

CLOSED CIRCUIT COOLERS

ESW4

12' & 14' Wide Unit

UP TO
40%
MORE
CAPACITY



FEATURING



*Compared to our largest ESWB at nominal conditions

† Mark owned by the Cooling Technology Institute

About EVAPCO



EVAPCO for LIFE

EVAPCO is more than a name. We are the global innovator in heat transfer solutions for the commercial HVAC, industrial refrigeration, power and industrial process markets. We pledge to make everyday life easier, more comfortable, more reliable and more sustainable for people everywhere.

OUR COMMITMENT

We never stop innovating. We set out to find groundbreaking solutions that transform the way the world works for the better. It's why we have more than 48 active U.S. Patents and 144 foreign counterparts. We also guarantee performance and put every solution through rigorous research and testing to ensure maximum efficiency and reliability.



PROTECTING THE ENVIRONMENT

Innovation and environmental sustainability go hand-in-hand at EVAPCO. Our industrial heat transfer equipment not only conserves natural resources and helps reduce noise pollution, but also features recycled steel content in construction. Our stainless steel units are constructed of panels that contain up to 75% of recycled content and our galvanized units contain over 80%. From sound reduction to water conservation to chemical elimination, we are developing new technologies that deliver ultimate operating advantages to our clients while protecting the planet for every generation to come.



Full Spectrum Global Solutions



EVAPCO provides a full spectrum of global product solutions for the Commercial HVAC, Process Cooling, Industrial Refrigeration and Power Generation markets.

From the smallest factory assembled cooling tower to the largest field erected air-cooled steam condenser, we offer heat transfer products designed to meet the water and energy requirements for any project. We are committed to providing solutions that are energy efficient and conserve water.

Our latest heat transfer solutions are the eco-Air™ Series Dry Coolers, eco-Air Series Air Cooled Condensers, and eco-Air Series Adiabatic Coolers and Condensers. The eco-Air Series completes our successful eco-family of closed circuit coolers and condensers with water-saving dry and hybrid technology.

As an industry leader in independent, third-party performance certifications, our fully-rated products enable you to operate your cooling systems efficiently and with complete peace of mind.

The ESW4 series of closed circuit coolers offers unparalleled flexibility in a wide range of capacities, fan motor HP's and coil options.



The new ESW4 was designed to **MAXIMIZE** capacity and **OPTIMIZE** energy efficiency in EVAPCO's single largest closed circuit cooler cell available. Utilizing EVAPCO's **CHILLER** internal tube enhancement and patented elliptical tube design, the ESW4 provides the maximum evaporative capacity in a single factory-assembled cooler, **UP TO 40% MORE** than previous models.

The optimized ESW4 was developed *specifically* for high tonnage applications such as **DATA CENTERS, INDUSTRIAL PLANTS,** and **LARGE HVAC APPLICATIONS** where the end user requires the lowest energy consumption in the fewest amount of units, connections and fans.

ESW4 Applications



DATA CENTERS



INDUSTRIAL PROCESS



LARGE HVAC APPLICATIONS

The ESW4 is highly engineered with quality components and manufactured to exacting standards. The durable materials of construction ensure the longevity expected of EVAPCO products. The closed circuit coolers are designed in large factory-assembled sections for ease of installation and to reduce required field assembly. With the coil located outside of the air stream, heat transfer is achieved via sensible cooling, which eliminates water evaporation on the coil. This design greatly reduces scale build-up on the coil and, subsequently, the required downtime for maintenance. The ESW4 stands alone as being the most energy efficient axial fan closed circuit cooler on the market.

Features

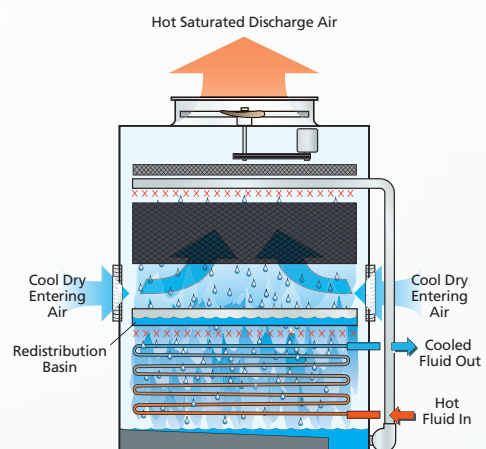


- OVER 130 MODELS providing unmatched versatility to meet the requirements of any application
- Highest IBC ratings in the industry, available with upgraded construction and 1.5 Importance Factor for critical facilities
- Wide array of fan motor kW options (15 kW to 75 kW)
- Available with FACTORY-MOUNTED Water Treatment.
- New Stainless Steel "Water Touch Basins" option. This option provides Stainless Steel for just the cold water basin and redistribution basin.

Principle of Operation

EVAPCO was the first to develop a closed circuit cooler with Patented Optimized Technology*. The pump is energized, and water is circulated up to the water distribution system. This starts with the large orifice EvapJet nozzles evenly distributing water as a thin film over the extended fill surface for maximum cooling efficiency. The fan system operates simultaneously, moving large volumes of air through the unit in a direction opposite the falling water. The air and water contact directly across the fill surface whereupon a small portion of the spray water is evaporated. The warm and saturated air is then discharged from the unit dissipating heat to the atmosphere. The spray water exits the fill section as a cooled fluid where it is collected by the redistribution basin for even soaking of the full footprint coil. The hot process fluid enters the coil through the bottom coil connection(s). The heat load is rejected to the circulating water that cascades over the coil surface by means of sensible heat transfer.

*US Patent #6,598,862



Features

The ESW family stands apart as being the most energy efficient and the quietest axial fan closed circuit coolers on the market today. The ESW4 is able to provide superior performance as a result of its optimized **Sensi-Coil®** Technology^{††}. The **Sensi-Coil®** features **CFD-Optimized** Internal Tube Enhancement that increases the internal heat transfer coefficient of the coil and thus increases the cooling capacity of the unit.

The ESW4's owner-oriented features and independent certification of the International Building Code (IBC) compliance reinforce the ESW4's position as a premier cooler in the HVAC industry.

Eurovent-CTI Certified Units



Easy to Maintain Drive System

- Adjustable motor base enables the motor to swing outside the unit for easy access
- Belt tension can be easily checked and adjusted from outside the access door
- Lubrication lines are extended to the access door for added convenience



Framed WST Air Inlet Louvers (Water and Sight Tight)

- Hardware-free louver design
- One-step removal for easy access
- Improved design to keep sunlight out – preventing biological growth
- Keeps water in while keeping dirt and debris out

U.S. Patent #7,927,196



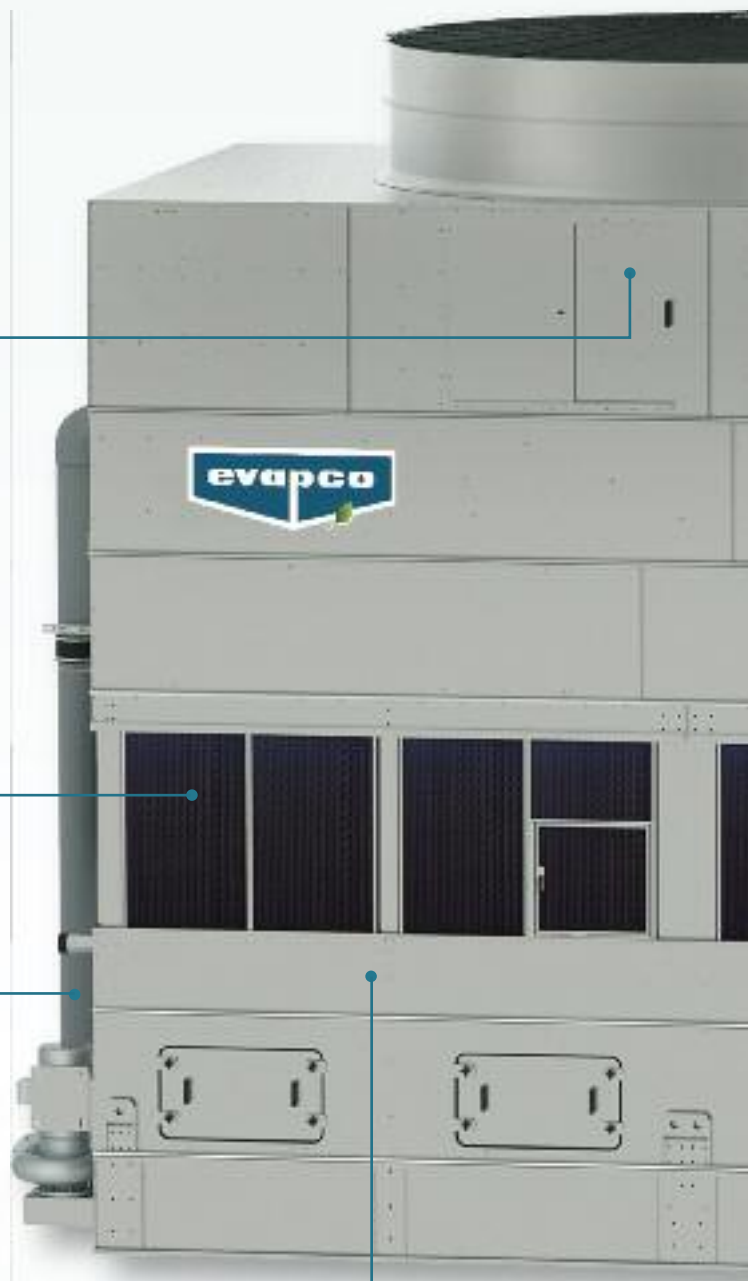
Optional Factory Mounted Non-Chemical or Chemical Water Treatment Systems

The ESW4 is available with either a **Pulse-Pure®** non-chemical or a **Smart Shield®** solid chemical water treatment system. The **Pulse-Pure®** and **Smart Shield®** are environmentally sensitive alternatives for treating water in evaporative cooled equipment. The **Pulse-Pure®** and **Smart Shield®** systems include all components required for an effective water treatment system; factory mounted and wired.



Redistribution Basin Section

- The redistribution basin ensures even water loading of the optimized **Sensi-Coil®**
- Large orifice nozzles prevent clogging
- Easily accessible for routine inspection



All features available on all ESW4 Models unless specified

† Mark owned by the Cooling Technology Institute

Super Low Sound Fan

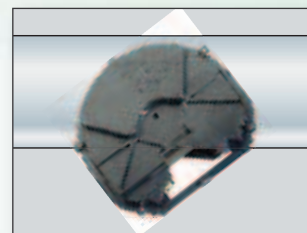
The ESW4 is available with Low Sound Solutions to reduce the overall sound generated from the top of the already quiet ESW4 Closed Circuit Cooler. Each option provides various levels of sound reduction and can be combined to provide the lowest sound level available on a closed circuit cooler.

- Select a Super Low Sound Fan for a 9 to 15 dB(A) reduction
- Select a Low Sound Fan for a 4 to 7 dB(A) reduction



Pressurized Water Distribution System

- Evapjet™ nozzles provide thermal performance gain
- Non-corrosive PVC construction
- Large orifice nozzles prevent clogging and are threaded for easy removal and positive positioning
- Each nozzle provides a large uniform spray pattern



EVAPAK® Fill *

- Induces highly turbulent mixing of the air and water for superior heat transfer
- Special drainage tips allow high water loading without excessive pressure drop
- Flame spread rating of 5 per ASTM E84-81a
- Can be used as an internal working platform



Galvanized Steel Coil

Elliptical Sensi-Coil™ Featuring CROSS-coil® Internal Tube Enhancement Technology

- Internal Tube Enhancement increases fluid turbulence providing additional capacity
- Elliptical return bends allows for more circuits per coil bundle increasing maximum capacity per footprint
- Coil located out of airstream eliminating water evaporation on the coil, reducing scale build-up potential
- Optional Type 304L and 316 Stainless Steel Coil Available

**U.S. Patent #7,296,620



CROSS-coil®
INTERNAL TUBE ENHANCEMENT



Most Accessible Basin and Coil

- Convenient side access from ground level
- Large open area simplifies maintenance
- Easy access to basin floor, float assembly and pump strainer

Design Benefits

Low Energy As Standard

The ESW4 product line stands alone as the most energy efficient closed circuit coolers on the market today. This efficiency, in terms of lower fan horsepower, translates directly to lower operating costs ... significantly lower operating costs. With the ESW4 installed, customers can realize immediate energy savings that continue each and every year for the life of the equipment.

Low Sound As Standard

In addition to being the most energy efficient axial fan fluid coolers, the ESW4 product line is also the quietest. At a distance of 1.5 m above the fan, the ESW4 has sound levels that are up to 13dBA less than other axial fan fluid coolers of equal capacity. Additionally, the coil sits just above the basin floor breaking the water fall and reducing water noise to the point where casual conversation is possible at only 1.5 m from the unit ... even with the fan running on high speed.

Research and Development

EVAPCO's research and development team considered the basic principles of heat transfer while developing the patented *Optimized Technology* that was used in the original ESWA closed circuit cooler. *Optimized Technology* combines "latent" heat transfer over the fill and "sensible" heat transfer over the coil to maximize heat transfer.

The ESW4 closed circuit cooler was developed to take *Optimized Technology* to the next level. The ESW4 features more capacity than ever before, up to 40%. This is accomplished by using EVAPCO's optimized **Sensi-Coil**®, featuring **Internal Tube Enhancement** Technology. By optimizing our coil design (US Patent # 7,296,620), and water redistribution over the coil, EVAPCO has achieved significant performance gains over the previous generation ESWB. This means more performance, a smaller footprint and less energy.

Other benefits of this unique counterflow design:

- The coil is easily piped at ground level.
- The coil is easily inspected and accessible at ground level via removable cover panels around the unit.
- Discharge hood with dampers are not required ... the dense coil pack and sheltered enclosure around the coil reduces heat loss and eliminates natural drafts across the coil.

EVAPAK® Fill

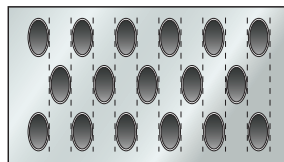
EVAPAK® fill is specially designed to induce highly turbulent mixing of the air and water for superior heat transfer. The fill media is constructed of polyvinyl chloride (PVC) sheets that are thermally formed into a cross flute design. The individual fill sheets are bonded together to form rigid fill blocks. The fill blocks are then stacked within the unit's protective casing. The structural strength of the assembled fill pack enables it to be used as a working platform.

EVAPAK® fill is impervious to rot and decay, and is self-extinguishing with a flame spread rating of 5 per ASTM Standard E84-81a.

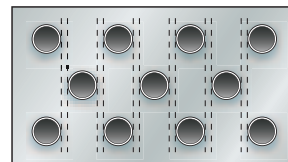


Cooling Coil

The ESW4 Closed Circuit Cooler utilizes EVAPCO's **Sensi-Coil**®, featuring **Internal Tube Enhancement**. The **Sensi-Coil**® provides the maximum amount of Thermal-Pak® elliptical tubes packed closely together in a coil arrangement designed with over 50% additional coil surface area.

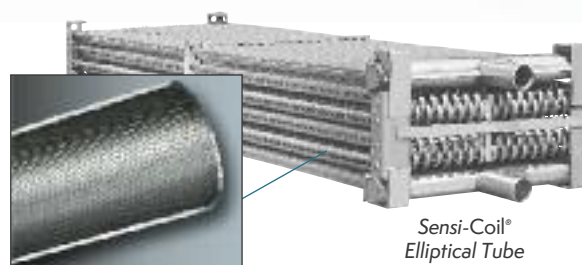


Sensi-Coil®



Round Tube Coil by Others

In addition, the **Sensi-Coil**® design utilizes elliptical return bend, coil technology. This increases the number of circuits per coil assembly, increasing the maximum cooling capacity per unit footprint. This **Sensi-Coil**® design features EVAPCO's **Internal Tube Enhancement**, creating more turbulence to the fluid as it passes through the coil, further increasing the evaporative capacity.



Sensi-Coil®
Elliptical Tube

U.S. Patent #7,296,620

Internal Tube Enhancement

The coils are manufactured from high quality steel tubing following the most stringent quality control procedures. Each circuit is inspected to ensure the material quality and then tested before being assembled into a coil. Finally, the assembled coil is pneumatically tested at 15 barg under water to ensure it is leak free.

To protect the coil against corrosion, it is placed in a heavy steel frame and then the entire assembly is dipped in molten zinc (hot-dip galvanized) at a temperature of approximately 427°C.

Note: Closed circuit coolers should only be used on sealed, pressurized systems. Continual aeration of the water in an open system can cause corrosion inside the tubes of the cooler leading to premature failure.

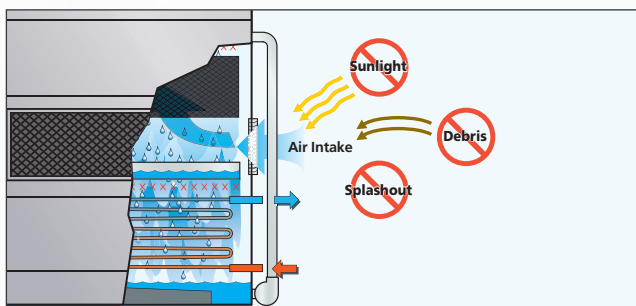
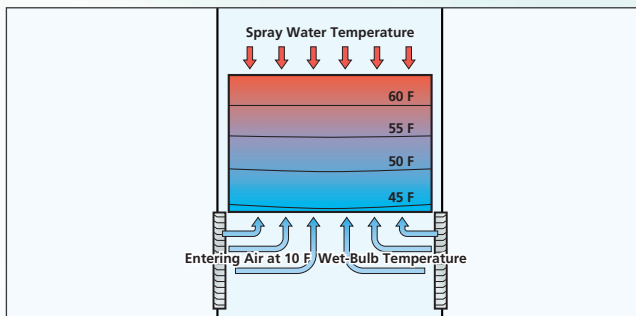
Stainless Steel Coil Option

EVAPCO offers optionally stainless steel 304L and 316L coils manufactured using EVAPCO's patented elliptical tube Sensi-Coil® design upgraded to Xtra Tough construction featuring: Xtra Durability, Xtra Corrosion Resistance and an Xtra long **5 YEAR Coil Warranty as standard.**



Sensi-Coil®

Design Benefits



Counterflow ... Optimum Design for Freezing Climates

The counterflow design of the ESW4 Closed Circuit Cooler is well suited for winter operation. The fill section is totally encased and protected from freezing temperatures, thus inhibiting ice formation on the fill section. The even temperature gradient of the counterflow design further improves winter operability by eliminating cold spots.

EVAPCO's counterflow design solves the problem of fill collapse due to ice formation.

Framed Water Sight Tight Air Inlet Louver*

EVAPCO's innovative air inlet louvers are both water and sight tight to ensure that the water stays in and the sunlight stays out of the cold water basin. Using extensive computational fluid dynamics modeling, EVAPCO engineers developed a louver to improve "splash resistance" while maximizing airflow. The resulting design maximizes thermal performance while minimizing water loss. This sight tight design also inhibits algae growth more effectively than previous designs.

EVAPCO's louver design solves the problem of the circulating water and heat transfer surfaces being directly exposed to external contaminants and the harsh surroundings.

Water Distribution System

The water distribution system is enclosed and completely protected by the casing panels and drift eliminators. The eliminators also function as effective debris screens that block sunlight and prevent debris from entering the spray system.

The water distribution system is made with non-corrosive materials including schedule 40 PVC pipe for its distribution system and EvapJet® nozzles.

EVAPCO's EvapJet® nozzles and water distribution system design eliminates the problems of biological growth and clogging that can occur with a system that is open to direct sunlight and the surroundings.

Redistribution Basin

The redistribution basin ensures even water loading of the optimized Sensi-Coil®. The redistribution basin is enclosed and completely protected by the air inlet louvers. The louvers also function as effective debris screens which block sunlight and prevent debris from entering redistribution system.

The redistribution basin is easily inspected with the removal of the framed air inlet louvers.

Efficient Drift Eliminators**

The New ESW4 is provided with an efficient drift eliminator system that effectively reduces entrained water droplets from the air discharge to less than 0.001% of the spray water flow rate.

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

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

* U.S. Patent # 7,927,196

**U.S. Patent #6,315,804

Maintenance Advantages

Easy Maintenance Design

The cold water basin is perhaps the most important area for maintenance in an evaporative cooler. Service mechanics who work on this equipment know that dirt, debris and silt all settle out in the basin. Because basin maintenance is important and should be performed regularly, EVAPCO designed the basin to make inspection, cleaning and flushing as easy as possible.

EVAPCO's basin is designed for quick and easy access with the following valuable features:



Easy Access

The cold water basin section is easily accessible from ground level. The basin is provided with solid access panels that are designed to protect the basin water and heat transfer coil from direct exposure to sunlight and debris. The access panels are light-weight and easy to remove. With the access panels removed, a service mechanic has complete access to the basin floor, heat transfer coil, float assembly and pump strainer.

Clean Pan Basin Design

The basin of the ESW4 is sloped toward a depressed area where the drain is located. With the Clean Pan design, it is easy for a service mechanic to flush the pan without getting wet feet. Other fluid cooler designs may necessitate getting inside of the unit for complete cleaning.

Stainless Steel Strainers

The EVAPCO standard for many years, the 304 stainless steel strainer, is one component that is subject to excessive wear and corrosion. With stainless steel construction, this component will last the life of the unit.

Maintenance Advantages

Easy Maintenance Drive System

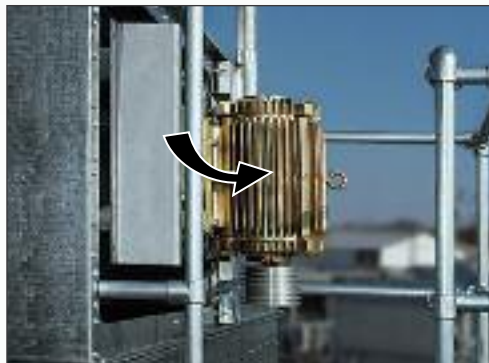
The EVAPCO POWER-BAND drive system utilized on the ESW4 Closed Circuit Cooler is the easiest belt drive system to maintain in the industry. Unlike other designs, there is no need to enter the cold water basin and climb up the plenum for access to motors, bearings or belts. All routine and periodic maintenance on the drive system can be safely performed from the exterior of the unit.

Models with Swing-Out Motors

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



Internal motor ...



... with swing-out base

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

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

Ladders, working platforms and motor davits are available as options to make maintenance a breeze. See page 16, Optional Equipment, for details.

Drive System

POWER-BAND Drive System Design

The ESW4 Closed Circuit Cooler features the highly efficient POWER-BAND Belt Drive System. The POWER-BAND Drive System consistently performs with trouble-free operation in the most severe conditions.



POWER-BAND Belt



TEAO Fan Motor

POWER-BAND Drive System Includes:

- Solid back POWER-BAND drive belt
- Totally enclosed fan motors
- Aluminum sheaves
- Fan shaft bearings with minimum 75,000 hrs. L-10 life

POWER-BAND Belt Drive

The POWER-BAND drive is a solid-backed multigroove belt designed for closed circuit cooler service. The drive belt is sized for 150 percent of the motor nameplate horsepower and constructed of neoprene with polyester chords. Band belts are field-proven with over 30 years of operation.

Drive System Sheaves

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

Fan Shaft Bearings

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

Fan Motors

All EVAPCO closed circuit coolers utilize totally enclosed fan motors (TEAO) designed specifically for evaporative cooling applications. **Premium efficient fan motors, which are compatible with variable frequency drive (VFD) systems, come standard on all ESW4 models. Alternative fan motor options are available as follows:**

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

Applications & Water Quality

Design

EVAPCO equipment is constructed of the highest quality materials and designed to provide years of reliable service when properly installed and maintained. The following sections present items that must be considered prior to the selection and installation of equipment.

Equipment Layout Planning

Proper equipment layout is essential to ensure that the fluid cooler operates at its rated capacity. Since evaporative cooling equipment requires large quantities of fresh air for cooling, it is important that the unit be located where the air supply is fresh and unobstructed.

The unit should also be located so that recirculation of the moist discharge air is minimized. Recirculation, also known as short-cycling, occurs when some of the warm, moist air discharge flows back to the unit's air inlet. The recirculation effect results in higher wet bulbs to the unit, which has a negative impact on the unit's field performance.

Engineering Bulletin No. 311 presents the Layout Guidelines for EVAPCO cooling towers, fluid coolers and evaporative condensers. Download it at evapco.com.

The closed circuit cooler should be located away from fresh air intakes, operable windows, kitchen exhaust and prevailing winds directed toward public areas.

Closed Circuit Applications

Closed Circuit Coolers are designed to be used on closed loop systems where the cooling loop is sealed and pressurized. These units are not intended for use in "Open Systems" where the cooling fluid has atmospheric contact.

If applied in open systems, the coil may corrode from the inside with rust deposition throughout the cooling loop.

The cooling fluid must be compatible with the coil material; standard coils are fabricated from black steel with the outer surface hot dip galvanized.

Piping

Supply and return piping for fluid coolers should be designed and installed in accordance with generally accepted engineering practice. The piping layout should be symmetrical for systems with multiple units, and should be sized for a low water velocity and pressure drop.

Since these units are intended for closed loop applications, the loop piping should include an expansion tank to allow for fluid expansion and to purge excess air from the system.

The piping system should include air vents and drain valves at the coil piping so that the coil can be drained if the need arises.

All piping external to the unit should be secured and anchored by properly designed hangers and supports. No external loads should be placed upon the coil connections nor should any pipe supports be anchored to the unit.

Recirculating Water Quality

Proper water treatment is an essential part of the maintenance required for evaporative cooling equipment.

A well-designed and consistently implemented water treatment program will help to ensure efficient system operation while maximizing the equipment's service life.

A qualified water treatment company should design a site specific water treatment protocol based on equipment (including all metallurgies in the cooling system), location, makeup water quality and usage.

Bleed off

Evaporative cooling equipment requires a bleed or blowdown line, located on the discharge side of the recirculating pump, to remove concentrated (cycled up) water from the system. EVAPCO recommends an automated conductivity controller to maximize the water efficiency of your system. Based on recommendations from your water treatment company, the conductivity controller should open and close a motorized ball or solenoid valve to maintain the conductivity of the recirculating water. If a manual valve is used to control the rate of bleed, it should be set to maintain the conductivity of the recirculating water during periods of peak load at the maximum level recommended by your water treatment company.

Water Treatment

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

Control of Biological Contaminants

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

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

Water Treatment Solutions

EVAPCO Water Systems



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



EVAPCO's **Pulse~Pure®** water treatment system utilizes pulsed electric field technology to provide an environmentally responsible alternative for the treatment of water in evaporative cooled equipment. The **Pulse~Pure®** system delivers short, high-frequency bursts of low energy electromagnetic fields to the recirculating water in the ESW4.

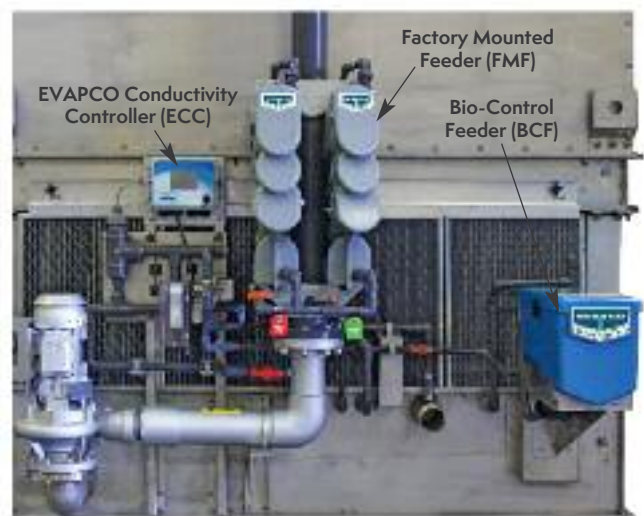
- EVAPCO guarantees that total bacterial counts will not exceed 10,000 CFU/ml in the cooling water
- Controls scale, corrosion, and microbiological growth with absolutely no chemicals required
- Compact design with no moving parts and low energy consumption

Learn More about **Pulse~Pure®**: evapco.eu

US 7,704,364
US 7,981,288



**Smart Shield® Solid Chemical
Water Treatment System**



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

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

Watch a short product video: evapco.eu

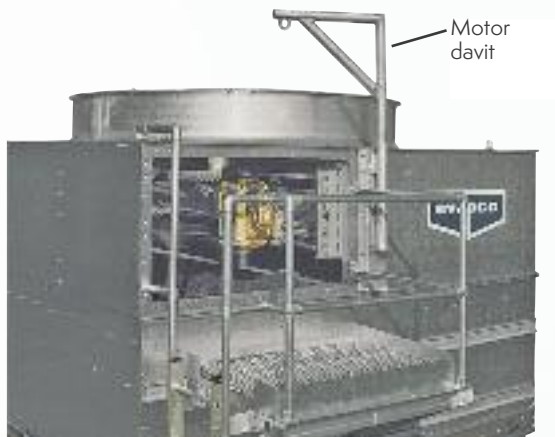
US 8,398,850
US 8,518,271
US 9,938,161

Optional Equipment

External Platforms, Ladders & Motor Davits



External platforms provide a sturdy base for access to the drive components, water distribution and drift eliminators. Constructed from heavy gauge galvanized steel, the platform mounts easily to the unit and requires no external support. The platform option includes a vertical aluminum ladder and meets all applicable OSHA requirements. A safety cage for the ladder is also available if required for the installation.



The economical motor davit option eliminates the need for a crane in the event that a fan or motor needs to be removed. The service mechanic only needs a chain-fall or come-along for easy removal of these items. The motor davit is constructed for easy mounting to the unit in the field.

Stainless Steel Basin

The modular design of EVAPCO coolers allow specific areas to be targeted for increased corrosion protection. The basin area of the cooler will experience silt build-up and turbulent mixing of air and water making it the part of the unit that is most prone to corrosion. This section also serves as the foundation of the unit providing critical support to the upper sections. EVAPCO recognizes the need for corrosion protection in this area and offers a Stainless Steel Basin as an affordable option. This option provides Type 304 or 316 stainless steel for the entire basin area including the support columns and louver frames.



Stainless Steel Water Touch Basins



EVAPCO is excited to announce the new Stainless Steel Water Touch Basins upgrade. This option provides Type 304 or Type 316 stainless steel for the water touch basins, both the intermediate redistribution basin above the coil AND the bottom cold water basin.

Optional Equipment

Super Low Sound Fan

9–15 dB(A) Reduction versus Standard Fan



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

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

Low Sound Fan

4–7 dB(A) Reduction

The Low Sound Fan offered by EVAPCO uses a wide chord blade design for sound sensitive applications where low sound levels are desired. Low Sound Fan construction uses aluminum blades and a steel fan hub. The Low Sound Fan is capable of



reducing the unit sound pressure levels by **4 dB(A) to 7 dB(A)**, depending on specific unit selection and measurement location with a minimal impact to thermal performance. The fans are high efficiency axial propeller type.

Fan Discharge Sound Attenuation

Up to 10 dB(A) Reduction

The ESW4 Fan Discharge Attenuator offered by EVAPCO allows for further sound reduction of the unit. The attenuator can be used with the standard ESW4 fan or in combination with the Low Sound or Super Low Sound Fan option.

The discharge attenuator is a factory-assembled straight-sided discharge hood designed to reduce overall discharge sound levels at full fan speed by **5 dB(A) to 10 dB(A)**, depending on specific unit selection and measurement location with a minimal impact to thermal performance. It is constructed of Z-725 galvanized steel as standard (options available for Type 304 stainless steel) and includes insulated walls and a low pressure drop baffling system that is acoustically lined with high density fiberglass. The discharge



attenuator is self-supported by the unit and is shipped loose for field mounting. A heavy-gauge, hot-dip galvanized steel fan guard covers the discharge attenuator to prevent debris from entering the attenuator.

Electric Water Level Control

An electric water level control package is available as an alternative to the standard mechanical makeup valve and float ball. This package provides accurate control for the basin water level and does not require field adjustment, even under varying operating conditions.



The control was designed by EVAPCO and is manufactured exclusively for EVAPCO. It consists of multiple heavy duty stainless steel electrodes mounted external to the unit in a vertical stand pipe. For winter operation, the stand pipe must be wrapped with electric heating cable and insulated to protect it from freezing. The weather protected slow closing solenoid valve(s) for the makeup water connection is factory supplied and is ready for piping to a water supply.

Electric Basin Heaters

Electric immersion heaters are available factory-installed in the basin of the cooler. Standard Heaters are sized to maintain a 4°C pan water temperature with the fans and pumps off and an ambient air temperature of -18°C. The heater option includes a thermostat and low-water protection device to control the heater and to prevent it from energizing unless they are completely submerged. All components are in weather proof enclosures for outdoor use. Refer to the Basin Heater Sizing table below for heater sizing at various freeze design temperatures.

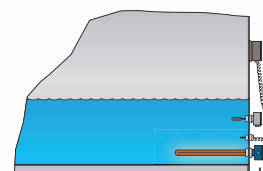


Table 1 Basin Heater Sizing

BASIN HEATER SIZING			
Box Size	-18°C kW	-28°C kW	-40°C kW
12' x 12'	(2) 6	(2) 9	(2) 12
12' x 18'	(2) 9	(2) 15	(2) 18
14' x 22'	(2) 12	(2) 18	(3) 18

Capacity Control

All ESW4 models come standard with premium efficient, inverter capable fan motors that can be used with variable frequency drive (VFD) systems for precise capacity control. VFD systems can control the speed of a fan motor by modulating the voltage and frequency of the input electrical signal. When connected to a building automation system a VFD can receive signals telling it to slow down the fan motor as the capacity of the closed circuit cooler exceeds the cooling demand and speed it back up when demand increases. This popular method of capacity control can yield significant energy savings.

EVAPCO offers two-speed fan motors as an option for alternative capacity control. In periods of lightened loads or reduced wet bulb temperatures the fans can operate at low speed providing about 60% of full speed capacity yet consuming only about 15% of full speed power. In addition to the energy savings, the sound levels of the unit can be greatly reduced by operating at low speed. These motors do not require the use of VFD systems however they can only operate at two speeds: full or low.

Steel Support/Freeze Protection

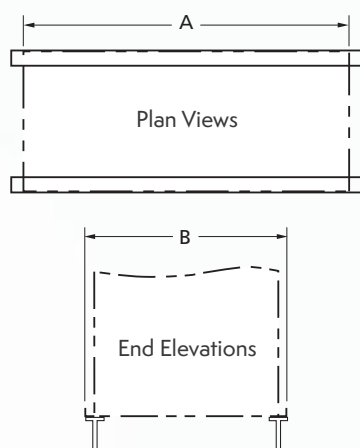
Recommended Steel Support

The recommended support for EVAPCO Closed Circuit Coolers is structural "I" beams located under the outer flanges and running the entire length of the unit. The unit should be elevated to allow access underneath the unit and to the roof below. Mounting holes 19 mm in diameter are located in the bottom flanges of the pan section to provide for bolting to the structural steel. (Refer to certified drawings from the factory for bolt hole locations).

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

Table 2 ESW4 Supporting Steel Dimensions

ESW4 SUPPORTING STEEL DIMENSIONS		
Box Size	A (m)	B (m)
12' x 12'	3.7	3.6
12' x 18'	5.5	3.6
14' x 22'	6.7	4.25



Freeze Protection for the Heat Exchanger Coil

Units installed in climates subject to freezing conditions must be adequately protected against freezing of the heat exchanger coil and pan water.

The simplest and most effective way of protecting the heat exchanger coil from freezing is to use an inhibited ethylene or propylene glycol solution.

If a glycol solution cannot be used both of the following conditions must be met:

1. Maintain sufficient process heat load through the coil such that the coil temperature is kept above 10°C. If the process load cannot support 10°C fluid, an auxiliary heat load should be applied when freezing conditions exist. Refer to Table 1 for coil heat loss data.

Table 3 Heat Loss Data

Box Size	Coil Rows	kW
12' x 12'	4	38
	6	41
	8	44
	10	47
	12	51
12' x 18'	4	51
	6	55
	8	59
	10	64
	12	68
14' x 22'	4	67
	6	72
	8	77
	10	82
	12	87

2. Design flow should be maintained through the coil whenever possible. If this is not possible, refer to Table 2 for minimum recommended flow rates.

If the coil is not protected with an antifreeze/glycol solution, automatic drain valves and air vents should be installed in the coil supply and return piping. The drain valves and piping should be heat traced and sized for quick drainage of the coil. The drain valves and air vents should be signaled to drain the coil if the fluid flow stops or drops below 4°C in freezing conditions.

Draining the coil as an emergency method of freeze protection is acceptable, however it is not recommended as standard practice. Frequent draining of the coil exposes the inner tube surface to oxygen which results in corrosion. If the coil is drained for emergency freeze protection, it should not be left empty for extended periods of time.

Table 4 Minimum Flow Chart

Box Size	Standard Unit (l/s)	Series Flow Unit (l/s)
12' x 12' Optimized Coil	11	5.6
12' x 12' Large Coil	16.4	8.2
12' x 18' Optimized Coil	22.1	11
12' x 18' Large Coil	32.8	16.4
14' x 22'	30.6	15.5

Notes

ESW4 Engineering Data & Dimensions

ESW4

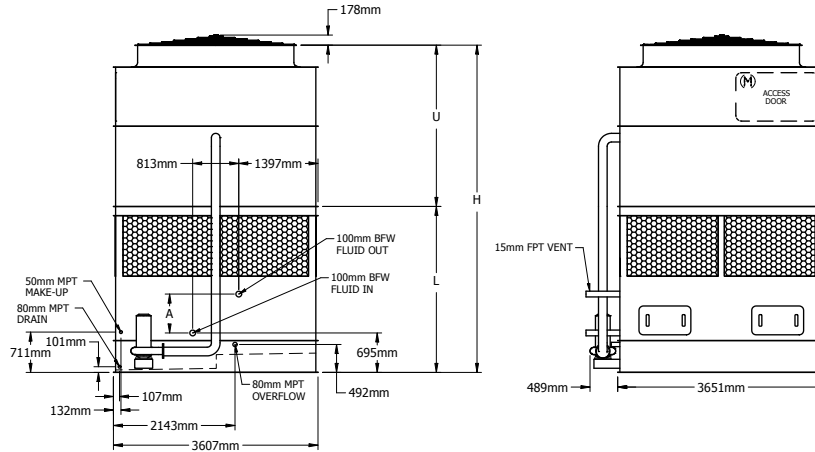
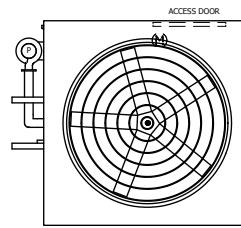


Engineering Data & Dimensions

Models: ESW4 12-22I12-LP to 12-26M12-LP

Selections for ESW4 Closed Circuit Coolers are available from EVAPCO's Spectrum Equipment Selection Program or the ESW4 Thermal Performance Charts located on evapco.com.

Note: The coil connections increase to 152 mm when the flow rate exceeds 28 l/s per coil. This required option is referred to as the High Flow coil configuration.



Model Number ¹	Weights (kg)			Fans		Spray Pump	Coil Volume (liters)	Dimensions ³			
	Shipping	Operating	Heaviest Section ²	kW	m ³ /s	kW		Height H (mm)	Lower L (mm)	Upper U (mm)	Coil A (mm)
ESW4 12-22I12-LP	6025	9300	3780	7,5	33,8	(1) 7.5	520	5083	2543	2540	305
ESW4 12-22J12-LP	6060	9335	3780	11	38,4	(1) 7.5	520	5083	2543	2540	305
ESW4 12-22K12-LP	6080	9355	3780	15	42,1	(1) 7.5	520	5083	2543	2540	305
ESW4 12-22L12-LP	6105	9380	3780	18,5	45,2	(1) 7.5	520	5083	2543	2540	305
ESW4 12-22M12-LP	6150	9425	3780	22	47,9	(1) 7.5	520	5083	2543	2540	305
ESW4 12-23I12-LP	6720	10235	4470	7,5	33,8	(1) 7.5	760	5274	2734	2540	495
ESW4 12-23J12-LP	6750	10265	4470	11	38,4	(1) 7.5	760	5274	2734	2540	495
ESW4 12-23K12-LP	6770	10285	4470	15	42,1	(1) 7.5	760	5274	2734	2540	495
ESW4 12-23L12-LP	6795	10310	4470	18,5	45,2	(1) 7.5	760	5274	2734	2540	495
ESW4 12-23M12-LP	6840	10355	4470	22	47,9	(1) 7.5	760	5274	2734	2540	495
ESW4 12-24I12-LP	7400	11150	5155	7,5	33,8	(1) 7.5	1000	5464	2924	2540	686
ESW4 12-24J12-LP	7430	11185	5155	11	38,4	(1) 7.5	1000	5464	2924	2540	686
ESW4 12-24K12-LP	7455	11205	5155	15	42,1	(1) 7.5	1000	5464	2924	2540	686
ESW4 12-24L12-LP	7475	11230	5155	18,5	45,2	(1) 7.5	1000	5464	2924	2540	686
ESW4 12-24M12-LP	7525	11275	5155	22	47,9	(1) 7.5	1000	5464	2924	2540	686
ESW4 12-25I12-LP	8130	12120	5885	7,5	33,8	(1) 7.5	1240	5655	3115	2540	876
ESW4 12-25J12-LP	8160	12150	5885	11	38,4	(1) 7.5	1240	5655	3115	2540	876
ESW4 12-25K12-LP	8185	12175	5885	15	42,1	(1) 7.5	1240	5655	3115	2540	876
ESW4 12-25L12-LP	8205	12195	5885	18,5	45,2	(1) 7.5	1240	5655	3115	2540	876
ESW4 12-25M12-LP	8250	12240	5885	22	47,9	(1) 7.5	1240	5655	3115	2540	876
ESW4 12-26I12-LP	8815	13045	6570	7,5	33,8	(1) 7.5	1480	5845	3305	2540	1067
ESW4 12-26J12-LP	8845	13075	6570	11	38,4	(1) 7.5	1480	5845	3305	2540	1067
ESW4 12-26K12-LP	8870	13100	6570	15	42,1	(1) 7.5	1480	5845	3305	2540	1067
ESW4 12-26L12-LP	8890	13120	6570	18,5	45,2	(1) 7.5	1480	5845	3305	2540	1067
ESW4 12-26M12-LP	8935	13170	6570	22	47,9	(1) 7.5	1480	5845	3305	2540	1067

1 Model numbers will end in "-Z" for units with Series Flow piping configuration. Series Flow will require crossover piping. Model numbers will include "C" for units with stainless steel coil(s), "R" for units with low sound fan(s).

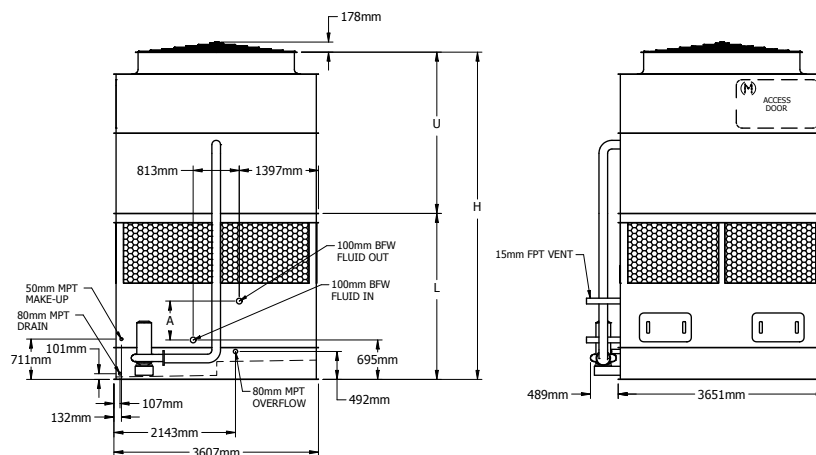
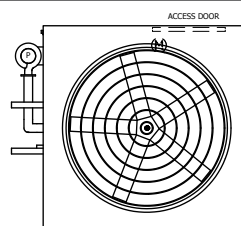
2 Heaviest section is the lower section.

3 Unit dimensions may vary slightly from catalog. See factory certified prints for exact dimensions. Coil connections are 101 mm bevel for weld (BFW). Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Engineering Data & Dimensions

Models: ESW4 12-32I12-LP to 12-36M12-LP

Note: The coil connections increase to 152 mm when the flow rate exceeds 28 l/s per coil. This required option is referred to as the High Flow coil configuration.



Model Number ¹	Weights (kg)			Fans		Spray Pump	Coil Volume (liters)	Dimensions ³			
	Shipping	Operating	Heaviest Section ²	kW	m ³ /s	kW		Height H (mm)	Lower L (mm)	Upper U (mm)	Coil A (mm)
ESW4 12-32I12-LP	6255	9530	3780	7,5	33,3	(1) 7.5	520	5388	2543	2845	305
ESW4 12-32J12-LP	6290	9565	3780	11	37,8	(1) 7.5	520	5388	2543	2845	305
ESW4 12-32K12-LP	6310	9585	3780	15	41,3	(1) 7.5	520	5388	2543	2845	305
ESW4 12-32L12-LP	6335	9610	3780	18,5	44,3	(1) 7.5	520	5388	2543	2845	305
ESW4 12-32M12-LP	6380	9655	3780	22	47,0	(1) 7.5	520	5388	2543	2845	305
ESW4 12-33I12-LP	6950	10465	4470	7,5	33,3	(1) 7.5	760	5578	2734	2845	495
ESW4 12-33J12-LP	6980	10495	4470	11	37,8	(1) 7.5	760	5578	2734	2845	495
ESW4 12-33K12-LP	7005	10520	4470	15	41,3	(1) 7.5	760	5578	2734	2845	495
ESW4 12-33L12-LP	7025	10540	4470	18,5	44,3	(1) 7.5	760	5578	2734	2845	495
ESW4 12-33M12-LP	7070	10585	4470	22	47,0	(1) 7.5	760	5578	2734	2845	495
ESW4 12-34I12-LP	7630	11385	5155	7,5	33,3	(1) 7.5	1000	5769	2924	2845	686
ESW4 12-34J12-LP	7665	11415	5155	11	37,8	(1) 7.5	1000	5769	2924	2845	686
ESW4 12-34K12-LP	7685	11435	5155	15	41,3	(1) 7.5	1000	5769	2924	2845	686
ESW4 12-34L12-LP	7710	11460	5155	18,5	44,3	(1) 7.5	1000	5769	2924	2845	686
ESW4 12-34M12-LP	7755	11505	5155	22	47,0	(1) 7.5	1000	5769	2924	2845	686
ESW4 12-35I12-LP	8360	12350	5885	7,5	33,3	(1) 7.5	1240	5959	3115	2845	876
ESW4 12-35J12-LP	8390	12385	5885	11	37,8	(1) 7.5	1240	5959	3115	2845	876
ESW4 12-35K12-LP	8415	12405	5885	15	41,3	(1) 7.5	1240	5959	3115	2845	876
ESW4 12-35L12-LP	8435	12430	5885	18,5	44,3	(1) 7.5	1240	5959	3115	2845	876
ESW4 12-35M12-LP	8480	12475	5885	22	47,0	(1) 7.5	1240	5959	3115	2845	876
ESW4 12-36I12-LP	9045	13275	6570	7,5	33,3	(1) 7.5	1480	6150	3305	2845	1067
ESW4 12-36J12-LP	9075	13310	6570	11	37,8	(1) 7.5	1480	6150	3305	2845	1067
ESW4 12-36K12-LP	9100	13330	6570	15	41,3	(1) 7.5	1480	6150	3305	2845	1067
ESW4 12-36L12-LP	9120	13355	6570	18,5	44,3	(1) 7.5	1480	6150	3305	2845	1067
ESW4 12-36M12-LP	9165	13400	6570	22	47,0	(1) 7.5	1480	6150	3305	2845	1067

¹ Model numbers will end in "Z" for units with Series Flow piping configuration. Series Flow will require crossover piping. Model numbers will include "C" for units with stainless steel coil(s), "R" for units with low sound fan(s).

² Heaviest section is the lower section.

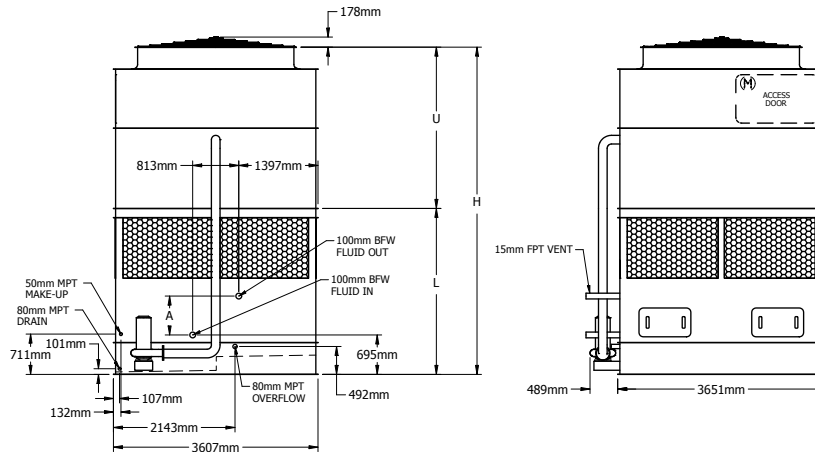
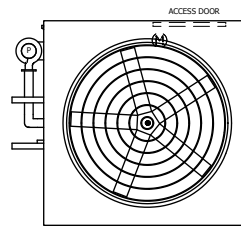
³ Unit dimensions may vary slightly from catalog. See factory certified prints for exact dimensions. Coil connections are 101 mm bevel for weld (BFW). Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Engineering Data & Dimensions

Models: ESW4 12-42I12-LP to 12-46N12-LP

Selections for ESW4 Closed Circuit Coolers are available from EVAPCO's Spectrum Equipment Selection Program or the ESW4 Thermal Performance Charts located on evapco.com.

Note: The coil connections increase to 152 mm when the flow rate exceeds 28 l/s per coil. This required option is referred to as the High Flow coil configuration.



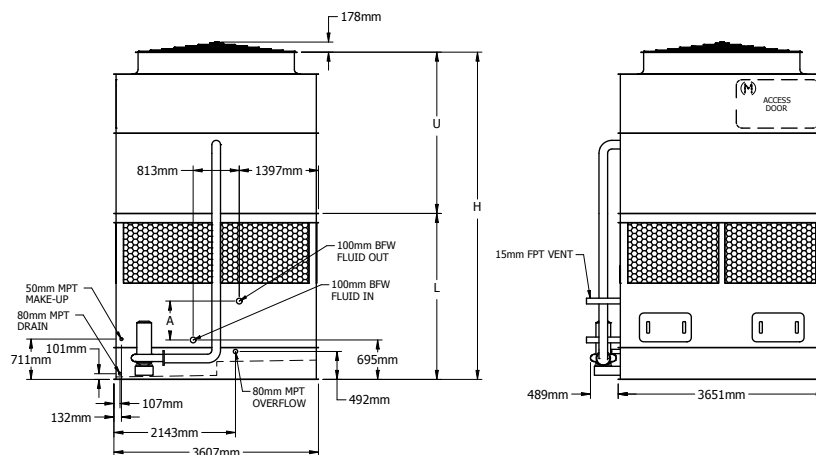
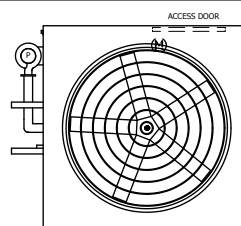
Model Number ¹	Weights (kg)			Fans		Spray Pump	Coil Volume (liters)	Dimensions ³			
	Shipping	Operating	Heaviest Section ²	kW	m ³ /s	kW		Height H (mm)	Lower L (mm)	Upper U (mm)	Coil A (mm)
ESW4 12-42I12-LP	6480	9755	3780	7,5	32,7	(1) 7,5	520	5693	2543	3150	305
ESW4 12-42J12-LP	6510	9785	3780	11	37,2	(1) 7,5	520	5693	2543	3150	305
ESW4 12-42K12-LP	6535	9810	3780	15	40,7	(1) 7,5	520	5693	2543	3150	305
ESW4 12-42L12-LP	6555	9830	3780	18,5	43,6	(1) 7,5	520	5693	2543	3150	305
ESW4 12-42M12-LP	6600	9875	3780	22	46,2	(1) 7,5	520	5693	2543	3150	305
ESW4 12-42N12-LP	6715	9990	3780	30	50,5	(1) 7,5	520	5693	2543	3150	305
ESW4 12-43I12-LP	7170	10685	4470	7,5	32,7	(1) 7,5	760	5883	2734	3150	495
ESW4 12-43J12-LP	7205	10720	4470	11	37,2	(1) 7,5	760	5883	2734	3150	495
ESW4 12-43K12-LP	7225	10740	4470	15	40,7	(1) 7,5	760	5883	2734	3150	495
ESW4 12-43L12-LP	7250	10765	4470	18,5	43,6	(1) 7,5	760	5883	2734	3150	495
ESW4 12-43M12-LP	7295	10810	4470	22	46,2	(1) 7,5	760	5883	2734	3150	495
ESW4 12-43N12-LP	7405	10925	4470	30	50,5	(1) 7,5	760	5883	2734	3150	495
ESW4 12-44I12-LP	7855	11605	5155	7,5	32,7	(1) 7,5	1000	6074	2924	3150	686
ESW4 12-44J12-LP	7885	11635	5155	11	37,2	(1) 7,5	1000	6074	2924	3150	686
ESW4 12-44K12-LP	7910	11660	5155	15	40,7	(1) 7,5	1000	6074	2924	3150	686
ESW4 12-44L12-LP	7930	11680	5155	18,5	43,6	(1) 7,5	1000	6074	2924	3150	686
ESW4 12-44M12-LP	7975	11730	5155	22	46,2	(1) 7,5	1000	6074	2924	3150	686
ESW4 12-44N12-LP	8090	11840	5155	30	50,5	(1) 7,5	1000	6074	2924	3150	686
ESW4 12-45I12-LP	8580	12575	5885	7,5	32,7	(1) 7,5	1240	6264	3115	3150	876
ESW4 12-45J12-LP	8615	12605	5885	11	37,2	(1) 7,5	1240	6264	3115	3150	876
ESW4 12-45K12-LP	8635	12630	5885	15	40,7	(1) 7,5	1240	6264	3115	3150	876
ESW4 12-45L12-LP	8660	12650	5885	18,5	43,6	(1) 7,5	1240	6264	3115	3150	876
ESW4 12-45M12-LP	8705	12695	5885	22	46,2	(1) 7,5	1240	6264	3115	3150	876
ESW4 12-45N12-LP	8820	12810	5885	30	50,5	(1) 7,5	1240	6264	3115	3150	876
ESW4 12-46I12-LP	9265	13500	6570	7,5	32,7	(1) 7,5	1480	6455	3305	3150	1067
ESW4 12-46J12-LP	9300	13530	6570	11	37,2	(1) 7,5	1480	6455	3305	3150	1067
ESW4 12-46K12-LP	9320	13555	6570	15	40,7	(1) 7,5	1480	6455	3305	3150	1067
ESW4 12-46L12-LP	9345	13575	6570	18,5	43,6	(1) 7,5	1480	6455	3305	3150	1067
ESW4 12-46M12-LP	9390	13620	6570	22	46,2	(1) 7,5	1480	6455	3305	3150	1067
ESW4 12-46N12-LP	9505	13735	6570	30	50,5	(1) 7,5	1480	6455	3305	3150	1067

- Model numbers will end in "-Z" for units with Series Flow piping configuration. Series Flow will require crossover piping. Model numbers will include "C" for units with stainless steel coil(s), "R" for units with low sound fan(s).
- Heaviest section is the lower section.
- Unit dimensions may vary slightly from catalog. See factory certified prints for exact dimensions. Coil connections are 101 mm bevel for weld (BFW). Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Engineering Data & Dimensions

Models: ESW4 12-22I12-SP to 12-26M12-SP

Note: The coil connections increase to 152 mm when the flow rate exceeds 28 l/s per coil. This required option is referred to as the High Flow coil configuration.



Model Number ¹	Weights (kg)			Fans		Spray Pump	Coil Volume (liters)	Dimensions ³			
	Shipping	Operating	Heaviest Section ²	kW	m ³ /s	kW		Height H (mm)	Lower L (mm)	Upper U (mm)	Coil A (mm)
ESW4 12-22I12-SP	5930	9205	3685	7,5	33,8	(1) 5.5	520	5083	2543	2540	305
ESW4 12-22J12-SP	5960	9235	3685	11	38,4	(1) 5.5	520	5083	2543	2540	305
ESW4 12-22K12-SP	5985	9260	3685	15	42,1	(1) 5.5	520	5083	2543	2540	305
ESW4 12-22L12-SP	6010	9285	3685	18,5	45,2	(1) 5.5	520	5083	2543	2540	305
ESW4 12-22M12-SP	6055	9330	3685	22	47,9	(1) 5.5	520	5083	2543	2540	305
ESW4 12-23I12-SP	6620	10140	4375	7,5	33,8	(1) 5.5	760	5274	2734	2540	495
ESW4 12-23J12-SP	6655	10170	4375	11	38,4	(1) 5.5	760	5274	2734	2540	495
ESW4 12-23K12-SP	6675	10190	4375	15	42,1	(1) 5.5	760	5274	2734	2540	495
ESW4 12-23L12-SP	6700	10215	4375	18,5	45,2	(1) 5.5	760	5274	2734	2540	495
ESW4 12-23M12-SP	6745	10260	4375	22	47,9	(1) 5.5	760	5274	2734	2540	495
ESW4 12-24I12-SP	7305	11055	5060	7,5	33,8	(1) 5.5	1000	5464	2924	2540	686
ESW4 12-24J12-SP	7335	11090	5060	11	38,4	(1) 5.5	1000	5464	2924	2540	686
ESW4 12-24K12-SP	7360	11110	5060	15	42,1	(1) 5.5	1000	5464	2924	2540	686
ESW4 12-24L12-SP	7380	11135	5060	18,5	45,2	(1) 5.5	1000	5464	2924	2540	686
ESW4 12-24M12-SP	7430	11180	5060	22	47,9	(1) 5.5	1000	5464	2924	2540	686
ESW4 12-25I12-SP	8035	12025	5790	7,5	33,8	(1) 5.5	1240	5655	3115	2540	876
ESW4 12-25J12-SP	8065	12055	5790	11	38,4	(1) 5.5	1240	5655	3115	2540	876
ESW4 12-25K12-SP	8090	12080	5790	15	42,1	(1) 5.5	1240	5655	3115	2540	876
ESW4 12-25L12-SP	8110	12100	5790	18,5	45,2	(1) 5.5	1240	5655	3115	2540	876
ESW4 12-25M12-SP	8155	12145	5790	22	47,9	(1) 5.5	1240	5655	3115	2540	876
ESW4 12-26I12-SP	8720	12950	6475	7,5	33,8	(1) 5.5	1480	5845	3305	2540	1067
ESW4 12-26J12-SP	8750	12980	6475	11	38,4	(1) 5.5	1480	5845	3305	2540	1067
ESW4 12-26K12-SP	8770	13005	6475	15	42,1	(1) 5.5	1480	5845	3305	2540	1067
ESW4 12-26L12-SP	8795	13025	6475	18,5	45,2	(1) 5.5	1480	5845	3305	2540	1067
ESW4 12-26M12-SP	8840	13075	6475	22	47,9	(1) 5.5	1480	5845	3305	2540	1067

¹ Model numbers will end in "Z" for units with Series Flow piping configuration. Series Flow will require crossover piping. Model numbers will include "C" for units with stainless steel coil(s), "R" for units with low sound fan(s).

² Heaviest section is the lower section.

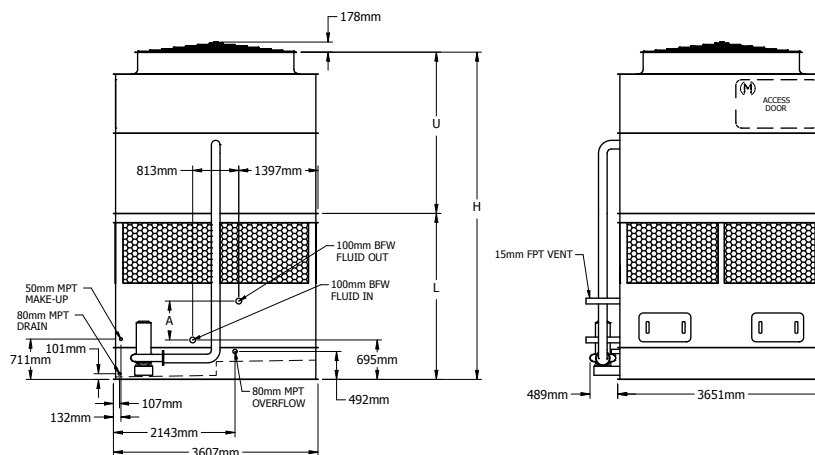
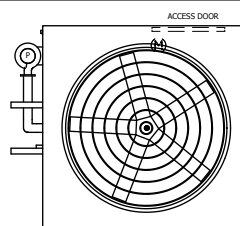
³ Unit dimensions may vary slightly from catalog. See factory certified prints for exact dimensions. Coil connections are 101 mm bevel for weld (BFW). Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Engineering Data & Dimensions

Models: ESW4 12-32I12-SP to 12-36M12-SP

Selections for ESW4 Closed Circuit Coolers are available from EVAPCO's Spectrum Equipment Selection Program or the ESW4 Thermal Performance Charts located on evapco.com.

Note: The coil connections increase to 152 mm when the flow rate exceeds 28 l/s per coil. This required option is referred to as the High Flow coil configuration.



Model Number ¹	Weights (kg)			Fans		Spray Pump	Coil Volume (liters)	Dimensions ³			
	Shipping	Operating	Heaviest Section ²	kW	m ³ /s	kW		Height H (mm)	Lower L (mm)	Upper U (mm)	Coil A (mm)
ESW4 12-32I12-SP	6160	9435	3685	7,5	33,3	(1) 5.5	520	5388	2543	2845	305
ESW4 12-32J12-SP	6195	9470	3685	11	37,8	(1) 5.5	520	5388	2543	2845	305
ESW4 12-32K12-SP	6215	9490	3685	15	41,3	(1) 5.5	520	5388	2543	2845	305
ESW4 12-32L12-SP	6240	9515	3685	18,5	44,3	(1) 5.5	520	5388	2543	2845	305
ESW4 12-32M12-SP	6285	9560	3685	22	47,0	(1) 5.5	520	5388	2543	2845	305
ESW4 12-33I12-SP	6855	10370	4375	7,5	33,3	(1) 5.5	760	5578	2734	2845	495
ESW4 12-33J12-SP	6885	10400	4375	11	37,8	(1) 5.5	760	5578	2734	2845	495
ESW4 12-33K12-SP	6910	10425	4375	15	41,3	(1) 5.5	760	5578	2734	2845	495
ESW4 12-33L12-SP	6930	10445	4375	18,5	44,3	(1) 5.5	760	5578	2734	2845	495
ESW4 12-33M12-SP	6975	10490	4375	22	47,0	(1) 5.5	760	5578	2734	2845	495
ESW4 12-34I12-SP	7535	11290	5060	7,5	33,3	(1) 5.5	1000	5769	2924	2845	686
ESW4 12-34J12-SP	7570	11320	5060	11	37,8	(1) 5.5	1000	5769	2924	2845	686
ESW4 12-34K12-SP	7590	11340	5060	15	41,3	(1) 5.5	1000	5769	2924	2845	686
ESW4 12-34L12-SP	7615	11365	5060	18,5	44,3	(1) 5.5	1000	5769	2924	2845	686
ESW4 12-34M12-SP	7660	11410	5060	22	47,0	(1) 5.5	1000	5769	2924	2845	686
ESW4 12-35I12-SP	8265	12255	5790	7,5	33,3	(1) 5.5	1240	5959	3115	2845	876
ESW4 12-35J12-SP	8295	12290	5790	11	37,8	(1) 5.5	1240	5959	3115	2845	876
ESW4 12-35K12-SP	8320	12310	5790	15	41,3	(1) 5.5	1240	5959	3115	2845	876
ESW4 12-35L12-SP	8340	12335	5790	18,5	44,3	(1) 5.5	1240	5959	3115	2845	876
ESW4 12-35M12-SP	8385	12380	5790	22	47,0	(1) 5.5	1240	5959	3115	2845	876
ESW4 12-36I12-SP	8950	13180	6475	7,5	33,3	(1) 5.5	1480	6150	3305	2845	1067
ESW4 12-36J12-SP	8980	13215	6475	11	37,8	(1) 5.5	1480	6150	3305	2845	1067
ESW4 12-36K12-SP	9005	13235	6475	15	41,3	(1) 5.5	1480	6150	3305	2845	1067
ESW4 12-36L12-SP	9025	13260	6475	18,5	44,3	(1) 5.5	1480	6150	3305	2845	1067
ESW4 12-36M12-SP	9070	13305	6475	22	47,0	(1) 5.5	1480	6150	3305	2845	1067

1 Model numbers will end in "-Z" for units with Series Flow piping configuration. Series Flow will require crossover piping. Model numbers will include "C" for units with stainless steel coil(s), "R" for units with low sound fan(s).

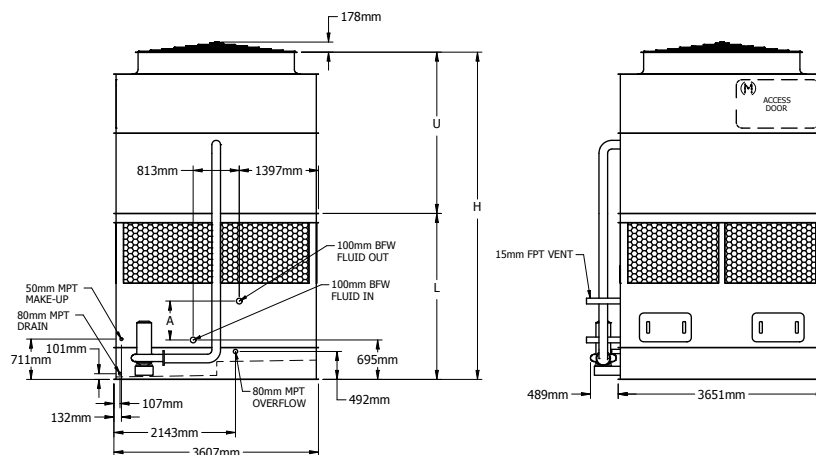
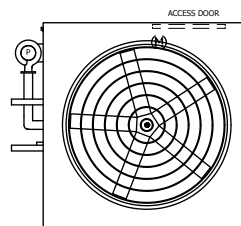
2 Heaviest section is the lower section.

3 Unit dimensions may vary slightly from catalog. See factory certified prints for exact dimensions. Coil connections are 101 mm bevel for weld (BFW). Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Engineering Data & Dimensions

Models: ESW4 12-42I12-SP to 12-46N12-SP

Note: The coil connections increase to 152 mm when the flow rate exceeds 28 l/s per coil. This required option is referred to as the High Flow coil configuration.



Model Number ¹	Weights (kg)			Fans		Spray Pump	Coil Volume (liters)	Dimensions ³			
	Shipping	Operating	Heaviest Section ²	kW	m ³ /s	kW		Height H (mm)	Lower L (mm)	Upper U (mm)	Coil A (mm)
ESW4 12-42I12-SP	6385	9660	3685	7,5	32,7	(1) 5.5	520	5693	2543	3150	305
ESW4 12-42J12-SP	6415	9690	3685	11	37,2	(1) 5.5	520	5693	2543	3150	305
ESW4 12-42K12-SP	6440	9715	3685	15	40,7	(1) 5.5	520	5693	2543	3150	305
ESW4 12-42L12-SP	6460	9735	3685	18,5	43,6	(1) 5.5	520	5693	2543	3150	305
ESW4 12-42M12-SP	6505	9780	3685	22	46,2	(1) 5.5	520	5693	2543	3150	305
ESW4 12-42N12-SP	6620	9895	3685	30	50,5	(1) 5.5	520	5693	2543	3150	305
ESW4 12-43I12-SP	7075	10590	4375	7,5	32,7	(1) 5.5	760	5883	2734	3150	495
ESW4 12-43J12-SP	7110	10625	4375	11	37,2	(1) 5.5	760	5883	2734	3150	495
ESW4 12-43K12-SP	7130	10645	4375	15	40,7	(1) 5.5	760	5883	2734	3150	495
ESW4 12-43L12-SP	7155	10670	4375	18,5	43,6	(1) 5.5	760	5883	2734	3150	495
ESW4 12-43M12-SP	7200	10715	4375	22	46,2	(1) 5.5	760	5883	2734	3150	495
ESW4 12-43N12-SP	7310	10825	4375	30	50,5	(1) 5.5	760	5883	2734	3150	495
ESW4 12-44I12-SP	7760	11510	5060	7,5	32,7	(1) 5.5	1000	6074	2924	3150	686
ESW4 12-44J12-SP	7790	11540	5060	11	37,2	(1) 5.5	1000	6074	2924	3150	686
ESW4 12-44K12-SP	7815	11565	5060	15	40,7	(1) 5.5	1000	6074	2924	3150	686
ESW4 12-44L12-SP	7835	11585	5060	18,5	43,6	(1) 5.5	1000	6074	2924	3150	686
ESW4 12-44M12-SP	7880	11630	5060	22	46,2	(1) 5.5	1000	6074	2924	3150	686
ESW4 12-44N12-SP	7995	11745	5060	30	50,5	(1) 5.5	1000	6074	2924	3150	686
ESW4 12-45I12-SP	8485	12480	5790	7,5	32,7	(1) 5.5	1240	6264	3115	3150	876
ESW4 12-45J12-SP	8520	12510	5790	11	37,2	(1) 5.5	1240	6264	3115	3150	876
ESW4 12-45K12-SP	8540	12535	5790	15	40,7	(1) 5.5	1240	6264	3115	3150	876
ESW4 12-45L12-SP	8565	12555	5790	18,5	43,6	(1) 5.5	1240	6264	3115	3150	876
ESW4 12-45M12-SP	8610	12600	5790	22	46,2	(1) 5.5	1240	6264	3115	3150	876
ESW4 12-45N12-SP	8725	12715	5790	30	50,5	(1) 5.5	1240	6264	3115	3150	876
ESW4 12-46I12-SP	9170	13405	6475	7,5	32,7	(1) 5.5	1480	6455	3305	3150	1067
ESW4 12-46J12-SP	9205	13435	6475	11	37,2	(1) 5.5	1480	6455	3305	3150	1067
ESW4 12-46K12-SP	9225	13460	6475	15	40,7	(1) 5.5	1480	6455	3305	3150	1067
ESW4 12-46L12-SP	9250	13480	6475	18,5	43,6	(1) 5.5	1480	6455	3305	3150	1067
ESW4 12-46M12-SP	9295	13525	6475	22	46,2	(1) 5.5	1480	6455	3305	3150	1067
ESW4 12-46N12-SP	9410	13640	6475	30	50,5	(1) 5.5	1480	6455	3305	3150	1067

¹ Model numbers will end in "Z" for units with Series Flow piping configuration. Series Flow will require crossover piping. Model numbers will include "C" for units with stainless steel coil(s), "R" for units with low sound fan(s).

² Heaviest section is the lower section.

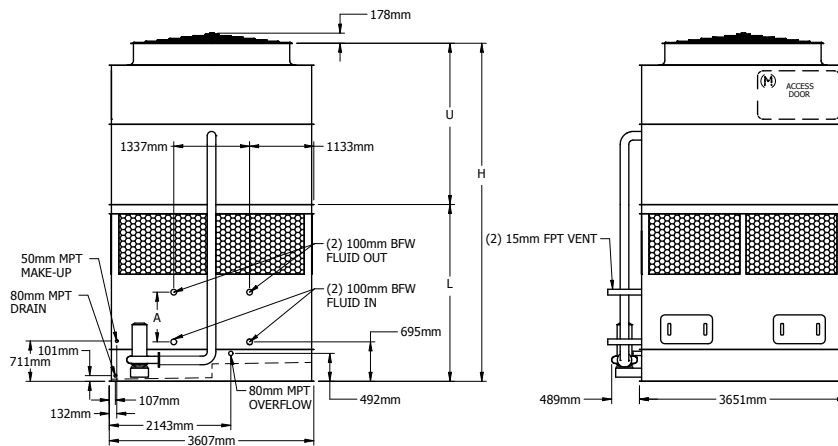
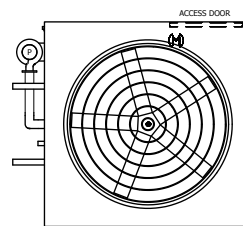
³ Unit dimensions may vary slightly from catalog. See factory certified prints for exact dimensions. Coil connections are 101 mm bevel for weld (BFW). Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Engineering Data & Dimensions

Models: ESW4 12-25I12-LF to 12-46N12-LF

Selections for ESW4 Closed Circuit Coolers are available from EVAPCO's Spectrum Equipment Selection Program or the ESW4 Thermal Performance Charts located on evapco.com.

Note: The coil connections increase to 152 mm when the flow rate exceeds 28 l/s per coil. This required option is referred to as the High Flow coil configuration.



Model Number ¹	Weights (kg)			Fans		Spray Pump	Coil Volume (liters)	Dimensions ³			
	Shipping	Operating	Heaviest Section ²	kW	m ³ /s	kW		Height H (mm)	Lower L (mm)	Upper U (mm)	Coil A (mm)
ESW4 12-25I12-LF	9690	14295	7445	7,5	33,8	(1) 7,5	1860	5655	3115	2540	876
ESW4 12-25J12-LF	9720	14330	7445	11	38,4	(1) 7,5	1860	5655	3115	2540	876
ESW4 12-25K12-LF	9745	14350	7445	15	42,1	(1) 7,5	1860	5655	3115	2540	876
ESW4 12-25L12-LF	9765	14375	7445	18,5	45,2	(1) 7,5	1860	5655	3115	2540	876
ESW4 12-25M12-LF	9810	14420	7445	22	47,9	(1) 7,5	1860	5655	3115	2540	876
ESW4 12-26I12-LF	10685	15655	8440	7,5	33,8	(1) 7,5	2220	5845	3305	2540	1067
ESW4 12-26J12-LF	10720	15685	8440	11	38,4	(1) 7,5	2220	5845	3305	2540	1067
ESW4 12-26K12-LF	10740	15710	8440	15	42,1	(1) 7,5	2220	5845	3305	2540	1067
ESW4 12-26L12-LF	10765	15730	8440	18,5	45,2	(1) 7,5	2220	5845	3305	2540	1067
ESW4 12-26M12-LF	10810	15775	8440	22	47,9	(1) 7,5	2220	5845	3305	2540	1067
ESW4 12-35I12-LF	9920	14530	7445	7,5	33,3	(1) 7,5	1860	5959	3115	2845	876
ESW4 12-35J12-LF	9950	14560	7445	11	37,8	(1) 7,5	1860	5959	3115	2845	876
ESW4 12-35K12-LF	9975	14585	7445	15	41,3	(1) 7,5	1860	5959	3115	2845	876
ESW4 12-35L12-LF	9995	14605	7445	18,5	44,3	(1) 7,5	1860	5959	3115	2845	876
ESW4 12-35M12-LF	10045	14650	7445	22	47,0	(1) 7,5	1860	5959	3115	2845	876
ESW4 12-36I12-LF	10920	15885	8440	7,5	33,3	(1) 7,5	2220	6150	3305	2845	1067
ESW4 12-36J12-LF	10950	15915	8440	11	37,8	(1) 7,5	2220	6150	3305	2845	1067
ESW4 12-36K12-LF	10970	15940	8440	15	41,3	(1) 7,5	2220	6150	3305	2845	1067
ESW4 12-36L12-LF	10995	15960	8440	18,5	44,3	(1) 7,5	2220	6150	3305	2845	1067
ESW4 12-36M12-LF	11040	16005	8440	22	47,0	(1) 7,5	2220	6150	3305	2845	1067
ESW4 12-45I12-LF	10140	14750	7445	7,5	32,7	(1) 7,5	1860	6264	3115	3150	876
ESW4 12-45J12-LF	10175	14785	7445	11	37,2	(1) 7,5	1860	6264	3115	3150	876
ESW4 12-45K12-LF	10195	14805	7445	15	40,7	(1) 7,5	1860	6264	3115	3150	876
ESW4 12-45L12-LF	10220	14830	7445	18,5	43,6	(1) 7,5	1860	6264	3115	3150	876
ESW4 12-45M12-LF	10265	14875	7445	22	46,2	(1) 7,5	1860	6264	3115	3150	876
ESW4 12-45N12-LF	10380	14985	7445	30	50,5	(1) 7,5	1860	6264	3115	3150	876
ESW4 12-46I12-LF	11140	16105	8440	7,5	32,7	(1) 7,5	2220	6455	3305	3150	1067
ESW4 12-46J12-LF	11170	16140	8440	11	37,2	(1) 7,5	2220	6455	3305	3150	1067
ESW4 12-46K12-LF	11195	16160	8440	15	40,7	(1) 7,5	2220	6455	3305	3150	1067
ESW4 12-46L12-LF	11215	16185	8440	18,5	43,6	(1) 7,5	2220	6455	3305	3150	1067
ESW4 12-46M12-LF	11265	16230	8440	22	46,2	(1) 7,5	2220	6455	3305	3150	1067
ESW4 12-46N12-LF	11375	16345	8440	30	50,5	(1) 7,5	2220	6455	3305	3150	1067

1 Model numbers will end in "-Z" for units with Series Flow piping configuration. Series Flow will require crossover piping. Model numbers will include "C" for units with stainless steel coil(s), "R" for units with low sound fan(s).

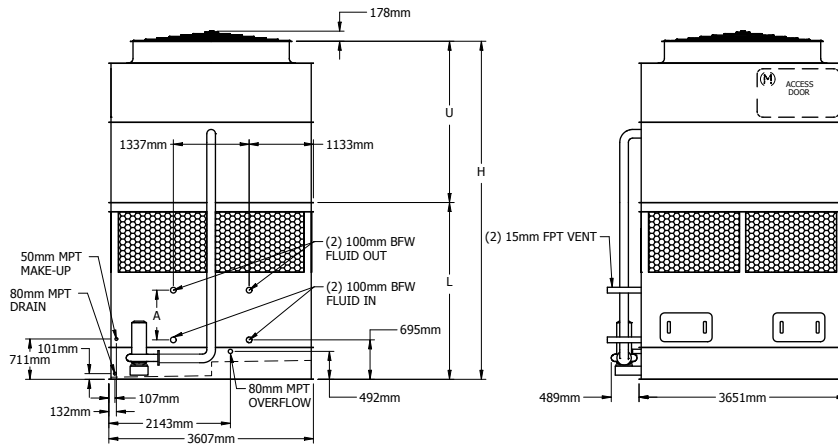
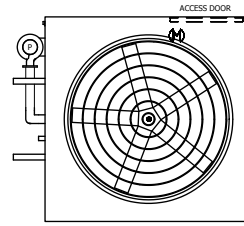
2 Heaviest section is the lower section.

3 Unit dimensions may vary slightly from catalog. See factory certified prints for exact dimensions. Coil connections are 101 mm bevel for weld (BFW). Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Engineering Data & Dimensions

Models: ESW4 12-25I12-SF to 12-46N12-SF

Note: The coil connections increase to 152 mm when the flow rate exceeds 28 l/s per coil. This required option is referred to as the High Flow coil configuration.



Model Number ¹	Weights (kg)			Fans		Spray Pump	Coil Volume (liters)	Dimensions ³			
	Shipping	Operating	Heaviest Section ²	kW	m ³ /s	kW		Height H (mm)	Lower L (mm)	Upper U (mm)	Coil A (mm)
ESW4 12-25I12-SF	9595	14200	7350	7,5	33,8	(1) 5,5	1860	5655	3115	2540	876
ESW4 12-25J12-SF	9625	14235	7350	11	38,4	(1) 5,5	1860	5655	3115	2540	876
ESW4 12-25K12-SF	9650	14255	7350	15	42,1	(1) 5,5	1860	5655	3115	2540	876
ESW4 12-25L12-SF	9670	14280	7350	18,5	45,2	(1) 5,5	1860	5655	3115	2540	876
ESW4 12-25M12-SF	9715	14325	7350	22	47,9	(1) 5,5	1860	5655	3115	2540	876
ESW4 12-26I12-SF	10590	15560	8345	7,5	33,8	(1) 5,5	2220	5845	3305	2540	1067
ESW4 12-26J12-SF	10625	15590	8345	11	38,4	(1) 5,5	2220	5845	3305	2540	1067
ESW4 12-26K12-SF	10645	15615	8345	15	42,1	(1) 5,5	2220	5845	3305	2540	1067
ESW4 12-26L12-SF	10670	15635	8345	18,5	45,2	(1) 5,5	2220	5845	3305	2540	1067
ESW4 12-26M12-SF	10715	15680	8345	22	47,9	(1) 5,5	2220	5845	3305	2540	1067
ESW4 12-35I12-SF	9825	14435	7350	7,5	33,3	(1) 5,5	1860	5959	3115	2845	876
ESW4 12-35J12-SF	9855	14465	7350	11	37,8	(1) 5,5	1860	5959	3115	2845	876
ESW4 12-35K12-SF	9880	14490	7350	15	41,3	(1) 5,5	1860	5959	3115	2845	876
ESW4 12-35L12-SF	9900	14510	7350	18,5	44,3	(1) 5,5	1860	5959	3115	2845	876
ESW4 12-35M12-SF	9945	14555	7350	22	47,0	(1) 5,5	1860	5959	3115	2845	876
ESW4 12-36I12-SF	10825	15790	8345	7,5	33,3	(1) 5,5	2220	6150	3305	2845	1067
ESW4 12-36J12-SF	10855	15820	8345	11	37,8	(1) 5,5	2220	6150	3305	2845	1067
ESW4 12-36K12-SF	10875	15845	8345	15	41,3	(1) 5,5	2220	6150	3305	2845	1067
ESW4 12-36L12-SF	10900	15865	8345	18,5	44,3	(1) 5,5	2220	6150	3305	2845	1067
ESW4 12-36M12-SF	10945	15910	8345	22	47,0	(1) 5,5	2220	6150	3305	2845	1067
ESW4 12-45I12-SF	10045	14655	7350	7,5	32,7	(1) 5,5	1860	6264	3115	3150	876
ESW4 12-45J12-SF	10080	14685	7350	11	37,2	(1) 5,5	1860	6264	3115	3150	876
ESW4 12-45K12-SF	10100	14710	7350	15	40,7	(1) 5,5	1860	6264	3115	3150	876
ESW4 12-45L12-SF	10125	14735	7350	18,5	43,6	(1) 5,5	1860	6264	3115	3150	876
ESW4 12-45M12-SF	10170	14780	7350	22	46,2	(1) 5,5	1860	6264	3115	3150	876
ESW4 12-45N12-SF	10285	14890	7350	30	50,5	(1) 5,5	1860	6264	3115	3150	876
ESW4 12-46I12-SF	11045	16010	8345	7,5	32,7	(1) 5,5	2220	6455	3305	3150	1067
ESW4 12-46J12-SF	11075	16045	8345	11	37,2	(1) 5,5	2220	6455	3305	3150	1067
ESW4 12-46K12-SF	11100	16065	8345	15	40,7	(1) 5,5	2220	6455	3305	3150	1067
ESW4 12-46L12-SF	11120	16090	8345	18,5	43,6	(1) 5,5	2220	6455	3305	3150	1067
ESW4 12-46M12-SF	11165	16135	8345	22	46,2	(1) 5,5	2220	6455	3305	3150	1067
ESW4 12-46N12-SF	11280	16250	8345	30	50,5	(1) 5,5	2220	6455	3305	3150	1067

¹ Model numbers will end in "Z" for units with Series Flow piping configuration. Series Flow will require crossover piping. Model numbers will include "C" for units with stainless steel coil(s), "R" for units with low sound fan(s).

² Heaviest section is the lower section.

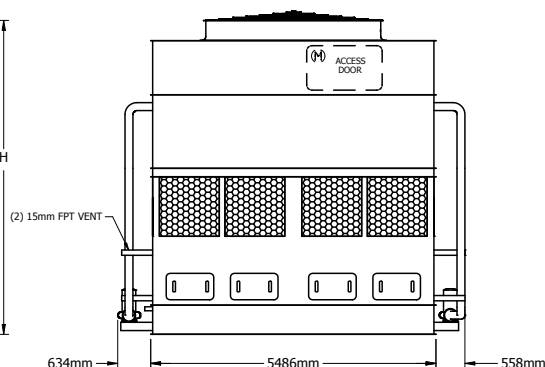
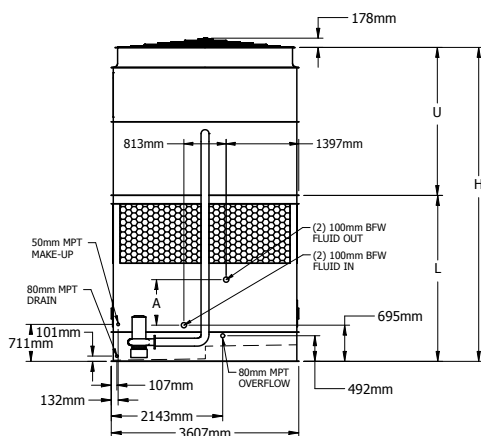
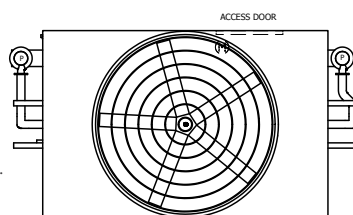
³ Unit dimensions may vary slightly from catalog. See factory certified prints for exact dimensions. Coil connections are 101 mm bevel for weld (BFW). Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Engineering Data & Dimensions

Models: ESW4 12-22J18-LP to 12-26N18-LP

Selections for ESW4 Closed Circuit Coolers are available from EVAPCO's Spectrum Equipment Selection Program or the ESW4 Thermal Performance Charts located on evapco.com.

Note: The coil connections increase to 152 mm when the flow rate exceeds 28 l/s per coil. This required option is referred to as the High Flow coil configuration.



Model Number ¹	Weights (kg)			Fans		Spray Pump	Coil Volume (liters)	Dimensions ³			
	Shipping	Operating	Heaviest Section ²	kW	m ³ /s	kW		Height H (mm)	Lower L (mm)	Upper U (mm)	Coil A (mm)
ESW4 12-22J18-LP	8920	13880	5930	11	52,0	(2) 5.5	800	5159	2619	2540	305
ESW4 12-22K18-LP	8950	13905	5930	15	56,9	(2) 5.5	800	5159	2619	2540	305
ESW4 12-22L18-LP	8970	13930	5930	18,5	61,2	(2) 5.5	800	5159	2619	2540	305
ESW4 12-22M18-LP	9020	13980	5930	22	64,8	(2) 5.5	800	5159	2619	2540	305
ESW4 12-22N18-LP	9140	14100	5930	30	71,0	(2) 5.5	800	5159	2619	2540	305
ESW4 12-23J18-LP	9965	15285	6970	11	52,0	(2) 5.5	1170	5350	2810	2540	495
ESW4 12-23K18-LP	9995	15315	6970	15	56,9	(2) 5.5	1170	5350	2810	2540	495
ESW4 12-23L18-LP	10015	15335	6970	18,5	61,2	(2) 5.5	1170	5350	2810	2540	495
ESW4 12-23M18-LP	10065	15385	6970	22	64,8	(2) 5.5	1170	5350	2810	2540	495
ESW4 12-23N18-LP	10185	15505	6970	30	71,0	(2) 5.5	1170	5350	2810	2540	495
ESW4 12-24J18-LP	11015	16695	8020	11	52,0	(2) 5.5	1530	5540	3000	2540	686
ESW4 12-24K18-LP	11040	16725	8020	15	56,9	(2) 5.5	1530	5540	3000	2540	686
ESW4 12-24L18-LP	11065	16745	8020	18,5	61,2	(2) 5.5	1530	5540	3000	2540	686
ESW4 12-24M18-LP	11115	16795	8020	22	64,8	(2) 5.5	1530	5540	3000	2540	686
ESW4 12-24N18-LP	11230	16915	8020	30	71,0	(2) 5.5	1530	5540	3000	2540	686
ESW4 12-25J18-LP	12105	18155	9115	11	52,0	(2) 5.5	1890	5731	3191	2540	876
ESW4 12-25K18-LP	12135	18180	9115	15	56,9	(2) 5.5	1890	5731	3191	2540	876
ESW4 12-25L18-LP	12155	18205	9115	18,5	61,2	(2) 5.5	1890	5731	3191	2540	876
ESW4 12-25M18-LP	12205	18255	9115	22	64,8	(2) 5.5	1890	5731	3191	2540	876
ESW4 12-25N18-LP	12325	18370	9115	30	71,0	(2) 5.5	1890	5731	3191	2540	876
ESW4 12-26J18-LP	13110	19520	10115	11	52,0	(2) 5.5	2260	5921	3381	2540	1067
ESW4 12-26K18-LP	13135	19545	10115	15	56,9	(2) 5.5	2260	5921	3381	2540	1067
ESW4 12-26L18-LP	13160	19570	10115	18,5	61,2	(2) 5.5	2260	5921	3381	2540	1067
ESW4 12-26M18-LP	13210	19620	10115	22	64,8	(2) 5.5	2260	5921	3381	2540	1067
ESW4 12-26N18-LP	13325	19735	10115	30	71,0	(2) 5.5	2260	5921	3381	2540	1067

1 Model numbers will end in "-Z" for units with Series Flow piping configuration. Series Flow will require crossover piping. Model numbers will include "C" for units with stainless steel coil(s), "R" for units with low sound fan(s).

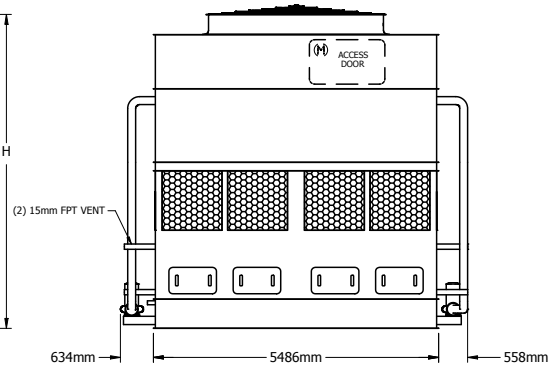
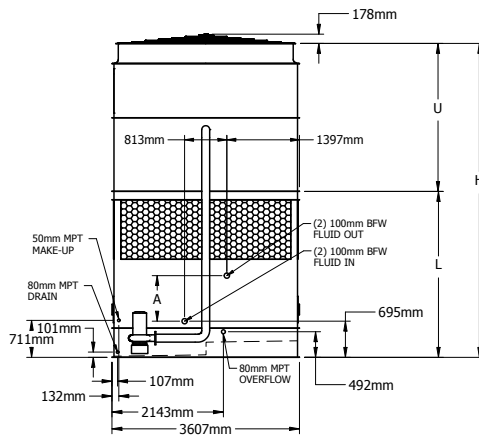
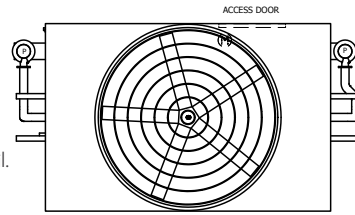
2 Heaviest section is the lower section.

3 Unit dimensions may vary slightly from catalog. See factory certified prints for exact dimensions. Coil connections are 101 mm bevel for weld (BFW). Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Engineering Data & Dimensions

Models: ESW4 12-32J18-LP to 12-36O18-LP

Note: The coil connections increase to 152 mm when the flow rate exceeds 28 l/s per coil. This required option is referred to as the High Flow coil configuration.



Model Number ¹	Weights (kg)			Fans		Spray Pump	Coil Volume (liters)	Dimensions ³			
	Shipping	Operating	Heaviest Section ²	kW	m ³ /s	kW		Height H (mm)	Lower L (mm)	Upper U (mm)	Coil A (mm)
ESW4 12-32J18-LP	9280	14240	5930	11	51,2	(2) 5.5	800	5464	2619	2845	305
ESW4 12-32K18-LP	9310	14265	5930	15	56,0	(2) 5.5	800	5464	2619	2845	305
ESW4 12-32L18-LP	9330	14290	5930	18,5	60,1	(2) 5.5	800	5464	2619	2845	305
ESW4 12-32M18-LP	9380	14340	5930	22	63,7	(2) 5.5	800	5464	2619	2845	305
ESW4 12-32N18-LP	9500	14455	5930	30	69,7	(2) 5.5	800	5464	2619	2845	305
ESW4 12-32O18-LP	9525	14485	5930	37	74,8	(2) 5.5	800	5464	2619	2845	305
ESW4 12-33J18-LP	10325	15645	6970	11	51,2	(2) 5.5	1170	5655	2810	2845	495
ESW4 12-33K18-LP	10350	15670	6970	15	56,0	(2) 5.5	1170	5655	2810	2845	495
ESW4 12-33L18-LP	10375	15695	6970	18,5	60,1	(2) 5.5	1170	5655	2810	2845	495
ESW4 12-33M18-LP	10425	15745	6970	22	63,7	(2) 5.5	1170	5655	2810	2845	495
ESW4 12-33N18-LP	10540	15860	6970	30	69,7	(2) 5.5	1170	5655	2810	2845	495
ESW4 12-33O18-LP	10570	15890	6970	37	74,8	(2) 5.5	1170	5655	2810	2845	495
ESW4 12-34J18-LP	11370	17055	8020	11	51,2	(2) 5.5	1530	5845	3000	2845	686
ESW4 12-34K18-LP	11400	17080	8020	15	56,0	(2) 5.5	1530	5845	3000	2845	686
ESW4 12-34L18-LP	11420	17105	8020	18,5	60,1	(2) 5.5	1530	5845	3000	2845	686
ESW4 12-34M18-LP	11470	17155	8020	22	63,7	(2) 5.5	1530	5845	3000	2845	686
ESW4 12-34N18-LP	11590	17275	8020	30	69,7	(2) 5.5	1530	5845	3000	2845	686
ESW4 12-34O18-LP	11615	17300	8020	37	74,8	(2) 5.5	1530	5845	3000	2845	686
ESW4 12-35J18-LP	12465	18510	9115	11	51,2	(2) 5.5	1890	6036	3191	2845	876
ESW4 12-35K18-LP	12490	18540	9115	15	56,0	(2) 5.5	1890	6036	3191	2845	876
ESW4 12-35L18-LP	12515	18560	9115	18,5	60,1	(2) 5.5	1890	6036	3191	2845	876
ESW4 12-35M18-LP	12565	18610	9115	22	63,7	(2) 5.5	1890	6036	3191	2845	876
ESW4 12-35N18-LP	12680	18730	9115	30	69,7	(2) 5.5	1890	6036	3191	2845	876
ESW4 12-35O18-LP	12710	18755	9115	37	74,8	(2) 5.5	1890	6036	3191	2845	876
ESW4 12-36J18-LP	13465	19875	10115	11	51,2	(2) 5.5	2260	6226	3381	2845	1067
ESW4 12-36K18-LP	13495	19905	10115	15	56,0	(2) 5.5	2260	6226	3381	2845	1067
ESW4 12-36L18-LP	13515	19925	10115	18,5	60,1	(2) 5.5	2260	6226	3381	2845	1067
ESW4 12-36M18-LP	13565	19975	10115	22	63,7	(2) 5.5	2260	6226	3381	2845	1067
ESW4 12-36N18-LP	13685	20095	10115	30	69,7	(2) 5.5	2260	6226	3381	2845	1067
ESW4 12-36O18-LP	13710	20120	10115	37	74,8	(2) 5.5	2260	6226	3381	2845	1067

¹ Model numbers will end in "Z" for units with Series Flow piping configuration. Series Flow will require crossover piping. Model numbers will include "C" for units with stainless steel coil(s), "R" for units with low sound fan(s).

² Heaviest section is the lower section.

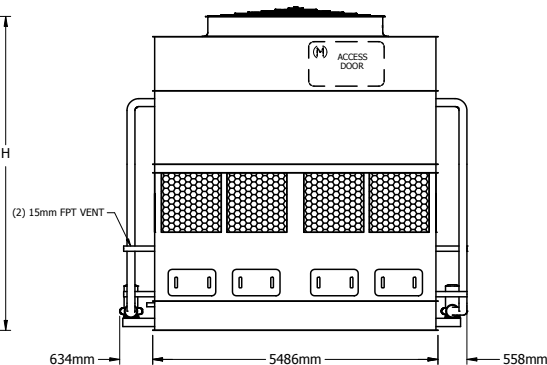
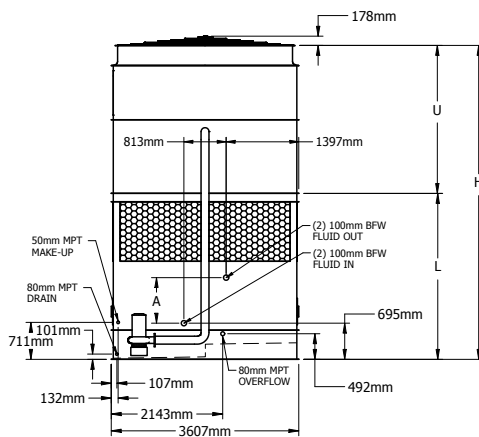
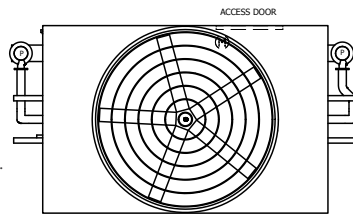
³ Unit dimensions may vary slightly from catalog. See factory certified prints for exact dimensions. Coil connections are 101 mm bevel for weld (BFW). Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Engineering Data & Dimensions

Models: ESW4 12-42J18-LP to 12-46P18-LP

Selections for ESW4 Closed Circuit Coolers are available from EVAPCO's Spectrum Equipment Selection Program or the ESW4 Thermal Performance Charts located on evapco.com.

Note: The coil connections increase to 152 mm when the flow rate exceeds 28 l/s per coil. This required option is referred to as the High Flow coil configuration.



Model Number ¹	Weights (kg)			Fans		Spray Pump	Coil Volume (liters)	Dimensions ³			
	Shipping	Operating	Heaviest Section ²	kW	m ³ /s			Height H (mm)	Lower L (mm)	Upper U (mm)	Coil A (mm)
ESW4 12-42J18-LP	9600	14555	5930	11	50.4	(2) 5.5	800	5769	2619	3150	305
ESW4 12-42K18-LP	9625	14585	5930	15	55.1	(2) 5.5	800	5769	2619	3150	305
ESW4 12-42L18-LP	9650	14605	5930	18.5	59.2	(2) 5.5	800	5769	2619	3150	305
ESW4 12-42M18-LP	9700	14655	5930	22	62.7	(2) 5.5	800	5769	2619	3150	305
ESW4 12-42N18-LP	9815	14775	5930	30	68.5	(2) 5.5	800	5769	2619	3150	305
ESW4 12-42O18-LP	9845	14800	5930	37	73.4	(2) 5.5	800	5769	2619	3150	305
ESW4 12-42P18-LP	9895	14850	5930	45	77.8	(2) 5.5	800	5769	2619	3150	305
ESW4 12-43J18-LP	10640	15960	6970	11	50.4	(2) 5.5	1170	5959	2810	3150	495
ESW4 12-43K18-LP	10670	15990	6970	15	55.1	(2) 5.5	1170	5959	2810	3150	495
ESW4 12-43L18-LP	10690	16010	6970	18.5	59.2	(2) 5.5	1170	5959	2810	3150	495
ESW4 12-43M18-LP	10740	16060	6970	22	62.7	(2) 5.5	1170	5959	2810	3150	495
ESW4 12-43N18-LP	10860	16180	6970	30	68.5	(2) 5.5	1170	5959	2810	3150	495
ESW4 12-43O18-LP	10885	16205	6970	37	73.4	(2) 5.5	1170	5959	2810	3150	495
ESW4 12-43P18-LP	10935	16255	6970	45	77.8	(2) 5.5	1170	5959	2810	3150	495
ESW4 12-44J18-LP	11690	17375	8020	11	50.4	(2) 5.5	1530	6150	3000	3150	686
ESW4 12-44K18-LP	11715	17400	8020	15	55.1	(2) 5.5	1530	6150	3000	3150	686
ESW4 12-44L18-LP	11740	17420	8020	18.5	59.2	(2) 5.5	1530	6150	3000	3150	686
ESW4 12-44M18-LP	11790	17470	8020	22	62.7	(2) 5.5	1530	6150	3000	3150	686
ESW4 12-44N18-LP	11905	17590	8020	30	68.5	(2) 5.5	1530	6150	3000	3150	686
ESW4 12-44O18-LP	11935	17620	8020	37	73.4	(2) 5.5	1530	6150	3000	3150	686
ESW4 12-44P18-LP	11985	17665	8020	45	77.8	(2) 5.5	1530	6150	3000	3150	686
ESW4 12-45J18-LP	12780	18830	9115	11	50.4	(2) 5.5	1890	6340	3191	3150	876
ESW4 12-45K18-LP	12810	18855	9115	15	55.1	(2) 5.5	1890	6340	3191	3150	876
ESW4 12-45L18-LP	12830	18880	9115	18.5	59.2	(2) 5.5	1890	6340	3191	3150	876
ESW4 12-45M18-LP	12880	18930	9115	22	62.7	(2) 5.5	1890	6340	3191	3150	876
ESW4 12-45N18-LP	13000	19045	9115	30	68.5	(2) 5.5	1890	6340	3191	3150	876
ESW4 12-45O18-LP	13025	19075	9115	37	73.4	(2) 5.5	1890	6340	3191	3150	876
ESW4 12-45P18-LP	13075	19125	9115	45	77.8	(2) 5.5	1890	6340	3191	3150	876
ESW4 12-46J18-LP	13785	20195	10115	11	50.4	(2) 5.5	2260	6531	3381	3150	1067
ESW4 12-46K18-LP	13810	20220	10115	15	55.1	(2) 5.5	2260	6531	3381	3150	1067
ESW4 12-46L18-LP	13835	20245	10115	18.5	59.2	(2) 5.5	2260	6531	3381	3150	1067
ESW4 12-46M18-LP	13885	20295	10115	22	62.7	(2) 5.5	2260	6531	3381	3150	1067
ESW4 12-46N18-LP	14000	20410	10115	30	68.5	(2) 5.5	2260	6531	3381	3150	1067
ESW4 12-46O18-LP	14030	20440	10115	37	73.4	(2) 5.5	2260	6531	3381	3150	1067
ESW4 12-46P18-LP	14080	20490	10115	45	77.8	(2) 5.5	2260	6531	3381	3150	1067

1 Model numbers will end in "-Z" for units with Series Flow piping configuration. Series Flow will require crossover piping. Model numbers will include "C" for units with stainless steel coil(s), "R" for units with low sound fan(s).

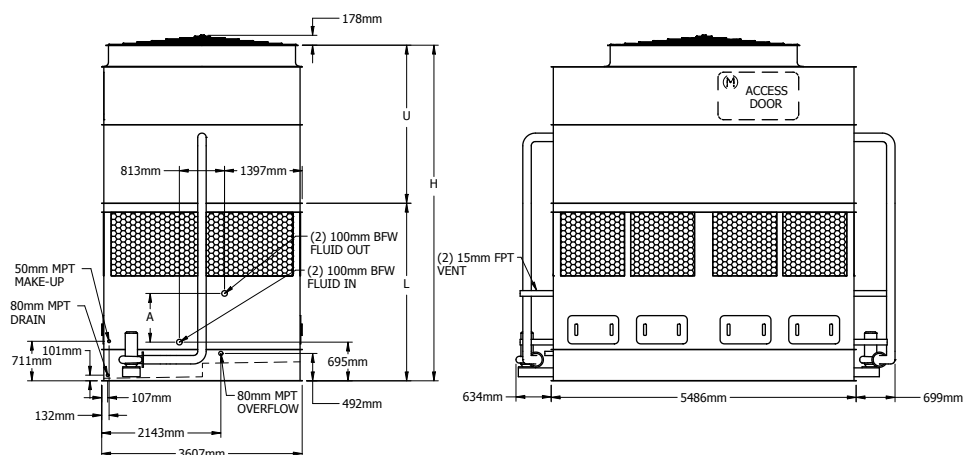
2 Heaviest section is the lower section.

3 Unit dimensions may vary slightly from catalog. See factory certified prints for exact dimensions. Coil connections are 101 mm bevel for weld (BFW). Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Engineering Data & Dimensions

Models: ESW4 12-22J18-SP to 12-26N18-SP

Note: The coil connections increase to 152 mm when the flow rate exceeds 28 l/s per coil. This required option is referred to as the High Flow coil configuration.



Model Number ¹	Weights (kg)			Fans		Spray Pump	Coil Volume (liters)	Dimensions ³			
	Shipping	Operating	Heaviest Section ²	kW	m ³ /s	kW		Height H (mm)	Lower L (mm)	Upper U (mm)	Coil A (mm)
ESW4 12-22J18-SP	8880	13840	5890	11	52,0	(2) 4	800	5159	2619	2540	305
ESW4 12-22K18-SP	8910	13865	5890	15	56,9	(2) 4	800	5159	2619	2540	305
ESW4 12-22L18-SP	8930	13890	5890	18,5	61,2	(2) 4	800	5159	2619	2540	305
ESW4 12-22M18-SP	8980	13940	5890	22	64,8	(2) 4	800	5159	2619	2540	305
ESW4 12-22N18-SP	9100	14055	5890	30	71,0	(2) 4	800	5159	2619	2540	305
ESW4 12-23J18-SP	9925	15245	6930	11	52,0	(2) 4	1170	5350	2810	2540	495
ESW4 12-23K18-SP	9950	15270	6930	15	56,9	(2) 4	1170	5350	2810	2540	495
ESW4 12-23L18-SP	9975	15295	6930	18,5	61,2	(2) 4	1170	5350	2810	2540	495
ESW4 12-23M18-SP	10025	15345	6930	22	64,8	(2) 4	1170	5350	2810	2540	495
ESW4 12-23N18-SP	10140	15465	6930	30	71,0	(2) 4	1170	5350	2810	2540	495
ESW4 12-24J18-SP	10970	16655	7980	11	52,0	(2) 4	1530	5540	3000	2540	686
ESW4 12-24K18-SP	11000	16685	7980	15	56,9	(2) 4	1530	5540	3000	2540	686
ESW4 12-24L18-SP	11020	16705	7980	18,5	61,2	(2) 4	1530	5540	3000	2540	686
ESW4 12-24M18-SP	11070	16755	7980	22	64,8	(2) 4	1530	5540	3000	2540	686
ESW4 12-24N18-SP	11190	16875	7980	30	71,0	(2) 4	1530	5540	3000	2540	686
ESW4 12-25J18-SP	12065	18110	9070	11	52,0	(2) 4	1890	5731	3191	2540	876
ESW4 12-25K18-SP	12095	18140	9070	15	56,9	(2) 4	1890	5731	3191	2540	876
ESW4 12-25L18-SP	12115	18160	9070	18,5	61,2	(2) 4	1890	5731	3191	2540	876
ESW4 12-25M18-SP	12165	18210	9070	22	64,8	(2) 4	1890	5731	3191	2540	876
ESW4 12-25N18-SP	12285	18330	9070	30	71,0	(2) 4	1890	5731	3191	2540	876
ESW4 12-26J18-SP	13070	19475	10075	11	52,0	(2) 4	2260	5921	3381	2540	1067
ESW4 12-26K18-SP	13095	19505	10075	15	56,9	(2) 4	2260	5921	3381	2540	1067
ESW4 12-26L18-SP	13120	19525	10075	18,5	61,2	(2) 4	2260	5921	3381	2540	1067
ESW4 12-26M18-SP	13170	19575	10075	22	64,8	(2) 4	2260	5921	3381	2540	1067
ESW4 12-26N18-SP	13285	19695	10075	30	71,0	(2) 4	2260	5921	3381	2540	1067

¹ Model numbers will end in "Z" for units with Series Flow piping configuration. Series Flow will require crossover piping. Model numbers will include "C" for units with stainless steel coil(s), "R" for units with low sound fan(s).

² Heaviest section is the lower section.

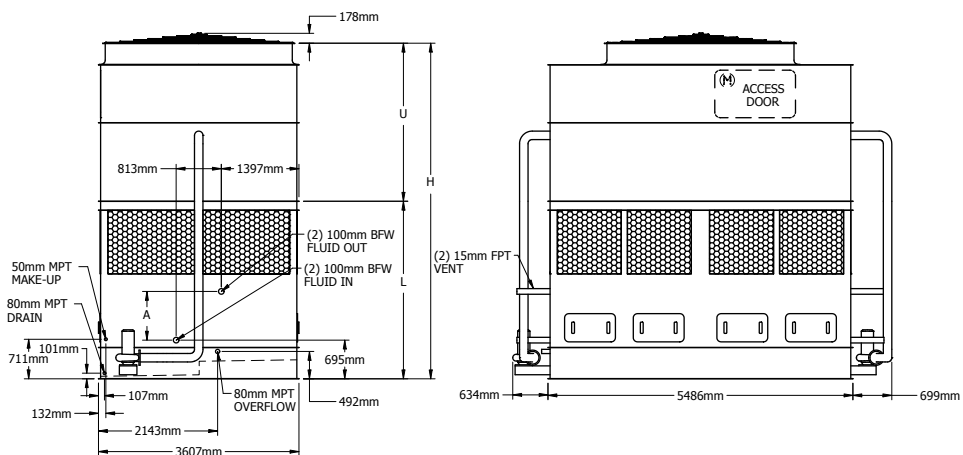
³ Unit dimensions may vary slightly from catalog. See factory certified prints for exact dimensions. Coil connections are 101 mm bevel for weld (BFW). Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Engineering Data & Dimensions

Models: ESW4 12-32J18-SP to 12-36O18-SP

Selections for ESW4 Closed Circuit Coolers are available from EVAPCO's Spectrum Equipment Selection Program or the ESW4 Thermal Performance Charts located on evapco.com.

Note: The coil connections increase to 152 mm when the flow rate exceeds 28 l/s per coil. This required option is referred to as the High Flow coil configuration.



Model Number ¹	Weights (kg)			Fans		Spray Pump	Coil Volume (liters)	Dimensions ³			
	Shipping	Operating	Heaviest Section ²	kW	m ³ /s	kW		Height H (mm)	Lower L (mm)	Upper U (mm)	Coil A (mm)
ESW4 12-32J18-SP	9240	14195	5890	11	51,2	(2) 4	800	5464	2619	2845	305
ESW4 12-32K18-SP	9265	14225	5890	15	56,0	(2) 4	800	5464	2619	2845	305
ESW4 12-32L18-SP	9290	14245	5890	18,5	60,1	(2) 4	800	5464	2619	2845	305
ESW4 12-32M18-SP	9340	14295	5890	22	63,7	(2) 4	800	5464	2619	2845	305
ESW4 12-32N18-SP	9455	14415	5890	30	69,7	(2) 4	800	5464	2619	2845	305
ESW4 12-32O18-SP	9485	14440	5890	37	74,8	(2) 4	800	5464	2619	2845	305
ESW4 12-33J18-SP	10285	15605	6930	11	51,2	(2) 4	1170	5655	2810	2845	495
ESW4 12-33K18-SP	10310	15630	6930	15	56,0	(2) 4	1170	5655	2810	2845	495
ESW4 12-33L18-SP	10335	15655	6930	18,5	60,1	(2) 4	1170	5655	2810	2845	495
ESW4 12-33M18-SP	10385	15705	6930	22	63,7	(2) 4	1170	5655	2810	2845	495
ESW4 12-33N18-SP	10500	15820	6930	30	69,7	(2) 4	1170	5655	2810	2845	495
ESW4 12-33O18-SP	10530	15850	6930	37	74,8	(2) 4	1170	5655	2810	2845	495
ESW4 12-34J18-SP	11330	17015	7980	11	51,2	(2) 4	1530	5845	3000	2845	686
ESW4 12-34K18-SP	11360	17040	7980	15	56,0	(2) 4	1530	5845	3000	2845	686
ESW4 12-34L18-SP	11380	17065	7980	18,5	60,1	(2) 4	1530	5845	3000	2845	686
ESW4 12-34M18-SP	11430	17115	7980	22	63,7	(2) 4	1530	5845	3000	2845	686
ESW4 12-34N18-SP	11550	17230	7980	30	69,7	(2) 4	1530	5845	3000	2845	686
ESW4 12-34O18-SP	11575	17260	7980	37	74,8	(2) 4	1530	5845	3000	2845	686
ESW4 12-35J18-SP	12425	18470	9070	11	51,2	(2) 4	1890	6036	3191	2845	876
ESW4 12-35K18-SP	12450	18495	9070	15	56,0	(2) 4	1890	6036	3191	2845	876
ESW4 12-35L18-SP	12475	18520	9070	18,5	60,1	(2) 4	1890	6036	3191	2845	876
ESW4 12-35M18-SP	12525	18570	9070	22	63,7	(2) 4	1890	6036	3191	2845	876
ESW4 12-35N18-SP	12640	18690	9070	30	69,7	(2) 4	1890	6036	3191	2845	876
ESW4 12-35O18-SP	12670	18715	9070	37	74,8	(2) 4	1890	6036	3191	2845	876
ESW4 12-36J18-SP	13425	19835	10075	11	51,2	(2) 4	2260	6226	3381	2845	1067
ESW4 12-36K18-SP	13455	19865	10075	15	56,0	(2) 4	2260	6226	3381	2845	1067
ESW4 12-36L18-SP	13475	19885	10075	18,5	60,1	(2) 4	2260	6226	3381	2845	1067
ESW4 12-36M18-SP	13525	19935	10075	22	63,7	(2) 4	2260	6226	3381	2845	1067
ESW4 12-36N18-SP	13645	20055	10075	30	69,7	(2) 4	2260	6226	3381	2845	1067
ESW4 12-36O18-SP	13670	20080	10075	37	74,8	(2) 4	2260	6226	3381	2845	1067

1 Model numbers will end in "-Z" for units with Series Flow piping configuration. Series Flow will require crossover piping. Model numbers will include "C" for units with stainless steel coil(s), "R" for units with low sound fan(s).

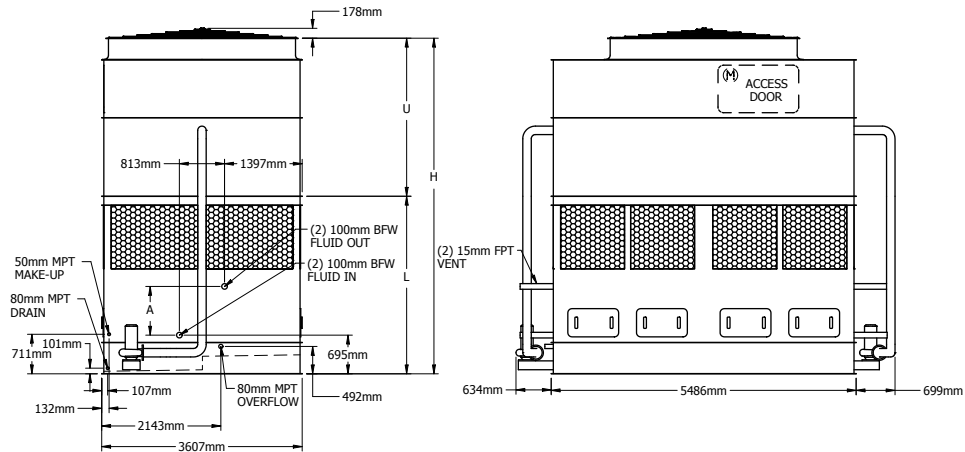
2 Heaviest section is the lower section.

3 Unit dimensions may vary slightly from catalog. See factory certified prints for exact dimensions. Coil connections are 101 mm bevel for weld (BFW). Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Engineering Data & Dimensions

Models: ESW4 12-42J18-SP to 12-46P18-SP

Note: The coil connections increase to 152 mm when the flow rate exceeds 28 l/s per coil. This required option is referred to as the High Flow coil configuration.



Model Number ¹	Weights (kg)			Fans		Spray Pump	Coil Volume (liters)	Dimensions ³			
	Shipping	Operating	Heaviest Section ²	kW	m ³ /s			Height H (mm)	Lower L (mm)	Upper U (mm)	Coil A (mm)
ESW4 12-42J18-SP	9555	14515	5890	11	50,4	2 4	800	5769	2619	3150	305
ESW4 12-42K18-SP	9585	14540	5890	15	55,1	2 4	800	5769	2619	3150	305
ESW4 12-42L18-SP	9605	14565	5890	18,5	59,2	2 4	800	5769	2619	3150	305
ESW4 12-42M18-SP	9655	14615	5890	22	62,7	2 4	800	5769	2619	3150	305
ESW4 12-42N18-SP	9775	14735	5890	30	68,5	2 4	800	5769	2619	3150	305
ESW4 12-42O18-SP	9800	14760	5890	37	73,4	2 4	800	5769	2619	3150	305
ESW4 12-42P18-SP	9850	14810	5890	45	77,8	2 4	800	5769	2619	3150	305
ESW4 12-43J18-SP	10600	15920	6930	11	50,4	2 4	1170	5959	2810	3150	495
ESW4 12-43K18-SP	10630	15950	6930	15	55,1	2 4	1170	5959	2810	3150	495
ESW4 12-43L18-SP	10650	15970	6930	18,5	59,2	2 4	1170	5959	2810	3150	495
ESW4 12-43M18-SP	10700	16020	6930	22	62,7	2 4	1170	5959	2810	3150	495
ESW4 12-43N18-SP	10820	16140	6930	30	68,5	2 4	1170	5959	2810	3150	495
ESW4 12-43O18-SP	10845	16165	6930	37	73,4	2 4	1170	5959	2810	3150	495
ESW4 12-43P18-SP	10895	16215	6930	45	77,8	2 4	1170	5959	2810	3150	495
ESW4 12-44J18-SP	11650	17330	7980	11	50,4	2 4	1530	6150	3000	3150	686
ESW4 12-44K18-SP	11675	17360	7980	15	55,1	2 4	1530	6150	3000	3150	686
ESW4 12-44L18-SP	11700	17380	7980	18,5	59,2	2 4	1530	6150	3000	3150	686
ESW4 12-44M18-SP	11750	17430	7980	22	62,7	2 4	1530	6150	3000	3150	686
ESW4 12-44N18-SP	11865	17550	7980	30	68,5	2 4	1530	6150	3000	3150	686
ESW4 12-44O18-SP	11895	17575	7980	37	73,4	2 4	1530	6150	3000	3150	686
ESW4 12-44P18-SP	11945	17625	7980	45	77,8	2 4	1530	6150	3000	3150	686
ESW4 12-45J18-SP	12740	18790	9070	11	50,4	2 4	1890	6340	3191	3150	876
ESW4 12-45K18-SP	12770	18815	9070	15	55,1	2 4	1890	6340	3191	3150	876
ESW4 12-45L18-SP	12790	18840	9070	18,5	59,2	2 4	1890	6340	3191	3150	876
ESW4 12-45M18-SP	12840	18890	9070	22	62,7	2 4	1890	6340	3191	3150	876
ESW4 12-45N18-SP	12960	19005	9070	30	68,5	2 4	1890	6340	3191	3150	876
ESW4 12-45O18-SP	12985	19035	9070	37	73,4	2 4	1890	6340	3191	3150	876
ESW4 12-45P18-SP	13035	19085	9070	45	77,8	2 4	1890	6340	3191	3150	876
ESW4 12-46J18-SP	13745	20155	10075	11	50,4	2 4	2260	6531	3381	3150	1067
ESW4 12-46K18-SP	13770	20180	10075	15	55,1	2 4	2260	6531	3381	3150	1067
ESW4 12-46L18-SP	13795	20205	10075	18,5	59,2	2 4	2260	6531	3381	3150	1067
ESW4 12-46M18-SP	13845	20255	10075	22	62,7	2 4	2260	6531	3381	3150	1067
ESW4 12-46N18-SP	13960	20370	10075	30	68,5	2 4	2260	6531	3381	3150	1067
ESW4 12-46O18-SP	13990	20400	10075	37	73,4	2 4	2260	6531	3381	3150	1067
ESW4 12-46P18-SP	14040	20450	10075	45	77,8	2 4	2260	6531	3381	3150	1067

¹ Model numbers will end in "Z" for units with Series Flow piping configuration. Series Flow will require crossover piping. Model numbers will include "C" for units with stainless steel coil(s), "R" for units with low sound fan(s).

² Heaviest section is the lower section.

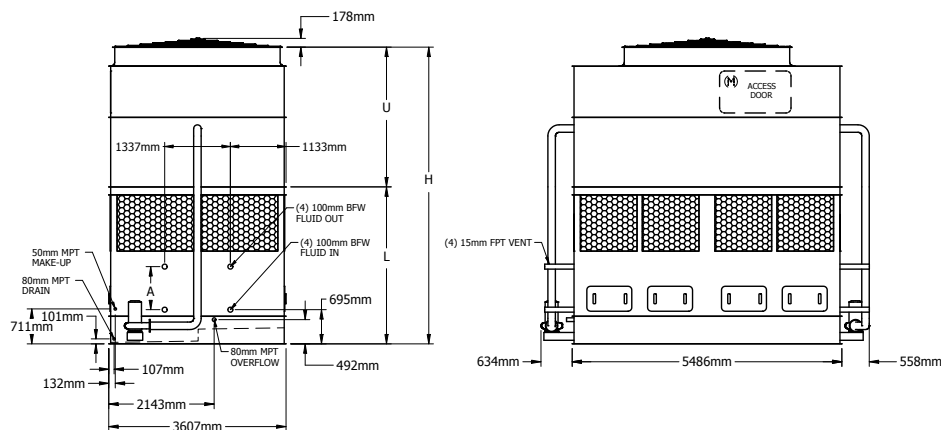
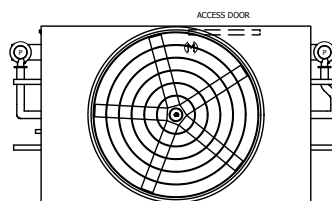
³ Unit dimensions may vary slightly from catalog. See factory certified prints for exact dimensions. Coil connections are 101 mm bevel for weld (BFW). Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Engineering Data & Dimensions

Models: ESW4 12-25J18-LF to 12-26N18-LF

Selections for ESW4 Closed Circuit Coolers are available from EVAPCO's Spectrum Equipment Selection Program or the ESW4 Thermal Performance Charts located on evapco.com.

Note: The coil connections increase to 152 mm when the flow rate exceeds 28 l/s per coil. This required option is referred to as the High Flow coil configuration.



Model Number ¹	Weights (kg)			Fans		Spray Pump	Coil Volume (liters)	Dimensions ³			
	Shipping	Operating	Heaviest Section ²	kW	m ³ /s	kW		Height H (mm)	Lower L (mm)	Upper U (mm)	Coil A (mm)
ESW4 12-25J18-LF	14540	21525	11545	11	52,0	(2) 5.5	2830	5731	3191	2540	876
ESW4 12-25K18-LF	14565	21550	11545	15	56,9	(2) 5.5	2830	5731	3191	2540	876
ESW4 12-25L18-LF	14590	21575	11545	18,5	61,2	(2) 5.5	2830	5731	3191	2540	876
ESW4 12-25M18-LF	14635	21625	11545	22	64,8	(2) 5.5	2830	5731	3191	2540	876
ESW4 12-25N18-LF	14755	21740	11545	30	71,0	(2) 5.5	2830	5731	3191	2540	876
ESW4 12-26J18-LF	16010	23535	13020	11	52,0	(2) 5.5	3380	5921	3381	2540	1067
ESW4 12-26K18-LF	16040	23565	13020	15	56,9	(2) 5.5	3380	5921	3381	2540	1067
ESW4 12-26L18-LF	16060	23585	13020	18,5	61,2	(2) 5.5	3380	5921	3381	2540	1067
ESW4 12-26M18-LF	16110	23635	13020	22	64,8	(2) 5.5	3380	5921	3381	2540	1067
ESW4 12-26N18-LF	16230	23755	13020	30	71,0	(2) 5.5	3380	5921	3381	2540	1067

¹ Model numbers will end in "-Z" for units with Series Flow piping configuration. Series Flow will require crossover piping. Model numbers will include "C" for units with stainless steel coil(s), "R" for units with low sound fan(s).

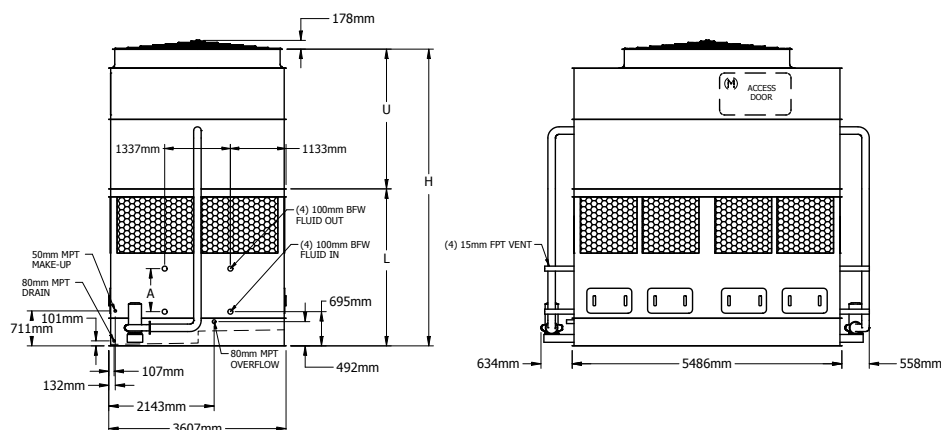
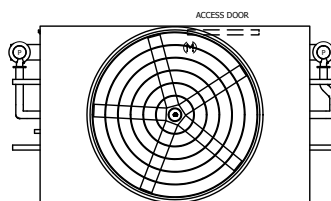
² Heaviest section is the lower section.

³ Unit dimensions may vary slightly from catalog. See factory certified prints for exact dimensions. Coil connections are 101 mm bevel for weld (BFW). Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Engineering Data & Dimensions

Models: ESW4 12-35J18-LF to 12-36O18-LF

Note: The coil connections increase to 152 mm when the flow rate exceeds 28 l/s per coil. This required option is referred to as the High Flow coil configuration.



Model Number ¹	Weights (kg)			Fans		Spray Pump	Coil Volume (liters)	Dimensions ³			
	Shipping	Operating	Heaviest Section ²	kW	m ³ /s	kW		Height H (mm)	Lower L (mm)	Upper U (mm)	Coil A (mm)
ESW4 12-35J18-LF	14895	21880	11545	11	51,2	(2) 5.5	2830	6036	3191	2845	876
ESW4 12-35K18-LF	14925	21910	11545	15	56,0	(2) 5.5	2830	6036	3191	2845	876
ESW4 12-35L18-LF	14945	21930	11545	18,5	60,1	(2) 5.5	2830	6036	3191	2845	876
ESW4 12-35M18-LF	14995	21980	11545	22	63,7	(2) 5.5	2830	6036	3191	2845	876
ESW4 12-35N18-LF	15115	22100	11545	30	69,7	(2) 5.5	2830	6036	3191	2845	876
ESW4 12-35O18-LF	15140	22125	11545	37	74,8	(2) 5.5	2830	6036	3191	2845	876
ESW4 12-36J18-LF	16370	23895	13020	11	51,2	(2) 5.5	3380	6226	3381	2845	1067
ESW4 12-36K18-LF	16395	23920	13020	15	56,0	(2) 5.5	3380	6226	3381	2845	1067
ESW4 12-36L18-LF	16420	23945	13020	18,5	60,1	(2) 5.5	3380	6226	3381	2845	1067
ESW4 12-36M18-LF	16470	23995	13020	22	63,7	(2) 5.5	3380	6226	3381	2845	1067
ESW4 12-36N18-LF	16590	24115	13020	30	69,7	(2) 5.5	3380	6226	3381	2845	1067
ESW4 12-36O18-LF	16615	24140	13020	37	74,8	(2) 5.5	3380	6226	3381	2845	1067

¹ Model numbers will end in "-Z" for units with Series Flow piping configuration. Series Flow will require crossover piping. Model numbers will include "C" for units with stainless steel coil(s), "R" for units with low sound fan(s).

² Heaviest section is the lower section.

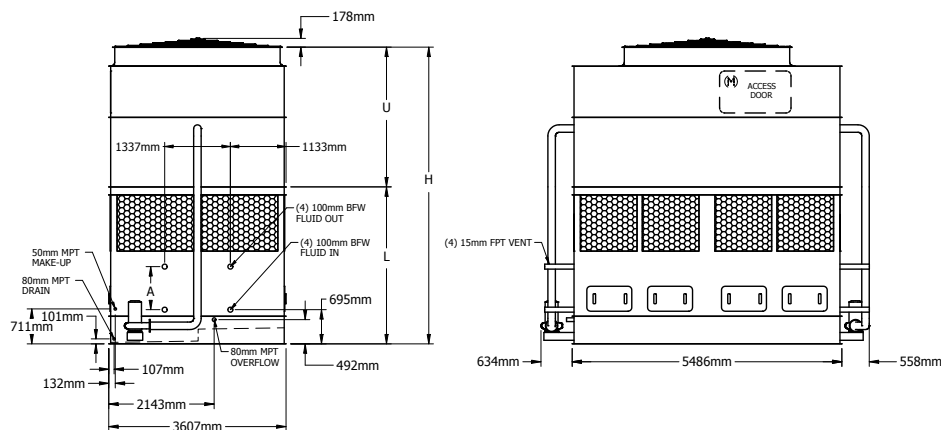
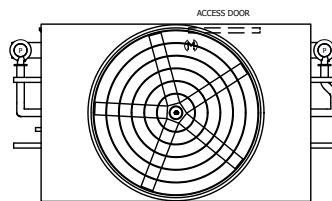
³ Unit dimensions may vary slightly from catalog. See factory certified prints for exact dimensions. Coil connections are 101 mm bevel for weld (BFW). Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Engineering Data & Dimensions

Models: ESW4 12-45J18-LF to 12-46P18-LF

Selections for ESW4 Closed Circuit Coolers are available from EVAPCO's Spectrum Equipment Selection Program or the ESW4 Thermal Performance Charts located on evapco.com.

Note: The coil connections increase to 152 mm when the flow rate exceeds 28 l/s per coil. This required option is referred to as the High Flow coil configuration.



Model Number ¹	Weights (kg)			Fans		Spray Pump	Coil Volume (liters)	Dimensions ³			
	Shipping	Operating	Heaviest Section ²	kW	m ³ /s	kW		Height H (mm)	Lower L (mm)	Upper U (mm)	Coil A (mm)
ESW4 12-45J18-LF	15215	22200	11545	11	50,4	(2) 5.5	2830	6340	3191	3150	876
ESW4 12-45K18-LF	15240	22225	11545	15	55,1	(2) 5.5	2830	6340	3191	3150	876
ESW4 12-45L18-LF	15265	22250	11545	18,5	59,2	(2) 5.5	2830	6340	3191	3150	876
ESW4 12-45M18-LF	15315	22300	11545	22	62,7	(2) 5.5	2830	6340	3191	3150	876
ESW4 12-45N18-LF	15430	22415	11545	30	68,5	(2) 5.5	2830	6340	3191	3150	876
ESW4 12-45O18-LF	15460	22445	11545	37	73,4	(2) 5.5	2830	6340	3191	3150	876
ESW4 12-45P18-LF	15510	22495	11545	45	77,8	(2) 5.5	2830	6340	3191	3150	876
ESW4 12-46J18-LF	16690	24215	13020	11	50,4	(2) 5.5	3380	6531	3381	3150	1067
ESW4 12-46K18-LF	16715	24240	13020	15	55,1	(2) 5.5	3380	6531	3381	3150	1067
ESW4 12-46L18-LF	16740	24265	13020	18,5	59,2	(2) 5.5	3380	6531	3381	3150	1067
ESW4 12-46M18-LF	16785	24315	13020	22	62,7	(2) 5.5	3380	6531	3381	3150	1067
ESW4 12-46N18-LF	16905	24430	13020	30	68,5	(2) 5.5	3380	6531	3381	3150	1067
ESW4 12-46O18-LF	16935	24460	13020	37	73,4	(2) 5.5	3380	6531	3381	3150	1067
ESW4 12-46P18-LF	16980	24510	13020	45	77,8	(2) 5.5	3380	6531	3381	3150	1067

¹ Model numbers will end in "-Z" for units with Series Flow piping configuration. Series Flow will require crossover piping. Model numbers will include "C" for units with stainless steel coil[s], "R" for units with low sound fan[s].

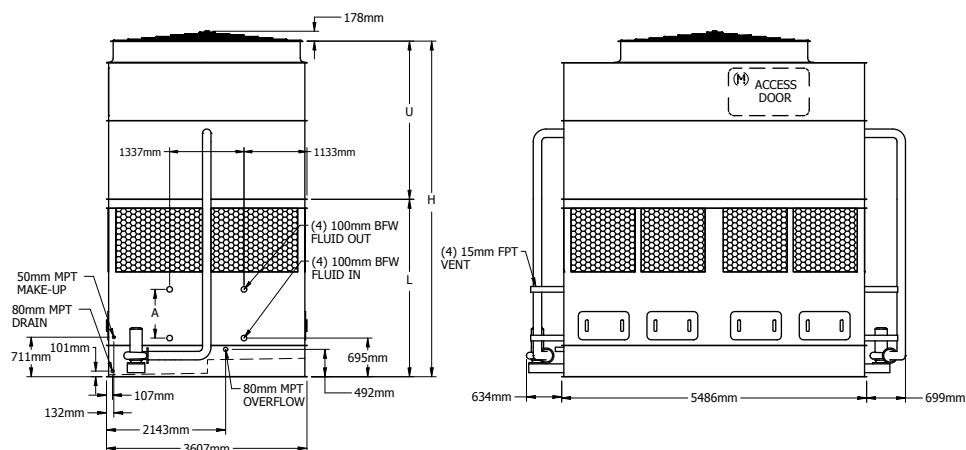
² Heaviest section is the lower section.

³ Unit dimensions may vary slightly from catalog. See factory certified prints for exact dimensions. Coil connections are 101 mm bevel for weld (BFW). Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Engineering Data & Dimensions

Models: ESW4 12-25J18-SF to 12-26N18-SF

Note: The coil connections increase to 152 mm when the flow rate exceeds 28 l/s per coil. This required option is referred to as the High Flow coil configuration.



Model Number ¹	Weights (kg)			Fans		Spray Pump	Coil Volume (liters)	Dimensions ³			
	Shipping	Operating	Heaviest Section ²	kW	m ³ /s	kW		Height H (mm)	Lower L (mm)	Upper U (mm)	Coil A (mm)
ESW4 12-25J18-SF	14495	21480	11505	11	52,0	(2) 4	2830	5731	3191	2540	876
ESW4 12-25K18-SF	14525	21510	11505	15	56,9	(2) 4	2830	5731	3191	2540	876
ESW4 12-25L18-SF	14545	21530	11505	18,5	61,2	(2) 4	2830	5731	3191	2540	876
ESW4 12-25M18-SF	14595	21580	11505	22	64,8	(2) 4	2830	5731	3191	2540	876
ESW4 12-25N18-SF	14715	21700	11505	30	71,0	(2) 4	2830	5731	3191	2540	876
ESW4 12-26J18-SF	15970	23495	12975	11	52,0	(2) 4	3380	5921	3381	2540	1067
ESW4 12-26K18-SF	16000	23525	12975	15	56,9	(2) 4	3380	5921	3381	2540	1067
ESW4 12-26L18-SF	16020	23545	12975	18,5	61,2	(2) 4	3380	5921	3381	2540	1067
ESW4 12-26M18-SF	16070	23595	12975	22	64,8	(2) 4	3380	5921	3381	2540	1067
ESW4 12-26N18-SF	16190	23715	12975	30	71,0	(2) 4	3380	5921	3381	2540	1067

¹ Model numbers will end in "-Z" for units with Series Flow piping configuration. Series Flow will require crossover piping. Model numbers will include "C" for units with stainless steel coil(s), "R" for units with low sound fan(s).

² Heaviest section is the lower section.

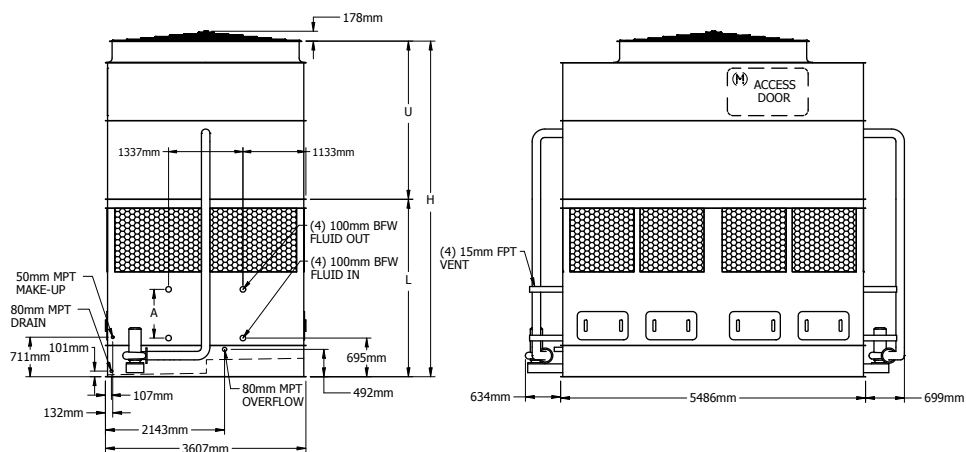
³ Unit dimensions may vary slightly from catalog. See factory certified prints for exact dimensions. Coil connections are 101 mm bevel for weld (BFW). Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Engineering Data & Dimensions

Models: ESW4 12-35J18-SF to 12-36O18-SF

Selections for ESW4 Closed Circuit Coolers are available from EVAPCO's Spectrum Equipment Selection Program or the ESW4 Thermal Performance Charts located on evapco.com.

Note: The coil connections increase to 152 mm when the flow rate exceeds 28 l/s per coil. This required option is referred to as the High Flow coil configuration.



Model Number ¹	Weights (kg)			Fans		Spray Pump	Coil Volume (liters)	Dimensions ³			
	Shipping	Operating	Heaviest Section ²	kW	m ³ /s	kW		Height H (mm)	Lower L (mm)	Upper U (mm)	Coil A (mm)
ESW4 12-35J18-SF	14855	21840	11505	11	51,2	(2) 4	2830	6036	3191	2845	876
ESW4 12-35K18-SF	14880	21870	11505	15	56,0	(2) 4	2830	6036	3191	2845	876
ESW4 12-35L18-SF	14905	21890	11505	18,5	60,1	(2) 4	2830	6036	3191	2845	876
ESW4 12-35M18-SF	14955	21940	11505	22	63,7	(2) 4	2830	6036	3191	2845	876
ESW4 12-35N18-SF	15075	22060	11505	30	69,7	(2) 4	2830	6036	3191	2845	876
ESW4 12-35O18-SF	15100	22085	11505	37	74,8	(2) 4	2830	6036	3191	2845	876
ESW4 12-36J18-SF	16330	23855	12975	11	51,2	(2) 4	3380	6226	3381	2845	1067
ESW4 12-36K18-SF	16355	23880	12975	15	56,0	(2) 4	3380	6226	3381	2845	1067
ESW4 12-36L18-SF	16380	23905	12975	18,5	60,1	(2) 4	3380	6226	3381	2845	1067
ESW4 12-36M18-SF	16430	23955	12975	22	63,7	(2) 4	3380	6226	3381	2845	1067
ESW4 12-36N18-SF	16545	24070	12975	30	69,7	(2) 4	3380	6226	3381	2845	1067
ESW4 12-36O18-SF	16575	24100	12975	37	74,8	(2) 4	3380	6226	3381	2845	1067

¹ Model numbers will end in "-Z" for units with Series Flow piping configuration. Series Flow will require crossover piping. Model numbers will include "C" for units with stainless steel coil(s), "R" for units with low sound fan(s).

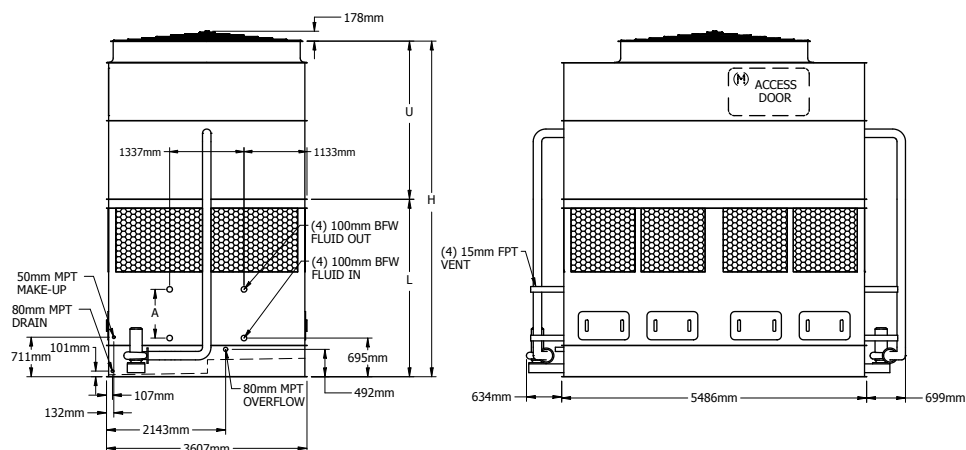
² Heaviest section is the lower section.

³ Unit dimensions may vary slightly from catalog. See factory certified prints for exact dimensions. Coil connections are 101 mm bevel for weld (BFW). Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Engineering Data & Dimensions

Models: ESW4 12-45J18-SF to 12-46P18-SF

Note: The coil connections increase to 152 mm when the flow rate exceeds 28 l/s per coil. This required option is referred to as the High Flow coil configuration.



Model Number ¹	Weights (kg)			Fans		Spray Pump	Coil Volume (liters)	Dimensions ³			
	Shipping	Operating	Heaviest Section ²	kW	m ³ /s	kW		Height H (mm)	Lower L (mm)	Upper U (mm)	Coil A (mm)
ESW4 12-45J18-SF	15175	22160	11505	11	50,4	(2) 4	2830	6340	3191	3150	876
ESW4 12-45K18-SF	15200	22185	11505	15	55,1	(2) 4	2830	6340	3191	3150	876
ESW4 12-45L18-SF	15225	22210	11505	18,5	59,2	(2) 4	2830	6340	3191	3150	876
ESW4 12-45M18-SF	15270	22260	11505	22	62,7	(2) 4	2830	6340	3191	3150	876
ESW4 12-45N18-SF	15390	22375	11505	30	68,5	(2) 4	2830	6340	3191	3150	876
ESW4 12-45O18-SF	15420	22405	11505	37	73,4	(2) 4	2830	6340	3191	3150	876
ESW4 12-45P18-SF	15465	22455	11505	45	77,8	(2) 4	2830	6340	3191	3150	876
ESW4 12-46J18-SF	16645	24170	12975	11	50,4	(2) 4	3380	6531	3381	3150	1067
ESW4 12-46K18-SF	16675	24200	12975	15	55,1	(2) 4	3380	6531	3381	3150	1067
ESW4 12-46L18-SF	16695	24220	12975	18,5	59,2	(2) 4	3380	6531	3381	3150	1067
ESW4 12-46M18-SF	16745	24270	12975	22	62,7	(2) 4	3380	6531	3381	3150	1067
ESW4 12-46N18-SF	16865	24390	12975	30	68,5	(2) 4	3380	6531	3381	3150	1067
ESW4 12-46O18-SF	16890	24415	12975	37	73,4	(2) 4	3380	6531	3381	3150	1067
ESW4 12-46P18-SF	16940	24465	12975	45	77,8	(2) 4	3380	6531	3381	3150	1067

¹ Model numbers will end in "-Z" for units with Series Flow piping configuration. Series Flow will require crossover piping. Model numbers will include "C" for units with stainless steel coil(s), "R" for units with low sound fan(s).

² Heaviest section is the lower section.

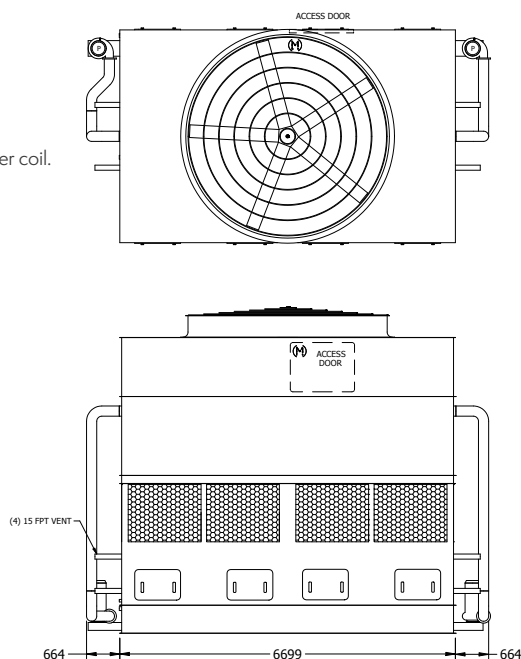
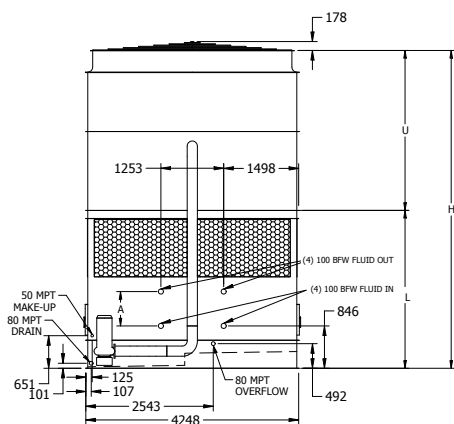
³ Unit dimensions may vary slightly from catalog. See factory certified prints for exact dimensions. Coil connections are 101 mm bevel for weld (BFW). Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Engineering Data & Dimensions

Models: ESW4 14-22K22-LP to 14-26O22-LP

Selections for ESW4 Closed Circuit Coolers are available from EVAPCO's Spectrum Equipment Selection Program or the ESW4 Thermal Performance Charts located on evapco.com.

Note: The coil connections increase to 152 mm when the flow rate exceeds 28 l/s per coil. This required option is referred to as the High Flow coil configuration.



Model Number ¹	Weights (kg)			Fans		Spray Pump	Coil Volume (liters)	Dimensions ³			
	Shipping	Operating	Heaviest Section ²	kW	m ³ /s	kW		Lower L (mm)	Upper U (mm)	Coil A (mm)	Height H (mm)
ESW4 14-22K22-LP	13755	21235	8725	15	75,3	(2) 7.5	1360	2772	2886	305	5658
ESW4 14-22L22-LP	13775	21255	8725	18,5	80,8	(2) 7.5	1360	2772	2886	305	5658
ESW4 14-22M22-LP	13785	21265	8725	22	85,7	(2) 7.5	1360	2772	2886	305	5658
ESW4 14-22N22-LP	13855	21330	8725	30	94,0	(2) 7.5	1360	2772	2886	305	5658
ESW4 14-22O22-LP	14010	21490	8725	37	100,9	(2) 7.5	1360	2772	2886	305	5658
ESW4 14-23K22-LP	15565	23670	10540	15	75,3	(2) 7.5	1990	2962	2886	495	5848
ESW4 14-23L22-LP	15590	23690	10540	18,5	80,8	(2) 7.5	1990	2962	2886	495	5848
ESW4 14-23M22-LP	15600	23700	10540	22	85,7	(2) 7.5	1990	2962	2886	495	5848
ESW4 14-23N22-LP	15665	23770	10540	30	94,0	(2) 7.5	1990	2962	2886	495	5848
ESW4 14-23O22-LP	15825	23925	10540	37	100,9	(2) 7.5	1990	2962	2886	495	5848
ESW4 14-24K22-LP	17225	25950	12195	15	75,3	(2) 7.5	2610	3153	2886	686	6039
ESW4 14-24L22-LP	17245	25975	12195	18,5	80,8	(2) 7.5	2610	3153	2886	686	6039
ESW4 14-24M22-LP	17255	25980	12195	22	85,7	(2) 7.5	2610	3153	2886	686	6039
ESW4 14-24N22-LP	17325	26050	12195	30	94,0	(2) 7.5	2610	3153	2886	686	6039
ESW4 14-24O22-LP	17480	26210	12195	37	100,9	(2) 7.5	2610	3153	2886	686	6039
ESW4 14-25K22-LP	18935	28285	13905	15	75,3	(2) 7.5	3240	3343	2886	876	6229
ESW4 14-25L22-LP	18955	28310	13905	18,5	80,8	(2) 7.5	3240	3343	2886	876	6229
ESW4 14-25M22-LP	18965	28320	13905	22	85,7	(2) 7.5	3240	3343	2886	876	6229
ESW4 14-25N22-LP	19035	28385	13905	30	94,0	(2) 7.5	3240	3343	2886	876	6229
ESW4 14-25O22-LP	19190	28545	13905	37	100,9	(2) 7.5	3240	3343	2886	876	6229
ESW4 14-26K22-LP	20605	30585	15580	15	75,3	(2) 7.5	3860	3356	2886	1067	6242
ESW4 14-26L22-LP	20630	30610	15580	18,5	80,8	(2) 7.5	3860	3356	2886	1067	6242
ESW4 14-26M22-LP	20640	30615	15580	22	85,7	(2) 7.5	3860	3356	2886	1067	6242
ESW4 14-26N22-LP	20705	30685	15580	30	94,0	(2) 7.5	3860	3356	2886	1067	6242
ESW4 14-26O22-LP	20865	30845	15580	37	100,9	(2) 7.5	3860	3356	2886	1067	6242

1 Model numbers will end in "-Z" for units with Series Flow piping configuration. Series Flow will require crossover piping. Model numbers will include "C" for units with stainless steel coil(s), "R" for units with low sound fan(s).

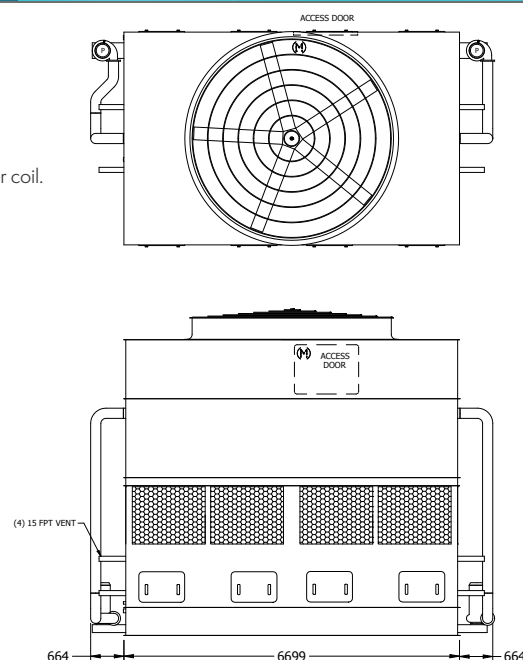
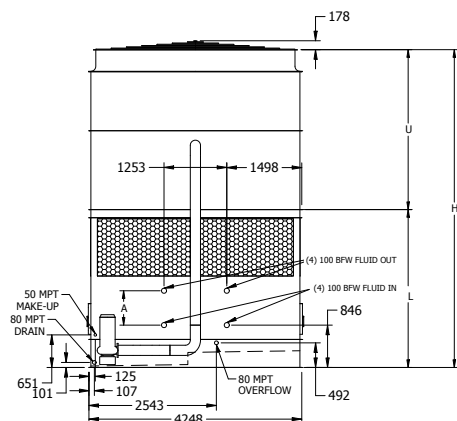
2 Heaviest section is the lower section.

3 Unit dimensions may vary slightly from catalog. See factory certified prints for exact dimensions. Coil connections are 101 mm bevel for weld (BFW). Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Engineering Data & Dimensions

Models: ESW4 14-32K22-LP to 14-36P22-LP

Note: The coil connections increase to 152 mm when the flow rate exceeds 28 l/s per coil. This required option is referred to as the High Flow coil configuration.



Model Number ¹	Weights (kg)			Fans		Spray Pump	Coil Volume (liters)	Dimensions ³			
	Shipping	Operating	Heaviest Section ²	kW	m ³ /s	kW		Lower L (mm)	Upper U (mm)	Coil A (mm)	Height H (mm)
ESW4 14-32K22-LP	14245	21725	8725	15	74,1	(2) 7.5	1360	2772	3191	305	5963
ESW4 14-32L22-LP	14265	21745	8725	18,5	79,5	(2) 7.5	1360	2772	3191	305	5963
ESW4 14-32M22-LP	14275	21755	8725	22	84,3	(2) 7.5	1360	2772	3191	305	5963
ESW4 14-32N22-LP	14345	21820	8725	30	92,3	(2) 7.5	1360	2772	3191	305	5963
ESW4 14-32O22-LP	14500	21980	8725	37	99,0	(2) 7.5	1360	2772	3191	305	5963
ESW4 14-32P22-LP	14580	22060	8725	45	104,8	(2) 7.5	1360	2772	3191	305	5963
ESW4 14-33K22-LP	16055	24160	10540	15	74,1	(2) 7.5	1990	2962	3191	495	6153
ESW4 14-33L22-LP	16080	24180	10540	18,5	79,5	(2) 7.5	1990	2962	3191	495	6153
ESW4 14-33M22-LP	16090	24190	10540	22	84,3	(2) 7.5	1990	2962	3191	495	6153
ESW4 14-33N22-LP	16155	24260	10540	30	92,3	(2) 7.5	1990	2962	3191	495	6153
ESW4 14-33O22-LP	16315	24415	10540	37	99,0	(2) 7.5	1990	2962	3191	495	6153
ESW4 14-33P22-LP	16395	24495	10540	45	104,8	(2) 7.5	1990	2962	3191	495	6153
ESW4 14-34K22-LP	17715	26440	12195	15	74,1	(2) 7.5	2610	3153	3191	686	6344
ESW4 14-34L22-LP	17735	26465	12195	18,5	79,5	(2) 7.5	2610	3153	3191	686	6344
ESW4 14-34M22-LP	17745	26470	12195	22	84,3	(2) 7.5	2610	3153	3191	686	6344
ESW4 14-34N22-LP	17815	26540	12195	30	92,3	(2) 7.5	2610	3153	3191	686	6344
ESW4 14-34O22-LP	17970	26700	12195	37	99,0	(2) 7.5	2610	3153	3191	686	6344
ESW4 14-34P22-LP	18050	26775	12195	45	104,8	(2) 7.5	2610	3153	3191	686	6344
ESW4 14-35K22-LP	19425	28775	13905	15	74,1	(2) 7.5	3240	3343	3191	876	6534
ESW4 14-35L22-LP	19445	28800	13905	18,5	79,5	(2) 7.5	3240	3343	3191	876	6534
ESW4 14-35M22-LP	19455	28810	13905	22	84,3	(2) 7.5	3240	3343	3191	876	6534
ESW4 14-35N22-LP	19525	28875	13905	30	92,3	(2) 7.5	3240	3343	3191	876	6534
ESW4 14-35O22-LP	19680	29035	13905	37	99,0	(2) 7.5	3240	3343	3191	876	6534
ESW4 14-35P22-LP	19760	29110	13905	45	104,8	(2) 7.5	3240	3343	3191	876	6534
ESW4 14-36K22-LP	21095	31075	15580	15	74,1	(2) 7.5	3860	3356	3191	1067	6547
ESW4 14-36L22-LP	21120	31100	15580	18,5	79,5	(2) 7.5	3860	3356	3191	1067	6547
ESW4 14-36M22-LP	21130	31105	15580	22	84,3	(2) 7.5	3860	3356	3191	1067	6547
ESW4 14-36N22-LP	21195	31175	15580	30	92,3	(2) 7.5	3860	3356	3191	1067	6547
ESW4 14-36O22-LP	21355	31335	15580	37	99,0	(2) 7.5	3860	3356	3191	1067	6547
ESW4 14-36P22-LP	21430	31410	15580	45	104,8	(2) 7.5	3860	3356	3191	1067	6547

¹ Model numbers will end in "Z" for units with Series Flow piping configuration. Series Flow will require crossover piping. Model numbers will include "C" for units with stainless steel coil(s), "R" for units with low sound fan(s).

² Heaviest section is the lower section.

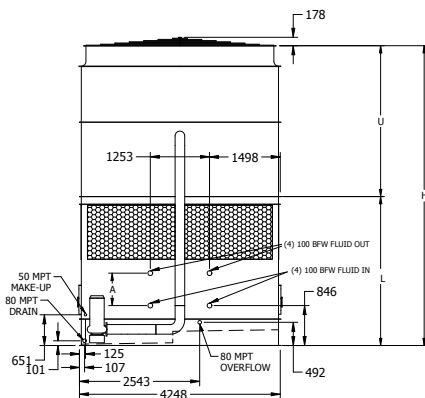
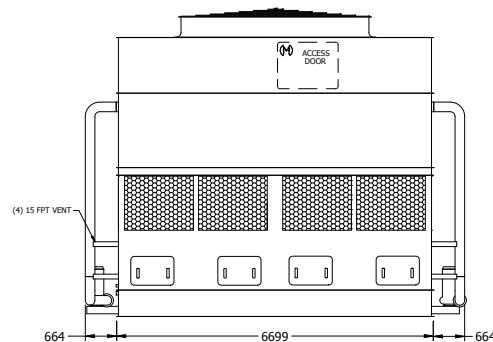
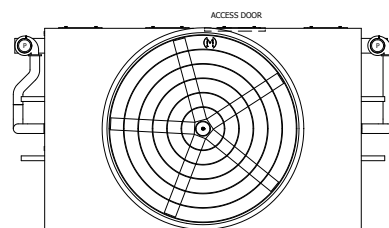
³ Unit dimensions may vary slightly from catalog. See factory certified prints for exact dimensions. Coil connections are 101 mm bevel for weld (BFW). Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Engineering Data & Dimensions

Models: ESW4 14-42K22-LP to 14-46R22-LP

Selections for ESW4 Closed Circuit Coolers are available from EVAPCO's Spectrum Equipment Selection Program or the ESW4 Thermal Performance Charts located on evapco.com.

Note: The coil connections increase to 152 mm when the flow rate exceeds 28 l/s per coil. This required option is referred to as the High Flow coil configuration.



Model Number ¹	Weights (kg)			Fans		Spray Pump	Coil Volume (liters)	Dimensions ²			
	Shipping	Operating	Heaviest Section ²	kW	m ³ /s	kW		Lower L (mm)	Upper U (mm)	Coil A (mm)	Height H (mm)
ESW4 14-42K22-LP	14705	22185	8725	15	72.8	(2) 7.5	1360	2772	3496	305	6267
ESW4 14-42L22-LP	14730	22210	8725	18.5	78.2	(2) 7.5	1360	2772	3496	305	6267
ESW4 14-42M22-LP	14735	22215	8725	22	82.8	(2) 7.5	1360	2772	3496	305	6267
ESW4 14-42N22-LP	14805	22285	8725	30	90.8	(2) 7.5	1360	2772	3496	305	6267
ESW4 14-42O22-LP	14965	22445	8725	37	97.5	(2) 7.5	1360	2772	3496	305	6267
ESW4 14-42P22-LP	15040	22520	8725	45	103.2	(2) 7.5	1360	2772	3496	305	6267
ESW4 14-42Q22-LP	15150	22630	8725	55	110.6	(2) 7.5	1360	2772	3496	305	6267
ESW4 14-42R22-LP	15350	22830	8725	75	121.1	(2) 7.5	1360	2772	3496	305	6267
ESW4 14-43K22-LP	16520	24620	10540	15	72.8	(2) 7.5	1990	2962	3496	495	6458
ESW4 14-43L22-LP	16545	24645	10540	18.5	78.2	(2) 7.5	1990	2962	3496	495	6458
ESW4 14-43M22-LP	16550	24655	10540	22	82.8	(2) 7.5	1990	2962	3496	495	6458
ESW4 14-43N22-LP	16620	24720	10540	30	90.8	(2) 7.5	1990	2962	3496	495	6458
ESW4 14-43O22-LP	16780	24880	10540	37	97.5	(2) 7.5	1990	2962	3496	495	6458
ESW4 14-43P22-LP	16855	24955	10540	45	103.2	(2) 7.5	1990	2962	3496	495	6458
ESW4 14-43Q22-LP	16965	25065	10540	55	110.6	(2) 7.5	1990	2962	3496	495	6458
ESW4 14-43R22-LP	17165	25265	10540	75	121.1	(2) 7.5	1990	2962	3496	495	6458
ESW4 14-44K22-LP	18175	26905	12195	15	72.8	(2) 7.5	2610	3153	3496	686	6648
ESW4 14-44L22-LP	18200	26925	12195	18.5	78.2	(2) 7.5	2610	3153	3496	686	6648
ESW4 14-44M22-LP	18205	26935	12195	22	82.8	(2) 7.5	2610	3153	3496	686	6648
ESW4 14-44N22-LP	18275	27000	12195	30	90.8	(2) 7.5	2610	3153	3496	686	6648
ESW4 14-44O22-LP	18435	27160	12195	37	97.5	(2) 7.5	2610	3153	3496	686	6648
ESW4 14-44P22-LP	18510	27240	12195	45	103.2	(2) 7.5	2610	3153	3496	686	6648
ESW4 14-44Q22-LP	18620	27345	12195	55	110.6	(2) 7.5	2610	3153	3496	686	6648
ESW4 14-44R22-LP	18820	27545	12195	75	121.1	(2) 7.5	2610	3153	3496	686	6648
ESW4 14-45K22-LP	19885	29240	13905	15	72.8	(2) 7.5	3240	3343	3496	876	6839
ESW4 14-45L22-LP	19910	29260	13905	18.5	78.2	(2) 7.5	3240	3343	3496	876	6839
ESW4 14-45M22-LP	19915	29270	13905	22	82.8	(2) 7.5	3240	3343	3496	876	6839
ESW4 14-45N22-LP	19985	29340	13905	30	90.8	(2) 7.5	3240	3343	3496	876	6839
ESW4 14-45O22-LP	20145	29495	13905	37	97.5	(2) 7.5	3240	3343	3496	876	6839
ESW4 14-45P22-LP	20220	29575	13905	45	103.2	(2) 7.5	3240	3343	3496	876	6839
ESW4 14-45Q22-LP	20330	29685	13905	55	110.6	(2) 7.5	3240	3343	3496	876	6839
ESW4 14-45R22-LP	20530	29885	13905	75	121.1	(2) 7.5	3240	3343	3496	876	6839
ESW4 14-46K22-LP	21560	31540	15580	15	72.8	(2) 7.5	3860	3356	3496	1067	6852
ESW4 14-46L22-LP	21580	31560	15580	18.5	78.2	(2) 7.5	3860	3356	3496	1067	6852
ESW4 14-46M22-LP	21590	31570	15580	22	82.8	(2) 7.5	3860	3356	3496	1067	6852
ESW4 14-46N22-LP	21660	31640	15580	30	90.8	(2) 7.5	3860	3356	3496	1067	6852
ESW4 14-46O22-LP	21820	31795	15580	37	97.5	(2) 7.5	3860	3356	3496	1067	6852
ESW4 14-46P22-LP	21895	31875	15580	45	103.2	(2) 7.5	3860	3356	3496	1067	6852
ESW4 14-46Q22-LP	22005	31985	15580	55	110.6	(2) 7.5	3860	3356	3496	1067	6852
ESW4 14-46R22-LP	22205	32180	15580	75	121.1	(2) 7.5	3860	3356	3496	1067	6852

¹ Model numbers will end in "-Z" for units with Series Flow piping configuration. Series Flow will require crossover piping. Model numbers will include "C" for units with stainless steel coil(s). "R" for units with low sound fan(s).

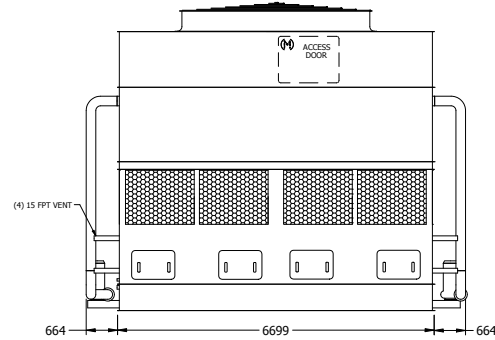
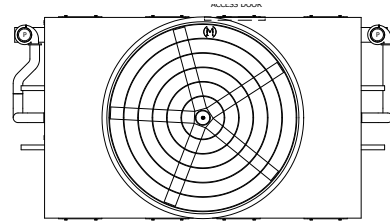
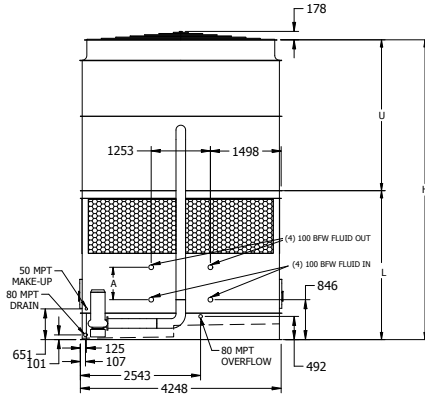
² Heaviest section is the lower section.

³ Unit dimensions may vary slightly from catalog. See factory certified prints for exact dimensions. Coil connections are 101 mm bevel for weld (BW). Other connection types such as grooved for mechanical coupling or flanged are also available as options.

Engineering Data & Dimensions

Models: ESW4 14-52K22-LP to 14-56R22-LP

Note: The coil connections increase to 152 mm when the flow rate exceeds 28 l/s per coil. This required option is referred to as the High Flow coil configuration.



Model Number ¹	Weights (kg)			Fans		Spray Pump	Coil Volume (liters)	Dimensions ³			
	Shipping	Operating	Heaviest Section ²	kW	m ³ /s	kW		Lower L (mm)	Upper U (mm)	Coil A (mm)	Height H (mm)
ESW4 14-52K22-LP	15760	22625	8725	15	71,6	(2) 7.5	1360	2772	3800	305	6572
ESW4 14-52L22-LP	15780	22650	8725	18,5	76,8	(2) 7.5	1360	2772	3800	305	6572
ESW4 14-52M22-LP	15790	22655	8725	22	81,4	(2) 7.5	1360	2772	3800	305	6572
ESW4 14-52N22-LP	15860	22725	8725	30	89,1	(2) 7.5	1360	2772	3800	305	6572
ESW4 14-52O22-LP	16015	22885	8725	37	95,7	(2) 7.5	1360	2772	3800	305	6572
ESW4 14-52P22-LP	16095	22960	8725	45	101,0	(2) 7.5	1360	2772	3800	305	6572
ESW4 14-52Q22-LP	16200	23070	8725	55	108,1	(2) 7.5	1360	2772	3800	305	6572
ESW4 14-52R22-LP	16400	23270	8725	75	118,2	(2) 7.5	1360	2772	3800	305	6572
ESW4 14-53K22-LP	17570	25060	10540	15	71,6	(2) 7.5	1990	2962	3800	495	6763
ESW4 14-53L22-LP	17595	25085	10540	18,5	76,8	(2) 7.5	1990	2962	3800	495	6763
ESW4 14-53M22-LP	17605	25095	10540	22	81,4	(2) 7.5	1990	2962	3800	495	6763
ESW4 14-53N22-LP	17670	25160	10540	30	89,1	(2) 7.5	1990	2962	3800	495	6763
ESW4 14-53O22-LP	17830	25320	10540	37	95,7	(2) 7.5	1990	2962	3800	495	6763
ESW4 14-53P22-LP	17910	25395	10540	45	101,0	(2) 7.5	1990	2962	3800	495	6763
ESW4 14-53Q22-LP	18015	25505	10540	55	108,1	(2) 7.5	1990	2962	3800	495	6763
ESW4 14-53R22-LP	18215	25705	10540	75	118,2	(2) 7.5	1990	2962	3800	495	6763
ESW4 14-54K22-LP	19230	27345	12195	15	71,6	(2) 7.5	2610	3153	3800	686	6953
ESW4 14-54L22-LP	19250	27365	12195	18,5	76,8	(2) 7.5	2610	3153	3800	686	6953
ESW4 14-54M22-LP	19260	27375	12195	22	81,4	(2) 7.5	2610	3153	3800	686	6953
ESW4 14-54N22-LP	19330	27440	12195	30	89,1	(2) 7.5	2610	3153	3800	686	6953
ESW4 14-54O22-LP	19485	27600	12195	37	95,7	(2) 7.5	2610	3153	3800	686	6953
ESW4 14-54P22-LP	19565	27680	12195	45	101,0	(2) 7.5	2610	3153	3800	686	6953
ESW4 14-54Q22-LP	19670	27785	12195	55	108,1	(2) 7.5	2610	3153	3800	686	6953
ESW4 14-54R22-LP	19870	27985	12195	75	118,2	(2) 7.5	2610	3153	3800	686	6953
ESW4 14-55K22-LP	20940	29680	13905	15	71,6	(2) 7.5	3240	3343	3800	876	7144
ESW4 14-55L22-LP	20960	29700	13905	18,5	76,8	(2) 7.5	3240	3343	3800	876	7144
ESW4 14-55M22-LP	20970	29710	13905	22	81,4	(2) 7.5	3240	3343	3800	876	7144
ESW4 14-55N22-LP	21040	29780	13905	30	89,1	(2) 7.5	3240	3343	3800	876	7144
ESW4 14-55O22-LP	21195	29935	13905	37	95,7	(2) 7.5	3240	3343	3800	876	7144
ESW4 14-55P22-LP	21275	30015	13905	45	101,0	(2) 7.5	3240	3343	3800	876	7144
ESW4 14-55Q22-LP	21380	30125	13905	55	108,1	(2) 7.5	3240	3343	3800	876	7144
ESW4 14-55R22-LP	21580	30325	13905	75	118,2	(2) 7.5	3240	3343	3800	876	7144
ESW4 14-56K22-LP	22610	31980	15580	15	71,6	(2) 7.5	3860	3356	3800	1067	7156
ESW4 14-56L22-LP	22635	32000	15580	18,5	76,8	(2) 7.5	3860	3356	3800	1067	7156
ESW4 14-56M22-LP	22645	32010	15580	22	81,4	(2) 7.5	3860	3356	3800	1067	7156
ESW4 14-56N22-LP	22710	32080	15580	30	89,1	(2) 7.5	3860	3356	3800	1067	7156
ESW4 14-56O22-LP	22870	32235	15580	37	95,7	(2) 7.5	3860	3356	3800	1067	7156
ESW4 14-56P22-LP	22945	32315	15580	45	101,0	(2) 7.5	3860	3356	3800	1067	7156
ESW4 14-56Q22-LP	23055	32425	15580	55	108,1	(2) 7.5	3860	3356	3800	1067	7156
ESW4 14-56R22-LP	23255	32620	15580	75	118,2	(2) 7.5	3860	3356	3800	1067	7156

¹ Model numbers will end in "-Z" for units with Series Flow piping configuration. Series Flow will require crossover piping. Model numbers will include "C" for units with stainless steel coil(s), "R" for units with low sound fan(s).

² Heaviest section is the lower section.

³ Unit dimensions may vary slightly from catalog. See factory certified prints for exact dimensions. Coil connections are 101 mm bevel for weld (BFW). Other connection types such as grooved for mechanical coupling or flanged are also available as options.



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-  World Headquarters/
Research and
Development Center
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EVAPCO, Inc. — World Headquarters & Research / Development Center

P.O. Box 1300 • Westminster, MD 21158 USA
410-756-2600 p • marketing@evapco.com • evapco.com

North America

EVAPCO, Inc.
World Headquarters
P.O. Box 1300
Westminster, MD 21158 USA
Ph: 410-756-2600 - Fx: 410-756-6450
marketing@evapco.com

EVAPCO East
5151 Allendale Lane
Taneytown, MD 21787 USA
Ph: 410-756-2600 - Fx: 410-756-6450
marketing@evapco.com

EVAPCO Midwest
1723 York Road
Greenup, IL 62428 USA
Ph: 217-923-3431 - Fx: 217-923-3300
evapcomw@evapcomw.com

EVAPCO West
1900 West Almond Avenue
Madera, CA 93637 USA
Ph: 559-673-2207 - Fx: 559-673-2378
contact@evapcowest.com

EVAPCO Iowa
925 Quality Drive
Lake View, IA 51450 USA
Ph: 712-657-3223 - Fx: 712-657-3226

EVAPCO Iowa Sales & Engineering
215 1st Street, NE
P.O. Box 88
Medford, MN 55049 USA
Ph: 507-446-8005 - Fx: 507-446-8239
evapcomn@evapcomn.com

EVAPCO Newton
701 East Jourdan Street
Newton, IL 62448 USA
Ph: 618-783-3433 - Fx: 618-783-3499
evapcomw@evapcomw.com

EVAPCOLD
521 Evapco Drive
Greenup, IL 62428 USA
Ph: 217-923-3431
evapcomw@evapcomw.com

EVAPCO-Dry Cooling, Inc.
981 US Highway 22 West
Bridgewater, NJ 08807 USA
Ph: 1-908-379-2665
info@evapco-blct.com

Refrigeration Valves & Systems Corporation
A wholly owned subsidiary of EVAPCO, Inc.
1520 Crosswind Dr.
Bryan, TX 77808 USA
Ph: 979-778-0095 - Fx: 979-778-0030
rvs@rvscorp.com

Evapco Northwest
5775 S.W. Jean Road, Suite 104
Lake Oswego, OR 97035 USA
Ph: 503-639-2137 - Fx: 503-639-1800

EvapTech, Inc.
A wholly owned subsidiary of EVAPCO, Inc.
8331 Nieman Road
Lenexa, KS 66214 USA
Ph: 913-322-5165 - Fx: 913-322-5166
marketing@evaptechtinc.com

Tower Components, Inc.
A wholly owned subsidiary of EVAPCO, Inc.
5960 US HWY 64E
Ramseur, NC 27316
Ph: 336-824-2102 - Fx: 336-824-2190
mail@towercomponentsinc.com

South America

EVAPCO Brasil
Equipamentos Industriais Ltda
Al. Vênus, 151 - CEP: 13347-659
Indaiatuba - São Paulo - Brasil
Ph: (55+11) 5681-2000 p
vendas@evapco.com.br

Fan Technology Resources
Cruz das Almas - Indaiatuba
São Paulo, Brasil 13308-200
Ph: 55 (11) 4025-1670 p
fantr@fantr.com

Europe

EVAPCO Europe BVBA
European Headquarters
Heersterveldweg 19, Industrieterrein Oost
3700 Tongeren, Belgium
Ph: (32) 12-395029 - Fx: (32) 12-238527
evapco.europe@evapco.be

EVAPCO Europe, S.r.l.
Via Ciro Menotti 10
I-20017 Passirana di Rho, Milan, Italy
Ph: (39) 02-939-9041 - Fx: (39) 02-935-00840
evapcoeuropa@evapco.it

EVAPCO Europe, S.r.l.
Via Dosso 2 - 23020 Piateda Sondrio, Italy

EVAPCO Europe, GmbH
Insterburger Straße, 18
D-40670 Meerbusch, Germany
Ph: (49) 2159-69560 - Fx: (49) 2159-695611
info@evapco.de

EVAPCO Middle East DMCC
Reef Tower, 29th Level
Cluster O, Jumeirah Lake Towers
P.O. Box 5003310
Dubai, U.A.E.
Ph: (971) 4-448 7242 - Fx: (971) 4-448 7112
info@evapco.ae

EVAPCO Air Solutions a/s
A wholly owned subsidiary of EVAPCO, Inc.
Knøsgårdvej 115, 9440 Aabybro, Denmark
Ph: (45) 9824-4999 - Fx: (45) 9824-4990
flexcoil@flexcoil.dk

EVAPCO S.A. (Pty.) Ltd.
A licensed manufacturer of Evapco, Inc.
18 Quality Rd, Isando 1600, Rep. of S. Africa
Ph: (27) 11 392-6630 - Fx: (27) 11-392-6615
evapco@evapco.co.za

Evap Egypt Engineering Industries Co.
A licensed manufacturer of Evapco, Inc.
5 Al Nasr Road St., Nasr City, Cairo, Egypt
Ph: (20) 2-24022866 / (20) 2-24044997/8
Ph: (20) 2-404-4667 / Mob: (20) 12-3917979
primacool@link.net / shady@primacool.net

Asia/Pacific

EVAPCO China
Asia/Pacific Headquarters
1159 Luoning Rd, Baoshan Industrial Zone
Shanghai, P.R. China, Postal Code: 200949
Ph: (86) 21-6687-7786 - Fx: (86) 21-6687-7008
marketing@evapcochina.com

Evapco (Shanghai) Refrigeration Equipment Co., Ltd.
1159 Luoning Rd., Baoshan Industrial Zone
Shanghai, P.R. China, Postal Code: 200949
Ph: (86) 21-6687-7786 - Fx: (86) 21-6687-7008
evapcobj@evapcochina.com

Beijing EVAPCO Refrigeration Equipment Co., Ltd.
Yan Qi Industrial Development District
Huai Rou County
Beijing, P.R. China, Postal Code: 101407
Ph: (86) 10 6166-7238 - Fx: (86) 10 6166-7395
evapcobj@evapcochina.com

EVAPCO Australia Pty Ltd.
34-42 Melbourne Road - P.O. Box 436
Riverstone, N.S.W. Australia 2765
Ph: (61) 29 627-3322 - Fx: (61) 29 627-1715
sales@evapco.com.au

EvapTech Composites Sdn. Bhd
No. 70 (Lot 1289) Jalan Industri 2/3
Rawang Integrated Industrial Park
Rawang, Selangor, 48000 Malaysia
Ph: 60 3 6092-2209 - Fx: 60 3 6092-2210

EvapTech Asia Pacific Sdn. Bhd
A wholly owned subsidiary of EvapTech, Inc.
IOI Business Park, 2/F Unit 20
Persiaran Puchong Jaya Selatan
Bandar Puchong Jaya,
47170 Puchong, Selangor, Malaysia
Ph: +(60-3) 8070 7255 - Fx: +(60-3) 8070 5731
marketing-ap@evaptech.com



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