

## DOCKETED

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*Comment Received From: Daryn S Cline*

*Submitted On: 5/22/2015*

*Docket Number: 15-WATER-02*

## **Saving Water by using Hybrid Evaporative Coolers**

Commercial Air Conditioning and Industrial Processes often require large amounts of heat to be rejected and the most energy efficient method to do this is to use evaporative cooling. However, energy efficient evaporative cooling utilizes large volumes of fresh make up water, therefore it is recommended to use the best available technology to save make up water and energy...hybrid closed circuit coolers. Hybrid closed circuit coolers incorporate finned evaporative coils and additional dry coils for alternate wet/dry operation when the wet/dry bulb decreases, therefore saving thousands of gallons of water. In addition, this design also saves energy in the process. I recommend immediately specifying hybrid technology like EVAPCO's eco-coolers for retrofits and new construction in California to assist with saving water in your drought conditions. I have attached a catalog and a sample water and energy saving analysis based on recent water and sewer rates and annual weather analysis from San Diego, CA. The selection was based on 3750MBH, 73 wet bulb, the water savings was almost 30% versus a standard cooler, saving 412,000 gallons, and a great side benefit was the energy savings of 43% or 19,228 kwh annually. You can see the power costs used on the data sheet at .0944 \$/kwh. eco-coolers with its hybrid technology should be specified in all local jurisdictions. Thanks for the opportunity to submit our ideas and solutions! Daryn Cline-EVAPCO

*Additional submitted attachment is included below.*



# Water and Energy Analysis: Water Savings Priority

Date: 5/22/2015

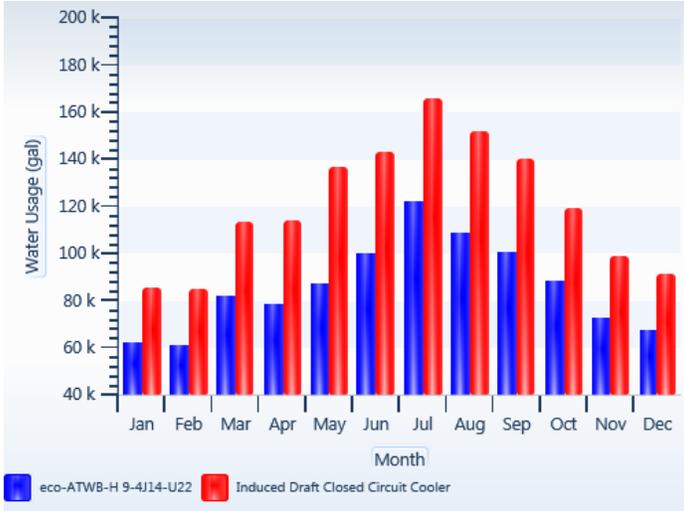
## eco-ATWB-H 9-4J14-U22 vs. Induced Draft Closed Circuit Cooler

Project :  
Equipment Ref.:

### Selection Criteria

Flow (GPM): 500.00 Capacity (MBH): 3750 Entering Fluid Temp (°F): 100.00 Leaving Fluid Temp (°F): 85.00	Fluid Type: Water Dry Bulb Switchover (°F): 27.72 Wet Bulb (°F): 73.00 % Dry Load: 13.58
Selected Weather Station: SAN DIEGO/LINDBERGH Operational Profile: Commercial HVAC (Northern Hemisphere) Week Days: 5 Weekend Days: 2	Cycles of Concentration: 3 Water Cost: 0.006 USD/gal Sewer Charges : 0.005 USD/gal Energy Cost: 0.0944 USD/kWh

Water Use in Water Savings Priority



Energy Use in Water Savings Priority



	Induced Draft Closed Circuit Cooler	eco-ATWB-H 9-4J14-U22	Water Saved
	Total gal	Total gal	
Jan	85,585	62,617	22,968
Feb	85,083	61,408	23,675
Mar	113,224	82,025	31,199
Apr	114,439	78,519	35,920
May	136,939	87,331	49,608
Jun	143,051	100,202	42,849
Jul	165,971	122,077	43,894
Aug	151,855	109,437	42,418
Sep	140,721	101,202	39,519
Oct	119,589	88,945	30,644
Nov	98,593	72,585	26,008
Dec	91,619	67,585	24,034
<b>Total</b>	<b>1,446,669</b>	<b>1,033,933</b>	<b>412,736</b>

	Induced Draft Closed Circuit Cooler	eco-ATWB-H 9-4J14-U22	kWh Saved
	Total kWh	Total kWh	
Jan	3,411	1,193	2,218
Feb	3,119	1,166	1,953
Mar	3,550	1,567	1,983
Apr	3,522	1,802	1,720
May	3,812	2,518	1,294
Jun	3,804	2,696	1,108
Jul	4,354	3,460	894
Aug	4,220	3,269	951
Sep	3,914	2,680	1,234
Oct	3,676	1,987	1,689
Nov	3,392	1,428	1,964
Dec	3,446	1,224	2,222
<b>Total</b>	<b>44,220</b>	<b>24,990</b>	<b>19,230</b>

	Induced Draft Closed Circuit Cooler	eco-ATWB-H 9-4J14-U22	Total Savings	
Estimated Total Usage (gal)	1,446,669	1,033,933	412,736	29%
Estimated Total Cost (USD)	11,057	7,918	3,139	29%

	Induced Draft Closed Circuit Cooler	eco-ATWB-H 9-4J14-U22	Total Savings	
Estimated Total Usage (kWh)	44,218	24,990	19,228	43%
Estimated Total Cost (USD)	4,174	2,359	1,815	43%

**Estimated Overall Total Cost Savings 4,954 USD**  
**ECO Yearly Plume: 0.75%; Comparison Yearly Plume: 31.04%**

Water and energy use and costs are estimates only and are provided for the purpose of comparing the performance of closed circuit coolers. Actual water/energy usage and costs will vary depending on weather, load profile, cycles of concentration and the control logic used to optimize system performance. Also, power, water and sewer costs are subject to local rates. The water and energy usage is calculated assuming a fixed outlet temperature and the use of variable frequency drives (VFDs). Projected energy use is for closed circuit coolers only, not total system energy use. The Temperature Profile generated to estimate water and energy usage is based on 5 Year weather data from the National Climatic Data Center (NCDC).



# eco-Hybrid Coolers

The NEW Family of Closed Circuit Coolers



**NEW!**  
**ARID** *fin Pak*<sup>™</sup>

**eco-ATWB-H**

**Sage**<sup>®</sup>  
CONTROL SYSTEM



**Environmentally Conscious Operation Hybrid**  
Providing Maximum Water Savings & Higher Dry Switchover Temperatures





Since its founding in 1976, EVAPCO, Incorporated has become an industry leader in the engineering and manufacturing of quality heat transfer products around the world. EVAPCO's mission is to provide first class service and quality products for the following markets:

- Industrial Refrigeration
- Commercial HVAC
- Industrial Process
- Power

EVAPCO's powerful combination of financial strength and technical expertise has established the company as a recognized manufacturer of market-leading products on a worldwide basis. EVAPCO is also recognized for the superior technology of their environmentally friendly product innovations in sound reduction and water management.

EVAPCO is an employee owned company with a strong emphasis on research & development and modern manufacturing plants. EVAPCO has earned a reputation for technological innovation and superior product quality by featuring products that are designed to offer these operating advantages:

- Higher System Efficiency
- Environmentally Friendly
- Lower Annual Operating Costs
- Reliable, Simple Operation and Maintenance

With an ongoing commitment to Research & Development programs, EVAPCO provides the most advanced products in the industry—**Technology for the Future, Available Today!**



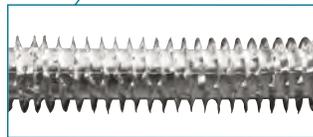
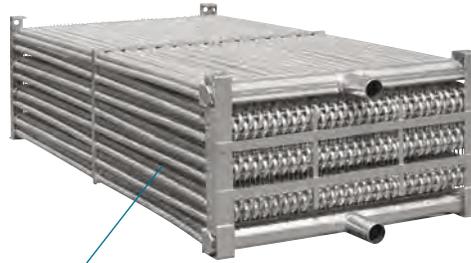
EVAPCO products are manufactured in 19 locations in 9 countries around the world and supplied through a sales network consisting of over 170 offices.

## Ellipti-fin®

### Featuring Elliptical Spiral Fin Coil Technology

Introducing the Most Efficient Closed Circuit Cooler Coil in the HVAC industry! The **Ellipti-fin®** provides:

- Increased Evaporative and Dry Cooling efficiency.
- Lower airflow resistance than finned round tubes.
- Patent pending **Ellipti-fin®** finned Thermal-Pak elliptical tube design.



CTI Certified



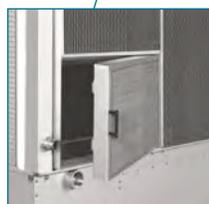
### Super Low Sound Fan (Optional)

- Extremely wide sloped fan blades for sound sensitive applications.
- One piece molded heavy duty construction.
- 9-15 dB(A) sound reduction.



### Most Accessible Basin

- Access from all four sides.
- Large open area simplifies maintenance.
- Basin may be inspected with pumps running.



### Featuring... Louver Access Door

- Louver access door is standard on models with 5 and 6 ft. tall louvers.
- Hinged access panel with quick release mechanism.
- Allows easy access to perform routine maintenance and inspection of the makeup assembly, strainer screen and basin.



# eco-ATWB-H *Design and Construction Features*

The **NEW** eco-ATWB-H Hybrid line of closed circuit coolers was designed with the purpose of providing maximum water savings, higher dry bulb switchover temperatures, while achieving plume abatement or elimination.

The eco-ATWB-H is provided with EVAPCO's new **ARID fin Pak™** dry coil. Utilizing stainless steel tubes and aluminum manganese fins, the **ARID fin Pak™** maximizes the total surface area available for sensible heat transfer, which results in maximum water savings and higher dry bulb switchover temperatures. Additionally, the eco-ATWB-H is provided with the highly efficient **Ellipti-fin®** coil in series with the **ARID fin Pak™**, achieving both latent and sensible cooling simultaneously. Located in the discharge airstream, the **ARID fin Pak™** heats the saturated discharge air, abating or eliminating the plume. Because the coils are in series, a significant portion of the heat load will always be dissipated through the dry cooling coil, saving water whenever it is in operation!

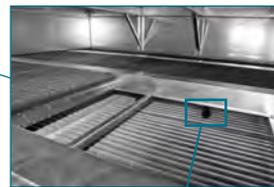
The eco-ATWB-H is the ideal solution for: Maximized Water Savings, Highest Dry Bulb Switchovers, Plume Reduction or Plume Abatement. This new closed circuit cooler product line is designed with IBC Compliant construction as well as CTI Certified Performance.



## ARID fin Pak™ Dry Cooling Coil

Featuring Stainless Steel Tubing with Aluminum Manganese Fins

- Maximizes Water Efficiency.
- Higher Dry Switchover Temperatures.
- Plume Elimination in Dry Mode.
- Plume Abatement in Evaporative Mode.
- Increases Evaporative and Dry Cooling Efficiency.



## Efficient Drift Eliminators

- Advanced design removes mist from the leaving airstream.
  - Made from corrosion resistant PVC for long life.
- (U.S. Patent No. 6315804)



## PVC Spray Distribution Header with ZMII® Nozzles

- Large orifice fixed position nozzles prevent clogging.
- Threaded end caps for ease of cleaning.

## Easy Field Assembly

- Self-guiding channels guide the coil casing section into position improving the quality of the field seam.
  - Eliminated up to 66% of fasteners.
- (Patent Pending)



## Optional Pulse~Pure® Water Treatment System Patent #: 7,704,364

- Control bacteria to levels well below traditional chemical water treatment.
- Control the formation of mineral scale.
- Save water by operating at higher cycles of concentration
- Yield corrosion rates equivalent to chemical water treatment.

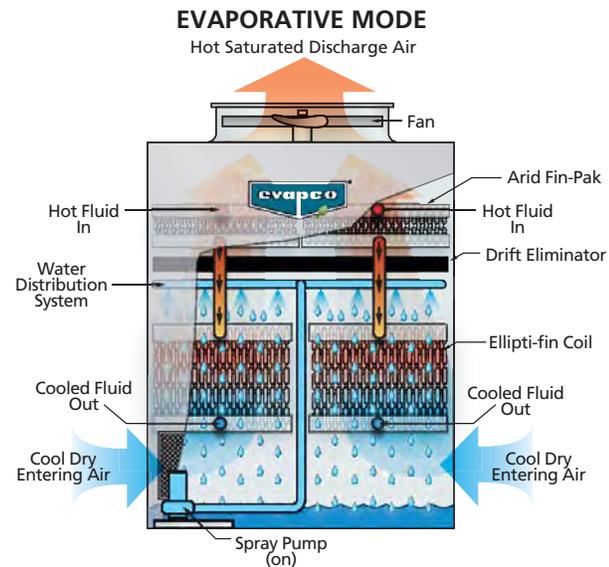
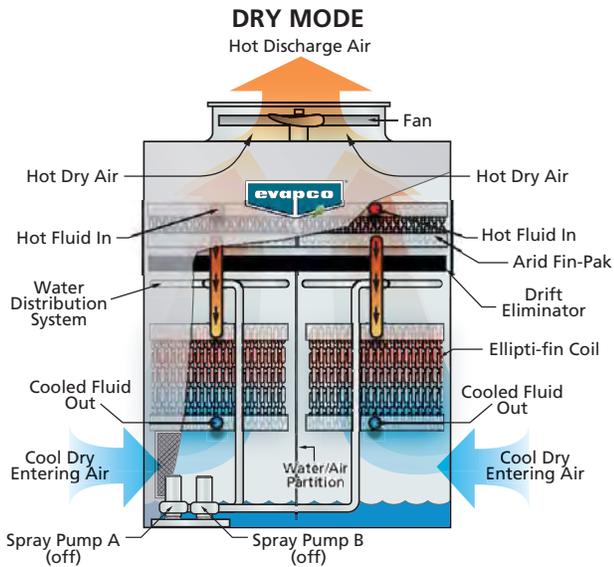


## WST II Air Inlet Louvers (Water and Sight Tight)

- Easily removable for access.
- Designed to keep sunlight out—preventing biological growth.
- Keeps water in while keeping dirt and debris out.

(Patent Pending)

# eco-ATWB-H PRINCIPLE OF OPERATION



## Dry Mode (Sensible Heat Transfer)

In the dry mode, the process fluid enters the **ARID fin Pak™** coil through the top coil connections. The fan motor is energized, while the spray pump is de-energized. The axial fan draws air upward through the louvers and across the coils. As the air passes over the **ARID fin Pak™** coil, a portion of the load is dissipated to the atmosphere through the tube walls and fins using sensible heat transfer. The warm process fluid exits the **ARID fin Pak™** coil, then enters the **Ellipti-fin®** coil through the factory installed piping. The remaining load is dissipated through the tube and extended surface fins of the **Ellipti-fin®** coil utilizing sensible heat transfer. The unit will remain in the dry mode of operation until the temperature set point can no longer be met. In this mode, **NO** water is used and plume is eliminated.

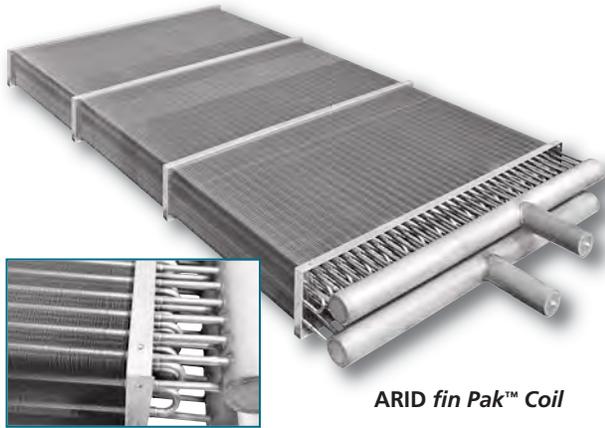
## Evaporative mode (Latent and Sensible Heat Transfer)

Once the temperature set point can no longer be met, the unit will switch to the Evaporative mode. This mode of operation in the eco-Hybrid utilizes evaporative and dry cooling simultaneously.

First, the process fluid enters the **ARID fin Pak™** coil through the top coil connections. The fan and pump motors are energized. A portion of the heat load is transferred through the tube walls and fins to the air passing over the **ARID fin Pak™** coil. No water is evaporated during this process. The warm process fluid exits the **ARID fin Pak™** coil, then enters the **Ellipti-fin®** coil through the factory installed piping. The spray system cascades water over the tubes of the **Ellipti-fin®** coil while heat is absorbed by the water. Air is drawn upward and over the coils by the axial fan. A small amount of the recirculating water is evaporated due to latent heat transfer through the tube and fin walls of the **Ellipti-fin®** coil. In this mode, water usage is reduced and plume is abated as the saturated discharge air is heated as it passes over the **ARID fin Pak™** coil.

## DESIGN BENEFITS

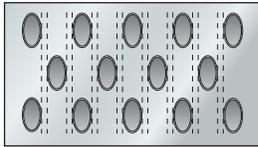
# eco-ATWB-H



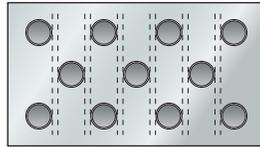
ARID fin Pak™ Coil

### ARID fin Pak™ Dry Cooling Coil

The new eco-ATWB-H Closed Circuit Cooler utilizes the **ARID fin Pak™** Dry Cooling Coil. Installed in the air discharge of the cooler the ARID fin Pak™ dry cooling coil is piped in series with the evaporative cooling coil. The **ARID fin Pak™** dry cooling coil is constructed of 304L Stainless Steel tubes and tubular Stainless Steel header with carbon steel coil connections for easy field piping. The fins have fully drawn collars to maintain consistent fin spacing and continuous surface contact over the entire tube to maximize heat transfer. The fins are constructed of Aluminum/Manganese alloy for superior corrosion resistance.



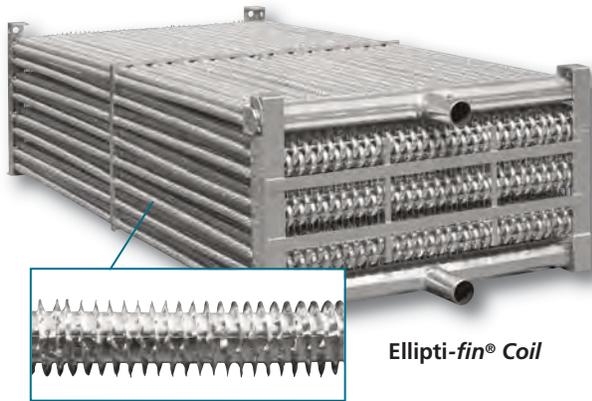
Thermal-Pak® Coil by EVAPCO



Round Tube Coil by Others

### Ellipti-fin® Cooling Coil

The new eco-ATWB-H Closed Circuit Cooler utilizes Evapco's patented **Ellipti-fin®** coil design which assures even greater operating efficiency. The elliptical tube design allows for closer tube spacing, resulting in greater surface area per unit plan area than round-tube coil designs. In addition, the revolutionary **Ellipti-fin®** design utilizes elliptical spiral fin coil technology which has an inherent air side pressure drop lower than finned round tube designs. This permits greater water loading, making the new **Ellipti-fin®** coil the most effective design available.



Ellipti-fin® Coil

The coils are manufactured from high quality steel tubing following the most stringent quality control procedures. Each circuit is inspected to ensure the material quality and then tested before being assembled into a coil. Finally, the assembled coil is pneumatically tested at 400 psig under water to ensure it is leak free.

To protect the coil against corrosion, it is placed in a heavy steel frame and then the entire assembly is dipped in molten zinc (hot-dip galvanized) at a temperature of approximately 800°F.

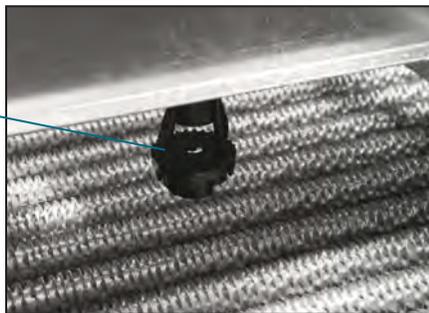
### Maintenance Free ZMII® Spray Nozzle Water Distribution System

EVAPCO'S Zero Maintenance ZMII® Spray Nozzle remains clog-free while providing even and constant water distribution for reliable, scale-free evaporative cooling under all operating conditions.

The heavy duty nylon ZMII® Spray nozzles have a 1-5/16" diameter opening and a 1-1/2" splash plate clearance. Furthermore, the fixed position ZMII® nozzles are mounted in corrosion-free PVC water distribution pipes that have threaded end caps. Together, these elements combine to provide unequalled coil coverage and scale prevention, making it the industry's best performing non-corrosive, maintenance-free water distribution system.



ZMII® Nozzle



# eco-ATWB-H MAINTENANCE ADVANTAGES



Patent #: 6,315,804

## Efficient Drift Eliminators

The eco-ATWB-H is equipped with an efficient drift eliminator system that effectively reduces entrained water droplets from the air discharge to less than 0.001% of the spray water flow rate.

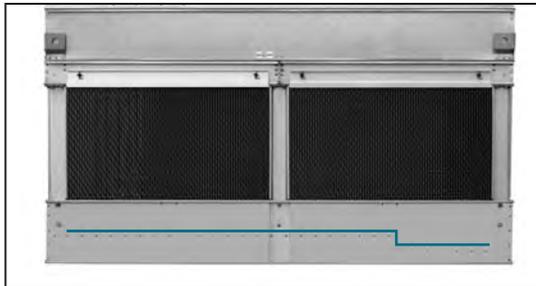
The eliminators are constructed of non-corrosive PVC with a multi-pass design for maximum drift reduction. They are assembled in modular sections for easy removal and access to the water distribution system.

In addition to reducing drift, the eliminators also function as effective debris screens which protect the spray system from sunlight and debris.



## Easy Access

The cold water basin is easily accessible from ground level. The basin is provided with removable framed louvers which are designed to protect the basin water from direct exposure to sunlight and debris. The louvers are light-weight and easy to remove. With the louvers removed, a service mechanic has complete access to the basin floor, float assembly and pump strainer. A louver access door is also provided for quick and easy inspection of the basin.



## Clean Pan

The basin of the closed circuit cooler is sloped toward the depressed area where the drain is located. With the "Clean Pan" design, it is easy for a service mechanic to flush the pan without getting wet feet. Other Fluid cooler designs may necessitate getting inside the unit for complete cleaning.



## Stainless Steel Strainers

The EVAPCO standard for many years, the stainless steel strainer is one component that is subject to excessive wear and corrosion. With stainless steel construction this component will last the life of the unit.

# MAINTENANCE ADVANTAGES **eco-ATWB-H**

## Easy Maintenance Drive System

The Evapco POWER-BAND drive system utilized on the eco-ATWB-H Closed Circuit Cooler is the easiest belt drive system to maintain in the industry. Unlike other designs, there is no need to enter the cold water basin to climb up the plenum for access to motors, bearings or belts. All routine and periodic maintenance on the drive system can be safely performed from the exterior of the unit. The most significant benefits and features of Evapco's drive system are detailed below.

### Models with Motors Mounted Externally

#### 8.5' and 17' Wide Models

The fan motor and drive assembly are designed for easy service and adjustment from the unit's exterior. The Totally Enclosed, Fan Cooled (TEFC) fan motor is mounted external to the unit with a protective cover which swings aside for maintenance. A large access door adjacent to the fan motor swings open enabling easy access to the fan drive system. The belt tension can be checked and adjusted easily from the outside of the unit. The fan shaft bearings also have their lubrication lines extended to the access door for added convenience. Note, these motors are shipped loose for field installment. Contact your Evapco sales representative for factory mounting options.



### Models with Swing-Out Motors

#### 10', 12', 20' and 24' Wide Models

The fan motor is Totally Enclosed, Air Over (TEAO) and specifically designed for evaporative cooling applications. The motor is mounted inside of the unit on an adjustable base that enables the motor to swing outside the unit for easy access. The belt tension is easily checked and adjusted from outside the access door. Evapco provides a special tool for belt adjustment which also functions as a locking mechanism for the motor base adjustment. Lubrication lines for the fan shaft bearings are also extended to the access door for added convenience.



Internal motor...



...with swing-out base

*Internally mounted fan motor can swing outside the unit for easy access.*

*With all periodic and routine maintenance for the drive system performed from the side of the unit, EVAPCO drive systems are the most serviceable in the industry.*

*Sloped access ladders, working platforms and motor davits are available as options to make maintenance even easier. See page 12, Optional Equipment, for details.*

# eco-ATWB-H DRIVE SYSTEM

## POWER-BAND Drive System Design

The eco-ATWB-H Closed Circuit Cooler features the highly successful POWER-BAND Belt Drive System. The POWER-BAND Drive System has performed consistently with trouble-free operation in the most severe conditions of closed circuit cooler applications. The reliability of the drive system is backed-up by a Five (5) Year complete drive system warranty.



POWER-BAND Belt



TEFC Fan Motor



TEAO Fan Motor

### POWER-BAND Drive System Includes:

- Solid back POWER-BAND drive belt
- Totally Enclosed Fan Motors
- Aluminum sheaves
- Fan shaft bearings with minimum 75,000 hrs. L-10 life
- 5 year drive system warranty

### POWER-BAND Belt Drive

The POWER-BAND drive is a solid-backed multigroove belt designed for closed circuit cooler service. The drive belt is sized for 150 percent of the motor nameplate horsepower and constructed of neoprene with polyester chords. Band belts are field-proven with over 20 years of field operation.

### Drive System Sheaves

Drive system sheaves are constructed of an aluminum alloy for corrosion resistance in the humid closed circuit cooler environment.

### Fan Shaft Bearings

The fan shaft bearings are specially selected to provide long life, minimizing costly downtime. They are rated for an L-10 life of 75,000 to 135,000 hours, making them the heaviest duty pillow block bearings in the industry.

### Fan Motors

All EVAPCO closed circuit coolers utilize totally enclosed fan motors (T.E.F.C. or T.E.A.O.) designed specifically for evaporative cooling applications. **Premium efficient** fan motors which are compatible with variable frequency drive (VFD) systems, come **standard** on all eco-ATWB-H models. Alternative fan motor options are available as follows:

- Two speed single winding
- Two speed two winding
- Mill and chemical duty
- Explosion proof

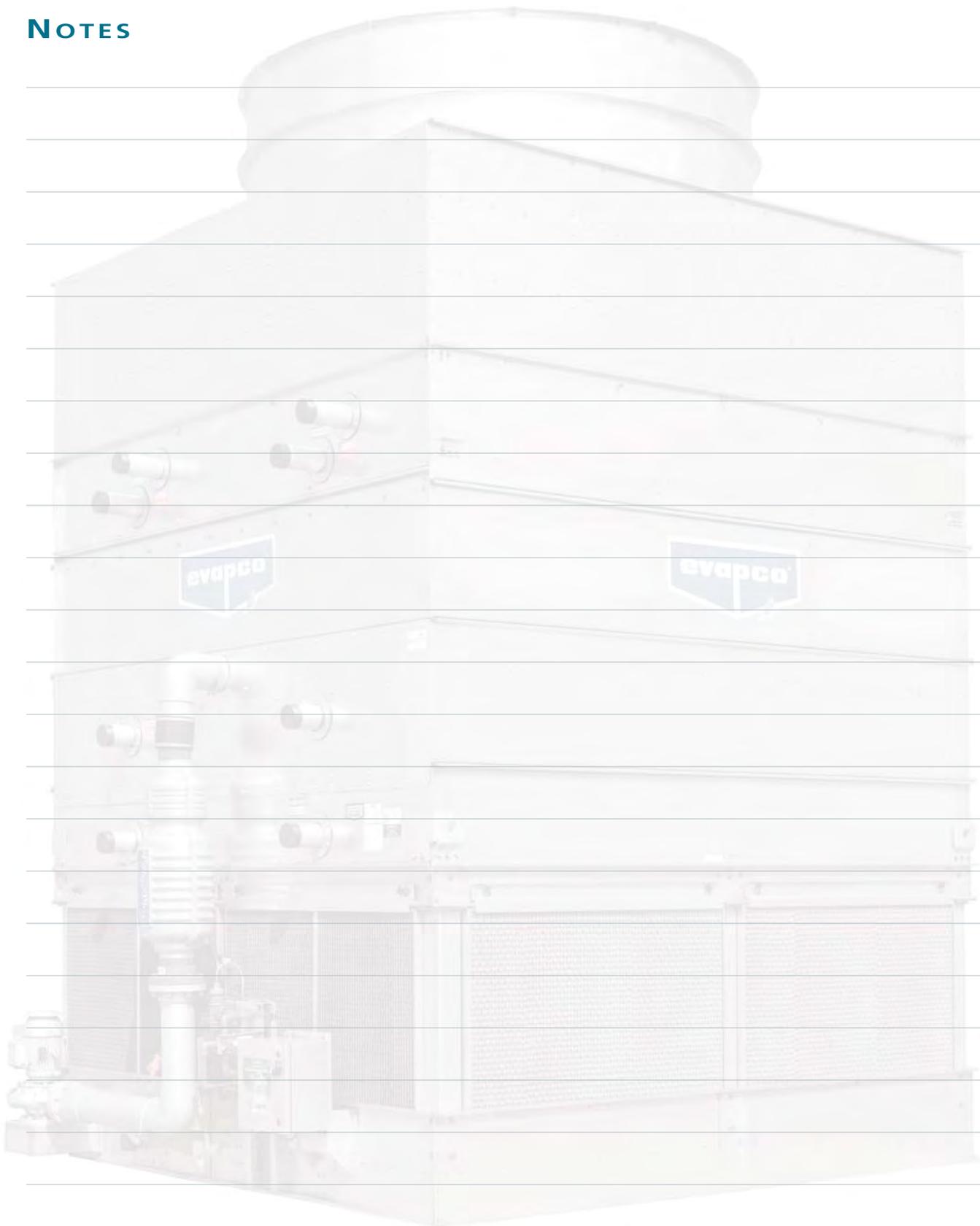
### Five Year Drive Warranty

EVAPCO provides a standard 5 year motor and drive warranty on all POWER-BAND drive systems. This warranty provides end users with complete protection against fan motor or drive component failure. The comprehensive warranty includes the fan, fan motor, fan shaft, belts, sheaves, and fan bearings.



# eco-ATWB-H

## NOTES



# eco-Hybrid WATER TREATMENT SOLUTIONS

## EVAPCO Water Systems

The **eco-ATWB-H** is available with EVAPCO's **Factory Mounted** water treatment systems. EVAPCO offers both a solid chemical and a non-chemical solution for water treatment to maintain your heat transfer efficiency and extend the life of the equipment. Each system has been specifically designed for your eco-cooler.

EVAPCO's Water Systems offer eco-ATWB-H owners a single-source of responsibility for equipment, water treatment, and service. Both Smart Shield® and Pulse~Pure® are manufactured and warranted by EVAPCO.

Benefits of adding an EVAPCO water treatment system include:

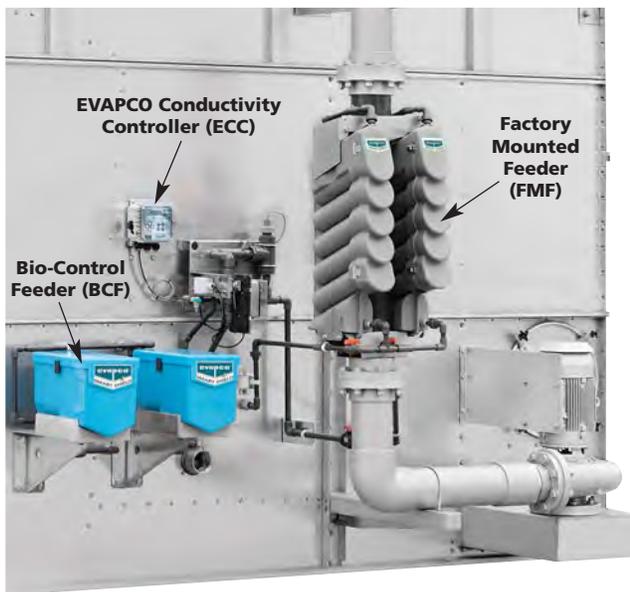
- **SAVE MONEY** by simplifying commission:
  - Single power connection is the only field installation requirement
- **Factory Mounting** your water treatment system ensures that it is installed to factory specifications.
- **Patented self-draining piping** eliminates the need for line insulation and heat tracing above the overflow level.
- **A Factory Authorized Service Partner** provides the first year of water system service and monitoring, to ensure proper operation and ongoing success.
- **Conductivity control package** maximizes water efficiency and features:
  - Low maintenance non-fouling torodial probe
  - USB port for downloadable 60 day audit trail of system operation
  - Motorized blowdown valve that provides the most reliable bleed control with power open / spring return operation.



## EVAPCO Water Systems



### Smart Shield® Solid Chemical Water Treatment System



EVAPCO's **Smart Shield®** system utilizes proven solid chemistry delivered via our revolutionary feed system. Patented controlled release scale and corrosion inhibitor is fed whenever your spray water pump is energized, keeping your system protected anytime the spray water pump is operating. **Smart Shield®** is a complete water treatment package that:

- Utilizes 'Bag in Bag' no touch chemical replenishments, making reloads easier and safer.
- Creates reduced packaging, shipping and handling providing a reduced carbon footprint compared to liquid chemicals.
- Eliminates the hazards associated with liquid chemicals, potential for liquid spills and the need for expensive feed pumps making it the easiest and safest chemical water treatment system available today



Watch a short product video at:  
[www.smartshield.evapco.com](http://www.smartshield.evapco.com)



### Pulse~Pure® Non-Chemical Water Treatment System



EVAPCO's **Pulse~Pure®** water treatment system utilizes pulsed electric field technology to provide an environmentally responsible alternative for the treatment of water in evaporative cooled equipment. The **Pulse~Pure®** system delivers short, high-frequency bursts of low energy electromagnetic fields to the recirculating water in the eco-ATWB-H.

- EVAPCO guarantees that total bacterial counts will not exceed 10,000 CFU/ml in the cooling water.
- Controls scale, corrosion, and microbiological growth with absolutely no chemicals required.
- Compact design with no moving parts and low energy consumption.

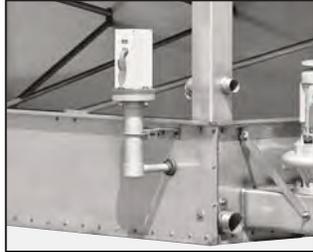


Learn More about **Pulse~Pure®**  
 online at: [www.evapco.com](http://www.evapco.com)

# eco-Hybrid OPTIONAL EQUIPMENT

## Electric Water Level Control

Closed circuit coolers may be ordered with an electric water level control in lieu of the standard mechanical float and make-up assembly. This package provides accurate control of water levels and does not require field adjustment.



## Stainless Steel Basin

EVAPCO coolers have a modular design which allows specific areas to be enhanced for increased corrosion protection. The basin area of the cooler experiences turbulent mixing of air and water, in addition to silt build-up. In conjunction with the EVAPCO Corrosion Protection System, EVAPCO offers an optional Stainless Steel Basin. This option provides Type 304 or 316 stainless steel for the entire basin area including the support columns of the cooler and the louver frames.



## Sloped Maintenance Ladders

The EVAPCO designed maintenance ladder features a sloped "ships type" ladder which provides visual inspection of the water distribution system and drive components. All standard drive system maintenance can be performed from the ladder. A handrail is attached to the sloped ladder for safe and easy ascent and descent. There is no need for safety cages with this design. The ladder will ship loose and must be field mounted. The design is OSHA compliant.



## Working Platform & Ladder with Davit

Eco-Coolers are available with a self-supported external working platform and ladder. Two separate platforms will allow easy access to the motor and drive system, water distribution system as well as the **ARID-fin Pak™** coil. The working platforms are constructed of the heavy duty galvanized steel. The OSHA compliant working platform option uses a straight ladder as standard and ships in sections for easy installation.



The optional davit eliminates crane rentals and facilitates the removal of motors and fans. The davit is constructed of aluminum for ease of use. When the davit is ordered, the galvanized steel bracket is mounted on the side of the unit. The Davit ships loose and is installed in the field.



## Solutions for Sound Sensitive Applications

**NOTE:** These low sound options may impact the overall installed dimensions of the eco-ATWB-H Closed Circuit Cooler selected.

### Super Low Sound Fan

9–15 dB(A) Reduction!



The Super Low Sound Fan offered by EVAPCO uses an extremely wide chord blade design for very sound sensitive applications where the lowest sound levels are required. The fan is one-piece molded heavy duty

FRP construction utilizing a forward swept blade design. The Super Low Sound fan is capable of reducing the unit sound pressure levels **9 dB(A) to 15 dB(A)**, depending on specific unit selection and measurement location. The fans are high efficiency axial propeller type.

*The Super Low Sound Fan is available on all 8.5 ft. and larger eco-Hybrid Closed Circuit Coolers.*

### Low Sound Fan

4–7 dB(A) Reduction!

The Low Sound Fan offered by EVAPCO uses a wide chord blade design for sound sensitive applications where low sound levels are desired.



Low Sound Fan construction uses aluminum blades and a steel fan hub. The Low Sound Fan is capable of reducing the unit sound pressure levels **4 dB(A) to 7dB(A)**, depending on specific

unit selection and measurement location. The fans are high efficiency axial propeller type.

### Fan Discharge Sound Attenuation

Up to 10 dB(A) Reduction!

The eco-ATWB-H Fan Discharge Attenuator offered by EVAPCO is an additional option available to further reduce the sound level of the unit. The attenuator can be used with the standard eco-Hybrid fan or in combination with the Low Sound Fan option.

The discharge attenuator is a factory-assembled straight-sided discharge hood designed to reduce overall discharge sound levels at full fan speed **5 dB(A) to 10 dB(A)**, depending on specific unit selection and



measurement location. It is constructed of G-235 galvanized steel as standard (options available for Type 304 stainless steel) and includes insulated walls and a low pressure drop baffling system that is acoustically lined with high density fiberglass. The discharge attenuator is self-supported by the unit and is shipped loose for field mounting. A heavy-gauge, hot-dip galvanized steel fan guard covers the discharge attenuator to prevent debris from entering the attenuator.

The discharge attenuator has minimal impact on unit thermal performance (0%-2% derate depending on specific unit selection).

### Water Silencer

Up to 7 dB(A) Reduction!

The water silencer option is available for all eco-Hybrid models and is located in the falling water area of the cold



water basin. The water silencer reduces the high frequency noise associated with the falling water and is capable of reducing overall sound levels **4 dB(A) to 7 dB(A)** measured at 5 ft. from the side or end of the unit.

The water silencers reduce overall sound levels 9 dB(A) to 12 dB(A) (depending on water loading and louver height) measured 5 ft. from the side or end of the unit when water is circulated with fans off.

The water silencers are constructed of lightweight PVC sections and can be easily removed for access to the basin area.

Consult EVAPCO's **Advanced Technology Low Sound Solutions** Bulletin No. 650-US for detailed product and specification information.

### Offset Sound Attenuation Walls

Offset Sound Attenuation Walls are EVAPCO's newest attenuation option for even greater levels of sound reduction when used in combination with the Super Low Sound Fan and Water Silencer options. The addition of Offset Sound Attenuation Walls will reduce the 50 ft. free field sound level



by an additional **3 dB(A)**. The walls are constructed of G-235 galvanized steel (stainless steel construction also available) lined with acoustical padding on the inside of the walls. This option requires external support by others.

## EVAPCO's Sage® ... Water and Energy



The eco-Hybrid closed circuit cooler is provided with the EVAPCO Sage<sup>2</sup>® Control System. This system operates the unit in a manner which will maximize water or energy savings. Control is accomplished by operating each cell of the eco-Hybrid in the **Evaporative Mode** or **Dry Mode** based on **water** or **energy savings priority**.

The Sage<sup>2</sup>® control system contains a Programmable Logic Controller (PLC) with adaptive logic, which allows the operator to select either a priority for maximizing water or energy efficiency. Real time load and weather data are measured and recorded by the PLC and sensors. This data is then analyzed and used to switch the unit between the various modes of operation in order to maximize water or energy savings. If the panel is set to operate in the **water savings priority**, the Sage Panel will vary the unit between the Dry and Evaporative modes of operation, limiting the time spent in the evaporative mode to maximize water savings. If the panel is set to operate in the **energy savings priority**, the Sage Panel will switch the unit between the Dry & Wet modes of operation, controlling the fan speed and pump operation in an effort to maximize energy savings.

### Panel Hardware and Features

- MODBUS 485 Port
- NEMA 4
- UL Approval
- Programmable Logic Control
- Variable Frequency Drive(s)
- Recirculating Pump Motor Starter(s)
- Fluid Inlet/Outlet Temperature Sensors with High and Low Alarm Set Points
- Basin Temperature Sensor(s)
- Ambient Dry Bulb Sensor
- Main Disconnect Circuit Breaker
- Main Hand/Off/Auto Switch (HOA)
- DC Power Supply for the PLC and Instruments
- Control Power Transformer
- Heater Contactor with Overload Protection and Temperature Set Points with Fusing
- 5-Probe Electronic Water Level Control Package
- High/Low Water Level Alarm Contacts
- Fan Motor: Space Heater Control(s)
- Relays for all PLC Digital Outputs
- Terminal Blocks for each PLC input/output
- Ethernet Connection between VFD(s), PLC and Operator Interface



### Control Features

- Manual Operation of Pumps and Fans
- Ability to Enable or Disable Make-Up Valve
- Power Failure Recovery Timer
- Ability to Perform Bump Test
- Visual Status Display of All Unit Components and Accessories
- Contacts and Counter To Record Water Usage
- Contacts and Analog Signal for (Customer Supplied) Conductivity Meter
- Backup with User Settings and Factory Settings
- Pump Run Time Recorder
- Fan Motor Run Time Recorder

## Conservation Control System

### HMI Panel Display

All Sage2 Control Panels are provided with a 10" touch screen operator interface with a color display. This allows for easy viewing and control at the panel.

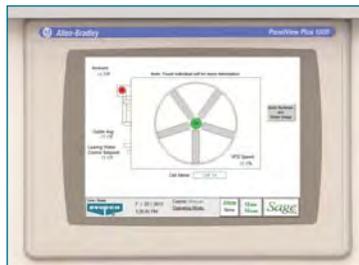


### Easy-to-use Touch Screen Navigation

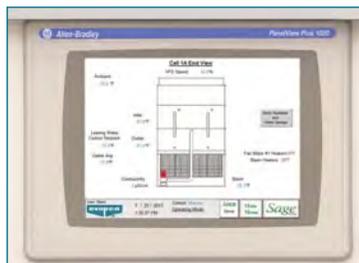
The panel boasts an easy to navigate menu which will allow the user to control each cell independently from other units and gather useful run time information at the unit.



*Alarm Setpoints Screen*



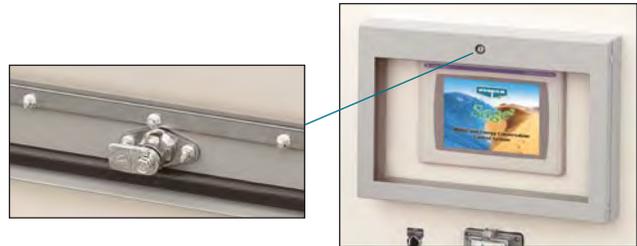
*Plan View Screen*



*End View Screen*

### Window Enclosure

The display screen is encased by a window enclosure. This enclosure protects the HMI display from the elements.



### Electric Water Level Control Package

When a Sage Panel is provided, a 5-probe Electronic Water Level Controller is standard. In addition to controlling the make-up valve, this controller contains two probes that can be utilized as High/Low water alarms. This controller will also be used as a safety device, shutting off the pump and heaters if the water level becomes too low.

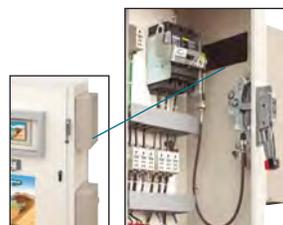
### Temperature Sensors (Field Installed)

Four separate temperature data points are monitored with this package.

- Inlet Temperature Sensor: 32°F – 212°F range
- Outlet Temperature Sensor: 32°F – 212°F range
- Dry Bulb Temperature Sensor: -30°F – 130°F range
- Basin Temperature Sensor: 32°F – 212°F range

### Enclosure Temperature Control

The panel enclosure includes an intake and an exhaust ventilation fan or air conditioner dependant on project location. When the enclosure temperature rises to a predetermined set point, the exhaust fans are activated. The enclosure also contains a heater. The heater eliminates the drastic temperature changes which could create condensation inside of the enclosure.



*Fan*

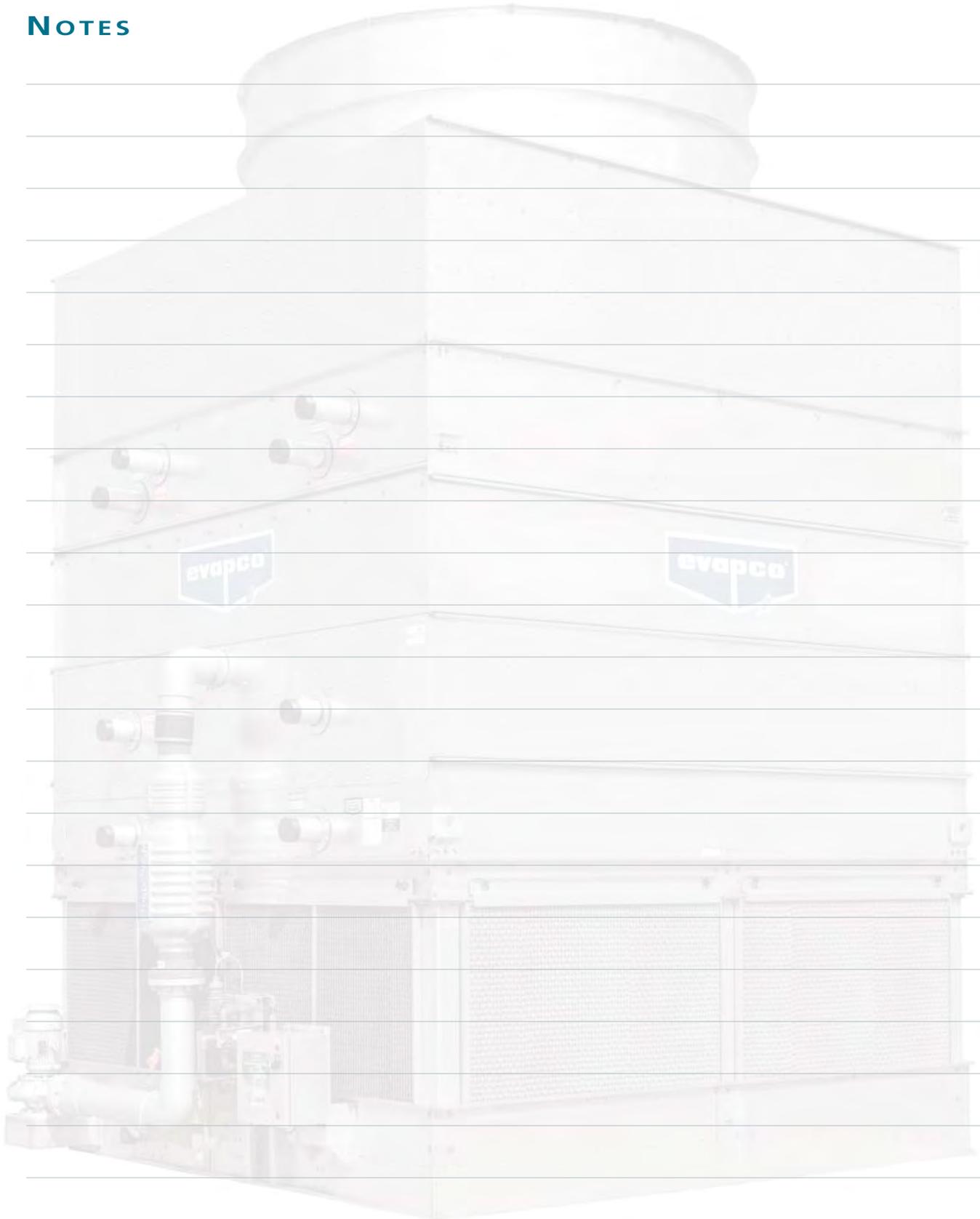


*Heater*

**\*Optional Communication Protocol May Be Available.  
Please Contact Your Local Sales Representative.**

# eco-Hybrid

## NOTES



21-3/8

(2) 4 BFW  
FLUID IN

# eco-ATWB-H

ACCESS  
DOOR

(2) 4 BFW  
FLUID OUT

(2) 1/2 FPT VENT

## THERMAL PERFORMANCE

## ENGINEERING DATA

## & DIMENSIONS

23-1/8

2 MPT  
MAKE-UP

2 MPT  
DRAIN

3 MPT  
OVERFLO

3

4-1/4

4-1/4

67-1/4

8' 5-1/2"

20-1/4

10' 5-1/2"



21-3/8

(2) 4 BFW  
FLUID IN

A

2 MPT  
MAKE-UP

23-1/8

2 MPT  
DRAIN

3 MPT  
OVERFLOW

15

3

5-1/4

4-1/4

67-1/4

8' 5-1/2"

29-3/4

18' 0"

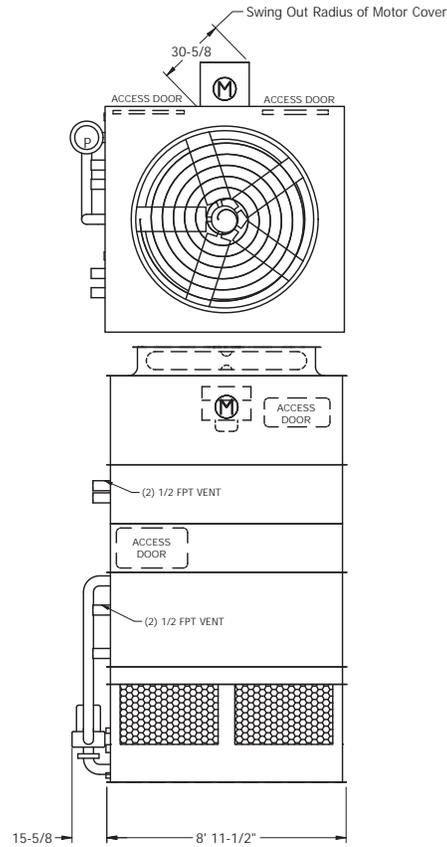
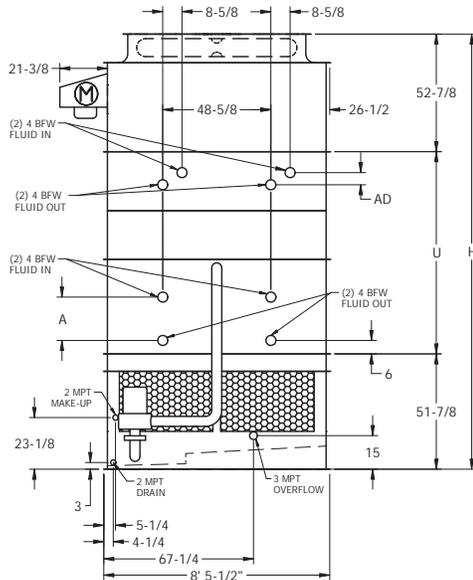
ACCESS  
DOOR



# eco-ATWB-H

## Engineering Data & Dimensions

### eco-ATWB-H Models 9-1H9 to 9-4K9



**Note:** The below table lists base unit dimensions and weights. See the table at the bottom Right of the Page for dry coil section dimensions and weight adds.  
**Note:** The number of coil connections doubles when the flow rate exceeds 900 GPM on eco-ATWB-H 9x9 models. This required option is referred to as the High Flow coil configuration.

eco-ATWB-H Model Number†	Weights (lbs)			Fans		Spray Pump		Wet Coil Volume (Gallons)	Remote Sump <sup>△</sup>			Dimensions (ft./in.)			
	Shipping	Heaviest Section††	Operating	HP	CFM	HP	GPM		Gallons Required	Conn. Size	Operating Weight (lbs)	Height H	Length L	Upper U	Coil A
eco-ATWB-H 9-1H9	6,170	2,760	9,100	7.5	39,850	2	410	65	250	8"	7,820	15' 1-1/2"	8' 11-1/2"	6' 4-1/2"	5-1/2"
eco-ATWB-H 9-1I9	6,180	2,760	9,110	10	43,860	2	410	65	250	8"	7,830	15' 1-1/2"	8' 11-1/2"	6' 4-1/2"	5-1/2"
eco-ATWB-H 9-1J9	6,310	2,760	9,240	15	49,340	2	410	65	250	8"	7,960	15' 1-1/2"	8' 11-1/2"	6' 4-1/2"	5-1/2"
eco-ATWB-H 9-1K9	6,370	2,760	9,300	20	53,480	2	410	65	250	8"	8,020	15' 1-1/2"	8' 11-1/2"	6' 4-1/2"	5-1/2"
eco-ATWB-H 9-2H9	8,080	4,670	11,430	7.5	38,750	2	410	115	250	8"	10,150	15' 8"	8' 11-1/2"	6' 11"	12"
eco-ATWB-H 9-2I9	8,090	4,670	11,440	10	42,650	2	410	115	250	8"	10,160	15' 8"	8' 11-1/2"	6' 11"	12"
eco-ATWB-H 9-2J9	8,220	4,670	11,570	15	47,980	2	410	115	250	8"	10,290	15' 8"	8' 11-1/2"	6' 11"	12"
eco-ATWB-H 9-2K9	8,280	4,670	11,630	20	52,010	2	410	115	250	8"	10,350	15' 8"	8' 11-1/2"	6' 11"	12"
eco-ATWB-H 9-3H9	9,680	6,270	13,440	7.5	37,660	2	410	165	250	8"	12,160	16' 3-1/2"	8' 11-1/2"	7' 6-1/2"	19-1/2"
eco-ATWB-H 9-3I9	9,690	6,270	13,450	10	41,440	2	410	165	250	8"	12,170	16' 3-1/2"	8' 11-1/2"	7' 6-1/2"	19-1/2"
eco-ATWB-H 9-3J9	9,820	6,270	13,580	15	46,620	2	410	165	250	8"	12,300	16' 3-1/2"	8' 11-1/2"	7' 6-1/2"	19-1/2"
eco-ATWB-H 9-3K9	9,880	6,270	13,640	20	50,540	2	410	165	250	8"	12,360	16' 3-1/2"	8' 11-1/2"	7' 6-1/2"	19-1/2"
eco-ATWB-H 9-4H9	11,290	7,880	15,470	7.5	36,560	2	410	215	250	8"	14,190	16' 11"	8' 11-1/2"	8' 2"	27"
eco-ATWB-H 9-4I9	11,300	7,880	15,480	10	40,240	2	410	215	250	8"	14,200	16' 11"	8' 11-1/2"	8' 2"	27"
eco-ATWB-H 9-4J9	11,430	7,880	15,610	15	45,270	2	410	215	250	8"	14,330	16' 11"	8' 11-1/2"	8' 2"	27"
eco-ATWB-H 9-4K9	11,490	7,880	15,670	20	49,060	2	410	215	250	8"	14,390	16' 11"	8' 11-1/2"	8' 2"	27"

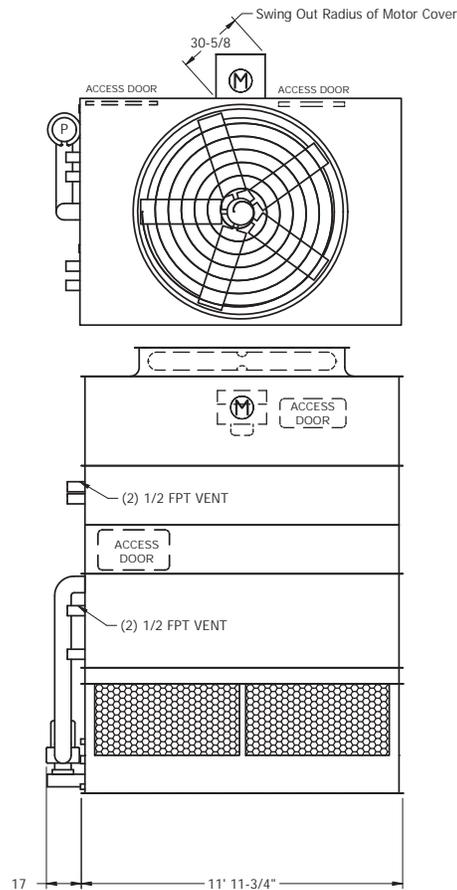
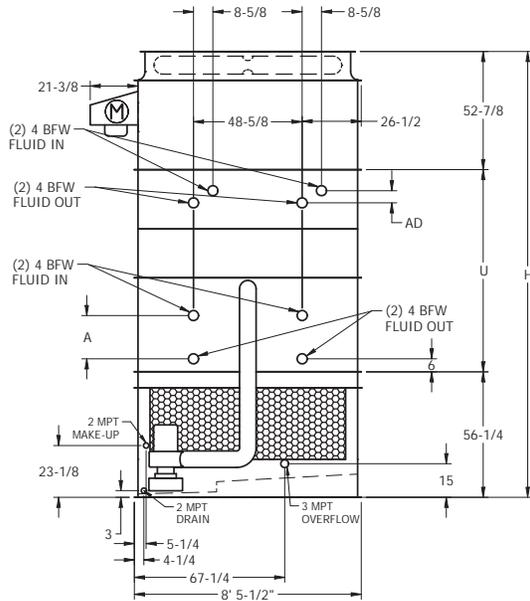
- † Model Numbers end in "-Z" for units with Series Flow piping configuration. Series Flow units may require additional coil connections and will require crossover piping.
- †† Heaviest section is the ARID Fin-Pak™ section and Ellipti-fin® coil sections shipped mounted together.
- \* Gallons shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation (12" would normally be sufficient).
- △ When a remote sump arrangement is selected, the spray pump, suction strainer and associated piping are omitted; the unit is provided with an oversized outlet to facilitate drainage to the remote sump.
- ▲ Unit dimensions and coil connections may vary slightly from catalog. See factory certified prints for dimensions, quantity of coil connections, and piping configuration. Coil connections are 4" bevel for weld (BFW), also available as options. Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Dry Coil Section Adds				
ARID Fin-Pak Coil Rows	Coil Volume (gallons)	Shipping Weight (lbs)	Operating Weight (lbs)	Coil AD (in.)
2	12	1830	1930	5-1/2"
4	22	2280	2470	5-1/2"
6	34	2720	3010	6-7/8"
8	46	3170	3560	9-1/2"

# eco-ATWB-H

## Engineering Data & Dimensions

### eco-ATWB-H Models 9-1112 to 9-4L12



**Note:** The below table lists base unit dimensions and weights. See the table at the bottom Right of the Page for dry coil section dimensions and weight adds.  
**Note:** The number of coil connections doubles when the flow rate exceeds 900 GPM on eco-ATWB-H 9x12 models. This required option is referred to as the High Flow coil configuration.

eco-ATWB-H Model Number†	Weights (lbs)			Fans		Spray Pump		Wet Coil Volume (Gallons)	Remote Sump <sup>△</sup>			Dimensions (ft./in.)			
	Shipping	Heaviest Section††	Operating	HP	CFM	HP	GPM		Gallons Required	Conn. Size	Operating Weight (lbs)	Height H	Length L	Upper U	Coil A
eco-ATWB-H 9-1112	7,580	3,420	11,610	10	53,240	5	570	82	330	10"	9,830	15' 5-7/8"	11' 11-3/4"	6' 4-1/2"	5-1/2"
eco-ATWB-H 9-1112	7,710	3,420	11,740	15	60,830	5	570	82	330	10"	9,960	15' 5-7/8"	11' 11-3/4"	6' 4-1/2"	5-1/2"
eco-ATWB-H 9-1K12	7,770	3,420	11,800	20	65,940	5	570	82	330	10"	10,020	15' 5-7/8"	11' 11-3/4"	6' 4-1/2"	5-1/2"
eco-ATWB-H 9-1L12	7,800	3,420	11,830	25	70,190	5	570	82	330	10"	10,050	15' 5-7/8"	11' 11-3/4"	6' 4-1/2"	5-1/2"
eco-ATWB-H 9-2112	9,860	5,700	14,450	10	51,780	5	570	149	330	10"	12,670	16' 3/8"	11' 11-3/4"	6' 11"	12"
eco-ATWB-H 9-2J12	9,990	5,700	14,580	15	59,160	5	570	149	330	10"	12,800	16' 3/8"	11' 11-3/4"	6' 11"	12"
eco-ATWB-H 9-2K12	10,050	5,700	14,640	20	64,120	5	570	149	330	10"	12,860	16' 3/8"	11' 11-3/4"	6' 11"	12"
eco-ATWB-H 9-2L12	10,080	5,700	14,670	25	68,260	5	570	149	330	10"	12,890	16' 3/8"	11' 11-3/4"	6' 11"	12"
eco-ATWB-H 9-3112	12,110	7,950	17,260	10	50,310	5	570	216	330	10"	15,480	16' 7-7/8"	11' 11-3/4"	7' 6-1/2"	19-1/2"
eco-ATWB-H 9-3J12	12,240	7,950	17,390	15	57,490	5	570	216	330	10"	15,610	16' 7-7/8"	11' 11-3/4"	7' 6-1/2"	19-1/2"
eco-ATWB-H 9-3K12	12,300	7,950	17,450	20	62,310	5	570	216	330	10"	15,670	16' 7-7/8"	11' 11-3/4"	7' 6-1/2"	19-1/2"
eco-ATWB-H 9-3L12	12,330	7,950	17,480	25	66,330	5	570	216	330	10"	15,700	16' 7-7/8"	11' 11-3/4"	7' 6-1/2"	19-1/2"
eco-ATWB-H 9-4112	14,300	10,140	20,010	10	48,850	5	570	283	330	10"	18,230	17' 3-3/8"	11' 11-3/4"	8' 2"	27"
eco-ATWB-H 9-4J12	14,430	10,140	20,140	15	55,810	5	570	283	330	10"	18,360	17' 3-3/8"	11' 11-3/4"	8' 2"	27"
eco-ATWB-H 9-4K12	14,490	10,140	20,200	20	60,490	5	570	283	330	10"	18,420	17' 3-3/8"	11' 11-3/4"	8' 2"	27"
eco-ATWB-H 9-4L12	14,520	10,140	20,230	25	64,390	5	570	283	330	10"	18,450	17' 3-3/8"	11' 11-3/4"	8' 2"	27"

- † Model Numbers end in "-Z" for units with Series Flow piping configuration. Series Flow units may require additional coil connections and will require crossover piping.
- †† Heaviest section is the ARID *Fin-Pak*™ section and Ellipti-*fin*® coil sections shipped mounted together.
- \* Gallons shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation (12" would normally be sufficient).
- △ When a remote sump arrangement is selected, the spray pump, suction strainer and associated piping are omitted; the unit is provided with an oversized outlet to facilitate drainage to the remote sump.
- ▲ Unit dimensions and coil connections may vary slightly from catalog. See factory certified prints for dimensions, quantity of coil connections, and piping configuration. Coil connections are 4" bevel for weld (BFW), also available as options. Other connection types such as grooved for mechanical coupling or flanged are also available as options.

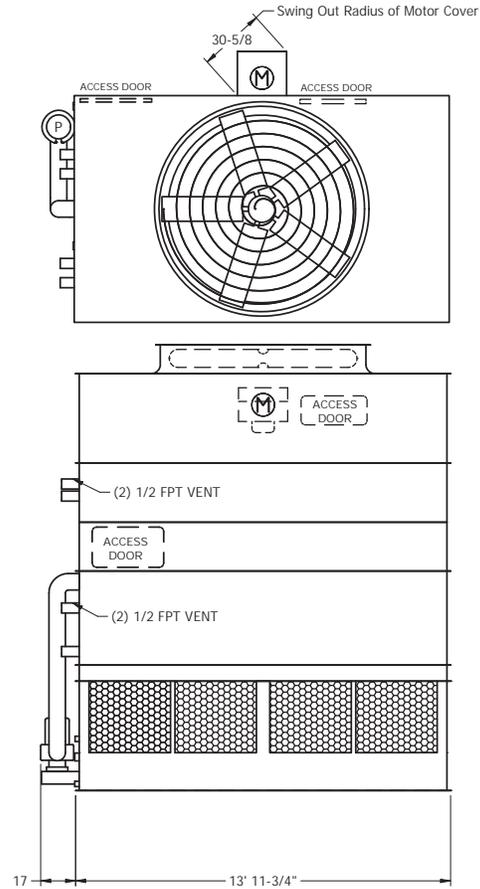
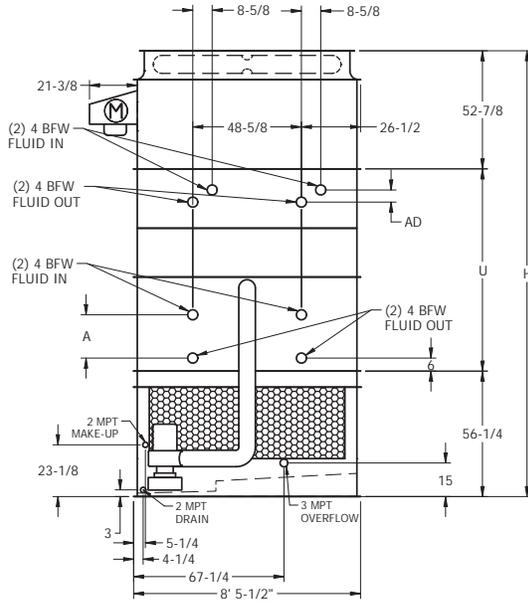
Dry Coil Section Adds				
ARID Fin-Pak Coil Rows	Coil Volume (gallons)	Shipping Weight (lbs)	Operating Weight (lbs)	Coil AD (in.)
2	15	2180	2300	5-1/2"
4	31	2780	3040	5-1/2"
6	46	3380	3770	6-7/8"
8	61	3980	4500	9-1/2"



# eco-ATWB-H

## Engineering Data & Dimensions

### eco-ATWB-H Models 9-1114 to 9-4M14



**Note:** The below table lists base unit dimensions and weights. See the table at the bottom Right of the Page for dry coil section dimensions and weight adds.  
**Note:** The number of coil connections doubles when the flow rate exceeds 900 GPM on eco-ATWB-H 9x14 models. This required option is referred to as the High Flow coil configuration.

eco-ATWB-H Model Number†	Weights (lbs)			Fans		Spray Pump		Wet Coil Volume (Gallons)	Remote Sump <sup>△</sup>			Dimensions (ft./in.)			
	Shipping	Heaviest Section††	Operating	HP	CFM	HP	GPM		Gallons Required	Conn. Size	Operating Weight (lbs)	Height H	Length L	Upper U	Coil A
eco-ATWB-H 9-1114	9,500	4,990	14,170	10	59,020	5	650	93	380	10"	12,140	15' 5-7/8"	13' 11-3/4"	6' 4-1/2"	5-1/2"
eco-ATWB-H 9-1J14	9,630	4,990	14,300	15	67,560	5	650	93	380	10"	12,270	15' 5-7/8"	13' 11-3/4"	6' 4-1/2"	5-1/2"
eco-ATWB-H 9-1K14	9,690	4,990	14,360	20	73,700	5	650	93	380	10"	12,330	15' 5-7/8"	13' 11-3/4"	6' 4-1/2"	5-1/2"
eco-ATWB-H 9-1L14	9,720	4,990	14,390	25	78,450	5	650	93	380	10"	12,360	15' 5-7/8"	13' 11-3/4"	6' 4-1/2"	5-1/2"
eco-ATWB-H 9-2I14	11,230	6,720	16,550	10	57,400	5	650	172	380	10"	14,520	16' 3/8"	13' 11-3/4"	6' 11"	12"
eco-ATWB-H 9-2J14	11,360	6,720	16,680	15	65,710	5	650	172	380	10"	14,650	16' 3/8"	13' 11-3/4"	6' 11"	12"
eco-ATWB-H 9-2K14	11,420	6,720	16,740	20	71,670	5	650	172	380	10"	14,710	16' 3/8"	13' 11-3/4"	6' 11"	12"
eco-ATWB-H 9-2L14	11,450	6,720	16,770	25	76,290	5	650	172	380	10"	14,740	16' 3/8"	13' 11-3/4"	6' 11"	12"
eco-ATWB-H 9-3I14	13,770	9,260	19,750	10	55,770	5	650	250	380	10"	17,720	16' 7-7/8"	13' 11-3/4"	7' 6-1/2"	19-1/2"
eco-ATWB-H 9-3J14	13,900	9,260	19,880	15	63,850	5	650	250	380	10"	17,850	16' 7-7/8"	13' 11-3/4"	7' 6-1/2"	19-1/2"
eco-ATWB-H 9-3K14	13,960	9,260	19,940	20	69,640	5	650	250	380	10"	17,910	16' 7-7/8"	13' 11-3/4"	7' 6-1/2"	19-1/2"
eco-ATWB-H 9-3L14	13,990	9,260	19,970	25	74,130	5	650	250	380	10"	17,940	16' 7-7/8"	13' 11-3/4"	7' 6-1/2"	19-1/2"
eco-ATWB-H 9-4J14	16,420	11,780	23,060	15	61,990	5	650	329	380	10"	21,030	17' 3-3/8"	13' 11-3/4"	8' 2"	27"
eco-ATWB-H 9-4K14	16,480	11,780	23,120	20	67,620	5	650	329	380	10"	21,090	17' 3-3/8"	13' 11-3/4"	8' 2"	27"
eco-ATWB-H 9-4L14	16,510	11,780	23,150	25	71,970	5	650	329	380	10"	21,120	17' 3-3/8"	13' 11-3/4"	8' 2"	27"
eco-ATWB-H 9-4M14	16,560	11,780	23,200	30	75,740	5	650	329	380	10"	21,170	17' 3-3/8"	13' 11-3/4"	8' 2"	27"

† Model Numbers end in "-Z" for units with Series Flow piping configuration. Series Flow units may require additional coil connections and will require crossover piping.

†† Heaviest section is the ARID Fin-Pak™ section and Ellipti-fin® coil sections shipped mounted together.

\* Gallons shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation (12" would normally be sufficient).

△ When a remote sump arrangement is selected, the spray pump, suction strainer and associated piping are omitted; the unit is provided with an oversized outlet to facilitate drainage to the remote sump.

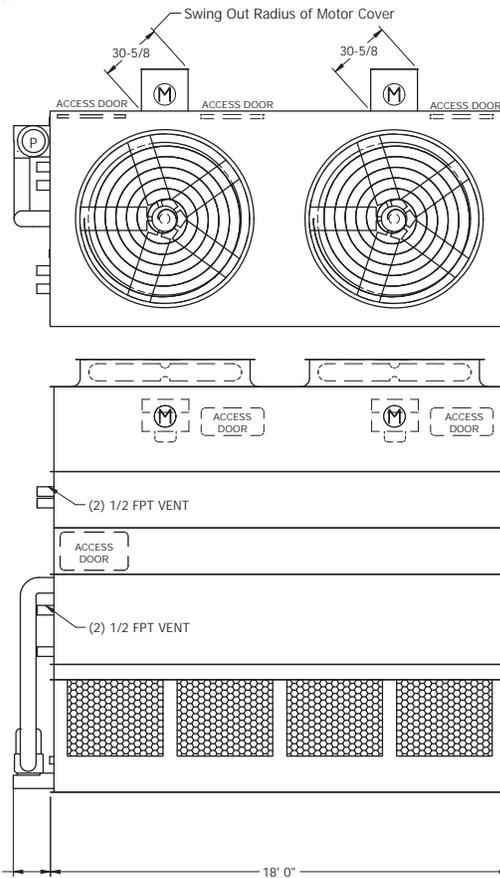
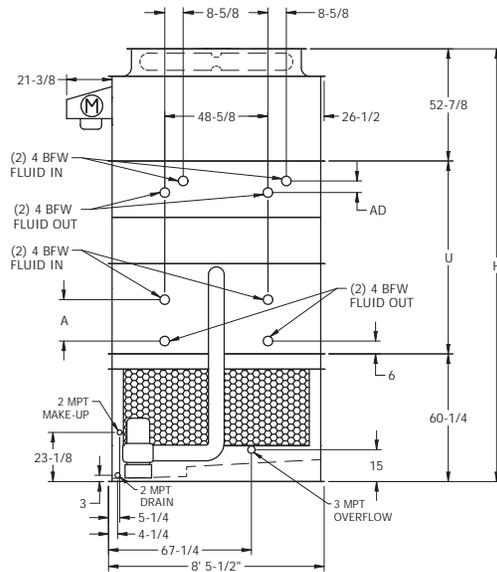
▲ Unit dimensions and coil connections may vary slightly from catalog. See factory certified prints for dimensions, quantity of coil connections, and piping configuration. Coil connections are 4" bevel for weld (BFW), also available as options. Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Dry Coil Section Adds				
ARID Fin-Pak Coil Rows	Coil Volume (gallons)	Shipping Weight (lbs)	Operating Weight (lbs)	Coil AD (in.)
2	18	2410	2560	5-1/2"
4	36	3120	3420	5-1/2"
6	54	3830	4270	6-7/8"
8	72	4530	5130	9-1/2"

# eco-ATWB-H

## Engineering Data & Dimensions

### eco-ATWB-H Models 9-1H18 to 9-4K18



**Note:** The below table lists base unit dimensions and weights. See the table at the bottom Right of the Page for dry coil section dimensions and weight adds.  
**Note:** The number of coil connections doubles when the flow rate exceeds 900 GPM on eco-ATWB-H 9x18 models. This required option is referred to as the High Flow coil configuration.

eco-ATWB-H Model Number†	Weights (lbs)			Fans		Spray Pump		Wet Coil Volume (Gallons)	Remote Sump $\Delta$			Dimensions (ft./in.)			
	Shipping	Heaviest Section††	Operating	HP	CFM	HP	GPM		Gallons Required	Conn. Size	Operating Weight (lbs)	Height H	Length L	Upper U	Coil A
eco-ATWB-H 9-1H18	11,700	4,950	17,770	(2) 7.5	79,980	5	800	116	510	12"	15,220	15' 9-7/8"	18' 0"	6' 4-1/2"	5-1/2"
eco-ATWB-H 9-1I18	11,730	4,950	17,800	(2) 10	88,030	5	800	116	510	12"	15,250	15' 9-7/8"	18' 0"	6' 4-1/2"	5-1/2"
eco-ATWB-H 9-1J18	11,980	4,950	18,050	(2) 15	99,050	5	800	116	510	12"	15,500	15' 9-7/8"	18' 0"	6' 4-1/2"	5-1/2"
eco-ATWB-H 9-1K18	12,100	4,950	18,170	(2) 20	107,360	5	800	116	510	12"	15,620	15' 9-7/8"	18' 0"	6' 4-1/2"	5-1/2"
eco-ATWB-H 9-2H18	15,060	8,310	21,980	(2) 7.5	77,770	5	800	217	510	12"	19,430	16' 4-3/8"	18' 0"	6' 11"	12"
eco-ATWB-H 9-2I18	15,090	8,310	22,010	(2) 10	85,600	5	800	217	510	12"	19,460	16' 4-3/8"	18' 0"	6' 11"	12"
eco-ATWB-H 9-2J18	15,340	8,310	22,260	(2) 15	96,330	5	800	217	510	12"	19,710	16' 4-3/8"	18' 0"	6' 11"	12"
eco-ATWB-H 9-2K18	15,460	8,310	22,380	(2) 20	104,410	5	800	217	510	12"	19,830	16' 4-3/8"	18' 0"	6' 11"	12"
eco-ATWB-H 9-3H18	18,400	11,650	26,160	(2) 7.5	75,570	5	800	319	510	12"	23,610	16' 11-7/8"	18' 0"	7' 6-1/2"	19-1/2"
eco-ATWB-H 9-3I18	18,430	11,650	26,190	(2) 10	83,180	5	800	319	510	12"	23,640	16' 11-7/8"	18' 0"	7' 6-1/2"	19-1/2"
eco-ATWB-H 9-3J18	18,680	11,650	26,440	(2) 15	93,600	5	800	319	510	12"	23,890	16' 11-7/8"	18' 0"	7' 6-1/2"	19-1/2"
eco-ATWB-H 9-3K18	18,800	11,650	26,560	(2) 20	101,450	5	800	319	510	12"	24,010	16' 11-7/8"	18' 0"	7' 6-1/2"	19-1/2"
eco-ATWB-H 9-4H18	21,700	14,950	30,310	(2) 7.5	73,370	5	800	420	510	12"	27,760	17' 7-3/8"	18' 0"	8' 2"	27"
eco-ATWB-H 9-4I18	21,730	14,950	30,340	(2) 10	80,760	5	800	420	510	12"	27,790	17' 7-3/8"	18' 0"	8' 2"	27"
eco-ATWB-H 9-4J18	21,980	14,950	30,590	(2) 15	90,880	5	800	420	510	12"	28,040	17' 7-3/8"	18' 0"	8' 2"	27"
eco-ATWB-H 9-4K18	22,100	14,950	30,710	(2) 20	98,500	5	800	420	510	12"	28,160	17' 7-3/8"	18' 0"	8' 2"	27"

- † Model Numbers end in "-Z" for units with Series Flow piping configuration. Series Flow units may require additional coil connections and will require crossover piping.
- †† Heaviest section is the ARID *Fin-Pak*™ section and Ellipti-*fin*® coil sections shipped mounted together.
- \* Gallons shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation (12" would normally be sufficient).
- $\Delta$  When a remote sump arrangement is selected, the spray pump, suction strainer and associated piping are omitted; the unit is provided with an oversized outlet to facilitate drainage to the remote sump.
- ▲ Unit dimensions and coil connections may vary slightly from catalog. See factory certified prints for dimensions, quantity of coil connections, and piping configuration. Coil connections are 4" bevel for weld (BFW), also available as options. Other connection types such as grooved for mechanical coupling or flanged are also available as options.

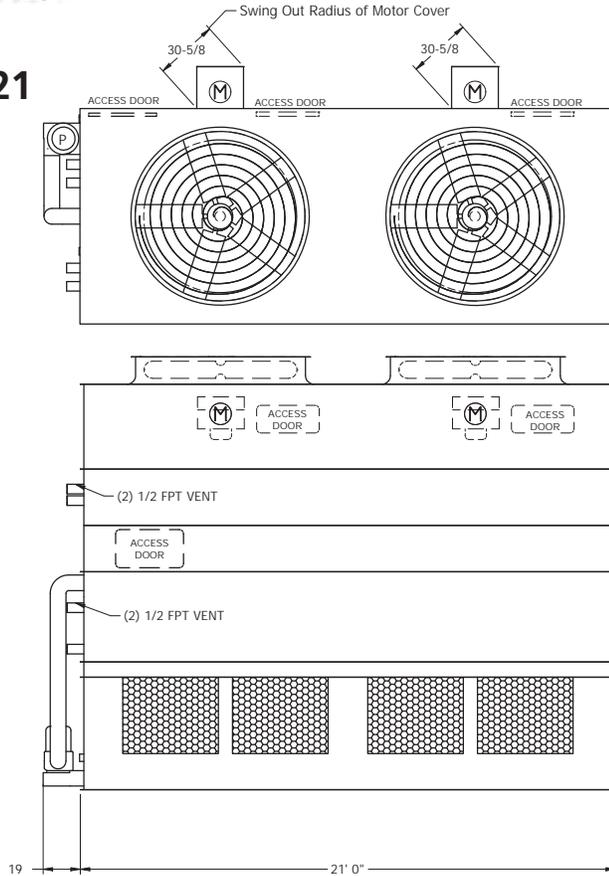
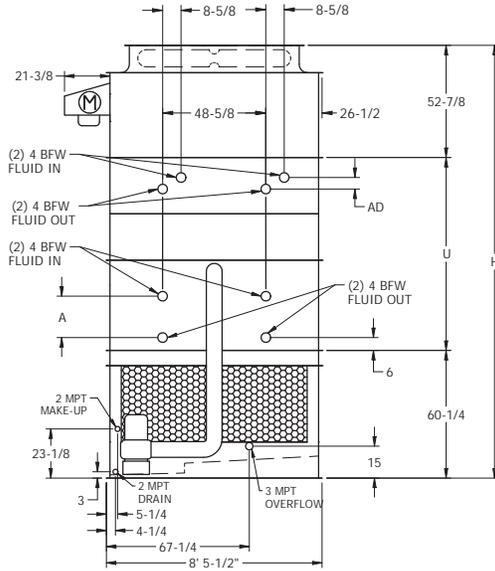
Dry Coil Section Adds				
ARID Fin-Pak Coil Rows	Coil Volume (gallons)	Shipping Weight (lbs)	Operating Weight (lbs)	Coil AD (in.)
2	24	2890	3090	5-1/2"
4	46	3800	4190	5-1/2"
6	70	4720	5300	6-7/8"
8	93	5630	6400	9-1/2"



# eco-ATWB-H

## Engineering Data & Dimensions

### eco-ATWB-H Models 9-1H21 to 9-4K21



**Note:** The below table lists base unit dimensions and weights. See the table at the bottom Right of the Page for dry coil section dimensions and weight adds.  
**Note:** The number of coil connections doubles when the flow rate exceeds 900 GPM on eco-ATWB-H 9x21 models. This required option is referred to as the High Flow coil configuration.

eco-ATWB-H Model Number†	Weights (lbs)			Fans		Spray Pump		Wet Coil Volume (Gallons)	Remote Sump <sup>△</sup>			Dimensions (ft./in.)			
	Shipping	Heaviest Section††	Operating	HP	CFM	HP	GPM		Gallons Required	Conn. Size	Operating Weight (lbs)	Height H	Length L	Upper U	Coil A
eco-ATWB-H 9-1H21	13,150	5,660	20,340	(2) 7.5	88,640	7.5	1050	133	590	12"	17,370	15' 9-7/8"	21' 0"	6' 4-1/2"	5-1/2"
eco-ATWB-H 9-1I21	13,180	5,660	20,370	(2) 10	97,560	7.5	1050	133	590	12"	17,400	15' 9-7/8"	21' 0"	6' 4-1/2"	5-1/2"
eco-ATWB-H 9-1J21	13,430	5,660	20,620	(2) 15	110,690	7.5	1050	133	590	12"	17,650	15' 9-7/8"	21' 0"	6' 4-1/2"	5-1/2"
eco-ATWB-H 9-1K21	13,550	5,660	20,740	(2) 20	119,970	7.5	1050	133	590	12"	17,770	15' 9-7/8"	21' 0"	6' 4-1/2"	5-1/2"
eco-ATWB-H 9-2H21	17,300	9,810	25,480	(2) 7.5	86,200	7.5	1050	252	590	12"	22,510	16' 4-3/8"	21' 0"	6' 11"	12"
eco-ATWB-H 9-2I21	17,330	9,810	25,510	(2) 10	94,870	7.5	1050	252	590	12"	22,540	16' 43/8"	21' 0"	6' 11"	12"
eco-ATWB-H 9-2J21	17,580	9,810	25,760	(2) 15	107,640	7.5	1050	252	590	12"	22,790	16' 4-3/8"	21' 0"	6' 11"	12"
eco-ATWB-H 9-2K21	17,700	9,810	25,880	(2) 20	116,670	7.5	1050	252	590	12"	22,910	16' 4-3/8"	21' 0"	6' 11"	12"
eco-ATWB-H 9-3H21	20,970	13,480	30,140	(2) 7.5	83,760	7.5	1050	370	590	12"	27,170	16' 11-7/8"	21' 0"	7' 6-1/2"	19-1/2"
eco-ATWB-H 9-3I21	21,000	13,480	30,170	(2) 10	92,190	7.5	1050	370	590	12"	27,200	16' 11-7/8"	21' 0"	7' 6-1/2"	19-1/2"
eco-ATWB-H 9-3J21	21,250	13,480	30,420	(2) 15	104,590	7.5	1050	370	590	12"	27,450	16' 11-7/8"	21' 0"	7' 6-1/2"	19-1/2"
eco-ATWB-H 9-3K21	21,370	13,480	30,540	(2) 20	113,370	7.5	1050	370	590	12"	27,570	16' 11-7/8"	21' 0"	7' 6-1/2"	19-1/2"
eco-ATWB-H 9-4H21	24,820	17,330	34,980	(2) 7.5	81,320	7.5	1050	489	590	12"	32,010	17' 7-3/8"	21' 0"	8' 2"	27"
eco-ATWB-H 9-4I21	24,850	17,330	35,010	(2) 10	89,500	7.5	1050	489	590	12"	32,040	17' 7-3/8"	21' 0"	8' 2"	27"
eco-ATWB-H 9-4J21	25,100	17,330	35,260	(2) 15	101,550	7.5	1050	489	590	12"	32,290	17' 7-3/8"	21' 0"	8' 2"	27"
eco-ATWB-H 9-4K21	25,220	17,330	35,380	(2) 20	110,070	7.5	1050	489	590	12"	32,410	17' 7-3/8"	21' 0"	8' 2"	27"

- † Model Numbers end in "-Z" for units with Series Flow piping configuration. Series Flow units may require additional coil connections and will require crossover piping.
- †† Heaviest section is the ARID Fin-Pak™ section and Ellipti-fin® coil sections shipped mounted together.
- \* Gallons shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation (12" would normally be sufficient).
- △ When a remote sump arrangement is selected, the spray pump, suction strainer and associated piping are omitted; the unit is provided with an oversized outlet to facilitate drainage to the remote sump.
- ▲ Unit dimensions and coil connections may vary slightly from catalog. See factory certified prints for dimensions, quantity of coil connections, and piping configuration. Coil connections are 4" bevel for weld (BFW), also available as options. Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Dry Coil Section Adds				
ARID Fin-Pak Coil Rows	Coil Volume (gallons)	Shipping Weight (lbs)	Operating Weight (lbs)	Coil AD (in.)
2	27	3260	3480	5-1/2"
4	55	4320	4780	5-1/2"
6	82	5390	6080	6-7/8"
8	109	6470	7380	9-1/2"

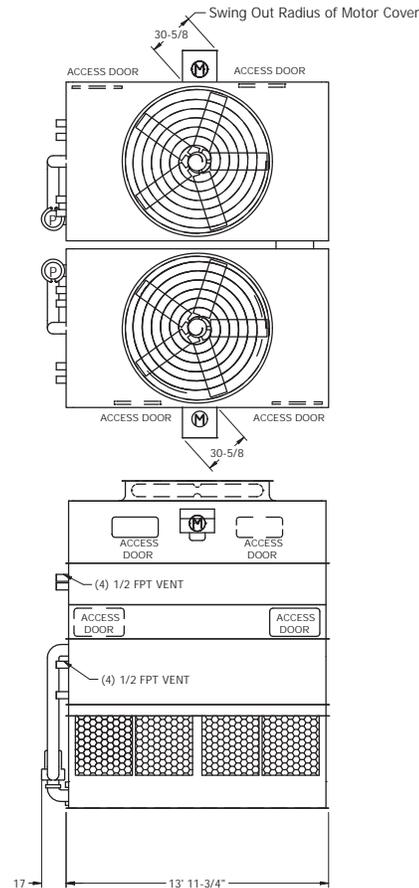
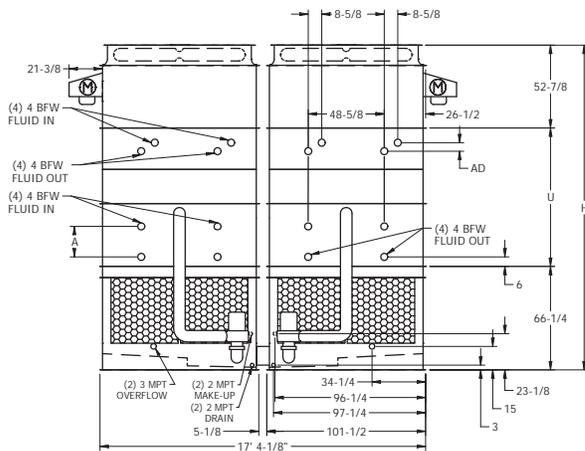




# eco-ATWB-H

## Engineering Data & Dimensions

### eco-ATWB-H Models 17-1114 to 17-4M14



**Note:** The below table lists base unit dimensions and weights. See the table at the bottom Right of the Page for dry coil section dimensions and weight adds.

**Note:** The number of coil connections doubles when the flow rate exceeds 1,800 GPM on eco-ATWB-H 17x14 models. This required option is referred to as the High Flow coil configuration.

eco-ATWB-H Model Number†	Weights (lbs)			Fans		Spray Pump		Wet Coil Volume (Gallons)	Remote Sump <sup>△</sup>			Dimensions (ft./in.)			
	Shipping	Heaviest Section††	Operating	HP	CFM	HP	GPM		Gallons Required	Conn. Size	Operating Weight (lbs)	Height H	Length L	Upper U	Coil A
eco-ATWB-H 17-1114	18,880	4,930	28,220	(2) 10	118,050	(2) 5	1300	186	760	(2) 10"	24,160	16' 3 7/8"	13' 11 3/4"	6' 4 1/2"	5 1/2"
eco-ATWB-H 17-1114	19,140	4,930	28,480	(2) 15	135,130	(2) 5	1300	186	760	(2) 10"	24,420	16' 3 7/8"	13' 11 3/4"	6' 4 1/2"	5 1/2"
eco-ATWB-H 17-1K14	19,260	4,930	28,600	(2) 20	147,400	(2) 5	1300	186	760	(2) 10"	24,540	16' 3 7/8"	13' 11 3/4"	6' 4 1/2"	5 1/2"
eco-ATWB-H 17-1L14	19,320	4,930	28,660	(2) 25	156,900	(2) 5	1300	186	760	(2) 10"	24,600	16' 3 7/8"	13' 11 3/4"	6' 4 1/2"	5 1/2"
eco-ATWB-H 17-2114	22,240	6,610	32,880	(2) 10	114,800	(2) 5	1300	343	760	(2) 10"	28,820	16' 10 3/8"	13' 11 3/4"	6' 11"	12"
eco-ATWB-H 17-2114	22,500	6,610	33,140	(2) 15	131,410	(2) 5	1300	343	760	(2) 10"	29,080	16' 10 3/8"	13' 11 3/4"	6' 11"	12"
eco-ATWB-H 17-2K14	22,620	6,610	33,260	(2) 20	143,340	(2) 5	1300	343	760	(2) 10"	29,200	16' 10 3/8"	13' 11 3/4"	6' 11"	12"
eco-ATWB-H 17-2L14	22,680	6,610	33,320	(2) 25	152,590	(2) 5	1300	343	760	(2) 10"	29,260	16' 10 3/8"	13' 11 3/4"	6' 11"	12"
eco-ATWB-H 17-3114	27,540	9,260	39,500	(2) 10	111,550	(2) 5	1300	500	760	(2) 10"	35,440	17' 5 7/8"	13' 11 3/4"	7' 6 1/2"	19 1/2"
eco-ATWB-H 17-3114	27,800	9,260	39,760	(2) 15	127,690	(2) 5	1300	500	760	(2) 10"	35,700	17' 5 7/8"	13' 11 3/4"	7' 6 1/2"	19 1/2"
eco-ATWB-H 17-3K14	27,920	9,260	39,880	(2) 20	139,290	(2) 5	1300	500	760	(2) 10"	35,820	17' 5 7/8"	13' 11 3/4"	7' 6 1/2"	19 1/2"
eco-ATWB-H 17-3L14	27,980	9,260	39,940	(2) 25	148,270	(2) 5	1300	500	760	(2) 10"	35,880	17' 5 7/8"	13' 11 3/4"	7' 6 1/2"	19 1/2"
eco-ATWB-H 17-4114	32,840	11,780	46,120	(2) 15	123,970	(2) 5	1300	657	760	(2) 10"	42,060	18' 1 3/8"	13' 11 3/4"	8' 2"	27"
eco-ATWB-H 17-4K14	32,960	11,780	46,240	(2) 20	135,230	(2) 5	1300	657	760	(2) 10"	42,180	18' 1 3/8"	13' 11 3/4"	8' 2"	27"
eco-ATWB-H 17-4L14	33,020	11,780	46,300	(2) 25	143,950	(2) 5	1300	657	760	(2) 10"	42,240	18' 1 3/8"	13' 11 3/4"	8' 2"	27"
eco-ATWB-H 17-4M14	33,120	11,780	46,400	(2) 30	151,490	(2) 5	1300	657	760	(2) 10"	42,340	18' 1 3/8"	13' 11 3/4"	8' 2"	27"

† Model Numbers end in "-Z" for units with Series Flow piping configuration. Series Flow units may require additional coil connections and will require crossover piping.

†† Heaviest section is the ARID Fin-Pak™ section and Ellipti-fin® coil sections shipped mounted together.

\* Gallons shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation (12" would normally be sufficient).

△ When a remote sump arrangement is selected, the spray pump, suction strainer and associated piping are omitted; the unit is provided with an oversized outlet to facilitate drainage to the remote sump.

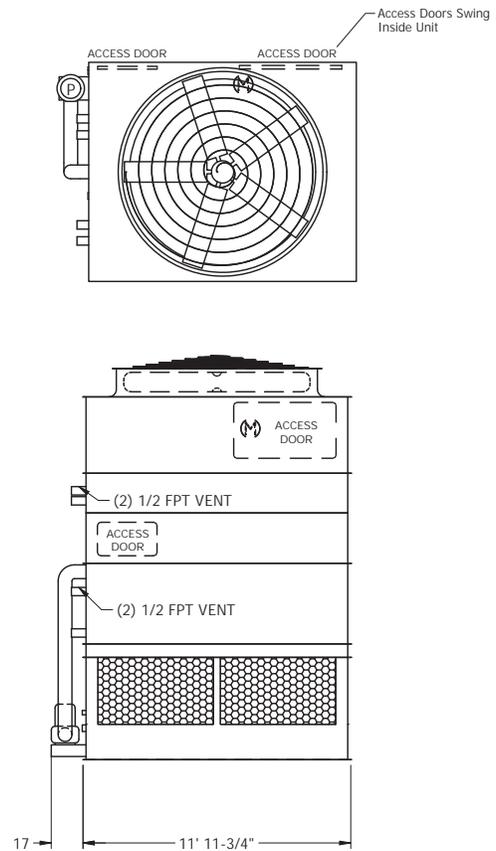
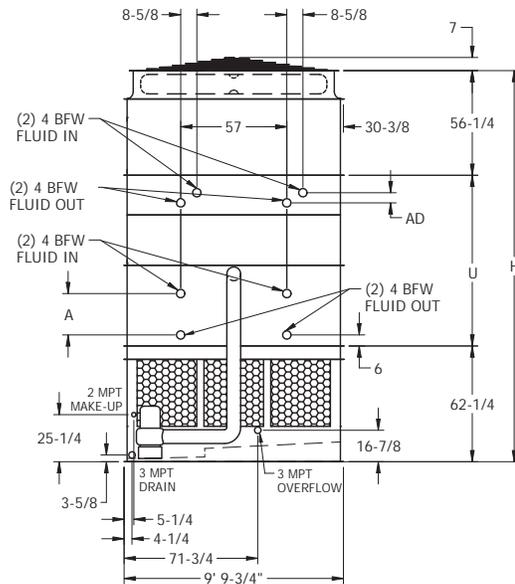
▲ Unit dimensions and coil connections may vary slightly from catalog. See factory certified prints for dimensions, quantity of coil connections, and piping configuration. Coil connections are 4" bevel for weld (BFW), also available as options. Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Dry Coil Section Adds				
ARID Fin-Pak Coil Rows	Coil Volume (gallons)	Shipping Weight (lbs)	Operating Weight (lbs)	Coil AD (in.)
2	36	(2) 2410	5130	5-1/2"
4	72	(2) 3120	6840	5-1/2"
6	108	(2) 3830	8550	6-7/8"
8	144	(2) 4530	10260	9-1/2"

# eco-ATWB-H

## Engineering Data & Dimensions

### eco-ATWB-H Models 10-1112 to 10-4M12



**Note:** The below table lists base unit dimensions and weights. See the table at the bottom Right of the Page for dry coil section dimensions and weight adds.  
**Note:** The number of coil connections doubles when the flow rate exceeds 900 GPM on eco-ATWB-H 10x12 models. This required option is referred to as the High Flow coil configuration.

eco-ATWB-H Model Number†	Weights (lbs)			Fans		Spray Pump		Wet Coil Volume (Gallons)	Remote Sump △			Dimensions (ft./in.)			
	Shipping	Heaviest Section††	Operating	HP	CFM	HP	GPM		Gallons Required	Conn. Size	Operating Weight (lbs)	Height H	Length L	Upper U	Coil A
eco-ATWB-H 10-1112	9,890	4,910	15,500	10	58,920	5	685	95	420	12"	11,930	16' 1-5/8"	11' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 10-1112	10,020	4,910	15,630	15	67,450	5	685	95	420	12"	12,060	16' 1-5/8"	11' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 10-1K12	10,080	4,910	15,690	20	73,570	5	685	95	420	12"	12,120	16' 1-5/8"	11' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 10-1L12	10,110	4,910	15,720	25	78,310	5	685	95	420	12"	12,150	16' 1-5/8"	11' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 10-1M12	10,160	4,910	15,770	30	82,410	5	685	95	420	12"	12,200	16' 1-5/8"	11' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 10-2112	12,710	7,730	18,980	10	57,300	5	685	174	420	12"	15,410	16' 9-7/8"	11' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 10-2J12	12,840	7,730	19,110	15	65,590	5	685	174	420	12"	15,540	16' 9-7/8"	11' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 10-2K12	12,900	7,730	19,170	20	71,540	5	685	174	420	12"	15,600	16' 9-7/8"	11' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 10-2L12	12,930	7,730	19,200	25	76,150	5	685	174	420	12"	15,630	16' 9-7/8"	11' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 10-2M12	12,980	7,730	19,250	30	80,140	5	685	174	420	12"	15,680	16' 9-7/8"	11' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 10-3112	15,170	10,190	22,090	10	55,680	5	685	253	420	12"	18,520	17' 6-3/8"	11' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 10-3J12	15,300	10,190	22,220	15	63,740	5	685	253	420	12"	18,650	17' 6-3/8"	11' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 10-3K12	15,360	10,190	22,280	20	69,520	5	685	253	420	12"	18,710	17' 6-3/8"	11' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 10-3L12	15,390	10,190	22,310	25	74,000	5	685	253	420	12"	18,740	17' 6-3/8"	11' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 10-3M12	15,440	10,190	22,360	30	77,870	5	685	253	420	12"	18,790	17' 6-3/8"	11' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 10-4112	17,770	12,790	25,350	10	54,060	5	685	332	420	12"	21,780	18' 2-7/8"	11' 11-3/4"	8' 4-1/4"	30-3/4"
eco-ATWB-H 10-4J12	17,900	12,790	25,480	15	61,880	5	685	332	420	12"	21,910	18' 2-7/8"	11' 11-3/4"	8' 4-1/4"	30-3/4"
eco-ATWB-H 10-4K12	17,960	12,790	25,540	20	67,490	5	685	332	420	12"	21,970	18' 2-7/8"	11' 11-3/4"	8' 4-1/4"	30-3/4"
eco-ATWB-H 10-4L12	17,990	12,790	25,570	25	71,840	5	685	332	420	12"	22,000	18' 2-7/8"	11' 11-3/4"	8' 4-1/4"	30-3/4"
eco-ATWB-H 10-4M12	18,040	12,790	25,620	30	75,610	5	685	332	420	12"	22,050	18' 2-7/8"	11' 11-3/4"	8' 4-1/4"	30-3/4"

† Model Numbers end in "-Z" for units with Series Flow piping configuration. Series Flow units may require additional coil connections and will require crossover piping.  
 †† Heaviest section is the ARID *Fin-Pak*™ section and Ellipti-*fin*® coil sections shipped mounted together.  
 \* Gallons shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation (12" would normally be sufficient).  
 △ When a remote sump arrangement is selected, the spray pump, suction strainer and associated piping are omitted; the unit is provided with an oversized outlet to facilitate drainage to the remote sump.  
 ▲ Unit dimensions and coil connections may vary slightly from catalog. See factory certified prints for dimensions, quantity of coil connections, and piping configuration. Coil connections are 4" bevel for weld (BFW), also available as options. Other connection types such as grooved for mechanical coupling or flanged are also available as options.

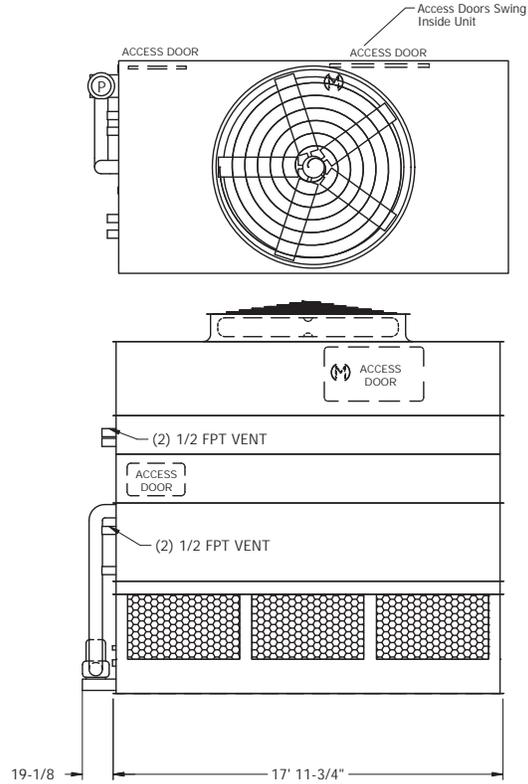
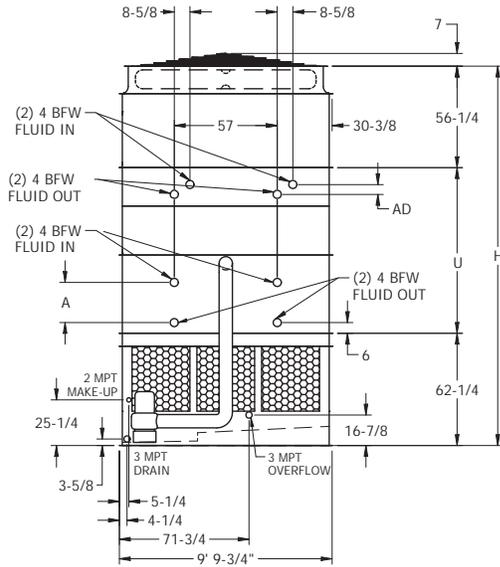
Dry Coil Section Adds				
ARID Fin-Pak Coil Rows	Coil Volume (gallons)	Shipping Weight (lbs)	Operating Weight (lbs)	Coil AD (in.)
2	18	2430	2580	5-1/2"
4	36	3140	3440	5-1/2"
6	55	3860	4320	6-7/8"
8	73	4570	5180	9-1/2"



# eco-ATWB-H

## Engineering Data & Dimensions

### eco-ATWB-H Models 10-1I18 to 10-4N18



**Note:** The below table lists base unit dimensions and weights. See the table at the bottom Right of the Page for dry coil section dimensions and weight adds.  
**Note:** The number of coil connections doubles when the flow rate exceeds 900 GPM on eco-ATWB-H 10x18 models. This required option is referred to as the High Flow coil configuration.

eco-ATWB-H Model Number†	Weights (lbs)			Fans		Spray Pump		Wet Coil Volume (Gallons)	Remote Sump <sup>△</sup>			Dimensions (ft./in.)			
	Shipping	Heaviest Section††	Operating	HP	CFM	HP	GPM		Gallons Required	Conn. Size	Operating Weight (lbs)	Height H	Length L	Upper U	Coil A
eco-ATWB-H 10-1I18	13,820	7,060	22,250	10	77,390	7.5	1030	136	630	12"	17,000	16' 1-5/8"	18' 0"	6' 3"	5-1/2"
eco-ATWB-H 10-1J18	13,950	7,060	22,380	15	88,580	7.5	1030	136	630	12"	17,130	16' 1-5/8"	18' 0"	6' 3"	5-1/2"
eco-ATWB-H 10-1K18	14,010	7,060	22,440	20	97,500	7.5	1030	136	630	12"	17,190	16' 1-5/8"	18' 0"	6' 3"	5-1/2"
eco-ATWB-H 10-1L18	14,040	7,060	22,470	25	105,030	7.5	1030	136	630	12"	17,220	16' 1-5/8"	18' 0"	6' 3"	5-1/2"
eco-ATWB-H 10-1M18	14,090	7,060	22,520	30	110,620	7.5	1030	136	630	12"	17,270	16' 1-5/8"	18' 0"	6' 3"	5-1/2"
eco-ATWB-H 10-1N18	14,250	7,060	22,680	40	119,900	7.5	1030	136	630	12"	17,430	16' 1-5/8"	18' 0"	6' 3"	5-1/2"
eco-ATWB-H 10-2I18	18,050	11,290	27,480	10	75,260	7.5	1030	255	630	12"	22,230	16' 9-7/8"	18' 0"	6' 11-1/4"	13-3/4"
eco-ATWB-H 10-2J18	18,180	11,290	27,610	15	86,150	7.5	1030	255	630	12"	22,360	16' 9-7/8"	18' 0"	6' 11-1/4"	13-3/4"
eco-ATWB-H 10-2K18	18,240	11,290	27,670	20	94,820	7.5	1030	255	630	12"	22,420	16' 9-7/8"	18' 0"	6' 11-1/4"	13-3/4"
eco-ATWB-H 10-2L18	18,270	11,290	27,700	25	102,140	7.5	1030	255	630	12"	22,450	16' 9-7/8"	18' 0"	6' 11-1/4"	13-3/4"
eco-ATWB-H 10-2M18	18,320	11,290	27,750	30	107,570	7.5	1030	255	630	12"	22,500	16' 9-7/8"	18' 0"	6' 11-1/4"	13-3/4"
eco-ATWB-H 10-2N18	18,480	11,290	27,910	40	116,600	7.5	1030	255	630	12"	22,660	16' 9-7/8"	18' 0"	6' 11-1/4"	13-3/4"
eco-ATWB-H 10-3I18	21,770	15,010	32,190	10	73,130	7.5	1030	374	630	12"	26,940	17' 6-3/8"	18' 0"	7' 7-3/4"	22-1/4"
eco-ATWB-H 10-3J18	21,900	15,010	32,320	15	83,710	7.5	1030	374	630	12"	27,070	17' 6-3/8"	18' 0"	7' 7-3/4"	22-1/4"
eco-ATWB-H 10-3K18	21,960	15,010	32,380	20	92,130	7.5	1030	374	630	12"	27,130	17' 6-3/8"	18' 0"	7' 7-3/4"	22-1/4"
eco-ATWB-H 10-3L18	21,990	15,010	32,410	25	99,250	7.5	1030	374	630	12"	27,160	17' 6-3/8"	18' 0"	7' 7-3/4"	22-1/4"
eco-ATWB-H 10-3M18	22,040	15,010	32,460	30	104,530	7.5	1030	374	630	12"	27,210	17' 6-3/8"	18' 0"	7' 7-3/4"	22-1/4"
eco-ATWB-H 10-3N18	22,200	15,010	32,620	40	113,300	7.5	1030	374	630	12"	27,370	17' 6-3/8"	18' 0"	7' 7-3/4"	22-1/4"
eco-ATWB-H 10-4I18	25,640	18,880	37,060	10	71,000	7.5	1030	494	630	12"	31,810	18' 2-7/8"	18' 0"	8' 4-1/4"	30-3/4"
eco-ATWB-H 10-4J18	25,770	18,880	37,190	15	81,270	7.5	1030	494	630	12"	31,940	18' 2-7/8"	18' 0"	8' 4-1/4"	30-3/4"
eco-ATWB-H 10-4K18	25,830	18,880	37,250	20	89,450	7.5	1030	494	630	12"	32,000	18' 2-7/8"	18' 0"	8' 4-1/4"	30-3/4"
eco-ATWB-H 10-4L18	25,860	18,880	37,280	25	96,360	7.5	1030	494	630	12"	32,030	18' 2-7/8"	18' 0"	8' 4-1/4"	30-3/4"
eco-ATWB-H 10-4M18	25,910	18,880	37,330	30	101,480	7.5	1030	494	630	12"	32,080	18' 2-7/8"	18' 0"	8' 4-1/4"	30-3/4"
eco-ATWB-H 10-4N18	26,070	18,880	37,490	40	110,000	7.5	1030	494	630	12"	32,240	18' 2-7/8"	18' 0"	8' 4-1/4"	30-3/4"

† Model Numbers end in "-Z" for units with Series Flow piping configuration. Series Flow units may require additional coil connections and will require crossover piping.

†† Heaviest section is the ARID Fin-Pak™ section and Ellipti-fin® coil sections shipped mounted together.

\* Gallons shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation (12" would normally be sufficient).

△ When a remote sump arrangement is selected, the spray pump, suction strainer and associated piping are omitted; the unit is provided with an oversized outlet to facilitate drainage to the remote sump.

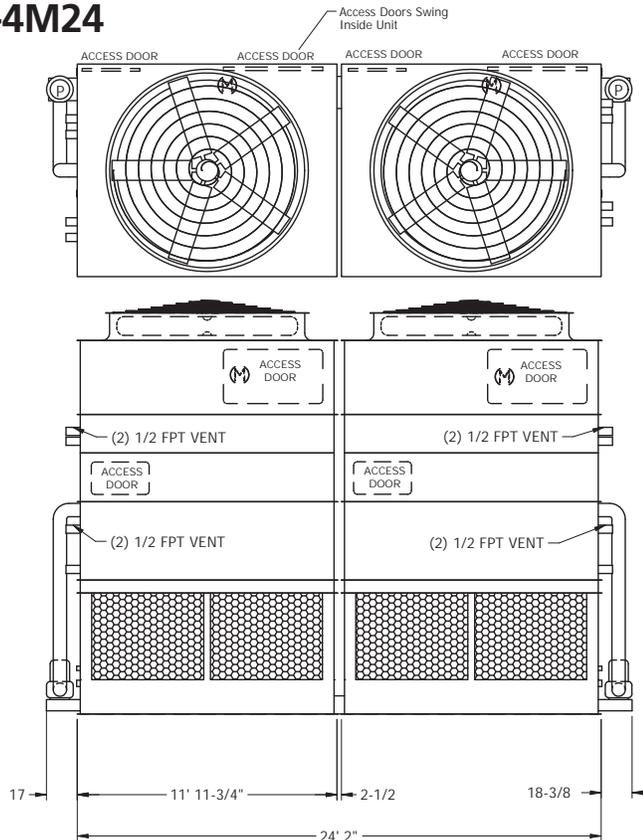
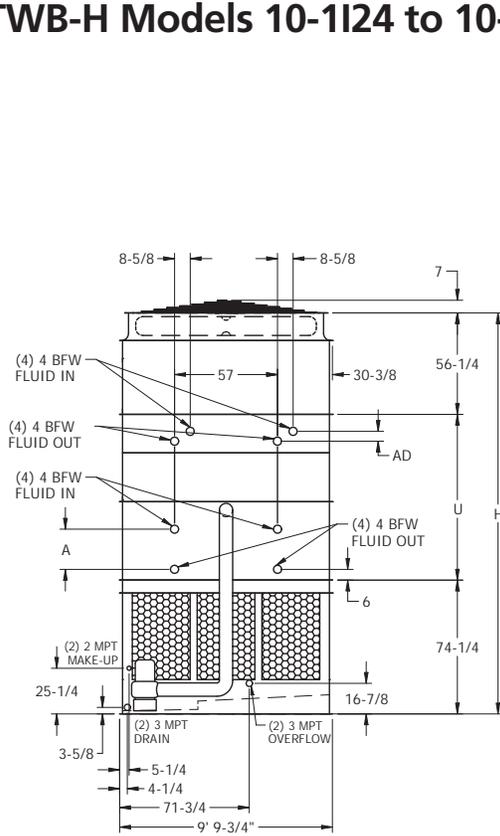
▲ Unit dimensions and coil connections may vary slightly from catalog. See factory certified prints for dimensions, quantity of coil connections, and piping configuration. Coil connections are 4" bevel for weld (BFW), also available as options. Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Dry Coil Section Adds				
ARID Fin-Pak Coil Rows	Coil Volume (gallons)	Shipping Weight (lbs)	Operating Weight (lbs)	Coil AD (in.)
2	27	3220	3450	5-1/2"
4	55	4300	4770	5-1/2"
6	82	5380	6070	6-7/8"
8	111	6460	7380	9-1/2"

# eco-ATWB-H

## Engineering Data & Dimensions

### eco-ATWB-H Models 10-1I24 to 10-4M24



**Note:** The below table lists base unit dimensions and weights. See the table at the bottom Right of the Page for dry coil section dimensions and weight adds.  
**Note:** The number of coil connections doubles when the flow rate exceeds 1,800 GPM on eco-ATWB-H 10x24 models. This required option is referred to as the High Flow coil configuration.

eco-ATWB-H Model Number†	Weights (lbs)			Fans		Spray Pump		Wet Coil Volume (Gallons)	Remote Sump $\Delta$			Dimensions (ft./in.)			
	Shipping	Heaviest Section††	Operating	HP	CFM	HP	GPM		Gallons Required	Conn. Size	Operating Weight (lbs)	Height H	Length L	Upper U	Coil A
eco-ATWB-H 10-1I24	19,600	4,820	30,820	(2) 10	117,850	(2) 5	1370	190	840	(2) 12"	23,680	17' 1-5/8"	24' 2"	6' 3"	5-1/2"
eco-ATWB-H 10-1J24	19,860	4,820	31,080	(2) 15	134,900	(2) 5	1370	190	840	(2) 12"	23,940	17' 1-5/8"	24' 2"	6' 3"	5-1/2"
eco-ATWB-H 10-1K24	19,980	4,820	31,200	(2) 20	147,130	(2) 5	1370	190	840	(2) 12"	24,060	17' 1-5/8"	24' 2"	6' 3"	5-1/2"
eco-ATWB-H 10-1L24	20,040	4,820	31,260	(2) 25	156,620	(2) 5	1370	190	840	(2) 12"	24,120	17' 1-5/8"	24' 2"	6' 3"	5-1/2"
eco-ATWB-H 10-1M24	20,140	4,820	31,360	(2) 30	164,820	(2) 5	1370	190	840	(2) 12"	24,220	17' 1-5/8"	24' 2"	6' 3"	5-1/2"
eco-ATWB-H 10-2I24	25,340	7,690	37,880	(2) 10	114,600	(2) 5	1370	348	840	(2) 12"	30,740	17' 9/8"	24' 2"	6' 11 1/4"	13-3/4"
eco-ATWB-H 10-2J24	25,600	7,690	38,140	(2) 15	131,190	(2) 5	1370	348	840	(2) 12"	31,000	17' 9-7/8"	24' 2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 10-2K24	25,720	7,690	38,260	(2) 20	143,080	(2) 5	1370	348	840	(2) 12"	31,120	17' 9-7/8"	24' 2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 10-2L24	25,780	7,690	38,320	(2) 25	152,310	(2) 5	1370	348	840	(2) 12"	31,180	17' 9-7/8"	24' 2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 10-2M24	25,880	7,690	38,420	(2) 30	160,280	(2) 5	1370	348	840	(2) 12"	31,280	17' 9-7/8"	24' 2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 10-3I24	30,340	10,190	44,180	(2) 10	111,360	(2) 5	1370	506	840	(2) 12"	37,040	18' 6-3/8"	24' 2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 10-3J24	30,600	10,190	44,440	(2) 15	127,470	(2) 5	1370	506	840	(2) 12"	37,300	18' 6-3/8"	24' 2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 10-3K24	30,720	10,190	44,560	(2) 20	139,030	(2) 5	1370	506	840	(2) 12"	37,420	18' 6-3/8"	24' 2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 10-3L24	30,780	10,190	44,620	(2) 25	148,000	(2) 5	1370	506	840	(2) 12"	37,480	18' 6-3/8"	24' 2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 10-3M24	30,880	10,190	44,720	(2) 30	155,750	(2) 5	1370	506	840	(2) 12"	37,580	18' 6-3/8"	24' 2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 10-4I24	35,540	12,790	50,700	(2) 10	108,120	(2) 5	1370	664	840	(2) 12"	43,560	19' 2-7/8"	24' 2"	8' 4-1/4"	30-3/4"
eco-ATWB-H 10-4J24	35,800	12,790	50,960	(2) 15	123,760	(2) 5	1370	664	840	(2) 12"	43,820	19' 2-7/8"	24' 2"	8' 4-1/4"	30-3/4"
eco-ATWB-H 10-4K24	35,920	12,790	51,080	(2) 20	134,980	(2) 5	1370	664	840	(2) 12"	43,940	19' 2-7/8"	24' 2"	8' 4-1/4"	30-3/4"
eco-ATWB-H 10-4L24	35,980	12,790	51,140	(2) 25	143,690	(2) 5	1370	664	840	(2) 12"	44,000	19' 2-7/8"	24' 2"	8' 4-1/4"	30-3/4"
eco-ATWB-H 10-4M24	36,080	12,790	51,240	(2) 30	151,210	(2) 5	1370	664	840	(2) 12"	44,100	19' 2-7/8"	24' 2"	8' 4-1/4"	30-3/4"

† Model Numbers end in "-Z" for units with Series Flow piping configuration. Series Flow units may require additional coil connections and will require crossover piping.  
 †† Heaviest section is the ARID *Fin-Pak*™ section and Ellipti-*fin*® coil sections shipped mounted together.  
 \* Gallons shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation (12" would normally be sufficient).  
 $\Delta$  When a remote sump arrangement is selected, the spray pump, suction strainer and associated piping are omitted; the unit is provided with an oversized outlet to facilitate drainage to the remote sump.  
 ▲ Unit dimensions and coil connections may vary slightly from catalog. See factory certified prints for dimensions, quantity of coil connections, and piping configuration. Coil connections are 4" bevel for weld (BFW), also available as options. Other connection types such as grooved for mechanical coupling or flanged are also available as options.

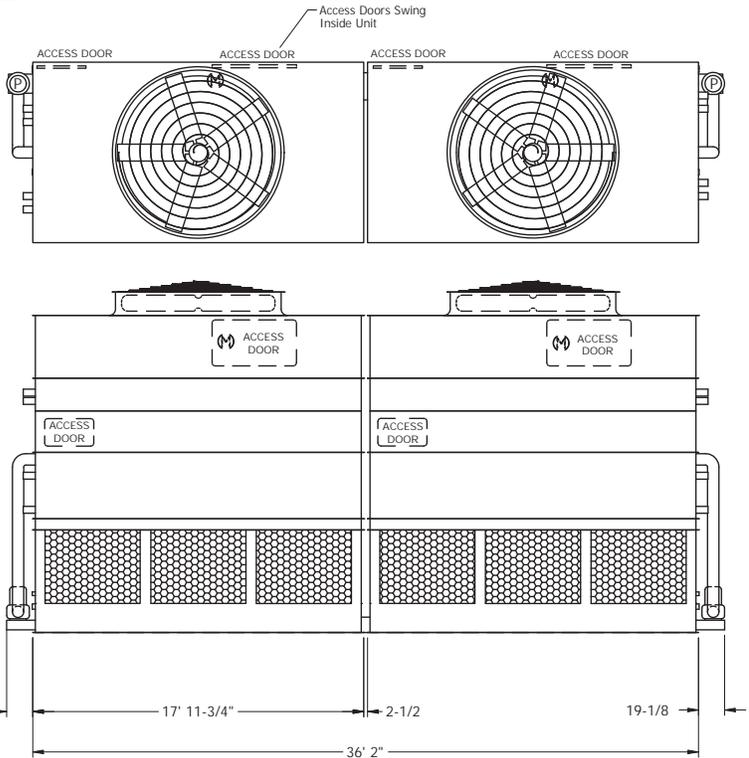
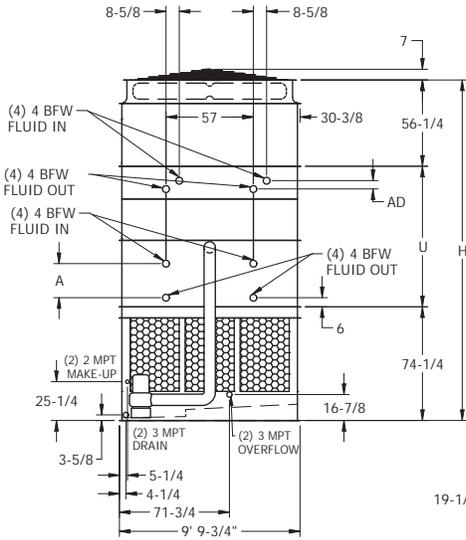
Dry Coil Section Adds				
ARID Fin-Pak Coil Rows	Coil Volume (gallons)	Shipping Weight (lbs)	Operating Weight (lbs)	Coil AD (in.)
2	36	(2) 2430	5160	5-1/2"
4	72	(2) 3140	6890	5-1/2"
6	111	(2) 3860	8630	6-7/8"
8	147	(2) 4570	10370	9-1/2"



# eco-ATWB-H

## Engineering Data & Dimensions

### eco-ATWB-H Models 10-1I36 to 10-4N36



**Note:** The below table lists base unit dimensions and weights. See the table at the bottom Right of the Page for dry coil section dimensions and weight adds.  
**Note:** The number of coil connections doubles when the flow rate exceeds 1,800 GPM on eco-ATWB-H 10x36 models. This required option is referred to as the High Flow coil configuration.

eco-ATWB-H Model Number†	Weights (lbs)			Fans		Spray Pump		Wet Coil Volume (Gallons)	Remote Sump <sup>△</sup>			Dimensions (ft./in.)			
	Shipping	Heaviest Section††	Operating	HP	CFM	HP	GPM		Gallons Required	Conn. Size	Operating Weight (lbs)	Height H	Length L	Upper U	Coil A
eco-ATWB-H 10-1I36	27,400	6,940	44,260	(2) 10	154,770	(2) 7.5	2060	271	1260	(2) 12"	33,760	17' 1-5/8"	36' 2-1/2"	6' 3"	5-1/2"
eco-ATWB-H 10-1J36	27,660	6,940	44,520	(2) 15	177,170	(2) 7.5	2060	271	1260	(2) 12"	34,020	17' 1-5/8"	36' 2-1/2"	6' 3"	5-1/2"
eco-ATWB-H 10-1K36	27,780	6,940	44,640	(2) 20	195,000	(2) 7.5	2060	271	1260	(2) 12"	34,140	17' 1-5/8"	36' 2-1/2"	6' 3"	5-1/2"
eco-ATWB-H 10-1L36	27,840	6,940	44,700	(2) 25	210,060	(2) 7.5	2060	271	1260	(2) 12"	34,200	17' 1-5/8"	36' 2-1/2"	6' 3"	5-1/2"
eco-ATWB-H 10-1M36	27,940	6,940	44,800	(2) 30	221,240	(2) 7.5	2060	271	1260	(2) 12"	34,300	17' 1-5/8"	36' 2-1/2"	6' 3"	5-1/2"
eco-ATWB-H 10-1N36	28,260	6,940	45,120	(2) 40	239,790	(2) 7.5	2060	271	1260	(2) 12"	34,620	17' 1-5/8"	36' 2-1/2"	6' 3"	5-1/2"
eco-ATWB-H 10-2I36	35,960	11,220	54,820	(2) 10	150,510	(2) 7.5	2060	510	1260	(2) 12"	44,320	17' 9-7/8"	36' 2-1/2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 10-2J36	36,220	11,220	55,080	(2) 15	172,290	(2) 7.5	2060	510	1260	(2) 12"	44,580	17' 9-7/8"	36' 2-1/2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 10-2K36	36,340	11,220	55,200	(2) 20	189,630	(2) 7.5	2060	510	1260	(2) 12"	44,700	17' 9-7/8"	36' 2-1/2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 10-2L36	36,400	11,220	55,260	(2) 25	204,280	(2) 7.5	2060	510	1260	(2) 12"	44,760	17' 9-7/8"	36' 2-1/2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 10-2M36	36,500	11,220	55,360	(2) 30	215,150	(2) 7.5	2060	510	1260	(2) 12"	44,860	17' 9-7/8"	36' 2-1/2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 10-2N36	36,820	11,220	55,680	(2) 40	233,190	(2) 7.5	2060	510	1260	(2) 12"	45,180	17' 9-7/8"	36' 2-1/2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 10-3I36	43,540	15,010	64,380	(2) 10	146,250	(2) 7.5	2060	748	1260	(2) 12"	53,880	18' 6-3/8"	36' 2-1/2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 10-3J36	43,800	15,010	64,640	(2) 15	167,420	(2) 7.5	2060	748	1260	(2) 12"	54,140	18' 6-3/8"	36' 2-1/2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 10-3K36	43,920	15,010	64,760	(2) 20	184,270	(2) 7.5	2060	748	1260	(2) 12"	54,260	18' 6-3/8"	36' 2-1/2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 10-3L36	43,980	15,010	64,820	(2) 25	198,490	(2) 7.5	2060	748	1260	(2) 12"	54,320	18' 6-3/8"	36' 2-1/2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 10-3M36	44,080	15,010	64,920	(2) 30	209,060	(2) 7.5	2060	748	1260	(2) 12"	54,420	18' 6-3/8"	36' 2-1/2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 10-3N36	44,400	15,010	65,240	(2) 40	226,590	(2) 7.5	2060	748	1260	(2) 12"	54,740	18' 6-3/8"	36' 2-1/2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 10-4I36	51,280	18,880	74,120	(2) 10	141,990	(2) 7.5	2060	987	1260	(2) 12"	63,620	19' 2-7/8"	36' 2-1/2"	8' 4-1/4"	30-3/4"
eco-ATWB-H 10-4J36	51,540	18,880	74,380	(2) 15	162,540	(2) 7.5	2060	987	1260	(2) 12"	63,880	19' 2-7/8"	36' 2-1/2"	8' 4-1/4"	30-3/4"
eco-ATWB-H 10-4K36	51,660	18,880	74,500	(2) 20	178,900	(2) 7.5	2060	987	1260	(2) 12"	64,000	19' 2-7/8"	36' 2-1/2"	8' 4-1/4"	30-3/4"
eco-ATWB-H 10-4L36	51,720	18,880	74,560	(2) 25	192,710	(2) 7.5	2060	987	1260	(2) 12"	64,060	19' 2-7/8"	36' 2-1/2"	8' 4-1/4"	30-3/4"
eco-ATWB-H 10-4M36	51,820	18,880	74,660	(2) 30	202,970	(2) 7.5	2060	987	1260	(2) 12"	64,160	19' 2-7/8"	36' 2-1/2"	8' 4-1/4"	30-3/4"
eco-ATWB-H 10-4N36	52,140	18,880	74,980	(2) 40	219,990	(2) 7.5	2060	987	1260	(2) 12"	64,480	19' 2-7/8"	36' 2-1/2"	8' 4-1/4"	30-3/4"

† Model Numbers end in "-Z" for units with Series Flow piping configuration. Series Flow units may require additional coil connections and will require crossover piping.

†† Heaviest section is the ARID Fin-Pak™ section and Ellipti-fin® coil sections shipped mounted together.

\* Gallons shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation (12" would normally be sufficient).

△ When a remote sump arrangement is selected, the spray pump, suction strainer and associated piping are omitted; the unit is provided with an oversized outlet to facilitate drainage to the remote sump.

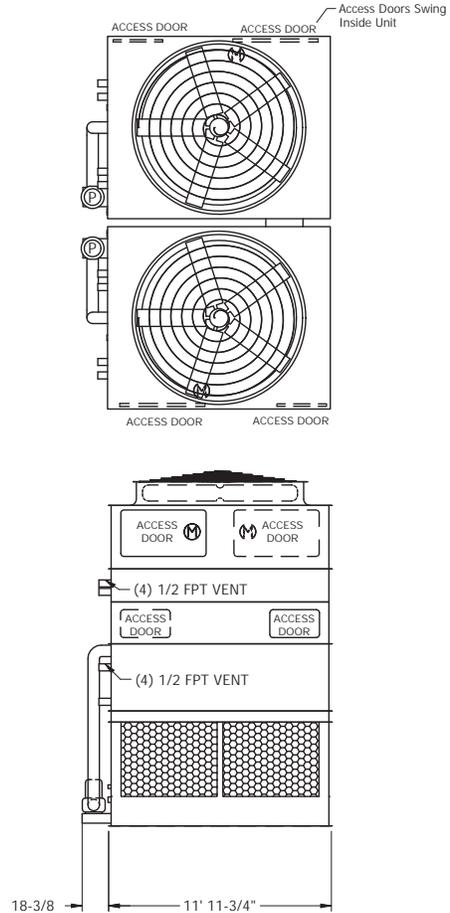
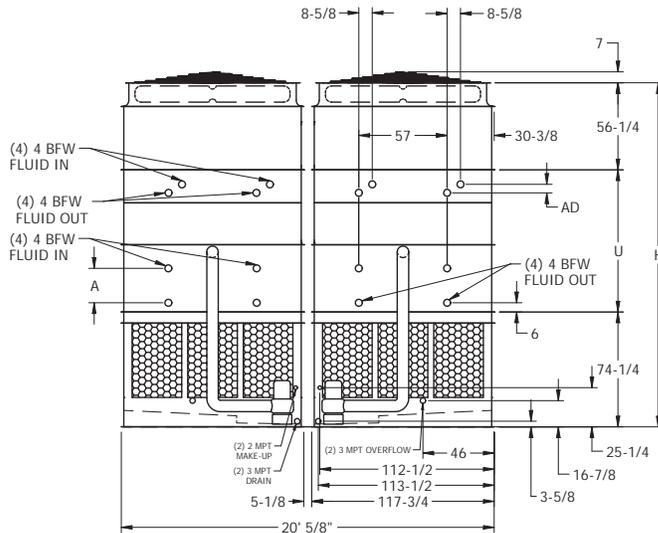
▲ Unit dimensions and coil connections may vary slightly from catalog. See factory certified prints for dimensions, quantity of coil connections, and piping configuration. Coil connections are 4" bevel for weld (BFW), also available as options. Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Dry Coil Section Adds				
ARID Fin-Pak Coil Rows	Coil Volume (gallons)	Shipping Weight (lbs)	Operating Weight (lbs)	Coil AD (in.)
2	54	(2) 3220	6900	5-1/2"
4	111	(2) 4300	9530	5-1/2"
6	165	(2) 5380	12140	6-7/8"
8	221	(2) 6460	14770	9-1/2"

# eco-ATWB-H

## Engineering Data & Dimensions

### eco-ATWB-H Models 20-1112 to 20-4M12



**Note:** The below table lists base unit dimensions and weights. See the table at the bottom Right of the Page for dry coil section dimensions and weight adds.  
**Note:** The number of coil connections doubles when the flow rate exceeds 1,800 GPM on eco-ATWB-H 20x12 models. This required option is referred to as the High Flow coil configuration.

eco-ATWB-H Model Number†	Weights (lbs)			Fans		Spray Pump		Wet Coil Volume (Gallons)	Remote Sump △			Dimensions (ft./in.)			
	Shipping	Heaviest Section††	Operating	HP	CFM	HP	GPM		Gallons Required	Conn. Size	Operating Weight (lbs)	Height H	Length L	Upper U	Coil A
eco-ATWB-H 20-1112	19,800	4,910	31,020	(2) 10	117,850	(2) 5	1370	190	840	(2) 12"	23,880	17' 1-5/8"	11' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 20-1112	20,060	4,910	31,280	(2) 15	134,900	(2) 5	1370	190	840	(2) 12"	24,140	17' 1-5/8"	11' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 20-1K12	20,180	4,910	31,400	(2) 20	147,130	(2) 5	1370	190	840	(2) 12"	24,260	17' 1-5/8"	11' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 20-1L12	20,240	4,910	31,460	(2) 25	156,620	(2) 5	1370	190	840	(2) 12"	24,320	17' 1-5/8"	11' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 20-1M12	20,340	4,910	31,560	(2) 30	164,820	(2) 5	1370	190	840	(2) 12"	24,420	17' 1-5/8"	11' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 20-2112	25,440	7,730	37,980	(2) 10	114,600	(2) 5	1370	348	840	(2) 12"	30,840	17' 9-7/8"	11' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 20-2112	25,700	7,730	38,240	(2) 15	131,190	(2) 5	1370	348	840	(2) 12"	31,100	17' 9-7/8"	11' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 20-2K12	25,820	7,730	38,360	(2) 20	143,080	(2) 5	1370	348	840	(2) 12"	31,220	17' 9-7/8"	11' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 20-2L12	25,880	7,730	38,420	(2) 25	152,310	(2) 5	1370	348	840	(2) 12"	31,280	17' 9-7/8"	11' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 20-2M12	25,980	7,730	38,520	(2) 30	160,280	(2) 5	1370	348	840	(2) 12"	31,380	17' 9-7/8"	11' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 20-3112	30,360	10,190	44,200	(2) 10	111,360	(2) 5	1370	506	840	(2) 12"	37,060	18' 6-3/8"	11' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 20-3112	30,620	10,190	44,460	(2) 15	127,470	(2) 5	1370	506	840	(2) 12"	37,320	18' 6-3/8"	11' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 20-3K12	30,740	10,190	44,580	(2) 20	139,030	(2) 5	1370	506	840	(2) 12"	37,440	18' 6-3/8"	11' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 20-3L12	30,800	10,190	44,640	(2) 25	148,000	(2) 5	1370	506	840	(2) 12"	37,500	18' 6-3/8"	11' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 20-3M12	30,900	10,190	44,740	(2) 30	155,750	(2) 5	1370	506	840	(2) 12"	37,600	18' 6-3/8"	11' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 20-4112	35,560	12,790	50,720	(2) 10	108,120	(2) 5	1370	664	840	(2) 12"	43,580	19' 2-7/8"	11' 11-3/4"	8' 4-1/4"	30-3/4"
eco-ATWB-H 20-4112	35,820	12,790	50,980	(2) 15	123,760	(2) 5	1370	664	840	(2) 12"	43,840	19' 2-7/8"	11' 11-3/4"	8' 4-1/4"	30-3/4"
eco-ATWB-H 20-4K12	35,940	12,790	51,100	(2) 20	134,980	(2) 5	1370	664	840	(2) 12"	43,960	19' 2-7/8"	11' 11-3/4"	8' 4-1/4"	30-3/4"
eco-ATWB-H 20-4L12	36,000	12,790	51,160	(2) 25	143,690	(2) 5	1370	664	840	(2) 12"	44,020	19' 2-7/8"	11' 11-3/4"	8' 4-1/4"	30-3/4"
eco-ATWB-H 20-4M12	36,100	12,790	51,260	(2) 30	151,210	(2) 5	1370	664	840	(2) 12"	44,120	19' 2-7/8"	11' 11-3/4"	8' 4-1/4"	30-3/4"

† Model Numbers end in "-Z" for units with Series Flow piping configuration. Series Flow units may require additional coil connections and will require crossover piping.  
 †† Heaviest section is the ARID *Fin-Pak*™ section and Ellipti-*fin*® coil sections shipped mounted together.  
 \* Gallons shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation (12" would normally be sufficient).  
 △ When a remote sump arrangement is selected, the spray pump, suction strainer and associated piping are omitted; the unit is provided with an oversized outlet to facilitate drainage to the remote sump.  
 ▲ Unit dimensions and coil connections may vary slightly from catalog. See factory certified prints for dimensions, quantity of coil connections, and piping configuration. Coil connections are 4" bevel for weld (BFW), also available as options. Other connection types such as grooved for mechanical coupling or flanged are also available as options.

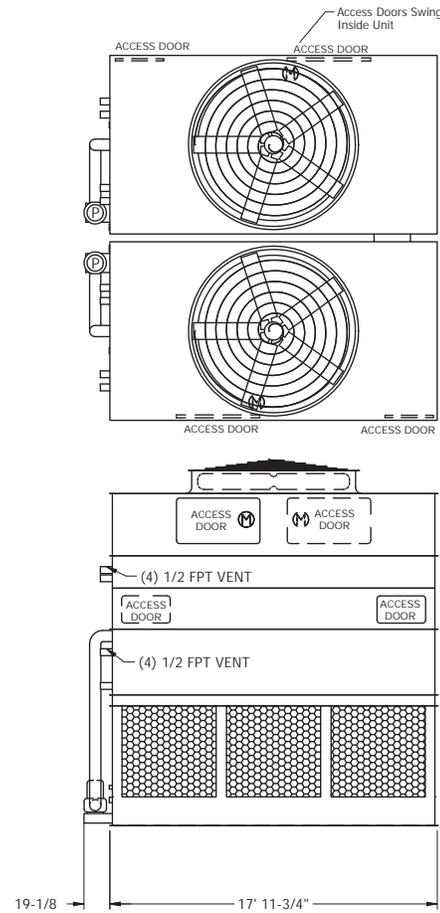
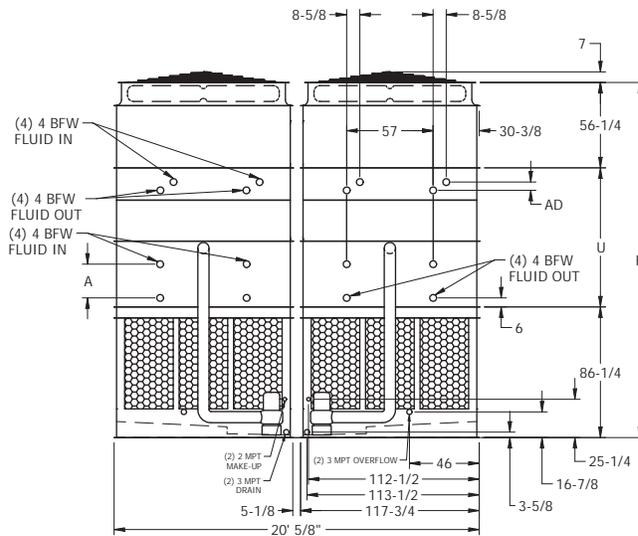
Dry Coil Section Adds				
ARID Fin-Pak Coil Rows	Coil Volume (gallons)	Shipping Weight (lbs)	Operating Weight (lbs)	Coil AD (in.)
2	36	(2) 2430	5160	5-1/2"
4	72	(2) 3140	6890	5-1/2"
6	111	(2) 3860	8630	6-7/8"
8	147	(2) 4570	10370	9-1/2"



# eco-ATWB-H

## Engineering Data & Dimensions

### eco-ATWB-H Models 10-1136 to 10-4N36



**Note:** The below table lists base unit dimensions and weights. See the table at the bottom Right of the Page for dry coil section dimensions and weight adds.

**Note:** The number of coil connections doubles when the flow rate exceeds 1,800 GPM on eco-ATWB-H 20x18 models. This required option is referred to as the High Flow coil configuration.

eco-ATWB-H Model Number†	Weights (lbs)			Fans		Spray Pump		Wet Coil Volume (Gallons)	Remote Sump <sup>△</sup>			Dimensions (ft./in.)			
	Shipping	Heaviest Section††	Operating	HP	CFM	HP	GPM		Gallons Required	Conn. Size	Operating Weight (lbs)	Height H	Length L	Upper U	Coil A
eco-ATWB-H 20-1118	27,560	7,000	44,420	(2) 10	154,770	(2) 7.5	2060	271	1260	(2) 12"	33,920	18' 1-5/8"	18' 0"	6' 3"	5-1/2"
eco-ATWB-H 20-1118	27,820	7,000	44,680	(2) 15	177,170	(2) 7.5	2060	271	1260	(2) 12"	34,180	18' 1-5/8"	18' 0"	6' 3"	5-1/2"
eco-ATWB-H 20-1K18	27,940	7,000	44,800	(2) 20	195,000	(2) 7.5	2060	271	1260	(2) 12"	34,300	18' 1-5/8"	18' 0"	6' 3"	5-1/2"
eco-ATWB-H 20-1L18	28,000	7,000	44,860	(2) 25	210,060	(2) 7.5	2060	271	1260	(2) 12"	34,360	18' 1-5/8"	18' 0"	6' 3"	5-1/2"
eco-ATWB-H 20-1M18	28,100	7,000	44,960	(2) 30	221,240	(2) 7.5	2060	271	1260	(2) 12"	34,460	18' 1-5/8"	18' 0"	6' 3"	5-1/2"
eco-ATWB-H 20-1N18	28,420	7,000	45,280	(2) 40	239,790	(2) 7.5	2060	271	1260	(2) 12"	34,780	18' 1-5/8"	18' 0"	6' 3"	5-1/2"
eco-ATWB-H 20-2118	36,060	11,250	54,920	(2) 10	150,510	(2) 7.5	2060	510	1260	(2) 12"	44,420	18' 9-7/8"	18' 0"	6' 11-1/4"	13-3/4"
eco-ATWB-H 20-2J18	36,320	11,250	55,180	(2) 15	172,290	(2) 7.5	2060	510	1260	(2) 12"	44,680	18' 9-7/8"	18' 0"	6' 11-1/4"	13-3/4"
eco-ATWB-H 20-2K18	36,440	11,250	55,300	(2) 20	189,630	(2) 7.5	2060	510	1260	(2) 12"	44,800	18' 9-7/8"	18' 0"	6' 11-1/4"	13-3/4"
eco-ATWB-H 20-2L18	36,500	11,250	55,360	(2) 25	204,280	(2) 7.5	2060	510	1260	(2) 12"	44,860	18' 9-7/8"	18' 0"	6' 11-1/4"	13-3/4"
eco-ATWB-H 20-2M18	36,600	11,250	55,460	(2) 30	215,150	(2) 7.5	2060	510	1260	(2) 12"	44,960	18' 9-7/8"	18' 0"	6' 11-1/4"	13-3/4"
eco-ATWB-H 20-2N18	36,920	11,250	55,780	(2) 40	233,190	(2) 7.5	2060	510	1260	(2) 12"	45,280	18' 9-7/8"	18' 0"	6' 11-1/4"	13-3/4"
eco-ATWB-H 20-3118	43,580	15,010	64,420	(2) 10	146,250	(2) 7.5	2060	748	1260	(2) 12"	53,920	19' 6-3/8"	18' 0"	7' 7-3/4"	22-1/4"
eco-ATWB-H 20-3J18	43,840	15,010	64,680	(2) 15	167,420	(2) 7.5	2060	748	1260	(2) 12"	54,180	19' 6-3/8"	18' 0"	7' 7-3/4"	22-1/4"
eco-ATWB-H 20-3K18	43,960	15,010	64,800	(2) 20	184,270	(2) 7.5	2060	748	1260	(2) 12"	54,300	19' 6-3/8"	18' 0"	7' 7-3/4"	22-1/4"
eco-ATWB-H 20-3L18	44,020	15,010	64,860	(2) 25	198,490	(2) 7.5	2060	748	1260	(2) 12"	54,360	19' 6-3/8"	18' 0"	7' 7-3/4"	22-1/4"
eco-ATWB-H 20-3M18	44,120	15,010	64,960	(2) 30	209,060	(2) 7.5	2060	748	1260	(2) 12"	54,460	19' 6-3/8"	18' 0"	7' 7-3/4"	22-1/4"
eco-ATWB-H 20-3N18	44,440	15,010	65,280	(2) 40	226,590	(2) 7.5	2060	748	1260	(2) 12"	54,780	19' 6-3/8"	18' 0"	7' 7-3/4"	22-1/4"
eco-ATWB-H 20-4118	51,320	18,880	74,160	(2) 10	141,990	(2) 7.5	2060	987	1260	(2) 12"	63,660	20' 2-7/8"	18' 0"	8' 4-1/4"	30-3/4"
eco-ATWB-H 20-4J18	51,580	18,880	74,420	(2) 15	162,540	(2) 7.5	2060	987	1260	(2) 12"	63,920	20' 2-7/8"	18' 0"	8' 4-1/4"	30-3/4"
eco-ATWB-H 20-4K18	51,700	18,880	74,540	(2) 20	178,900	(2) 7.5	2060	987	1260	(2) 12"	64,040	20' 2-7/8"	18' 0"	8' 4-1/4"	30-3/4"
eco-ATWB-H 20-4L18	51,760	18,880	74,600	(2) 25	192,710	(2) 7.5	2060	987	1260	(2) 12"	64,100	20' 2-7/8"	18' 0"	8' 4-1/4"	30-3/4"
eco-ATWB-H 20-4M18	51,860	18,880	74,700	(2) 30	202,970	(2) 7.5	2060	987	1260	(2) 12"	64,200	20' 2-7/8"	18' 0"	8' 4-1/4"	30-3/4"
eco-ATWB-H 20-4N18	52,180	18,880	75,020	(2) 40	219,990	(2) 7.5	2060	987	1260	(2) 12"	64,520	20' 2-7/8"	18' 0"	8' 4-1/4"	30-3/4"

† Model Numbers end in "Z" for units with Series Flow piping configuration. Series Flow units may require additional coil connections and will require crossover piping.

†† Heaviest section is the ARID Fin-Pak™ section and Ellipti-fin® coil sections shipped mounted together.

\* Gallons shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation (12" would normally be sufficient).

△ When a remote sump arrangement is selected, the spray pump, suction strainer and associated piping are omitted; the unit is provided with an oversized outlet to facilitate drainage to the remote sump.

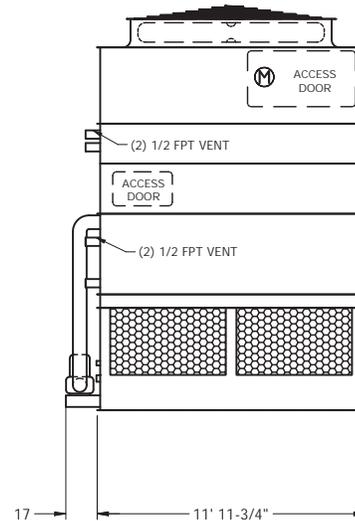
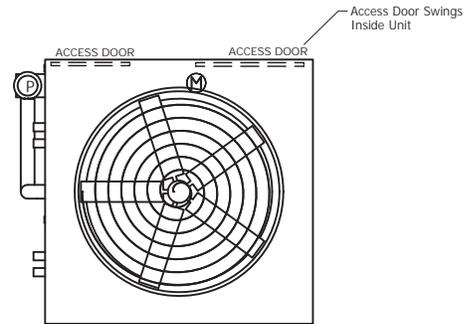
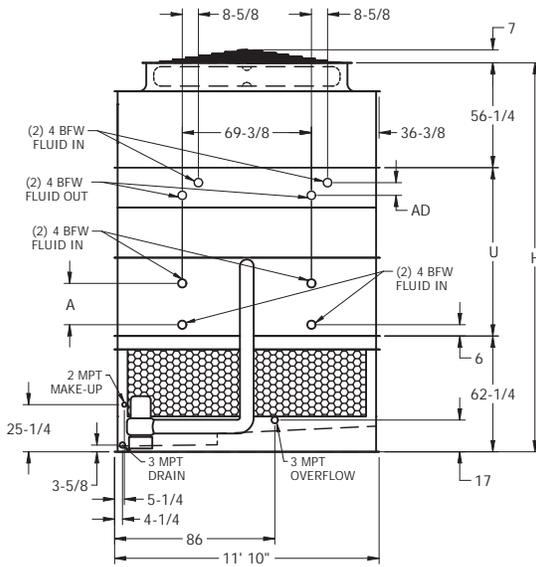
▲ Unit dimensions and coil connections may vary slightly from catalog. See factory certified prints for dimensions, quantity of coil connections, and piping configuration. Coil connections are 4" bevel for weld (BFW), also available as options. Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Dry Coil Section Adds				
ARID Fin-Pak Coil Rows	Coil Volume (gallons)	Shipping Weight (lbs)	Operating Weight (lbs)	Coil AD (in.)
2	54	(2) 3220	6900	5-1/2"
4	111	(2) 4300	9530	5-1/2"
6	165	(2) 5380	12140	6-7/8"
8	221	(2) 6460	14770	9-1/2"

# eco-ATWB-H

## Engineering Data & Dimensions

### eco-ATWB-H Models 12-1J12 to 12-4N12



**Note:** The below table lists base unit dimensions and weights. See the table at the bottom Right of the Page for dry coil section dimensions and weight adds.  
**Note:** The number of coil connections doubles when the flow rate exceeds 900 GPM on eco-ATWB-H 12x12 models. This required option is referred to as the High Flow coil configuration.

eco-ATWB-H Model Number†	Weights (lbs)			Fans		Spray Pump		Wet Coil Volume (Gallons)	Remote Sump <sup>△</sup>			Dimensions (ft./in.)			
	Shipping	Heaviest Section††	Operating	HP	CFM	HP	GPM		Gallons Required	Conn. Size	Operating Weight (lbs)	Height H	Length L	Upper U	Coil A
eco-ATWB-H 12-1J12	10,940	5,400	17,510	15	76,720	5	800	117	490	12"	13,560	16' 1-5/8"	11' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 12-1K12	11,000	5,400	17,570	20	84,440	5	800	117	490	12"	13,620	16' 1-5/8"	11' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 12-1L12	11,030	5,400	17,600	25	89,990	5	800	117	490	12"	13,650	16' 1-5/8"	11' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 12-1M12	11,080	5,400	17,650	30	94,710	5	800	117	490	12"	13,700	16' 1-5/8"	11' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 12-2J12	14,230	8,690	21,610	15	74,610	5	800	214	490	12"	17,660	16' 9-7/8"	11' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-2K12	14,290	8,690	21,670	20	82,120	5	800	214	490	12"	17,720	16' 9-7/8"	11' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-2L12	14,320	8,690	21,700	25	87,520	5	800	214	490	12"	17,750	16' 9-7/8"	11' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-2M12	14,370	8,690	21,750	30	92,100	5	800	214	490	12"	17,800	16' 9-7/8"	11' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-3J12	17,380	11,840	25,570	15	72,500	5	800	312	490	12"	21,620	17' 6-3/8"	11' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-3K12	17,440	11,840	25,630	20	79,790	5	800	312	490	12"	21,680	17' 6-3/8"	11' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-3L12	17,470	11,840	25,660	25	85,040	5	800	312	490	12"	21,710	17' 6-3/8"	11' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-3M12	17,520	11,840	25,710	30	89,490	5	800	312	490	12"	21,760	17' 6-3/8"	11' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-4J12	20,570	15,030	29,580	15	70,390	5	800	409	490	12"	25,630	18' 2-7/8"	11' 11-3/4"	8' 4-1/4"	30-3/4"
eco-ATWB-H 12-4K12	20,630	15,030	29,640	20	77,470	5	800	409	490	12"	25,690	18' 2-7/8"	11' 11-3/4"	8' 4-1/4"	30-3/4"
eco-ATWB-H 12-4L12	20,660	15,030	29,670	25	82,560	5	800	409	490	12"	25,720	18' 2-7/8"	11' 11-3/4"	8' 4-1/4"	30-3/4"
eco-ATWB-H 12-4M12	20,710	15,030	29,720	30	86,890	5	800	409	490	12"	25,770	18' 2-7/8"	11' 11-3/4"	8' 4-1/4"	30-3/4"
eco-ATWB-H 12-4N12	20,870	15,030	29,880	40	94,180	5	800	409	490	12"	25,930	18' 2-7/8"	11' 11-3/4"	8' 4-1/4"	30-3/4"

† Model Numbers end in "Z" for units with Series Flow piping configuration. Series Flow units may require additional coil connections and will require crossover piping.

†† Heaviest section is the ARID Fin-Pak™ section and Ellipti-fin® coil sections shipped mounted together.

\* Gallons shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation (12" would normally be sufficient).

△ When a remote sump arrangement is selected, the spray pump, suction strainer and associated piping are omitted; the unit is provided with an oversized outlet to facilitate drainage to the remote sump.

▲ Unit dimensions and coil connections may vary slightly from catalog. See factory certified prints for dimensions, quantity of coil connections, and piping configuration. Coil connections are 4" bevel for weld (BFW), also available as options. Other connection types such as grooved for mechanical coupling or flanged are also available as options.

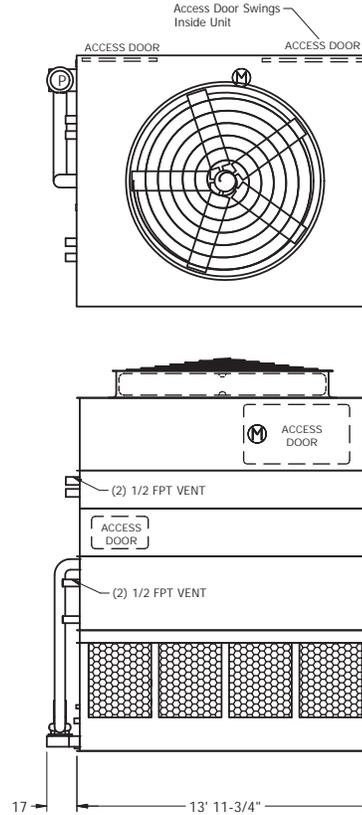
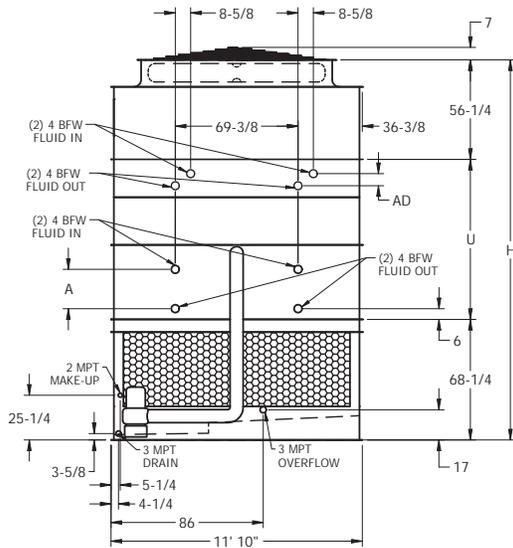
Dry Coil Section Adds				
ARID Fin-Pak Coil Rows	Coil Volume (gallons)	Shipping Weight (lbs)	Operating Weight (lbs)	Coil AD (in.)
2	22	2820	3010	5-1/2"
4	45	3700	4070	5-1/2"
6	67	4570	5130	6-7/8"
8	90	5440	6190	9-1/2"



# eco-ATWB-H

## Engineering Data & Dimensions

### eco-ATWB-H Models 12-1K14 to 12-4N14



**Note:** The below table lists base unit dimensions and weights. See the table at the bottom Right of the Page for dry coil section dimensions and weight adds.  
**Note:** The number of coil connections doubles when the flow rate exceeds 900 GPM on eco-ATWB-H 12x14 models. This required option is referred to as the High Flow coil configuration.

eco-ATWB-H Model Number†	Weights (lbs)			Fans		Spray Pump		Wet Coil Volume (Gallons)	Remote Sump <sup>△</sup>			Dimensions (ft./in.)			
	Shipping	Heaviest Section††	Operating	HP	CFM	HP	GPM		Gallons Required	Conn. Size	Operating Weight (lbs)	Height H	Length L	Upper U	Coil A
eco-ATWB-H 12-1K14	12,310	6,130	20,030	20	93,600	5	900	134	570	12"	15,460	16' 7-5/8"	13' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 12-1L14	12,340	6,130	20,060	25	100,580	5	900	134	570	12"	15,490	16' 7-5/8"	13' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 12-1M14	12,390	6,130	20,110	30	105,850	5	900	134	570	12"	15,540	16' 7-5/8"	13' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 12-1N14	12,550	6,130	20,270	40	114,730	5	900	134	570	12"	15,700	16' 7-5/8"	13' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 12-2K14	16,070	9,890	24,740	20	91,030	5	900	248	570	12"	20,170	17' 3-7/8"	13' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-2L14	16,100	9,890	24,770	25	97,810	5	900	248	570	12"	20,200	17' 3-7/8"	13' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-2M14	16,150	9,890	24,820	30	102,940	5	900	248	570	12"	20,250	17' 3-7/8"	13' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-2N14	16,310	9,890	24,980	40	111,570	5	900	248	570	12"	20,410	17' 3-7/8"	13' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-3K14	19,820	13,640	29,440	20	88,450	5	900	362	570	12"	24,870	18' 3/8"	13' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-3L14	19,850	13,640	29,470	25	95,050	5	900	362	570	12"	24,900	18' 3/8"	13' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-3M14	19,900	13,640	29,520	30	100,020	5	900	362	570	12"	24,950	18' 3/8"	13' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-3N14	20,060	13,640	29,680	40	108,410	5	900	362	570	12"	25,110	18' 3/8"	13' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-4K14	23,540	17,360	34,110	20	85,870	5	900	476	570	12"	29,540	18' 8-7/8"	13' 11-3/4"	8' 4-1/4"	30-3/4"
eco-ATWB-H 12-4L14	23,570	17,360	34,140	25	92,280	5	900	476	570	12"	29,570	18' 8-7/8"	13' 11-3/4"	8' 4-1/4"	30-3/4"
eco-ATWB-H 12-4M14	23,620	17,360	34,190	30	97,110	5	900	476	570	12"	29,620	18' 8-7/8"	13' 11-3/4"	8' 4-1/4"	30-3/4"
eco-ATWB-H 12-4N14	23,780	17,360	34,350	40	105,260	5	900	476	570	12"	29,780	18' 8-7/8"	13' 11-3/4"	8' 4-1/4"	30-3/4"

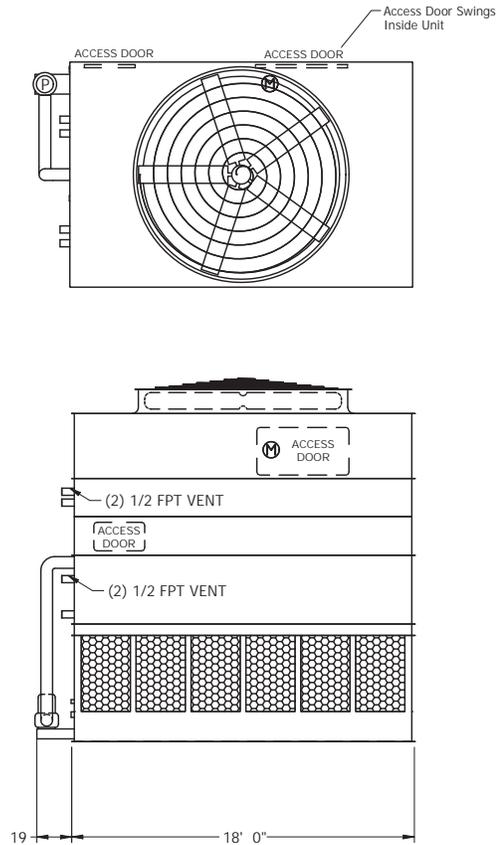
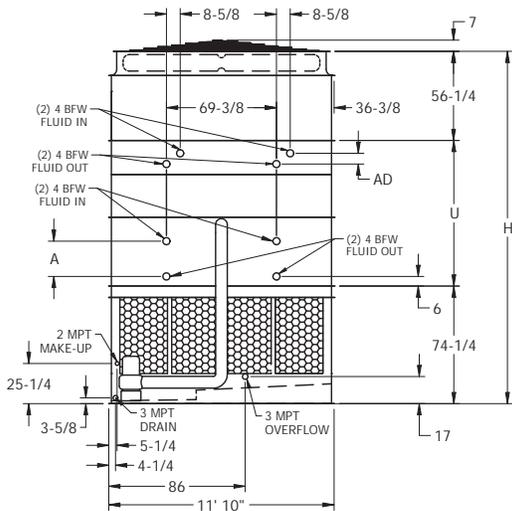
- † Model Numbers end in "-Z" for units with Series Flow piping configuration. Series Flow units may require additional coil connections and will require crossover piping.
- †† Heaviest section is the ARID Fin-Pak™ section and Ellipti-fin® coil sections shipped mounted together.
- \* Gallons shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation (12" would normally be sufficient).
- △ When a remote sump arrangement is selected, the spray pump, suction strainer and associated piping are omitted; the unit is provided with an oversized outlet to facilitate drainage to the remote sump.
- ▲ Unit dimensions and coil connections may vary slightly from catalog. See factory certified prints for dimensions, quantity of coil connections, and piping configuration. Coil connections are 4" bevel for weld (BFW), also available as options. Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Dry Coil Section Adds				
ARID Fin-Pak Coil Rows	Coil Volume (gallons)	Shipping Weight (lbs)	Operating Weight (lbs)	Coil AD (in.)
2	27	3120	3350	5-1/2"
4	52	4150	4580	5-1/2"
6	79	5180	5840	6-7/8"
8	105	6200	7070	9-1/2"

# eco-ATWB-H

## Engineering Data & Dimensions

### eco-ATWB-H Models 12-1K18 to 12-4O18



**Note:** The below table lists base unit dimensions and weights. See the table at the bottom Right of the Page for dry coil section dimensions and weight adds.  
**Note:** The number of coil connections doubles when the flow rate exceeds 900 GPM on eco-ATWB-H 12x18 models. This required option is referred to as the High Flow coil configuration.

eco-ATWB-H Model Number†	Weights (lbs)			Fans		Spray Pump		Wet Coil Volume (Gallons)	Remote Sump $\Delta$			Dimensions (ft./in.)			
	Shipping	Heaviest Section††	Operating	HP	CFM	HP	GPM		Gallons Required	Conn. Size	Operating Weight (lbs)	Height H	Length L	Upper U	Coil A
eco-ATWB-H 12-1K18	15,350	7,760	25,090	20	114,330	7.5	1200	167	720	12"	19,220	17' 1-5/8"	18' 0"	6' 3"	5-1/2"
eco-ATWB-H 12-1L18	15,380	7,760	25,120	25	123,160	7.5	1200	167	720	12"	19,250	17' 1-5/8"	18' 0"	6' 3"	5-1/2"
eco-ATWB-H 12-1M18	15,430	7,760	25,170	30	130,880	7.5	1200	167	720	12"	19,300	17' 1-5/8"	18' 0"	6' 3"	5-1/2"
eco-ATWB-H 12-1N18	15,590	7,760	25,330	40	142,040	7.5	1200	167	720	12"	19,460	17' 1-5/8"	18' 0"	6' 3"	5-1/2"
eco-ATWB-H 12-2K18	20,360	12,770	31,330	20	111,190	7.5	1200	314	720	12"	25,460	17' 9-7/8"	18' 0"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-2L18	20,390	12,770	31,360	25	119,770	7.5	1200	314	720	12"	25,490	17' 9-7/8"	18' 0"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-2M18	20,440	12,770	31,410	30	127,280	7.5	1200	314	720	12"	25,540	17' 9-7/8"	18' 0"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-2N18	20,600	12,770	31,570	40	138,130	7.5	1200	314	720	12"	25,700	17' 9-7/8"	18' 0"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-3K18	25,050	17,460	37,250	20	108,040	7.5	1200	461	720	12"	31,380	18' 6-3/8"	18' 0"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-3L18	25,080	17,460	37,280	25	116,380	7.5	1200	461	720	12"	31,410	18' 6-3/8"	18' 0"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-3M18	25,130	17,460	37,330	30	123,680	7.5	1200	461	720	12"	31,460	18' 6-3/8"	18' 0"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-3N18	25,290	17,460	37,490	40	134,230	7.5	1200	461	720	12"	31,620	18' 6-3/8"	18' 0"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-4K18	29,800	22,210	43,230	20	104,890	7.5	1200	608	720	12"	37,360	19' 2-7/8"	18' 0"	8' 4-1/4"	30-3/4"
eco-ATWB-H 12-4L18	29,830	22,210	43,260	25	112,990	7.5	1200	608	720	12"	37,390	19' 2-7/8"	18' 0"	8' 4-1/4"	30-3/4"
eco-ATWB-H 12-4M18	29,880	22,210	43,310	30	120,070	7.5	1200	608	720	12"	37,440	19' 2-7/8"	18' 0"	8' 4-1/4"	30-3/4"
eco-ATWB-H 12-4N18	30,040	22,210	43,470	40	130,320	7.5	1200	608	720	12"	37,600	19' 2-7/8"	18' 0"	8' 4-1/4"	30-3/4"
eco-ATWB-H 12-4O18	30,050	22,210	43,480	50	138,720	7.5	1200	608	720	12"	37,610	19' 2-7/8"	18' 0"	8' 4-1/4"	30-3/4"

† Model Numbers end in "Z" for units with Series Flow piping configuration. Series Flow units may require additional coil connections and will require crossover piping.

†† Heaviest section is the ARID Fin-Pak™ section and Ellipti-fin® coil sections shipped mounted together.

\* Gallons shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation (12" would normally be sufficient).

$\Delta$  When a remote sump arrangement is selected, the spray pump, suction strainer and associated piping are omitted; the unit is provided with an oversized outlet to facilitate drainage to the remote sump.

▲ Unit dimensions and coil connections may vary slightly from catalog. See factory certified prints for dimensions, quantity of coil connections, and piping configuration. Coil connections are 4" bevel for weld (BFW), also available as options. Other connection types such as grooved for mechanical coupling or flanged are also available as options.

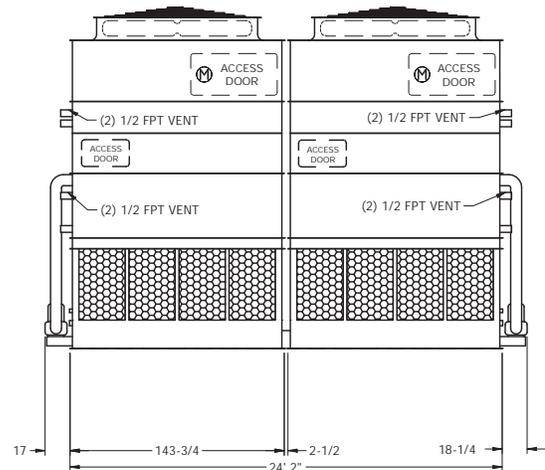
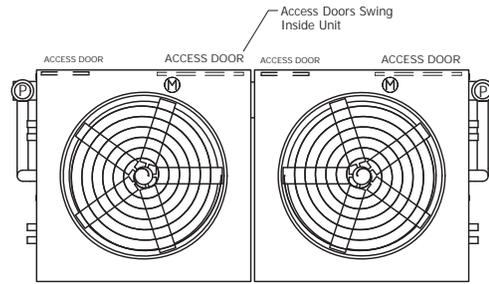
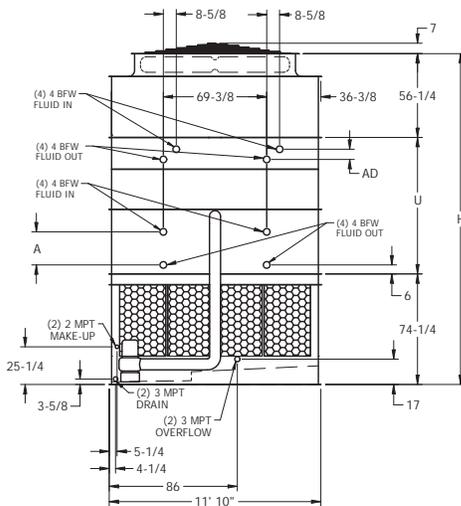
Dry Coil Section Adds				
ARID Fin-Pak Coil Rows	Coil Volume (gallons)	Shipping Weight (lbs)	Operating Weight (lbs)	Coil AD (in.)
2	34	3730	4010	5-1/2"
4	67	5050	5610	5-1/2"
6	102	6380	7230	6-7/8"
8	136	7720	8850	9-1/2"



# eco-ATWB-H

## Engineering Data & Dimensions

### eco-ATWB-H Models 12-1J24 to 12-4N24



**Note:** The below table lists base unit dimensions and weights. See the table at the bottom Right of the Page for dry coil section dimensions and weight adds.  
**Note:** The number of coil connections doubles when the flow rate exceeds 1,800 GPM on eco-ATWB-H 12x24 models. This required option is referred to as the High Flow coil configuration.

eco-ATWB-H Model Number†	Weights (lbs)			Fans		Spray Pump		Wet Coil Volume (Gallons)	Remote Sump $\Delta$			Dimensions (ft./in.)			
	Shipping	Heaviest Section††	Operating	HP	CFM	HP	GPM		Gallons Required	Conn. Size	Operating Weight (lbs)	Height H	Length L	Upper U	Coil A
eco-ATWB-H 12-1J24	21,720	5,320	34,860	(2) 15	153,440	(2) 5	1600	234	980	(2) 12"	26,960	17' 1-5/8"	24' 2"	6' 3"	5-1/2"
eco-ATWB-H 12-1K24	21,840	5,320	34,980	(2) 20	168,880	(2) 5	1600	234	980	(2) 12"	27,080	17' 1-5/8"	24' 2"	6' 3"	5-1/2"
eco-ATWB-H 12-1L24	21,900	5,320	35,040	(2) 25	179,990	(2) 5	1600	234	980	(2) 12"	27,140	17' 1-5/8"	24' 2"	6' 3"	5-1/2"
eco-ATWB-H 12-1M24	22,000	5,320	35,140	(2) 30	189,420	(2) 5	1600	234	980	(2) 12"	27,240	17' 1-5/8"	24' 2"	6' 3"	5-1/2"
eco-ATWB-H 12-2J24	28,380	8,650	43,140	(2) 15	149,220	(2) 5	1600	428	980	(2) 12"	35,240	17' 9-7/8"	24' 2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-2K24	28,500	8,650	43,260	(2) 20	164,240	(2) 5	1600	428	980	(2) 12"	35,360	17' 9-7/8"	24' 2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-2L24	28,560	8,650	43,320	(2) 25	175,030	(2) 5	1600	428	980	(2) 12"	35,420	17' 9-7/8"	24' 2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-2M24	28,660	8,650	43,420	(2) 30	184,200	(2) 5	1600	428	980	(2) 12"	35,520	17' 9-7/8"	24' 2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-3J24	34,760	11,840	51,140	(2) 15	145,000	(2) 5	1600	623	980	(2) 12"	43,240	18' 6-3/8"	24' 2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-3K24	34,880	11,840	51,260	(2) 20	159,590	(2) 5	1600	623	980	(2) 12"	43,360	18' 6-3/8"	24' 2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-3L24	34,940	11,840	51,320	(2) 25	170,080	(2) 5	1600	623	980	(2) 12"	43,420	18' 6-3/8"	24' 2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-3M24	35,040	11,840	51,420	(2) 30	178,990	(2) 5	1600	623	980	(2) 12"	43,520	18' 6-3/8"	24' 2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-4K24	41,260	15,030	59,280	(2) 20	154,940	(2) 5	1600	818	980	(2) 12"	51,380	19' 2-7/8"	24' 2"	8' 4-1/4"	30-3/4"
eco-ATWB-H 12-4L24	41,320	15,030	59,340	(2) 25	165,130	(2) 5	1600	818	980	(2) 12"	51,440	19' 2-7/8"	24' 2"	8' 4-1/4"	30-3/4"
eco-ATWB-H 12-4M24	41,420	15,030	59,440	(2) 30	173,780	(2) 5	1600	818	980	(2) 12"	51,540	19' 2-7/8"	24' 2"	8' 4-1/4"	30-3/4"
eco-ATWB-H 12-4N24	41,740	15,030	59,760	(2) 40	188,350	(2) 5	1600	818	980	(2) 12"	51,860	19' 2-7/8"	24' 2"	8' 4-1/4"	30-3/4"

† Model Numbers end in "-Z" for units with Series Flow piping configuration. Series Flow units may require additional coil connections and will require crossover piping.

†† Heaviest section is the ARID *Fin-Pak*™ section and Ellipti-*fin*® coil sections shipped mounted together.

\* Gallons shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation (12" would normally be sufficient).

$\Delta$  When a remote sump arrangement is selected, the spray pump, suction strainer and associated piping are omitted; the unit is provided with an oversized outlet to facilitate drainage to the remote sump.

▲ Unit dimensions and coil connections may vary slightly from catalog. See factory certified prints for dimensions, quantity of coil connections, and piping configuration. Coil connections are 4" bevel for weld (BFW), also available as options. Other connection types such as grooved for mechanical coupling or flanged are also available as options.

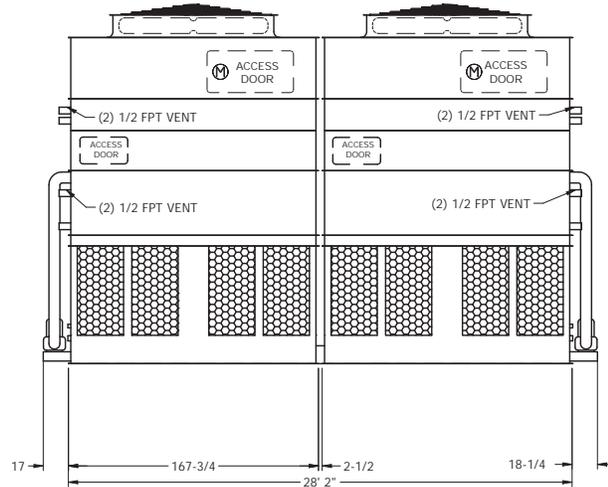
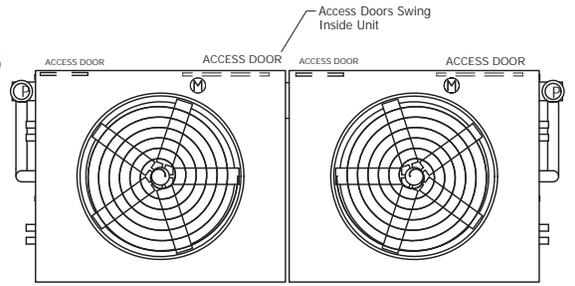
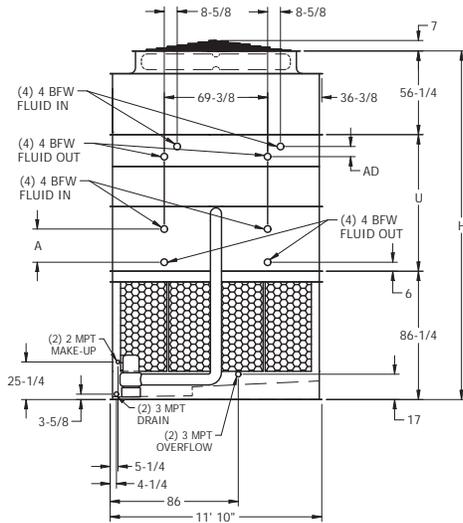
Dry Coil Section Adds				
ARID Fin-Pak Coil Rows	Coil Volume (gallons)	Shipping Weight (lbs)	Operating Weight (lbs)	Coil AD (in.)
2	45	(2) 2820	6010	5-1/2"
4	90	(2) 3700	8140	5-1/2"
6	135	(2) 4570	10260	6-7/8"
8	180	(2) 5440	12380	9-1/2"



# eco-ATWB-H

## Engineering Data & Dimensions

### eco-ATWB-H Models 12-1K28 to 12-4N28



**Note:** The below table lists base unit dimensions and weights. See the table at the bottom Right of the Page for dry coil section dimensions and weight adds.  
**Note:** The number of coil connections doubles when the flow rate exceeds 1,800 GPM on eco-ATWB-H 12x28 models. This required option is referred to as the High Flow coil configuration.

eco-ATWB-H Model Number†	Weights (lbs)			Fans		Spray Pump		Wet Coil Volume (Gallons)	Remote Sump <sup>△</sup>			Dimensions (ft./in.)			
	Shipping	Heaviest Section††	Operating	HP	CFM	HP	GPM		Gallons Required	Conn. Size	Operating Weight (lbs)	Height H	Length L	Upper U	Coil A
eco-ATWB-H 12-1K28	24,420	6,030	39,860	(2) 20	187,210	(2) 5	1800	267	1140	(2) 12"	30,720	18' 1-5/8"	28' 2"	6' 3"	5-1/2"
eco-ATWB-H 12-1L28	24,480	6,030	39,920	(2) 25	201,170	(2) 5	1800	267	1140	(2) 12"	30,780	18' 1-5/8"	28' 2"	6' 3"	5-1/2"
eco-ATWB-H 12-1M28	24,580	6,030	40,020	(2) 30	211,700	(2) 5	1800	267	1140	(2) 12"	30,880	18' 1-5/8"	28' 2"	6' 3"	5-1/2"
eco-ATWB-H 12-1N28	24,900	6,030	40,340	(2) 40	229,460	(2) 5	1800	267	1140	(2) 12"	31,200	18' 1-5/8"	28' 2"	6' 3"	5-1/2"
eco-ATWB-H 12-2K28	32,020	9,830	49,360	(2) 20	182,050	(2) 5	1800	495	1140	(2) 12"	40,220	18' 9-7/8"	28' 2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-2L28	32,080	9,830	49,420	(2) 25	195,630	(2) 5	1800	495	1140	(2) 12"	40,280	18' 9-7/8"	28' 2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-2M28	32,180	9,830	49,520	(2) 30	205,880	(2) 5	1800	495	1140	(2) 12"	40,380	18' 9-7/8"	28' 2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-2N28	32,500	9,830	49,840	(2) 40	223,140	(2) 5	1800	495	1140	(2) 12"	40,700	18' 9-7/8"	28' 2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-3K28	39,640	13,640	58,880	(2) 20	176,900	(2) 5	1800	723	1140	(2) 12"	49,740	19' 6-3/8"	28' 2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-3L28	39,700	13,640	58,940	(2) 25	190,090	(2) 5	1800	723	1140	(2) 12"	49,800	19' 6-3/8"	28' 2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-3M28	39,800	13,640	59,040	(2) 30	200,050	(2) 5	1800	723	1140	(2) 12"	49,900	19' 6-3/8"	28' 2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-3N28	40,120	13,640	59,360	(2) 40	216,830	(2) 5	1800	723	1140	(2) 12"	50,220	19' 6-3/8"	28' 2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-4K28	47,080	17,360	68,220	(2) 20	171,750	(2) 5	1800	951	1140	(2) 12"	59,080	20' 2-7/8"	28' 2"	8' 4-1/4"	30-3/4"
eco-ATWB-H 12-4L28	47,140	17,360	68,280	(2) 25	184,560	(2) 5	1800	951	1140	(2) 12"	59,140	20' 2-7/8"	28' 2"	8' 4-1/4"	30-3/4"
eco-ATWB-H 12-4M28	47,240	17,360	68,380	(2) 30	194,220	(2) 5	1800	951	1140	(2) 12"	59,240	20' 2-7/8"	28' 2"	8' 4-1/4"	30-3/4"
eco-ATWB-H 12-4N28	47,560	17,360	68,700	(2) 40	210,510	(2) 5	1800	951	1140	(2) 12"	59,560	20' 2-7/8"	28' 2"	8' 4-1/4"	30-3/4"

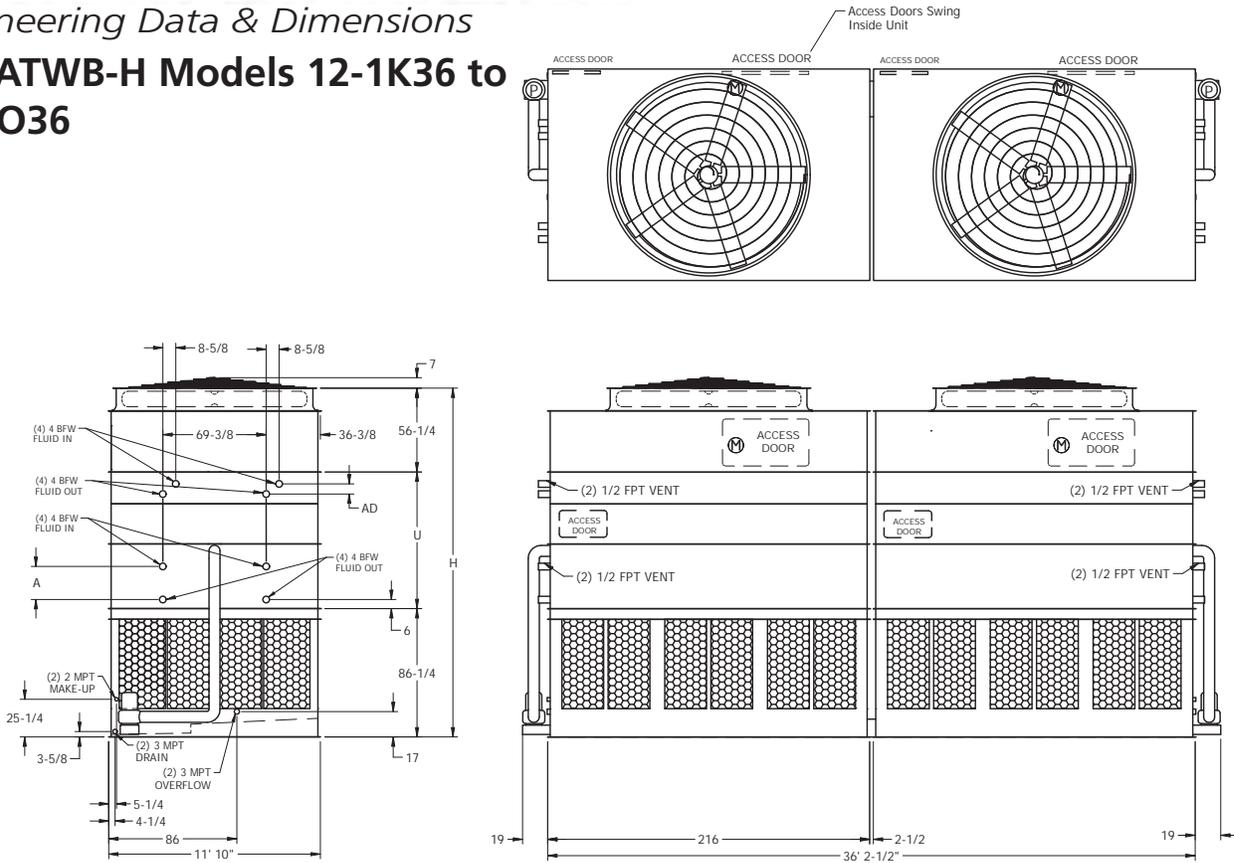
- † Model Numbers end in "-Z" for units with Series Flow piping configuration. Series Flow units may require additional coil connections and will require crossover piping.
- †† Heaviest section is the ARID Fin-Pak™ section and Ellipti-fin® coil sections shipped mounted together.
- \* Gallons shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation (12" would normally be sufficient).
- △ When a remote sump arrangement is selected, the spray pump, suction strainer and associated piping are omitted; the unit is provided with an oversized outlet to facilitate drainage to the remote sump.
- ▲ Unit dimensions and coil connections may vary slightly from catalog. See factory certified prints for dimensions, quantity of coil connections, and piping configuration. Coil connections are 4" bevel for weld (BFW), also available as options. Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Dry Coil Section Adds				
ARID Fin-Pak Coil Rows	Coil Volume (gallons)	Shipping Weight (lbs)	Operating Weight (lbs)	Coil AD (in.)
2	54	(2) 3120	6690	5-1/2"
4	105	(2) 4150	9170	5-1/2"
6	159	(2) 5180	11680	6-7/8"
8	209	(2) 6200	14140	9-1/2"

# eco-ATWB-H

## Engineering Data & Dimensions

### eco-ATWB-H Models 12-1K36 to 12-4O36



**Note:** The below table lists base unit dimensions and weights. See the table at the bottom Right of the Page for dry coil section dimensions and weight adds.  
**Note:** The number of coil connections doubles when the flow rate exceeds 1,800 GPM on eco-ATWB-H 12x36 models. This required option is referred to as the High Flow coil configuration.

eco-ATWB-H Model Number†	Weights (lbs)			Fans		Spray Pump		Wet Coil Volume (Gallons)	Remote Sump $\Delta$			Dimensions (ft./in.)			
	Shipping	Heaviest Section††	Operating	HP	CFM	HP	GPM		Gallons Required	Conn. Size	Operating Weight (lbs)	Height H	Length L	Upper U	Coil A
eco-ATWB-H 12-1K36	30,460	7,640	49,940	(2) 20	228,670	(2) 7.5	2400	333	1440	(2) 12"	38,200	18' 1-5/8"	36' 2-1/2"	6' 3"	5-1/2"
eco-ATWB-H 12-1L36	30,520	7,640	50,000	(2) 25	246,330	(2) 7.5	2400	333	1440	(2) 12"	38,260	18' 1-5/8"	36' 2-1/2"	6' 3"	5-1/2"
eco-ATWB-H 12-1M36	30,620	7,640	50,100	(2) 30	261,760	(2) 7.5	2400	333	1440	(2) 12"	38,360	18' 1-5/8"	36' 2-1/2"	6' 3"	5-1/2"
eco-ATWB-H 12-1N36	30,940	7,640	50,420	(2) 40	284,090	(2) 7.5	2400	333	1440	(2) 12"	38,680	18' 1-5/8"	36' 2-1/2"	6' 3"	5-1/2"
eco-ATWB-H 12-2K36	40,580	12,700	62,520	(2) 20	222,380	(2) 7.5	2400	627	1440	(2) 12"	50,780	18' 9-7/8"	36' 2-1/2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-2L36	40,640	12,700	62,580	(2) 25	239,550	(2) 7.5	2400	627	1440	(2) 12"	50,840	18' 9-7/8"	36' 2-1/2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-2M36	40,740	12,700	62,680	(2) 30	254,560	(2) 7.5	2400	627	1440	(2) 12"	50,940	18' 9-7/8"	36' 2-1/2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-2N36	41,060	12,700	63,000	(2) 40	276,270	(2) 7.5	2400	627	1440	(2) 12"	51,260	18' 9-7/8"	36' 2-1/2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-3K36	50,100	17,460	74,500	(2) 20	216,080	(2) 7.5	2400	922	1440	(2) 12"	62,760	19' 6-3/8"	36' 2-1/2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-3L36	50,160	17,460	74,560	(2) 25	232,770	(2) 7.5	2400	922	1440	(2) 12"	62,820	19' 6-3/8"	36' 2-1/2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-3M36	50,260	17,460	74,660	(2) 30	247,350	(2) 7.5	2400	922	1440	(2) 12"	62,920	19' 6-3/8"	36' 2-1/2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-3N36	50,580	17,460	74,980	(2) 40	268,450	(2) 7.5	2400	922	1440	(2) 12"	63,240	19' 6-3/8"	36' 2-1/2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-4K36	59,600	22,210	86,460	(2) 20	209,790	(2) 7.5	2400	1216	1440	(2) 12"	74,720	20' 2-7/8"	36' 2-1/2"	8' 4-1/4"	30-3/4"
eco-ATWB-H 12-4L36	59,660	22,210	86,520	(2) 25	225,990	(2) 7.5	2400	1216	1440	(2) 12"	74,780	20' 2-7/8"	36' 2-1/2"	8' 4-1/4"	30-3/4"
eco-ATWB-H 12-4M36	59,760	22,210	86,620	(2) 30	240,150	(2) 7.5	2400	1216	1440	(2) 12"	74,880	20' 2-7/8"	36' 2-1/2"	8' 4-1/4"	30-3/4"
eco-ATWB-H 12-4N36	60,080	22,210	86,940	(2) 40	260,630	(2) 7.5	2400	1216	1440	(2) 12"	75,200	20' 2-7/8"	36' 2-1/2"	8' 4-1/4"	30-3/4"
eco-ATWB-H 12-4O36	60,100	22,210	86,960	(2) 50	277,440	(2) 7.5	2400	1216	1440	(2) 12"	75,220	20' 2-7/8"	36' 2-1/2"	8' 4-1/4"	30-3/4"

† Model Numbers end in "Z" for units with Series Flow piping configuration. Series Flow units may require additional coil connections and will require crossover piping.

†† Heaviest section is the ARID *Fin-Pak*™ section and Ellipti-*fin*® coil sections shipped mounted together.

\* Gallons shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation (12" would normally be sufficient).

$\Delta$  When a remote sump arrangement is selected, the spray pump, suction strainer and associated piping are omitted; the unit is provided with an oversized outlet to facilitate drainage to the remote sump.

▲ Unit dimensions and coil connections may vary slightly from catalog. See factory certified prints for dimensions, quantity of coil connections, and piping configuration. Coil connections are 4" bevel for weld (BFW), also available as options. Other connection types such as grooved for mechanical coupling or flanged are also available as options.

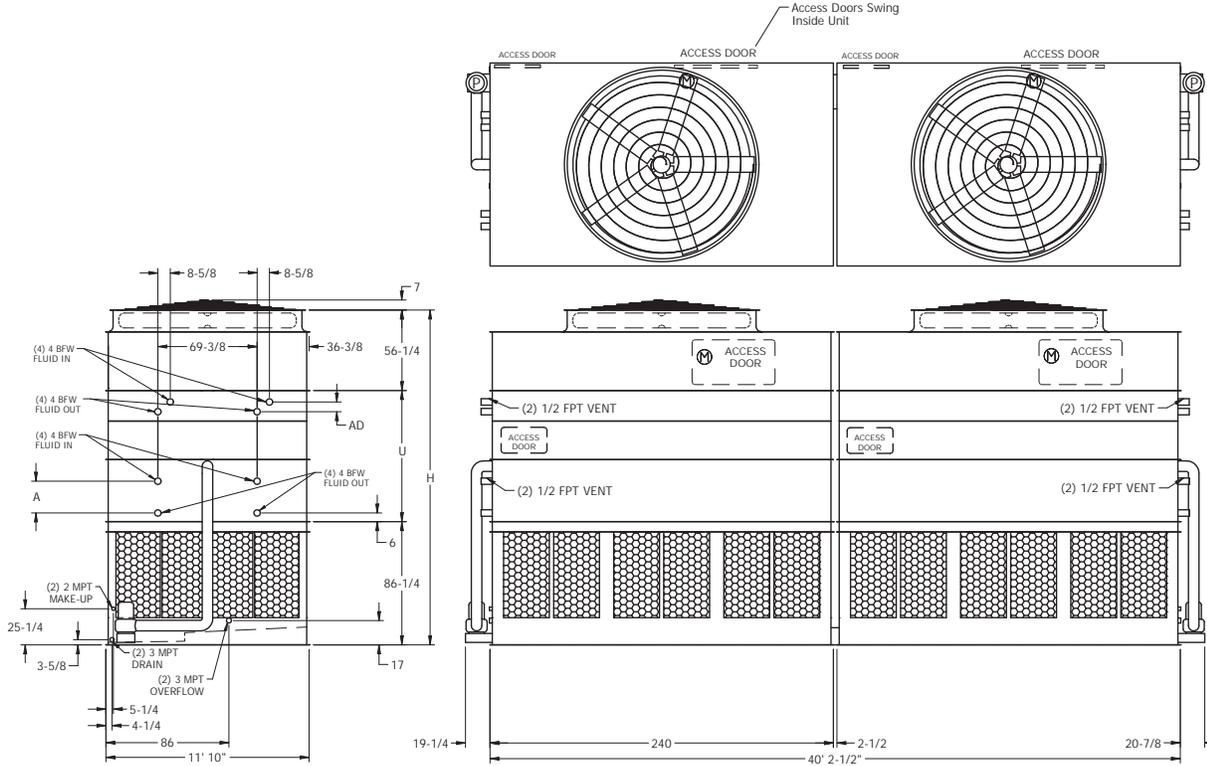
Dry Coil Section Adds				
ARID Fin-Pak Coil Rows	Coil Volume (gallons)	Shipping Weight (lbs)	Operating Weight (lbs)	Coil AD (in.)
2	69	(2) 3730	8020	5-1/2"
4	135	(2) 5050	11230	5-1/2"
6	203	(2) 6380	14450	6-7/8"
8	272	(2) 7720	17700	9-1/2"



# eco-ATWB-H

## Engineering Data & Dimensions

### eco-ATWB-H Models 12-1L40 to 12-4O40



**Note:** The below table lists base unit dimensions and weights. See the table at the bottom Right of the Page for dry coil section dimensions and weight adds.  
**Note:** The number of coil connections doubles when the flow rate exceeds 1,800 GPM on eco-ATWB-H 12x40 models. This required option is referred to as the High Flow coil configuration.

eco-ATWB-H Model Number†	Weights (lbs)			Fans		Spray Pump		Wet Coil Volume (Gallons)	Remote Sump <sup>△</sup>			Dimensions (ft./in.)			
	Shipping	Heaviest Section††	Operating	HP	CFM	HP	GPM		Gallons Required	Conn. Size	Operating Weight (lbs)	Height H	Length L	Upper U	Coil A
eco-ATWB-H 12-1L40	33,480	8,350	55,400	(2) 25	264,260	(2) 10	2800	366	1600	(2) 14"	42,000	18' 1 5/8"	40' 2-1/2"	6' 3"	5-1/2"
eco-ATWB-H 12-1M40	33,580	8,350	55,500	(2) 30	280,820	(2) 10	2800	366	1600	(2) 14"	42,100	18' 1 5/8"	40' 2-1/2"	6' 3"	5-1/2"
eco-ATWB-H 12-1N40	33,900	8,350	55,820	(2) 40	306,500	(2) 10	2800	366	1600	(2) 14"	42,420	18' 1 5/8"	40' 2-1/2"	6' 3"	5-1/2"
eco-ATWB-H 12-1O40	33,920	8,350	55,840	(2) 50	326,260	(2) 10	2800	366	1600	(2) 14"	42,440	18' 1 5/8"	40' 2-1/2"	6' 3"	5-1/2"
eco-ATWB-H 12-2L40	44,560	13,890	69,220	(2) 25	256,990	(2) 10	2800	694	1600	(2) 14"	55,820	18' 9 7/8"	40' 2-1/2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-2M40	44,660	13,890	69,320	(2) 30	273,090	(2) 10	2800	694	1600	(2) 14"	55,920	18' 9 7/8"	40' 2-1/2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-2N40	44,980	13,890	69,640	(2) 40	298,060	(2) 10	2800	694	1600	(2) 14"	56,240	18' 9 7/8"	40' 2-1/2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-2O40	45,000	13,890	69,660	(2) 50	317,280	(2) 10	2800	694	1600	(2) 14"	56,260	18' 9 7/8"	40' 2-1/2"	6' 11-1/4"	13-3/4"
eco-ATWB-H 12-3L40	55,300	19,260	82,680	(2) 25	249,720	(2) 10	2800	1021	1600	(2) 14"	69,280	19' 6 3/8"	40' 2-1/2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-3M40	55,400	19,260	82,780	(2) 30	265,360	(2) 10	2800	1021	1600	(2) 14"	69,380	19' 6 3/8"	40' 2-1/2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-3N40	55,720	19,260	83,100	(2) 40	289,620	(2) 10	2800	1021	1600	(2) 14"	69,700	19' 6 3/8"	40' 2-1/2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-3O40	55,740	19,260	83,120	(2) 50	308,300	(2) 10	2800	1021	1600	(2) 14"	69,720	19' 6 3/8"	40' 2-1/2"	7' 7-3/4"	22-1/4"
eco-ATWB-H 12-4L40	65,780	24,500	95,900	(2) 25	242,440	(2) 10	2800	1349	1600	(2) 14"	82,500	20' 2 7/8"	40' 2-1/2"	8' 4-1/4"	30-3/4"
eco-ATWB-H 12-4M40	65,880	24,500	96,000	(2) 30	257,640	(2) 10	2800	1349	1600	(2) 14"	82,600	20' 2 7/8"	40' 2-1/2"	8' 4-1/4"	30-3/4"
eco-ATWB-H 12-4N40	66,200	24,500	96,320	(2) 40	281,190	(2) 10	2800	1349	1600	(2) 14"	82,920	20' 2 7/8"	40' 2-1/2"	8' 4-1/4"	30-3/4"
eco-ATWB-H 12-4O40	66,220	24,500	96,340	(2) 50	299,320	(2) 10	2800	1349	1600	(2) 14"	82,940	20' 2 7/8"	40' 2-1/2"	8' 4-1/4"	30-3/4"

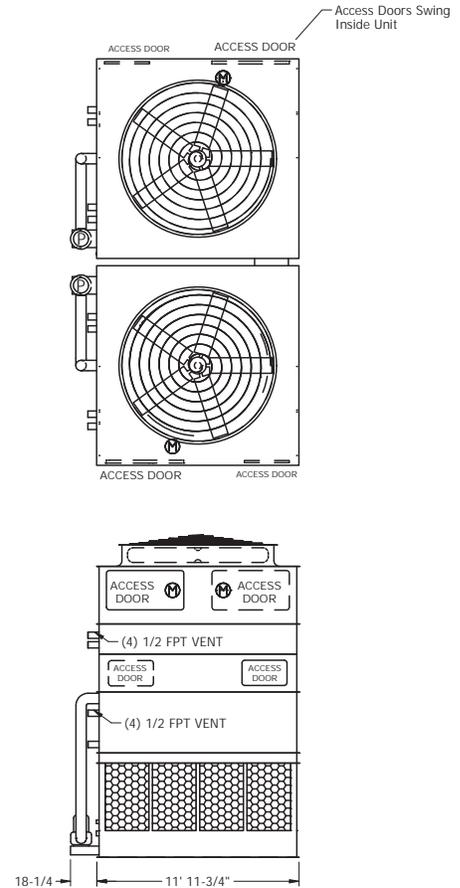
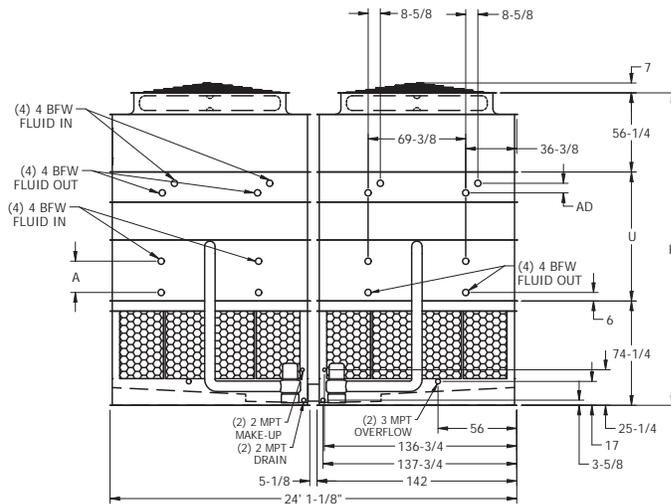
- † Model Numbers end in "-Z" for units with Series Flow piping configuration. Series Flow units may require additional coil connections and will require crossover piping.
- †† Heaviest section is the ARID Fin-Pak™ section and Ellipti-fin® coil sections shipped mounted together.
- \* Gallons shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation (12" would normally be sufficient).
- △ When a remote sump arrangement is selected, the spray pump, suction strainer and associated piping are omitted; the unit is provided with an oversized outlet to facilitate drainage to the remote sump.
- ▲ Unit dimensions and coil connections may vary slightly from catalog. See factory certified prints for dimensions, quantity of coil connections, and piping configuration. Coil connections are 4" bevel for weld (BFW), also available as options. Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Dry Coil Section Adds				
ARID Fin-Pak Coil Rows	Coil Volume (gallons)	Shipping Weight (lbs)	Operating Weight (lbs)	Coil AD (in.)
2	75	(2) 4030	8680	5-1/2"
4	153	(2) 5510	12290	5-1/2"
6	227	(2) 6990	15870	6-7/8"
8	302	(2) 8460	19440	9-1/2"

# eco-ATWB-H

## Engineering Data & Dimensions

### eco-ATWB-H Models 24-1J12 to 24-4N12



**Note:** The below table lists base unit dimensions and weights. See the table at the bottom Right of the Page for dry coil section dimensions and weight adds.  
**Note:** The number of coil connections doubles when the flow rate exceeds 1,800 GPM on eco-ATWB-H 24x12 models. This required option is referred to as the High Flow coil configuration.

eco-ATWB-H Model Number†	Weights (lbs)			Fans		Spray Pump		Wet Coil Volume (Gallons)	Remote Sump <sup>△</sup>			Dimensions (ft./in.)			
	Shipping	Heaviest Section††	Operating	HP	CFM	HP	GPM		Gallons Required	Conn. Size	Operating Weight (lbs)	Height H	Length L	Upper U	Coil A
eco-ATWB-H 24-1J12	21,720	5,320	34,860	(2) 15	153,440	(2) 5	1600	234	980	(2) 12"	26,960	17' 1-5/8"	11' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 24-1K12	21,840	5,320	34,980	(2) 20	168,880	(2) 5	1600	234	980	(2) 12"	27,080	17' 1-5/8"	11' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 24-1L12	21,900	5,320	35,040	(2) 25	179,990	(2) 5	1600	234	980	(2) 12"	27,140	17' 1-5/8"	11' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 24-1M12	22,000	5,320	35,140	(2) 30	189,420	(2) 5	1600	234	980	(2) 12"	27,240	17' 1-5/8"	11' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 24-2J12	28,380	8,650	43,140	(2) 15	149,220	(2) 5	1600	428	980	(2) 12"	35,240	17' 9-7/8"	11' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 24-2K12	28,500	8,650	43,260	(2) 20	164,240	(2) 5	1600	428	980	(2) 12"	35,360	17' 9-7/8"	11' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 24-2L12	28,560	8,650	43,320	(2) 25	175,030	(2) 5	1600	428	980	(2) 12"	35,420	17' 9-7/8"	11' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 24-2M12	28,660	8,650	43,420	(2) 30	184,200	(2) 5	1600	428	980	(2) 12"	35,520	17' 9-7/8"	11' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 24-3J12	34,760	11,840	51,140	(2) 15	145,000	(2) 5	1600	623	980	(2) 12"	43,240	18' 6-3/8"	11' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 24-3K12	34,880	11,840	51,260	(2) 20	159,590	(2) 5	1600	623	980	(2) 12"	43,360	18' 6-3/8"	11' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 24-3L12	34,940	11,840	51,320	(2) 25	170,080	(2) 5	1600	623	980	(2) 12"	43,420	18' 6-3/8"	11' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 24-3M12	35,040	11,840	51,420	(2) 30	178,990	(2) 5	1600	623	980	(2) 12"	43,520	18' 6-3/8"	11' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 24-4K12	41,260	15,030	59,280	(2) 20	154,940	(2) 5	1600	818	980	(2) 12"	51,380	19' 2-7/8"	11' 11-3/4"	8' 4-1/4"	30-3/4"
eco-ATWB-H 24-4L12	41,320	15,030	59,340	(2) 25	165,130	(2) 5	1600	818	980	(2) 12"	51,440	19' 2-7/8"	11' 11-3/4"	8' 4-1/4"	30-3/4"
eco-ATWB-H 24-4M12	41,420	15,030	59,440	(2) 30	173,780	(2) 5	1600	818	980	(2) 12"	51,540	19' 2-7/8"	11' 11-3/4"	8' 4-1/4"	30-3/4"
eco-ATWB-H 24-4N12	41,740	15,030	59,760	(2) 40	188,350	(2) 5	1600	818	980	(2) 12"	51,860	19' 2-7/8"	11' 11-3/4"	8' 4-1/4"	30-3/4"

- † Model Numbers end in "-Z" for units with Series Flow piping configuration. Series Flow units may require additional coil connections and will require crossover piping.
- †† Heaviest section is the ARID *Fin-Pak*™ section and Ellipti-*fin*® coil sections shipped mounted together.
- \* Gallons shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation (12" would normally be sufficient).
- △ When a remote sump arrangement is selected, the spray pump, suction strainer and associated piping are omitted; the unit is provided with an oversized outlet to facilitate drainage to the remote sump.
- ▲ Unit dimensions and coil connections may vary slightly from catalog. See factory certified prints for dimensions, quantity of coil connections, and piping configuration. Coil connections are 4" bevel for weld (BFW), also available as options. Other connection types such as grooved for mechanical coupling or flanged are also available as options.

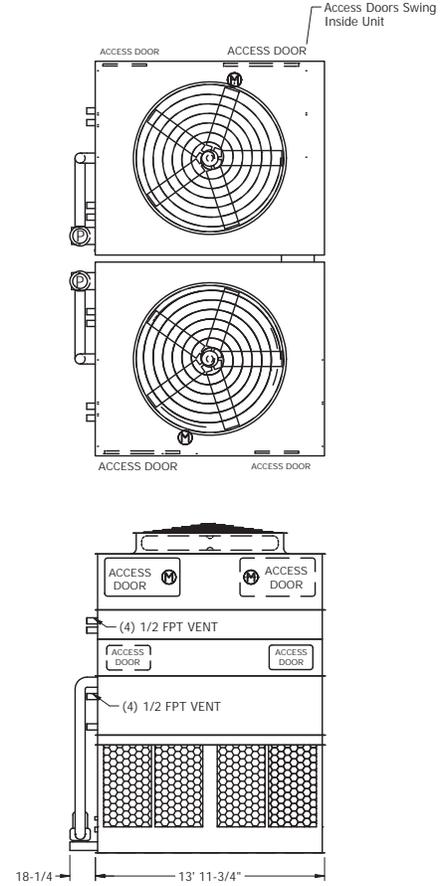
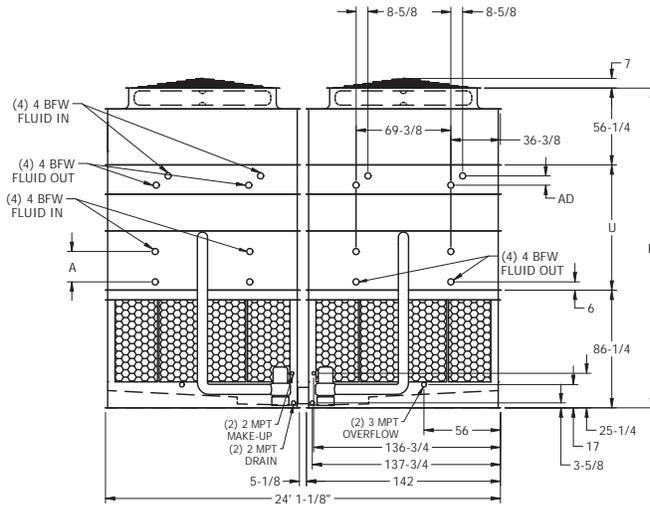
Dry Coil Section Adds				
ARID Fin-Pak Coil Rows	Coil Volume (gallons)	Shipping Weight (lbs)	Operating Weight (lbs)	Coil AD (in.)
2	45	(2) 2820	6010	5-1/2"
4	90	(2) 3700	8140	5-1/2"
6	135	(2) 4570	10260	6-7/8"
8	180	(2) 5440	12380	9-1/2"



# eco-ATWB-H

## Engineering Data & Dimensions

### eco-ATWB-H Models 24-1K14 to 24-4N14



**Note:** The below table lists base unit dimensions and weights. See the table at the bottom Right of the Page for dry coil section dimensions and weight adds.  
**Note:** The number of coil connections doubles when the flow rate exceeds 1,800 GPM on eco-ATWB-H 24x14 models. This required option is referred to as the High Flow coil configuration.

eco-ATWB-H Model Number†	Weights (lbs)			Fans		Spray Pump		Wet Coil Volume (Gallons)	Remote Sump <sup>△</sup>			Dimensions (ft./in.)			
	Shipping	Heaviest Section††	Operating	HP	CFM	HP	GPM		Gallons Required	Conn. Size	Operating Weight (lbs)	Height H	Length L	Upper U	Coil A
eco-ATWB-H 24-1K14	24,460	6,050	39,900	(2) 20	187,210	(2) 5	1800	267	1140	(2) 12"	30,760	18' 1-5/8"	13' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 24-1L14	24,520	6,050	39,960	(2) 25	201,170	(2) 5	1800	267	1140	(2) 12"	30,820	18' 1-5/8"	13' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 24-1M14	24,620	6,050	40,060	(2) 30	211,700	(2) 5	1800	267	1140	(2) 12"	30,920	18' 1-5/8"	13' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 24-1N14	24,940	6,050	40,380	(2) 40	229,460	(2) 5	1800	267	1140	(2) 12"	31,240	18' 1-5/8"	13' 11-3/4"	6' 3"	5-1/2"
eco-ATWB-H 24-2K14	32,040	9,840	49,380	(2) 20	182,050	(2) 5	1800	495	1140	(2) 12"	40,240	18' 9-7/8"	13' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 24-2L14	32,100	9,840	49,440	(2) 25	195,630	(2) 5	1800	495	1140	(2) 12"	40,300	18' 9-7/8"	13' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 24-2M14	32,200	9,840	49,540	(2) 30	205,880	(2) 5	1800	495	1140	(2) 12"	40,400	18' 9-7/8"	13' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 24-2N14	32,520	9,840	49,860	(2) 40	223,140	(2) 5	1800	495	1140	(2) 12"	40,720	18' 9-7/8"	13' 11-3/4"	6' 11-1/4"	13-3/4"
eco-ATWB-H 24-3K14	39,640	13,640	58,880	(2) 20	176,900	(2) 5	1800	723	1140	(2) 12"	49,740	19' 6-3/8"	13' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 24-3L14	39,700	13,640	58,940	(2) 25	190,090	(2) 5	1800	723	1140	(2) 12"	49,800	19' 6-3/8"	13' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 24-3M14	39,800	13,640	59,040	(2) 30	200,050	(2) 5	1800	723	1140	(2) 12"	49,900	19' 6-3/8"	13' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 24-3N14	40,120	13,640	59,360	(2) 40	216,830	(2) 5	1800	723	1140	(2) 12"	50,220	19' 6-3/8"	13' 11-3/4"	7' 7-3/4"	22-1/4"
eco-ATWB-H 24-4K14	47,080	17,360	68,220	(2) 20	171,750	(2) 5	1800	951	1140	(2) 12"	59,080	20' 2-7/8"	13' 11-3/4"	8' 4-1/4"	30-3/4"
eco-ATWB-H 24-4L14	47,140	17,360	68,280	(2) 25	184,560	(2) 5	1800	951	1140	(2) 12"	59,140	20' 2-7/8"	13' 11-3/4"	8' 4-1/4"	30-3/4"
eco-ATWB-H 24-4M14	47,240	17,360	68,380	(2) 30	194,220	(2) 5	1800	951	1140	(2) 12"	59,240	20' 2-7/8"	13' 11-3/4"	8' 4-1/4"	30-3/4"
eco-ATWB-H 24-4N14	47,560	17,360	68,700	(2) 40	210,510	(2) 5	1800	951	1140	(2) 12"	59,560	20' 2-7/8"	13' 11-3/4"	8' 4-1/4"	30-3/4"

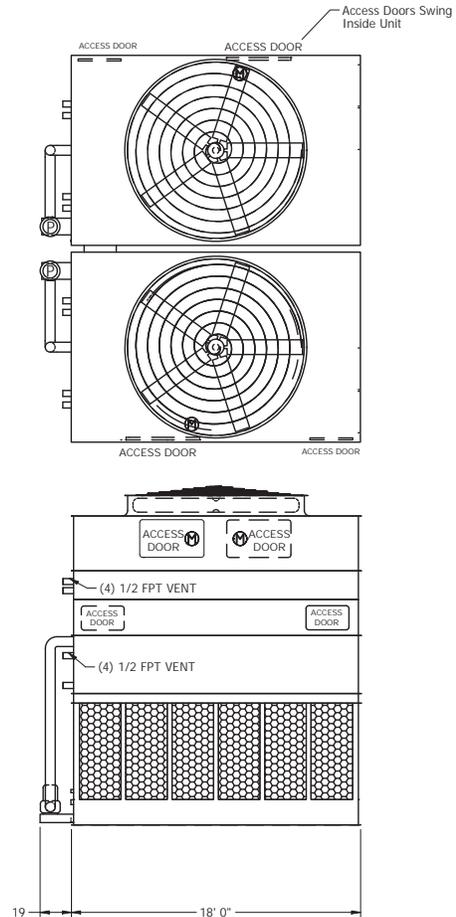
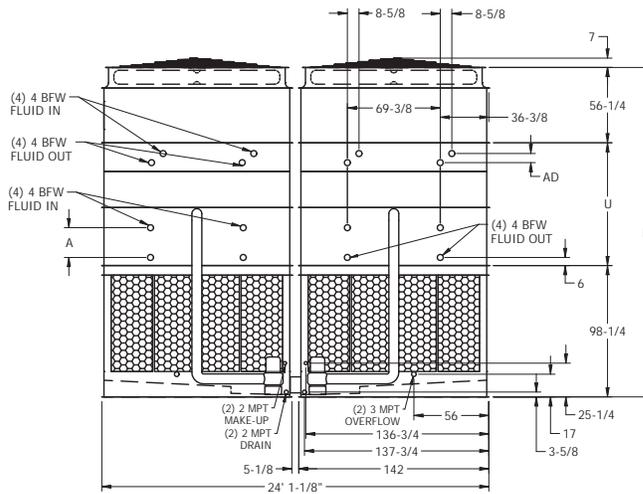
- † Model Numbers end in "-Z" for units with Series Flow piping configuration. Series Flow units may require additional coil connections and will require crossover piping.
- †† Heaviest section is the ARID Fin-Pak™ section and Ellipti-fin® coil sections shipped mounted together.
- \* Gallons shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation (12" would normally be sufficient).
- △ When a remote sump arrangement is selected, the spray pump, suction strainer and associated piping are omitted; the unit is provided with an oversized outlet to facilitate drainage to the remote sump.
- ▲ Unit dimensions and coil connections may vary slightly from catalog. See factory certified prints for dimensions, quantity of coil connections, and piping configuration. Coil connections are 4" bevel for weld (BFW), also available as options. Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Dry Coil Section Adds				
ARID Fin-Pak Coil Rows	Coil Volume (gallons)	Shipping Weight (lbs)	Operating Weight (lbs)	Coil AD (in.)
2	54	(2) 3120	6690	5-1/2"
4	105	(2) 4150	9170	5-1/2"
6	159	(2) 5180	11680	6-7/8"
8	209	(2) 6200	14140	9-1/2"

# eco-ATWB-H

## Engineering Data & Dimensions

### eco-ATWB-H Models 24-1K18 to 24-4O18



**Note:** The below table lists base unit dimensions and weights. See the table at the bottom Right of the Page for dry coil section dimensions and weight adds.  
**Note:** The number of coil connections doubles when the flow rate exceeds 1,800 GPM on eco-ATWB-H 24x18 models. This required option is referred to as the High Flow coil configuration.

eco-ATWB-H Model Number†	Weights (lbs)			Fans		Spray Pump		Wet Coil Volume (Gallons)	Remote Sump △			Dimensions (ft./in.)			
	Shipping	Heaviest Section††	Operating	HP	CFM	HP	GPM		Gallons Required	Conn. Size	Operating Weight (lbs)	Height H	Length L	Upper U	Coil A
eco-ATWB-H 24-1K18	30,540	7,680	50,020	(2) 20	228,670	(2) 7.5	2400	333	1440	(2) 12"	38,280	19' 1-5/8"	18' 0"	6' 3"	5-1/2"
eco-ATWB-H 24-1L18	30,600	7,680	50,080	(2) 25	246,330	(2) 7.5	2400	333	1440	(2) 12"	38,340	19' 1-5/8"	18' 0"	6' 3"	5-1/2"
eco-ATWB-H 24-1M18	30,700	7,680	50,180	(2) 30	261,760	(2) 7.5	2400	333	1440	(2) 12"	38,440	19' 1-5/8"	18' 0"	6' 3"	5-1/2"
eco-ATWB-H 24-1N18	31,020	7,680	50,500	(2) 40	284,090	(2) 7.5	2400	333	1440	(2) 12"	38,760	19' 1-5/8"	18' 0"	6' 3"	5-1/2"
eco-ATWB-H 24-2K18	40,640	12,730	62,580	(2) 20	222,380	(2) 7.5	2400	627	1440	(2) 12"	50,840	19' 9-7/8"	18' 0"	6' 11-1/4"	13-3/4"
eco-ATWB-H 24-2L18	40,700	12,730	62,640	(2) 25	239,550	(2) 7.5	2400	627	1440	(2) 12"	50,900	19' 9-7/8"	18' 0"	6' 11-1/4"	13-3/4"
eco-ATWB-H 24-2M18	40,800	12,730	62,740	(2) 30	254,560	(2) 7.5	2400	627	1440	(2) 12"	51,000	19' 9-7/8"	18' 0"	6' 11-1/4"	13-3/4"
eco-ATWB-H 24-2N18	41,120	12,730	63,060	(2) 40	276,270	(2) 7.5	2400	627	1440	(2) 12"	51,320	19' 9-7/8"	18' 0"	6' 11-1/4"	13-3/4"
eco-ATWB-H 24-3K18	50,100	17,460	74,500	(2) 20	216,080	(2) 7.5	2400	922	1440	(2) 12"	62,760	20' 6-3/8"	18' 0"	7' 7-3/4"	22-1/4"
eco-ATWB-H 24-3L18	50,160	17,460	74,560	(2) 25	232,770	(2) 7.5	2400	922	1440	(2) 12"	62,820	20' 6-3/8"	18' 0"	7' 7-3/4"	22-1/4"
eco-ATWB-H 24-3M18	50,260	17,460	74,660	(2) 30	247,350	(2) 7.5	2400	922	1440	(2) 12"	62,920	20' 6-3/8"	18' 0"	7' 7-3/4"	22-1/4"
eco-ATWB-H 24-3N18	50,580	17,460	74,980	(2) 40	268,450	(2) 7.5	2400	922	1440	(2) 12"	63,240	20' 6-3/8"	18' 0"	7' 7-3/4"	22-1/4"
eco-ATWB-H 24-4K18	59,600	22,210	86,460	(2) 20	209,790	(2) 7.5	2400	1216	1440	(2) 12"	74,720	21' 2-7/8"	18' 0"	8' 4-1/4"	30-3/4"
eco-ATWB-H 24-4L18	59,660	22,210	86,520	(2) 25	225,990	(2) 7.5	2400	1216	1440	(2) 12"	74,780	21' 2-7/8"	18' 0"	8' 4-1/4"	30-3/4"
eco-ATWB-H 24-4M18	59,760	22,210	86,620	(2) 30	240,150	(2) 7.5	2400	1216	1440	(2) 12"	74,880	21' 2-7/8"	18' 0"	8' 4-1/4"	30-3/4"
eco-ATWB-H 24-4N18	60,080	22,210	86,940	(2) 40	260,630	(2) 7.5	2400	1216	1440	(2) 12"	75,200	21' 2-7/8"	18' 0"	8' 4-1/4"	30-3/4"
eco-ATWB-H 24-4O18	60,100	22,210	86,960	(2) 50	277,440	(2) 7.5	2400	1216	1440	(2) 12"	75,220	21' 2-7/8"	18' 0"	8' 4-1/4"	30-3/4"

† Model Numbers end in "-Z" for units with Series Flow piping configuration. Series Flow units may require additional coil connections and will require crossover piping.

†† Heaviest section is the ARID Fin-Pak™ section and Ellipti-fin® coil sections shipped mounted together.

\* Gallons shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation (12" would normally be sufficient).

△ When a remote sump arrangement is selected, the spray pump, suction strainer and associated piping are omitted; the unit is provided with an oversized outlet to facilitate drainage to the remote sump.

▲ Unit dimensions and coil connections may vary slightly from catalog. See factory certified prints for dimensions, quantity of coil connections, and piping configuration. Coil connections are 4" bevel for weld (BFW), also available as options. Other connection types such as grooved for mechanical coupling or flanged are also available as options.

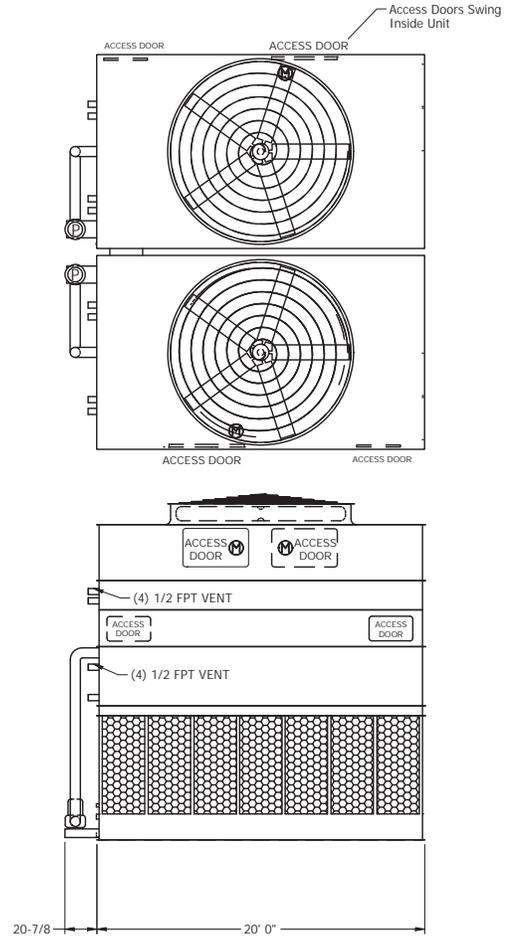
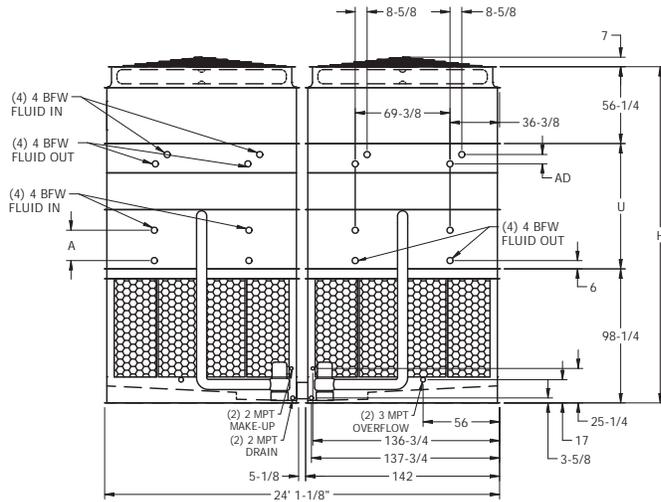
Dry Coil Section Adds				
ARID Fin-Pak Coil Rows	Coil Volume (gallons)	Shipping Weight (lbs)	Operating Weight (lbs)	Coil AD (in.)
2	69	(2) 3730	8020	5-1/2"
4	135	(2) 5050	11230	5-1/2"
6	203	(2) 6380	14450	6-7/8"
8	272	(2) 7720	17700	9-1/2"



# eco-ATWB-H

## Engineering Data & Dimensions

### eco-ATWB-H Models 24-1L20 to 24-4O20



**Note:** The below table lists base unit dimensions and weights. See the table at the bottom Right of the Page for dry coil section dimensions and weight adds.  
**Note:** The number of coil connections doubles when the flow rate exceeds 1,800 GPM on eco-ATWB-H 24x20 models. This required option is referred to as the High Flow coil configuration.

eco-ATWB-H Model Number†	Weights (lbs)			Fans		Spray Pump		Wet Coil Volume (Gallons)	Remote Sump <sup>△</sup>			Dimensions (ft./in.)			
	Shipping	Heaviest Section††	Operating	HP	CFM	HP	GPM		Gallons Required	Conn. Size	Operating Weight (lbs)	Height H	Length L	Upper U	Coil A
eco-ATWB-H 24-1L20	33,600	8,410	55,520	(2) 25	264,260	(2) 10	2800	366	1600	(2) 14"	42,120	19' 1-5/8"	20' 0"	6' 3"	5-1/2"
eco-ATWB-H 24-1M20	33,700	8,410	55,620	(2) 30	280,820	(2) 10	2800	366	1600	(2) 14"	42,220	19' 1-5/8"	20' 0"	6' 3"	5-1/2"
eco-ATWB-H 24-1N20	34,020	8,410	55,940	(2) 40	306,500	(2) 10	2800	366	1600	(2) 14"	42,540	19' 1-5/8"	20' 0"	6' 3"	5-1/2"
eco-ATWB-H 24-1O20	34,040	8,410	55,960	(2) 50	326,260	(2) 10	2800	366	1600	(2) 14"	42,560	19' 1-5/8"	20' 0"	6' 3"	5-1/2"
eco-ATWB-H 24-2L20	44,620	13,920	69,280	(2) 25	256,990	(2) 10	2800	694	1600	(2) 14"	55,880	19' 9-7/8"	20' 0"	6' 11-1/4"	13-3/4"
eco-ATWB-H 24-2M20	44,720	13,920	69,380	(2) 30	273,090	(2) 10	2800	694	1600	(2) 14"	55,980	19' 9-7/8"	20' 0"	6' 11-1/4"	13-3/4"
eco-ATWB-H 24-2N20	45,040	13,920	69,700	(2) 40	298,060	(2) 10	2800	694	1600	(2) 14"	56,300	19' 9-7/8"	20' 0"	6' 11-1/4"	13-3/4"
eco-ATWB-H 24-2O20	45,060	13,920	69,720	(2) 50	317,280	(2) 10	2800	694	1600	(2) 14"	56,320	19' 9-7/8"	20' 0"	6' 11-1/4"	13-3/4"
eco-ATWB-H 24-3L20	55,300	19,260	82,680	(2) 25	249,720	(2) 10	2800	1021	1600	(2) 14"	69,280	20' 6-3/8"	20' 0"	7' 7-3/4"	22-1/4"
eco-ATWB-H 24-3M20	55,400	19,260	82,780	(2) 30	265,360	(2) 10	2800	1021	1600	(2) 14"	69,380	20' 6-3/8"	20' 0"	7' 7-3/4"	22-1/4"
eco-ATWB-H 24-3N20	55,720	19,260	83,100	(2) 40	289,620	(2) 10	2800	1021	1600	(2) 14"	69,700	20' 6-3/8"	20' 0"	7' 7-3/4"	22-1/4"
eco-ATWB-H 24-3O20	55,740	19,260	83,120	(2) 50	308,300	(2) 10	2800	1021	1600	(2) 14"	69,720	20' 6-3/8"	20' 0"	7' 7-3/4"	22-1/4"
eco-ATWB-H 24-4L20	65,780	24,500	95,900	(2) 25	242,440	(2) 10	2800	1349	1600	(2) 14"	82,500	21' 2-7/8"	20' 0"	8' 4-1/4"	30-3/4"
eco-ATWB-H 24-4M20	65,880	24,500	96,000	(2) 30	257,640	(2) 10	2800	1349	1600	(2) 14"	82,600	21' 2-7/8"	20' 0"	8' 4-1/4"	30-3/4"
eco-ATWB-H 24-4N20	66,200	24,500	96,320	(2) 40	281,190	(2) 10	2800	1349	1600	(2) 14"	82,920	21' 2-7/8"	20' 0"	8' 4-1/4"	30-3/4"
eco-ATWB-H 24-4O20	66,220	24,500	96,340	(2) 50	299,320	(2) 10	2800	1349	1600	(2) 14"	82,940	21' 2-7/8"	20' 0"	8' 4-1/4"	30-3/4"

- † Model Numbers end in "-Z" for units with Series Flow piping configuration. Series Flow units may require additional coil connections and will require crossover piping.
- †† Heaviest section is the ARID Fin-Pak™ section and Ellipti-fin® coil sections shipped mounted together.
- \* Gallons shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation (12" would normally be sufficient).
- △ When a remote sump arrangement is selected, the spray pump, suction strainer and associated piping are omitted; the unit is provided with an oversized outlet to facilitate drainage to the remote sump.
- ▲ Unit dimensions and coil connections may vary slightly from catalog. See factory certified prints for dimensions, quantity of coil connections, and piping configuration. Coil connections are 4" bevel for weld (BFW), also available as options. Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Dry Coil Section Adds				
ARID Fin-Pak Coil Rows	Coil Volume (gallons)	Shipping Weight (lbs)	Operating Weight (lbs)	Coil AD (in.)
2	75	(2) 4030	8680	5-1/2"
4	153	(2) 5510	12290	5-1/2"
6	227	(2) 6990	15870	6-7/8"
8	302	(2) 8460	19440	9-1/2"

# STEEL SUPPORT **eco-Hybrid**

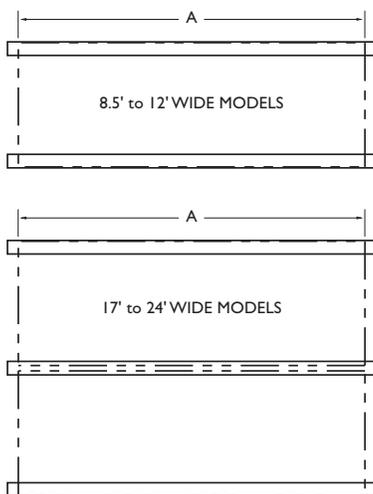
## Recommended Steel Support

The recommended support for EVAPCO Closed Circuit Coolers is structural "I" beams located under the outer flanges and running the entire length of the unit. The unit should be elevated to allow access underneath the unit and to the roof below. Mounting holes, 3/4" in diameter are located in the bottom flanges of the pan section to provide for bolting to the structural steel. (Refer to certified drawings from the factory for bolt hole locations.)

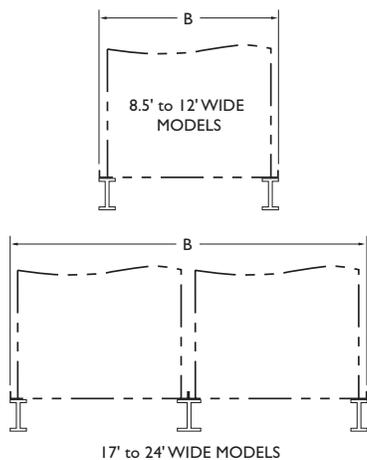
Beams should be level before setting the unit in place. Do not level the unit by shimming between the unit and the structural steel. Dimensions, weights, and data are subject to change without notice. Refer to the factory certified drawings for exact dimensions.

NOTE: Consult IBC 2009 for required steel support layout and structural design.

**Plan Views**



**End Elevations**



**eco-ATWB-H SUPPORTING STEEL DIMENSIONS**

8-1/2' Wide Models	A	B
eco-ATWB-H 9x9	8' 11-1/2"	8' 5-1/2"
eco-ATWB-H 9x12	11' 11-3/4"	8' 5-1/2"
eco-ATWB-H 9x14	13' 11-3/4"	8' 5-1/2"
eco-ATWB-H 9x18	18' 0"	8' 5-1/2"
eco-ATWB-H 9x21	21' 0"	8' 5-1/2"
10' Wide Models	A	B
eco-ATWB-H 10x12	11' 11-3/4"	9' 9-3/4"
eco-ATWB-H 10x18	18' 0"	9' 9-3/4"
eco-ATWB-H 10x24	24' 2"	9' 9-3/4"
eco-ATWB-H 10x36	36' 2-1/2"	9' 9-3/4"
12' Wide Models	A	B
eco-ATWB-H 12x12	11' 11-3/4"	11' 10"
eco-ATWB-H 12x14	13' 11-3/4"	11' 10"
eco-ATWB-H 12x18	18' 0"	11' 10"
eco-ATWB-H 12x20	20' 0"	11' 10"
eco-ATWB-H 12x24	24' 2"	11' 10"
eco-ATWB-H 12x28	28' 2"	11' 10"
eco-ATWB-H 12x36	36' 2-1/2"	11' 10"
eco-ATWB-H 12x40	40' 2-1/2"	11' 10"
17' Wide Models	A	B
eco-ATWB-H 17x12	11' 11-3/4"	17' 1-1/2"
eco-ATWB-H 17x14	13' 11-3/4"	17' 1-1/2"
20' Wide Models	A	B
eco-ATWB-H 20x12	11' 11-3/4"	20' 5/8"
eco-ATWB-H 20x18	18' 0"	20' 5/8"
24' Wide Models	A	B
eco-ATWB-H 24x12	11' 11-3/4"	24' 1-1/8"
eco-ATWB-H 24x14	13' 11-3/4"	24' 1-1/8"
eco-ATWB-H 24x18	18' 0"	24' 1-1/8"
eco-ATWB-H 24x20	20' 0"	24' 1-1/8"

## Design

EVAPCO units are of heavy-duty construction and designed for long trouble-free operation. Proper equipment selection, installation and maintenance is, however, necessary to ensure full unit performance. Some of the major considerations in the application of a cooler are presented below. For additional information, contact the factory.

## Air Circulation

It is important that proper air circulation be provided. The best location is on an unobstructed roof top or on ground level away from walls and other barriers. Those closed circuit coolers located in wells, enclosures or adjacent to high walls must be properly located to avoid the problems associated with recirculation.

Recirculation raises the wet bulb temperature of the entering air causing the water temperature to rise above the design. For these cases, the discharge of the fan should be located at a height even with the adjacent wall, thereby reducing the chance of recirculation. For additional information, see the EVAPCO Equipment Layout Manual.

Good engineering practice dictates that the closed circuit cooler discharge air not be directed or located close to or in the vicinity of building air intakes.

## Piping

Cooler piping should be designed and installed in accordance with generally accepted engineering practices. The piping layout should be symmetrical on multiple unit systems, and sized for a reasonably low water velocity and pressure drop.

The standard closed circuit cooler is recommended only on a closed, pressurized system. The piping system should include an expansion tank to allow for fluid expansion and purging air from the system.

**Note: Closed Circuit Coolers should never be used on an open type system. An open type system with a cooler may result in premature coil failure.**

The piping system should be designed to permit complete drainage of the heat exchanger coil. This will require a vacuum breaker or air vent to be installed at the high point and a drain valve installed at the low point of the piping system. Both must be adequately sized.

All piping should be securely anchored by properly designed hangers and supports. No external loads should be placed upon the cooler connections, nor should any of the pipe supports be anchored to the cooler framework.

## Recirculating Water Quality

Proper water treatment is an essential part of the maintenance required for evaporative cooling equipment. A well designed and consistently implemented water treatment program will help to ensure efficient system operation while maximizing the equipment's service life. A qualified water treatment company should design a site specific water treatment protocol based on equipment (including all metallurgies in the cooling system), location, makeup water quality, and usage.

## Bleed off

Evaporative cooling equipment requires a bleed or blowdown line, located on the discharge side of the recirculating pump, to remove concentrated (cycled up) water from the system. Evapco recommends an automated conductivity controller to maximize

the water efficiency of your system. Based on recommendations from your water treatment company, the conductivity controller should open and close a motorized ball or solenoid valve to maintain the conductivity of the recirculating water. If a manual valve is used to control the rate of bleed it should be set to maintain the conductivity of the recirculating water during periods of peak load at the maximum level recommended by your water treatment company.

## Water Treatment

The water treatment program prescribed for the given conditions must be compatible with the unit's materials of construction, including any galvanized components. The initial commissioning and passivation period is a critical time for maximizing the service life of galvanized equipment. Evapco recommends that the site specific water treatment protocol includes a passivation procedure which details water chemistry, any necessary chemical addition, and visual inspections during the first six (6) to twelve (12) weeks of operation. During this passivation period, recirculating water pH should be maintained above 7.0 and below 8.0 at all times. Batch feeding of chemicals is not recommended.

## Control of Biological Contaminants

Evaporative cooling equipment should be inspected regularly to ensure good microbiological control. Inspections should include both monitoring of microbial populations via culturing techniques and visual inspections for evidence of biofouling.

Poor microbiological control can result in loss of heat transfer efficiency, increase corrosion potential, and increase the risk of pathogens such as those that cause Legionnaires' disease. Your site specific water treatment protocol should include procedures for routine operation, startup after a shut-down period, and system lay-up, if applicable. If excessive microbiological contamination is detected, a more aggressive mechanical cleaning and/or water treatment program should be undertaken.

## Freeze Protection

If the units are installed in a cold climate and operated year-round, freeze protection must be provided for the heat exchanger coil in the unit as well as for the recirculating water system.

## Recirculating Water System

The surest way to protect the recirculating water system from freezing is with a remote sump. The remote sump should be located inside the building and below the unit. When a remote sump arrangement is selected, the spray pump is provided by others and installed at the remote sump. All water in the closed circuit cooler basin should drain to the remote sump when the spray pump cycles off.

Other freeze protection methods are available when a remote sump is not feasible. Electric pan heaters or steam or hot water coils can be used to keep the pan water from freezing when the unit cycles off. Water lines to and from the unit, spray pump and related piping should be heat traced and insulated up to the overflow level in order to protect from freezing.

The unit should not be operated dry (fans on, pump off) unless the basin is completely drained and the unit has been designed for dry operation. Consult the factory when dry operation is a requirement.

# APPLICATIONS **eco-Hybrid**

## Heat Exchanger Coil

The simplest and most foolproof method of protecting the heat exchanger coil from freeze-up is to use a glycol solution. If this is not possible, an auxiliary heat load must be maintained on the coil at all times so that the water temperature does not drop below 50°F when the cooler is shut down. Also, a minimum recommended flow rate per unit must be maintained. Refer to Heat Loss Data Table on page 55 for heat loss data.

Minimum Flows	Standard Flow GPM	Series Flow GPM
<b>8-1/2' Wide Models</b>		
eco-ATWB-H 9x9 to 9x21	160	80
<b>10' Wide Models</b>		
eco-ATWB-H 10x12 to 10x18	188	94
eco-ATWB-H 10x24 to 10x36	376	188
<b>12' Wide Models</b>		
eco-ATWB-H 12x12 to 12x20	232	116
eco-ATWB-H 12x24 to 12x40	464	232
<b>17' Wide Models</b>		
eco-ATWB-H 17x12 to 17x14	320	160
<b>20' Wide Models</b>		
eco-ATWB-H 20x12 to 20x18	376	188
<b>24' Wide Models</b>		
eco-ATWB-H 24x12 to 24x20	464	232

## Discharge Hoods with Positive Closure Dampers

When a closed circuit cooler is used in a water-to-air heat pump system or in certain process cooling applications, a method of reducing the heat loss during idle periods of wintertime operation may be required. For these cases, an optional discharge hood with positive closure dampers and damper actuator is available.

The discharge hood with dampers is designed to minimize the heat loss from convective airflow through an idle cooler. Further reductions in heat loss may be obtained with the addition of insulation to the hood and casing, minimizing conductive heat losses. Insulation may be factory installed on the hood and casing or field installed by an insulation contractor.

The discharge hood and dampers are constructed of hot-dip galvanized steel. Hoods are equipped with access panels to facilitate maintenance of the eliminators and water distribution system. The dampers, damper actuator and linkage are all factory assembled. Actuator controls and wiring are field supplied by others. Damper actuators require 120 volt power supply.

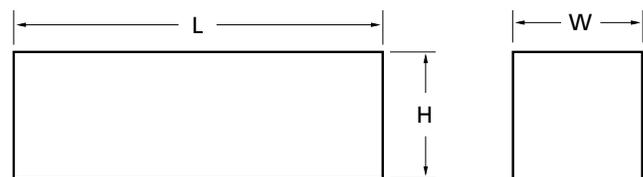
The system control sequence should allow for dampers to be fully open before the fans are running and closed when the fans are off; the damper actuator must be interlocked with the temperature control system for this purpose.

Heat loss data is provided for standard units without hoods, with hoods and with hoods and insulation. Table ratings are based on 50°F water in the coil, -10°F ambient and 45 MPH winds (fan and pump off). Refer to page 55.

## Discharge Hood Dimensions

Model	L	H*	W	Weight	Number of Hoods
eco-ATWB-H 9x9	8' 11-3/8"	1' 4"	8' 5-1/2"	980	1
eco-ATWB-H 9x12	10' 5-1/2"	1' 4"	8' 5-1/2"	1,140	1
eco-ATWB-H 9x14					
eco-ATWB-H 9x18	8' 11-1/2"	1' 4"	8' 5-1/2"	1,960	2
eco-ATWB-H 9x21	10' 5-1/2"	1' 4"	8' 5-1/2"	2,280	2
eco-ATWB-H 17x12	10' 5-1/2"	1' 4"	8' 5-1/2"	2,120	2
eco-ATWB-H 17x14					
eco-ATWB-H 10x12	11' 11-5/8"	1' 2"	10' 2-1/4"	1,730	1
eco-ATWB-H 10x18					
eco-ATWB-H 10x24	11' 11-5/8"	1' 2"	10' 2-1/4"	3,460	2
eco-ATWB-H 10x36					
eco-ATWB-H 20x12					
eco-ATWB-H 20x18					
eco-ATWB-H 12x12	11' 11-3/4"	1' 2"	11' 10"	1,800	1
eco-ATWB-H 12x14					
eco-ATWB-H 12x18					
eco-ATWB-H 12x20					
eco-ATWB-H 12x24	11' 11-3/4"	1' 2"	11' 10"	3,600	2
eco-ATWB-H 12x28					
eco-ATWB-H 12x36					
eco-ATWB-H 12x40					
eco-ATWB-H 24x12	11' 11-3/4"	1' 2"	11' 10"	3,600	2
eco-ATWB-H 24x14					
eco-ATWB-H 24x18					
eco-ATWB-H 24x20					

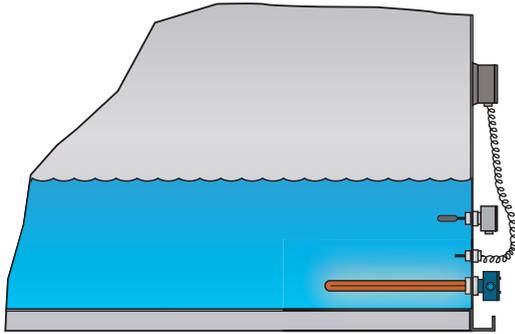
\*Overall unit height will be height of the base unit plus the H dimension.



# eco-Hybrid APPLICATIONS

## Electric Basin Heaters

Electric immersion heaters are available factory-installed in the basin of the cooler. Standard Heaters are sized to maintain a +40°F pan water temperature with the fans and pumps off and an ambient air temperature of 0°F. The heater option includes a thermostat and low-water protection device to control the heater and to prevent it from energizing unless they are completely submerged. All components are in weather proof enclosures for outdoor use. The heater power contactors and electric wiring are not included as standard.



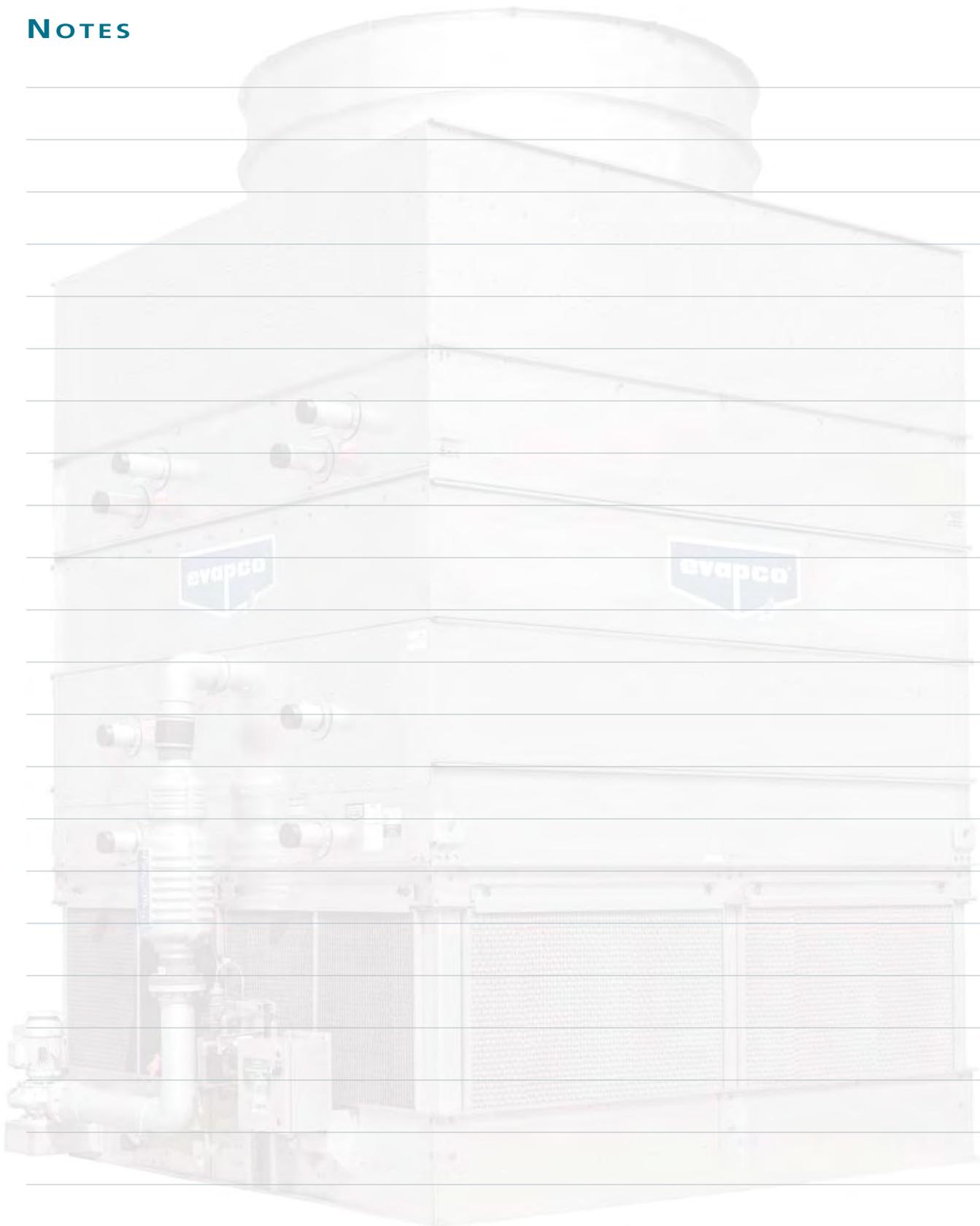
eco-ATWB-H Heater Sizes \*

Unit No.	0°F kW	-20°F kW	-40°F kW
eco-ATWB-H 9x9	7	10	15
eco-ATWB-H 9x12	(2) 4	(2) 7	(2) 9
eco-ATWB-H 9x14	(2) 5	(2) 7	(2) 10
eco-ATWB-H 9x18	(2) 6	(2) 9	(2) 12
eco-ATWB-H 9x21	(2) 7	(2) 12	(2) 15
eco-ATWB-H 17x12	(4) 4	(4) 7	(4) 9
eco-ATWB-H 17x14	(4) 5	(4) 7	(4) 10
eco-ATWB-H 10x12	(2) 5	(2) 8	(2) 10
eco-ATWB-H 10x18	(2) 7	(2) 12	(2) 15
eco-ATWB-H 10x24	(4) 5	(4) 8	(4) 10
eco-ATWB-H 10x36	(4) 7	(4) 12	(4) 15
eco-ATWB-H 20x12	(4) 5	(4) 8	(4) 10
eco-ATWB-H 20x18	(4) 7	(4) 12	(4) 15
eco-ATWB-H 12x12	(2) 6	(2) 9	(2) 12
eco-ATWB-H 12x14	(2) 7	(2) 10	(2) 15
eco-ATWB-H 12x18	(2) 9	(2) 15	(2) 18
eco-ATWB-H 12x20	(2) 10	(2) 15	(3) 15
eco-ATWB-H 12x24	(4) 6	(4) 9	(4) 12
eco-ATWB-H 12x28	(4) 7	(4) 10	(4) 15
eco-ATWB-H 12x36	(4) 9	(4) 15	(4) 18
eco-ATWB-H 12x40	(4) 10	(4) 15	(6) 15
eco-ATWB-H 24x12	(4) 6	(4) 9	(4) 12
eco-ATWB-H 24x14	(4) 7	(4) 10	(4) 15
eco-ATWB-H 24x18	(4) 9	(4) 15	(4) 18
eco-ATWB-H 24x20	(4) 10	(4) 15	(4) 20

\*Electric heater selection based on ambient air temperature shown.

# APPLICATIONS **eco-Hybrid**

## NOTES





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