin Section - If No Space is Available: Crated and Shipped Separately on Truck Bed
Hot Water or Steam Coil	Installed in Unit Basin
Low Water Cutoff for Pump	Shipped in Rigging Box
Motor Davit and Base	Shipping Location is Unit and Accessory Dependent - If Space is Available: Strapped Inside Basin Section - If No Space is Available: Crated and Shipped Separately on Truck Bed
Remote Sump Trash Screen	Installed In Unit Basin
Rigging Hardware	Shipped in Rigging Box
Safety Cage	Attached to the Ladder
Sealer Tape	Shipped in Rigging Box
Sump Sweeper Piping with and without High Flow Eductors	Installed in Unit Basin
Vibration Switch	Mounted in Fan Section
Water Level Indicator	Strapped Inside Unit Basin

Table 6 – Unit Accessory Shipping Location



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