



Rigging & Assembly Instructions

AT ATLAS

INDUCED DRAFT,
MODULAR
COUNTERFLOW
COOLING TOWERS



Mr. GoodTower





Table of Contents

Introduction	3
Shipping	3
Nomenclature	3
Structural Steel Support	4
Rigging Basin Sections	5
Joining Bottom Sections	5 - 6
Outlet Piping	7
Application of Sealer Tape to Basin Sections	8
Rigging Casing Sections	8
Assembly of the Casing Sections to the Basin Sections	9
Assembly of Bottom Inlet Piping	10
Application of Sealer Tape to Casing Sections	11
Rigging Fan Sections	12
Assembly of the Fan Sections to the Casing Sections	13
Rigging Fan Sections on Multi-cell Units	14
Fan Sealing	15
Extended Lifts	15
Floating Shaft Installation & Alignment	16
Fan Assembly Instructions	17
Rigging Drive Assembly	18
Fan Cylinder Assembly	19
Fan Cylinder Rigging	20
Fan Cylinder Sealing	21
External Platform and Vertical Ladder Installation	22 - 24
Appendix A	25
Notes	26 - 27

The AT ATLAS INDUCED DRAFT MODULAR COUNTERFLOW COOLING TOWERS should be rigged and assembled using the instructions and recommendations outlined in this bulletin.

All personnel should review these procedures, as well as the latest industry-approved installation practices, prior to rigging and assembly. The information in this bulletin is for informational purposes only. These instructions do not purport to cover all variations and possible contingencies in connection with installation. Additionally, the procedures described therein are subject to change without prior notice, due to EVAPCO, Inc.'s ongoing research and development.

EVAPCO, Inc. makes no representations or warranties with respect to these instructions or the products described herein. Nor shall EVAPCO, Inc. be responsible for any loss or damage (direct, indirect, consequential, or other) during installation or handling of equipment after shipment.

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Introduction

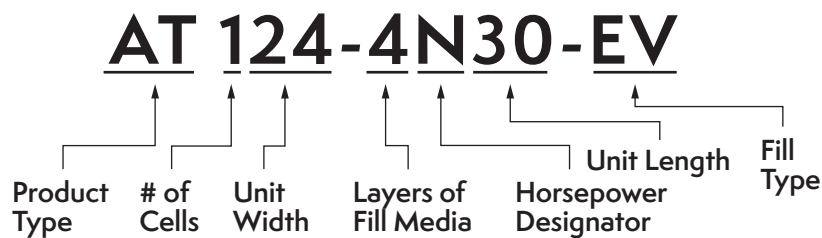
Thank you for purchasing your EVAPCO AT ATLAS induced draft, counterflow cooling tower. This manual provides instructions and recommendations to safely and correctly install all AT ATLAS cooling towers. It is recommended that all instructions provided in this manual are reviewed prior to rigging and assembly. If at any point specific circumstances not covered by this manual arise please contact your local EVAPCO representative for assistance.

Proper care must be taken by all parties involved in handling and assembling the equipment to ensure that safe and thorough installation practices are implemented to prevent damage or injury to the equipment, persons and environment involved.

Shipping

Unless otherwise noted in the factory submittal, all EVAPCO AT ATLAS towers ship in seven (7) sections per cell plus the drive system, fan, and fan cylinder. Any special shipping configurations will be listed in the factory submittal. Please contact your local EVAPCO representative for more information on alternate shipping configurations.

Nomenclature



Product Type

AT – Indicates an Advanced Technology (AT) tower.

of Cells

Determined by the number of inlet connections, can be 1 or 2 cells.

Unit Width

The total width of the unit, in feet, all cells included.

Layers of Fill Media

Determined by the number of 1-foot-tall fill layers. Can be 4 or 5

Horsepower Designator

Determined by the horsepower per fan motor. Available from N = 40 HP to T = 150 HP.

Unit Length

The total length of the unit, in feet, all cells included.

Fill Type

Indicated the style of heat transfer media in the tower.



Structural Steel Support

As standard, three structural I-beams running the length of the unit are required for support of each cell. These beams should be located underneath the outer flanges of the unit (See **Figure 1** and **1a**). Transverse steel arrangements are also available (see **Figures 1b** and **1c**). Mounting holes 3/4" (19 mm) in diameter are located in the bottom flanges of the unit for bolting to the structural steel (see steel support print in unit submittal for exact bolt hole location). Bolt the bottom sections to the steel support before rigging the top sections.

Beams should be sized in accordance with accepted structural practices. Maximum deflection of the beam under the unit to be 1/360th of the unit length, not to exceed 1/2" (13 mm). Deflection may be calculated by using 55% of the operating weight of the unit as a uniform load on each beam (See certified print in unit submittal for operating weight).

The supporting I-beams should be level before setting the unit. Do not level the unit by shimming between the bottom flanges and the beams as this will not provide proper and continuous longitudinal support. Support beams and anchor bolts are to be furnished by others.

Please refer to the unit submittal for detailed, project specific steel support arrangement.

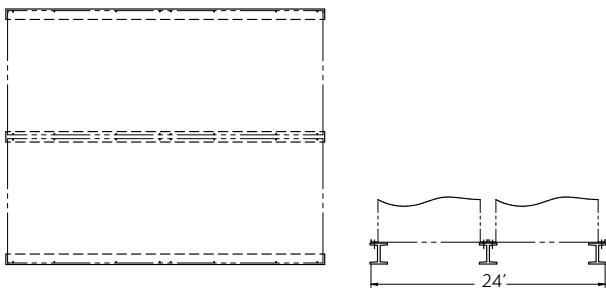


Figure 1 – Standard Longitudinal Steel Support Arrangement for 24' x 30' ATLAS

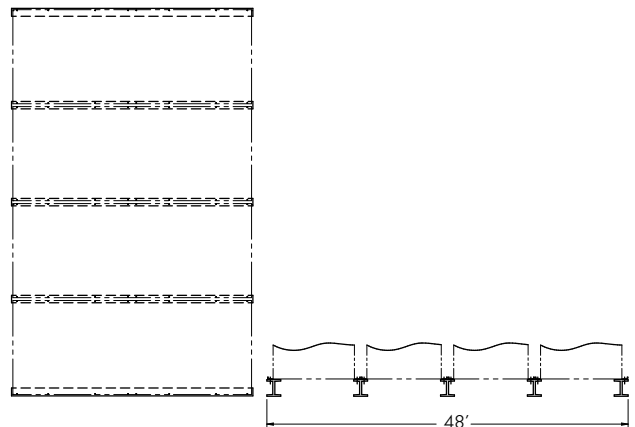


Figure 1a – Standard Longitudinal Steel Support Arrangement for 48' x 30' ATLAS

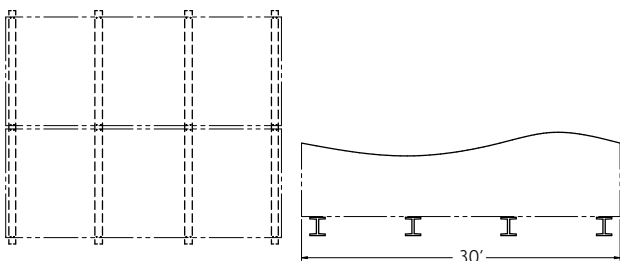


Figure 1b – Standard Transverse Steel Support Arrangement for 24' x 30' ATLAS

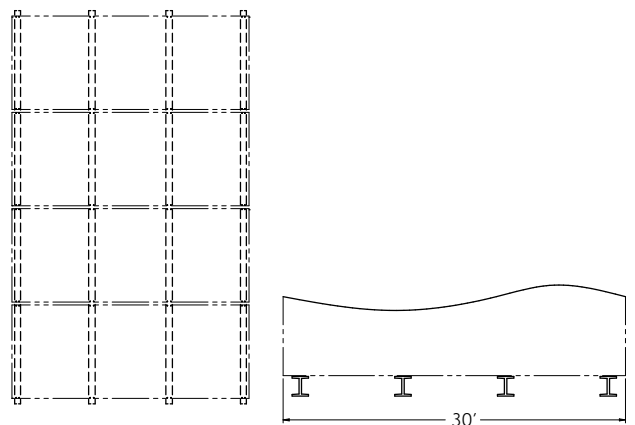


Figure 1c – Standard Transverse Steel Support Arrangement for 48' x 30' ATLAS

Rigging Basin Sections

Lifting devices are located along the inside edges of the bottom section for lifting and final positioning purposes as shown in **Figure 2**. The hook of the crane must be a minimum dimension of 26' above the top of the basin section to prevent undue strain on the lifting devices. If applicable, see the **Extended Lifts** section on page 13 for proper arrangement.

Bolt the bottom sections to the steel support before rigging the top sections.

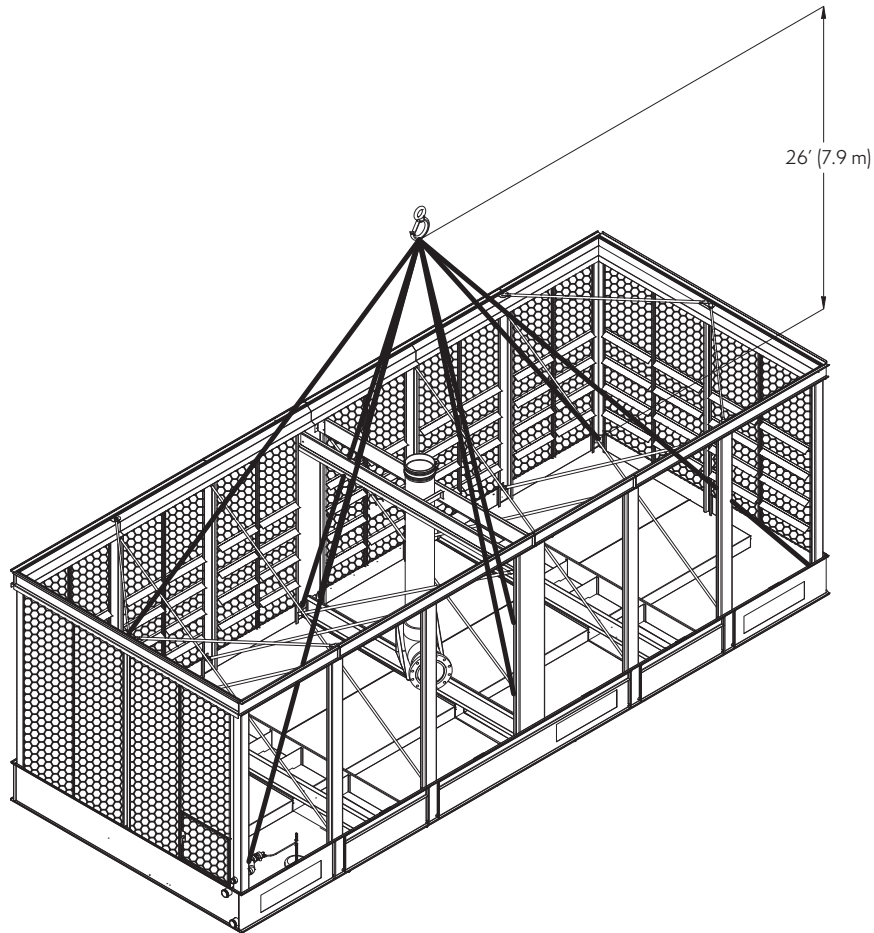


Figure 2 – Rigging Unit Bottom Section - 1 Basin

Joining Bottom Sections

Each 24' x 30' ATLAS basin is composed of two (2) 12' x 30' sections, connected by three (3) flume boxes for equalization.

In addition to the equalizer flumes, these units are provided with horizontal drip channels and vertical splash guards to keep water from splashing out from between the cells.

The equalizer flume boxes are shipped loose for field assembly. It is important to connect the equalizer flumes to balance the water level in the basins for proper pump suction operation. The procedures that follow should be performed in sequence.

ATLAS Flume Box Installation Instructions

1. Rig one of the bottom sections of the cooling tower. Bolt to steel sup.
2. One face of the flume box is provided with 3/8" (10 mm) welded bolts. Clean the mating flume opening on the rigged bottom section and apply a layer of sealer tape on this surface, centered between the hole centers and the outside edge. Remove paper backing strip from sealer tape.
3. Align the bolt holes in the rigged bottom section with the welded 3/8" (10 mm) bolts on the flume box.
4. Install 3/8" (10 mm) nuts and washers on every bolt around the flume opening and tighten.



5. Follow steps 4 through 12 as shown below.
6. Rig the second basin adjacent to the equalizer flume on the steel support as shown in **Figure 3**.
7. Clean the mating surfaces of the flume box and the surface of the flume opening on the adjacent section. Apply sealer tape to the flanged flume opening on the adjacent section.
8. Align the bolt holes in the flume box and flume opening with drift pins (by others) while drawing the second bottom section against the flume box.
9. Install 3/8" (10 mm) bolts, nuts, and washers in every hole around the flume opening and tighten.
10. Bolt the second bottom section to the steel support.

Drip Channel and Splash Guard Installation Instructions (this may be completed after the unit is completely rigged):

1. Remove the 1/4" (6 mm) hardware which holds the drip channel retaining clips to the side panel. Place the drip channel over the adjoining basin section flanges. Turn around the retaining clips and install them using the same hardware.
2. Apply a single layer of sealer tape to the mating flange of the drip channels (see **Figure 3a**). Fasten drip channels together end-to-end by driving a self-tapping 5/16" (8 mm) screw through the section end with the larger hole into the mating end with the smaller hole. Stainless steel units will use 5/16" (8 mm) stainless steel nuts and bolts.
3. Add sealer tape to bottom of vertical splash guard. Place the vertical splash guard in the bend of the vertical supports. On galvanized units, attach the vertical splash guard using 5/16" (8 mm) self-tapping screws. On stainless steel units, attach the vertical splash guards using 5/16" (8 mm) stainless steel nuts and bolts. (See **Figure 3**)
4. Once the bottom of the vertical splash guard has been attached to the drip channel, place the filler cap channel in the upper flanges of the basin as shown in **Figure 3**. Attach to vertical splash guards using 5/16" (8 mm) tappers (for galvanized units) or stainless steel nuts and bolts (for stainless steel units).

Filler Cap Channel to be installed after the casing sections are rigged.

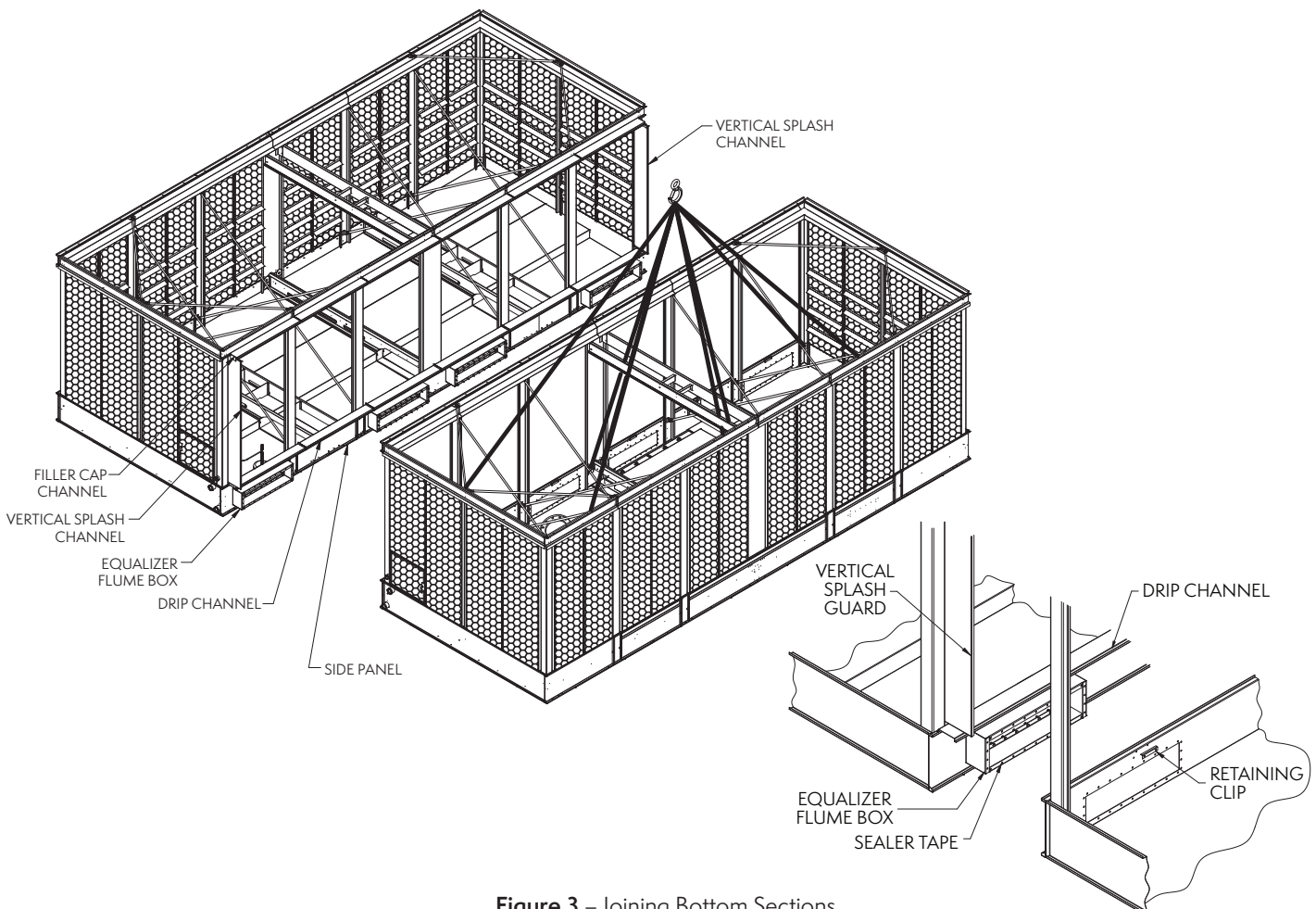


Figure 3 – Joining Bottom Sections

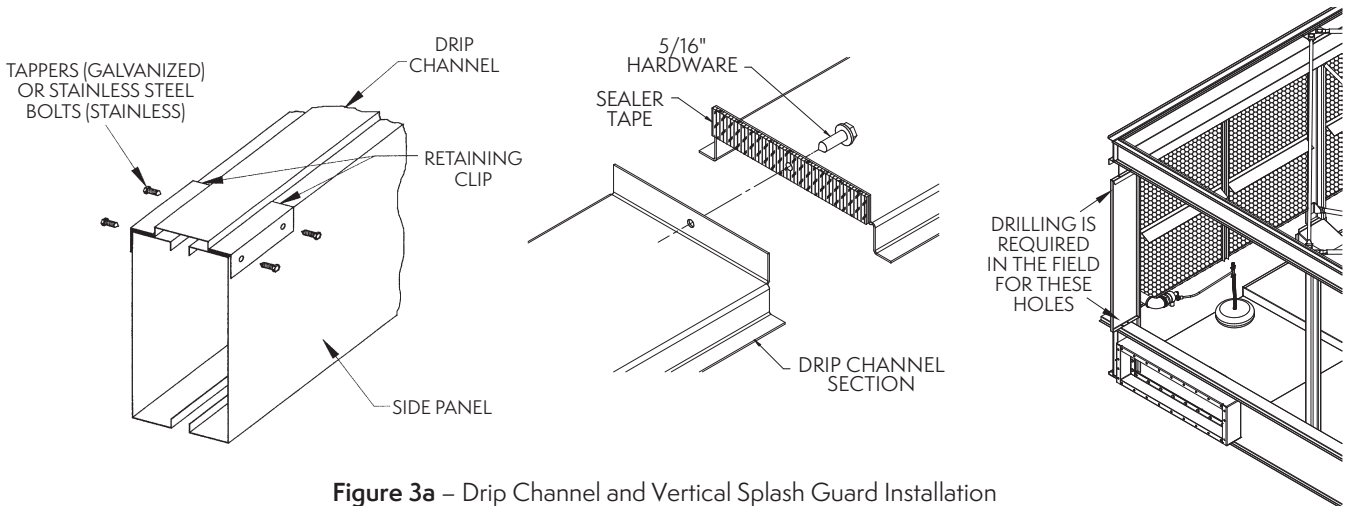


Figure 3a – Drip Channel and Vertical Splash Guard Installation

Outlet Piping

Side outlet depressed sump boxes ship loose in the basin, and require installation in field. Please follow below instructions to complete installation of the side outlet depressed sump box:

1. Locate square opening in the deepest part of the towers basin. Clean all mating flanges and apply sealer tape over the bolt holes surrounding the opening, as shown in **Figure 4**.
2. Lower the side outlet depressed sump box through the opening such that the bolt holes on its flanges match up with the holes surrounding the opening.
3. Complete installation using provided hardware, as shown in DETAIL A and DETAIL B.

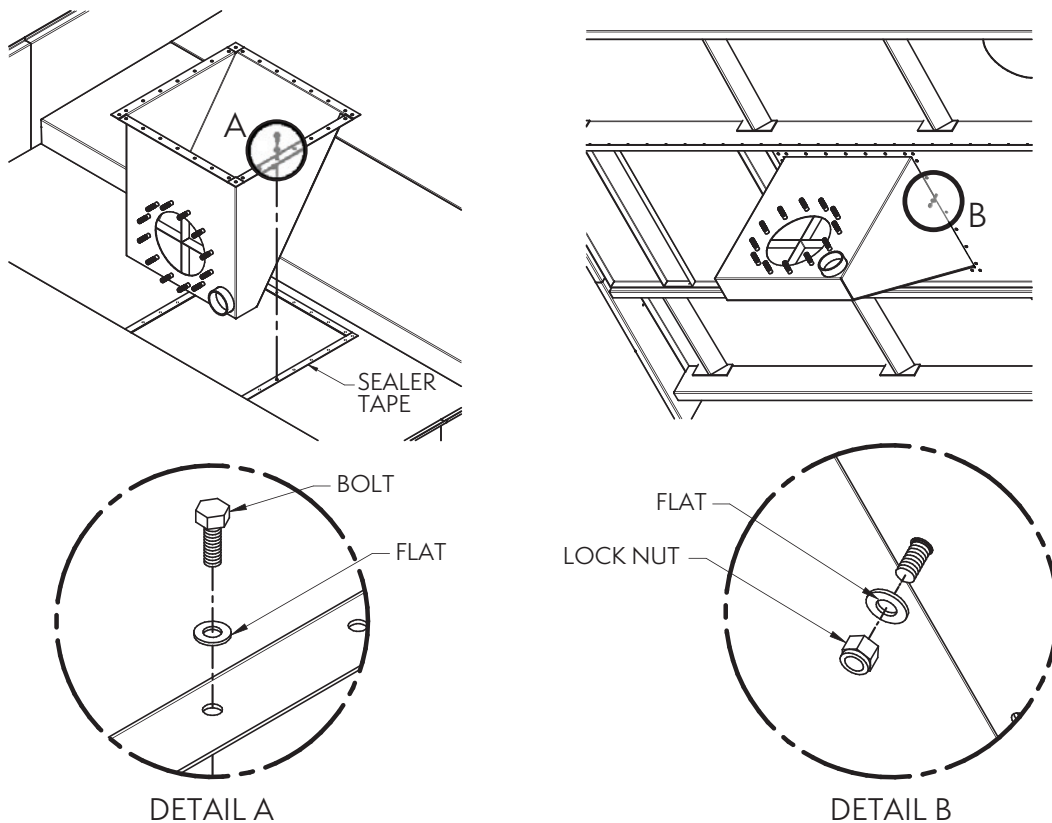


Figure 4 – Side Outlet Depressed Sump Box Installation



Application of Sealer Tape to Basin Sections

Once the basin sections have been set on the support steel and all fasteners are installed, the top flanges should be wiped down to remove any dirt or moisture. Apply one layer of sealer tape along the 12' and 30' sides, centered over the mounting hole (see **Figure 5**).

The sealer tape should overlap on the corners as shown in **Figure 5**. Do not splice the sealer tape along the 12' long end flanges. Sealer tape will need to be spliced and overlapped on the 30' sides.

Always remove the paper backing from the sealer tape.

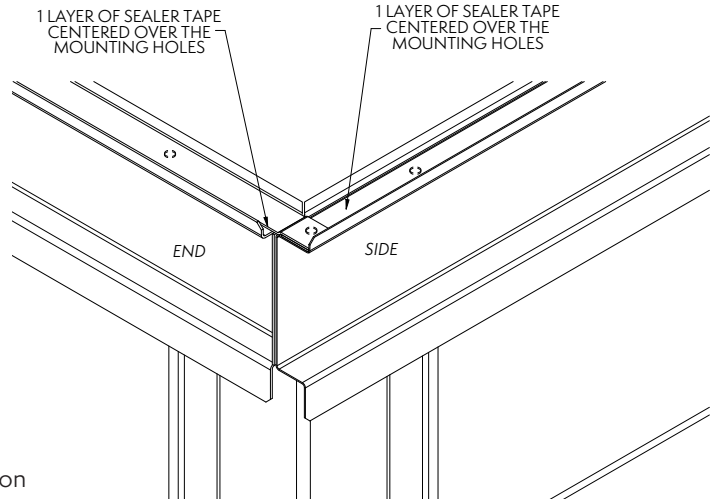


Figure 5 – Sealer Tape on Flange of Basin Section

Rigging Casing Section

Lifting ears are provided in the corners of the casing sections and along the length (4 total lifting ears per side) for lifting and final positioning. The hook of the crane must be a minimum dimension 26' above the lifting device to prevent undue strain on the lifting ears.

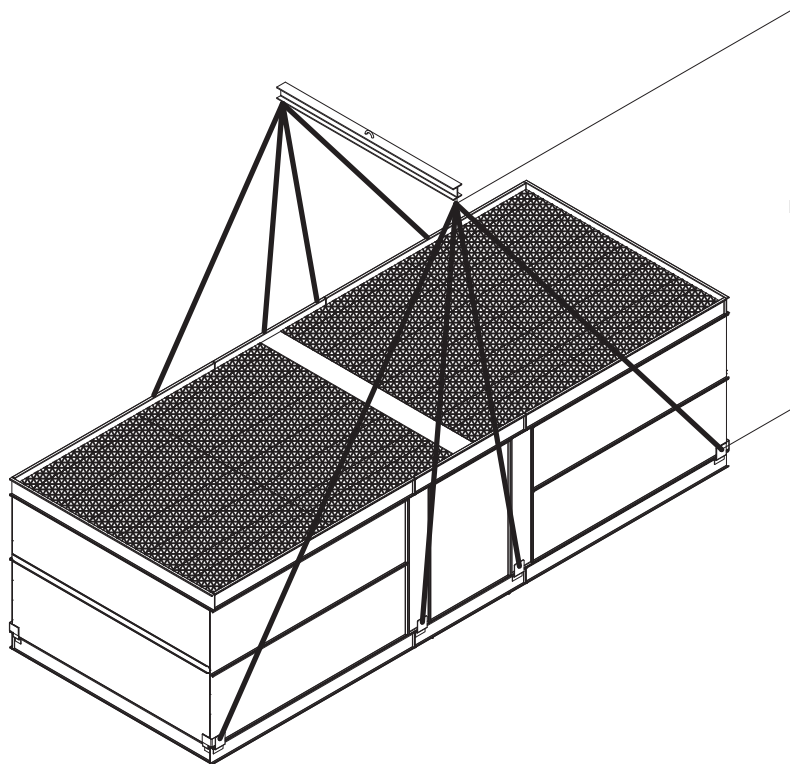


Figure 6 – Rigging a Unit Casing Section

Assembly of the Casing Sections to the Basin Sections

Before securing the casing sections to the basin sections, remove any loose parts shipped in the basin.

Wipe the flanges on the bottom of the casing sections. Units are also provided with match markings on each section, as shown in Appendix A.

Lower the casing section to within several inches of the basin section making sure the two sections do not touch and the sealer tape is not disturbed. Lower the casing section the rest of the way and fasten all four corners. See **Table 1** for recommended hardware. Make use of drift pins to simplify the final positioning process (see Drift Pin explanation below).

Install the remaining fasteners, working from the corners towards the center. Fasteners must be installed in every hole in the flanges.

Drip Channel and Splash Guard Installation Instructions (this may be completed after the unit is completely rigged):

Drift pins are tools used to align holes in the flanges of the casing and basin sections of the unit prior to final fastening. They are occasionally used in the positioning of the basin section as well.

Once the sealer tape is applied and the casing section is hovering over the basin section, a drift pin should be driven into each of the corner bolt holes. Using drift pins in the corners (at minimum) is meant to restrict the sideways motion of the casing section relative to the basin section.

A drift pin should be used in intermediate bolt holes in the rigging seams as needed to maintain alignment.

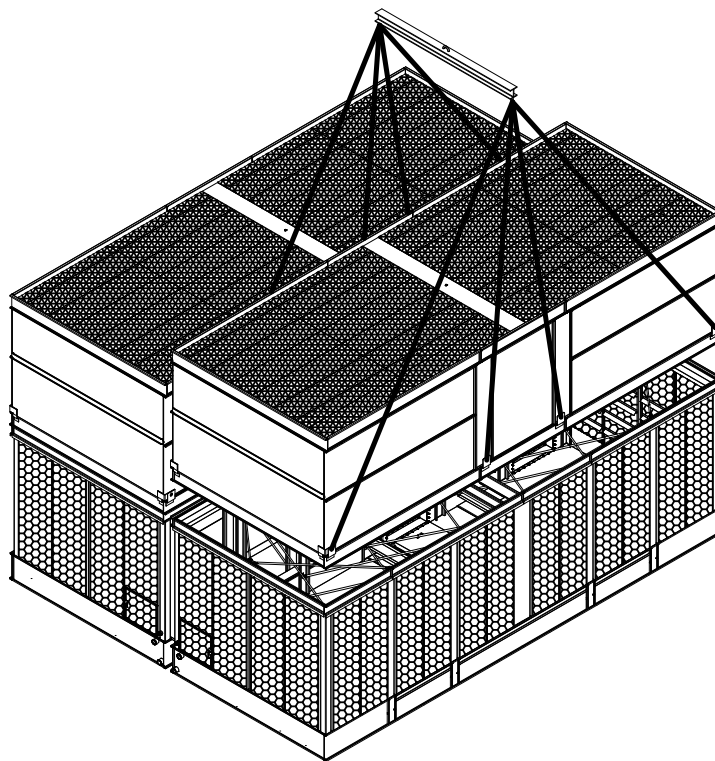


Figure 7 – Assembling Casing and Basin Sections

Units	Hardware Sizes
All ATLAS Units	3/8" (10 mm) Nuts, Bolts & Washers (Galvanized or Stainless)

Table 1– Hardware Sizes



Assembly of Bottom Inlet Piping

On the ATLAS tower, the inlet connection is located on the bottom as standard. Internal piping is provided that allows the process water to make its way to the hot water distribution system. Please follow the below steps to complete field installation of the bottom inlet after the unit is rigged. Always remove the paper backing from the sealer tape.

1. On the ATLAS tower, the inlet connection is located on the bottom as standard.
2. Locate the bottom inlet assembly components, namely the riser pipes, one flexible reinforced pipe connectors per basin module, four pipe clamps per basin module and the lower pipe flanged spool. These components are fastened securely in the unit's basin prior to shipment.
 - 2a. Remove shipping strap under pipe.
3. Align the riser pipe assembly with the upper pipe section in the bottom of the casing section. Loosen the pipe clamp and slip the pipe connector up over the upper pipe section.
4. Tighten all pipe clamps. A ratchet wrench is recommended (See **Figure 8**).
5. Repeat this process for each riser pipe.

After tower is fully installed, insert the lower pipe flanged spool with gaskets between flanges, as shown in **Figure 9**. Use hardware noted in **Table 2**. Please note, the basin section has cross braces for shipping support. One of these cross braces will be in the way of the pipe spool, please remove this cross brace prior to installing the pipe spool. The cross brace does NOT need to be reinstalled after the pipe spool has been installed.

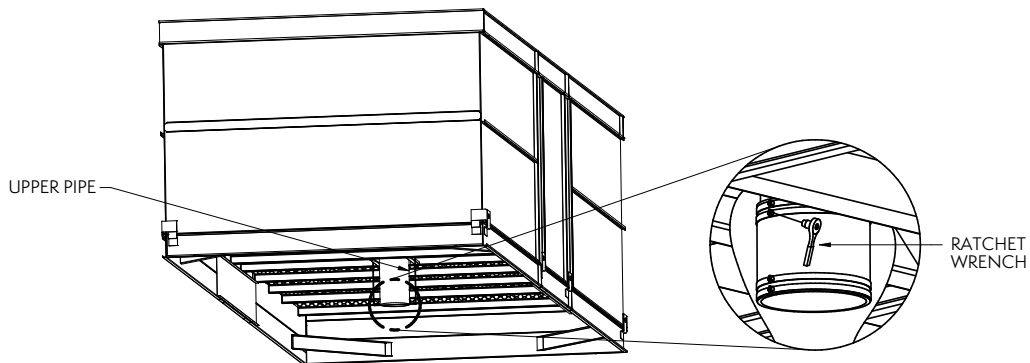


Figure 8 – Casing Bottom Inlet Piping

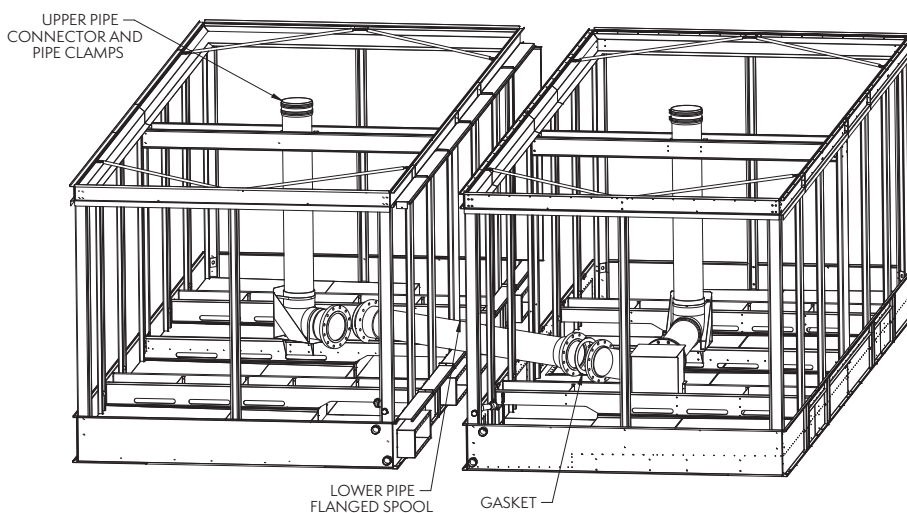


Figure 9 – Installation of Bottom Inlet Piping

Units	Hardware Sizes
All ATLAS Units	7/8" (22 mm) Nuts, Bolts & Washers (Galvanized or Stainless)

Table 2– Hardware Sizes

Application of Sealer Tape to Casing Sections

Once the casing sections have been rigged to the basin sections and all fasteners are installed, the top flanges should be wiped down to remove any dirt or moisture. Apply one layer of sealer tape, centered over the mounting holes (see **Figure 10**). On the flanges between casing sections, apply two strips of sealer tape, one partially overlapping the other on the entire length of the flanges. Apply sealer tape to the entire perimeter of the casing sections. Do not splice the sealer tape along the 12' long end flanges. Sealer tape will need to be spliced and overlapped on the 30' sides.

Always remove the paper backing from the sealer tape.

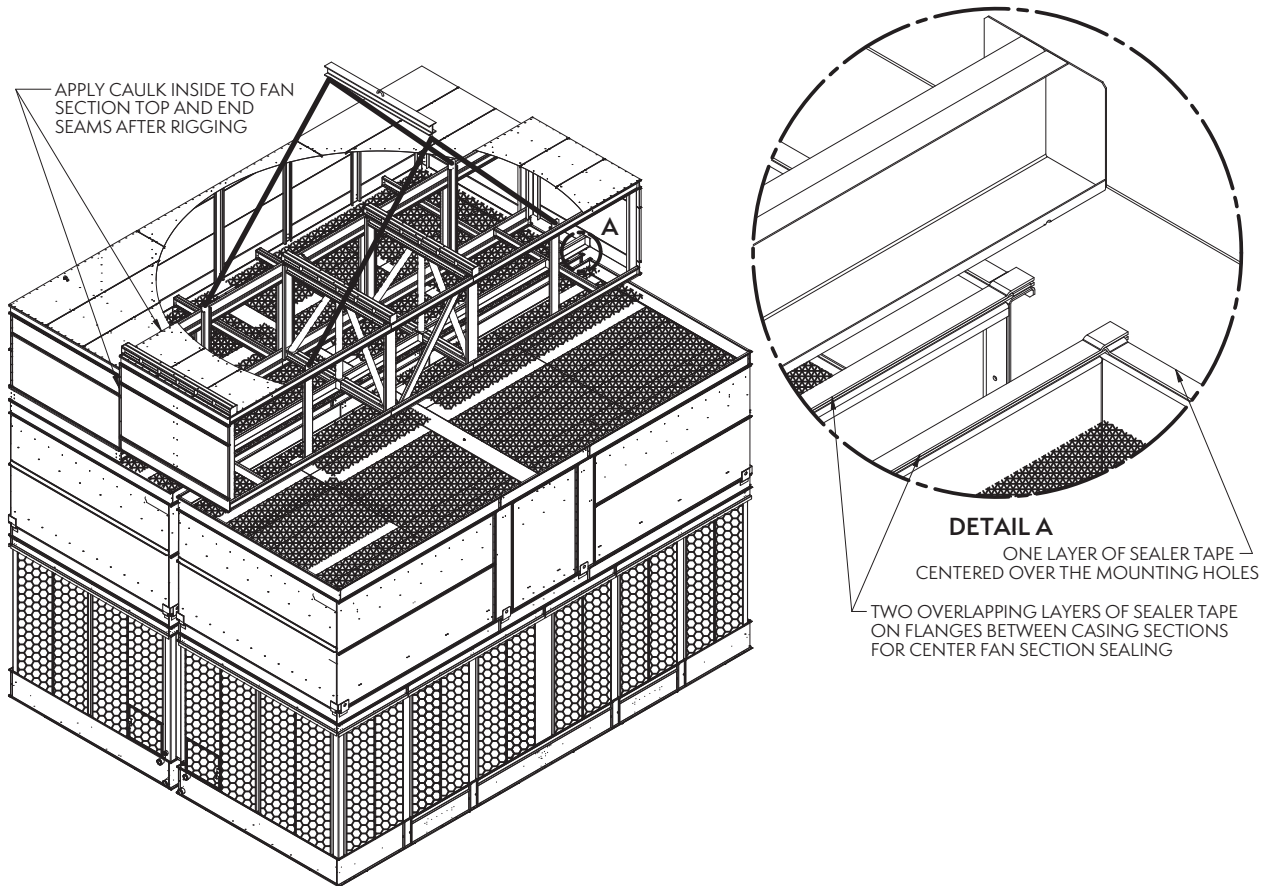


Figure 10 – Fan to Casing Section Sealing



Rigging Fan Sections

Each ATLAS unit has 3 fan sections: left, right and middle. On the middle section, lifting ears are provided for lifting and final positioning. For the left and right sections, U-bolts are provided. The hook of the crane must be a minimum of 26' above the lifting device to prevent undue strain on the lifting ears and U-bolts. See **Figures 11a** and **11b** for the middle section and end sections, respectively.

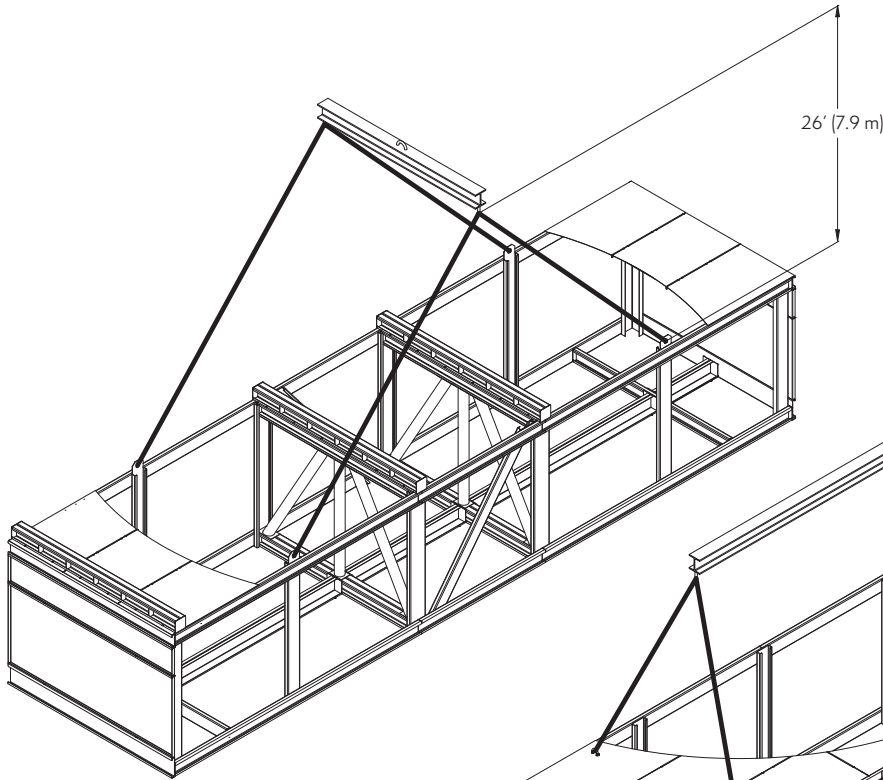


Figure 11a – Rigging of Middle Fan Module

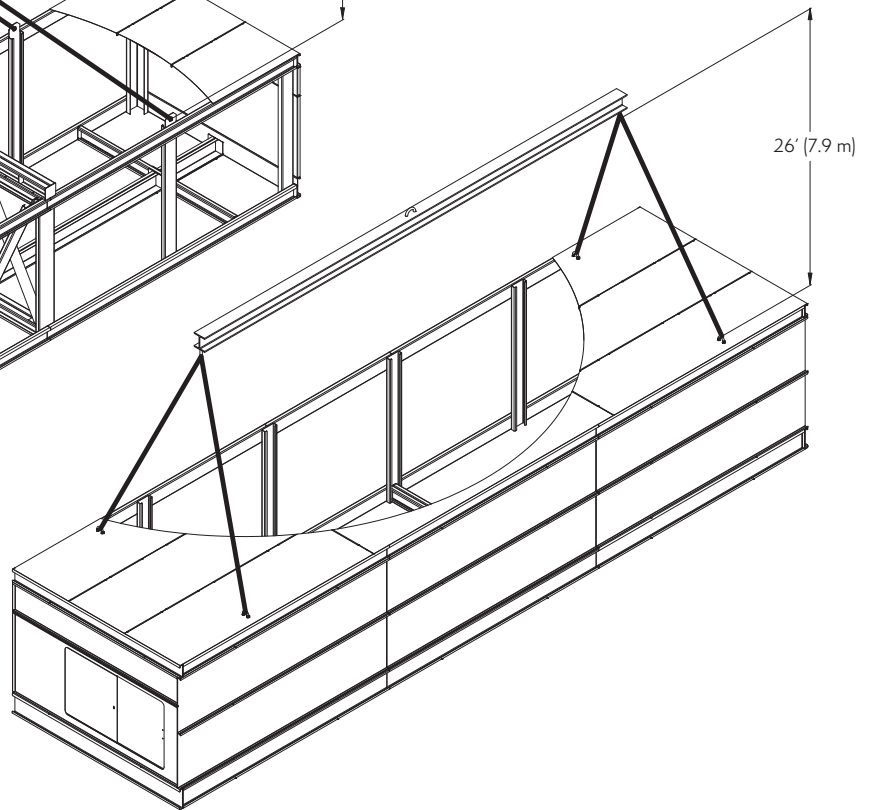


Figure 11b – Rigging of End Fan Module

Assembly of the Fan Sections to the Casing Sections

The fan sections rigging should begin with an end fan module, followed by the middle fan module and finally followed by the last end fan module.

Drift pins should be used to align the fan section with the casing section. The installer will need to attach the fan section end panels to the casing section end panels and the fan section side panels to the casing section side panels with 3/8" hardware.

Units are provided with match markings on each section to assist with arrangement, as shown in Appendix A.

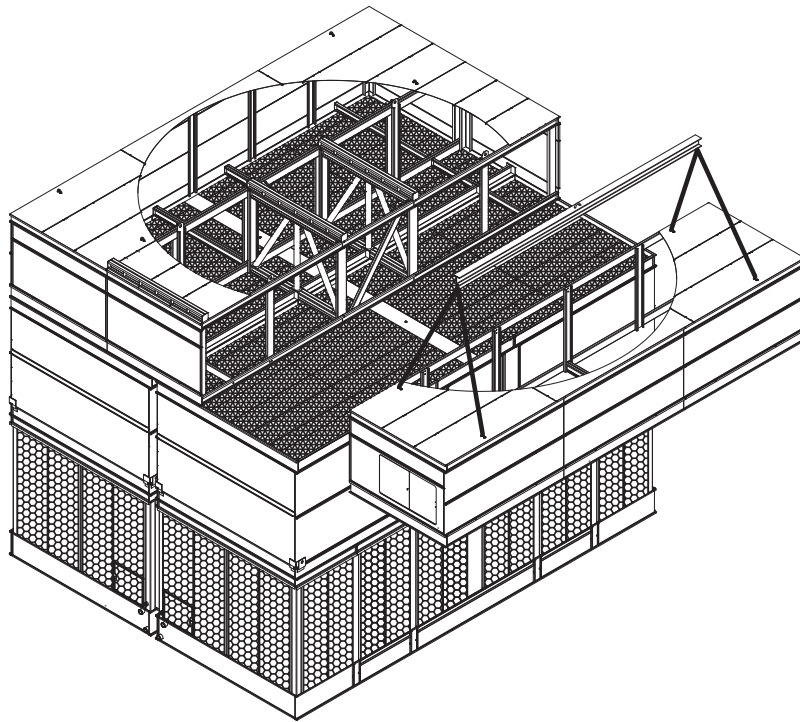


Figure 12 – Assembling Fan and Casing Sections

Rigging Fan Sections

In multi-cell installations, placing multiple towers side-by-side will limit access between cells. Therefore, multi-cell rigging channels will come attached to the inside of the casing and fan section panels, as shown in **Figure 13**. Once the sections are mounted, the flanges of the rigging channels must be bolted from inside the unit. Use hardware noted in **Table 3**. The fasteners in the rigging channels are in addition to the fasteners required around the perimeter of the fan section.

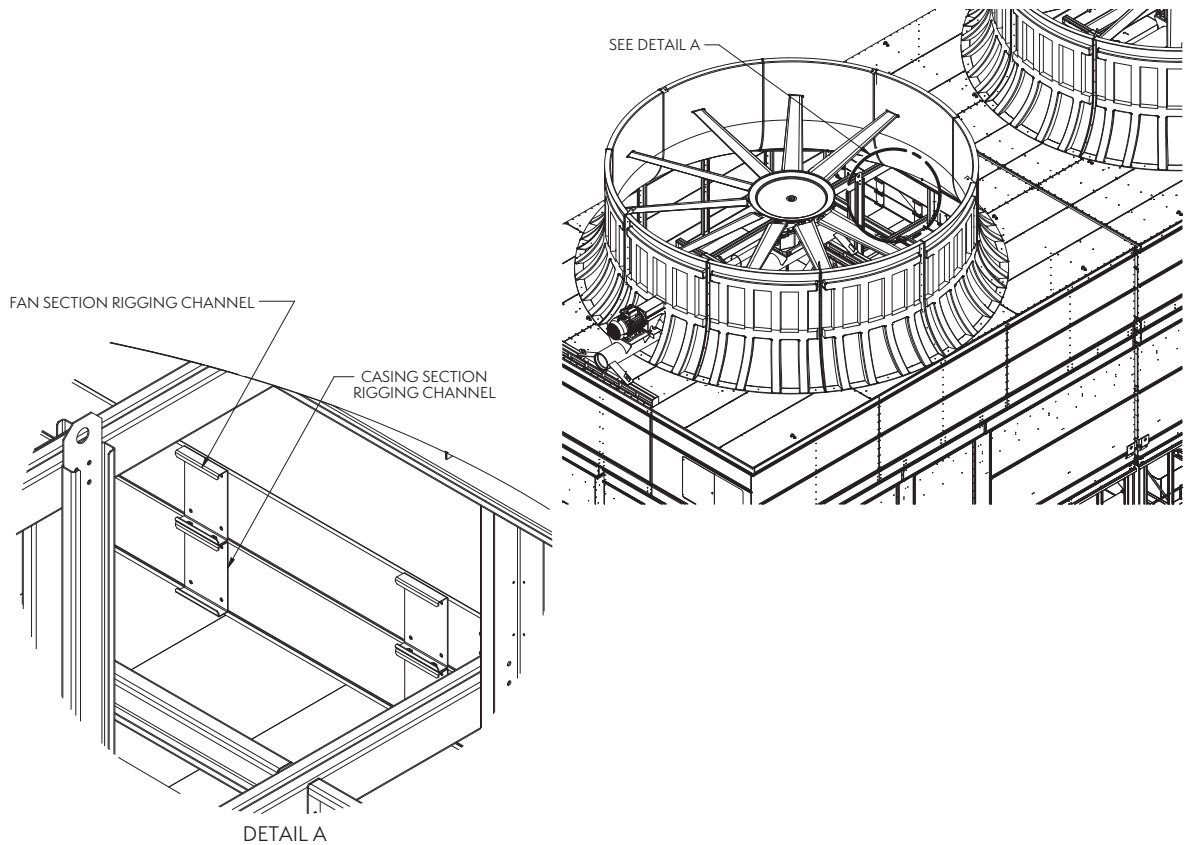


Figure 13 – Fan and Casing Rigging - Multi-cell

Units	Hardware Sizes
All ATLAS Units	3/8" (10 mm) Nuts, Bolts & Washers (Galvanized or Stainless)

Table 3 – Hardware Sizes

Fan Sealing

After rigging, apply caulk to the top and end seams of the fan sections (**Figure 14**). This must be done from the inside of the unit.

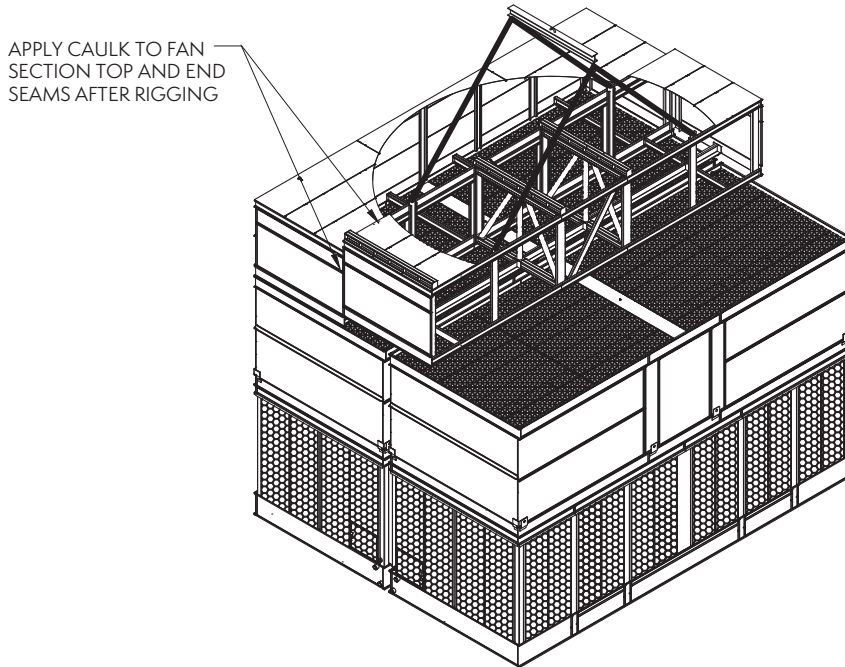


Figure 14 – Fan Section Sealing

Extended Lifts

NOTE: The lifting devices and U-bolts should be used for final positioning only and for lifting where no danger exists. If they are used for extended lifts, safety slings should be provided under the sections.

Safety slings and skids must be removed before final positioning of the unit.

The preferred method for extended lifts is to use slings under the unit, as shown in **Figure 15** below. Spreader bars should always be used between the cables at the top of the section to prevent damage to the upper flanges.

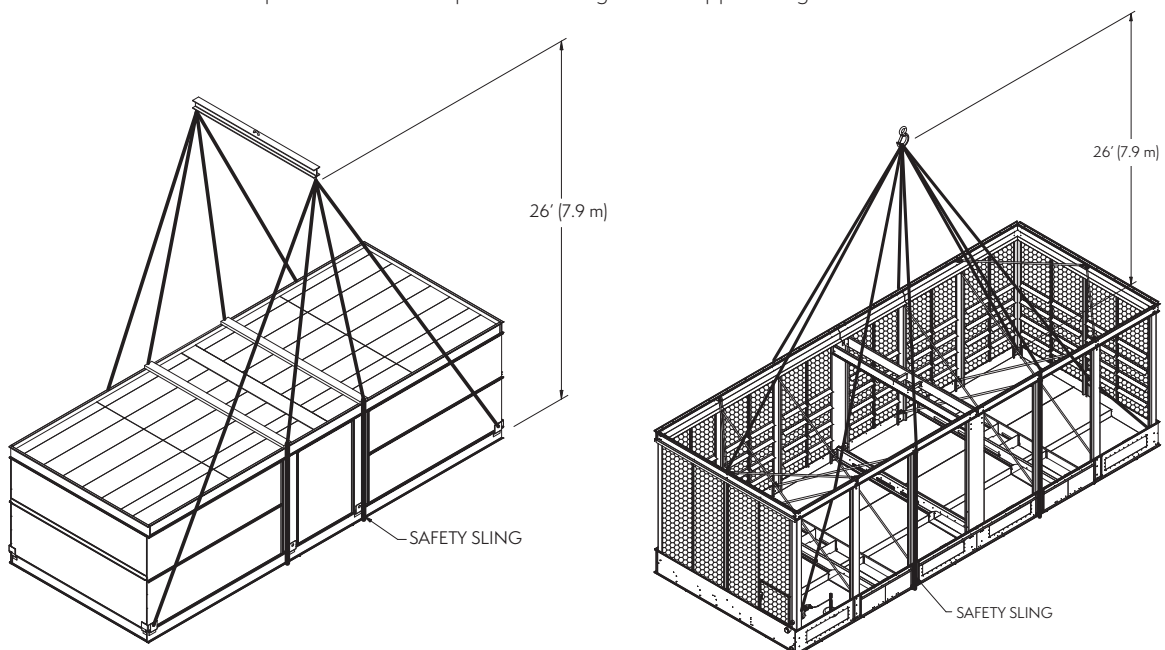


Figure 15 – Extended Lifts

Floating Shaft Installation & Alignment

The fan motor and gear reducer will ship mounted to the mechanical equipment support. The system will be prealigned in the factory, however alignment should be verified prior to rigging the mechanical equipment support to the fan section.

The steps for alignment of the floating shaft are:

1. Mount the drive shaft with the flexible element assembly on the gear drive input shaft using the supplied 3/8" (10 mm) hardware. All bolts, lock washers and nuts are supplied with the drive shaft kit.
2. Insert steel bushings into the composite flexible elements on the motor side.
3. Mount the drive shaft with the flexible element assembly on the motor output shaft using the supplied 3/8" (10 mm) hardware. All bolts, lock washers and nuts are supplied with the drive shaft kit.
4. Torque requirements for the bolts are listed in **Table 4** (these values are dependent upon the shaft model). Use a torque wrench to properly torque all drive shaft bolts.

Shaft Model	Torque Requirement
LR_350	400 in-lbs (33 ft-lbs 45 Nm)
LR_375	400 in-lbs (33 ft-lbs 45 Nm)
LR_450	145 in-lbs (12 ft-lbs 16 Nm)
LR_485	240 in-lbs (20 ft-lbs 27 Nm)

Table 4 – Torque Requirements for Floating Shaft Assemblies

5. Check angular and axial misalignment between the drive shaft and both the motor and gear drive couplings.

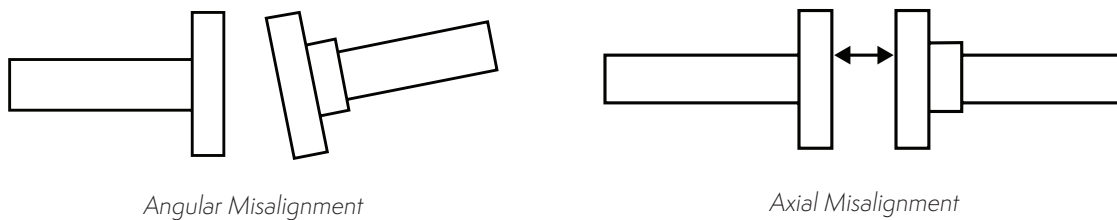


Figure 16 – Checking Angular and Axial Misalignment

6. Check angular misalignment with a dial indicator on gear drive side.
7. Attach the dial indicator support to the drive shaft and position the indicator tip to read off the opposite side flange.
8. With the dial indicator set to zero, rotate the shaft 360° and record the indicator readings at 90° increments.
9. The range between minimum and maximum values should be less than 0.010" (0.25 mm). If alignment is out of tolerance, add shims (not exceeding 1/4").
10. When the angular alignment is within the acceptable ranges as mentioned in step 9, securely tighten all gear drive hardware.
11. Repeat steps 6 through 10 on the motor side of the drive shaft.
12. Check axial misalignment with a tape measure or dial caliper. Refer to **Table 5** for axial alignment gap limits.

Shaft Model	Axial Alignment Gap Limits
LR_350	0.42-0.44 in. (10.7 mm-11.2 mm)
LR_375	0.53-0.55 in. (13.5 mm-14.0 mm)
LR_450	0.42-0.44 in. (10.7 mm-11.2 mm)
LR_485	0.58-0.62 in. (14.9 mm-15.9 mm)

Table 5 – Axial Alignment Gap Limits

Fan Assembly Instructions

Once the gear drive has been aligned the fan should be assembled onto the mechanical equipment assembly. This simplifies assembly by completing it at ground level and reducing the number of lifts required.

Hudson Fan:

Please see "Tuf-Lite® III Fans 4000KW Series Hub Installation Manual" and **Figure 17**.

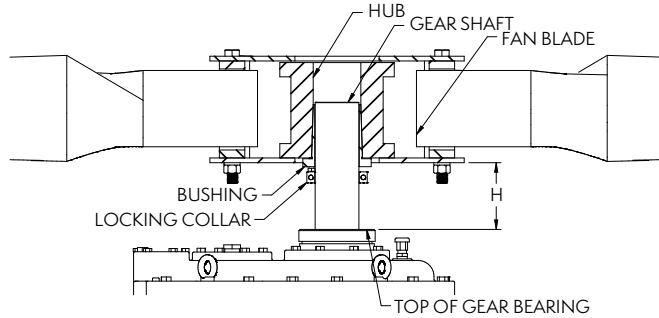


Figure 17 – Hudson Fan Mounting

Gear Drive	"H"
1008	8.5"
1110	7"
1311	6"

Table 6 – Hudson Fan Hub Distance

Moore Fan (Class 10000):

Please see "Moore Fans Class 10000 Fans Owners Manual" and **Figure 18**.

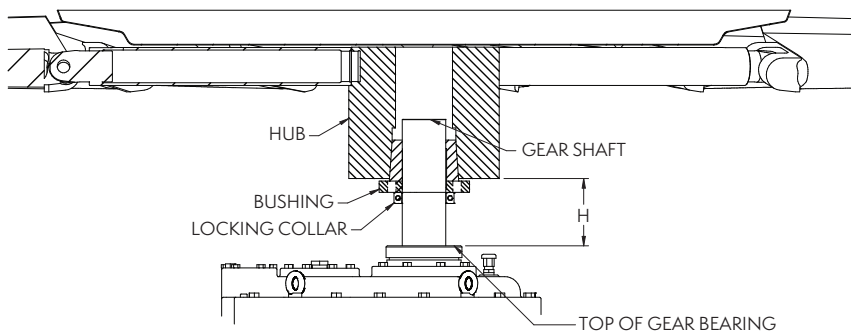


Figure 18 – Moore Fan Mounting

The relevant, above-mentioned manuals will be sent along with the tower.

Gear Drive	"H"
1008	8.5"
1110	7"
1311	6"

Table 7 – Moore Fan Hub Distance



Rigging Drive Assembly

Once the gear drive has been aligned and the fan assembled onto the gear output shaft, the entire assembly should be lifted onto the fan section (**Figure 19**). The hook of the crane must be a minimum of 17' above the lifting ears. See **Table 8** for hardware required to attach the drive assembly to the fan deck. Be sure to position the lifting cables between fan blades so as not to damage the fan during the lift.

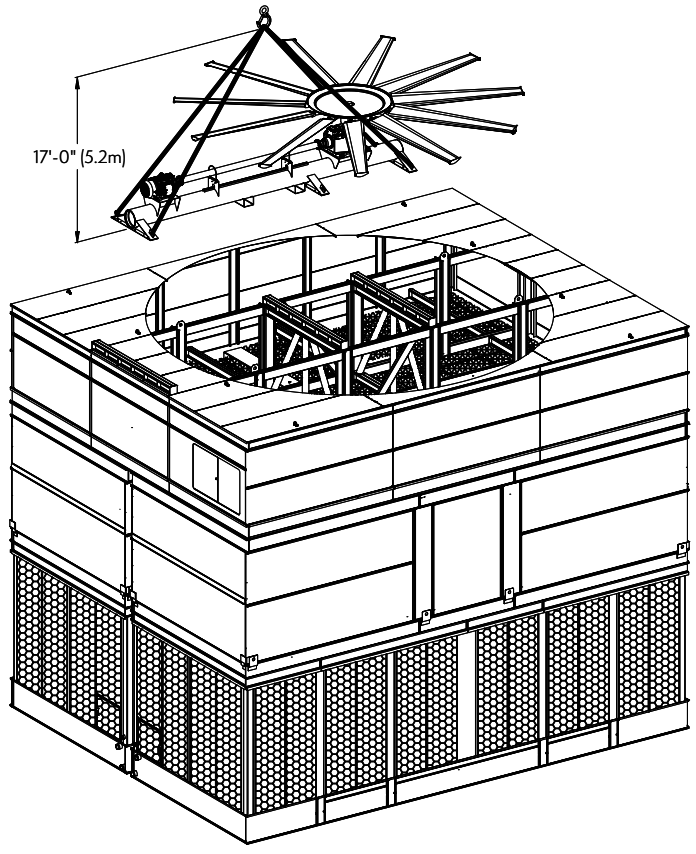


Figure 19 – Rigging Drive System

Units	Hardware Sizes
All ATLAS Units	1/2" (13 mm) Nuts, Bolts & Washers (Galvanized or Stainless)

Table 8 – Hardware Sizes

Fan Cylinder Assembly

The fan cylinder will ship in 10 sections for assembly and installation in the field. Each section will be joined with a flange as shown in **Figure 20**. Fan cylinder assembly should be performed on the ground with one person holding the sections up until the assembly is able to stand alone. See **Table 9** below for hardware required to assemble the fan cylinder.

Lifting devices to be installed in between cylinder sections during assembly. Remove lifting device after installing fan cylinder if the tower has a Super Low Sound Fan.

Flanges should be cleaned prior to assembly. Each cylinder should have 5 lifting devices total, installed in every other cylinder panel seam.

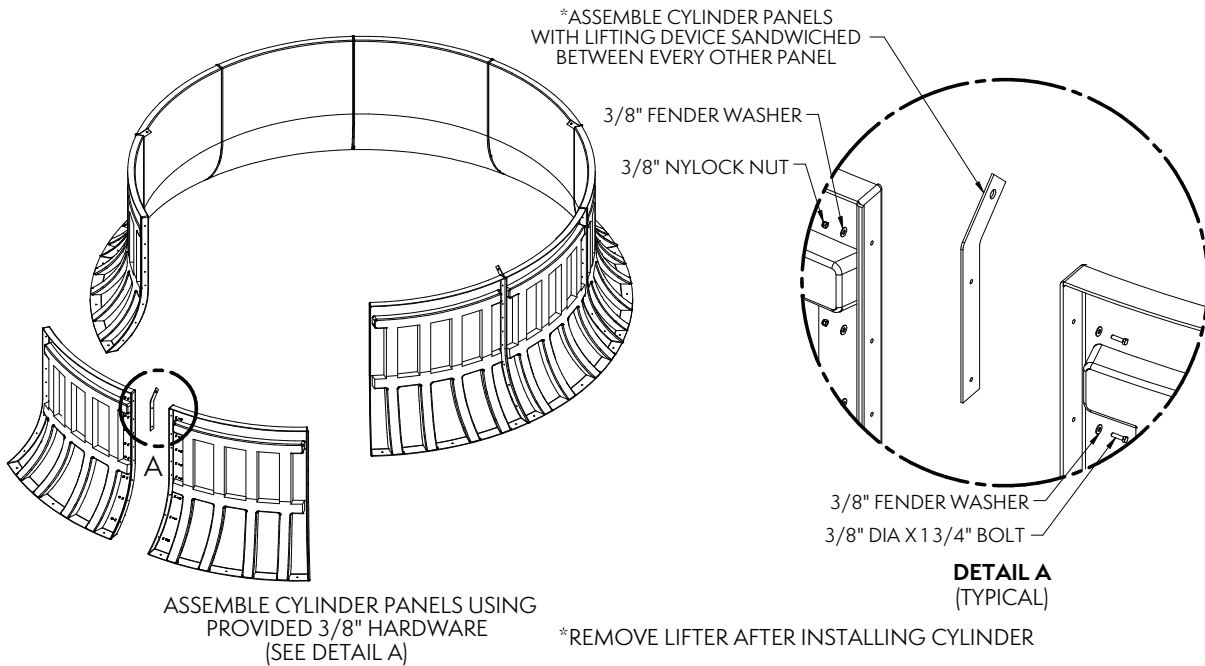


Figure 20 – Fan Cylinder Assembly

Units	Hardware Sizes
All ATLAS Units	3/8" (10 mm) Nuts, Bolts & Washers

Table 9 – Hardware Sizes

Fan Cylinder Rigging

Lower cylinder carefully around fan and drive shaft using the provided lifting ears. The hook of the crane must be a minimum of 17' above the lifting ears. Make sure fan assembly is centered within the cylinder before attaching to fan section. Measure the clearance between each fan tip and the cylinder with a tape measure, making sure it is 7/8" (22 mm) or less.

Fasten to fan deck using hardware in **Table 10**. Holes are to be drilled through the cylinder and fan deck in the field from outside the tower.

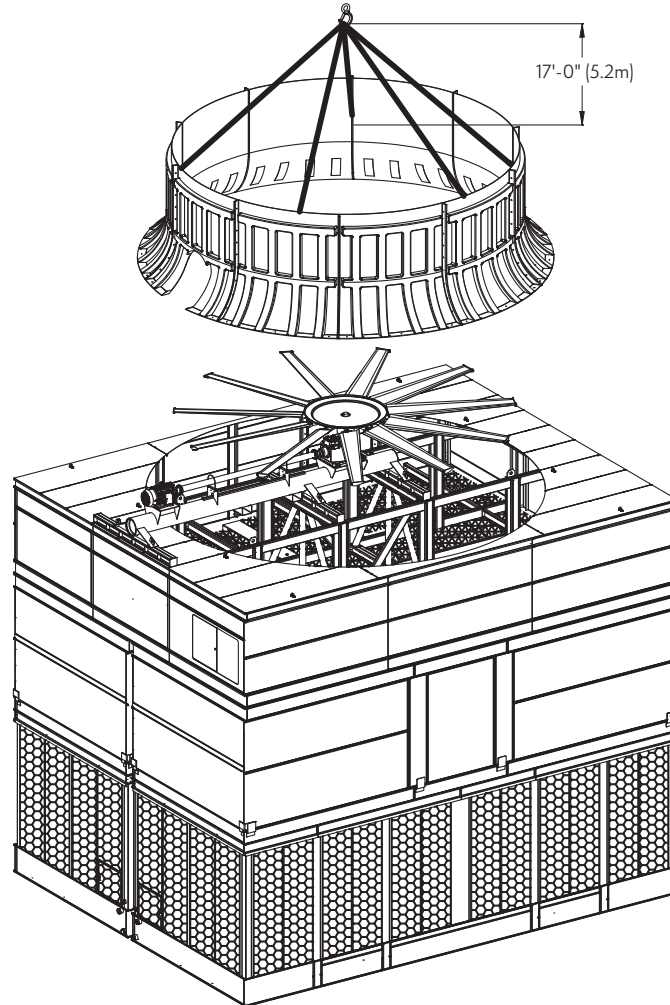


Figure 21 – Fan Cylinder Rigging

Units	Hardware Sizes
All ATLAS Units	3/8" (10 mm) Nuts, Bolts & Washers (Galvanized or Stainless)

Table 10 – Hardware Sizes

Fan Cylinder Sealing

After the fan cylinder is assembled and secured on the fan deck, caulk the seams of the cylinder. This is to be done from inside the unit. Caulk sealant must also be applied between the fan cylinder and the fan sections as well as around the torque tube.

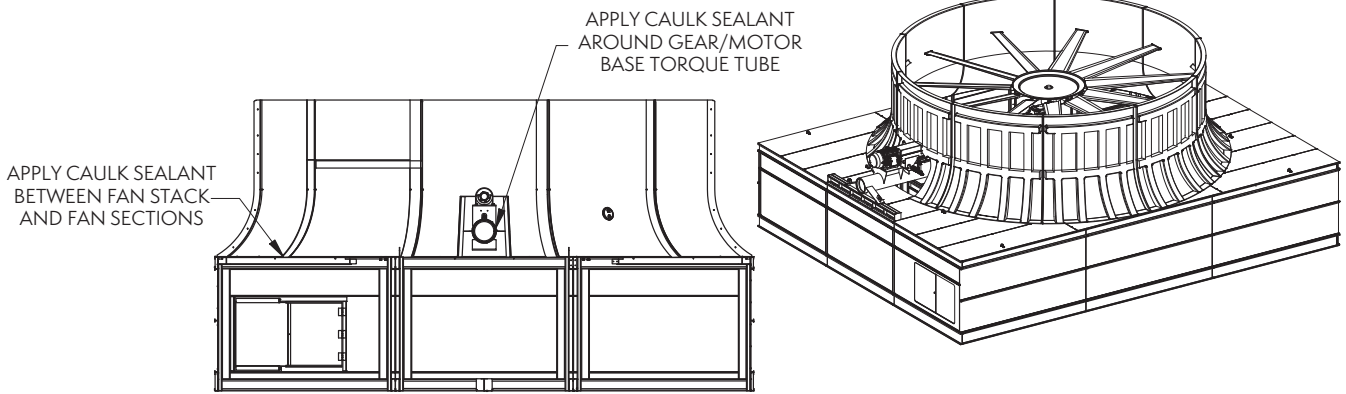


Figure 22 – Fan Cylinder Sealing

After fan, drive system, and fan cylinder are entirely assembled, rigged, and sealed, the fans must be balanced per the fan manufacturer's procedure. Contact your local EVAPCO representative for more information.



External Platform and Vertical Ladder Installation

If your unit is accessorized with an external service platform assembly with a vertical ladder, this equipment is shipped in the basin of your unit. In some cases, they are shipped separately due to other basin accessories that may interfere with storage. The platform is partially assembled prior to shipment to minimize field assembly.

Typically, there is one working platform and ladder assembly per cell. Refer to your factory submittal for details.

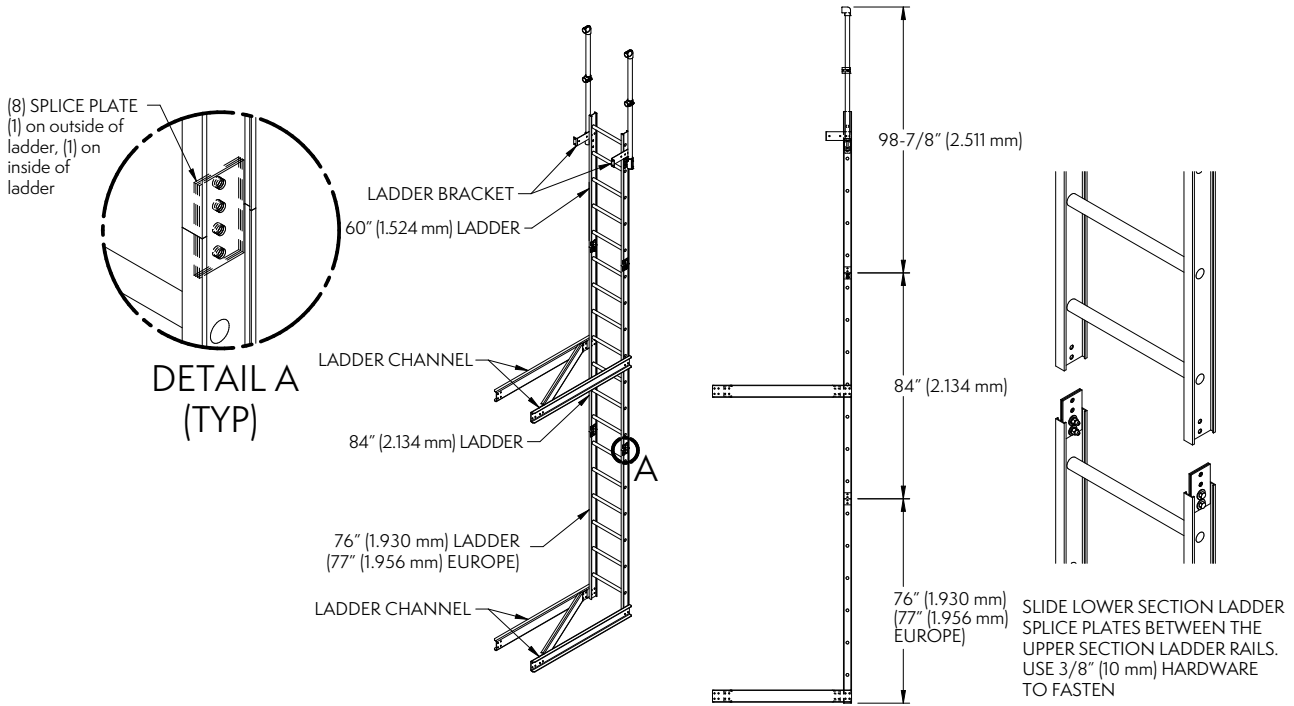
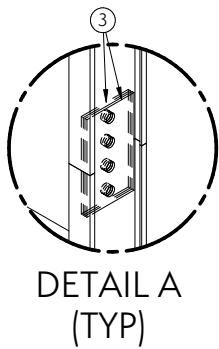


Figure 23 – Assembly of Vertical Ladder Accessory

Item	Description	Qty.
1	Upper Safety Cage	1
2	Lower Safety Cage	1
3	Ladder Splice Plate	8
4	60" (1.524 mm) Ladder	1
5	84" (2.134 mm) Ladder	1
6	76" (1.930 mm) Ladder (77" (1.956 mm) EUROPE)	1
7	Ladder Bracket	2
8	Ladder Channel	4



NOTE: 1) ATTACH ITEMS AS SHOWN USING 3/8" (10 mm) HARDWARE

Figure 24 – Assembly of Vertical Ladder Accessory with Safety Cage

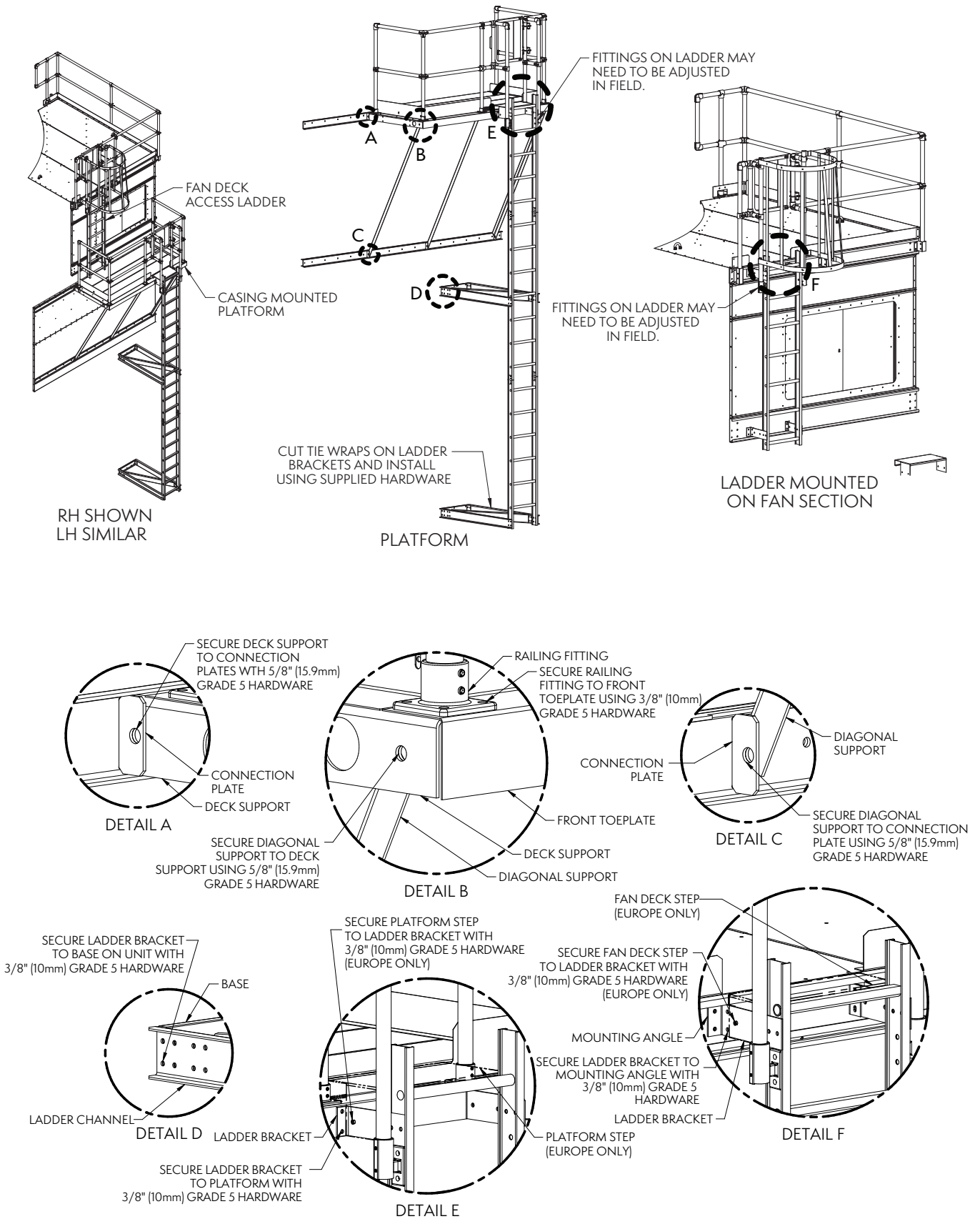


Figure 25 – Installing Vertical Ladder Accessory, with Details

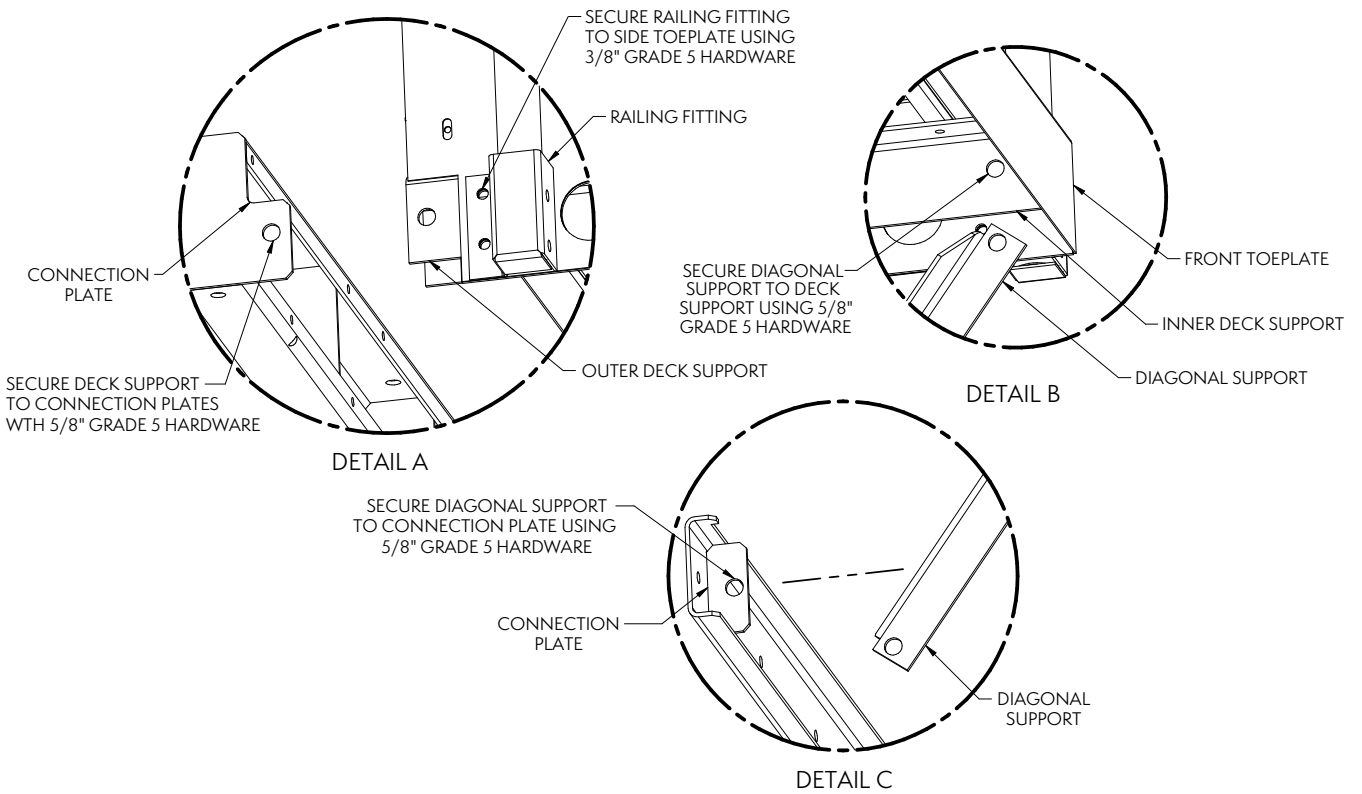
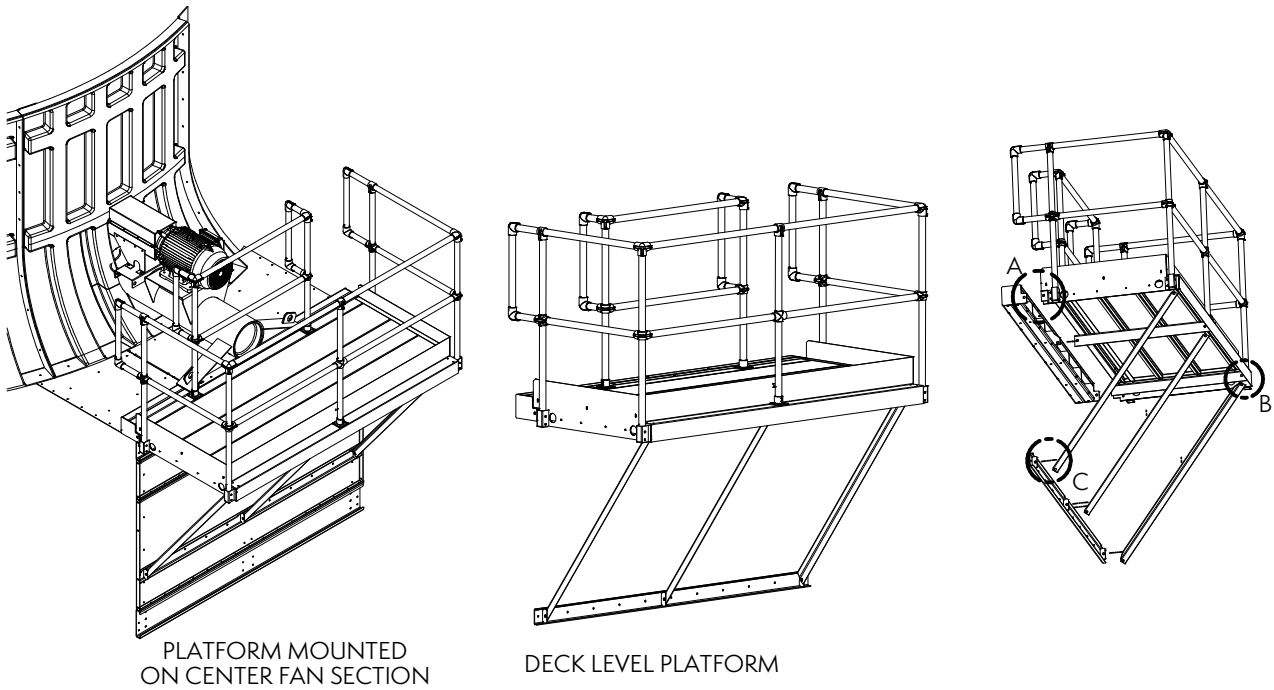
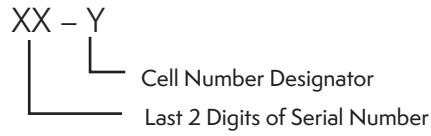


Figure 26 – Installing External Motor Walkaround Platform Accessory, with Details

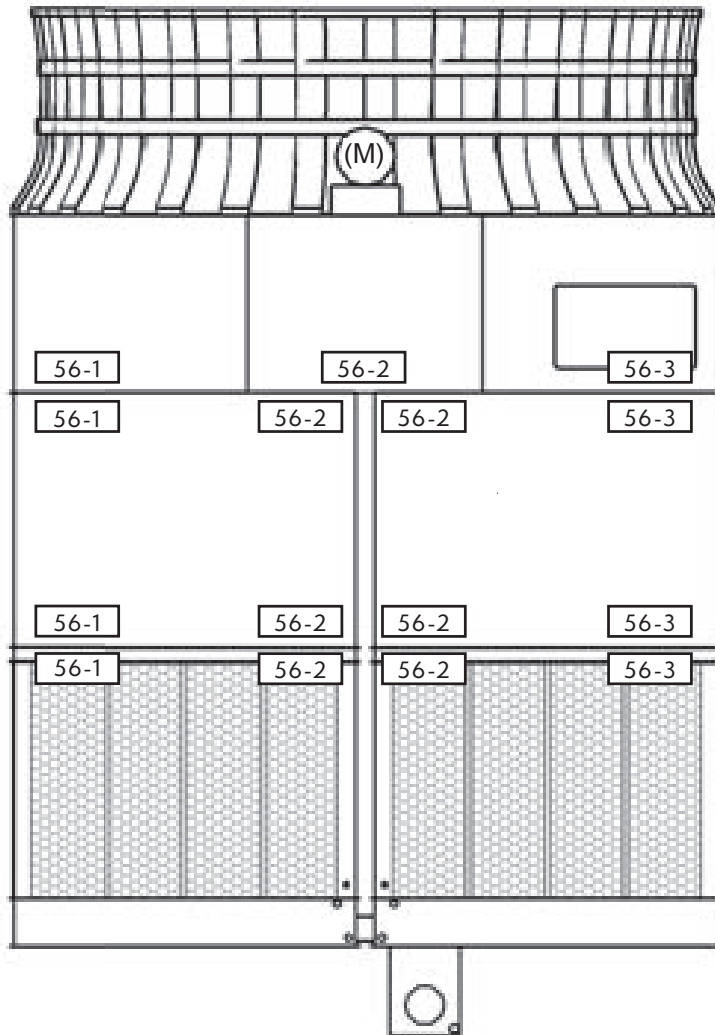
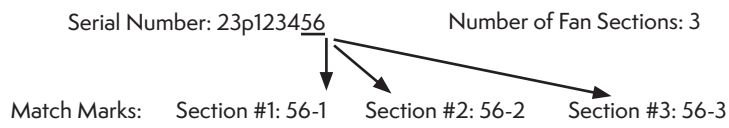


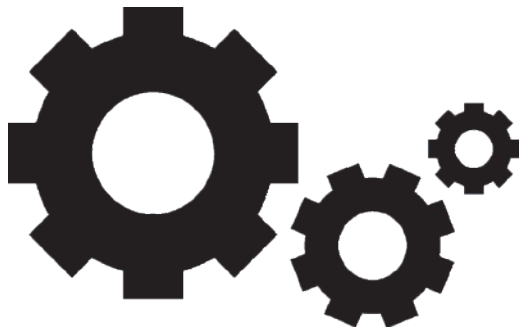
Appendix A

Units are provided with match markings on each section. Standard match marking location is at the rigging seam on the motor end of the unit. Standard match marking designation is shown below:



Example:





FOR EVAPCO AUTHORIZED PARTS AND SERVICE, CONTACT YOUR LOCAL EVAPCO REPRESENTATIVE OR THE LOCAL SERVICE CENTER



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