Bulletin 160D - Metric

evapco®

NEW!

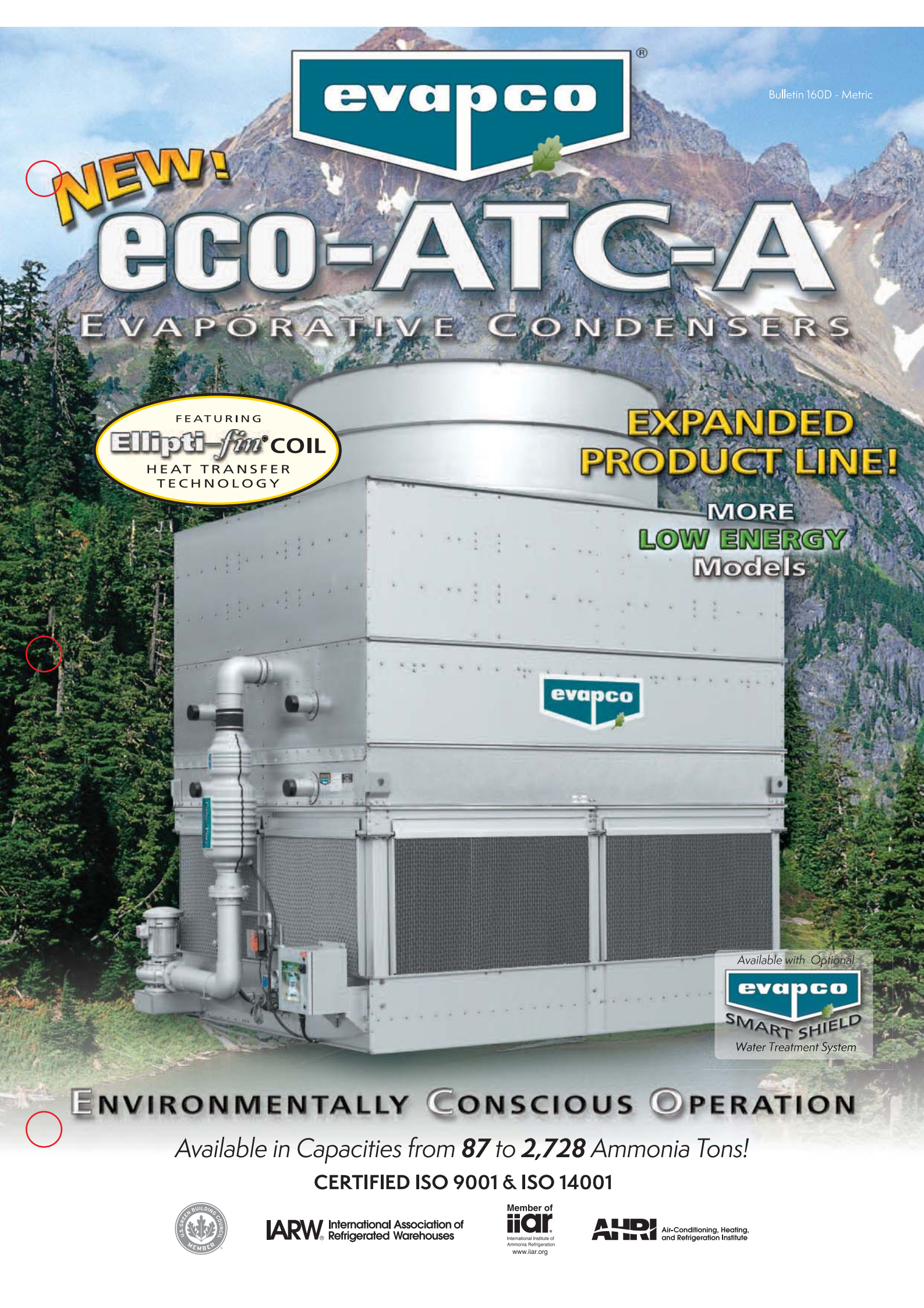
eco-ATC-A

EVAPORATIVE CONDENSERS

FEATURING Ellipti-*fin*® COIL HEAT TRANSFER TECHNOLOGY

EXPANDED PRODUCT LINE!

MORE LOW ENERGY Models



Available with Optional

evapco SMART SHIELD

Water Treatment System

ENVIRONMENTALLY CONSCIOUS OPERATION

*Available in Capacities from **87** to **2,728** Ammonia Tons!*

CERTIFIED ISO 9001 & ISO 14001

U.S. Green Building Council Member

IARW International Association of Refrigerated Warehouses

Member of iiar International Institute of Ammonia Refrigeration www.iiar.org

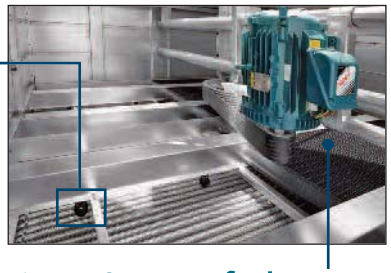
AHRI Air-Conditioning, Heating, and Refrigeration Institute

eco-ATC-A Design & Construction Features

The eco-ATC-A line of evaporative condensers represents EVAPCO's newest advancement in thermal heat transfer research and development. Utilizing the **Ellipti–*fin*®** heat transfer coil, the eco-ATC-A offers improved heat transfer during wet operation and offers significant water savings due to extended periods of dry operation. The eco-ATC-A is another chapter in EVAPCO's on-going commitment to quality, environmentally friendly products.

PVC Spray Distribution Header with ZM® II Nozzles

- Large orifice nozzles prevent clogging (no moving parts).
- Redesigned nozzles for superior water distribution.
- Nozzles are threaded into header at proper orientation.
- Fixed position nozzles require zero maintenance.
- Threaded and caps for ease of cleaning.
- Guaranteed for life.



Water Saver Drift Eliminators

- Patented design reduces drift rate to 0.001%.
- Made from corrosion resistant PVC for long life.

U.S. Patent No. 6,315,804

G-235 Mill Hot-Dip Galvanized Steel Construction

(Stainless steel available as affordable option)

Ellipti–*fin*® *Heat Transfer Technology*

- Thermal Pak® coil with extended surface.
- Water savings through extended periods of dry operation.
- High heat transfer efficiency.
- Low refrigerant charge.

Solid Chemistry Water Treatment

(Optional, not shown)

- Controlled release chemistry provides uniform treatment over a 30 day period.
- Factory mounted and wired.
- Easier and safer, eliminates the potential for liquid spills.

U.S. Patent No. 8,398,850

Totally Enclosed Pump Motors

- Help assure long, trouble-free operation.

Stainless Steel Strainer

- Resists corrosion better than other materials.

Super Low Sound Fan *(optional)*

- **9-15 dB(A) sound reduction.**
- Extremely wide chord fan blades for sound sensitive applications.
- Heavy duty construction.

Advanced Drive System Design

- Totally Enclosed Fan Motors assures Long Life.
- Power-Band Belts for Better Lateral Rigidity.
- Advanced Design Aluminum Fan Blades.
- Non-corroding Cast Aluminum Sheaves.
- Heavy-Duty Fan Shaft Bearings with L-10 Life of 75,000 - 135,000 hrs.
- All Other Components Corrosion Resistant Materials.

Easy to Service Motor Mount Design

- **All normal maintenance can be performed quickly from outside the unit.**
- Designed for easy belt adjustment.
- Extended lube lines for easy bearing lubrication.
- If required, motor may swing to outside for easy removal (3m, 3.6m & 7.3m wide models).

Unique Field Seam

- Eliminates up to 66% of fasteners.
- Self guiding channels improve quality of field seam to reduce leaks.
- Easy to install.
- Lower installation cost.

Air Inlet Access Door *(optional)*

- Increased ease of access to basin.
- Hinged access panel with quick release mechanism.
- Not available on all models.

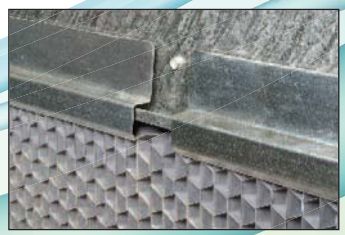
"Clean Pan" Basin Design

- Access from all four sides.
- Large open area simplifies maintenance.
- Basin may be inspected with pumps running.
- Sloped basin design prevents sediment buildup biological film and standing water.

WST Framed Inlet Louvers (Water and Sight Tight)

- Framed for easy handli tighter fit and longer life.
- Design keeps sunlight out – preventing biological growth.
- Keeps water in while keeping dirt and debris out.

U.S. Patent No. 7,927,196



eco-ATC-A Design & Construction Features

About EVAPCO

EVAPCO is the global innovator in heat transfer solutions. Our pledge is to make everyday life easier, more comfortable, more reliable, and more sustainable for people everywhere. With manufacturing facilities and sales offices in more than 40 countries and 28 patents worldwide in the last 10 years alone—we are the team that engineers and contractors know they can count on for life.

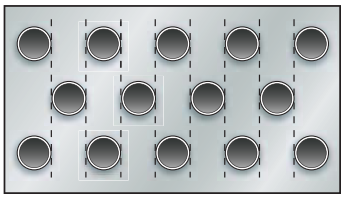
Contact

your local Evapco Representative
or visit **evapcoasia.com** to learn

Ellipti-*fin*® Heat Transfer Coil

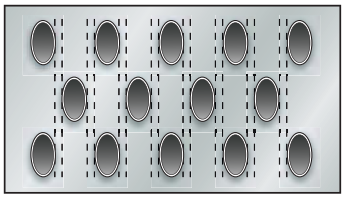
Evolution of Heat Transfer Technology

EVAPCO has a long standing commitment to heat transfer research and development. This commitment has resulted in a number of advancements in heat transfer coil design. Up until the mid-1980's, evaporative condensers were manufactured



Round Tube Coil by Others

with tightly packed round tube coils. Through thousands of hours of testing and research, EVAPCO developed the Thermal Pak® coil. The Thermal Pak® coil was patented in 1987, (now expired), and changed the thinking of system design engineers by changing the shape of the coil tubes. The elliptical tube design maximized the effective tube surface area while lowering airside pressure drop and allowing for higher water loading. The combination of the elliptical shape tube in the Thermal Pak® orientation increased heat transfer efficiency and resulted in one of the highest capacities per plan area of evaporative condensers available today.



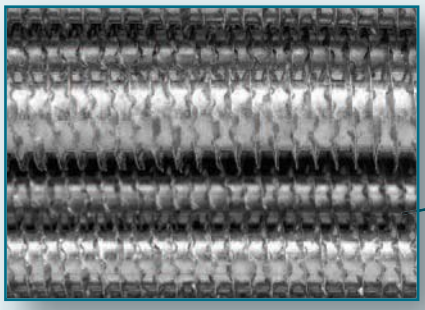
Thermal-Pak® Coil by EVAPCO

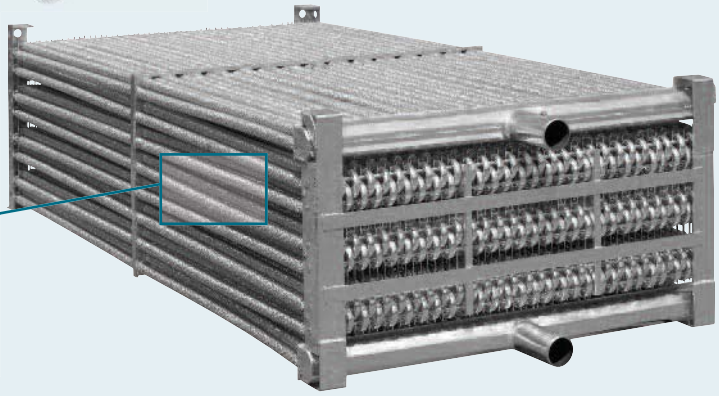
Throughout the late 1980's and into the 1990's EVAPCO was continuously looking for ways to improve heat transfer efficiency. This research resulted in the development of the Thermal Pak® II heat transfer coil. The Thermal Pak® II coil utilized the same elliptical shape tube introduced in the original Thermal Pak coil, but changed the orientation of the tubes to improve the tubes air to water interface for increased heat transfer efficiency.

The development of the Thermal Pak® II coil resulted in a reduction in refrigerant charge as well as a reduction in operating weight through reduced coil volume while maintaining the same thermal performance as the original Thermal Pak® coil design.

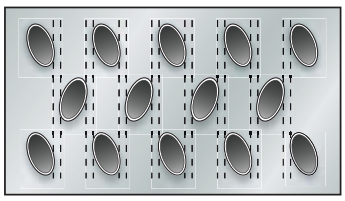
eco-ATC-A Design & Construction Features

Ellipti–*fin*® Heat Transfer Coil





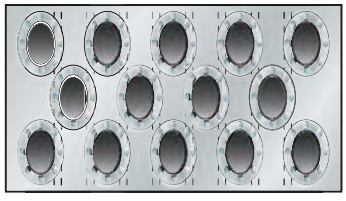
- Elliptical Tubes with Spiral Wound Fins
- Improved Dry and Wet Operation
- All Rows Finned



Thermal-Pak® II Coil by EVAPCO

Research and development is an on-going process at EVAPCO. Through the success of the Thermal Pak II coil, EVAPCO saw the potential for new coil configurations and the need for new manufacturing technology to improve processes and efficiency. During this same time, it became evident that a need exists for more environmentally conscious evaporative cooling products.

EVAPCO used the experience gained through the development of the Thermal Pak and Thermal Pak II heat transfer coils and combined with new manufacturing procedures to develop the **Ellipti–*fin*®** heat transfer coil. The **Ellipti–*fin*®** coil utilizes elliptical shape tube with extended surface fins for maximum heat transfer efficiency. **The extended surface increases the heat transfer efficiency in the evaporative or wet mode as well as the dry mode of operation.**



Ellipti–*fin*® Finned Eliptical Tube by EVAPCO (Patent Pending)

The **Ellipti–*fin*®** coil incorporates features of both the Thermal pak and Thermal Pak II coils as the tubes are oriented vertically yet spaced so as not to increase the airside pressure drop. As such, eco-ATC-A condensers are not subject to the performance penalties normally associated with round tube extended surface coils. Additionally, EVAPCO ensures proper evaporative operation by thoroughly wetting the coil surface with one of the highest water loading rates in the industry for conventional evaporative condensers.

Ellipti–*fin*® coils are manufactured from high quality carbon steel tubing following the most stringent quality control procedures and in accordance with the ASME B31.5 Refrigerant Piping Code. Each circuit is inspected to assure the material quality and tested before fins are wound onto the surface of the tube. Each circuit is then assembled into a complete coil. Finally, the assembled coil is tested at 2.69 MPa air pressure under water to make sure it is leak free. To protect the coil against corrosion, and complete the bond between tube and fin, the entire assembly is dipped in molten zinc (hot dip galvanized) at a temperature of approximately 427°C.

EVAPCO'S new **Ellipti–*fin*®** condensing coils are designed for maximum heat transfer efficiency. This unique coil design utilizes counterflow heat transfer. The rows of the finned elliptical tubes are positioned vertically in the direction of airflow to enhance turbulence, which increases heat transfer while minimizing airside pressure drop. The design features of EVAPCO's **Ellipti–*fin*®** condensing coils ensure the end-user will receive maximized evaporative heat transfer efficiency wet or dry. These characteristics and other engineering advancements of the **Ellipti–*fin*®** have been proven in EVAPCO'S world-class research and development laboratory.

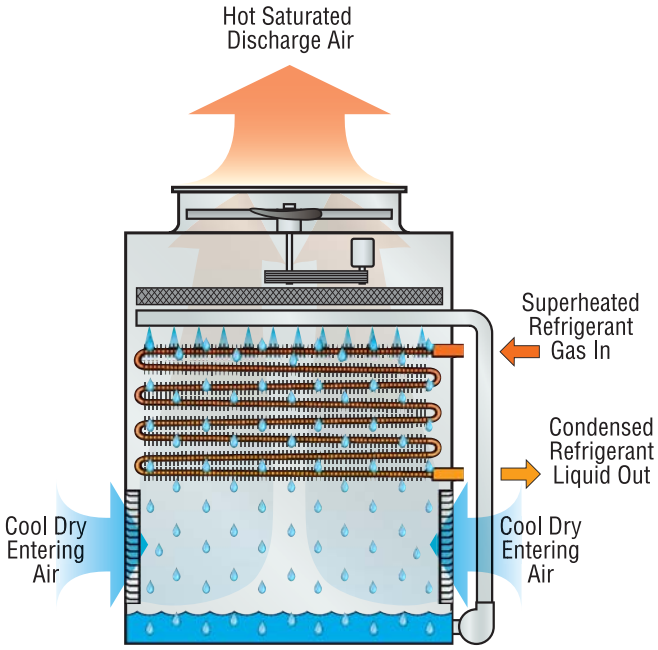
eco-ATC-A Design Features

Proven Performance and Design Flexibility

Principle of Operation

Evaporative Mode

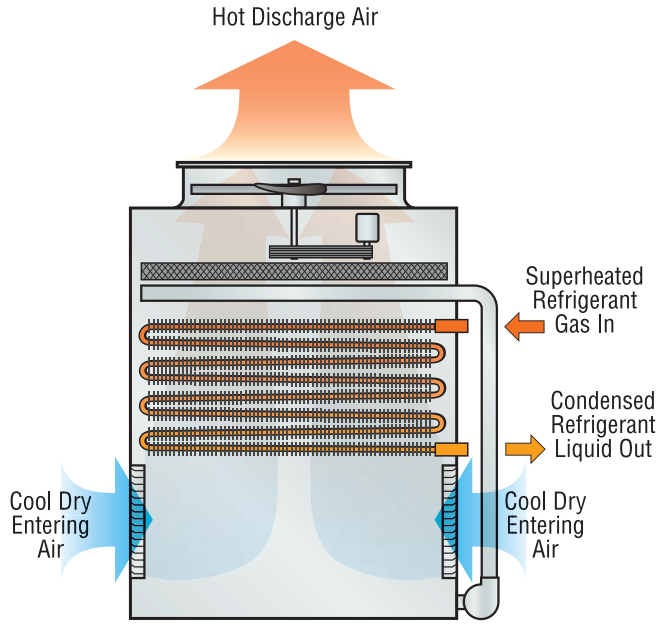
The refrigerant gas is discharged from the compressor into the inlet connection of the eco-ATC-A condenser. Water from the condenser's sump is circulated over the condenser coil, while ambient air is simultaneously drawn into the unit. As the ambient air moves up through the coil section, a portion of the spray water is evaporated into the air stream. The evaporative process cools the spray water, which in turn cools the tubes containing the refrigerant gas. The cool tube walls cause the refrigerant gas to give up heat and condense into a liquid. The condensed liquid flows out of the coil to the high pressure liquid receiver for return to the system. The hot, saturated air is drawn through the drift eliminators, where any entrained water droplets are removed. The condenser's fan then discharges this air stream out of the top of the unit at a high velocity, where it can dissipate harmlessly into the atmosphere. The water which was not evaporated falls into the sump and is recirculated by the spray pump to the water distribution system above the condensing coil section.



eco-ATC-A Evaporative Mode

Dry Mode

The refrigerant gas is discharged from the compressor into the inlet connection of the eco-ATC-A condenser. Ambient air is drawn into the unit and moves over the heat transfer coil. The air is warmed while the tubes containing the refrigerant gas are cooled. The cool tube walls cause the refrigerant gas to give up heat and condense into a liquid. The condensed liquid flows out of the coil to the high pressure liquid receiver for return to the system. The hot discharge air is drawn through the drift eliminators and then the fan then discharges the air stream out of the top of the unit where it can dissipate harmlessly into the atmosphere.



eco-ATC-A Dry Mode

eco-ATC-A Design Features

Proven Performance and Design Flexibility

Water and Energy Saving with eco-ATC-A Technology

Low Fan Motor Hp

The eco-ATC-A features the new EVAPCO **Ellipti-*fin*®** coil, which utilizes elliptical spiral fin coil technology. This technology allows a 10% to 30% increase in thermal performance, depending on the coil configuration, when operating in the wet or evaporative mode, while offering model selections with reduced fan motor horsepower. This will result in significant energy savings throughout the year.

Reduced Plan Area

Due to the increased thermal performance, new eco-ATC-A also minimizes the footprint required for a given capacity thereby reducing the space required for an evaporative condenser. A smaller footprint means less steel and lower installation costs.

Significant Water Savings

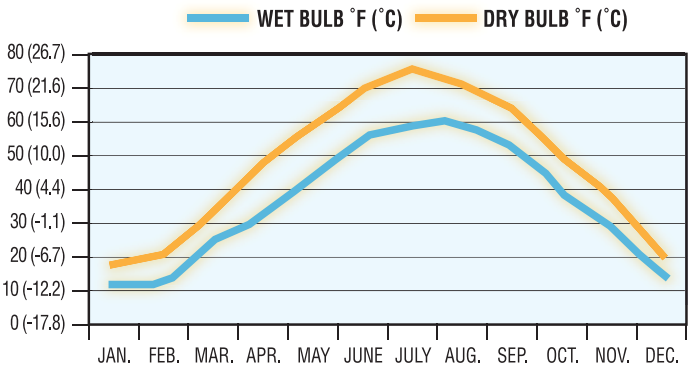
The **Ellipti-*fin*®** coil technology enables the eco-ATC-A to be operated in a 100% Dry Mode at a significantly higher switchover temperature than that of a typical bare tube coil evaporative condenser. This leads to a significant increase in the number of hours per year the condenser can operate in dry mode (spray pumps off), thus increasing your water savings. This combination of features allows the eco-ATC-A to be operated with both energy and water efficiency in mind, making it the ideal choice for many installations.

Consider a meat processing plant application near Minneapolis, MN where the unit is required to reject a constant heat load of 500 tons of refrigeration at a 95°F (35°C) condensing temperature and a summer design wet bulb temperature of 76°F (24.4°C). The process operates 24 hours a day 7 days a week. The eco-ATC-A evaporative condenser and an ATC-E evaporative condenser are compared as follows:

EVAPCO Model	ATC-723E	eco-ATC-700A
Plan Area	3.6m x 5.4m	3.6m x 5.4m
Fan Motor	22 kW	15 kW
Pump Motor	5.5 kW	5.5 kW

Model Comparison

In the previous example, the eco-ATC-A model requires lower fan motor horsepower than the equivalent ATC-E while maintaining the same plan area. The potential for reduced hp during wet operation is only one of the eco-ATC-A benefits. The enhanced dry performance of the eco-ATC-A can be illustrated by using bin weather data for Minneapolis, MN as shown below.



Minneapolis Annual Weather Data

Assuming a load profile requiring full 70% heat rejection requirement for a full time operation of the refrigeration system yields the following comparison between the eco-ATC-A and the ATC-E:

EVAPCO Model	ATC-723E	eco-ATC-700A
Plan Area	3.6m x 5.4m	3.6m x 5.4m
Fan Motor	22 kW	15 kW
Pump Motor	5.5 kW	5.5 kW
70% Dry Switchover	-5°F (-20.6°C)	35.7°F (2°C)
% Dry Operation /Year	2%	34%

The above example shows the eco-ATC-700A can be operated without spray water 34% of the year while maintaining 70% of the full load capacity. The additional dry operation means less opportunity for freeze-ups, reduced water management costs and reduced water treatment costs.

eco-ATC-A Design Features

Proven Performance and Design Flexibility

Construction Features

EVAPCO, long known for using premium materials of construction, has developed the ultimate system for corrosion protection in galvanized steel construction – the EVAPCOAT Corrosion Protection System. Marrying corrosion free materials with heavy gauge mill hot-dip galvanized steel construction to provide the longest life product with the best value.

G-235 Mill Hot-Dip Galvanized Steel Construction

Mill hot-dip galvanized steel has been successfully used for over 40 years for the protection of evaporative condensers against corrosion. There are various grades of mill galvanized steel each with differing amounts of zinc protection. EVAPCO has been a leader in the industry in developing heavier galvanizing, and was the first to standardize on G-235 mill hot-dip galvanized steel.

G-235 designation means there is a minimum of 2.35 ounces of zinc per square foot of surface area as measured in a triple spot test. G-235 is the heaviest level of galvanizing available for manufacturing evaporative condensers and has a minimum of 12% more zinc protection than competitive designs using G-210 steel.

During fabrication, all panel edges are coated with a 95% pure zinc-rich compound for extended corrosion resistance.

Type 304 Stainless Steel Strainers

Subjected to excessive wear and corrosion, the sump strainer is critical to the successful operation of the condenser. EVAPCO uses only stainless steel for this very important component.

Unique Seam Design–Eliminate Field Leaks

The eco-ATC-A features EVAPCO's unique panel construction design which includes a special butyl tape sealer with an integral sealing gasket. Each joint is then backed with a secondary caulking compound and encased in a double-brake flange for added strength and structural integrity. This unique sealing system has been proven effective in both laboratory tests and years of field application.

Easy Field Assembly

The eco-ATC-A features a unique field seam design which ensures easier assembly and fewer field seam leaks. The field seam incorporates self-guiding channels to guide the coil casing section into position and set in place on the bottom basin section of the condenser. In addition, the design eliminates up to 66% of the fasteners typically used to join the condenser sections in the field significantly reducing the contractor labor costs for installation.

Improved Maintenance

ZM®II Spray Nozzle Water Distribution System

ZM®II Nozzle

Even and constant water distribution is paramount for reliable, scale-free evaporative condensing. EVAPCO'S Zero Maintenance ZM®II Spray Nozzle remains clog-free under the toughest conditions to deliver approximately 6 GPM to every square foot of coil plan area.

The heavy-duty ABS ZM®II Spray Nozzles have a 32mm diameter opening and a 32mm splash plate clearance. The fixed position ZM®II Spray Nozzles are mounted in corrosion-free PVC water distribution pipes that have threaded end caps. Together, these elements combine to provide enhanced water droplet formation, delivered uniformly over the coil resulting in superior thermal performance and a virtually maintenance free water distribution system.

Alternate Materials of Construction

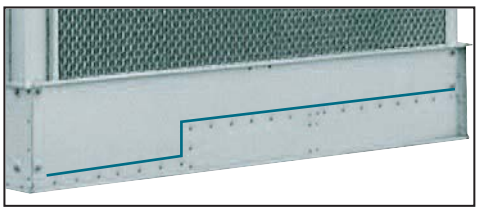
EVAPCO induced draft condensers have a modular design which allows for specific areas to be enhanced for increased corrosion protection. For particularly corrosive environments, EVAPCO condensers are available with Stainless Steel construction for the basin, casing and/or coil.

Stainless Steel Basin

The basin area of a condenser is often subjected to high concentrations of impurities and silt. In addition to the EVAPCOAT Corrosion Protection System, EVAPCO offers optional stainless steel construction for superior corrosion resistance. This option provides Type 304 or Type 316 stainless steel for the entire basin section - including the support columns and air inlet louver frames.

"Clean Pan" Basin Design

EVAPCO eco-ATC-A condensers feature a sloped basin from the upper to lower pan section. This "Clean Pan" design allows the water to be completely drained from the basin. The condenser water will drain from the upper section to the depressed lower pan section where the dirt and debris can be easily flushed out through the drain. This design helps prevent buildup of sedimentary deposits, biological films and minimizes standing water.



eco-ATC-A Design Features

Proven Performance and Design Flexibility

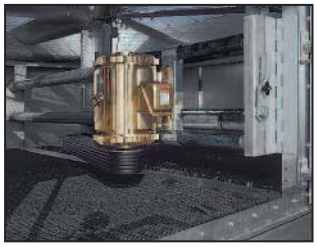
Belt Drive Units –2.2m, 2.5m, 4.6m & 5.2m Wide Models

The fan motor and drive assembly on these units is designed to allow easy servicing of the motor and **adjustment of the belt tension from the exterior of the unit.** A T.E.F.C. fan motor is mounted on the outside of these models. A protective cover swings away to allow servicing and belt adjustment.
A large hinged access door with a "quick release" latch provides access to the fan section for maintenance.

External Motor Mount (with optional ladder)

Belt Drive Units – 3m, 3.6m & 7.3m Wide Models

The fan motor and drive assembly is designed to allow easy **servicing of the motor and adjustment of the belt tension from the exterior of the unit.** The T.E.A.O. fan motor is located inside the fan casing on a rugged heavy duty motor base. The innovative motor base also features a unique locking mechanism for a positive adjustment.



Motor Base Assembly

The motor base is designed to swing out through a very large, 1.3 square meter access opening. This allows for easy servicing of the motor.

Drive System

Inverter Duty Motors: Inverter Duty Motors are standard on eco-ATC-A condensers. Inverter Duty motors are totally enclosed inverter capable (VFD by others).

Note: Variable Frequency Drive control may require other component modification such as motor shaft grounding brushes, AC load reactors, low pass filters and tuned trap filters to ensure proper motor performance and service life.

Power- Band Drive Belt: The Power-Band is a solid-back, multigroove belt system that has high lateral rigidity. The belt is constructed of neoprene with polyester cords. The drive belt is designed for minimum 150% of the motor nameplate horsepower for long life and durability.

Fan Shaft Bearings: The fan shaft bearings in eco-ATC-A units are specially selected for long, trouble-free life. They are rated for an L-10 life of 75,000 to 135,000 hours and are the heaviest pillow block bearing available.

Aluminum Alloy Sheaves: Fan sheaves are constructed of corrosion free aluminum for long life, eliminating the corrosion that occurs on cast sreel sheaves, thereby extending belt life.

Superior Water Saver Drift Eliminators

An extremely efficient drift eliminator system is standard on EVAPCO condensers. The patented system removes entrained water droplets from the air stream to limit the drift rate to less than 0.001% of the recirculating water rate. The drift eliminators are constructed of an inert polyvinyl chloride (PVC) plastic material which effectively eliminates corrosion of these vital components. They are assembled in sections to facilitate easy removal for inspection of the water distribution system.

Water Saver Drift Eliminator

Superior WST Framed Air Inlet Louver Design

EVAPCO'S WST Framed Inlet Louvers keep water in and sunlight out of the basins of induced draft products. The unique non-planar design is made from light-weight PVC sections which easily fit together and have no loose hardware, enabling easy basin access.

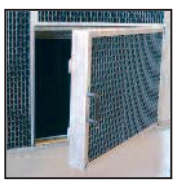
Framed Inlet Louver Design

Developed with computational fluid dynamics (CFD) software and tested in EVAPCO's R&D center, the louver's air channels are optimized to maintain fluid dynamic and thermodynamic efficiency and block all line-of-sight paths into the basin eliminating splash-out; even when the fans are off. Additionally, algae growth is minimized by blocking all sunlight.

The combination of rugged frames, easy basin access, no splash-out and minimized algae growth saves the end user money on maintenance hours, water consumption and water treatment costs.

Air Inlet Access Door (Optional)

To aid in basin maintenance, eco-ATC-A models can be equipped with an optional air inlet access door. This feature improves the maintainability of the condenser by allowing easy access to the make-up float assembly and strainer for inspection without removing an entire inlet louver.



SMART SHIELD® Solid Chemical Water Treatment System

The eco-ATC-A is available with EVAPCO's **Factory Mounted** water treatment systems. EVAPCO offers a soild 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 cooler.

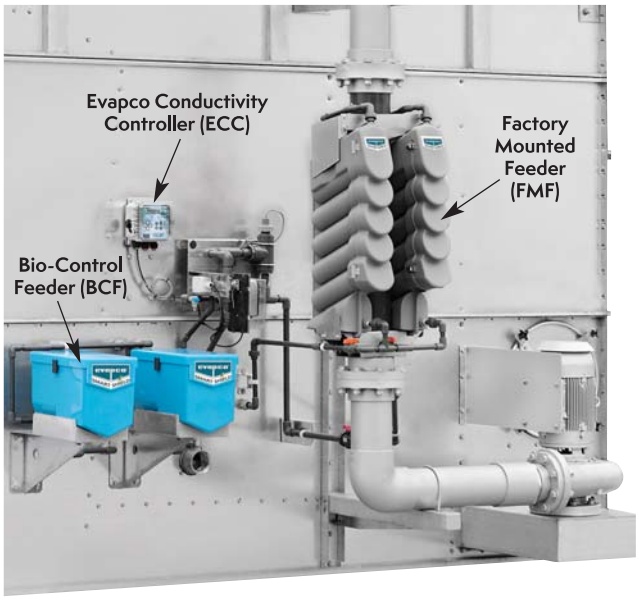
EVAPCO's Water Systems offer eco-ATC-A owners a single-source of responsibility for equipment, water treatment, and service. Smart Shield® is manufactured and warranted by EVAPCO.

Benefits of adding an EVAPCO water treatment system include:

- **SAVES 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's **Smart Shield®** system utilizes proven solid chemistry delivered via our revolutionary feed system. Patented controlled relese 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 pachage 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.



IBC Compliance

IBC Compliance

EVAPCO has been applying advanced structural technology to evaporative condensers for many years. Following seismic events in the mid 1990's EVAPCO introduced the UB Series of induced draft cooling towers, fluid coolers and evaporative condensers. These products were designed, built and independently certified for extreme seismic and wind forces. With the advent of the International Building Code, EVAPCO is now offering a new line of eco-ATC-A Evaporative Condensers that is IBC compliant as standard construction.

International Building Code

The International Building Code (IBC) is a comprehensive set of regulations addressing the structural design and installation requirements for building systems – including HVAC and industrial refrigeration equipment. As of June 2008, all 50 states plus Washington D.C have adopted the International Building Code. Compared to previous building codes that solely examined anchorage, the earthquake provisions contained within the International Building Code address anchorage, structural integrity, and operational capability of a component following a seismic event. The goal of the IBC is to minimize the loss of life and improve the capability of essential facilities to operate after a seismic event.

The International Building Code (IBC) was developed to replace the *BOCA National Building Code*, ICBO's *Uniform Building Code* and SBCCI's *Standard Building Code*. The International Building Code specifies that all components be designed to resist the equivalent seismic forces as the structure to which thay are installed whereas previous building codes focused exclusively on the structure of the building to provide resistance against seismic forces. These components include all aspects of the building architectural, electrical and mechanical systems. The failure of these components during a seismic event has been a common occurrence in recent history. Although the structure of the building may be relatively undamaged from an earthquake, the damage to the nonstructural components could be significant and result in considerable secondary damage to the building (ie. flooding, fire, structural damage).

Importance Factor (I_p)

A major parameter that must be determined prior to calculating the seismic design force is the component importance factor (I_p). ASCE 7-10 defines the component importance factor as:

Importance Factor, I_p	Classification
1.5	• Life safety component required to function after seismic event. • Component containing hazardous content where the quantity, if released, exceeds a threshold limit that is sufficient to pose a threat to the public. • Components installed at Risk Category IV (essential) facilities
1.0	All other components

The importance factor has
significant impact on the design of the equipment necessary for the application. Please contact the factory for assistance in understanding your needs.

Design Implementation

In order to achieve this goal, an architect or civil engineer is responsible for analyzing the soil and the design of a structure to determine the factors to be used and provide those in construction documents. A mechanical consulting engineer and/or design build contractor applies these factors to advise the manufacturer on the proper design for the application. EVAPCO takes this information and determines the necessary condenser to meet IBC regulations. This process ensures that the mechanical equipment and its components are seismically compliant per the provisions of the International Building Code.

Independent Certification

All EVAPCO eco-ATC-A units are designed, analyzed, and constructed in accordance with the latest edition of the International Building Code (IBC) Regulations. eco-ATC-A is offered with a choice of two structural design packages: standard construction and upgraded construction.

For further questions regarding IBC compliance, please contact your local EVAPCO Representative or visit www.evapcoasia.com.

Engineering & Dimensions Data
eco-ATC-201A to eco-ATC-368A

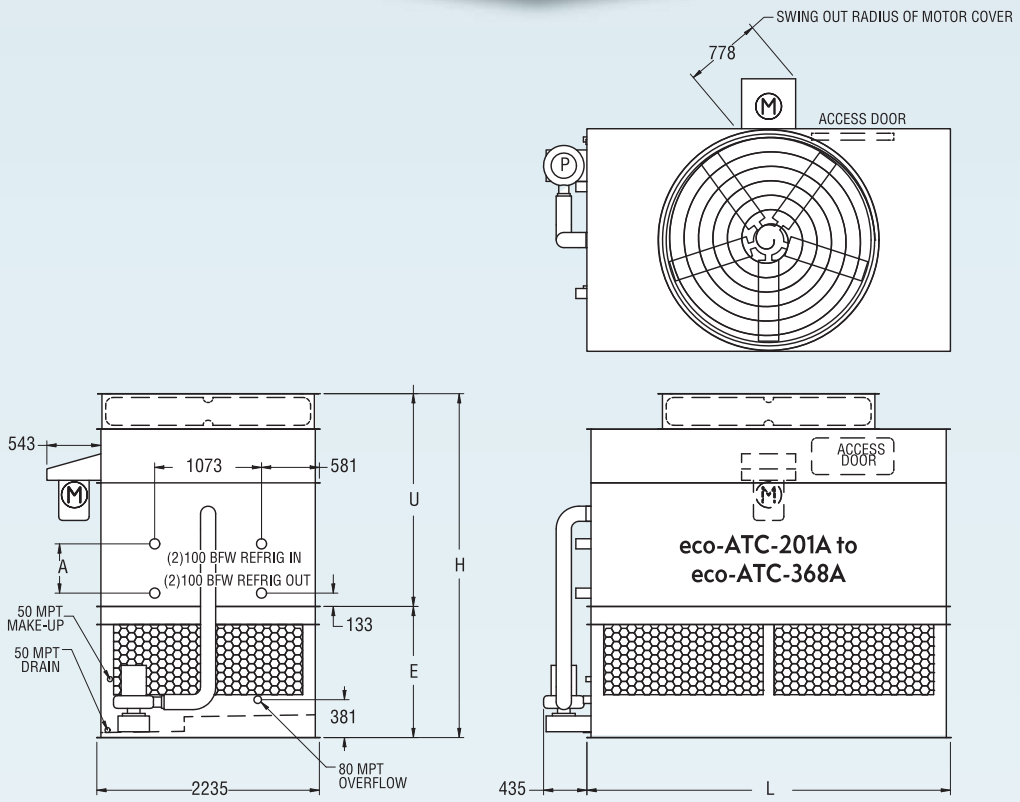


Table 1 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-201A	143	5.5	16.0	3,995	4,665	3,275	64	545	1.5	25.8	455	200	4,130	3454	2137	1318	495	2731
eco-ATC-217A	154	7.5	17.6	4,005	4,670	3,285	64	545	1.5	25.8	455	200	4,140	3454	2137	1318	495	2731
eco-ATC-224A	159	5.5	15.1	5,315	6,020	4,595	103	877	1.5	25.8	455	200	5,490	3835	2518	1318	876	2731
eco-ATC-230A	164	5.5	14.6	5,985	6,715	5,265	122	1042	1.5	25.8	455	200	6,180	4026	2708	1318	1067	2731
eco-ATC-233A	166	7.5	17.1	4,655	5,340	3,935	83	711	1.5	25.8	455	200	4,810	3645	2327	1318	686	2731
eco-ATC-242A	172	7.5	16.6	5,325	6,030	4,605	103	877	1.5	25.8	455	200	5,500	3835	2518	1318	876	2731
eco-ATC-247A	176	7.5	16.1	5,995	6,720	5,275	122	1042	1.5	25.8	455	200	6,190	4026	2708	1318	1067	2731
eco-ATC-253A	180	11	19.1	4,710	5,395	3,985	83	711	1.5	25.8	455	200	4,865	3645	2327	1318	686	2731
eco-ATC-265A	188	11	18.6	5,380	6,085	4,660	103	877	1.5	25.8	455	200	5,550	3835	2518	1318	876	2731
eco-ATC-274A	195	11	18.0	6,050	6,775	5,330	122	1042	1.5	25.8	455	200	6,245	4026	2708	1318	1067	2731
eco-ATC-296A	210	11	24.3	4,950	5,900	4,085	84	716	2.2	34.7	605	250	5,170	3454	2137	1318	495	3651
eco-ATC-316A	225	11	23.6	5,840	6,815	4,975	110	938	2.2	34.7	605	250	6,085	3645	2327	1318	686	3651
eco-ATC-337A	240	11	22.9	6,690	7,695	5,830	137	1161	2.2	34.7	605	250	6,965	3835	2518	1318	876	3651
eco-ATC-352A	250	15	24.8	6,720	7,725	5,855	137	1161	2.2	34.7	605	250	6,995	3835	2518	1318	876	3651
eco-ATC-368A	261	15	24.0	7,605	8,635	6,745	162	1383	2.2	34.7	605	250	7,905	4026	2708	1318	1067	3651

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.

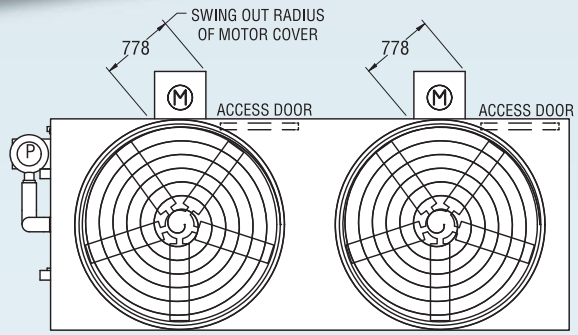
** Liters shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation. (300mm would normally be sufficient.)

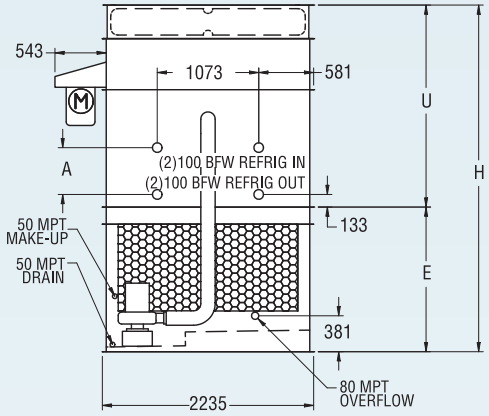
† Heaviest section is the coil section.

*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.

Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-402A to eco-ATC-548A





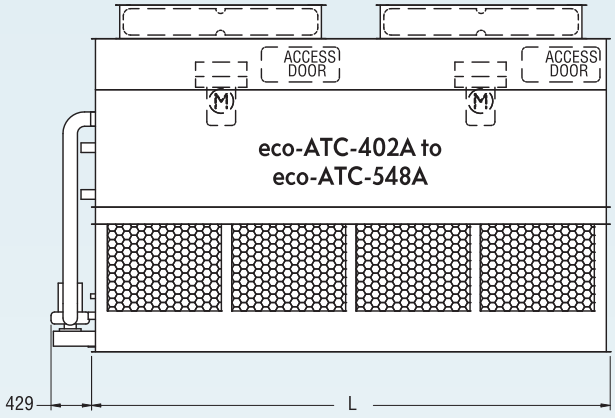


Table 2 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-402A	286	(2) 5.5	32.2	7,455	8,920	6,085	124	1057	4	50.4	910	300	7,845	3667	2137	1530	495	5486
eco-ATC-433A	308	(2) 7.5	35.3	7,465	8,935	6,095	124	1057	4	50.4	910	300	7,855	3667	2137	1530	495	5486
eco-ATC-450A	320	(2) 5.5	30.3	10,090	11,635	8,720	203	1729	4	50.4	910	300	10,555	4048	2518	1530	876	5486
eco-ATC-460A	327	(2) 5.5	29.4	11,425	13,015	10,055	243	2065	4	50.4	910	300	11,935	4239	2708	1530	1067	5486
eco-ATC-466A	331	(2) 7.5	34.3	8,780	10,290	7,410	164	1393	4	50.4	910	300	9,210	3858	2327	1530	686	5486
eco-ATC-484A	344	(2) 7.5	33.2	10,100	11,650	8,730	203	1729	4	50.4	910	300	10,570	4048	2518	1530	876	5486
eco-ATC-494A	351	(2) 7.5	32.2	11,440	13,025	10,070	243	2065	4	50.4	910	300	11,950	4239	2708	1530	1067	5486
eco-ATC-505A	359	(2) 11	38.4	8,895	10,405	7,525	164	1393	4	50.4	910	300	9,325	3858	2327	1530	686	5486
eco-ATC-532A	378	(2) 11	37.2	10,215	11,760	8,845	203	1729	4	50.4	910	300	10,680	4048	2518	1530	876	5486
eco-ATC-548A	389	(2) 11	36.1	11,555	13,140	10,185	243	2065	4	50.4	910	300	12,060	4239	2708	1530	1067	5486

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.
** Liters 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. (300mm would normally be sufficient.)
† Heaviest section is the coil section.
*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.
Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-595A to eco-ATC-736A

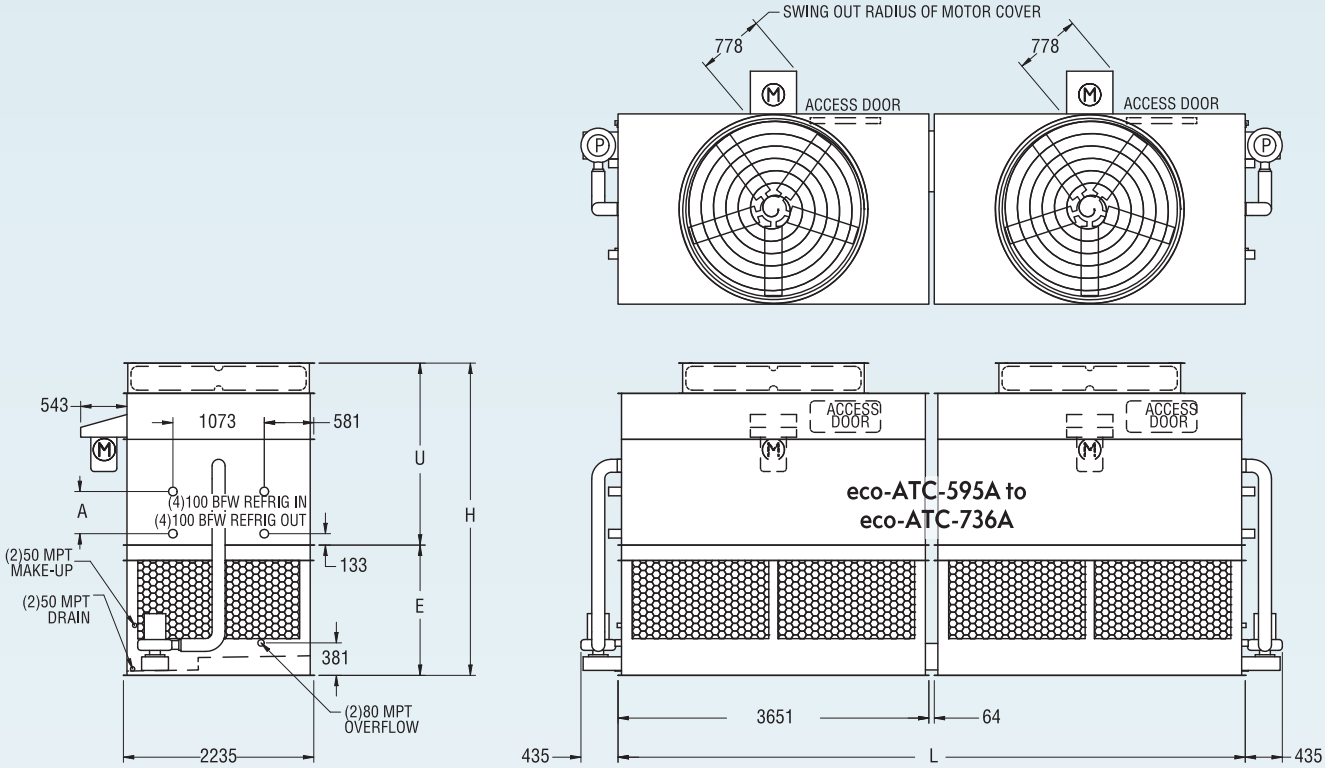
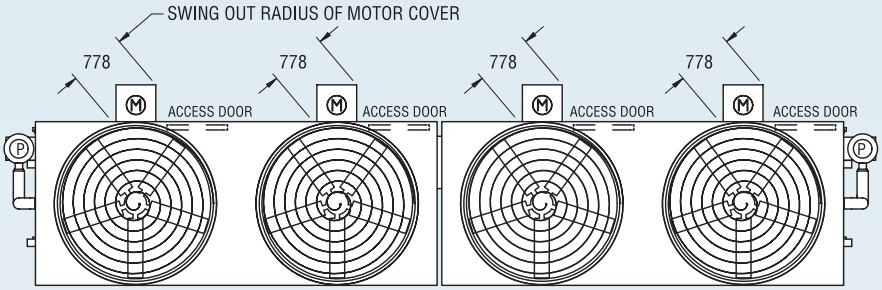


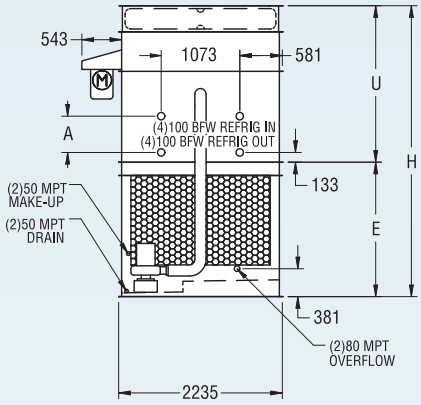
Table 3 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m^3/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-595A	422	(2)11	48.6	13,800	14,985	5,255	168	1431	(2)2.2	69.4	1175	250	13,490	3667	2137	1530	495	7366
eco-ATC-634A	450	(2)11	47.2	15,650	16,890	6,180	220	1876	(2)2.2	69.4	1175	250	15,395	3858	2327	1530	686	7366
eco-ATC-674A	479	(2)11	45.8	17,445	18,740	7,075	273	2321	(2)2.2	69.4	1175	250	17,245	4048	2518	1530	876	7366
eco-ATC-702A	498	(2)15	49.6	17,500	18,795	7,105	273	2321	(2)2.2	69.4	1175	250	17,300	4048	2518	1530	876	7366
eco-ATC-736A	522	(2)15	48.1	19,370	20,710	8,040	325	2766	(2)2.2	69.4	1175	250	19,215	4239	2708	1530	1067	7366

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.
** Liters 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. (300mm would normally be sufficient.)
† Heaviest section is the coil section.
*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.
Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-806A to eco-ATC-1096A





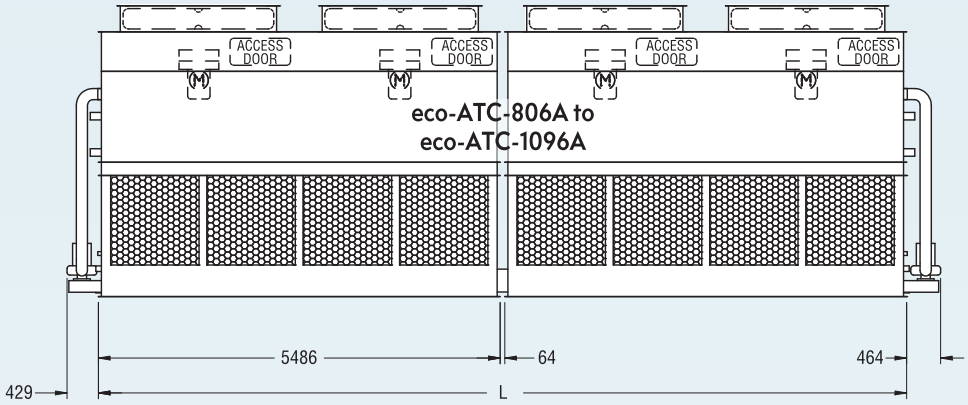


Table 4 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-806A	572	(4) 5.5	64.4	21,030	22,950	7,885	249	2113	(2) 4	100.8	1815	300	20,755	3972	2137	1835	495	11036
eco-ATC-864A	613	(4) 7.5	70.6	21,055	22,980	7,895	249	2113	(2) 4	100.8	1815	300	20,785	3972	2137	1835	495	11036
eco-ATC-896A	636	(4) 5.5	60.6	26,580	28,660	10,660	406	3457	(2) 4	100.8	1815	300	26,465	4353	2518	1835	876	11036
eco-ATC-920A	653	(4) 5.5	58.7	29,395	31,550	12,065	485	4130	(2) 4	100.8	1815	300	29,355	4543	2708	1835	1067	11036
eco-ATC-932A	661	(4) 7.5	68.6	23,775	25,780	9,260	327	2785	(2) 4	100.8	1815	300	23,585	4162	2327	1835	686	11036
eco-ATC-966A	686	(4) 7.5	66.5	26,610	28,685	10,675	406	3457	(2) 4	100.8	1815	300	26,490	4353	2518	1835	876	11036
eco-ATC-989A	702	(4) 7.5	64.4	29,420	31,580	12,080	485	4130	(2) 4	100.8	1815	300	29,385	4543	2708	1835	1067	11036
eco-ATC-1008A	715	(4) 11	76.8	24,005	26,010	9,370	327	2785	(2) 4	100.8	1815	300	23,815	4162	2327	1835	686	11036
eco-ATC-1060A	752	(4) 11	74.5	26,835	28,910	10,785	406	3457	(2) 4	100.8	1815	300	26,715	4353	2518	1835	876	11036
eco-ATC-1096A	778	(4) 11	72.2	29,645	31,805	12,195	485	4130	(2) 4	100.8	1815	300	29,610	4543	2708	1835	1067	11036

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.

** Liters 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. (300mm would normally be sufficient.)

† Heaviest section is the coil section.

*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.

Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-403A to eco-ATC-735A

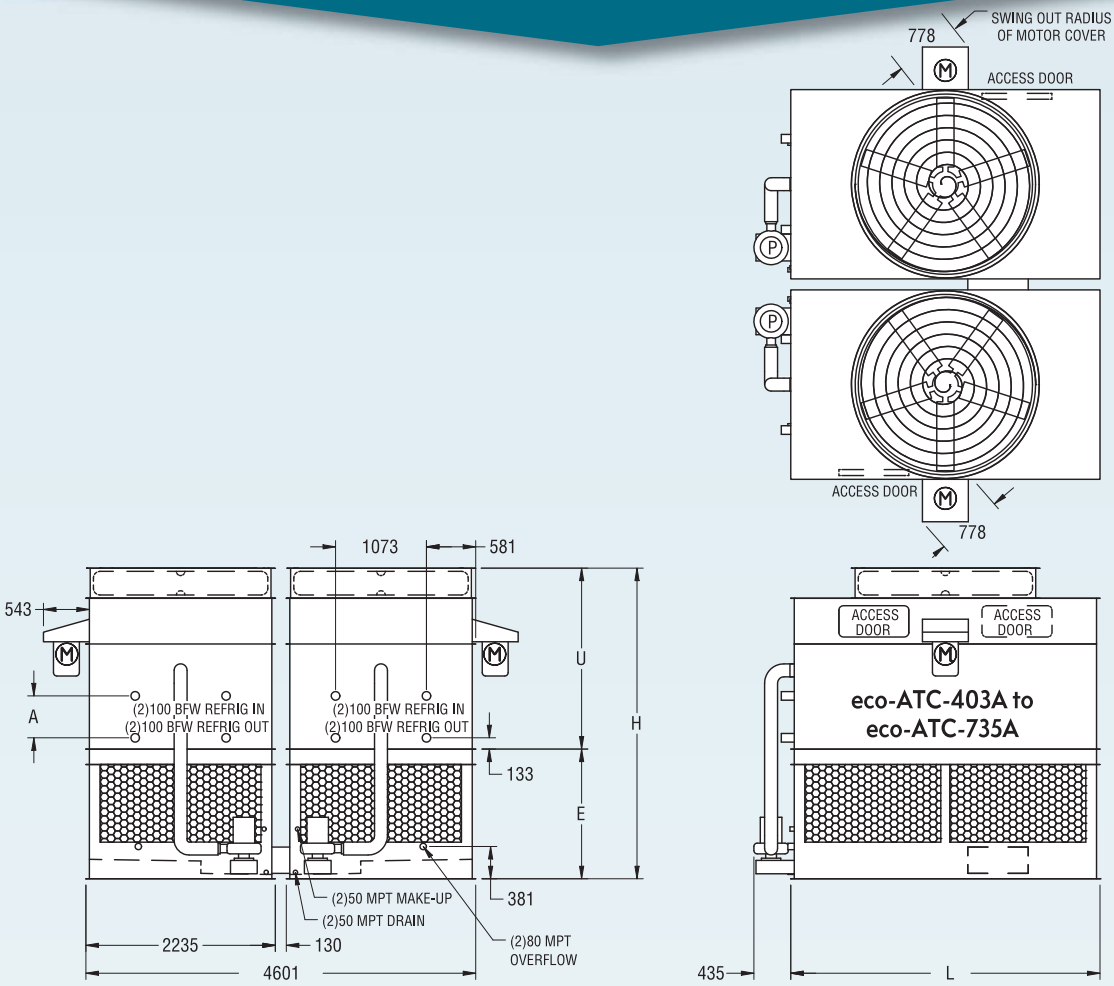


Table 5 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-403A	286	(2) 5.5	32.1	11,330	12,045	4,280	128	1090	(2) 1.5	51.6	910	200	10,950	3667	2137	1530	495	2731
eco-ATC-431A	306	(2) 7.5	35.2	11,350	12,065	4,290	128	1090	(2) 1.5	51.6	910	200	10,970	3667	2137	1530	495	2731
eco-ATC-447A	318	(2) 5.5	30.2	14,090	14,880	5,660	206	1753	(2) 1.5	51.6	910	200	13,780	4048	2518	1530	876	2731
eco-ATC-461A	327	(2) 5.5	29.3	15,520	16,355	6,380	245	2084	(2) 1.5	51.6	910	200	15,260	4239	2708	1530	1067	2731
eco-ATC-465A	330	(2) 7.5	34.2	12,690	13,445	4,960	167	1421	(2) 1.5	51.6	910	200	12,345	3858	2327	1530	686	2731
eco-ATC-485A	344	(2) 7.5	33.1	14,105	14,895	5,670	206	1753	(2) 1.5	51.6	910	200	13,800	4048	2518	1530	876	2731
eco-ATC-495A	352	(2) 7.5	32.1	15,540	16,375	6,385	245	2084	(2) 1.5	51.6	910	200	15,275	4239	2708	1530	1067	2731
eco-ATC-503A	357	(2) 11	38.3	12,800	13,555	5,015	167	1421	(2) 1.5	51.6	910	200	12,455	3858	2327	1530	686	2731
eco-ATC-529A	376	(2) 11	37.1	14,215	15,005	5,725	206	1753	(2) 1.5	51.6	910	200	13,905	4048	2518	1530	876	2731
eco-ATC-547A	388	(2) 11	36.0	15,650	16,485	6,440	245	2084	(2) 1.5	51.6	910	200	15,385	4239	2708	1530	1067	2731
eco-ATC-594A	422	(2) 11	48.6	13,800	14,985	5,255	168	1431	(2) 2.2	69.4	1175	250	13,490	3667	2137	1530	495	3651
eco-ATC-631A	448	(2) 11	47.2	15,650	16,890	6,180	220	1876	(2) 2.2	69.4	1175	250	15,395	3858	2327	1530	686	3651
eco-ATC-676A	480	(2) 11	45.8	17,445	18,740	7,075	273	2321	(2) 2.2	69.4	1175	250	17,245	4048	2518	1530	876	3651
eco-ATC-701A	498	(2) 15	49.6	17,500	18,795	7,105	273	2321	(2) 2.2	69.4	1175	250	17,300	4048	2518	1530	876	3651
eco-ATC-735A	522	(2) 15	48.1	19,370	20,710	8,040	325	2766	(2) 2.2	69.4	1175	250	19,215	4239	2708	1530	1067	3651

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.

** Liters 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. (300mm would normally be sufficient.)

† Heaviest section is the coil section.

*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.

Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-805A to eco-ATC-1095A

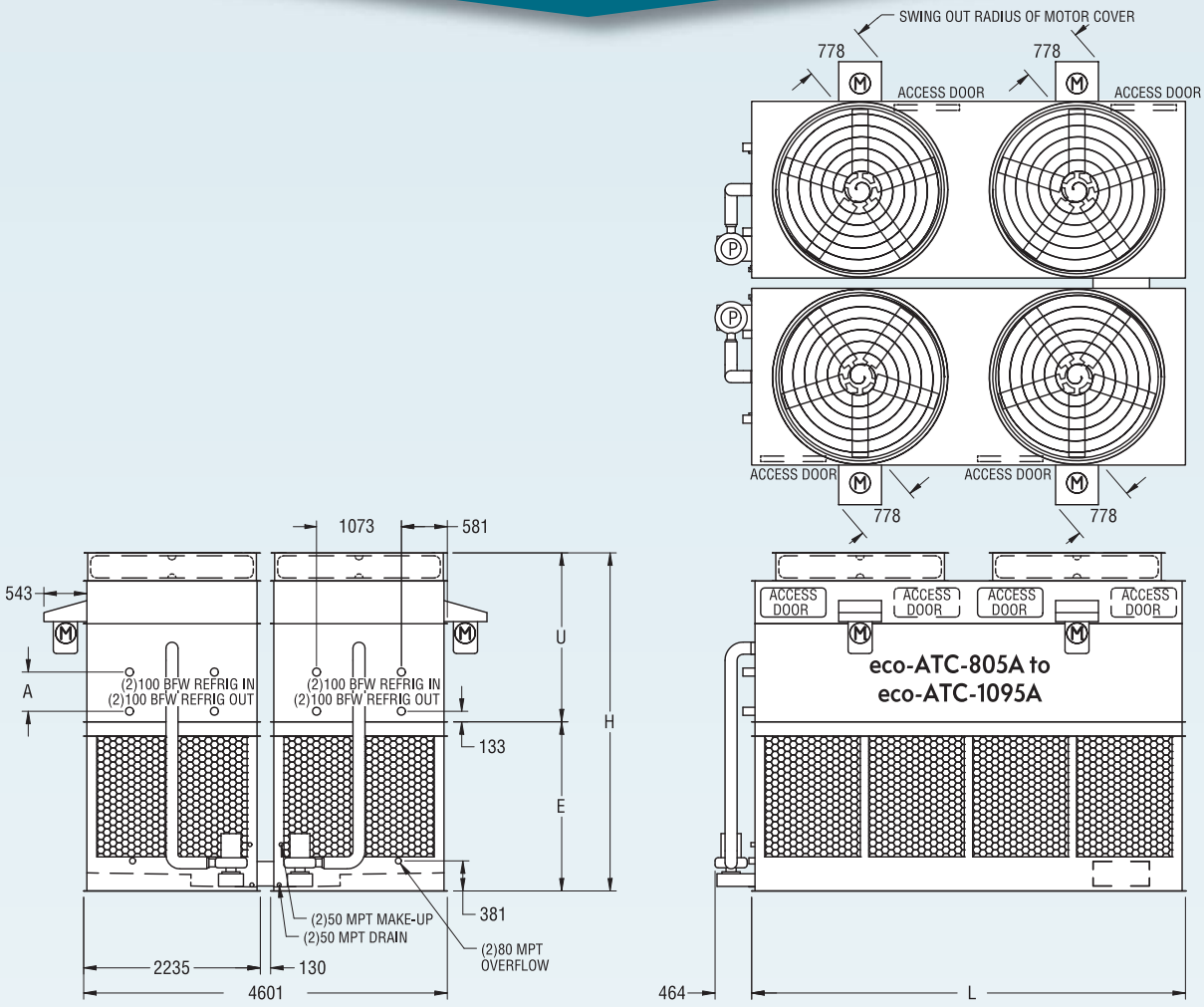


Table 6 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-805A	571	(4) 5.5	64.4	21,030	22,950	7,885	249	2113	(2) 4	100.8	1815	300	20,755	4277	2137	2140	495	5486
eco-ATC-861A	611	(4) 7.5	70.6	21,055	22,980	7,895	249	2113	(2) 4	100.8	1815	300	20,785	4277	2137	2140	495	5486
eco-ATC-895A	635	(4) 5.5	60.6	26,580	28,660	10,660	406	3457	(2) 4	100.8	1815	300	26,465	4658	2518	2140	876	5486
eco-ATC-917A	651	(4) 5.5	58.7	29,395	31,550	12,065	485	4130	(2) 4	100.8	1815	300	29,355	4848	2708	2140	1067	5486
eco-ATC-931A	661	(4) 7.5	68.6	23,775	25,780	9,260	327	2785	(2) 4	100.8	1815	300	23,585	4467	2327	2140	686	5486
eco-ATC-967A	686	(4) 7.5	66.5	26,610	28,685	10,675	406	3457	(2) 4	100.8	1815	300	26,490	4658	2518	2140	876	5486
eco-ATC-987A	700	(4) 7.5	64.4	29,420	31,580	12,080	485	4130	(2) 4	100.8	1815	300	29,385	4848	2708	2140	1067	5486
eco-ATC-1007A	715	(4) 11	76.8	24,005	26,010	9,370	327	2785	(2) 4	100.8	1815	300	23,815	4467	2327	2140	686	5486
eco-ATC-1059A	752	(4) 11	74.5	26,835	28,910	10,785	406	3457	(2) 4	100.8	1815	300	26,715	4658	2518	2140	876	5486
eco-ATC-1095A	777	(4) 11	72.2	29,645	31,805	12,195	485	4130	(2) 4	100.8	1815	300	29,610	4848	2708	2140	1067	5486

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.
** Liters 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. (300mm would normally be sufficient.)
† Heaviest section is the coil section.
*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.
Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-122A to eco-ATC-263A

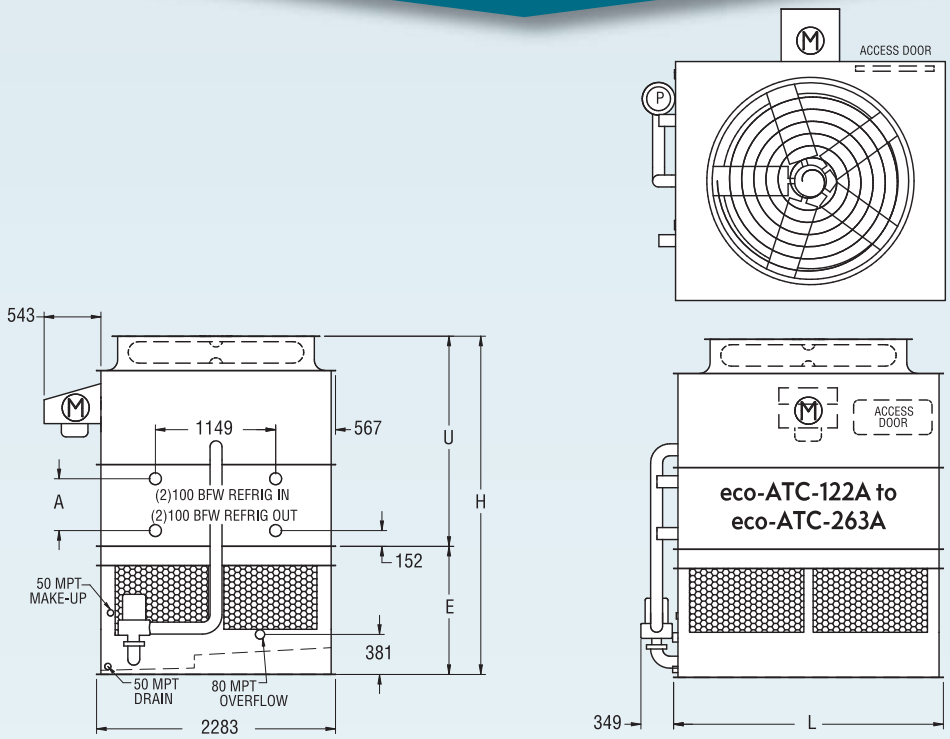


Table 7 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-122A	87	2.2	12.5	3,055	4,150	2,465	44	377	1.5	21.4	830	200	3,650	3042	1816	1226	305	2578
eco-ATC-138A	98	4	14.8	3,060	4,155	2,470	44	377	1.5	21.4	830	200	3,655	3042	1816	1226	305	2578
eco-ATC-152A	108	5.5	16.9	3,085	4,180	2,495	44	377	1.5	21.4	830	200	3,680	3042	1816	1226	305	2578
eco-ATC-162A	115	7.5	18.6	3,090	4,180	2,500	44	377	1.5	21.4	830	200	3,685	3042	1816	1226	305	2578
eco-ATC-168A	120	4	14.4	3,620	4,750	3,030	64	542	1.5	21.4	830	200	4,250	3232	2007	1226	495	2578
eco-ATC-180A	128	2.2	11.5	4,870	6,080	4,280	103	872	1.5	21.4	830	200	5,580	3613	2388	1226	876	2578
eco-ATC-186A	132	5.5	16.5	3,640	4,770	3,055	64	542	1.5	21.4	830	200	4,275	3232	2007	1226	495	2578
eco-ATC-191A	136	4	14.0	4,225	5,400	3,640	83	707	1.5	21.4	830	200	4,900	3423	2197	1226	686	2578
eco-ATC-198A	141	7.5	18.1	3,645	4,775	3,055	64	542	1.5	21.4	830	200	4,275	3232	2007	1226	495	2578
eco-ATC-203A	144	4	13.6	4,875	6,085	4,285	103	872	1.5	21.4	830	200	5,585	3613	2388	1226	876	2578
eco-ATC-210A	149	5.5	16.0	4,250	5,420	3,660	83	707	1.5	21.4	830	200	4,920	3423	2197	1226	686	2578
eco-ATC-223A	159	7.5	17.6	4,255	5,425	3,665	83	707	1.5	21.4	830	200	4,925	3423	2197	1226	686	2578
eco-ATC-229A	163	5.5	15.1	5,540	6,780	4,950	122	1038	1.5	21.4	830	200	6,280	3804	2578	1226	1067	2578
eco-ATC-238A	169	7.5	17.0	4,905	6,110	4,315	103	872	1.5	21.4	830	200	5,610	3613	2388	1226	876	2578
eco-ATC-243A	173	7.5	16.5	5,545	6,785	4,955	122	1038	1.5	21.4	830	200	6,285	3804	2578	1226	1067	2578
eco-ATC-257A	183	11	19.1	4,960	6,170	4,375	103	872	1.5	21.4	830	200	5,670	3613	2388	1226	876	2578
eco-ATC-263A	187	11	18.5	5,600	6,845	5,010	122	1038	1.5	21.4	830	200	6,345	3804	2578	1226	1067	2578

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.
** Liters 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. (300mm would normally be sufficient.)
† Heaviest section is the coil section.
*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.
Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-160A to eco-ATC-326A

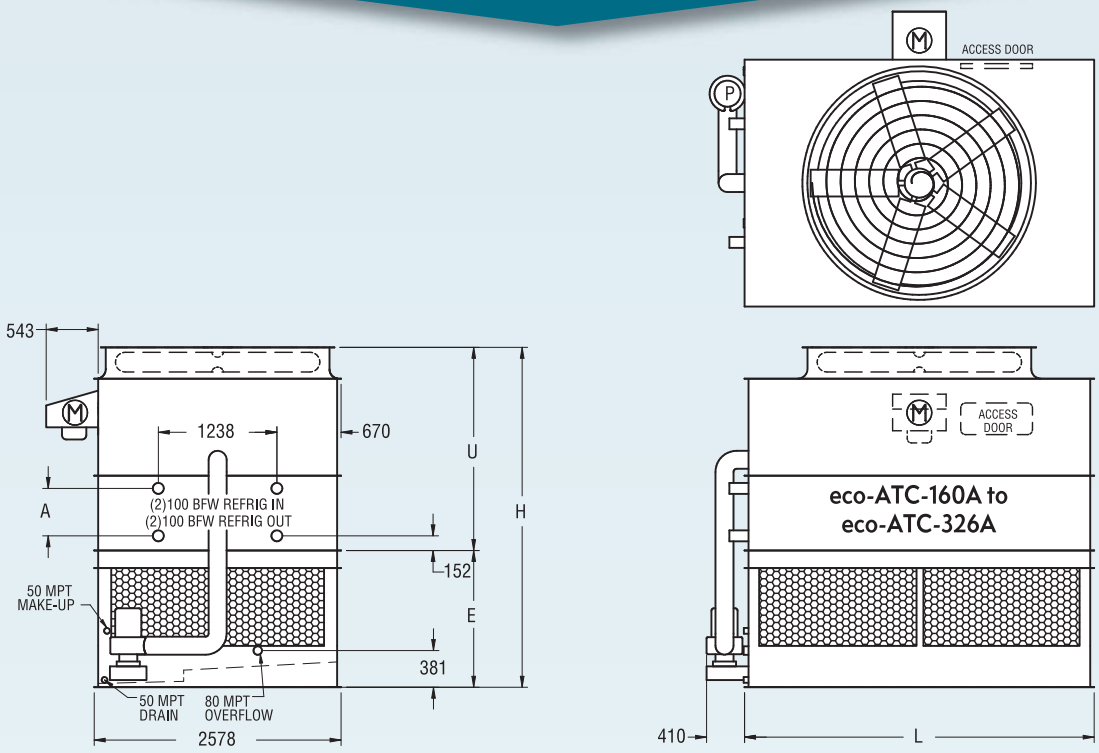


Table 8 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-160A	114	4	16.5	3,565	4,850	2,910	51	433	1.5	25.9	950	200	4,270	3248	1930	1318	305	2731
eco-ATC-177A	126	5.5	18.9	3,590	4,870	2,935	51	433	1.5	25.9	950	200	4,290	3248	1930	1318	305	2731
eco-ATC-206A	147	11	23.8	3,650	4,935	3,000	51	433	1.5	25.9	950	200	4,355	3248	1930	1318	305	2731
eco-ATC-216A	154	5.5	18.6	4,290	5,620	3,640	73	623	1.5	25.9	950	200	5,040	3439	2121	1318	495	2731
eco-ATC-222A	158	4	15.8	5,000	6,370	4,345	95	812	1.5	25.9	950	200	5,790	3629	2311	1318	686	2731
eco-ATC-232A	165	7.5	20.5	4,295	5,625	3,640	73	623	1.5	25.9	950	200	5,045	3439	2121	1318	495	2731
eco-ATC-237A	169	4	15.3	5,780	7,190	5,125	118	1001	1.5	25.9	950	200	6,610	3820	2502	1318	876	2731
eco-ATC-252A	179	11	23.1	4,355	5,685	3,700	73	623	1.5	25.9	950	200	5,105	3439	2121	1318	495	2731
eco-ATC-262A	186	7.5	19.9	5,025	6,395	4,375	95	812	1.5	25.9	950	200	5,815	3629	2311	1318	686	2731
eco-ATC-266A	189	5.5	17.0	6,565	8,020	5,910	140	1191	1.5	25.9	950	200	7,440	4010	2692	1318	1067	2731
eco-ATC-278A	198	7.5	19.3	5,805	7,215	5,155	118	1001	1.5	25.9	950	200	6,635	3820	2502	1318	876	2731
eco-ATC-283A	201	11	22.4	5,085	6,455	4,430	95	812	1.5	25.9	950	200	5,875	3629	2311	1318	686	2731
eco-ATC-285A	203	7.5	18.7	6,570	8,025	5,915	140	1191	1.5	25.9	950	200	7,445	4010	2692	1318	1067	2731
eco-ATC-303A	215	11	21.8	5,865	7,275	5,210	118	1001	1.5	25.9	950	200	6,695	3820	2502	1318	876	2731
eco-ATC-309A	220	11	21.0	6,625	8,085	5,975	140	1191	1.5	25.9	950	200	7,500	4010	2692	1318	1067	2731
eco-ATC-326A	232	15	22.8	6,655	8,110	6,000	140	1191	1.5	25.9	950	200	7,530	4010	2692	1318	1067	2731

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.

** Liters 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. (300mm would normally be sufficient.)

† Heaviest section is the coil section.

*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.
Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-205A to eco-ATC-394A

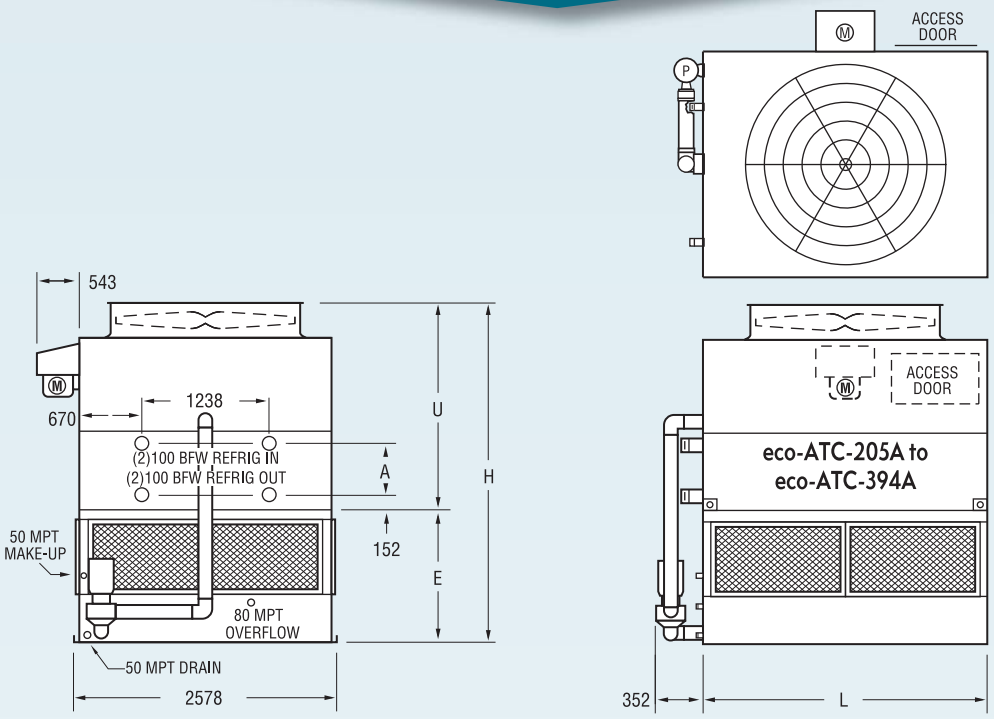


Table 9 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-205A	146	5.5	21.1	4,135	5,650	3,395	59	498	2.2	31.5	1100	250	4,965	3248	1930	1318	305	3188
eco-ATC-219A	156	7.5	23.2	4,145	5,660	3,400	59	498	2.2	31.5	1100	250	4,975	3248	1930	1318	305	3188
eco-ATC-239A	170	11	26.6	4,200	5,715	3,455	59	498	2.2	31.5	1100	250	5,030	3248	1930	1318	305	3188
eco-ATC-251A	179	5.5	20.7	4,950	6,515	4,205	85	720	2.2	31.5	1100	250	5,830	3439	2121	1318	495	3188
eco-ATC-268A	191	7.5	22.7	4,960	6,525	4,215	85	720	2.2	31.5	1100	250	5,840	3439	2121	1318	495	3188
eco-ATC-293A	208	11	25.8	5,010	6,575	4,270	85	720	2.2	31.5	1100	250	5,890	3439	2121	1318	495	3188
eco-ATC-301A	214	7.5	22.1	5,805	7,420	5,060	111	942	2.2	31.5	1100	250	6,735	3629	2311	1318	686	3188
eco-ATC-308A	219	5.5	18.9	7,600	9,310	6,855	163	1386	2.2	31.5	1100	250	8,625	4010	2692	1318	1067	3188
eco-ATC-321A	228	7.5	21.4	6,720	8,385	5,980	137	1164	2.2	31.5	1100	250	7,700	3820	2502	1318	876	3188
eco-ATC-331A	235	11	25.1	5,860	7,475	5,115	111	942	2.2	31.5	1100	250	6,790	3629	2311	1318	686	3188
eco-ATC-351A	249	11	24.3	6,775	8,440	6,035	137	1164	2.2	31.5	1100	250	7,755	3820	2502	1318	876	3188
eco-ATC-358A	254	11	23.6	7,660	9,375	6,915	163	1386	2.2	31.5	1100	250	8,690	4010	2692	1318	1067	3188
eco-ATC-371A	264	15	26.4	6,805	8,470	6,060	137	1164	2.2	31.5	1100	250	7,785	3820	2502	1318	876	3188
eco-ATC-377A	268	15	25.5	7,690	9,405	6,945	163	1386	2.2	31.5	1100	250	8,720	4010	2692	1318	1067	3188
eco-ATC-394A	280	18.5	27.2	7,700	9,415	6,960	163	1386	2.2	31.5	1100	250	8,730	4010	2692	1318	1067	3188

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.

** Liters 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. (300mm would normally be sufficient.)

† Heaviest section is the coil section.

*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.
Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-225A to eco-ATC-434A

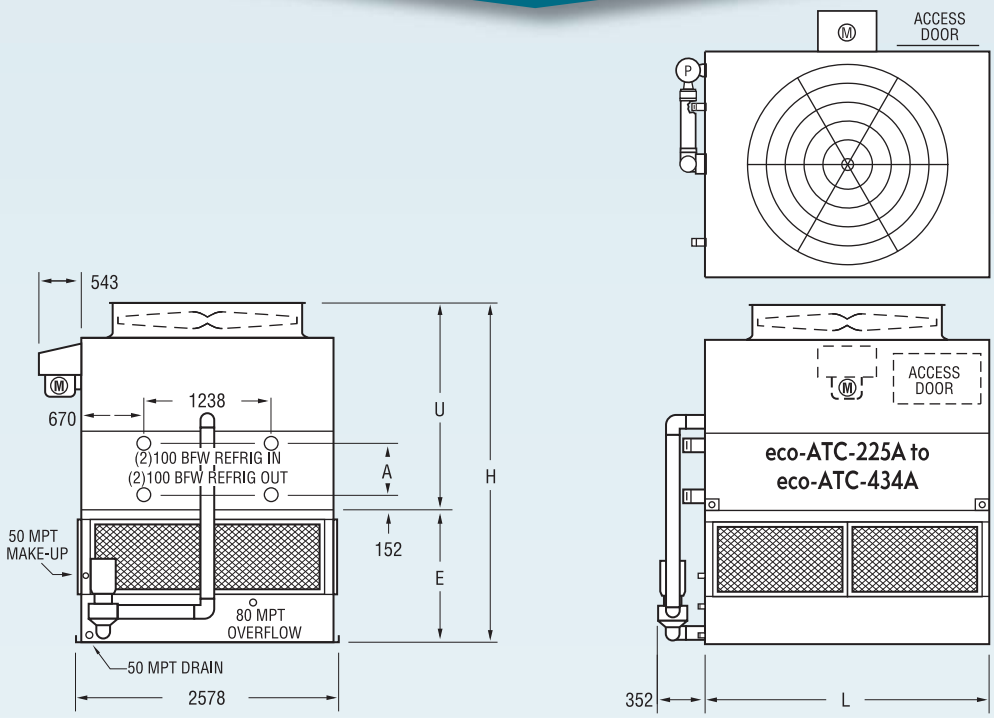


Table 10 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-225A	160	5.5	22.9	4,405	6,180	3,555	66	563	4	36.0	1250	250	5,375	3359	1930	1429	305	3651
eco-ATC-264A	188	11	28.8	4,470	6,245	3,620	66	563	4	36.0	1250	250	5,440	3359	1930	1429	305	3651
eco-ATC-275A	196	5.5	22.7	5,390	7,220	4,540	96	817	4	36.0	1250	250	6,415	3550	2121	1429	495	3651
eco-ATC-310A	220	5.5	22.0	6,380	8,275	5,535	126	1072	4	36.0	1250	250	7,465	3740	2311	1429	686	3651
eco-ATC-324A	230	11	28.5	5,450	7,285	4,605	96	817	4	36.0	1250	250	6,475	3550	2121	1429	495	3651
eco-ATC-329A	234	5.5	21.3	7,365	9,315	6,520	156	1326	4	36.0	1250	250	8,510	3931	2502	1429	876	3651
eco-ATC-332A	236	7.5	24.2	6,385	8,280	5,540	126	1072	4	36.0	1250	250	7,470	3740	2311	1429	686	3651
eco-ATC-342A	243	15	30.8	5,480	7,310	4,630	96	817	4	36.0	1250	250	6,505	3550	2121	1429	495	3651
eco-ATC-359A	255	7.5	22.7	8,385	10,390	7,540	186	1581	4	36.0	1250	250	9,585	4121	2692	1429	1067	3651
eco-ATC-364A	259	11	27.6	6,445	8,335	5,595	126	1072	4	36.0	1250	250	7,530	3740	2311	1429	686	3651
eco-ATC-384A	273	15	30.0	6,475	8,365	5,625	126	1072	4	36.0	1250	250	7,555	3740	2311	1429	686	3651
eco-ATC-396A	281	11	26.0	8,445	10,450	7,600	186	1581	4	36.0	1250	250	9,645	4121	2692	1429	1067	3651
eco-ATC-410A	291	15	29.0	7,455	9,405	6,610	156	1326	4	36.0	1250	250	8,600	3931	2502	1429	876	3651
eco-ATC-426A	303	18.5	30.9	7,470	9,420	6,620	156	1326	4	36.0	1250	250	8,615	3931	2502	1429	876	3651
eco-ATC-434A	308	18.5	30.0	8,485	10,490	7,640	186	1581	4	36.0	1250	250	9,685	4121	2692	1429	1067	3651

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.
** Liters 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. (300mm would normally be sufficient.)
† Heaviest section is the coil section.
*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.
Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-269A to eco-ATC-504A

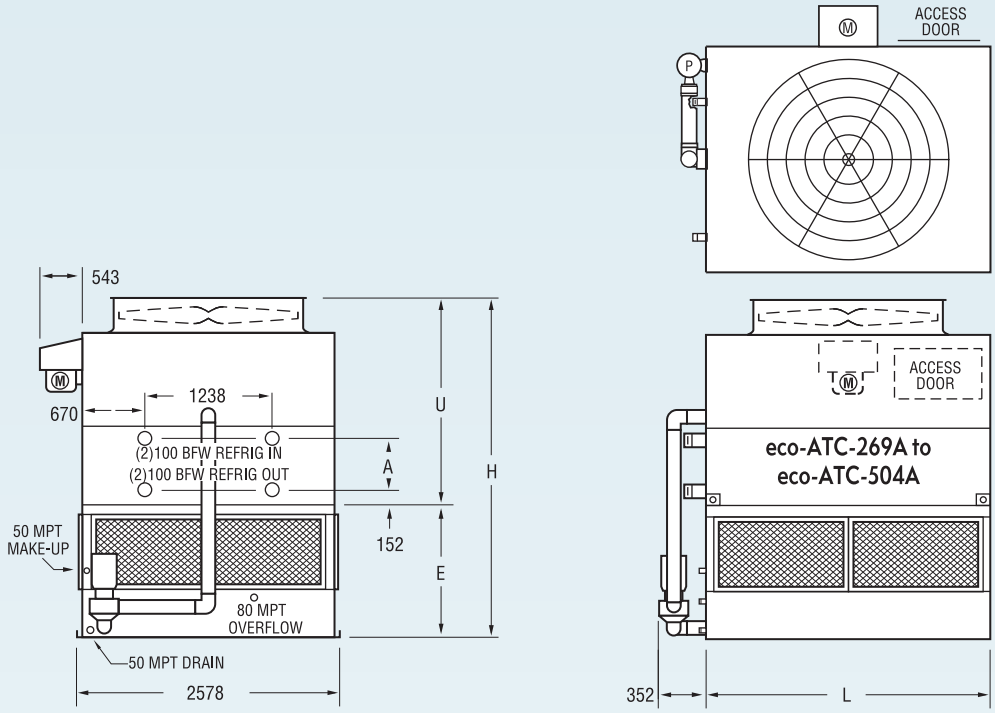
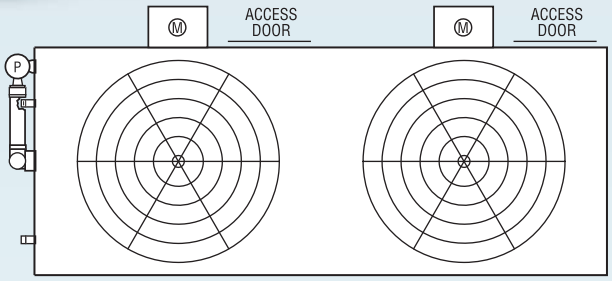


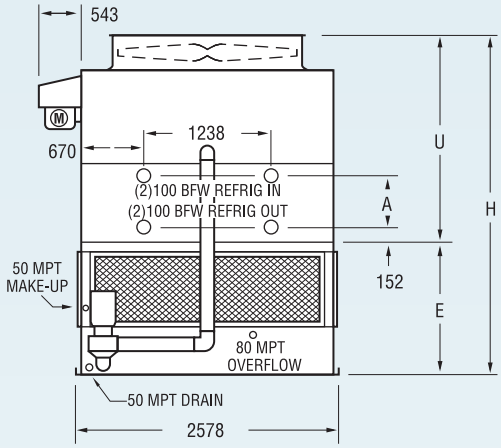
Table 11 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-269A	191	7.5	28.1	4,975	7,040	4,030	76	650	4	41.0	1440	250	6,120	3359	1930	1429	305	4261
eco-ATC-295A	210	11	32.2	5,035	7,100	4,090	76	650	4	41.0	1440	250	6,180	3359	1930	1429	305	4261
eco-ATC-313A	222	15	35.4	5,060	7,125	4,120	76	650	4	41.0	1440	250	6,205	3359	1930	1429	305	4261
eco-ATC-330A	235	7.5	27.6	6,125	8,255	5,180	111	947	4	41.0	1440	250	7,335	3550	2121	1429	495	4261
eco-ATC-372A	264	7.5	26.8	7,270	9,465	6,330	146	1245	4	41.0	1440	250	8,545	3740	2311	1429	686	4261
eco-ATC-401A	285	7.5	25.2	9,605	11,935	8,660	216	1840	4	41.0	1440	250	11,015	4121	2692	1429	1067	4261
eco-ATC-438A	311	11	28.8	9,660	11,995	8,720	216	1840	4	41.0	1440	250	11,070	4121	2692	1429	1067	4261
eco-ATC-449A	319	18.5	35.6	7,370	9,565	6,425	146	1245	4	41.0	1440	250	8,645	3740	2311	1429	686	4261
eco-ATC-458A	325	15	32.5	8,510	10,775	7,565	181	1543	4	41.0	1440	250	9,850	3931	2502	1429	876	4261
eco-ATC-467A	332	15	31.4	9,690	12,020	8,745	216	1840	4	41.0	1440	250	11,100	4121	2692	1429	1067	4261
eco-ATC-478A	340	18.5	34.6	8,525	10,785	7,580	181	1543	4	41.0	1440	250	9,865	3931	2502	1429	876	4261
eco-ATC-504A	358	22	35.3	9,725	12,055	8,780	216	1840	4	41.0	1440	250	11,135	4121	2692	1429	1067	4261

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.
** Liters 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. (300mm would normally be sufficient.)
† Heaviest section is the coil section.
*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.
Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-395A to eco-ATC-671A





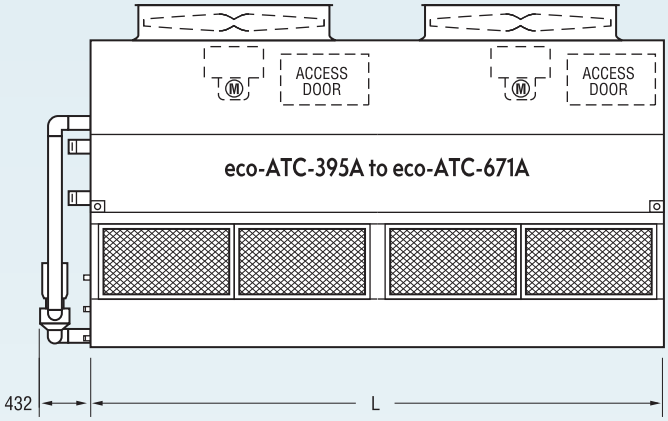


Table 12 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-395A	281	(2) 7.5	41.7	6,705	9,385	5,440	97	823	4	50.5	1930	300	8,230	3626	2096	1530	470	5486
eco-ATC-428A	304	(2) 11	47.7	6,815	9,500	5,550	97	823	4	50.5	1930	300	8,340	3626	2096	1530	470	5486
eco-ATC-483A	343	(2) 7.5	41.2	8,180	10,950	6,915	142	1207	4	50.5	1930	300	9,795	3651	2121	1530	495	5486
eco-ATC-488A	347	(2) 4	30.8	11,075	14,020	9,810	232	1976	4	50.5	1930	300	12,865	4032	2502	1530	876	5486
eco-ATC-497A	353	(2) 4	29.8	12,605	15,635	11,340	277	2360	4	50.5	1930	300	14,480	4223	2692	1530	1067	5486
eco-ATC-509A	361	(2) 5.5	36.3	9,660	12,520	8,395	187	1591	4	50.5	1930	300	11,360	3842	2311	1530	686	5486
eco-ATC-525A	373	(2) 11	46.3	8,290	11,065	7,025	142	1207	4	50.5	1930	300	9,905	3651	2121	1530	495	5486
eco-ATC-537A	381	(2) 5.5	35.3	11,120	14,065	9,855	232	1976	4	50.5	1930	300	12,910	4032	2502	1530	876	5486
eco-ATC-546A	388	(2) 7.5	40.0	9,675	12,535	8,410	187	1591	4	50.5	1930	300	11,375	3842	2311	1530	686	5486
eco-ATC-576A	409	(2) 7.5	38.7	11,135	14,080	9,870	232	1976	4	50.5	1930	300	12,925	4032	2502	1530	876	5486
eco-ATC-592A	420	(2) 11	45.0	9,790	12,645	8,525	187	1591	4	50.5	1930	300	11,490	3842	2311	1530	686	5486
eco-ATC-626A	444	(2) 11	43.7	11,250	14,195	9,985	232	1976	4	50.5	1930	300	13,035	4032	2502	1530	876	5486
eco-ATC-636A	452	(2) 11	42.2	12,780	15,810	11,510	277	2360	4	50.5	1930	300	14,650	4223	2692	1530	1067	5486
eco-ATC-671A	476	(2) 15	45.8	12,830	15,860	11,565	277	2360	4	50.5	1930	300	14,705	4223	2692	1530	1067	5486

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.

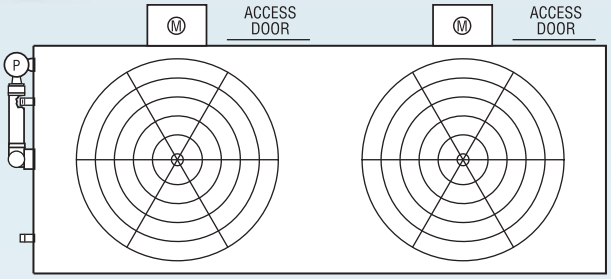
** Liters shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation. (300mm would normally be sufficient.)

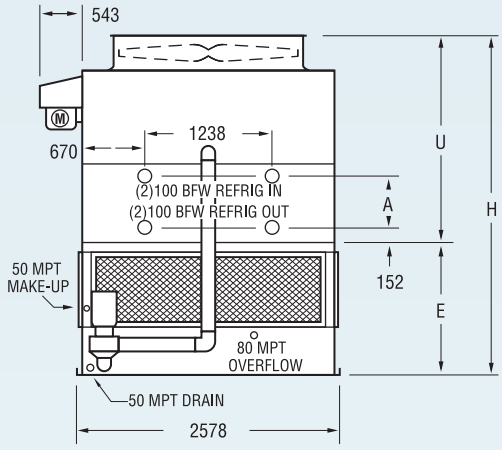
† Heaviest section is the coil section.

*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.

Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-451A to eco-ATC-804A





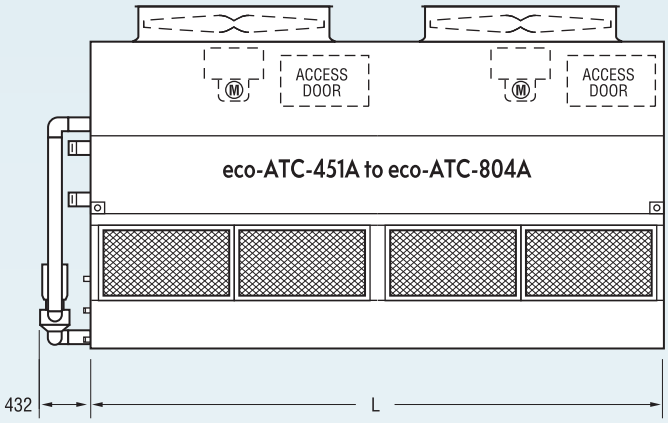


Table 13 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-451A	320	(2) 7.5	44.1	7,705	10,880	6,300	112	953	5.5	66.2	2230	300	9,535	3461	1930	1530	305	6401
eco-ATC-492A	349	(2) 11	50.5	7,820	10,995	6,415	112	953	5.5	66.2	2230	300	9,650	3461	1930	1530	305	6401
eco-ATC-518A	368	(2) 5.5	41.5	9,310	12,585	7,900	165	1402	5.5	66.2	2230	300	11,235	3651	2121	1530	495	6401
eco-ATC-551A	391	(2) 7.5	45.6	9,320	12,595	7,915	165	1402	5.5	66.2	2230	300	11,250	3651	2121	1530	495	6401
eco-ATC-586A	416	(2) 5.5	40.3	11,055	14,435	9,650	218	1851	5.5	66.2	2230	300	13,085	3842	2311	1530	686	6401
eco-ATC-604A	429	(2) 11	49.1	9,435	12,710	8,030	165	1402	5.5	66.2	2230	300	11,360	3651	2121	1530	495	6401
eco-ATC-624A	443	(2) 7.5	44.3	11,070	14,445	9,660	218	1851	5.5	66.2	2230	300	13,100	3842	2311	1530	686	6401
eco-ATC-658A	467	(2) 7.5	43.0	12,770	16,250	11,360	270	2300	5.5	66.2	2230	300	14,900	4032	2502	1530	876	6401
eco-ATC-669A	475	(2) 7.5	41.6	14,540	18,120	13,135	323	2750	5.5	66.2	2230	300	16,775	4223	2692	1530	1067	6401
eco-ATC-684A	486	(2) 11	47.8	11,180	14,560	9,775	218	1851	5.5	66.2	2230	300	13,215	3842	2311	1530	686	6401
eco-ATC-720A	511	(2) 11	46.3	12,880	16,360	11,475	270	2300	5.5	66.2	2230	300	15,015	4032	2502	1530	876	6401
eco-ATC-732A	520	(2) 11	44.9	14,655	18,235	13,250	323	2750	5.5	66.2	2230	300	16,885	4223	2692	1530	1067	6401
eco-ATC-758A	538	(2) 15	48.8	12,935	16,415	11,530	270	2300	5.5	66.2	2230	300	15,070	4032	2502	1530	876	6401
eco-ATC-772A	548	(2) 15	47.2	14,710	18,290	13,305	323	2750	5.5	66.2	2230	300	16,940	4223	2692	1530	1067	6401
eco-ATC-804A	571	(2) 18.5	51.3	14,735	18,315	13,330	323	2750	5.5	66.2	2230	300	16,970	4223	2692	1530	1067	6401

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.
** Liters 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. (300mm would normally be sufficient.)
† Heaviest section is the coil section.
*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.
Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-444A to eco-ATC-862A

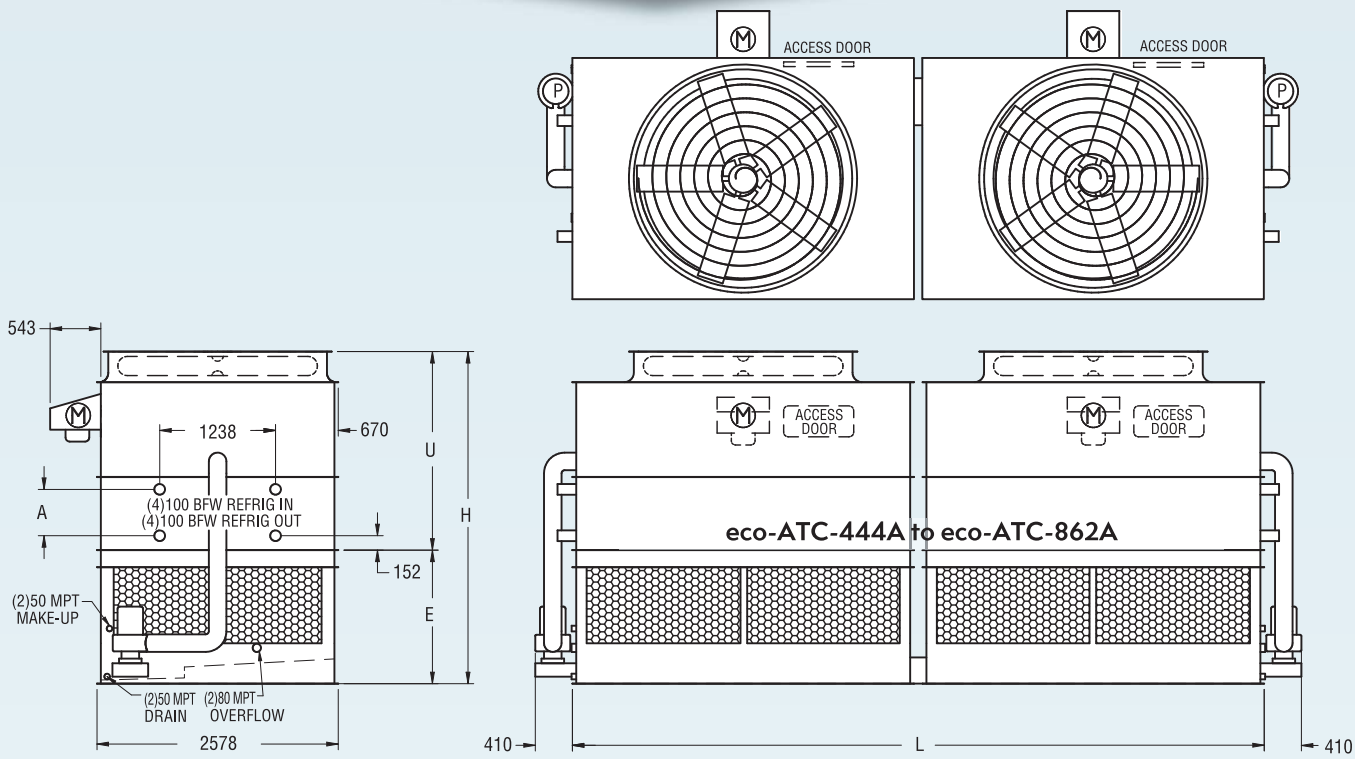


Table 14 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-444A	315	(2) 5.5	45.5	8,810	12,365	3,555	132	1126	(2) 4	71.9	2500	(2) 250	10,750	3461	1930	1530	305	7366
eco-ATC-474A	337	(2) 7.5	50.1	8,820	12,375	3,560	132	1126	(2) 4	71.9	2500	(2) 250	10,760	3461	1930	1530	305	7366
eco-ATC-523A	371	(2) 11	57.3	8,935	12,490	3,620	132	1126	(2) 4	71.9	2500	(2) 250	10,875	3461	1930	1530	305	7366
eco-ATC-545A	387	(2) 5.5	45.0	10,775	14,440	4,540	192	1635	(2) 4	71.9	2500	(2) 250	12,830	3651	2121	1530	495	7366
eco-ATC-552A	392	(2) 15	63.1	8,990	12,545	3,645	132	1126	(2) 4	71.9	2500	(2) 250	10,930	3461	1930	1530	305	7366
eco-ATC-581A	413	(2) 7.5	49.6	10,785	14,450	4,545	192	1635	(2) 4	71.9	2500	(2) 250	12,835	3651	2121	1530	495	7366
eco-ATC-641A	455	(2) 11	56.6	10,905	14,570	4,605	192	1635	(2) 4	71.9	2500	(2) 250	12,955	3651	2121	1530	495	7366
eco-ATC-654A	464	(2) 7.5	48.1	12,775	16,555	5,540	252	2144	(2) 4	71.9	2500	(2) 250	14,940	3842	2311	1530	686	7366
eco-ATC-664A	471	(2) 5.5	41.1	16,765	20,775	7,535	372	3161	(2) 4	71.9	2500	(2) 250	19,160	4223	2692	1530	1067	7366
eco-ATC-677A	481	(2) 15	61.4	10,960	14,625	4,630	192	1635	(2) 4	71.9	2500	(2) 250	13,010	3651	2121	1530	495	7366
eco-ATC-698A	496	(2) 7.5	46.7	14,740	18,645	6,525	312	2652	(2) 4	71.9	2500	(2) 250	17,030	4032	2502	1530	876	7366
eco-ATC-768A	545	(2) 11	53.3	14,860	18,760	6,580	312	2652	(2) 4	71.9	2500	(2) 250	17,145	4032	2502	1530	876	7366
eco-ATC-782A	555	(2) 11	51.7	16,890	20,900	7,600	372	3161	(2) 4	71.9	2500	(2) 250	19,285	4223	2692	1530	1067	7366
eco-ATC-812A	576	(2) 15	57.8	14,915	18,815	6,610	312	2652	(2) 4	71.9	2500	(2) 250	17,200	4032	2502	1530	876	7366
eco-ATC-827A	587	(2) 15	56.1	16,945	20,955	7,625	372	3161	(2) 4	71.9	2500	(2) 250	19,340	4223	2692	1530	1067	7366
eco-ATC-846A	600	(2) 18.5	61.5	14,940	18,840	6,620	312	2652	(2) 4	71.9	2500	(2) 250	17,225	4032	2502	1530	876	7366
eco-ATC-862A	612	(2) 18.5	59.6	16,975	20,985	7,640	372	3161	(2) 4	71.9	2500	(2) 250	19,370	4223	2692	1530	1067	7366

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.

** Liters 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. (300mm would normally be sufficient.)

† Heaviest section is the coil section.

*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.
Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-590A to eco-ATC-1013A

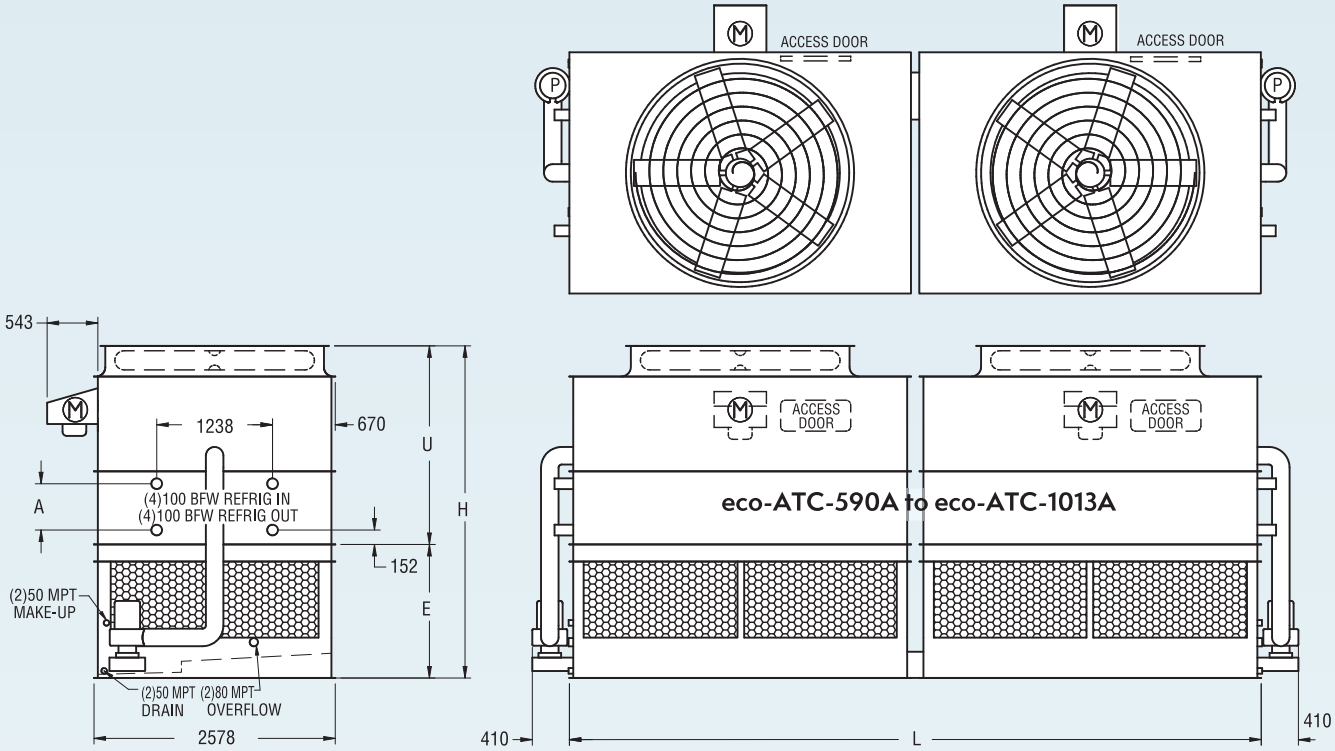


Table 15 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-590A	419	(2) 11	65.0	10,070	14,195	4,090	153	1299	(2) 4	82.0	2880	(2) 250	12,355	3613	1930	1683	305	8585
eco-ATC-663A	471	(2) 7.5	55.8	12,245	16,510	5,180	223	1895	(2) 4	82.0	2880	(2) 250	14,670	3804	2121	1683	495	8585
eco-ATC-723A	513	(2) 11	63.9	12,365	16,630	5,240	223	1895	(2) 4	82.0	2880	(2) 250	14,785	3804	2121	1683	495	8585
eco-ATC-749A	532	(2) 7.5	54.1	14,540	18,935	6,330	293	2490	(2) 4	82.0	2880	(2) 250	17,090	3994	2311	1683	686	8585
eco-ATC-769A	546	(2) 15	69.6	12,420	16,685	5,265	223	1895	(2) 4	82.0	2880	(2) 250	14,840	3804	2121	1683	495	8585
eco-ATC-793A	563	(2) 7.5	52.5	16,845	21,375	7,480	363	3085	(2) 4	82.0	2880	(2) 250	19,530	4185	2502	1683	876	8585
eco-ATC-807A	573	(2) 7.5	50.9	19,205	23,870	8,660	433	3681	(2) 4	82.0	2880	(2) 250	22,025	4375	2692	1683	1067	8585
eco-ATC-817A	580	(2) 11	61.9	14,660	19,050	6,385	293	2490	(2) 4	82.0	2880	(2) 250	17,210	3994	2311	1683	686	8585
eco-ATC-868A	616	(2) 15	67.7	14,715	19,105	6,415	293	2490	(2) 4	82.0	2880	(2) 250	17,265	3994	2311	1683	686	8585
eco-ATC-882A	626	(2) 11	58.3	19,325	23,985	8,720	433	3681	(2) 4	82.0	2880	(2) 250	22,145	4375	2692	1683	1067	8585
eco-ATC-907A	644	(2) 18.5	72.0	14,740	19,130	6,425	293	2490	(2) 4	82.0	2880	(2) 250	17,290	3994	2311	1683	686	8585
eco-ATC-921A	654	(2) 15	65.6	17,020	21,545	7,565	363	3085	(2) 4	82.0	2880	(2) 250	19,705	4185	2502	1683	876	8585
eco-ATC-938A	666	(2) 15	63.5	19,375	24,040	8,745	433	3681	(2) 4	82.0	2880	(2) 250	22,200	4375	2692	1683	1067	8585
eco-ATC-960A	681	(2) 18.5	69.8	17,045	21,575	7,580	363	3085	(2) 4	82.0	2880	(2) 250	19,730	4185	2502	1683	876	8585
eco-ATC-978A	694	(2) 18.5	67.7	19,405	24,065	8,760	433	3681	(2) 4	82.0	2880	(2) 250	22,225	4375	2692	1683	1067	8585
eco-ATC-1013A	719	(2) 22	71.2	19,450	24,115	8,780	433	3681	(2) 4	82.0	2880	(2) 250	22,270	4375	2692	1683	1067	8585

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.
** Liters 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. (300mm would normally be sufficient.)
† Heaviest section is the coil section.
*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.
Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-441A to eco-ATC-857A

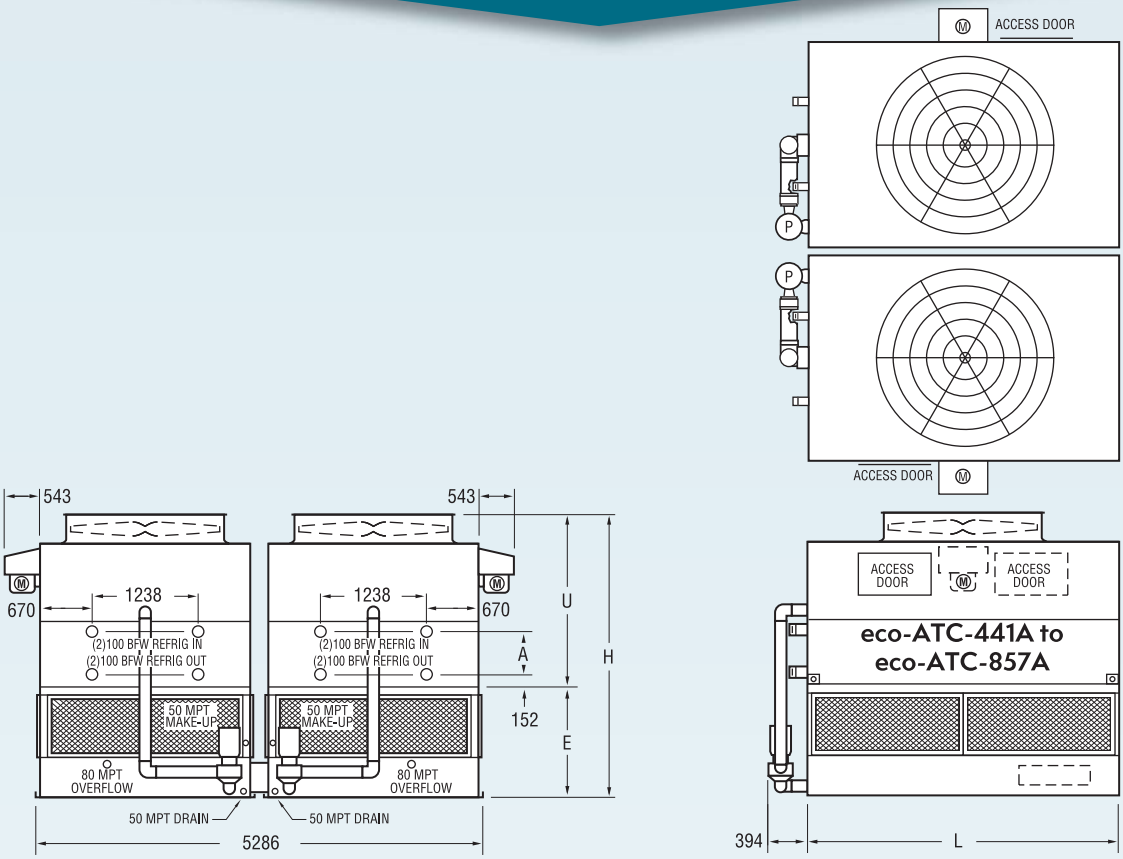


Table 16 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-441A	313	(2) 5.5	45.3	8,810	12,365	3,555	132	1126	(2) 4	71.9	2500	(2) 250	10,750	3461	1930	1530	305	3651
eco-ATC-473A	336	(2) 7.5	49.8	8,820	12,375	3,560	132	1126	(2) 4	71.9	2500	(2) 250	10,760	3461	1930	1530	305	3651
eco-ATC-542A	385	(2) 5.5	44.8	10,775	14,440	4,540	192	1635	(2) 4	71.9	2500	(2) 250	12,830	3651	2121	1530	495	3651
eco-ATC-550A	391	(2) 15	62.8	8,990	12,545	3,645	132	1126	(2) 4	71.9	2500	(2) 250	10,930	3461	1930	1530	305	3651
eco-ATC-580A	412	(2) 7.5	49.3	10,785	14,450	4,545	192	1635	(2) 4	71.9	2500	(2) 250	12,835	3651	2121	1530	495	3651
eco-ATC-608A	432	(2) 5.5	43.5	12,765	16,545	5,535	252	2144	(2) 4	71.9	2500	(2) 250	14,930	3842	2311	1530	686	3651
eco-ATC-638A	453	(2) 11	56.4	10,905	14,570	4,605	192	1635	(2) 4	71.9	2500	(2) 250	12,955	3651	2121	1530	495	3651
eco-ATC-649A	461	(2) 5.5	42.2	14,735	18,635	6,520	312	2652	(2) 4	71.9	2500	(2) 250	17,020	4032	2502	1530	876	3651
eco-ATC-653A	464	(2) 7.5	47.9	12,775	16,555	5,540	252	2144	(2) 4	71.9	2500	(2) 250	14,940	3842	2311	1530	686	3651
eco-ATC-673A	478	(2) 15	61.1	10,960	14,625	4,630	192	1635	(2) 4	71.9	2500	(2) 250	13,010	3651	2121	1530	495	3651
eco-ATC-693A	492	(2) 7.5	46.4	14,740	18,645	6,525	312	2652	(2) 4	71.9	2500	(2) 250	17,030	4032	2502	1530	876	3651
eco-ATC-718A	510	(2) 11	54.7	12,890	16,675	5,595	252	2144	(2) 4	71.9	2500	(2) 250	15,060	3842	2311	1530	686	3651
eco-ATC-756A	537	(2) 15	59.3	12,945	16,730	5,625	252	2144	(2) 4	71.9	2500	(2) 250	15,115	3842	2311	1530	686	3651
eco-ATC-778A	552	(2) 11	51.4	16,890	20,900	7,600	372	3161	(2) 4	71.9	2500	(2) 250	19,285	4223	2692	1530	1067	3651
eco-ATC-808A	574	(2) 15	57.5	14,915	18,815	6,610	312	2652	(2) 4	71.9	2500	(2) 250	17,200	4032	2502	1530	876	3651
eco-ATC-842A	598	(2) 18.5	61.3	14,940	18,840	6,620	312	2652	(2) 4	71.9	2500	(2) 250	17,225	4032	2502	1530	876	3651
eco-ATC-857A	608	(2) 18.5	59.3	16,975	20,985	7,640	372	3161	(2) 4	71.9	2500	(2) 250	19,370	4223	2692	1530	1067	3651

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.

** Liters 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. (300mm would normally be sufficient.)

† Heaviest section is the coil section.

*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.

Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-528A to eco-ATC-988A

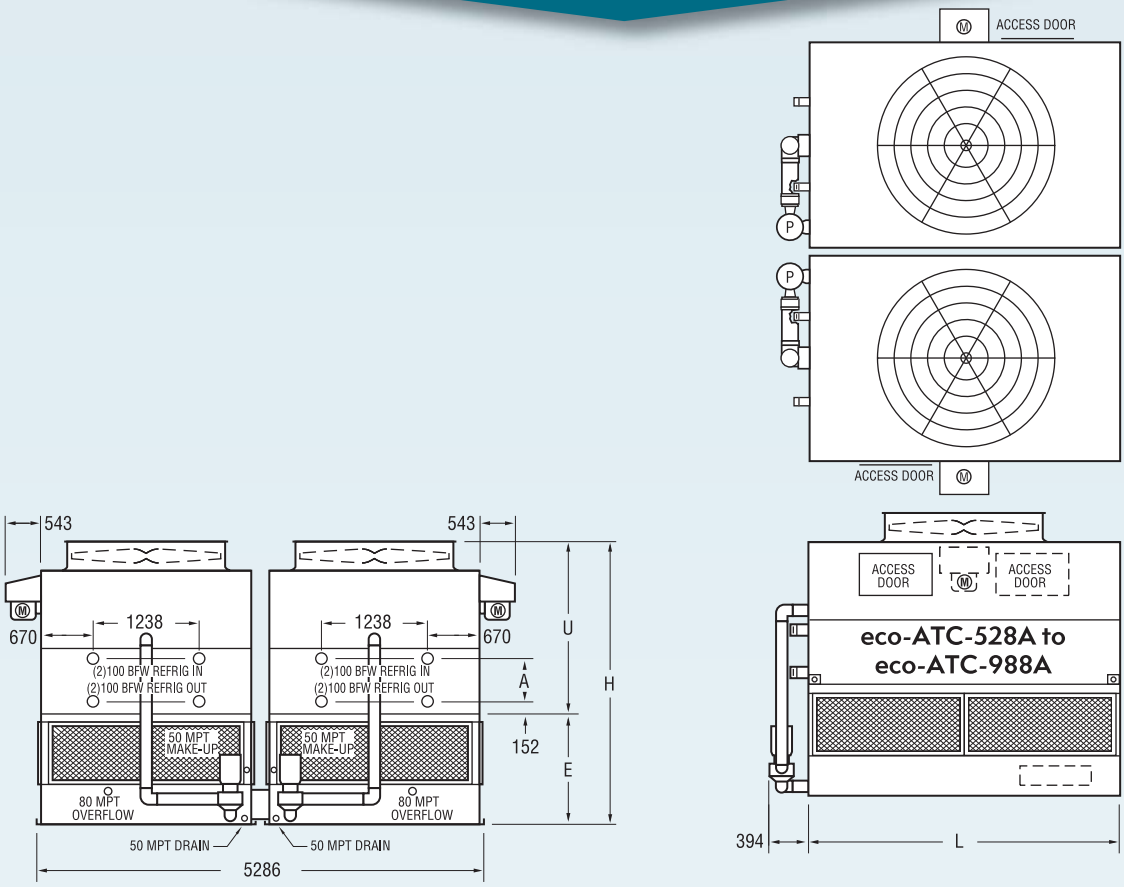


Table 17 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-528A	375	(2) 7.5	55.7	9,950	14,080	4,030	153	1299	(2) 4	82.0	2880	(2) 250	12,240	3613	1930	1683	305	4261
eco-ATC-577A	410	(2) 11	63.7	10,070	14,195	4,090	153	1299	(2) 4	82.0	2880	(2) 250	12,355	3613	1930	1683	305	4261
eco-ATC-613A	435	(2) 15	70.1	10,125	14,250	4,120	153	1299	(2) 4	82.0	2880	(2) 250	12,410	3613	1930	1683	305	4261
eco-ATC-705A	500	(2) 11	62.6	12,365	16,630	5,240	223	1895	(2) 4	82.0	2880	(2) 250	14,785	3804	2121	1683	495	4261
eco-ATC-730A	518	(2) 7.5	53.0	14,540	18,935	6,330	293	2490	(2) 4	82.0	2880	(2) 250	17,090	3994	2311	1683	686	4261
eco-ATC-751A	533	(2) 15	68.2	12,420	16,685	5,265	223	1895	(2) 4	82.0	2880	(2) 250	14,840	3804	2121	1683	495	4261
eco-ATC-773A	549	(2) 7.5	51.5	16,845	21,375	7,480	363	3085	(2) 4	82.0	2880	(2) 250	19,530	4185	2502	1683	876	4261
eco-ATC-797A	566	(2) 11	60.7	14,660	19,050	6,385	293	2490	(2) 4	82.0	2880	(2) 250	17,210	3994	2311	1683	686	4261
eco-ATC-848A	602	(2) 15	66.3	14,715	19,105	6,415	293	2490	(2) 4	82.0	2880	(2) 250	17,265	3994	2311	1683	686	4261
eco-ATC-860A	610	(2) 11	57.1	19,325	23,985	8,720	433	3681	(2) 4	82.0	2880	(2) 250	22,145	4375	2692	1683	1067	4261
eco-ATC-883A	627	(2) 18.5	70.6	14,740	19,130	6,425	293	2490	(2) 4	82.0	2880	(2) 250	17,290	3994	2311	1683	686	4261
eco-ATC-898A	637	(2) 15	64.3	17,020	21,545	7,565	363	3085	(2) 4	82.0	2880	(2) 250	19,705	4185	2502	1683	876	4261
eco-ATC-915A	649	(2) 15	62.3	19,375	24,040	8,745	433	3681	(2) 4	82.0	2880	(2) 250	22,200	4375	2692	1683	1067	4261
eco-ATC-935A	664	(2) 18.5	68.4	17,045	21,575	7,580	363	3085	(2) 4	82.0	2880	(2) 250	19,730	4185	2502	1683	876	4261
eco-ATC-954A	677	(2) 18.5	66.3	19,405	24,065	8,760	433	3681	(2) 4	82.0	2880	(2) 250	22,225	4375	2692	1683	1067	4261
eco-ATC-988A	701	(2) 22	69.8	19,450	24,115	8,780	433	3681	(2) 4	82.0	2880	(2) 250	22,270	4375	2692	1683	1067	4261

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.

** Liters 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. (300mm would normally be sufficient.)

† Heaviest section is the coil section.

*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.

Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-300A to eco-ATC-501A

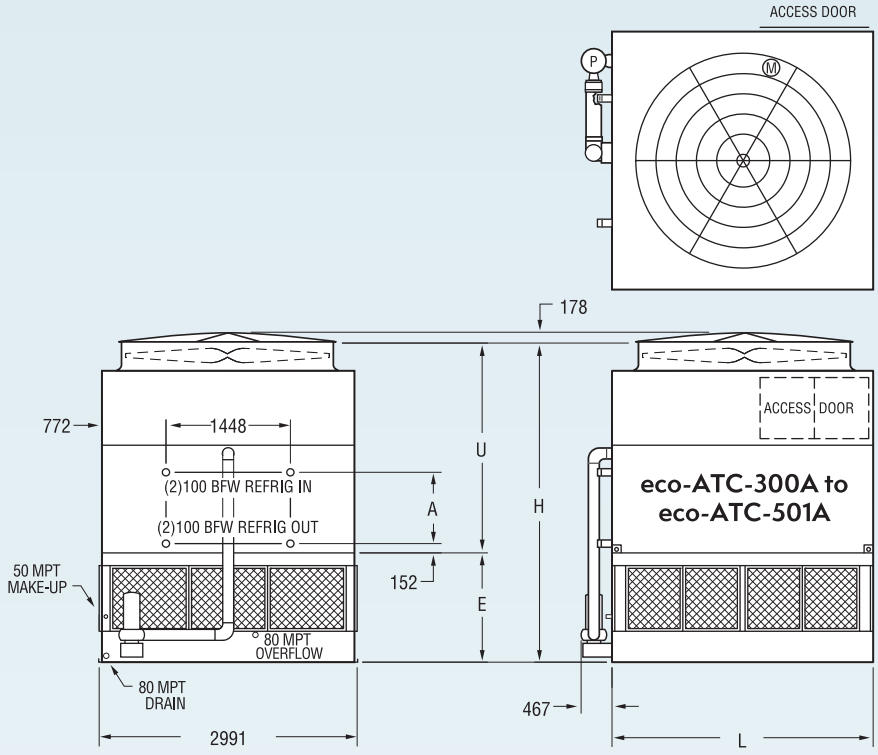


Table 18 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-300A	213	5.5	24.2	5,535	8,130	4,375	78	660	4	43.2	1590	300	6,510	3896	2315	1581	349	3651
eco-ATC-322A	229	7.5	26.6	5,540	8,135	4,380	78	660	4	43.2	1590	300	6,515	3896	2315	1581	349	3651
eco-ATC-353A	251	11	30.4	5,595	8,190	4,440	78	660	4	43.2	1590	300	6,575	3896	2315	1581	349	3651
eco-ATC-373A	265	15	33.5	5,625	8,220	4,470	78	660	4	43.2	1590	300	6,600	3896	2315	1581	349	3651
eco-ATC-389A	276	18.5	36.1	5,640	8,235	4,480	78	660	4	43.2	1590	300	6,615	3896	2315	1581	349	3651
eco-ATC-398A	283	11	30.0	6,675	9,340	5,520	113	959	4	43.2	1590	300	7,720	4112	2530	1581	565	3651
eco-ATC-419A	298	15	33.0	6,705	9,365	5,545	113	959	4	43.2	1590	300	7,745	4112	2530	1581	565	3651
eco-ATC-425A	302	11	29.1	8,975	11,775	7,820	183	1557	4	43.2	1590	300	10,155	4543	2962	1581	997	3651
eco-ATC-436A	310	18.5	35.6	6,720	9,380	5,560	113	959	4	43.2	1590	300	7,760	4112	2530	1581	565	3651
eco-ATC-442A	314	15	32.5	7,880	10,610	6,720	148	1258	4	43.2	1590	300	8,990	4328	2746	1581	781	3651
eco-ATC-452A	321	15	32.0	9,005	11,800	7,845	183	1557	4	43.2	1590	300	10,185	4543	2962	1581	997	3651
eco-ATC-459A	326	18.5	35.0	7,890	10,625	6,735	148	1258	4	43.2	1590	300	9,005	4328	2746	1581	781	3651
eco-ATC-469A	333	18.5	34.5	9,015	11,815	7,860	183	1557	4	43.2	1590	300	10,195	4543	2962	1581	997	3651
eco-ATC-487A	346	22	36.7	9,040	11,840	7,885	183	1557	4	43.2	1590	300	10,220	4543	2962	1581	997	3651
eco-ATC-501A	356	22	36.2	10,235	13,100	9,075	218	1856	4	43.2	1590	300	11,480	4759	3178	1581	1213	3651

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.
** Liters 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. (300mm would normally be sufficient.)
† Heaviest section is the coil section.
*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.
Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-391A to eco-ATC-694A

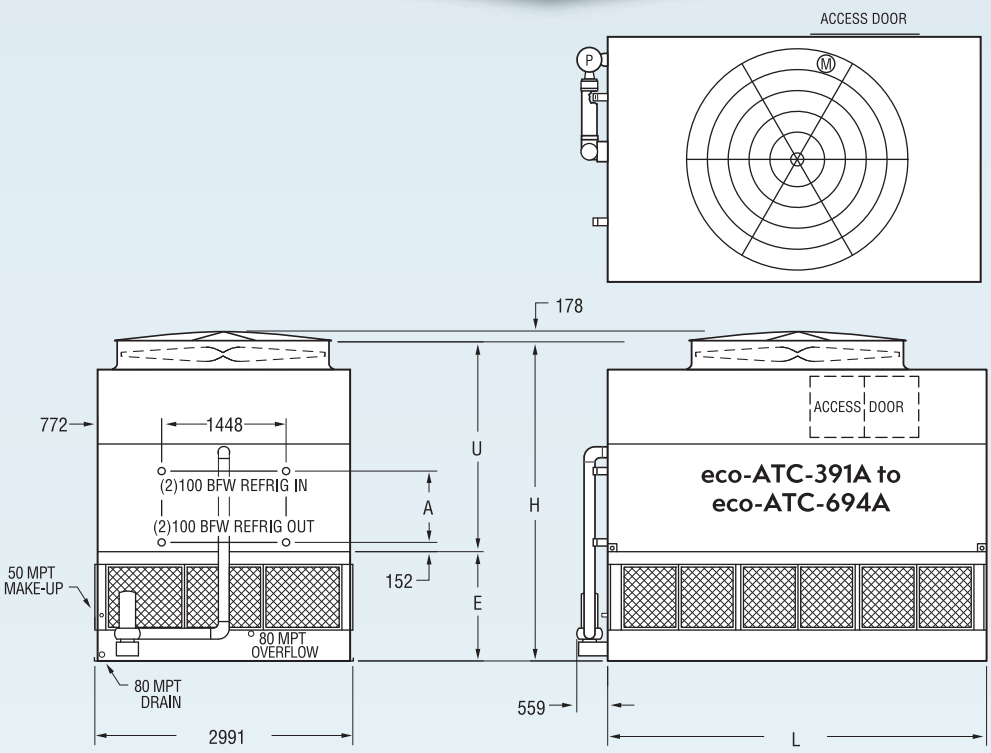


Table 19 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-391A	278	5.5	32.4	7,845	11,760	6,185	113	965	5.5	65.0	2380	300	9,380	3896	2315	1581	349	5486
eco-ATC-439A	312	5.5	31.9	9,485	13,505	7,830	167	1417	5.5	65.0	2380	300	11,120	4112	2530	1581	565	5486
eco-ATC-455A	323	5.5	31.4	11,240	15,365	9,585	220	1868	5.5	65.0	2380	300	12,980	4328	2746	1581	781	5486
eco-ATC-468A	332	5.5	31.0	12,950	17,175	11,295	273	2320	5.5	65.0	2380	300	14,790	4543	2962	1581	997	5486
eco-ATC-482A	342	5.5	30.5	14,735	19,055	13,075	326	2771	5.5	65.0	2380	300	16,675	4759	3178	1581	1213	5486
eco-ATC-493A	350	15	44.9	7,935	11,850	6,280	113	965	5.5	65.0	2380	300	9,470	3896	2315	1581	349	5486
eco-ATC-498A	354	7.5	34.1	12,955	17,175	11,300	273	2320	5.5	65.0	2380	300	14,795	4543	2962	1581	997	5486
eco-ATC-520A	369	18.5	48.3	7,945	11,865	6,290	113	965	5.5	65.0	2380	300	9,485	3896	2315	1581	349	5486
eco-ATC-540A	383	22	51.3	7,970	11,890	6,315	113	965	5.5	65.0	2380	300	9,505	3896	2315	1581	349	5486
eco-ATC-553A	393	15	44.2	9,575	13,595	7,920	167	1417	5.5	65.0	2380	300	11,215	4112	2530	1581	565	5486
eco-ATC-578A	410	15	43.6	11,330	15,455	9,675	220	1868	5.5	65.0	2380	300	13,070	4328	2746	1581	781	5486
eco-ATC-584A	415	18.5	47.6	9,590	13,610	7,935	167	1417	5.5	65.0	2380	300	11,225	4112	2530	1581	565	5486
eco-ATC-599A	425	15	42.3	14,825	19,145	13,170	326	2771	5.5	65.0	2380	300	16,765	4759	3178	1581	1213	5486
eco-ATC-606A	430	22	50.6	9,610	13,630	7,955	167	1417	5.5	65.0	2380	300	11,250	4112	2530	1581	565	5486
eco-ATC-611A	434	18.5	46.3	13,055	17,275	11,400	273	2320	5.5	65.0	2380	300	14,895	4543	2962	1581	997	5486
eco-ATC-630A	447	22	49.9	11,365	15,490	9,710	220	1868	5.5	65.0	2380	300	13,110	4328	2746	1581	781	5486
eco-ATC-655A	465	22	48.4	14,860	19,180	13,205	326	2771	5.5	65.0	2380	300	16,800	4759	3178	1581	1213	5486
eco-ATC-667A	474	30	54.9	11,440	15,565	9,785	220	1868	5.5	65.0	2380	300	13,180	4328	2746	1581	781	5486
eco-ATC-694A	493	30	53.3	14,930	19,255	13,275	326	2771	5.5	65.0	2380	300	16,875	4759	3178	1581	1213	5486

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.

** Liters 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. (300mm would normally be sufficient.)

† Heaviest section is the coil section.

*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.

Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-642A to eco-ATC-1002A

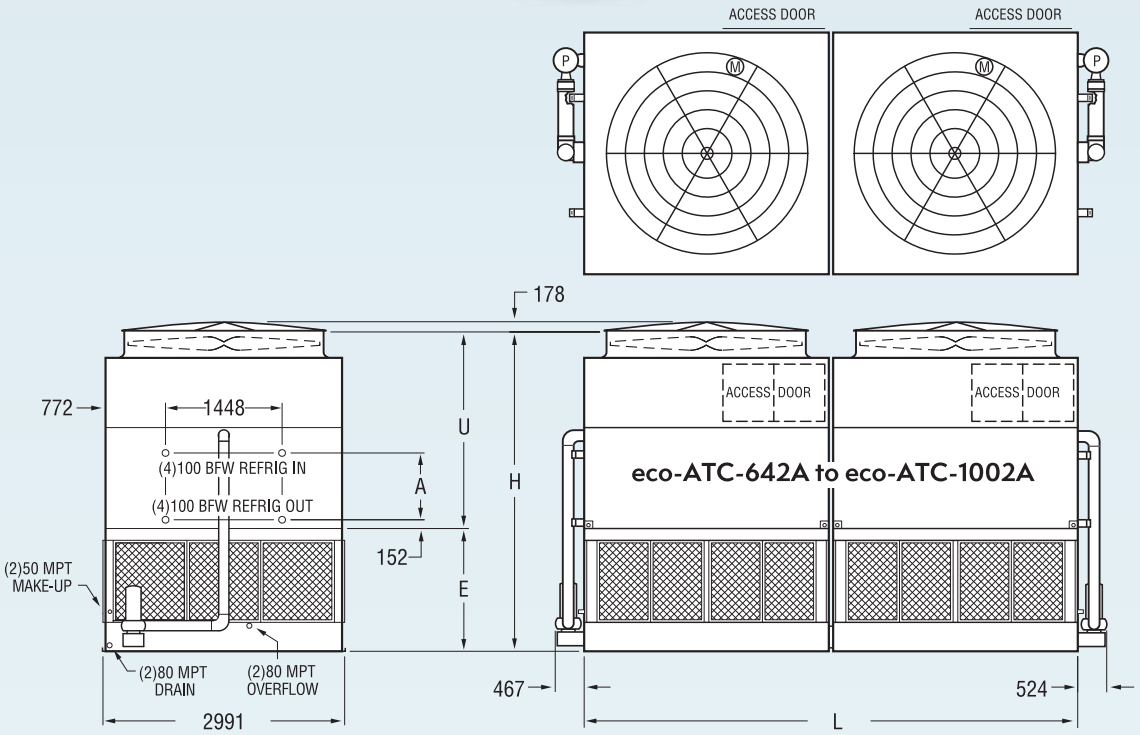


Table 20 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-642A	456	(2) 7.5	53.2	11,075	16,265	4,380	155	1320	(2) 4	86.4	3180	(2) 300	13,025	4201	2315	1886	349	7366
eco-ATC-675A	479	(2) 5.5	47.6	13,225	18,550	5,455	225	1918	(2) 4	86.4	3180	(2) 300	15,315	4416	2530	1886	565	7366
eco-ATC-706A	501	(2) 11	60.9	11,195	16,385	4,440	155	1320	(2) 4	86.4	3180	(2) 300	13,145	4201	2315	1886	349	7366
eco-ATC-722A	513	(2) 7.5	52.4	13,235	18,560	5,460	225	1918	(2) 4	86.4	3180	(2) 300	15,320	4416	2530	1886	565	7366
eco-ATC-734A	521	(2) 5.5	46.2	17,825	23,425	7,755	366	3113	(2) 4	86.4	3180	(2) 300	20,185	4848	2962	1886	997	7366
eco-ATC-747A	530	(2) 15	67.0	11,250	16,440	4,470	155	1320	(2) 4	86.4	3180	(2) 300	13,200	4201	2315	1886	349	7366
eco-ATC-759A	539	(2) 7.5	51.6	15,585	21,045	6,635	296	2516	(2) 4	86.4	3180	(2) 300	17,810	4632	2746	1886	781	7366
eco-ATC-777A	552	(2) 18.5	72.2	11,275	16,465	4,480	155	1320	(2) 4	86.4	3180	(2) 300	13,225	4201	2315	1886	349	7366
eco-ATC-781A	554	(2) 7.5	50.9	17,835	23,430	7,760	366	3113	(2) 4	86.4	3180	(2) 300	20,195	4848	2962	1886	997	7366
eco-ATC-792A	562	(2) 11	60.0	13,355	18,680	5,520	225	1918	(2) 4	86.4	3180	(2) 300	15,440	4416	2530	1886	565	7366
eco-ATC-803A	570	(2) 7.5	50.1	20,220	25,955	8,955	436	3711	(2) 4	86.4	3180	(2) 300	22,715	5064	3178	1886	1213	7366
eco-ATC-839A	596	(2) 15	66.0	13,410	18,735	5,545	225	1918	(2) 4	86.4	3180	(2) 300	15,495	4416	2530	1886	565	7366
eco-ATC-851A	604	(2) 11	58.2	17,955	23,550	7,820	366	3113	(2) 4	86.4	3180	(2) 300	20,310	4848	2962	1886	997	7366
eco-ATC-873A	620	(2) 18.5	71.1	13,435	18,760	5,560	225	1918	(2) 4	86.4	3180	(2) 300	15,520	4416	2530	1886	565	7366
eco-ATC-885A	628	(2) 15	65.0	15,760	21,220	6,720	296	2516	(2) 4	86.4	3180	(2) 300	17,980	4632	2746	1886	781	7366
eco-ATC-901A	640	(2) 15	64.1	18,010	23,605	7,845	366	3113	(2) 4	86.4	3180	(2) 300	20,365	4848	2962	1886	997	7366
eco-ATC-918A	652	(2) 18.5	70.1	15,785	21,245	6,735	296	2516	(2) 4	86.4	3180	(2) 300	18,010	4632	2746	1886	781	7366
eco-ATC-928A	659	(2) 15	63.1	20,395	26,125	9,040	436	3711	(2) 4	86.4	3180	(2) 300	22,890	5064	3178	1886	1213	7366
eco-ATC-941A	668	(2) 18.5	69.0	18,035	23,630	7,860	366	3113	(2) 4	86.4	3180	(2) 300	20,395	4848	2962	1886	997	7366
eco-ATC-969A	688	(2) 18.5	68.0	20,420	26,155	9,055	436	3711	(2) 4	86.4	3180	(2) 300	22,915	5064	3178	1886	1213	7366
eco-ATC-973A	691	(2) 22	73.4	18,080	23,675	7,885	366	3113	(2) 4	86.4	3180	(2) 300	20,440	4848	2962	1886	997	7366
eco-ATC-1002A	711	(2) 22	72.3	20,465	26,200	9,075	436	3711	(2) 4	86.4	3180	(2) 300	22,960	5064	3178	1886	1213	7366

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.

** Liters 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. (300mm would normally be sufficient.)

† Heaviest section is the coil section.

*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.

Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-879A to eco-ATC-1388A

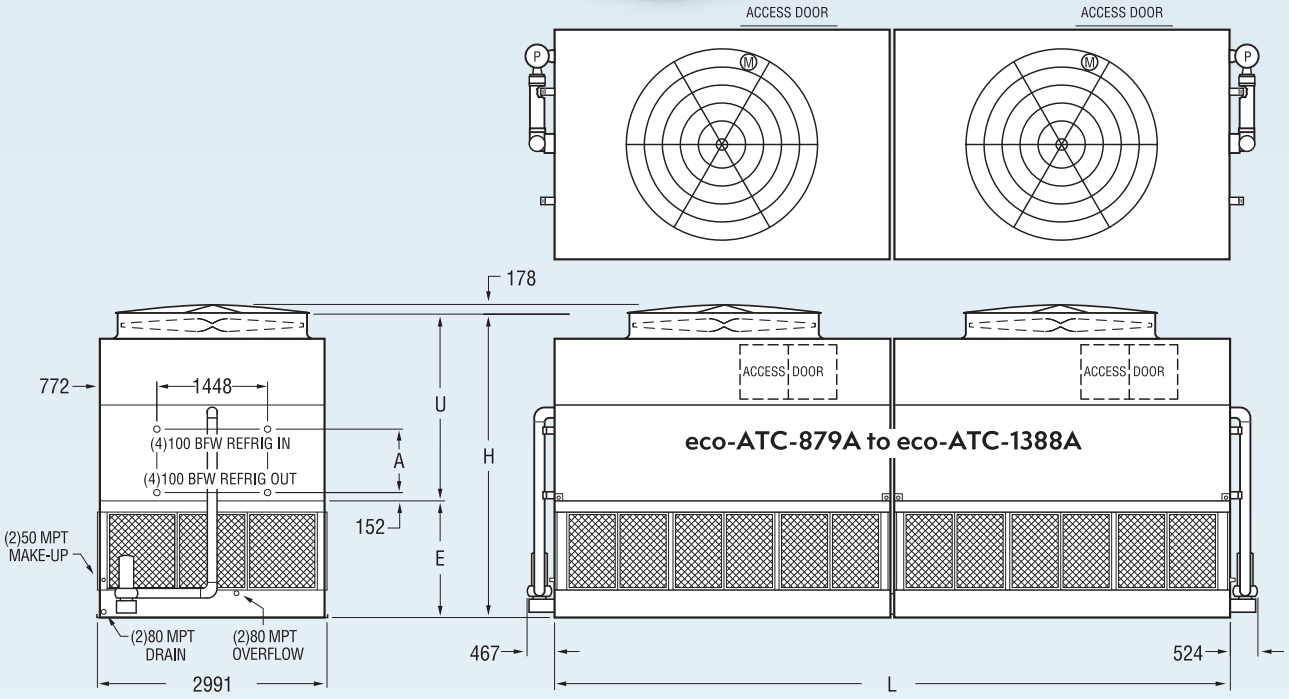


Table 21 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-879A	624	(2) 5.5	63.8	18,970	27,005	7,830	333	2834	(2) 5.5	130.0	4770	(2) 300	22,245	4416	2530	1886	565	11036
eco-ATC-919A	652	(2) 11	81.6	15,810	23,650	6,250	227	1931	(2) 5.5	130.0	4770	(2) 300	18,885	4201	2315	1886	349	11036
eco-ATC-964A	684	(2) 5.5	61.0	29,465	38,110	13,075	652	5542	(2) 5.5	130.0	4770	(2) 300	33,350	5064	3178	1886	1213	11036
eco-ATC-975A	692	(2) 7.5	69.1	22,490	30,735	9,590	439	3737	(2) 5.5	130.0	4770	(2) 300	25,975	4632	2746	1886	781	11036
eco-ATC-986A	700	(2) 15	89.8	15,865	23,705	6,280	227	1931	(2) 5.5	130.0	4770	(2) 300	18,940	4201	2315	1886	349	11036
eco-ATC-995A	706	(2) 7.5	68.1	25,910	34,355	11,300	545	4640	(2) 5.5	130.0	4770	(2) 300	29,590	4848	2962	1886	997	11036
eco-ATC-1025A	727	(2) 7.5	67.1	29,475	38,120	13,080	652	5542	(2) 5.5	130.0	4770	(2) 300	33,355	5064	3178	1886	1213	11036
eco-ATC-1032A	732	(2) 11	80.3	19,095	27,135	7,890	333	2834	(2) 5.5	130.0	4770	(2) 300	22,370	4416	2530	1886	565	11036
eco-ATC-1041A	739	(2) 18.5	96.7	15,895	23,730	6,290	227	1931	(2) 5.5	130.0	4770	(2) 300	18,970	4201	2315	1886	349	11036
eco-ATC-1081A	767	(2) 22	102.7	15,940	23,775	6,315	227	1931	(2) 5.5	130.0	4770	(2) 300	19,015	4201	2315	1886	349	11036
eco-ATC-1085A	770	(2) 11	78.0	26,025	34,475	11,360	545	4640	(2) 5.5	130.0	4770	(2) 300	29,710	4848	2962	1886	997	11036
eco-ATC-1108A	786	(2) 15	88.4	19,150	27,190	7,920	333	2834	(2) 5.5	130.0	4770	(2) 300	22,425	4416	2530	1886	565	11036
eco-ATC-1118A	793	(2) 11	76.8	29,590	38,240	13,140	652	5542	(2) 5.5	130.0	4770	(2) 300	33,475	5064	3178	1886	1213	11036
eco-ATC-1153A	818	(2) 15	87.1	22,660	30,910	9,675	439	3737	(2) 5.5	130.0	4770	(2) 300	26,145	4632	2746	1886	781	11036
eco-ATC-1168A	829	(2) 18.5	95.2	19,180	27,215	7,935	333	2834	(2) 5.5	130.0	4770	(2) 300	22,455	4416	2530	1886	565	11036
eco-ATC-1198A	850	(2) 15	84.6	29,645	38,290	13,170	652	5542	(2) 5.5	130.0	4770	(2) 300	33,530	5064	3178	1886	1213	11036
eco-ATC-1212A	860	(2) 22	101.2	19,225	27,260	7,955	333	2834	(2) 5.5	130.0	4770	(2) 300	22,500	4416	2530	1886	565	11036
eco-ATC-1258A	893	(2) 22	99.7	22,735	30,980	9,710	439	3737	(2) 5.5	130.0	4770	(2) 300	26,220	4632	2746	1886	781	11036
eco-ATC-1272A	903	(2) 22	98.3	26,155	34,600	11,420	545	4640	(2) 5.5	130.0	4770	(2) 300	29,835	4848	2962	1886	997	11036
eco-ATC-1310A	930	(2) 22	96.8	29,720	38,365	13,205	652	5542	(2) 5.5	130.0	4770	(2) 300	33,600	5064	3178	1886	1213	11036
eco-ATC-1334A	947	(2) 30	109.8	22,880	31,125	9,785	439	3737	(2) 5.5	130.0	4770	(2) 300	26,365	4632	2746	1886	781	11036
eco-ATC-1348A	957	(2) 30	108.2	26,300	34,745	11,495	545	4640	(2) 5.5	130.0	4770	(2) 300	29,980	4848	2962	1886	997	11036
eco-ATC-1388A	985	(2) 30	106.6	29,865	38,510	13,275	652	5542	(2) 5.5	130.0	4770	(2) 300	33,745	5064	3178	1886	1213	11036

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.

** Liters 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. (300mm would normally be sufficient.)

† Heaviest section is the coil section.

*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.

Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-325A to eco-ATC-632A

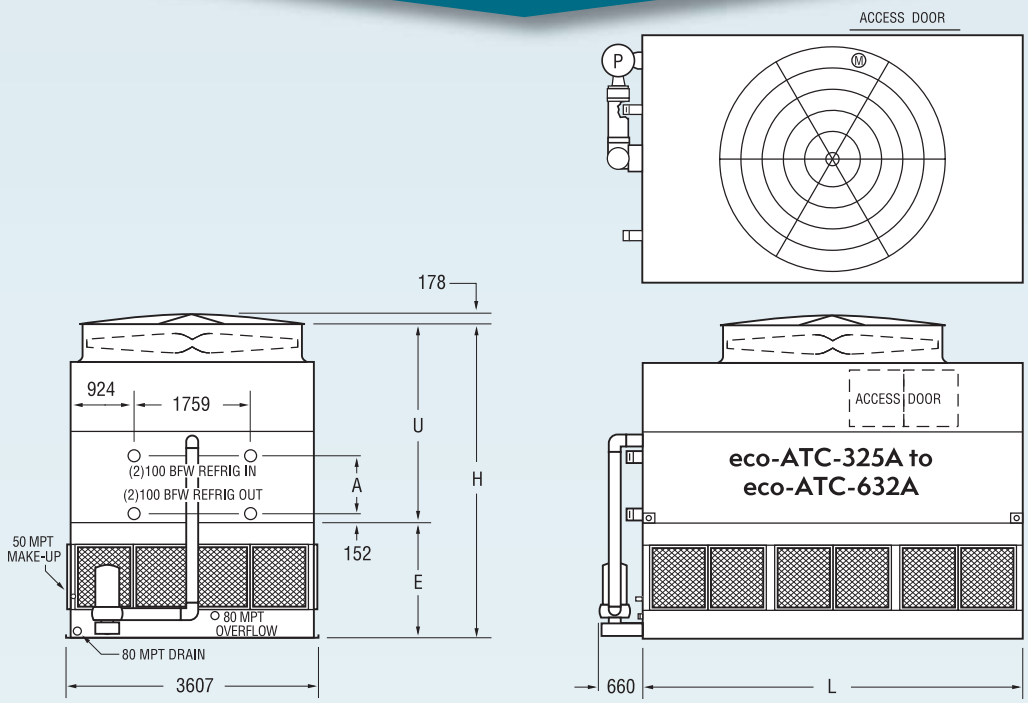


Table 22 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-325A	231	7.5	32.0	6,240	9,160	5,010	95	811	4	50.5	1850	300	7,365	3896	2315	1581	349	3651
eco-ATC-355A	252	11	36.6	6,300	9,215	5,070	95	811	4	50.5	1850	300	7,425	3896	2315	1581	349	3651
eco-ATC-378A	269	15	40.3	6,330	9,245	5,100	95	811	4	50.5	1850	300	7,450	3896	2315	1581	349	3651
eco-ATC-393A	279	18.5	43.3	6,340	9,260	5,110	95	811	4	50.5	1850	300	7,465	3896	2315	1581	349	3651
eco-ATC-399A	283	7.5	31.3	7,630	10,630	6,400	139	1180	4	50.5	1850	300	8,835	4112	2530	1581	565	3651
eco-ATC-435A	309	11	35.9	7,690	10,685	6,460	139	1180	4	50.5	1850	300	8,895	4112	2530	1581	565	3651
eco-ATC-448A	318	7.5	30.4	9,075	12,160	7,845	182	1548	4	50.5	1850	300	10,370	4328	2746	1581	781	3651
eco-ATC-463A	329	15	39.5	7,715	10,715	6,485	139	1180	4	50.5	1850	300	8,920	4112	2530	1581	565	3651
eco-ATC-475A	337	7.5	29.5	10,450	13,615	9,220	225	1917	4	50.5	1850	300	11,825	4543	2962	1581	997	3651
eco-ATC-481A	342	18.5	42.1	7,730	10,725	6,500	139	1180	4	50.5	1850	300	8,935	4112	2530	1581	565	3651
eco-ATC-490A	348	11	34.8	9,135	12,220	7,905	182	1548	4	50.5	1850	300	10,430	4328	2746	1581	781	3651
eco-ATC-522A	371	15	38.3	9,165	12,245	7,935	182	1548	4	50.5	1850	300	10,455	4328	2746	1581	781	3651
eco-ATC-531A	377	11	32.8	11,965	15,215	10,735	269	2286	4	50.5	1850	300	13,420	4759	3178	1581	1213	3651
eco-ATC-543A	386	18.5	40.9	9,175	12,260	7,945	182	1548	4	50.5	1850	300	10,470	4328	2746	1581	781	3651
eco-ATC-558A	396	22	43.0	9,200	12,285	7,970	182	1548	4	50.5	1850	300	10,490	4328	2746	1581	781	3651
eco-ATC-565A	401	15	36.1	11,995	15,240	10,765	269	2286	4	50.5	1850	300	13,450	4759	3178	1581	1213	3651
eco-ATC-573A	407	18.5	39.6	10,550	13,715	9,320	225	1917	4	50.5	1850	300	11,925	4543	2962	1581	997	3651
eco-ATC-588A	418	18.5	38.4	12,005	15,255	10,775	269	2286	4	50.5	1850	300	13,465	4759	3178	1581	1213	3651
eco-ATC-593A	421	22	41.8	10,575	13,740	9,345	225	1917	4	50.5	1850	300	11,950	4543	2962	1581	997	3651
eco-ATC-605A	430	22	40.4	12,030	15,275	10,800	269	2286	4	50.5	1850	300	13,485	4759	3178	1581	1213	3651
eco-ATC-632A	449	30	43.8	12,100	15,350	10,875	269	2286	4	50.5	1850	300	13,560	4759	3178	1581	1213	3651

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.

** Liters 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. (300mm would normally be sufficient.)

† Heaviest section is the coil section.

*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.

Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-408A to eco-ATC-685A

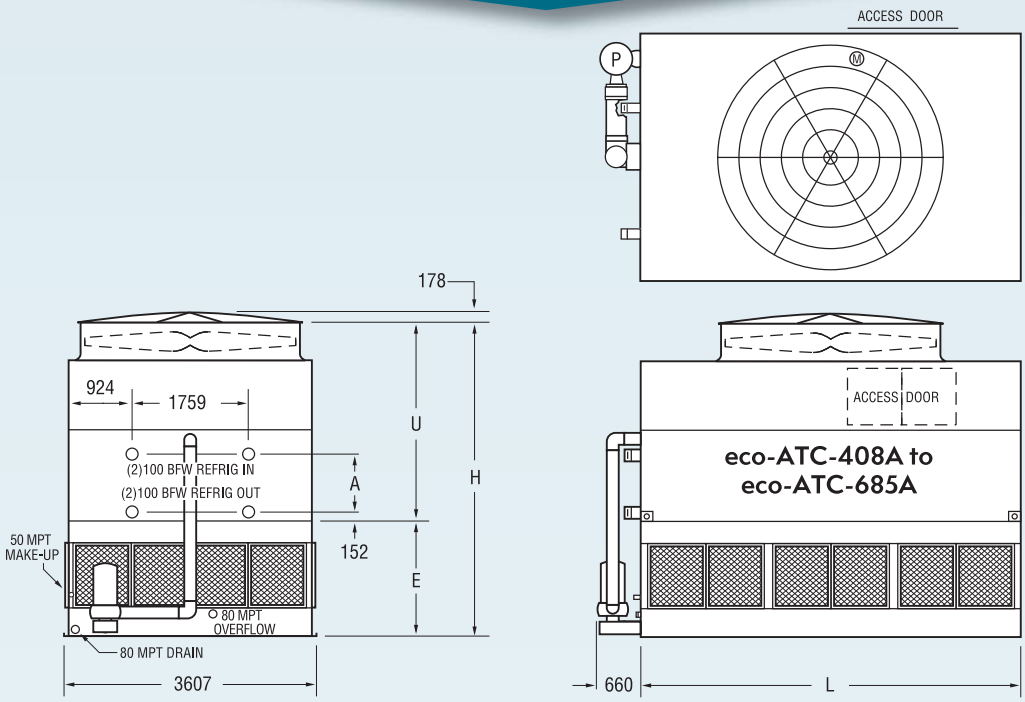


Table 23 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-408A	290	15	44.6	7,105	10,535	5,715	110	936	4	56.8	2160	300	8,465	4048	2315	1734	349	4261
eco-ATC-427A	303	18.5	48.0	7,115	10,550	5,730	110	936	4	56.8	2160	300	8,480	4048	2315	1734	349	4261
eco-ATC-440A	313	22	51.0	7,140	10,575	5,750	110	936	4	56.8	2160	300	8,500	4048	2315	1734	349	4261
eco-ATC-471A	335	11	39.8	8,735	12,270	7,350	161	1368	4	56.8	2160	300	10,195	4264	2530	1734	565	4261
eco-ATC-500A	355	15	43.8	8,765	12,295	7,375	161	1368	4	56.8	2160	300	10,225	4264	2530	1734	565	4261
eco-ATC-533A	379	11	38.6	10,425	14,050	9,035	212	1799	4	56.8	2160	300	11,980	4480	2746	1734	781	4261
eco-ATC-539A	383	22	49.6	8,800	12,335	7,410	161	1368	4	56.8	2160	300	10,260	4264	2530	1734	565	4261
eco-ATC-566A	402	15	42.5	10,450	14,080	9,065	212	1799	4	56.8	2160	300	12,005	4480	2746	1734	781	4261
eco-ATC-591A	420	18.5	45.7	10,465	14,095	9,075	212	1799	4	56.8	2160	300	12,020	4480	2746	1734	781	4261
eco-ATC-609A	432	22	48.1	10,485	14,115	9,100	212	1799	4	56.8	2160	300	12,045	4480	2746	1734	781	4261
eco-ATC-610A	433	15	39.9	13,865	17,690	12,480	313	2663	4	56.8	2160	300	15,615	4912	3178	1734	1213	4261
eco-ATC-627A	445	18.5	44.4	12,045	15,775	10,660	262	2231	4	56.8	2160	300	13,705	4696	2962	1734	997	4261
eco-ATC-637A	452	18.5	43.0	13,880	17,705	12,490	313	2663	4	56.8	2160	300	15,630	4912	3178	1734	1213	4261
eco-ATC-644A	457	22	46.7	12,070	15,800	10,680	262	2231	4	56.8	2160	300	13,725	4696	2962	1734	997	4261
eco-ATC-657A	466	22	45.2	13,905	17,725	12,515	313	2663	4	56.8	2160	300	15,655	4912	3178	1734	1213	4261
eco-ATC-672A	477	30	50.6	12,145	15,870	10,755	262	2231	4	56.8	2160	300	13,800	4696	2962	1734	997	4261
eco-ATC-685A	486	30	49.0	13,975	17,800	12,585	313	2663	4	56.8	2160	300	15,725	4912	3178	1734	1213	4261

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.
** Liters 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. (300mm would normally be sufficient.)
† Heaviest section is the coil section.
*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.
Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-432A to eco-ATC-923A

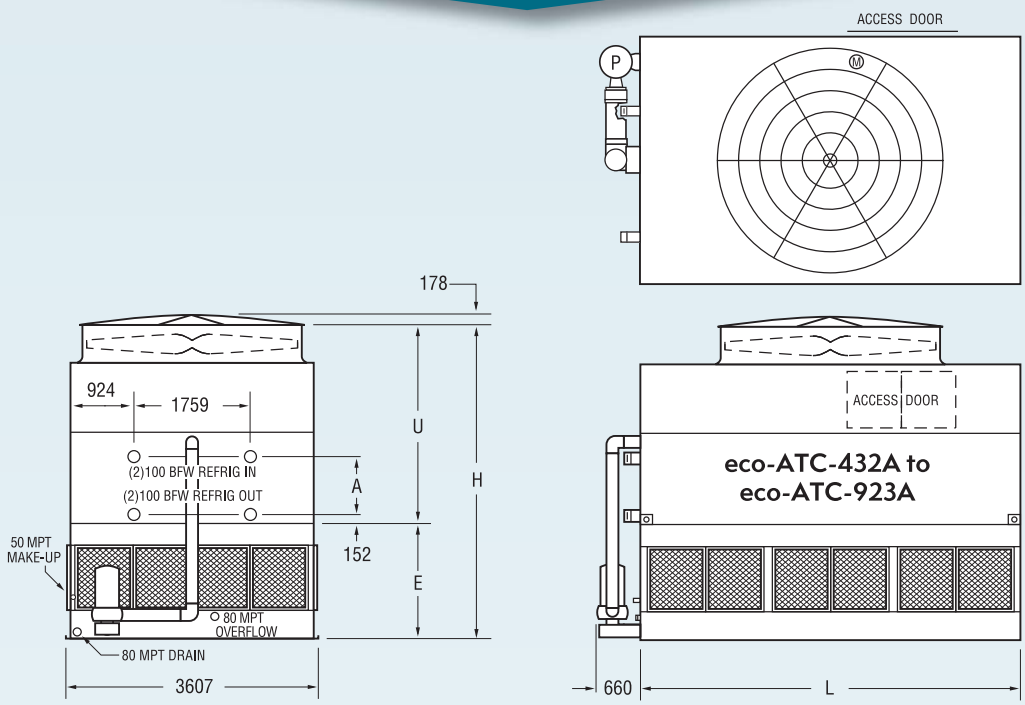


Table 24 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-432A	307	7.5	43.7	8,860	13,255	7,080	140	1187	5.5	75.7	2730	300	10,590	4201	2315	1886	349	5486
eco-ATC-510A	362	15	55.0	8,945	13,340	7,165	140	1187	5.5	75.7	2730	300	10,680	4201	2315	1886	349	5486
eco-ATC-530A	376	7.5	42.4	10,935	15,455	9,160	205	1745	5.5	75.7	2730	300	12,790	4416	2530	1886	565	5486
eco-ATC-562A	399	22	63.0	8,980	13,375	7,205	140	1187	5.5	75.7	2730	300	10,715	4201	2315	1886	349	5486
eco-ATC-579A	411	7.5	41.2	13,095	17,740	11,315	271	2302	5.5	75.7	2730	300	15,075	4632	2746	1886	781	5486
eco-ATC-625A	444	15	53.5	11,020	15,540	9,245	205	1745	5.5	75.7	2730	300	12,875	4416	2530	1886	565	5486
eco-ATC-633A	449	7.5	39.9	15,180	19,955	13,405	336	2859	5.5	75.7	2730	300	17,290	4848	2962	1886	997	5486
eco-ATC-659A	468	18.5	57.6	11,035	15,555	9,260	205	1745	5.5	75.7	2730	300	12,890	4416	2530	1886	565	5486
eco-ATC-688A	488	22	61.2	11,060	15,575	9,280	205	1745	5.5	75.7	2730	300	12,915	4416	2530	1886	565	5486
eco-ATC-700A	497	15	51.9	13,180	17,825	11,405	271	2302	5.5	75.7	2730	300	15,165	4632	2746	1886	781	5486
eco-ATC-708A	503	11	44.4	17,350	22,250	15,570	402	3416	5.5	75.7	2730	300	19,585	5064	3178	1886	1213	5486
eco-ATC-744A	528	18.5	55.9	13,195	17,840	11,415	271	2302	5.5	75.7	2730	300	15,175	4632	2746	1886	781	5486
eco-ATC-757A	537	15	48.8	17,375	22,275	15,600	402	3416	5.5	75.7	2730	300	19,615	5064	3178	1886	1213	5486
eco-ATC-779A	553	22	59.5	13,220	17,860	11,440	271	2302	5.5	75.7	2730	300	15,200	4632	2746	1886	781	5486
eco-ATC-785A	557	18.5	54.2	15,280	20,055	13,505	336	2859	5.5	75.7	2730	300	17,390	4848	2962	1886	997	5486
eco-ATC-799A	567	18.5	52.6	17,390	22,290	15,615	402	3416	5.5	75.7	2730	300	19,625	5064	3178	1886	1213	5486
eco-ATC-821A	583	22	57.6	15,305	20,075	13,525	336	2859	5.5	75.7	2730	300	17,415	4848	2962	1886	997	5486
eco-ATC-835A	593	22	55.9	17,415	22,310	15,635	402	3416	5.5	75.7	2730	300	19,650	5064	3178	1886	1213	5486
eco-ATC-869A	617	30	62.6	15,375	20,150	13,600	336	2859	5.5	75.7	2730	300	17,485	4848	2962	1886	997	5486
eco-ATC-884A	627	30	60.6	17,485	22,385	15,710	402	3416	5.5	75.7	2730	300	19,720	5064	3178	1886	1213	5486
eco-ATC-923A	655	37	64.5	17,490	22,390	15,710	402	3416	5.5	75.7	2730	300	19,725	5064	3178	1886	1213	5486

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.

** Liters 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. (300mm would normally be sufficient.)

† Heaviest section is the coil section.

*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.

Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-585A to eco-ATC-1001A

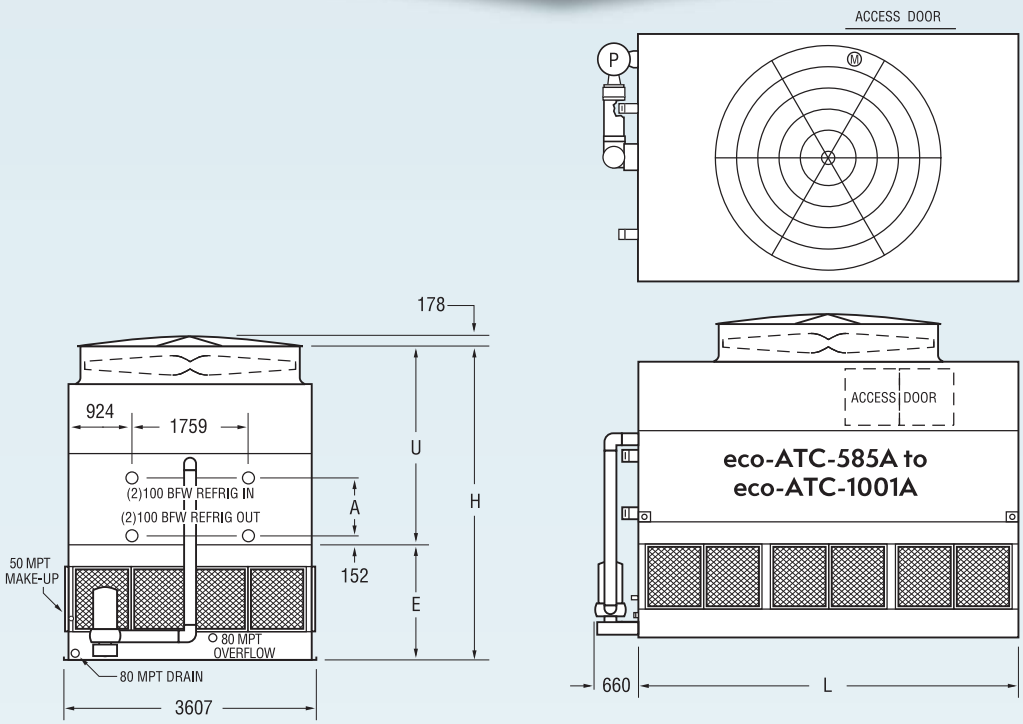


Table 25 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-585A	415	22	67.0	9,855	14,785	7,810	154	1313	7.5	88.3	3640	350	11,750	4201	2315	1886	349	6096
eco-ATC-623A	442	30	73.8	9,930	14,860	7,885	154	1313	7.5	88.3	3640	350	11,820	4201	2315	1886	349	6096
eco-ATC-717A	509	22	65.7	12,210	17,280	10,165	227	1933	7.5	88.3	3640	350	14,245	4416	2530	1886	565	6096
eco-ATC-761A	540	30	71.7	12,285	17,355	10,240	227	1933	7.5	88.3	3640	350	14,315	4416	2530	1886	565	6096
eco-ATC-780A	554	18.5	60.0	14,565	19,775	12,520	300	2553	7.5	88.3	3640	350	16,735	4632	2746	1886	781	6096
eco-ATC-811A	576	22	63.8	14,585	19,800	12,540	300	2553	7.5	88.3	3640	350	16,760	4632	2746	1886	781	6096
eco-ATC-825A	586	18.5	58.2	16,885	22,235	14,840	373	3173	7.5	88.3	3640	350	19,195	4848	2962	1886	997	6096
eco-ATC-838A	595	18.5	56.4	19,450	24,940	17,405	446	3793	7.5	88.3	3640	350	21,900	5064	3178	1886	1213	6096
eco-ATC-858A	609	22	61.9	16,910	22,260	14,865	373	3173	7.5	88.3	3640	350	19,220	4848	2962	1886	997	6096
eco-ATC-863A	613	30	69.7	14,660	19,870	12,615	300	2553	7.5	88.3	3640	350	16,835	4632	2746	1886	781	6096
eco-ATC-913A	648	30	67.6	16,980	22,330	14,935	373	3173	7.5	88.3	3640	350	19,290	4848	2962	1886	997	6096
eco-ATC-953A	676	37	71.9	16,985	22,335	14,940	373	3173	7.5	88.3	3640	350	19,295	4848	2962	1886	997	6096
eco-ATC-968A	687	37	69.7	19,550	25,040	17,505	446	3793	7.5	88.3	3640	350	22,000	5064	3178	1886	1213	6096
eco-ATC-1001A	710	45	73.3	19,640	25,130	17,595	446	3793	7.5	88.3	3640	350	22,090	5064	3178	1886	1213	6096

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.

** Liters 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. (300mm would normally be sufficient.)

† Heaviest section is the coil section.

*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.

Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-650A to eco-ATC-1263A

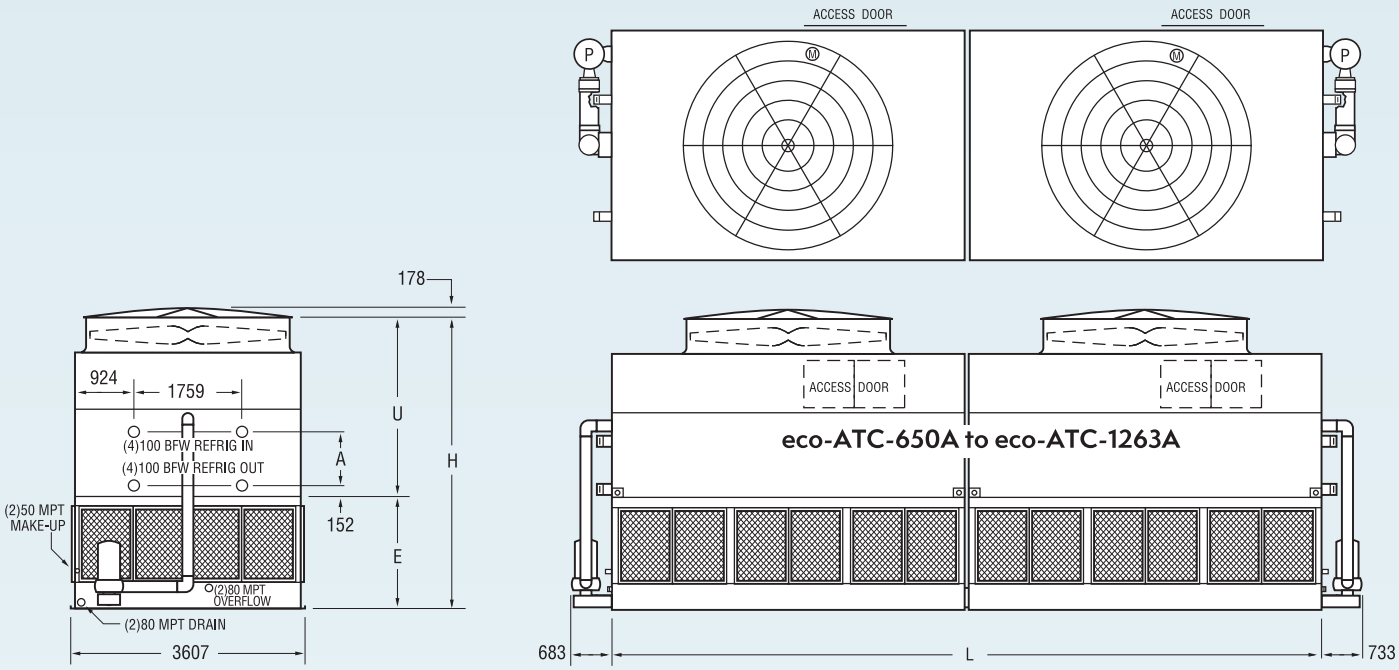


Table 26 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-650A	461	(2) 7.5	63.9	12,485	18,315	5,010	191	1621	(2) 4	100.9	4460	(2) 300	14,735	4201	2315	1886	349	7366
eco-ATC-709A	503	(2) 11	73.1	12,600	18,435	5,070	191	1621	(2) 4	100.9	4460	(2) 300	14,850	4201	2315	1886	349	7366
eco-ATC-753A	535	(2) 15	80.5	12,655	18,490	5,100	191	1621	(2) 4	100.9	4460	(2) 300	14,905	4201	2315	1886	349	7366
eco-ATC-795A	564	(2) 7.5	62.7	15,260	21,255	6,400	277	2359	(2) 4	100.9	4460	(2) 300	17,670	4416	2530	1886	565	7366
eco-ATC-870A	618	(2) 11	71.7	15,375	21,375	6,460	277	2359	(2) 4	100.9	4460	(2) 300	17,790	4416	2530	1886	565	7366
eco-ATC-894A	635	(2) 7.5	60.9	18,155	24,320	7,845	364	3097	(2) 4	100.9	4460	(2) 300	20,740	4632	2746	1886	781	7366
eco-ATC-925A	657	(2) 15	79.0	15,430	21,430	6,485	277	2359	(2) 4	100.9	4460	(2) 300	17,845	4416	2530	1886	565	7366
eco-ATC-950A	674	(2) 7.5	59.1	20,900	27,235	9,220	451	3834	(2) 4	100.9	4460	(2) 300	23,650	4848	2962	1886	997	7366
eco-ATC-962A	683	(2) 18.5	84.2	15,460	21,455	6,500	277	2359	(2) 4	100.9	4460	(2) 300	17,870	4416	2530	1886	565	7366
eco-ATC-970A	688	(2) 7.5	57.3	23,815	30,310	10,680	538	4572	(2) 4	100.9	4460	(2) 300	26,725	5064	3178	1886	1213	7366
eco-ATC-979A	695	(2) 11	69.7	18,270	24,440	7,905	364	3097	(2) 4	100.9	4460	(2) 300	20,855	4632	2746	1886	781	7366
eco-ATC-1042A	740	(2) 15	76.7	18,325	24,495	7,935	364	3097	(2) 4	100.9	4460	(2) 300	20,910	4632	2746	1886	781	7366
eco-ATC-1061A	753	(2) 11	65.6	23,930	30,425	10,735	538	4572	(2) 4	100.9	4460	(2) 300	26,845	5064	3178	1886	1213	7366
eco-ATC-1083A	769	(2) 18.5	81.7	18,350	24,520	7,945	364	3097	(2) 4	100.9	4460	(2) 300	20,940	4632	2746	1886	781	7366
eco-ATC-1106A	785	(2) 15	74.5	21,075	27,405	9,310	451	3834	(2) 4	100.9	4460	(2) 300	23,825	4848	2962	1886	997	7366
eco-ATC-1115A	791	(2) 22	86.0	18,400	24,565	7,970	364	3097	(2) 4	100.9	4460	(2) 300	20,985	4632	2746	1886	781	7366
eco-ATC-1210A	859	(2) 22	80.9	24,060	30,555	10,800	538	4572	(2) 4	100.9	4460	(2) 300	26,970	5064	3178	1886	1213	7366
eco-ATC-1263A	896	(2) 30	87.6	24,205	30,700	10,875	538	4572	(2) 4	100.9	4460	(2) 300	27,115	5064	3178	1886	1213	7366

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.

** Liters 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. (300mm would normally be sufficient.)

† Heaviest section is the coil section.

*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.

Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-770A to eco-ATC-1369A

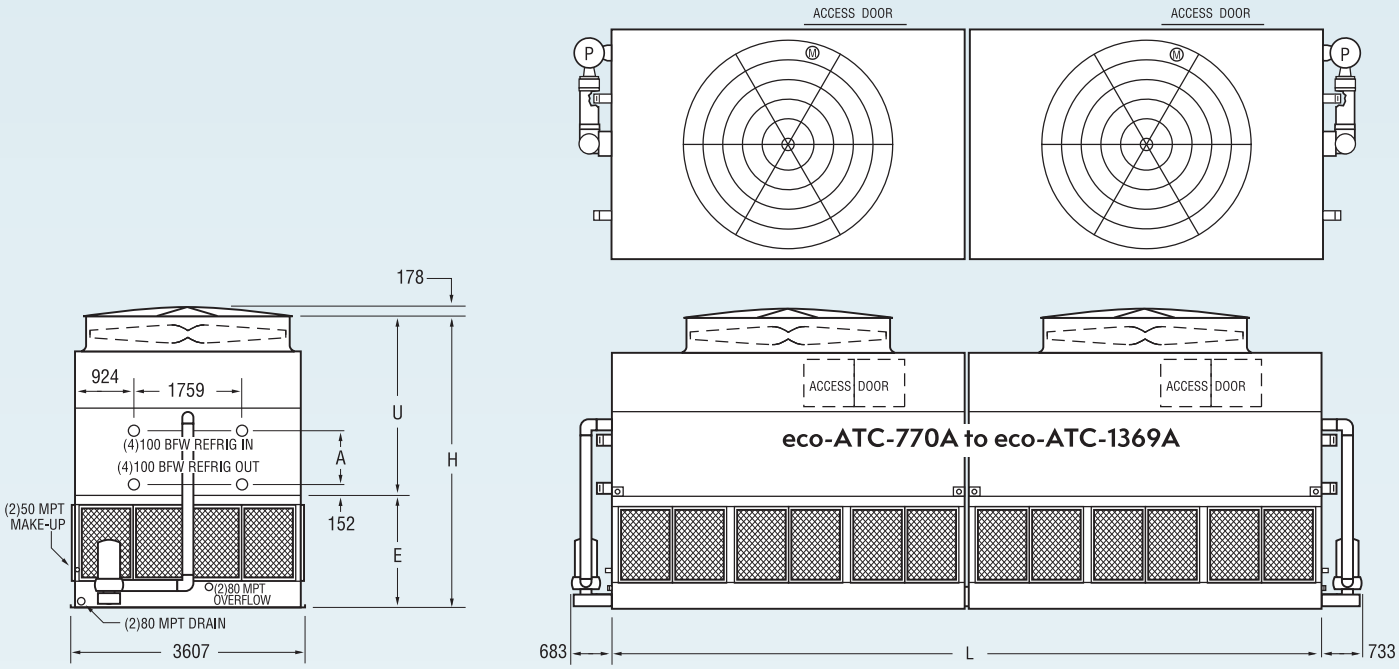


Table 27 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-770A	547	(2) 11	80.9	14,150	21,020	5,690	220	1873	(2) 4	113.6	5180	(2) 300	16,875	4505	2315	2191	349	8585
eco-ATC-815A	579	(2) 15	89.1	14,205	21,075	5,715	220	1873	(2) 4	113.6	5180	(2) 300	16,930	4505	2315	2191	349	8585
eco-ATC-853A	605	(2) 18.5	95.9	14,235	21,100	5,730	220	1873	(2) 4	113.6	5180	(2) 300	16,955	4505	2315	2191	349	8585
eco-ATC-881A	625	(2) 22	102.0	14,280	21,145	5,750	220	1873	(2) 4	113.6	5180	(2) 300	17,000	4505	2315	2191	349	8585
eco-ATC-942A	669	(2) 11	79.6	17,470	24,540	7,350	322	2736	(2) 4	113.6	5180	(2) 300	20,395	4721	2530	2191	565	8585
eco-ATC-998A	708	(2) 15	87.5	17,525	24,595	7,375	322	2736	(2) 4	113.6	5180	(2) 300	20,450	4721	2530	2191	565	8585
eco-ATC-1045A	742	(2) 18.5	94.1	17,555	24,620	7,390	322	2736	(2) 4	113.6	5180	(2) 300	20,475	4721	2530	2191	565	8585
eco-ATC-1064A	755	(2) 11	77.2	20,845	28,105	9,035	423	3599	(2) 4	113.6	5180	(2) 300	23,960	4937	2746	2191	781	8585
eco-ATC-1077A	764	(2) 22	99.1	17,600	24,665	7,410	322	2736	(2) 4	113.6	5180	(2) 300	20,520	4721	2530	2191	565	8585
eco-ATC-1127A	800	(2) 11	74.9	24,015	31,470	10,620	525	4462	(2) 4	113.6	5180	(2) 300	27,325	5153	2962	2191	997	8585
eco-ATC-1129A	801	(2) 15	85.0	20,900	28,160	9,065	423	3599	(2) 4	113.6	5180	(2) 300	24,015	4937	2746	2191	781	8585
eco-ATC-1149A	815	(2) 11	72.6	27,680	35,325	12,450	626	5325	(2) 4	113.6	5180	(2) 300	31,180	5369	3178	2191	1213	8585
eco-ATC-1195A	848	(2) 15	82.4	24,065	31,525	10,645	525	4462	(2) 4	113.6	5180	(2) 300	27,380	5153	2962	2191	997	8585
eco-ATC-1216A	863	(2) 22	96.2	20,975	28,230	9,100	423	3599	(2) 4	113.6	5180	(2) 300	24,085	4937	2746	2191	781	8585
eco-ATC-1218A	864	(2) 15	79.9	27,730	35,380	12,480	626	5325	(2) 4	113.6	5180	(2) 300	31,235	5369	3178	2191	1213	8585
eco-ATC-1274A	904	(2) 18.5	85.9	27,760	35,405	12,490	626	5325	(2) 4	113.6	5180	(2) 300	31,260	5369	3178	2191	1213	8585
eco-ATC-1288A	914	(2) 22	93.3	24,140	31,595	10,680	525	4462	(2) 4	113.6	5180	(2) 300	27,450	5153	2962	2191	997	8585
eco-ATC-1312A	931	(2) 22	90.4	27,805	35,455	12,515	626	5325	(2) 4	113.6	5180	(2) 300	31,305	5369	3178	2191	1213	8585
eco-ATC-1344A	954	(2) 30	101.2	24,285	31,740	10,755	525	4462	(2) 4	113.6	5180	(2) 300	27,595	5153	2962	2191	997	8585
eco-ATC-1369A	971	(2) 30	98.0	27,950	35,600	12,585	626	5325	(2) 4	113.6	5180	(2) 300	31,450	5369	3178	2191	1213	8585

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.
** Liters 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. (300mm would normally be sufficient.)
† Heaviest section is the coil section.
*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.
Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-1020A to eco-ATC-1847A

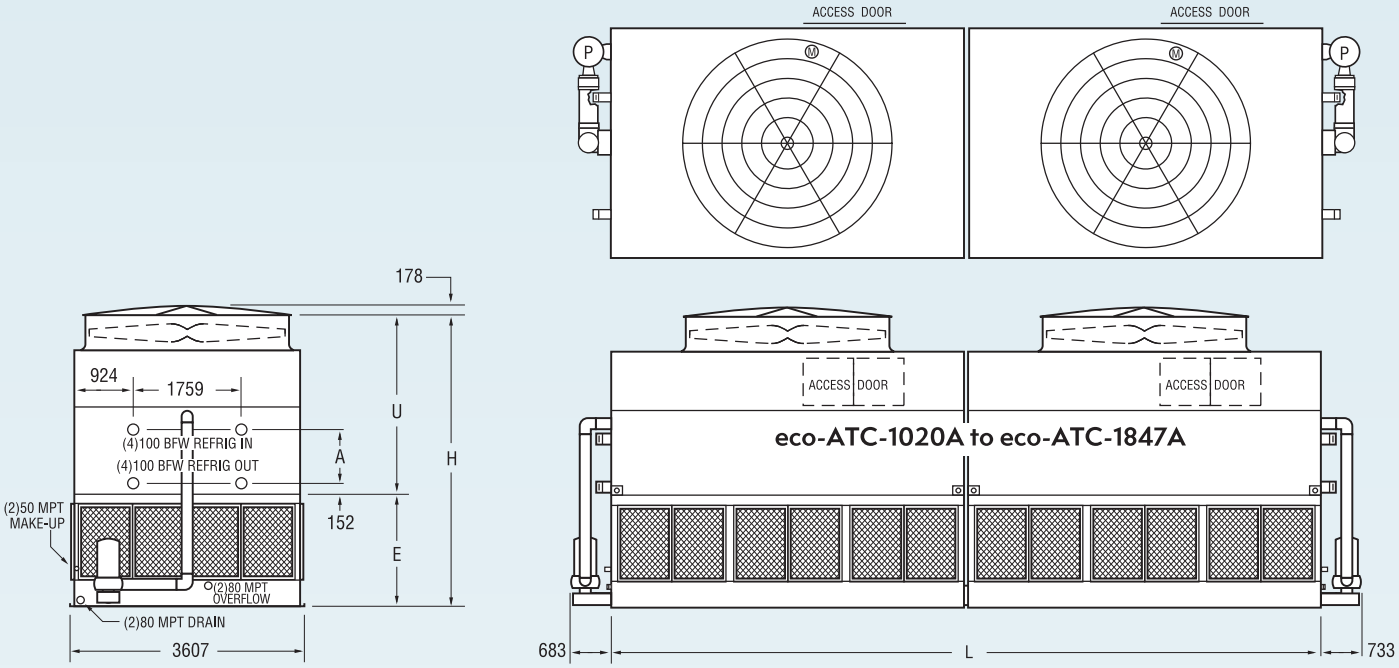


Table 28 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight† (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-1020A	724	(2) 15	110.0	17,890	26,680	7,165	279	2375	(2) 5.5	151.4	6550	(2) 300	21,355	4505	2315	2191	349	11036
eco-ATC-1076A	764	(2) 18.5	118.5	17,915	26,705	7,180	279	2375	(2) 5.5	151.4	6550	(2) 300	21,380	4505	2315	2191	349	11036
eco-ATC-1125A	798	(2) 22	126.0	17,960	26,755	7,205	279	2375	(2) 5.5	151.4	6550	(2) 300	21,430	4505	2315	2191	349	11036
eco-ATC-1249A	886	(2) 15	107.0	22,045	31,080	9,245	410	3489	(2) 5.5	151.4	6550	(2) 300	25,755	4721	2530	2191	565	11036
eco-ATC-1294A	918	(2) 11	94.4	26,310	35,600	11,375	541	4603	(2) 5.5	151.4	6550	(2) 300	30,275	4937	2746	2191	781	11036
eco-ATC-1317A	935	(2) 18.5	115.3	22,070	31,105	9,260	410	3489	(2) 5.5	151.4	6550	(2) 300	25,780	4721	2530	2191	565	11036
eco-ATC-1376A	976	(2) 22	122.5	22,115	31,155	9,280	410	3489	(2) 5.5	151.4	6550	(2) 300	25,825	4721	2530	2191	565	11036
eco-ATC-1400A	993	(2) 15	103.9	26,365	35,650	11,405	541	4603	(2) 5.5	151.4	6550	(2) 300	30,325	4937	2746	2191	781	11036
eco-ATC-1416A	1005	(2) 11	88.7	34,700	44,495	15,570	803	6832	(2) 5.5	151.4	6550	(2) 300	39,170	5369	3178	2191	1213	11036
eco-ATC-1488A	1056	(2) 18.5	111.7	26,390	35,680	11,415	541	4603	(2) 5.5	151.4	6550	(2) 300	30,355	4937	2746	2191	781	11036
eco-ATC-1514A	1074	(2) 15	97.6	34,755	44,550	15,600	803	6832	(2) 5.5	151.4	6550	(2) 300	39,225	5369	3178	2191	1213	11036
eco-ATC-1554A	1103	(2) 22	118.9	26,435	35,725	11,440	541	4603	(2) 5.5	151.4	6550	(2) 300	30,400	4937	2746	2191	781	11036
eco-ATC-1570A	1114	(2) 18.5	108.5	30,565	40,105	13,505	672	5718	(2) 5.5	151.4	6550	(2) 300	34,780	5153	2962	2191	997	11036
eco-ATC-1598A	1134	(2) 18.5	105.2	34,780	44,580	15,615	803	6832	(2) 5.5	151.4	6550	(2) 300	39,255	5369	3178	2191	1213	11036
eco-ATC-1641A	1164	(2) 22	115.3	30,610	40,150	13,525	672	5718	(2) 5.5	151.4	6550	(2) 300	34,825	5153	2962	2191	997	11036
eco-ATC-1669A	1184	(2) 22	111.7	34,825	44,625	15,635	803	6832	(2) 5.5	151.4	6550	(2) 300	39,300	5369	3178	2191	1213	11036
eco-ATC-1738A	1233	(2) 30	125.1	30,755	40,295	13,600	672	5718	(2) 5.5	151.4	6550	(2) 300	34,970	5153	2962	2191	997	11036
eco-ATC-1770A	1256	(2) 30	121.2	34,970	44,770	15,710	803	6832	(2) 5.5	151.4	6550	(2) 300	39,445	5369	3178	2191	1213	11036
eco-ATC-1847A	1310	(2) 37	129.0	34,980	44,780	15,710	803	6832	(2) 5.5	151.4	6550	(2) 300	39,455	5369	3178	2191	1213	11036

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.
** Liters 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. (300mm would normally be sufficient.)
† Heaviest section is the coil section.
*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.
Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-1120A to eco-ATC-1993A

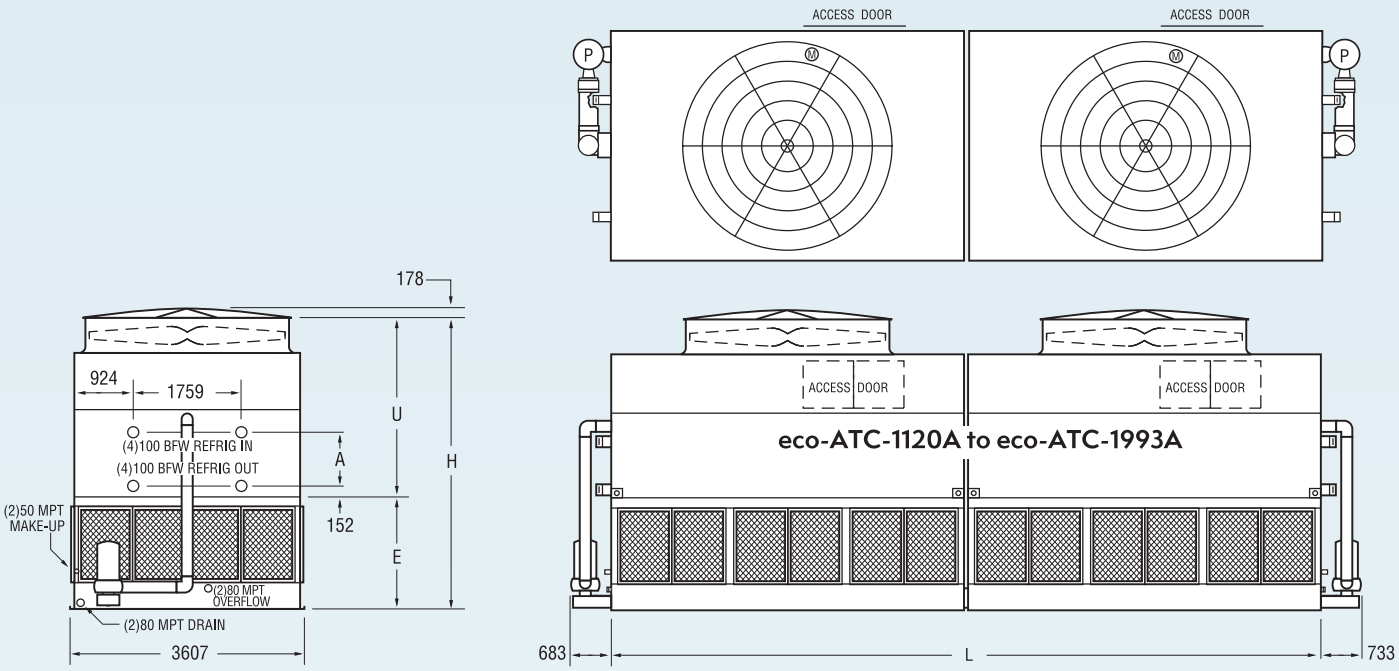


Table 29 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-1120A	795	(2) 18.5	126.2	19,670	29,530	7,790	309	2626	(2) 7.5	176.6	7270	(2) 350	23,450	4505	2315	2191	349	12256
eco-ATC-1165A	827	(2) 22	134.0	19,715	29,575	7,810	309	2626	(2) 7.5	176.6	7270	(2) 350	23,495	4505	2315	2191	349	12256
eco-ATC-1239A	879	(2) 30	147.5	19,860	29,720	7,885	309	2626	(2) 7.5	176.6	7270	(2) 350	23,640	4505	2315	2191	349	12256
eco-ATC-1371A	973	(2) 18.5	123.7	24,375	34,520	10,140	455	3866	(2) 7.5	176.6	7270	(2) 350	28,440	4721	2530	2191	565	12256
eco-ATC-1426A	1012	(2) 22	131.5	24,420	34,565	10,165	455	3866	(2) 7.5	176.6	7270	(2) 350	28,485	4721	2530	2191	565	12256
eco-ATC-1517A	1076	(2) 30	143.4	24,565	34,710	10,240	455	3866	(2) 7.5	176.6	7270	(2) 350	28,630	4721	2530	2191	565	12256
eco-ATC-1553A	1102	(2) 18.5	120.1	29,130	39,555	12,520	600	5106	(2) 7.5	176.6	7270	(2) 350	33,475	4937	2746	2191	781	12256
eco-ATC-1615A	1146	(2) 22	127.6	29,175	39,600	12,540	600	5106	(2) 7.5	176.6	7270	(2) 350	33,520	4937	2746	2191	781	12256
eco-ATC-1642A	1165	(2) 18.5	116.4	33,775	44,470	14,840	746	6345	(2) 7.5	176.6	7270	(2) 350	38,390	5153	2962	2191	997	12256
eco-ATC-1718A	1219	(2) 30	139.3	29,320	39,745	12,615	600	5106	(2) 7.5	176.6	7270	(2) 350	33,665	4937	2746	2191	781	12256
eco-ATC-1735A	1231	(2) 22	119.8	38,945	49,920	17,425	892	7585	(2) 7.5	176.6	7270	(2) 350	43,845	5369	3178	2191	1213	12256
eco-ATC-1817A	1289	(2) 30	135.2	33,965	44,660	14,935	746	6345	(2) 7.5	176.6	7270	(2) 350	38,580	5153	2962	2191	997	12256
eco-ATC-1846A	1310	(2) 30	130.8	39,090	50,065	17,500	892	7585	(2) 7.5	176.6	7270	(2) 350	43,990	5369	3178	2191	1213	12256
eco-ATC-1897A	1346	(2) 37	143.9	33,975	44,670	14,940	746	6345	(2) 7.5	176.6	7270	(2) 350	38,590	5153	2962	2191	997	12256
eco-ATC-1927A	1367	(2) 37	139.3	39,100	50,075	17,505	892	7585	(2) 7.5	176.6	7270	(2) 350	44,000	5369	3178	2191	1213	12256
eco-ATC-1993A	1414	(2) 60	146.6	39,280	50,260	17,595	892	7585	(2) 7.5	176.6	7270	(2) 350	44,180	5369	3178	2191	1213	12256

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.
** Liters 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. (300mm would normally be sufficient.)
† Heaviest section is the coil section.
*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.
Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-710A to eco-ATC-1264A

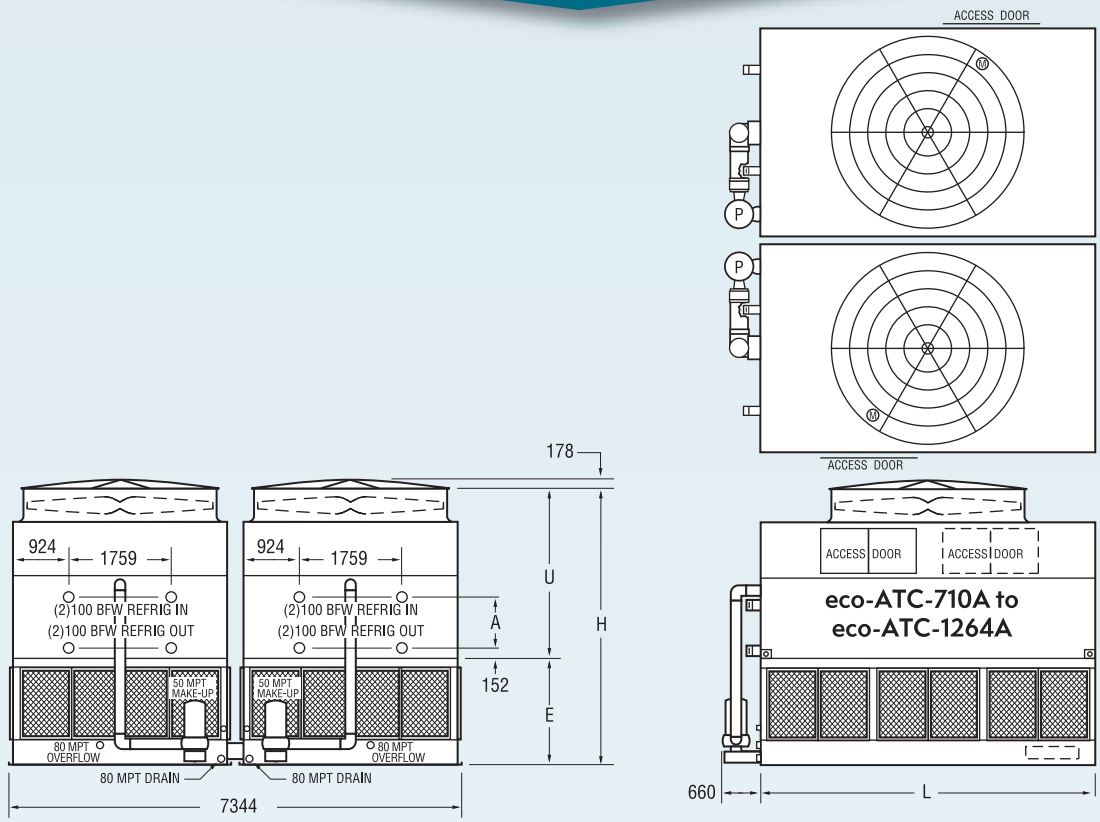


Table 30 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-710A	504	(2) 11	73.1	12,600	18,435	5,070	191	1621	(2) 4	100.9	4460	(2) 300	14,850	4201	2315	1886	349	3651
eco-ATC-787A	559	(2) 18.5	86.7	12,680	18,515	5,110	191	1621	(2) 4	100.9	4460	(2) 300	14,930	4201	2315	1886	349	3651
eco-ATC-796A	565	(2) 7.5	62.7	15,260	21,255	6,400	277	2359	(2) 4	100.9	4460	(2) 300	17,670	4416	2530	1886	565	3651
eco-ATC-871A	618	(2) 11	71.7	15,375	21,375	6,460	277	2359	(2) 4	100.9	4460	(2) 300	17,790	4416	2530	1886	565	3651
eco-ATC-926A	657	(2) 15	79.0	15,430	21,430	6,485	277	2359	(2) 4	100.9	4460	(2) 300	17,845	4416	2530	1886	565	3651
eco-ATC-951A	675	(2) 7.5	59.1	20,900	27,235	9,220	451	3834	(2) 4	100.9	4460	(2) 300	23,650	4848	2962	1886	997	3651
eco-ATC-963A	683	(2) 18.5	84.2	15,460	21,455	6,500	277	2359	(2) 4	100.9	4460	(2) 300	17,870	4416	2530	1886	565	3651
eco-ATC-971A	689	(2) 7.5	57.3	23,815	30,310	10,680	538	4572	(2) 4	100.9	4460	(2) 300	26,725	5064	3178	1886	1213	3651
eco-ATC-980A	696	(2) 11	69.7	18,270	24,440	7,905	364	3097	(2) 4	100.9	4460	(2) 300	20,855	4632	2746	1886	781	3651
eco-ATC-1039A	737	(2) 11	67.6	21,020	27,350	9,280	451	3834	(2) 4	100.9	4460	(2) 300	23,770	4848	2962	1886	997	3651
eco-ATC-1043A	740	(2) 15	76.7	18,325	24,495	7,935	364	3097	(2) 4	100.9	4460	(2) 300	20,910	4632	2746	1886	781	3651
eco-ATC-1062A	754	(2) 11	65.6	23,930	30,425	10,735	538	4572	(2) 4	100.9	4460	(2) 300	26,845	5064	3178	1886	1213	3651
eco-ATC-1084A	769	(2) 18.5	81.7	18,350	24,520	7,945	364	3097	(2) 4	100.9	4460	(2) 300	20,940	4632	2746	1886	781	3651
eco-ATC-1116A	792	(2) 22	86.0	18,400	24,565	7,970	364	3097	(2) 4	100.9	4460	(2) 300	20,985	4632	2746	1886	781	3651
eco-ATC-1132A	803	(2) 15	72.2	23,985	30,480	10,765	538	4572	(2) 4	100.9	4460	(2) 300	26,900	5064	3178	1886	1213	3651
eco-ATC-1152A	818	(2) 18.5	79.3	21,100	27,435	9,320	451	3834	(2) 4	100.9	4460	(2) 300	23,850	4848	2962	1886	997	3651
eco-ATC-1176A	835	(2) 18.5	76.8	24,015	30,510	10,775	538	4572	(2) 4	100.9	4460	(2) 300	26,925	5064	3178	1886	1213	3651
eco-ATC-1186A	842	(2) 22	83.5	21,145	27,480	9,345	451	3834	(2) 4	100.9	4460	(2) 300	23,895	4848	2962	1886	997	3651
eco-ATC-1211A	859	(2) 22	80.9	24,060	30,555	10,800	538	4572	(2) 4	100.9	4460	(2) 300	26,970	5064	3178	1886	1213	3651
eco-ATC-1264A	897	(2) 30	87.6	24,205	30,700	10,875	538	4572	(2) 4	100.9	4460	(2) 300	27,115	5064	3178	1886	1213	3651

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.

** Liters 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. (300mm would normally be sufficient.)

† Heaviest section is the coil section.

*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.
Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-816A to eco-ATC-1370A

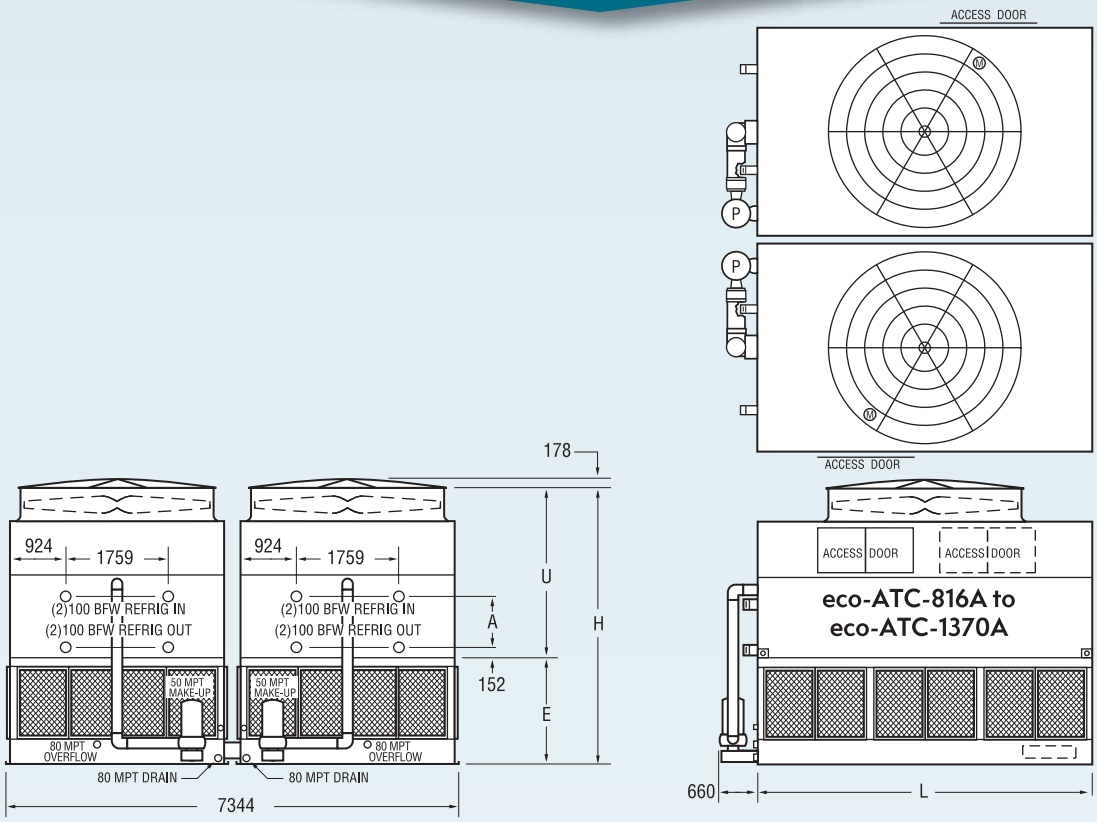


Table 31 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-816A	579	(2) 15	89.1	14,205	21,075	5,715	220	1873	(2) 4	113.6	5180	(2) 300	16,930	4505	2315	2191	349	4261
eco-ATC-854A	606	(2) 18.5	95.9	14,235	21,100	5,730	220	1873	(2) 4	113.6	5180	(2) 300	16,955	4505	2315	2191	349	4261
eco-ATC-880A	625	(2) 22	102.0	14,280	21,145	5,750	220	1873	(2) 4	113.6	5180	(2) 300	17,000	4505	2315	2191	349	4261
eco-ATC-943A	669	(2) 11	79.6	17,470	24,540	7,350	322	2736	(2) 4	113.6	5180	(2) 300	20,395	4721	2530	2191	565	4261
eco-ATC-999A	709	(2) 15	87.5	17,525	24,595	7,375	322	2736	(2) 4	113.6	5180	(2) 300	20,450	4721	2530	2191	565	4261
eco-ATC-1046A	742	(2) 18.5	94.1	17,555	24,620	7,390	322	2736	(2) 4	113.6	5180	(2) 300	20,475	4721	2530	2191	565	4261
eco-ATC-1078A	765	(2) 22	99.1	17,600	24,665	7,410	322	2736	(2) 4	113.6	5180	(2) 300	20,520	4721	2530	2191	565	4261
eco-ATC-1130A	802	(2) 15	85.0	20,900	28,160	9,065	423	3599	(2) 4	113.6	5180	(2) 300	24,015	4937	2746	2191	781	4261
eco-ATC-1196A	849	(2) 15	82.4	24,065	31,525	10,645	525	4462	(2) 4	113.6	5180	(2) 300	27,380	5153	2962	2191	997	4261
eco-ATC-1217A	864	(2) 22	96.2	20,975	28,230	9,100	423	3599	(2) 4	113.6	5180	(2) 300	24,085	4937	2746	2191	781	4261
eco-ATC-1219A	865	(2) 15	79.9	27,730	35,380	12,480	626	5325	(2) 4	113.6	5180	(2) 300	31,235	5369	3178	2191	1213	4261
eco-ATC-1251A	888	(2) 18.5	88.7	24,095	31,550	10,660	525	4462	(2) 4	113.6	5180	(2) 300	27,405	5153	2962	2191	997	4261
eco-ATC-1275A	905	(2) 18.5	85.9	27,760	35,405	12,490	626	5325	(2) 4	113.6	5180	(2) 300	31,260	5369	3178	2191	1213	4261
eco-ATC-1289A	915	(2) 22	93.3	24,140	31,595	10,680	525	4462	(2) 4	113.6	5180	(2) 300	27,450	5153	2962	2191	997	4261
eco-ATC-1345A	954	(2) 30	101.2	24,285	31,740	10,755	525	4462	(2) 4	113.6	5180	(2) 300	27,595	5153	2962	2191	997	4261
eco-ATC-1370A	972	(2) 30	98.0	27,950	35,600	12,585	626	5325	(2) 4	113.6	5180	(2) 300	31,450	5369	3178	2191	1213	4261

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.

** Liters 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. (300mm would normally be sufficient.)

† Heaviest section is the coil section.

*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.

Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-1021A to eco-ATC-1848A

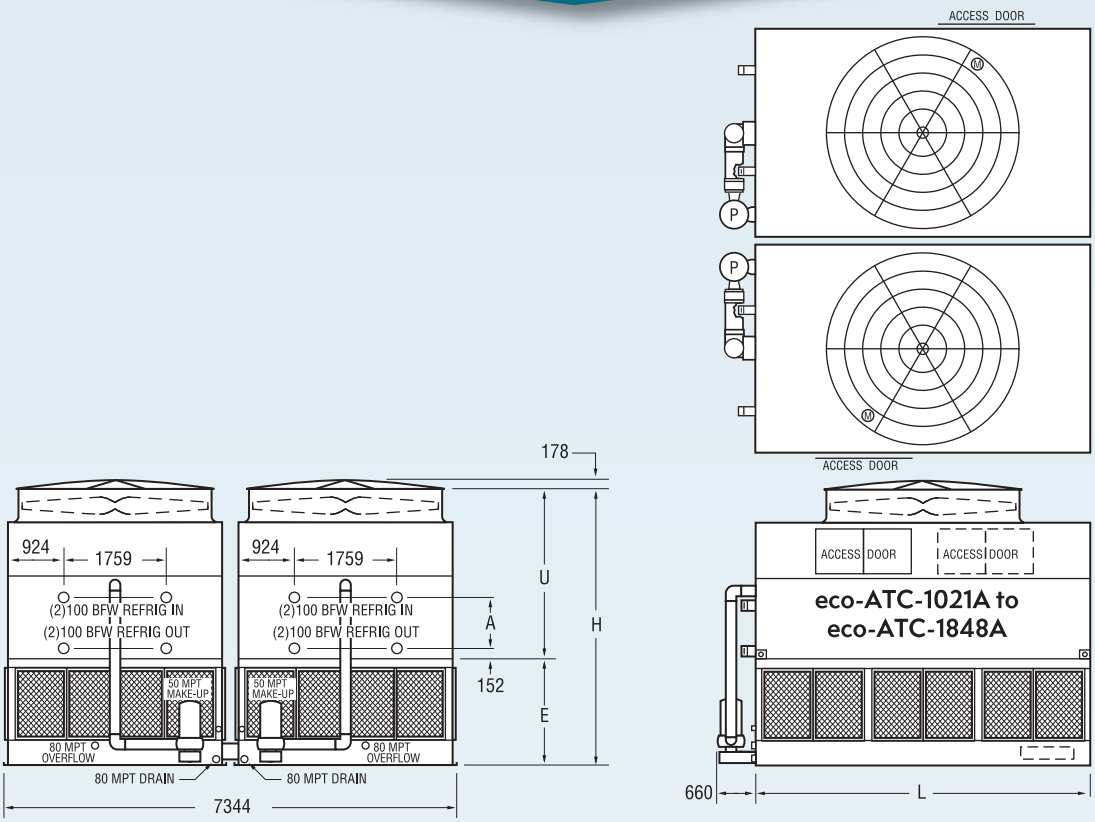


Table 32 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight* (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-1021A	725	(2) 15	110.0	17,890	26,680	7,165	279	2375	(2) 5.5	151.4	6550	(2) 300	21,355	4810	2315	2496	349	5486
eco-ATC-1079A	766	(2) 18.5	118.5	17,915	26,705	7,180	279	2375	(2) 5.5	151.4	6550	(2) 300	21,380	4810	2315	2496	349	5486
eco-ATC-1126A	799	(2) 22	126.0	17,960	26,755	7,205	279	2375	(2) 5.5	151.4	6550	(2) 300	21,430	4810	2315	2496	349	5486
eco-ATC-1250A	887	(2) 15	107.0	22,045	31,080	9,245	410	3489	(2) 5.5	151.4	6550	(2) 300	25,755	5026	2530	2496	565	5486
eco-ATC-1295A	919	(2) 11	94.4	26,310	35,600	11,375	541	4603	(2) 5.5	151.4	6550	(2) 300	30,275	5242	2746	2496	781	5486
eco-ATC-1377A	977	(2) 22	122.5	22,115	31,155	9,280	410	3489	(2) 5.5	151.4	6550	(2) 300	25,825	5026	2530	2496	565	5486
eco-ATC-1391A	987	(2) 11	91.5	30,480	40,025	13,465	672	5718	(2) 5.5	151.4	6550	(2) 300	34,700	5458	2962	2496	997	5486
eco-ATC-1401A	994	(2) 15	103.9	26,365	35,650	11,405	541	4603	(2) 5.5	151.4	6550	(2) 300	30,325	5242	2746	2496	781	5486
eco-ATC-1415A	1004	(2) 11	88.7	34,700	44,495	15,570	803	6832	(2) 5.5	151.4	6550	(2) 300	39,170	5674	3178	2496	1213	5486
eco-ATC-1491A	1058	(2) 15	100.7	30,535	40,080	13,490	672	5718	(2) 5.5	151.4	6550	(2) 300	34,755	5458	2962	2496	997	5486
eco-ATC-1515A	1075	(2) 15	97.6	34,755	44,550	15,600	803	6832	(2) 5.5	151.4	6550	(2) 300	39,225	5674	3178	2496	1213	5486
eco-ATC-1555A	1103	(2) 22	118.9	26,435	35,725	11,440	541	4603	(2) 5.5	151.4	6550	(2) 300	30,400	5242	2746	2496	781	5486
eco-ATC-1571A	1115	(2) 18.5	108.5	30,565	40,105	13,505	672	5718	(2) 5.5	151.4	6550	(2) 300	34,780	5458	2962	2496	997	5486
eco-ATC-1643A	1166	(2) 22	115.3	30,610	40,150	13,525	672	5718	(2) 5.5	151.4	6550	(2) 300	34,825	5458	2962	2496	997	5486
eco-ATC-1670A	1185	(2) 22	111.7	34,825	44,625	15,635	803	6832	(2) 5.5	151.4	6550	(2) 300	39,300	5674	3178	2496	1213	5486
eco-ATC-1739A	1234	(2) 30	125.1	30,755	40,295	13,600	672	5718	(2) 5.5	151.4	6550	(2) 300	34,970	5458	2962	2496	997	5486
eco-ATC-1769A	1255	(2) 30	121.2	34,970	44,770	15,710	803	6832	(2) 5.5	151.4	6550	(2) 300	39,445	5674	3178	2496	1213	5486
eco-ATC-1848A	1311	(2) 37	129.0	34,980	44,780	15,710	803	6832	(2) 5.5	151.4	6550	(2) 300	39,455	5674	3178	2496	1213	5486

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.

** Liters 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. (300mm would normally be sufficient.)

† Heaviest section is the coil section.

*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.

Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-1159A to eco-ATC-1983A

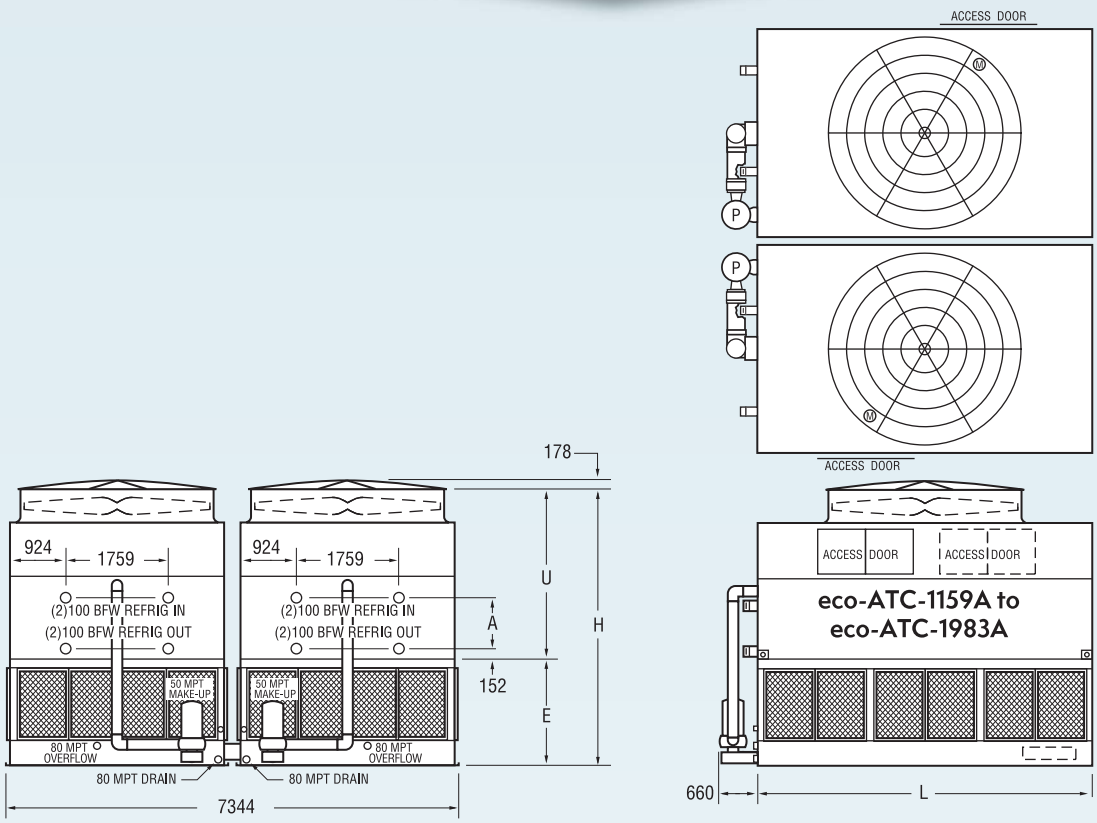


Table 33 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight* (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-1159A	822	(2) 22	133.4	19,715	29,575	7,810	309	2626	(2) 7.5	176.6	7270	(2) 350	23,495	4810	2315	2496	349	6096
eco-ATC-1233A	875	(2) 30	146.8	19,860	29,720	7,885	309	2626	(2) 7.5	176.6	7270	(2) 350	23,640	4810	2315	2496	349	6096
eco-ATC-1364A	968	(2) 18.5	123.1	24,375	34,520	10,140	455	3866	(2) 7.5	176.6	7270	(2) 350	28,440	5026	2530	2496	565	6096
eco-ATC-1419A	1007	(2) 22	130.8	24,420	34,565	10,165	455	3866	(2) 7.5	176.6	7270	(2) 350	28,485	5026	2530	2496	565	6096
eco-ATC-1510A	1071	(2) 30	142.7	24,565	34,710	10,240	455	3866	(2) 7.5	176.6	7270	(2) 350	28,630	5026	2530	2496	565	6096
eco-ATC-1607A	1140	(2) 22	127.0	29,175	39,600	12,540	600	5106	(2) 7.5	176.6	7270	(2) 350	33,520	5242	2746	2496	781	6096
eco-ATC-1671A	1186	(2) 22	123.1	33,820	44,515	14,865	746	6345	(2) 7.5	176.6	7270	(2) 350	38,435	5458	2962	2496	997	6096
eco-ATC-1709A	1213	(2) 30	138.6	29,320	39,745	12,615	600	5106	(2) 7.5	176.6	7270	(2) 350	33,665	5242	2746	2496	781	6096
eco-ATC-1726A	1225	(2) 22	119.2	38,945	49,920	17,425	892	7585	(2) 7.5	176.6	7270	(2) 350	43,845	5674	3178	2496	1213	6096
eco-ATC-1837A	1303	(2) 30	130.2	39,090	50,065	17,500	892	7585	(2) 7.5	176.6	7270	(2) 350	43,990	5674	3178	2496	1213	6096
eco-ATC-1888A	1340	(2) 37	143.1	33,975	44,670	14,940	746	6345	(2) 7.5	176.6	7270	(2) 350	38,590	5458	2962	2496	997	6096
eco-ATC-1917A	1360	(2) 37	138.6	39,100	50,075	17,505	892	7585	(2) 7.5	176.6	7270	(2) 350	44,000	5674	3178	2496	1213	6096
eco-ATC-1983A	1407	(2) 60	145.9	39,280	50,260	17,595	892	7585	(2) 7.5	176.6	7270	(2) 350	44,180	5674	3178	2496	1213	6096

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.

** Liters 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. (300mm would normally be sufficient.)

† Heaviest section is the coil section.

*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.

Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-1293A to eco-ATC-2515A

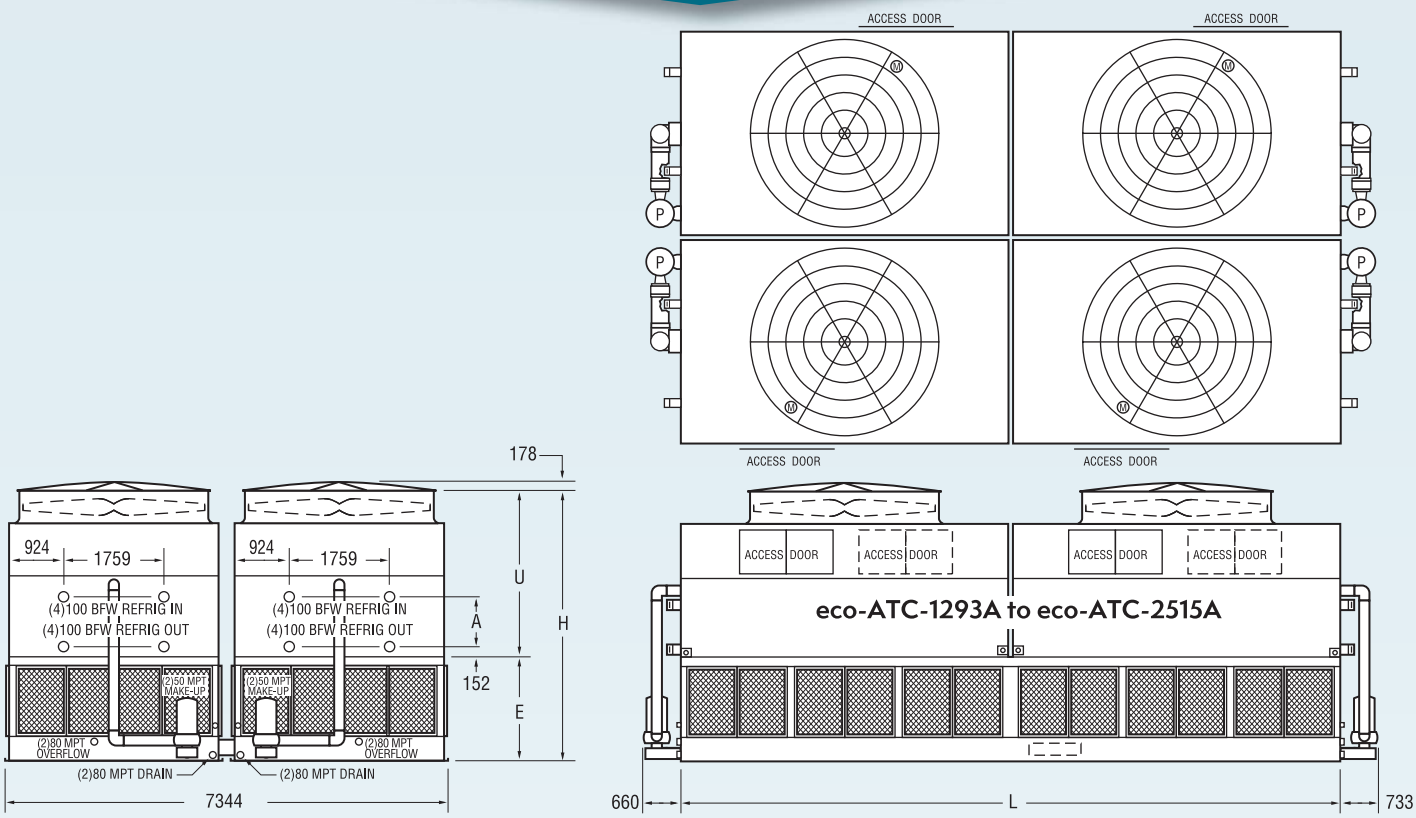


Table 34 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-1293A	918	(4) 7.5	127.8	25,120	36,795	5,010	381	3243	(4) 4	201.9	8910	(4) 300	29,510	4810	2315	2496	349	7366
eco-ATC-1413A	1003	(4) 11	146.2	25,355	37,030	5,070	381	3243	(4) 4	201.9	8910	(4) 300	29,745	4810	2315	2496	349	7366
eco-ATC-1565A	1110	(4) 18.5	173.3	25,520	37,195	5,110	381	3243	(4) 4	201.9	8910	(4) 300	29,910	4810	2315	2496	349	7366
eco-ATC-1730A	1227	(4) 11	143.5	30,910	42,910	6,460	555	4718	(4) 4	201.9	8910	(4) 300	35,625	5026	2530	2496	565	7366
eco-ATC-1782A	1264	(4) 7.5	121.7	36,460	48,805	7,845	728	6193	(4) 4	201.9	8910	(4) 300	41,520	5242	2746	2496	781	7366
eco-ATC-1843A	1308	(4) 15	158.0	31,015	43,020	6,485	555	4718	(4) 4	201.9	8910	(4) 300	35,735	5026	2530	2496	565	7366
eco-ATC-1892A	1342	(4) 7.5	118.1	41,955	54,630	9,220	902	7669	(4) 4	201.9	8910	(4) 300	47,345	5458	2962	2496	997	7366
eco-ATC-1916A	1359	(4) 18.5	168.4	31,070	43,075	6,500	555	4718	(4) 4	201.9	8910	(4) 300	35,790	5026	2530	2496	565	7366
eco-ATC-1933A	1371	(4) 7.5	114.5	47,780	60,780	10,680	1075	9144	(4) 4	201.9	8910	(4) 300	53,495	5674	3178	2496	1213	7366
eco-ATC-1948A	1382	(4) 11	139.4	36,695	49,040	7,905	728	6193	(4) 4	201.9	8910	(4) 300	41,755	5242	2746	2496	781	7366
eco-ATC-2068A	1467	(4) 11	135.3	42,195	54,865	9,280	902	7669	(4) 4	201.9	8910	(4) 300	47,580	5458	2962	2496	997	7366
eco-ATC-2112A	1498	(4) 11	131.1	48,015	61,015	10,735	1075	9144	(4) 4	201.9	8910	(4) 300	53,730	5674	3178	2496	1213	7366
eco-ATC-2157A	1530	(4) 18.5	163.5	36,860	49,205	7,945	728	6193	(4) 4	201.9	8910	(4) 300	41,920	5242	2746	2496	781	7366
eco-ATC-2222A	1576	(4) 22	172.0	36,950	49,295	7,970	728	6193	(4) 4	201.9	8910	(4) 300	42,010	5242	2746	2496	781	7366
eco-ATC-2291A	1625	(4) 18.5	158.6	42,355	55,030	9,320	902	7669	(4) 4	201.9	8910	(4) 300	47,745	5458	2962	2496	997	7366
eco-ATC-2359A	1674	(4) 22	167.1	42,445	55,120	9,345	902	7669	(4) 4	201.9	8910	(4) 300	47,835	5458	2962	2496	997	7366
eco-ATC-2410A	1710	(4) 22	161.8	48,270	61,270	10,800	1075	9144	(4) 4	201.9	8910	(4) 300	53,985	5674	3178	2496	1213	7366
eco-ATC-2515A	1784	(4) 30	175.3	48,560	61,560	10,875	1075	9144	(4) 4	201.9	8910	(4) 300	54,275	5674	3178	2496	1213	7366

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.

** Liters 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. (300mm would normally be sufficient.)

† Heaviest section is the coil section.

*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.

Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-1493A to eco-ATC-2659A

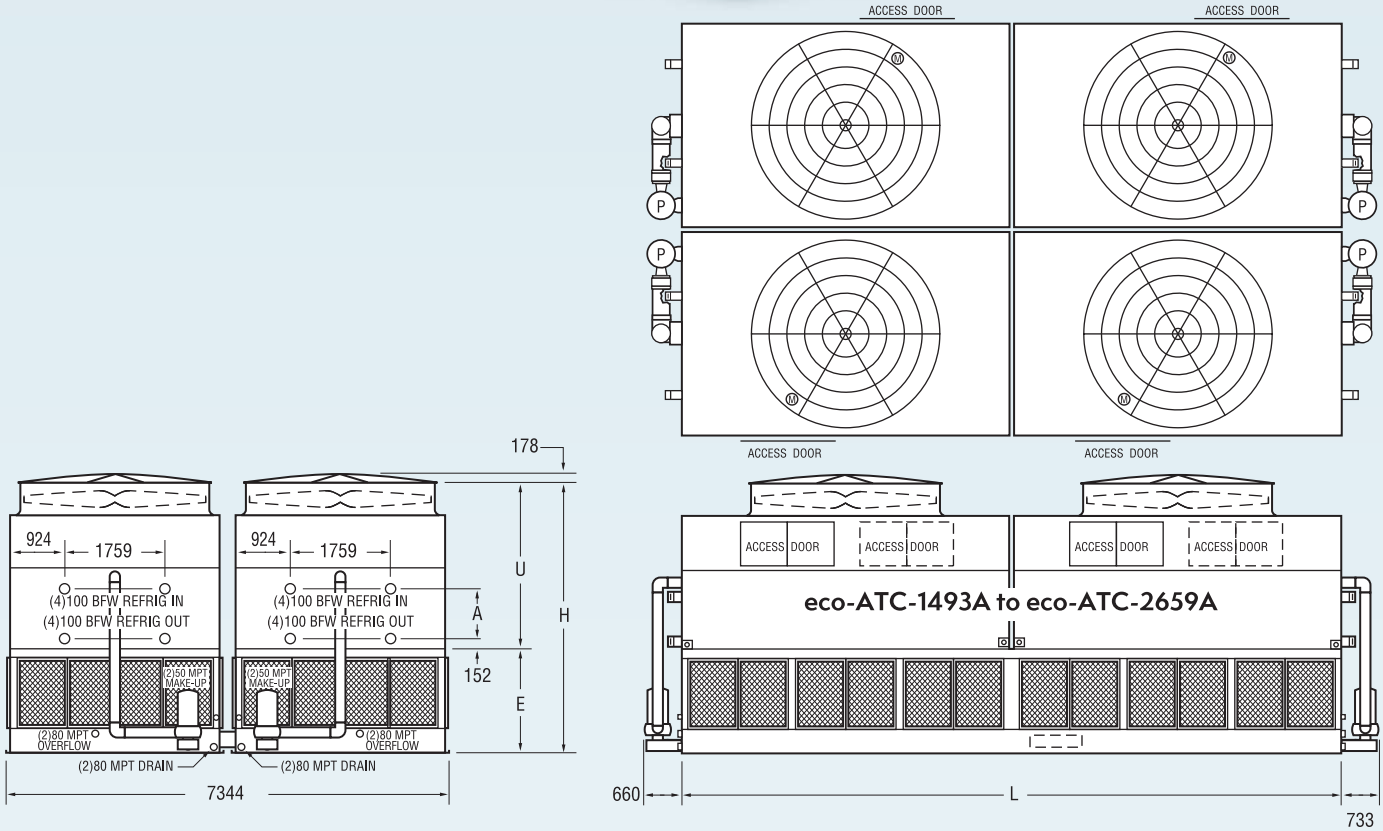


Table 35 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-1493A	1059	(4) 11	159.4	28,395	42,195	5,690	440	3745	(4) 4	227.1	10360	(4) 300	33,775	4810	2315	2496	349	8585
eco-ATC-1583A	1123	(4) 15	175.5	28,505	42,300	5,715	440	3745	(4) 4	227.1	10360	(4) 300	33,885	4810	2315	2496	349	8585
eco-ATC-1657A	1176	(4) 18.5	189.0	28,560	42,355	5,730	440	3745	(4) 4	227.1	10360	(4) 300	33,940	4810	2315	2496	349	8585
eco-ATC-1707A	1211	(4) 22	200.9	28,650	42,445	5,750	440	3745	(4) 4	227.1	10360	(4) 300	34,030	4810	2315	2496	349	8585
eco-ATC-1828A	1297	(4) 11	156.7	35,035	49,235	7,350	643	5471	(4) 4	227.1	10360	(4) 300	40,815	5026	2530	2496	565	8585
eco-ATC-1939A	1376	(4) 15	172.5	35,145	49,340	7,375	643	5471	(4) 4	227.1	10360	(4) 300	40,925	5026	2530	2496	565	8585
eco-ATC-2029A	1440	(4) 18.5	185.4	35,200	49,395	7,390	643	5471	(4) 4	227.1	10360	(4) 300	40,975	5026	2530	2496	565	8585
eco-ATC-2090A	1483	(4) 22	195.2	35,290	49,485	7,410	643	5471	(4) 4	227.1	10360	(4) 300	41,070	5026	2530	2496	565	8585
eco-ATC-2191A	1554	(4) 15	167.4	41,895	56,470	9,065	846	7198	(4) 4	227.1	10360	(4) 300	48,055	5242	2746	2496	781	8585
eco-ATC-2292A	1626	(4) 18.5	180.0	41,950	56,525	9,075	846	7198	(4) 4	227.1	10360	(4) 300	48,110	5242	2746	2496	781	8585
eco-ATC-2361A	1675	(4) 22	189.5	42,040	56,615	9,100	846	7198	(4) 4	227.1	10360	(4) 300	48,200	5242	2746	2496	781	8585
eco-ATC-2427A	1722	(4) 18.5	174.7	48,280	63,260	10,660	1049	8924	(4) 4	227.1	10360	(4) 300	54,840	5458	2962	2496	997	8585
eco-ATC-2473A	1754	(4) 18.5	169.3	55,610	70,970	12,490	1252	10651	(4) 4	227.1	10360	(4) 300	62,550	5674	3178	2496	1213	8585
eco-ATC-2500A	1774	(4) 22	183.8	48,370	63,350	10,680	1049	8924	(4) 4	227.1	10360	(4) 300	54,930	5458	2962	2496	997	8585
eco-ATC-2548A	1808	(4) 22	178.2	55,700	71,060	12,515	1252	10651	(4) 4	227.1	10360	(4) 300	62,640	5674	3178	2496	1213	8585
eco-ATC-2609A	1851	(4) 30	199.3	48,660	63,640	10,755	1049	8924	(4) 4	227.1	10360	(4) 300	55,220	5458	2962	2496	997	8585
eco-ATC-2659A	1886	(4) 30	193.0	55,990	71,350	12,585	1252	10651	(4) 4	227.1	10360	(4) 300	62,930	5674	3178	2496	1213	8585

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.

** Liters 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. (300mm would normally be sufficient.)

† Heaviest section is the coil section.

*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.

Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-2182A to eco-ATC-3583A

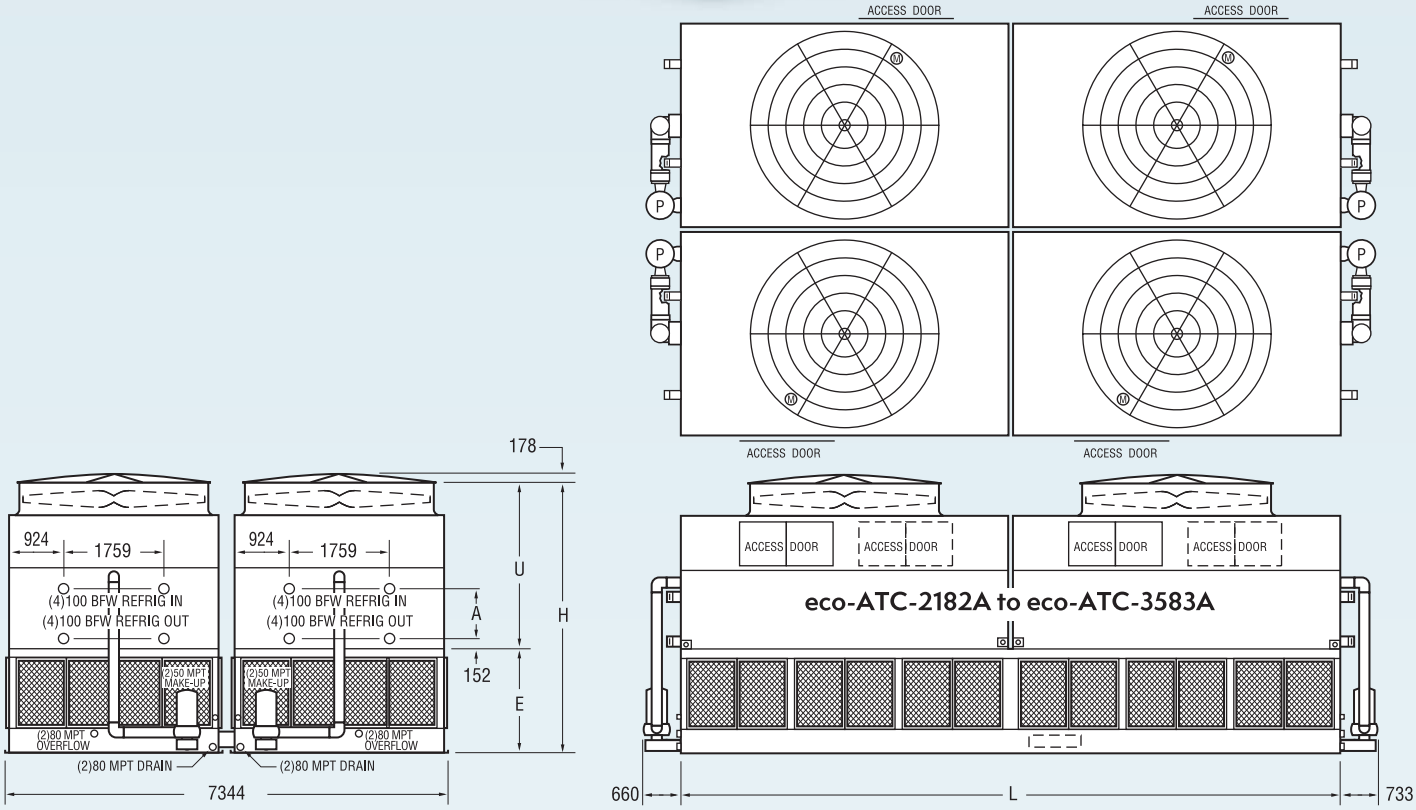


Table 36 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-2182A	1548	(4) 22	248.2	35,980	53,650	7,205	558	4750	(4) 5.5	302.8	13090	(4) 300	42,865	4810	2315	2496	349	11036
eco-ATC-2423A	1719	(4) 15	210.7	44,145	62,305	9,245	820	6978	(4) 5.5	302.8	13090	(4) 300	51,520	5026	2530	2496	565	11036
eco-ATC-2510A	1781	(4) 11	186.0	52,670	71,340	11,375	1082	9207	(4) 5.5	302.8	13090	(4) 300	60,555	5242	2746	2496	781	11036
eco-ATC-2557A	1814	(4) 18.5	227.0	44,200	62,360	9,260	820	6978	(4) 5.5	302.8	13090	(4) 300	51,575	5026	2530	2496	565	11036
eco-ATC-2671A	1895	(4) 22	241.2	44,290	62,450	9,280	820	6978	(4) 5.5	302.8	13090	(4) 300	51,665	5026	2530	2496	565	11036
eco-ATC-2696A	1913	(4) 11	180.2	61,015	80,195	13,465	1345	11435	(4) 5.5	302.8	13090	(4) 300	69,410	5458	2962	2496	997	11036
eco-ATC-2717A	1927	(4) 15	204.7	52,780	71,450	11,405	1082	9207	(4) 5.5	302.8	13090	(4) 300	60,665	5242	2746	2496	781	11036
eco-ATC-2747A	1949	(4) 11	174.7	69,455	89,140	15,570	1607	13664	(4) 5.5	302.8	13090	(4) 300	78,355	5674	3178	2496	1213	11036
eco-ATC-2888A	2049	(4) 18.5	220.1	52,835	71,505	11,415	1082	9207	(4) 5.5	302.8	13090	(4) 300	60,720	5242	2746	2496	781	11036
eco-ATC-2939A	2085	(4) 15	192.3	69,565	89,250	15,600	1607	13664	(4) 5.5	302.8	13090	(4) 300	78,460	5674	3178	2496	1213	11036
eco-ATC-3018A	2141	(4) 22	234.3	52,925	71,595	11,440	1082	9207	(4) 5.5	302.8	13090	(4) 300	60,810	5242	2746	2496	781	11036
eco-ATC-3185A	2259	(4) 22	227.0	61,270	80,450	13,525	1345	11435	(4) 5.5	302.8	13090	(4) 300	69,660	5458	2962	2496	997	11036
eco-ATC-3239A	2298	(4) 22	220.1	69,710	89,395	15,635	1607	13664	(4) 5.5	302.8	13090	(4) 300	78,605	5674	3178	2496	1213	11036
eco-ATC-3374A	2393	(4) 30	246.5	61,560	80,740	13,600	1345	11435	(4) 5.5	302.8	13090	(4) 300	69,955	5458	2962	2496	997	11036
eco-ATC-3431A	2434	(4) 30	238.8	70,000	89,685	15,710	1607	13664	(4) 5.5	302.8	13090	(4) 300	78,895	5674	3178	2496	1213	11036
eco-ATC-3583A	2542	(4) 37	254.2	70,015	89,700	15,710	1607	13664	(4) 5.5	302.8	13090	(4) 300	78,915	5674	3178	2496	1213	11036

* Tons at standard conditions: 96.3°F (35.7°C) condensing, 20°F (-6.7°C) suction and 78°F (25.6°C) W.B.

** Liters 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. (300mm would normally be sufficient.)

† Heaviest section is the coil section.

*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.

Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

Engineering & Dimensions Data
eco-ATC-2247A to eco-ATC-3846A

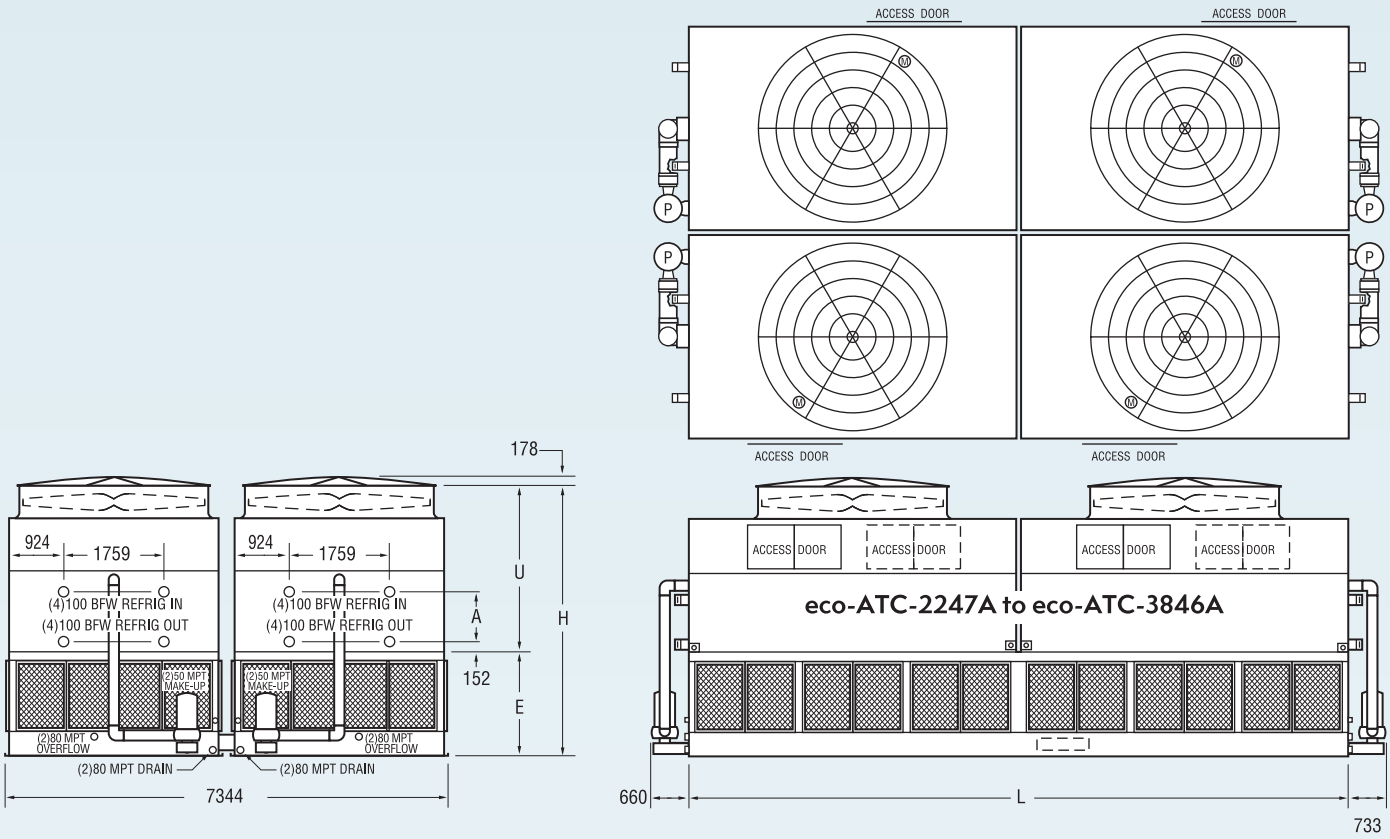


Table 37 Engineering Data

Model No.	R-717 Ton*	Fans		Weights (kg)†			Refrigerant Operating Charge (kg)***	Coil Volume (L)	Spray Pump		Remote Pump			Dimensions (mm)				
		kW	m³/s	Shipping	Operating	Heaviest Section†			kW	l/s	Liters Req'd**	Conn. Size (mm)	Operating Weight (kg)	Height H	Upper U	Lower E	Coil A	Length L
eco-ATC-2247A	1594	(4) 22	262.7	39,470	59,275	7,810	617	5252	(4) 7.5	353.3	14550	(4) 350	46,985	4810	2315	2496	349	12256
eco-ATC-2391A	1696	(4) 30	289.2	39,760	59,565	7,885	617	5252	(4) 7.5	353.3	14550	(4) 350	47,275	4810	2315	2496	349	12256
eco-ATC-2752A	1952	(4) 22	257.7	48,890	69,255	10,165	909	7731	(4) 7.5	353.3	14550	(4) 350	56,960	5026	2530	2496	565	12256
eco-ATC-2928A	2077	(4) 30	281.0	49,180	69,545	10,240	909	7731	(4) 7.5	353.3	14550	(4) 350	57,250	5026	2530	2496	565	12256
eco-ATC-3116A	2210	(4) 22	250.1	58,395	79,325	12,540	1201	10211	(4) 7.5	353.3	14550	(4) 350	67,030	5242	2746	2496	781	12256
eco-ATC-3169A	2248	(4) 18.5	228.1	67,595	89,065	14,840	1492	12691	(4) 7.5	353.3	14550	(4) 350	76,775	5458	2962	2496	997	12256
eco-ATC-3296A	2338	(4) 22	242.4	67,685	89,160	14,865	1492	12691	(4) 7.5	353.3	14550	(4) 350	76,865	5458	2962	2496	997	12256
eco-ATC-3315A	2352	(4) 30	273.0	58,685	79,615	12,615	1201	10211	(4) 7.5	353.3	14550	(4) 350	67,320	5242	2746	2496	781	12256
eco-ATC-3348A	2375	(4) 22	234.8	77,935	99,970	17,425	1784	15171	(4) 7.5	353.3	14550	(4) 350	87,680	5674	3178	2496	1213	12256
eco-ATC-3507A	2488	(4) 30	264.9	67,975	89,450	14,935	1492	12691	(4) 7.5	353.3	14550	(4) 350	77,155	5458	2962	2496	997	12256
eco-ATC-3562A	2527	(4) 30	256.4	78,225	100,260	17,500	1784	15171	(4) 7.5	353.3	14550	(4) 350	87,970	5674	3178	2496	1213	12256
eco-ATC-3661A	2597	(4) 37	281.9	67,995	89,465	14,940	1492	12691	(4) 7.5	353.3	14550	(4) 350	77,175	5458	2962	2496	997	12256
eco-ATC-3719A	2638	(4) 37	273.0	78,245	100,280	17,505	1784	15171	(4) 7.5	353.3	14550	(4) 350	87,985	5674	3178	2496	1213	12256
eco-ATC-3846A	2728	(4) 45	287.4	78,605	100,645	17,595	1784	15171	(4) 7.5	353.3	14550	(4) 350	88,350	5674	3178	2496	1213	12256

* Tons at standard conditions: 96.3˚F (35.7˚C) condensing, 20˚F (-6.7˚C) suction and 78˚F (25.6˚C) W.B.
** Liters 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. (300mm would normally be sufficient.)
† Heaviest section is the coil section.
*** Refrigerant charge is shown for R-717. Multiply by 1.93 for R-22 and 1.98 for R-134a.
Dimensions are subject to change. Do not use for pre-fabrication. Quantity of coil connections subject to change based on refrigerant and design conditions.

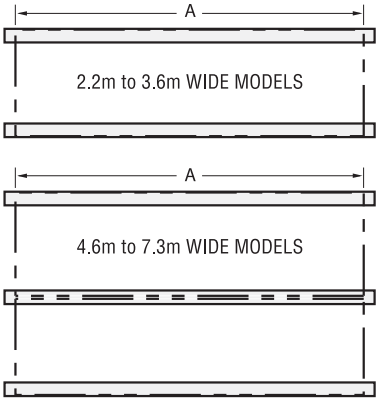
eco-ATC-A Steel Support

EVAPCO eco-ATC-A condensers are designed to be supported with structural "I" beams located under the outer flanges and running the entire length of the unit. Mounting holes, 19mm in diameter are located in the bottom channels of the pan section to provide for bolting to the structural steel. (Refer to certified drawings from the factory for bolt hole locations.)

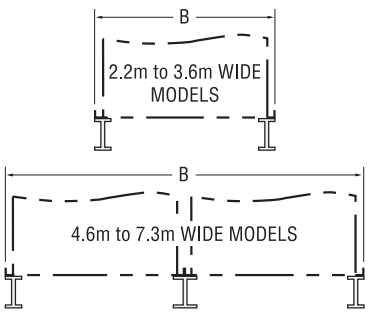
Beams should be level to within 1.5mm in 1m before setting the unit in place. Do not level the unit by shimming between it and the "I" beams as this will not provide proper longitudinal support.

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

Plan Views



End Elevations

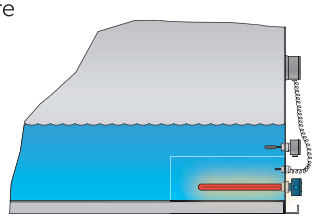


eco-ATC-A Steel Support		
2.2m Wide Models	**A**	**B**
eco-ATC-201A to 274A	2731	2235
eco-ATC-296A to 368A	3651	2235
eco-ATC-402A to 548A	5486	2235
eco-ATC-595A to 736A	7366	2235
eco-ATC-806A to 1096A	11036	2235
4.6m Wide Models		
eco-ATC-403A to 547A	2731	4601
eco-ATC-594A to 735A	3651	4601
eco-ATC-805A to 1095A	5486	4601
2.5m Wide Models	**A**	**B**
eco-ATC-122A to 263A	2578	2283
eco-ATC-160A to 326A	2731	2578
eco-ATC-205A to 394A	3188	2578
eco-ATC-225A to 434A	3651	2578
eco-ATC-269A to 504A	4261	2578
eco-ATC-395A to 671A	5486	2578
eco-ATC-451A to 804A	6401	2578
eco-ATC-444A to 862A	7366	2578
eco-ATC-590A to 1013A	8585	2578
5.2m Wide Models		
eco-ATC-441A to 857A	3651	5286
eco-ATC-528A to 988A	4261	5286
3m Wide Models	**A**	**B**
eco-ATC-300A to 501A	3651	2991
eco-ATC-391A to 694A	5486	2991
eco-ATC-642A to 1002A	7366	2991
eco-ATC-879A to 1388A	11036	2991
3.6m Wide Models	**A**	**B**
eco-ATC-325A to 632A	3651	3607
eco-ATC-408A to 685A	4261	3607
eco-ATC-432A to 923A	5486	3607
eco-ATC-585A to 1001A	6096	3607
eco-ATC-650A to 1263A	7366	3607
eco-ATC-770A to 1369A	8585	3607
eco-ATC-1020A to 1847A	11036	3607
eco-ATC-1120A to 1993A	12256	3607
7.3m Wide Models	**A**	**B**
eco-ATC-710A to 1264A	3651	7344
eco-ATC-816A to 1370A	4261	7344
eco-ATC-1021A to 1848A	5486	7344
eco-ATC-1159A to 1983A	6096	7344
eco-ATC-1293A to 2515A	7366	7344
eco-ATC-1493A to 2659A	8585	7344
eco-ATC-2182A to 3583A	11036	7344
eco-ATC-2247A to 3846A	12256	7344

eco-ATC-A Optional Equipment

Electric Heaters

Electric immersion heaters are available factory installed in the basin of the condenser. They are sized to maintain a +4°C to +5°C pan water temperature with the fans off and an ambient air temperature of -18°C, -29°C or -40°C. They are furnished with a thermostat to cycle the heater on when required and a low water protection device to prevent the heater elements 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.



Self Supporting Service Platforms

Condensers are available with self-supporting service platforms that include access ladders which are designed for easy field installation. This option offers significant savings in comparison to field constructed, externally supported catwalks. The Evapco service platform option is located at each maintenance access door.

eco-ATC-A Condenser with Optional Service Platform and Motor Davit

Motor Davit

In the event that a fan motor should need to be replaced, a lightweight motor davit is available from which a chain fall can be mounted to easily lower the motor to the ground.

eco-ATC-A Heater Sizes (kW)			
Models	**-18°C**	**-29°C**	**-40°C**
eco-ATC-201A to 274A	6	8	(2) 6
eco-ATC-296A to 368A	8	(2) 6	(2) 8
eco-ATC-402A to 548A	8	(2) 6	(2) 8
eco-ATC-595A to 736A	(2) 8	(4) 6	(4) 8
eco-ATC-806A to 1096A	(2) 8	(4) 6	(4) 8
eco-ATC-403A to 547A	(2) 6	(2) 8	(4) 6
eco-ATC-594A to 735A	(2) 8	(4) 6	(4) 8
eco-ATC-805A to 1095A	(2) 8	(4) 6	(4) 8
eco-ATC-122A to 263A	6	8	12
eco-ATC-160A to 326A	7	10	15
eco-ATC-205A to 394A	8	12	15
eco-ATC-225A to 434A	(2) 4	(2) 7	(2) 9
eco-ATC-269A to 504A	(2) 5	(2) 7	(2) 10
eco-ATC-395A to 671A	(2) 6	(2) 9	(2) 12
eco-ATC-451A to 804A	(2) 7	(2) 12	(2) 15
eco-ATC-444A to 862A	(4) 4	(4) 7	(4) 9
eco-ATC-590A to 1013A	(4) 5	(4) 7	(4) 10
eco-ATC-441A to 857A	(4) 4	(4) 7	(4) 9
eco-ATC-528A to 988A	(4) 5	(4) 7	(4) 10
eco-ATC-300A to 501A	(2) 5	(2) 8	(2) 10
eco-ATC-391A to 694A	(2) 7	(2) 12	(2) 15
eco-ATC-642A to 1002A	(4) 5	(4) 8	(4) 10
eco-ATC-879A to 1388A	(4) 7	(4) 12	(4) 15
eco-ATC-325A to 632A	(2) 6	(2) 9	(2) 12
eco-ATC-408A to 685A	(2) 7	(2) 10	(2) 15
eco-ATC-432A to 923A	(2) 9	(2) 15	(2) 18
eco-ATC-585A to 1001A	(2) 10	(2) 15	(3) 15
eco-ATC-650A to 1263A	(4) 6	(4) 9	(4) 12
eco-ATC-770A to 1369A	(4) 7	(4) 10	(4) 15
eco-ATC-1020A to 1847A	(4) 9	(4) 15	(4) 18
eco-ATC-1120A to 1993A	(4) 10	(4) 15	(6) 15
eco-ATC-710A to 1264A	(4) 6	(4) 9	(4) 12
eco-ATC-816A to 1370A	(4) 7	(4) 10	(4) 15
eco-ATC-1021A to 1848A	(4) 9	(4) 15	(4) 18
eco-ATC-1159A to 1983A	(4) 10	(4) 15	(4) 20
eco-ATC-1293A to 2515A	(4) 12	(4) 18	(6) 15
eco-ATC-1493A to 2659A	(4) 15	(4) 20	(6) 18
eco-ATC-2182A to 3583A	(4) 18	(6) 18	(8) 18
eco-ATC-2247A to 3846A	(4) 20	(6) 20	(8) 20

eco-ATC-A Optional Equipment

Electric Water Level Control

Evaporative condensers 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.

Two Speed Motors

Two speed fan motors can provide an excellent means of capacity control. In periods of lightened loads or reduced wet bulb temperatures, the fans can operate at low speed, which will provide about 60% of full speed capacity, yet consume only about 15% of the power compared with high speed. In addition to the energy savings, the sound levels of the units will be greatly reduced at low speed.

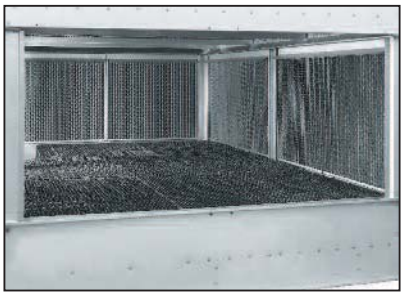
Sound Reduction Options

Super-Low Sound Fan

EVAPCO's Super Low Sound Fan utilizes an extremely wide chord blade design and is ideal for low energy, sound sensitive installations without sacrificing thermal performance. This revolutionary technology is heavy duty fiberglass reinforced polyester blade 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.

Water Silencer

The water silencer option, constructed of lightweight PVC sections, is located in the falling water area of the cold water basin. This option will reduce the overall sound levels 4 dB(A) to 7 dB(A), measured 1.5m from the side or end of the unit, with no impact on unit thermal performance. This option will also reduce the overall sound levels 9 dB(A) to 12 dB(A) when operating the condenser with the fans off and water circulating

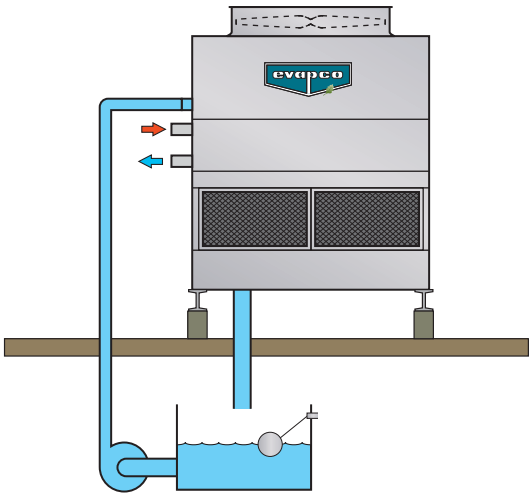


Stainless Steel Basin

eco-ATC-A condensers are available with an inexpensive all stainless steel basin section. This provides superior corrosion resistance over other materials of construction.

Remote Sump Configuration

For units operating in areas where temperatures may be very low, or where low temperatures may occur during periods when the unit is not operating, a sump located inside the building is the preferred means of ensuring that the basin water will not freeze. For these applications, the condenser will be supplied without the spray pump, suction strainers and all associated piping, but with an oversize bottom outlet.



Multiple Circuit Coils

Condensers may be supplied with multiple circuit coils to match various system requirements such as split systems, or if a glycol or water circuit is desired for compressor head cooling.

Additional Options Available – Please contact your local EVAPCO Sales Representative or the EVAPCO factory for assistance.

eco-ATC-A Application

Design

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

Structural Steel Support

The method of support for EVAPCO condensers is two structural "I" beams located under the outer flanges and running the entire length of the unit. Mounting holes 19mm in diameter, are located in the bottom channels 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 to within 1.5mm in 1m before setting the unit in place. Do not level the unit by shimming between it and the "I" beams as this will not provide proper longitudinal support.

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

Air Circulation

In reviewing the system design and unit location, 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. Care must be taken when locating condensers in wells or enclosures or next to high walls. The potential for recirculation of hot, moist discharge air back into the fan intake exists. Recirculation raises the wet bulb temperature of the entering air causing the condensing pressure to rise above the design. For these cases, a discharge hood or ductwork should be provided to raise the overall unit height even with the adjacent wall, thereby reducing the chance of recirculation. Good engineering practice dictates that the evaporative condenser's discharge air not be directed or located close to or in the vicinity of building air intakes. Engineering assistance is available from the factory to identify potential recirculation problems and recommend solutions.

For additional information regarding layout of evaporative condensers, see EVAPCO Bulletin entitled *"Equipment Layout"*.

Piping

Condenser piping should be designed and installed in accordance with generally accepted engineering practice. All piping should be anchored by properly designed hangers and supports with allowance made for possible expansion and contraction. No external loads should be placed upon condenser connections, nor should any of the pipe supports be anchored to the unit framework. For additional information concerning refrigerant pipe sizing and layout, see EVAPCO Bulletin entitled *"Piping Evaporative Condensers"* .

Maintaining the Recirculated Water System

The heat rejection in a condenser is accomplished by the evaporation of a portion of the recirculated spray water. As this water evaporates, it leaves behind all of its mineral content and impurities. Therefore, it is important to bleed-off an amount of water equal to that which is evaporated to prevent the build-up of these impurities. If this is not done, the mineral or the acidic nature of the water will continue to increase. This will ultimately result in heavy scaling or a corrosive condition.

Bleed-off

Each unit supplied with a pump mounted on the side is furnished with a clear bleed line for visual inspection and a valve which, when fully open, will bleed-off the proper amount of water. If the make-up water supplying the unit is relatively free of impurities, it may be possible to cut back the bleed, but the unit must be checked frequently to make sure scale is not forming. Make-up water pressure should be maintained between 140 and 340 kPa.

Water Treatment

A proper water treatment program is an essential part of routine maintenance in order to help assure proper operation and longevity of the unit. To help prevent the formation of "white rust", the interior of the unit should be passivated during start-up and monitored periodically as part of the water treatment program. For more information about white rust, please request a copy of EVAPCO Engineering Bulletin 36. A qualified water treatment company should be contacted to design a water treatment protocol specifically based on applicable location, water quality and unit materials of construction.

If acid is used for treatment, it should be accurately metered and the concentration properly controlled. **The pH of the water should be maintained between 6.5 and 8.0. Units constructed of galvanized steel operating with circulating water having a pH of 8.3 or higher will require periodic passivation of the galvanized steel to prevent the formation of "white rust".** Batch chemical feeding is not recommended because it does not afford the proper degree of control. If acid cleaning is required extreme caution must be exercised and only inhibited acids recommended for use with galvanized construction should be used.

NOTE: Operating the condenser below 6.0 pH for any period of time may cause the removal of the protective zinc coating on the galvanized steel components.

For more information see EVAPCO Bulletin entitled *"Maintenance Instructions"*.

Control of Biological Contamination

Water quality should be checked regularly for biological contamination, If biological contamination is detected, a more aggressive water treatment and mechanical cleaning program should be undertaken. The water treatment program should be performed in conjunction with a qualified water treatment company. It is important that all internal surfaces be kept clean of accumulated dirt and sludge. In addition, the drift eliminators should be maintained in good operating condition.

Solutions for Sound Sensitive Applications

The eco-ATC-A product line is now available with four (4) equipment options to reduce the overall sound generated from the side or top of the unit. Each option provides various levels of sound reduction and can be used in combination to provide the lowest sound level. If a detailed analysis or full octave band data sheet is required for your application, please consult your EVAPCO Sales Representative.

NOTE: These low sound options may impact the overall installed dimensions and weight of the unit.

eco-ATC-A Mechanical Specifications

Furnish and install, as shown on the plans, an EVAPCO model _____ induced draft, counterflow evaporative condenser with a condensing capacity of _____ kW total heat of rejection when operating with _____ refrigerant at _____ °C condensing temperature with a _____ °C design wet bulb temperature and a dry bulb switchover temperature of _____ °C.

IBC Compliance
The unit structure shall be designed, analyzed, and constructed in accordance with the latest edition of the International Building Code (IBC) Regulations for seismic loads up to _____g and wind loads up to ___kPa.

Basin and Casing
The basin and casing shall be constructed of G-235 hot-dip galvanized steel for long life and durability.
Standard basin accessories shall include overflow, drain, type 304 stainless steel strainers, and brass make-up valve with plastic float.

Models eco-ATC-201A to eco-ATC-988A
(Page 12 to 28 models)

Fan Motor
_____ kW totally enclosed fan cooled motors shall be furnished suitable for outdoor service on _____ volts, _____ hertz, and _____ phase. Motor(s) shall be mounted on an adjustable base which is accessible from the outside of the unit for service. A swing away protective cover shall shield the motor and sheave from the weather.

Drive
The fan drive shall be multigroove, solid back V-belt type with taper lock bushings designed for 150% of the motor nameplate horsepower. The belt material shall be neoprene reinforced with polyester cord and specifically designed for evaporative condenser service. Fan sheave shall be aluminum alloy construction. The fans and the fan sheaves shall be mounted on the shaft with a specially coated bushing to provide maximum corrosion protection. Belt adjustment shall be accomplished from the exterior of the unit. Bearing lube lines shall be extended to the exterior of the unit for easy maintenance.

Models eco-ATC-300A to eco-ATC-3846A
(Page 29 to 48 models)

Fan Motor
_____ kW totally enclosed air over ball bearing fan motor(s) shall be furnished suitable for service on _____ volts, _____ hertz, and _____ phase. Motor(s) shall be mounted on an adjustable base which allows the motor to swing to the outside of the unit for servicing.

Drive
The fan drive shall be a multigroove, solid back V-belt type with taper lock bushings designed for 150% of the motor nameplate horsepower. The belt material shall be neoprene reinforced with polyester cord and specifically designed for evaporative condense service. Fan and motor sheaves shall be aluminum alloy construction. The fans and fan sheaves shall be mounted on the shaft with a specially coated bushing to provide maximum corrosion protection. Belt adjustment shall be accomplished from the exterior of the unit. Bearing lube lines shall be extended to the exterior of the unit for easy maintenance.

Axial Propeller Fans
Fans shall be heavy duty axial propeller type statically balanced. The fans shall be constructed of aluminum alloy or fiberglass reinforced polypropylene blades, installed in a closely fitted cowl with venturi air inlet. Fan screens shall be galvanized steel mesh and frame, bolted to the fan cowl.

Fan Shaft Bearings
Fan shaft bearings shall be heavy duty self-aligning ball type with grease fittings extended to the outside of the unit. Bearings shall be designed for a minimum L-10 life of 75,000 hours.

Water Recirculation Pump
The pump(s) shall be a close-coupled, centrifugal type with mechanical seal, installed vertically at the factory to allow free drainage on shut down. _____ kW totally enclosed motor(s) shall be furnished suitable for outdoor service on _____ volts, _____ hertz, and _____ phase.

Heat Transfer Coil
Condensing coil(s) shall be all prime surface steel, encased in a steel framework and hot-dip galvanized after fabrication as a complete assembly. The coil(s) shall be designed with sloping tubes for free drainage of liquid refrigerant and shall be pneumatically tested at 2.69MPa, under water.

Water Distribution System
The system shall provide a water flow rate of 4 lps over each square meter of unit face area to ensure proper flooding of the coil. The spray header shall be constructed of schedule 40 polyvinyl chloride pipe for corrosion resistance. All spray branches shall be removable for cleaning. Heavy-duty ABS spray nozzles with large 32mm diameter opening and internal sludge ring to eliminate clogging. Nozzles shall be threaded into spray header to provide easy removal for maintenance.

Eliminators
The eliminators shall be constructed entirely of inert polyvinyl chloride (PVC) in easily handled sections. The eliminator design shall incorporate three changes in air direction to assure complete removal of all entrained moisture from the discharge air stream. Maximum drift rate shall be less than 0.001% of the circulating water rate.

Louvers
The louvers shall be constructed from polyvinyl chloride (PVC) and mounted in a rugged steel frame. The louvers shall be mounted in easily removable sections for access to the pan for maintenance. The louvers shall have a minimum of two changes in air direction to prevent splashout and block direct sunlight.

Finish
All basin and casing materials shall be constructed of G-235 heavy gauge mill hot-dip galvanized steel. During fabrication, all panel edges shall be coated with a 95% pure zinc-rich compound for superior protection against corrosion.

Notes

Notes

EVAPCO PRODUCTS ARE MANUFACTURED WORLDWIDE.

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