



LSTE/LPT

FORCED DRAFT COOLING TOWERS

NEW
4' WIDE
BOX SIZES
IN THE LSTE!



LSTE

LPT



**DELIVERING QUALITY,
FOCUSED ON PERFECTION**



† Mark owned by the Cooling Technology Institute



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

- Industrial Refrigeration
- Commercial HVAC
- Industrial Process
- Power

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

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

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

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



EVAPCO products are manufactured in 17 locations in 8 countries around the world and supplied through a sales network consisting of over 170 offices.

LSTE/LPT

The new & improved EVAPCO Model LSTE and LPT forced draft centrifugal cooling towers feature IBC Compliance in addition to CTI Certification. These features reinforce EVAPCO's position as the leading manufacturer of forced draft evaporative cooling equipment. All features shown are available on all models.

Easy Field Assembly

- Ensures easy assembly and fewer fasteners.
- Incorporates self-guiding channels to guide the casing section into position improving the quality of the field seam.



Stainless Steel Strainer

- Resists corrosion better than other materials.



Clean Pan Design

- Sloped design allows water to drain completely from cold water basin.
- Easier removal of dirt and debris.

Totally Enclosed Fan Motors & Superior Drive System

- Assures long life.
- Located in dry, incoming air-stream, allowing normal maintenance to be done from the outside of the unit.
- If required, motor can be easily removed.
- Motors are now located outboard on multi-motor units for even easier drive system access.
- 5 year motor and drive warranty is standard
- Premium efficient, inverter-ready motors standard



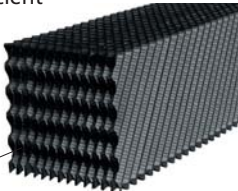
Design and Construction Features

Drift Eliminators Located in Casing

- Eliminators now integrated within casing section for easy mounting of ductwork, discharge hood, and attenuation.

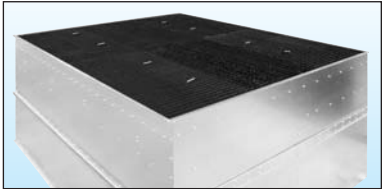
Exclusive EVAPAK® fill

- Provides the most efficient thermal performance per plan area.
- Suitable for use as a working platform.



PVC Spray Distribution Header

- Nozzles are threaded into the header to ensure proper orientation.
- Fixed position nozzles require little maintenance.
- Large orifice nozzle with integral sludge ring to prevent clogging.
- Threaded end-caps on distribution piping for ease of cleaning.



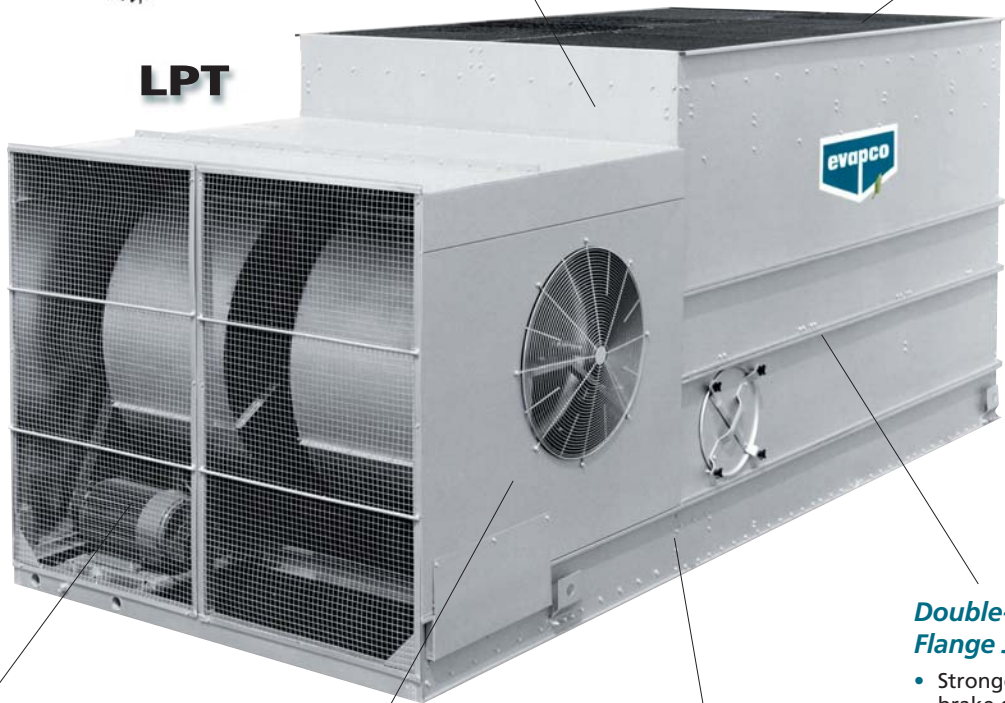
High Efficiency Drift Eliminators

- Advanced design limits maximum drift rate to 0.001% of the recirculated water rate.
- Corrosion resistant PVC for long life.

LPT



LSTE



G-235 Heavy Mill Galvanized Steel Construction

(Stainless steel available as an affordable option)

Standard Stainless Steel Cold Water Basin

- Eliminates the need for unreliable epoxy coatings.

Double-Brake Flange Joints

- Stronger than single-brake designs by others.
- Increases field rigging joint integrity.
- Greater structural integrity.

Easy to Service Motor & Drive System

- Belt tensioning and bearing lubrication can be performed from outside the unit.
- Locking mechanism can also be used as a wrench to adjust the belt tension (LPT only).
- Motor is fully accessible by removing one inlet screen.
- Split fan housings allow removal of all mechanical equipment through the end of the unit (LPT only).



IBC Compliant Construction

- LSTE and LPT are designed to withstand 1.0 g seismic load and 145 psf wind load.
- Upgraded unit construction built to withstand 5.12 g seismic load and 145 psf wind load.



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LSTE/LPT

IBC COMPLIANCE

In its continuing commitment to be the leaders in evaporative cooling equipment design and services, EVAPCO LSTE and LPT Cooling Towers are now **Independently Certified** to withstand Seismic and Wind Loads in **ALL Geographic Locations and Installations** in accordance with IBC 2009.

What is IBC?

International Building Code

The International Building Code (IBC) is a comprehensive set of regulations addressing both the structural design and the installation requirements for building systems – including HVAC and industrial refrigeration equipment. The IBC is intended to replace BOCA's The National Building Code, ICBO's Uniform Building Code and SBCCI's Standard Building Code.

Compared to previous building codes that considered only the building structure and component anchorage, the requirements contained within the IBC address anchorage, structural integrity, and the operational capability of a component following either a seismic or wind load event. **Simply stated, the IBC code provisions require that evaporative cooling equipment, and all other components permanently installed on a structure, must be designed to meet the same seismic or wind load forces as the building to which they are attached.**

How Does IBC 2009 Apply to Cooling Towers?

Based on the project zip code and site design factors, calculations are made to determine the equivalent seismic "g force" and wind load (in pounds per square foot – psf) on the unit. The cooling tower must be designed to withstand the greater of either the seismic or wind load.

The New LSTE and LPT are offered with a choice of TWO structural design packages:

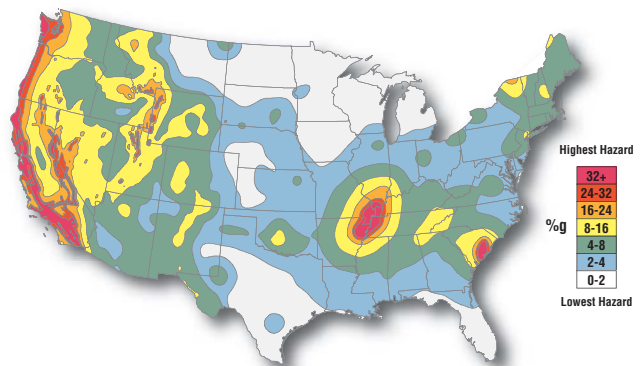
- **Standard Structural Design** – For projects with $\leq 1.0g$ seismic or 145 psf wind loads
- **Upgraded Structural Design** – Required for projects with $>1.0 g$ seismic or 145 psf wind loads

All locations with design criteria resulting in a seismic design force of up to 1.0g or a wind load of 145 psf or below will be provided with the standard LSTE and LPT structural design. An upgraded structural design is available for installations with design criteria resulting in "g forces" greater than 1.0g. The highest "g force" location in North America is 5.12g. The highest wind load shown on the maps is 170 mph, which is approxi-

mately equal to 145 psf velocity pressure. **Therefore, the upgraded structural design package option for the New LSTE and LPT are designed for 5.12 g and 145 psf making it applicable to ALL building locations in North America.**

Seismic Design

The chart shown below, from the US Geological Survey Website <http://www.usgs.gov/> shows the potential seismic activity in the United States. Buildings constructed in the red, orange and yellow areas of the map are most likely to require the upgraded LSTE and LPT construction design based on the site seismic design factors. Critical use facilities, such as hospitals, are also more likely to require the upgraded design.



Map courtesy US Geological Survey website

The project architect or civil engineer is responsible for determining the seismic design factors to be used for the building design. A mechanical consulting engineer and/or design build contractor will then apply these factors to a series of charts and graphs to determine the appropriate seismic design factors based on the location of the installation and ultimately the "importance" of the facility.

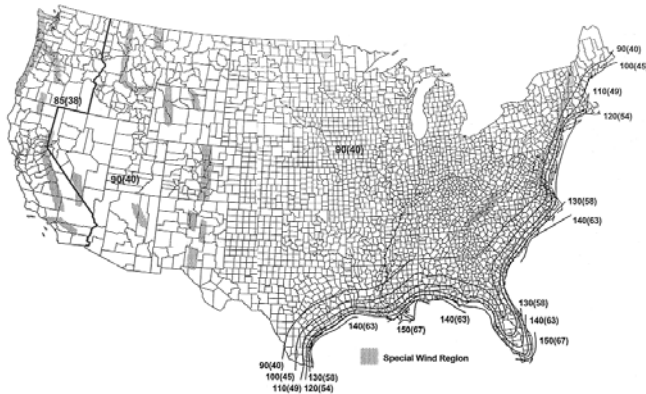
LSTE/LPT

IBC COMPLIANCE

Wind Design

The IBC 2009 code book includes a map of basic wind speed (3-second gust) by contour lines. However, local regulations may be more stringent than these published speeds.

Whichever design force - seismic or wind - is more severe for the building, governs the design of the building and all attached equipment.



Wind Load Map Courtesy IBC 2009 Text - See full sized map for location specific values

Design Implementation

EVAPCO applies the seismic design and wind load information provided for the project to determine the equipment design necessary to meet IBC requirements. This process ensures that the mechanical equipment and its components are compliant per the provisions of the IBC as given in the plans and specifications for the project.

Independent Certification

Although the IBC references and is based on the structural building code ASCE 7, many chapters and paragraphs of ASCE 7 are superseded by the IBC, independent certification and methods of analysis are such paragraphs. Per the most recent edition of the code, the EVAPCO compliance process included an exhaustive analysis by an independent approval agency. As required by the International Building Code, EVAPCO supplies a certificate of compliance as part of its submittal documents. The certificate of compliance demonstrates that the equipment has been independently tested and analyzed in accordance with the IBC seismic and wind load requirements. Evapco has worked closely with an independent approval agency to complete the equipment testing and analysis.



If the seismic “g force” or wind load psf requirements for the project site are known, EVAPCO’s online equipment selection software, *evapSelect*, will allow you to choose the required structural design package – either standard construction or upgraded construction.

If the project requirements are unknown, the following calculations must be completed.

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

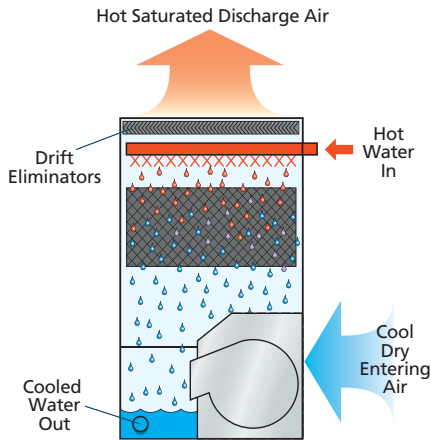
When using the EVAPCO selection software to make a selection, these calculations are already incorporated into the selection process. Simply enter the required factors and the Seismic Design Force and Wind Load will be calculated automatically!

LSTE/LPT

DESIGN FEATURES

Principle of Operation

Warm water from the heat source is pumped to the water distribution system at the top of the tower. The water is then distributed over the wet deck fill by means of large orifice nozzles. Simultaneously, air is forced-up through the fill section via centrifugal fans. A small portion of the water is evaporated, which removes the heat from the remaining water. The warm moist air is forced to the top of the cooling tower and discharged to the atmosphere. The cooled water then drains to the basin at the bottom of the tower where it is returned to the heat source.



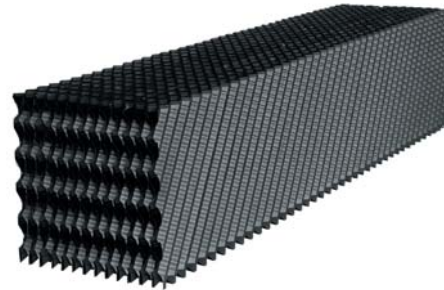
EVAPAK® Cooling Tower Fill

The patented* EVAPAK® fill design used in the forced draft cooling tower line is the culmination of thousands of hours of research and testing conducted by EVAPCO's research engineers. This program has produced a cooling tower fill with superior heat transfer, reduced channeling in flow passages, improved drip enhancement for lower air side pressure drop and exceptional structural strength.

The fill is specially designed to induce highly turbulent mixing of the air and water for heat transfer. This is made possible by forming the raw fill into corrugated panels on which there are small ridges. These ridges serve many purposes, one of which is to create agitation in both the water and the air in the tower. This increase in turbulence prevents channeling of the water and promotes better mixing of air and water, therefore improving heat transfer. In addition, special drainage tips allow high water loadings without excessive pressure drop.

The fill is constructed of inert polyvinyl chloride, (PVC). It will not rot or decay and is formulated to withstand

water temperatures of 130°F (55°C). The fill also has excellent fire resistant qualities providing a flame spread rating of 5 per ASTM-E84-81a. (The flame spread rating scale ranges from 0 for non-combustible to 100 for highly combustible). Because of the unique way in which the crossfluted sheets are bonded together, the structural integrity of the fill is greatly enhanced, making the fill usable as a working platform.



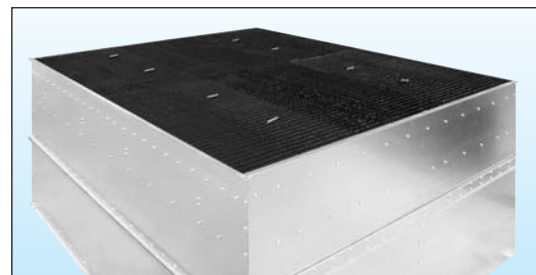
EVAPAK® FILL

A high temperature fill is available for water temperatures **exceeding 130°F**. Consult your EVAPCO representative for further details.

Patented High Efficiency Drift Eliminators

An extremely efficient drift eliminator system is standard on the LSTE and LPT Cooling Tower. The system removes entrained water droplets from the air stream to limit the drift rate to less than 0.001% of the circulating water rate. The LSTE and LPT can be located in areas where minimum water carryover is critical, such as parking lots.

The drift eliminators are constructed of an inert polyvinyl chloride (PVC) plastic material which effectively eliminates corrosion of these vital components. They are assembled in sections to facilitate easy removal for inspection of the water distribution system.



ELIMINATOR

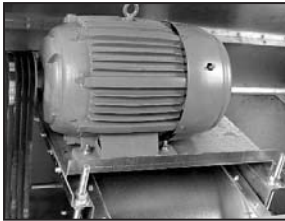
U.S. Patent No. 6,315,804

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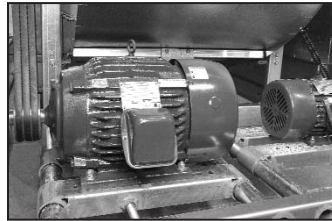
DESIGN FEATURES

Fan Motor Mount

TEFC fan motors are mounted in a convenient open area for ease of belt tensioning, motor lubrication and electrical connection. The motor base is designed for easy adjustment and to be locked into position to maintain proper belt tension.



Example LSTE Fan Motor Mount



*LPT Fan Motor Mount
(shown with optional pony motor)*

Fan Access-Split Housing

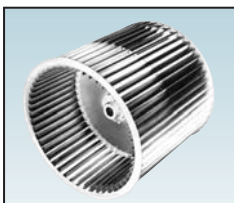


Another unique feature of the LPT Cooling Towers is the split fan housing. The split fan housing on the LPT allows quick removal of the fans from the front end of the unit. This feature allows fan removal when units are placed side by side where space is minimal.

Mechanical Drive System Access

The LSTE and LPT mechanical drive systems are easy to maintain. Bearing lubrication and belt adjustment can be performed from outside the unit. There is no need to remove fan screens to maintain important drive components. In addition, the locking mechanism used to maintain belt tension can also work as a wrench to adjust the belt.

Centrifugal Fan Assembly



Fans on LSTE and LPT Cooling Towers are of the forward curved centrifugal design with hot-dip galvanized steel housing.

Fans on LSTE and LPT Cooling Towers are of the forward curved centrifugal design with hot-dip galvanized steel construction. All fans are statically and dynamically balanced and are mounted in a hot-dip galvanized steel housing.

Capacity Control

All LSTE and LPT models come standard with premium efficient, inverter-ready 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 motor input electrical signal. When connected to a building automation system a VFD can receive signals varying fan speeds to meet demand loads. This popular method of capacity control can yield significant energy savings.

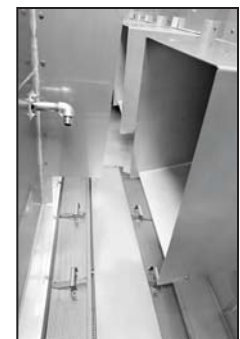
Evapco offers two-speed fan motors as an option for alternative capacity control. In periods of lightened loads or reduced wet bulb temperatures the fans can operate at low speed providing about 60% of full speed capacity yet consuming only about 15% of full speed power. These motors do not require the use of VFD systems however they can only operate at two speeds: full or low.

Pony motors are available as another capacity control method. Pony motors are smaller fan motors for use in times of reduced loading. The pony motor is typically 1/4 of the Hp of the primary motor and can significantly reduce energy requirements.

Basin Access

The basin/fan section of a centrifugal fan unit is designed for accessibility and ease of maintenance.

Large circular access doors are provided to allow entry into the basin. All float valve and strainer assemblies are located near the door for easy adjustment and cleaning. The sump is designed to catch the dirt accumulated. This can be flushed out simply with a hose. The stainless steel strainers may be easily removed for periodic cleaning.



Stainless Steel Strainers

One other component of evaporative cooling equipment which is subject to excessive wear is the suction strainer. EVAPCO provides a Type 304 stainless steel strainer on all units (except remote sump applications) as standard. Strainers are positioned around a large anti-vortex hood in easily handled sections.



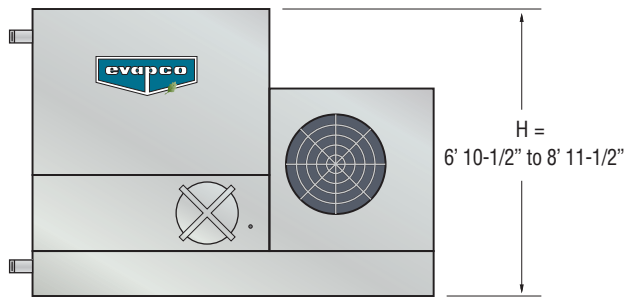
LPT

SPECIFIC DESIGN FEATURES

LPT Reduced Height and Maintenance Accessibility

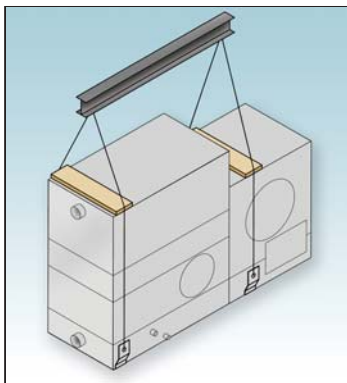
The LPT has been designed to satisfy installation requirements where height limits must be observed. The lower profile design of the LPT does not, however, sacrifice maintenance accessibility for reduced height. Its unique casing design allows the water distribution system, cold water basin, fan section and other unit components to be easily maintained.

Small, light-weight sections of the drift eliminators can be easily removed to access the water distribution system. A large circular access door is located on the side of the cold water basin to allow adjustment of the float assembly, removal of the stainless steel strainers and cleaning of the basin. The fan motor and drive system are located at one end of the unit and are completely accessible by removing the inlet screens. Routine bearing lubrication and belt tensioning can be performed from the exterior of the unit without removing the inlet screens.



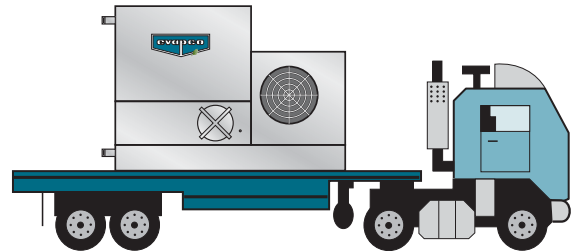
Low Installed Costs

The compact, unitary design of the LPT cooling towers allows it to be shipped completely assembled. This results in lower transportation costs and no assembly requirements at the job site. Note: Options such as sound attenuation and discharge hoods will require additional lifts and some minor assembly.



Transport of a Pre-Assembled Unit

Since the LPT ships fully assembled, it is ideal for truck-mounted applications, for remote sites or temporary installations.



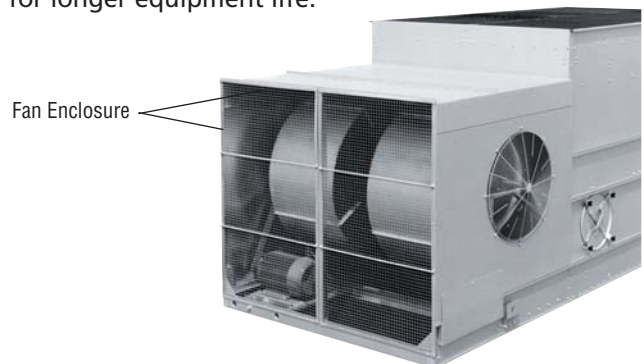
Stainless Steel Cold Water Basin-Standard

The LPT is standard with a stainless steel cold water basin. Optional upgrades to stainless steel water touch basins, stainless steel water touch units and all stainless steel construction are also available on the LPT.



Integral Fan Enclosure for Lower Sound

The LPT comes standard with an integral fan enclosure that reduces sound levels by 2 dB. This 3-sided enclosure also protects the fan and drive system for longer equipment life.



LSTE/LPT

APPLICATION

Application Versatility

Centrifugal units are recommended for a wide range of installations. They are quiet, can easily be hidden, and the increase in fan HP over propeller fan units is generally not significant in the small size range. They are also excellent for installations where sound is sensitive, such as residential neighborhoods, and when the unit must handle external static pressure.



LSTE Unit



LPT Unit

Very Quiet Operation

Centrifugal fan units operate at low sound levels which make this design preferred for installations with external static pressure where noise is a concern. Additionally, since the sound from the fans is directional, single sided air entry models can be turned away from critical areas avoiding a sound problem. When even quieter operation is necessary, centrifugal fan models can be equipped with optional sound attenuation packages. See the Low Sound Applications section of this catalog or consult the factory for details.

In addition, the LPT features a specially engineered fan enclosure and drive system that is designed to offer very quiet operation without the high cost of external attenuation packages. The LPT fan system was developed through hundreds of hours of laboratory tests resulting in the lowest standardized sound levels available in the industry. In fact, the sound level of the LPT on average is 2 dBA quieter than competitors' similar models.

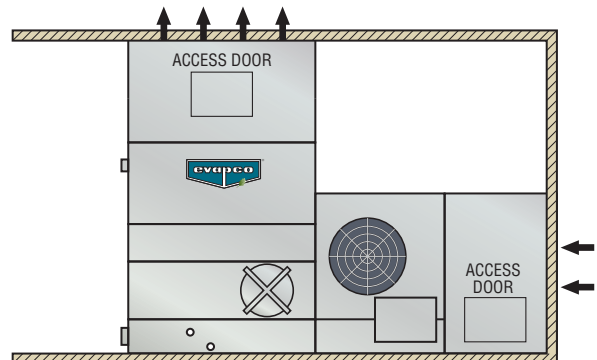
Indoor Installation

All LSTE and LPT Cooling Towers can be installed indoors where they normally require ductwork to and from the unit. The design of the ductwork should be symmetrical to provide even air distribution across

both intake and discharge openings. Guidelines for Ducted Applications:

- 1) The static pressure loss imposed by the ductwork must not exceed 1/2". The fan motor size must be increased for ESP up to 1/2".
- 2) For ducted installations, the solid bottom panel option must be ordered. On the LPT blank off plates will also be provided in lieu of the side air inlet screens with this option.
- 3) NOTE: Access Doors must be located in the ductwork for service to the fan drive components and water distribution system.

Drawings are available showing recommended ductwork connections. See EVAPCO's Layout Guidelines for additional information.





LSTE/LPT

PRODUCT APPLICATIONS

Design

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

Piping

Cooling tower piping should be designed and installed in accordance with generally accepted engineering practices. All piping should be anchored by properly designed hangars and supports with allowance made for possible expansion and contraction. No external loads should be placed upon cooling tower connections, nor should any of the piping supports be anchored to the unit framework.

Recirculating Water Quality

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

Air Circulation

In reviewing the system design and unit location, it is important that enough fresh air is provided to enable proper unit performance. The best location is on a unobstructed roof top or at ground level away from walls and other barriers. Care must be taken when locating towers in wells or enclosures or next to high walls. The potential for recirculation of the hot, moist discharge air back into the fan intake exists. Recirculation raises the wetbulb temperature of the entering air, causing the leaving water temperature to rise above the design. For these cases, a discharge hood or ductwork should be provided to raise the overall unit height even with the adjacent wall, thereby reducing the chance of recirculation. For additional information, see the EVAPCO Equipment Layout Manual. Engineering Assistance is also available from the factory to identify potential recirculation problems and recommend solutions.

Bleed off

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

Water Treatment

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

Control of Biological Contaminants

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

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

FREEZE PROTECTION AND HEAT LOSS

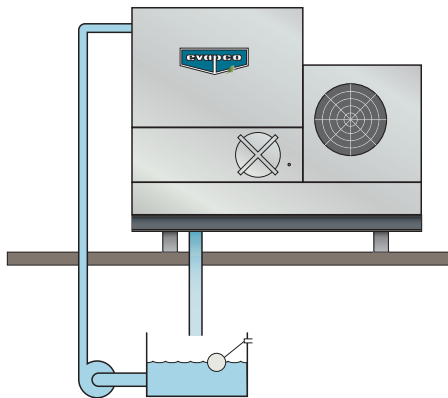
LSTE/LPT

Pan Freeze Protection

Whenever a cooling tower is idle during subfreezing weather, the water in the sump must be protected from freezing and damaging the pan.

Remote Sump Configuration

The surest way to protect the recirculating water system from freezing is with a remote sump. The remote sump should be located inside the building and below the unit. When a remote sump arrangement is selected, the spray pump is provided by others and installed at the remote sump tower. All water in the cooling towers basin should drain to the remote sump when the spray pump cycles off. When a remote sump is not possible, a supplementary means of heating the pan water must be provided.



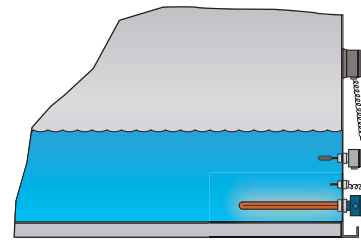
Electric Water Level Control

EVAPCO LPT and LSTE Cooling Towers are available with an optional electric water level control system in place of the standard mechanical make-up valve and float assembly. This package provides accurate control of the pan water level and does not require field adjustment, even under widely variable operating conditions.

The controller was designed by EVAPCO and consists of multiple heavy duty stainless steel electrodes. These electrodes are mounted external to the unit in a vertical standpipe. For winter operation, the standpipe must wrapped with electric heating cable and insulated to protect it from freezing. The weather protected slow closing solenoid valve for the makeup water connection is factory supplied and is ready for piping to a water supply with a pressure between 5 psi (minimum) and 125 psi (maximum).

Basin Heater Package

If a remote sump configuration is not practical, electric basin heater packages are available to keep the pan water from freezing when the unit cycles off. Water lines to and from the unit, spray pump and related piping should be heat traced and insulated up to the overflow level to protect from freezing.



LSTE Basin Heater Sizing

| Unit Footprint | kW (0°F) | kW (-20°F) | kW (-40°F) |
|----------------|----------|------------|------------|
| 4' x 6' | (1) 2 | (1) 3 | (1) 4 |
| 4' x 9' | (1) 3 | (1) 4 | (1) 5 |
| 4' x 12' | (1) 3 | (1) 5 | (1) 7 |
| 4' x 18' | (1) 5 | (1) 7 | (1) 9 |
| 5' x 12' | (1) 4 | (1) 6 | (1) 8 |
| 5' x 18' | (2) 3 | (2) 4 | (1) 12 |
| 8P' x 12' | (1) 5 | (1) 8 | (1) 10 |
| 8P' x 18' | (2) 4 | (2) 6 | (2) 7 |
| 8P' x 24' | (2) 5 | (2) 7 | (2) 10 |
| 8P' x 36' | (2) 7 | (2) 12 | (2) 15 |
| 10' x 12' | (1) 7 | (1) 10 | (1) 15 |
| 10' x 18' | (2) 5 | (2) 7 | (2) 10 |
| 10' x 24' | (2) 7 | (2) 10 | (2) 15 |
| 10' x 36' | (2) 10 | (4) 7 | (4) 9 |

LPT Basin Heater Sizing

| Unit Footprint | kW (0°F) | kW (-20°F) | kW (-40°F) |
|----------------|----------|------------|------------|
| 3' x 6' | (1) 2 | (1) 3 | (1) 4 |
| 5' x 6' | (1) 3 | (1) 5 | (1) 6 |
| 5' x 9' | (1) 4 | (1) 6 | (1) 8 |
| 5' x 12' | (1) 6 | (1) 8 | (1) 12 |
| 8' x 9' | (1) 7 | (1) 9 | (1) 12 |
| 8' x 12' | (1) 9 | (1) 12 | (1) 16 |

Hot Water Coils

Pan coils are available as an alternate to using electric basin heaters or a remote sump. Constructed of galvanized pipe and installed in the cooling tower basin, they are supplied without controls and are ready for piping to an external hot water source. Pan water heater controls should be interlocked with the water circulating pump to prevent their operation when the pump is energized.

LSTE/LPT

NON-CHEMICAL WATER TREATMENT SYSTEM



The LSTE and LPT are available with EVAPCO's optional **Pulse~Pure**® non-chemical water treatment system.

The **Pulse~Pure**® Water Treatment System utilizes pulsed-power technology to provide CHEMICAL FREE Water Treatment and is an environmentally responsible alternative for treating water in evaporative cooled equipment. It does not release harmful by-products to the environment and eliminates costly chemicals completely from cooling tower drift and blowdown. The **Pulse~Pure**® system delivers short, high-frequency bursts of low energy electromagnetic fields to the recirculating water in the LSTE and LPT and will:

- Control Bacteria to Levels Well Below Most Chemical Water Treatment Programs.
- Control the Formation of Mineral Scale on Heat-Exchange Surfaces.
- Save Water by Operating at Higher Cycles of Concentration.
- Yield Corrosion Rates Equivalent to Chemical Water Treatment.

Benefits of offering EVAPCO's **Pulse~Pure**® Water Treatment System on the new LSTE/LPT include:

- Integral Cutting Edge Conductivity Control and Blowdown Packages that are contained in a single feeder panel:

Conductivity Control Package – Measures Conductivity Utilizing a Non-Fouling Torodial Probe and Features:

- One power connection of 120 volt or 460 volt is all that is required.
- USB port for downloadable 60 day audit trail of system operation.
- Self draining conductivity loop.

Motorized Blowdown Valve – Standard for the most reliable operation in bleed control. Three-way valve operation provides good bleed flow without a standing column of water.

Because ongoing water treatment service is an absolute requirement for any evaporative cooled system, each purchase of a **Pulse~Pure**® Water Treatment System

includes, as standard, a 1 year water treatment service and monitoring contract provided by your EVAPCO Representative

EVAPCO's **Pulse~Pure**® system offers LSTE/LPT owners a single-source of responsibility for equipment, water treatment and service.



U.S. Patent No. 7,704,364

LSTE/LPT

STEEL SUPPORT

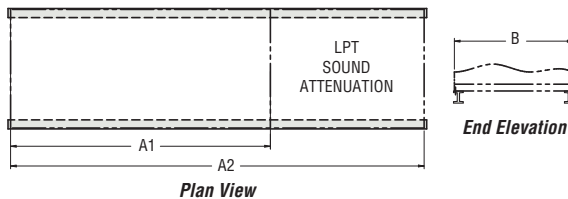
Steel Support

The recommended support for EVAPCO LSTE/LPT is structural "I" beams located under the outer flanges and running the entire length of the unit. Mounting holes 3/4" in diameter are located in the bottom channels of the pan section to provide for bolting to the structural steel. (Refer to certified drawings from the factory for bolt hole locations.)

Beams should be level to within 1/360 of unit length, not to exceed 1/2" before setting the unit in place. Do not level the unit by shimming between it and the "I" beams as this will not provide proper longitudinal support.

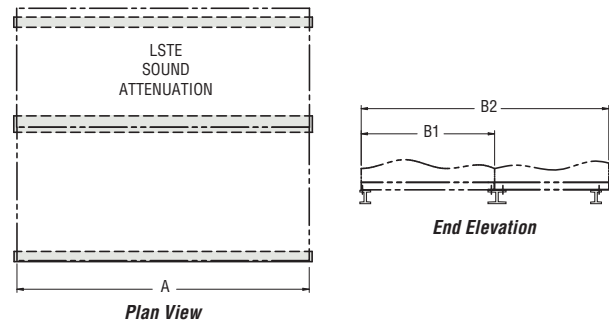
LPT Dimensions

| Fill Section Footprint | A1 (Unit Only) | A2 (Unit with Intake Atten.) | B |
|------------------------|----------------|------------------------------|-----------|
| 3' x 6' | 10' 1-7/8" | 13' 9-5/8" | 3' 4-1/2" |
| 5' x 6' | 12' 2-7/8" | 15' 10-5/8" | 5' 5/8" |
| 5' x 9' | 15' 2-1/4" | 18' 10" | 5' 5/8" |
| 5' x 12' | 18' 2-5/8" | 21' 10-3/8" | 5' 5/8" |
| 8' x 9' | 15' 2-1/4" | 18' 10" | 7' 10" |
| 8' x 12' | 18' 2-5/8" | 21' 10-3/8" | 7' 10" |



LSTE Dimensions

| Unit Footprint | B1 (Unit Only) | B2 (Unit with Intake Atten.) | A |
|----------------|----------------|------------------------------|-------------|
| 4' x 6' | 4' 5/8" | 9' 11-1/2" | 5' 11-7/8" |
| 4' x 9' | 4' 5/8" | 9' 11-1/2" | 8' 11-1/4" |
| 4' x 12' | 4' 5/8" | 9' 11-1/2" | 11' 11-1/2" |
| 4' x 18' | 4' 5/8" | 9' 11-1/2" | 18' 0" |
| 5' x 12' | 5' 5" | 11' 3-15/16" | 11' 11-1/2" |
| 5' x 18' | 5' 5" | 11' 3-15/16" | 17' 11-7/8" |
| 8P' x 12' | 7' 10" | 13' 8-7/8" | 11' 11-3/4" |
| 8P' x 18' | 7' 10" | 13' 8-7/8" | 18' 0" |
| 8P' x 24' | 7' 10" | 13' 8-7/8" | 24' 1" |
| 8P' x 36' | 7' 10" | 13' 8-7/8" | 36' 2-1/4" |
| 10' x 12' | 9' 9-3/4" | 15' 8-5/8" | 11' 11-3/4" |
| 10' x 18' | 9' 9-3/4" | 15' 8-5/8" | 18' 1/4" |
| 10' x 24' | 9' 9-3/4" | 15' 8-5/8" | 24' 1-1/8" |
| 10' x 36' | 9' 9-3/4" | 15' 8-5/8" | 36' 2-1/2" |



OPTIONAL EQUIPMENT

Electric Water Level Control

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



Screened Bottom Panels

Protective inlet screens are provided on the sides and/or end of the unit's air intake. Screens are not provided below the fan section since most units are mounted on the roof or at ground level. It is recommended that bottom screens be added to the unit when it will be elevated. These screens can be provided by the factory at an additional cost or added by the installing contractor.

Solid Bottom Panels for Ducted Installations

When centrifugal fan units are installed indoors and intake air is ducted to the unit, a solid bottom panel is required to completely enclose the fan section and

prevent the unit from drawing air from the room into the fan intakes. When this option is ordered, air inlet screens are omitted.

Stainless Steel Material Options

The EVAPCOAT Corrosion Protection System is satisfactory for most applications. If additional corrosion protection is required the following stainless steel options are available. Please contact your local EVAPCO representative for pricing.

- Stainless Steel Cold Water Basins— (Standard on LPT Models)
- Stainless Steel Water Touch Basin
- Stainless Steel Water Touch Units
- All Stainless Steel Units

Additional Available Options Include:

- Vibration Cutout Switch
- Electric Basin Heaters
- Vertical Ladders
- Sound Attenuation Packages

LSTE/LPT

OPTIONAL EQUIPMENT FOR LOW SOUND APPLICATIONS

Sound Attenuation Packages

LPT: The standard LPT is the quietest, low profile centrifugal fan cooling tower in the industry. This is achieved by providing the first stage of inlet sound attenuation as part of the LPT 's standard design. The LPT drive system, including the fan housing(s), electric motors, belts, bearings and drives, is completely enclosed by a protective housing which covers the drive system and also provides a significant level of sound reduction.

LSTE: The centrifugal fan design of the LSTE models operate at lower sound levels, which make these units well suited for sound sensitive applications.

If the standard LSTE and LPT sound pressure level is not quiet enough for certain applications, the sound levels can be further reduced by adding various stages of sound attenuation. Consult the factory for Factory Certified Sound Data for each option. Please refer to Evapco's selection software for correct model number designation and CTI Certified performance.

Fan Side Inlet Attenuation

(LPT Only)

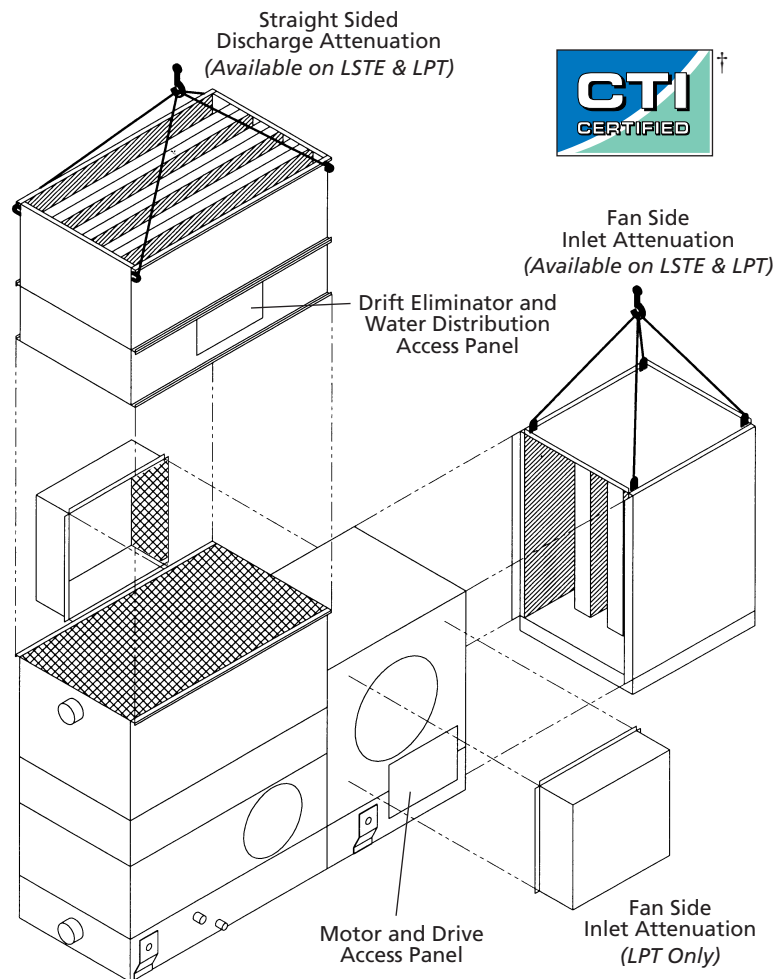
Reduces sound radiated from the fan side air intakes and has an open side to allow for air entry. This attenuation package ships loose to be mounted in the field on each side of the tower over the fan intakes.

Inlet Attenuation

Reduces sound radiated through the end and side air intakes. It consists of baffled panels to change the path of the air entry and to capture the radiated noise thus reducing the overall sound levels generated. In addition, the external belt adjustment mechanism is extended through the inlet attenuator to allow easy belt adjustment without having to enter the unit. Solid bottom panels are included with this option to force the inlet air through the attenuator.

Discharge Attenuation

The discharge attenuation hood features a straight sided design with insulated baffles to reduce the overall sound levels of the discharge air. The discharge attenuation incorporates a large access panel to allow entry to the drift eliminators and water distribution system. If a higher discharge velocity is required with minimal sound attenuation, a tapered discharge hood is available.



Example of Sound Attenuation on an LPT Model

† Mark owned by the Cooling Technology Institute

DISCHARGE & INTAKE ATTENUATION DIMENSIONS

LSTE

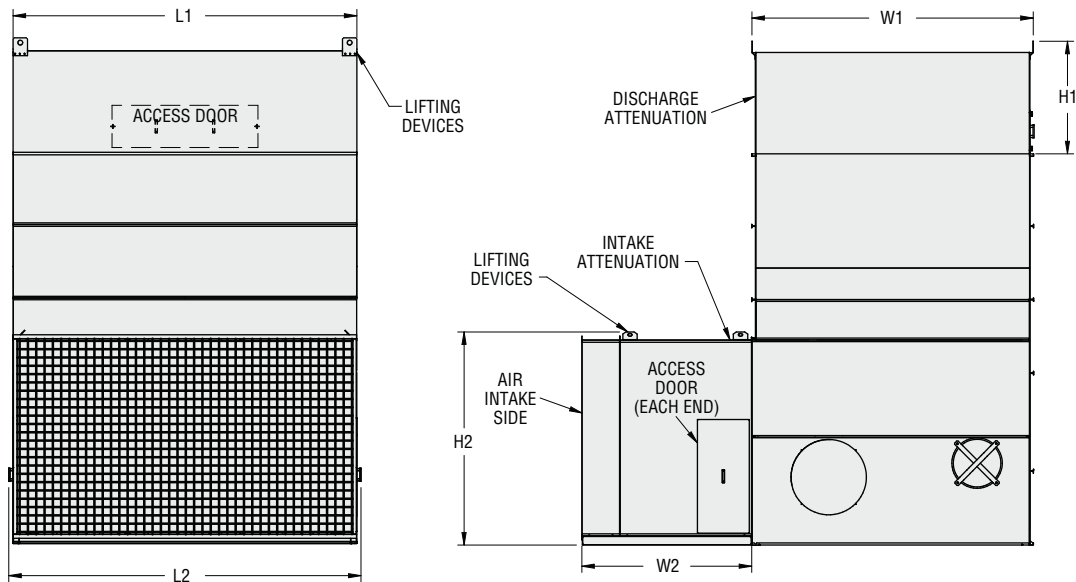
LSTE Discharge Attenuation Dimensions*

| Unit Footprint | H1 (in.) | L1 (in.) | W1 (in.) | Weight per Attenuator (lbs.) | Number of Attenuators |
|----------------|----------|----------|----------|------------------------------|-----------------------|
| 4' x 6' | 46-7/8 | 71-7/8 | 45-1/2 | 430 | 1 |
| 4' x 9' | 46-7/8 | 107-1/4 | 45-1/3 | 570 | 1 |
| 4' x 12' | 46-7/8 | 143-1/2 | 45-1/4 | 750 | 1 |
| 4' x 18' | 46-7/8 | 216 | 45-1/2 | 1030 | 1 |
| 5' x 12' | 47 | 143-1/2 | 61-3/4 | 890 | 1 |
| 5' x 18' | 47 | 216 | 61-7/8 | 1220 | 1 |
| 8P' x 12' | 71-3/8 | 143-1/2 | 95-3/8 | 1890 | 1 |
| 8P' x 18' | 71-3/8 | 216 | 95-3/8 | 2570 | 1 |
| 8P' x 24' | 71-3/8 | 288-1/2 | 95-3/8 | 1890 | 2 |
| 8P' x 36' | 71-3/8 | 216 | 95-1/4 | 2570 | 3 |
| 10' x 12' | 71-3/8 | 143-1/2 | 118-7/8 | 2240 | 1 |
| 10' x 18' | 71-3/8 | 216 | 119-1/8 | 3030 | 1 |
| 10' x 24' | 71-3/8 | 288-7/8 | 118-7/8 | 2240 | 2 |
| 10' x 36' | 71-3/8 | 433-7/8 | 119-1/8 | 3030 | 3 |

LSTE Intake Attenuation Dimensions*

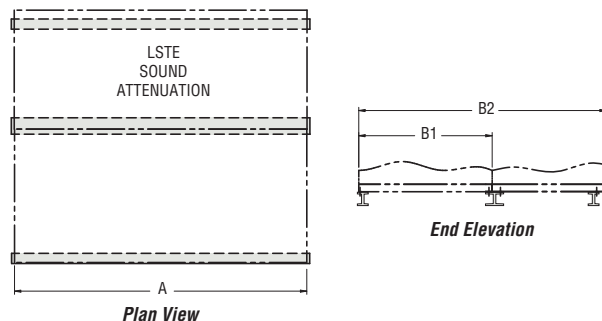
| Unit Footprint | H2 (in.) | L2 (in.) | W2 (in.) | Weight per Attenuator (lbs.) | Number of Attenuators |
|----------------|----------|----------|----------|------------------------------|-----------------------|
| 4' x 6' | 39-3/4 | 75-5/8 | 71-3/8 | 960 | 1 |
| 4' x 9' | 39-3/4 | 111 | 71-3/8 | 1310 | 1 |
| 4' x 12' | 39-3/4 | 147-1/4 | 71-3/8 | 1660 | 1 |
| 4' x 18' | 39-3/4 | 219-3/4 | 71-3/8 | 2440 | 1 |
| 5' x 12' | 46 | 147-1/2 | 71-3/8 | 1740 | 1 |
| 5' x 18' | 46 | 219-3/4 | 71-3/8 | 2530 | 1 |
| 8P' x 12' | 81-1/2 | 147-3/8 | 71-3/8 | 2210 | 1 |
| 8P' x 18' | 81-1/2 | 219-3/4 | 71-3/8 | 3680 | 1 |
| 8P' x 24' | 81-1/2 | 292-1/2 | 71-3/8 | 2510 | 2 |
| 8P' x 36' | 81-1/2 | 437-3/4 | 71-3/8 | 3680 | 2 |
| 10' x 12' | 89 | 147-1/2 | 71-3/8 | 2510 | 1 |
| 10' x 18' | 89 | 219-3/4 | 71-3/8 | 3900 | 1 |
| 10' x 24' | 89 | 292-3/4 | 71-3/8 | 2350 | 2 |
| 10' x 36' | 89 | 437-3/4 | 71-3/8 | 3900 | 2 |

* Attenuation dimensions may vary slightly from catalog. See Factory certified prints for exact dimensions.



LSTE Attenuation

Note: Intake Sound Attenuation must be fully supported. If the recommended steel support is being used, a third I-Beam is required for the Intake Attenuation. Refer to page 13 for A, B1 and B2 dimensions.



DISCHARGE & INTAKE ATTENUATION DIMENSIONS

LPT Discharge Attenuation Dimensions*

| Fill Section Footprint | H1 (in.) | L1 (in.) | W1 (in.) | Weight per Attenuator (lbs.) | Number of Attenuators |
|------------------------|----------|----------|----------|------------------------------|-----------------------|
| 3' x 6' | 43-3/8 | 71-3/4 | 40-1/2 | 430 | 1 |
| 5' x 6' | 43-3/8 | 71-3/4 | 60-5/8 | 530 | 1 |
| 5' x 9' | 43-3/8 | 107-1/4 | 60-5/8 | 720 | 1 |
| 5' x 12' | 43-3/8 | 143-5/8 | 60-5/8 | 920 | 1 |
| 8' x 9' | 43-3/8 | 107-1/4 | 94 | 970 | 1 |
| 8' x 12' | 55-3/8 | 143-5/8 | 94 | 1230 | 1 |

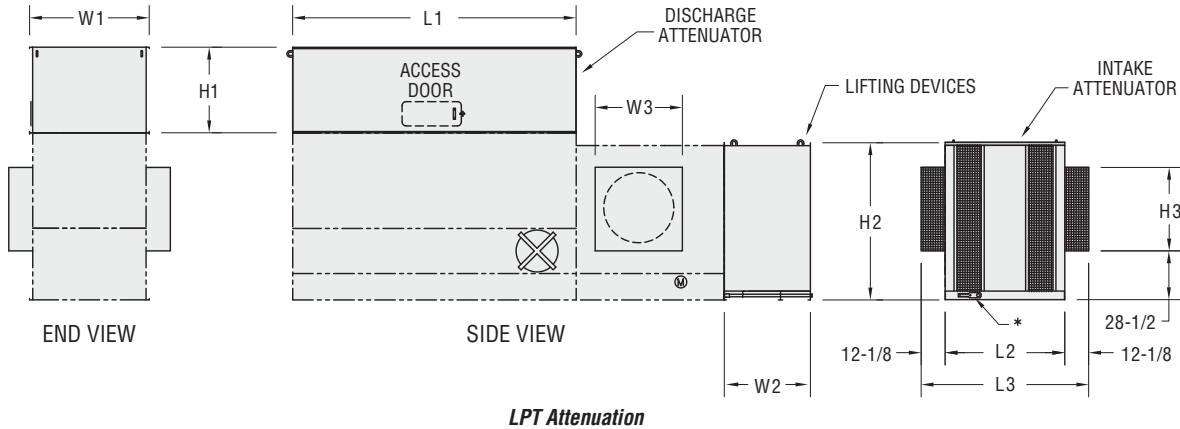
LPT Fan End Attenuation Dimensions*

| Fill Section Footprint | H2 (in.) | L2 (in.) | W2 (in.) | Weight per Attenuator (lbs.) | Number of Attenuators |
|------------------------|----------|----------|----------|------------------------------|-----------------------|
| 3' x 6' | 63-7/8 | 40-1/2 | 43-5/8 | 450 | 1 |
| 5' x 6' | 79-5/8 | 60-5/8 | 43-1/2 | 690 | 1 |
| 5' x 9' | 79-5/8 | 60-5/8 | 43-1/2 | 690 | 1 |
| 5' x 12' | 79-5/8 | 60-5/8 | 43-1/2 | 690 | 1 |
| 8' x 9' | 79-5/8 | 94-1/4 | 43-5/8 | 920 | 1 |
| 8' x 12' | 79-5/8 | 94-1/4 | 43-5/8 | 920 | 1 |

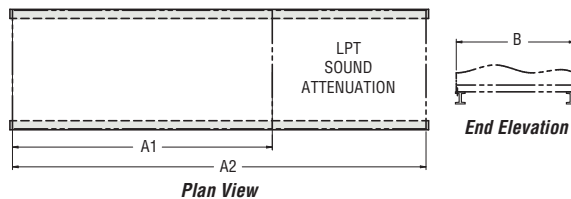
LPT Fan Side Attenuation Dimensions*

| Fill Section Footprint | H3 (in.) | L3 (in.) | W3 (in.) | Weight per Attenuator (lbs.) | Number of Attenuators |
|------------------------|----------|----------|----------|------------------------------|-----------------------|
| 3' x 6' | 33-5/8 | 64-3/4 | 34-3/4 | 150 | 2 |
| 5' x 6' | 36-7/8 | 84-7/8 | 54 | 230 | 2 |
| 5' x 9' | 36-7/8 | 84-7/8 | 54 | 230 | 2 |
| 5' x 12' | 36-7/8 | 84-7/8 | 54 | 230 | 2 |
| 8' x 9' | 42-3/8 | 118-1/2 | 44-1/8 | 230 | 2 |
| 8' x 12' | 42-3/8 | 118-1/2 | 44-1/8 | 230 | 2 |

* Attenuation dimensions may vary slightly from catalog. See Factory certified prints for exact dimensions.



Note: Intake Sound Attenuation must be fully supported. If the recommended steel support is being used, an extended I-Beam is required for the Intake Attenuation. Refer to page 13.



SPECIFICATIONS

LSTE/LPT

SECTION 23 65 00 – FACTORY-FABRICATED COOLING TOWERS

PART 1 – GENERAL

- 1.1 RELATED DOCUMENTS
 - A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this section.
- 1.2 SUMMARY:
 - A. This Section includes factory assembled and tested, open circuit, forced draft counterflow cooling tower.
- 1.3 SUBMITTALS
 - A. General. Submit the following:
 1. Certified drawings of the cooling tower, sound data, recommended steel support indicating weight loadings, wiring diagrams, installation instructions, operation and maintenance instructions, and thermal performance guarantee by the manufacturer.
- 1.4 QUALITY ASSURANCE
 - A. Verification of Performance:
 1. Test and certify cooling tower thermal performance according to CTI Standard 201.
 2. Test and certify cooling tower sound performance according to CTI ATC-128.
 - B. Meet or Exceed energy efficiency per ASHRAE 90.1.
- 1.5 WARRANTY
 - A. Motor/Drive System: Five (5) year comprehensive warranty against materials and workmanship including motor, fan, bearings, mechanical support, sheaves, bushings and belt.
 - B. Unit: One (1) year from start-up, not to exceed eighteen (18) months from shipment on the unit.

PART 2 - PRODUCTS

- 2.1 MANUFACTURERS
 - A. Manufactures: Subject to compliance with requirements, provide cooling towers manufactured by one of the following:
 1. EVAPCO, Inc.
 2. Approved Substitute
- 2.2 MATERIALS
 - A. Galvanized Sheet Steel complying with ASTM A 653/A 653M and having G-235 designation.
 - B. Optional Type 304 and/or 316 Stainless Steel as specified.
- 2.3 FORCED-DRAFT, COUNTERFLOW COOLING TOWERS
 - A. Description: Factory assembled and tested, forced draft counterflow cooling tower complete with fill, fan, louvers, accessories, and rigging supports.
 - B. Cooling Tower Characteristics and Capacities: Refer to the Cooling Tower schedule.
 - C. Fan(s):
 1. Type and Material: forward curved, centrifugal of hotdipped galvanized construction. The fans shall be factory installed, and statically and dynamically balanced for vibration free operation.
 2. Fan Housing: The complete drive system, including the electric motor, belts, bearings, fan, and drives shall be completely enclosed in a protective housing which covers the drive system and provides sound reduction.
 3. Maximum sound pressure level of ____dB(A) measured at 5 feet above the fan discharge during full speed operation in accordance with CTI Standard ATC-128.
 - D. Water Distribution System: Non-corrosive materials.
 1. Evenly distribute of water over fill material with pressurized spray tree.
 - a. Pipes: Schedule 40 PVC, Non-corrosive Materials
 - b. Nozzles: Non-clogging, ABS Plastic, threaded into branch piping.
 2. Maximum pressure at inlet shall be ____ psig.
 - E. IBC Compliance: The unit structure shall be designed, analyzed, and constructed in accordance with the latest edi-

- tion of the International Building Code (IBC) Regulations for seismic loads up to ____ g or wind loads up to __ psf.
- F. Collection Basin Material: Type 304 Stainless Steel (Standard LPT, optional LSTE) or Heavy Gauge G-235 Galvanized Steel (Standard LSTE, optional LPT) for long life and durability:
 1. Removable Type 304 Stainless Steel strainer with openings smaller than nozzle orifices.
 2. Joints: Bolted and sealed watertight.
 3. Overflow, Makeup and Drain connections: G-235 Galvanized Steel (MPT).
 4. Outlet Connection: G-235 Galvanized Steel Beveled for weld and grooved for mechanical coupling.
- G. Casing: Heavy Gauge G-235 Galvanized Steel or Type 304 Stainless Steel (Optional):
 1. Casing panels shall totally encase the fill media to protect the fill from damage due to direct atmospheric exposure. All galvanized steel panel edges shall be coated with a 95% pure zinc compound during fabrication.
 2. Fasteners: Corrosion resistance equal to or better than materials being fastened.
 3. Joints: Sealed watertight.
 4. Welded Connections: Continuous and watertight
- H. Fill Media: PVC; resistant to rot, decay and biological attack; formed, crossfluted bonded together for strength and durability in block format for easy removal and replacement; suitable for use as a working surface; self extinguishing with flame spread rating of 5 per ASTM E84-81a; able to withstand continuous operating temperature of 130°F; and fabricated, formed and installed by the manufacturer to ensure water breaks up into droplets.
- I. Drift Eliminators: Same material as Fill. 0.001% drift rate.
- J. Protective Air Inlet Screens: Galvanized Steel
- K. Water Level Control: Brass mechanical makeup water valve and plastic float with an adjustable linkage.
- 2.4 MOTORS AND DRIVES
 - A. General requirements for motors are specified in Division 23 Section "Motors".
 - B. Enclosure Type: TEFC
 - C. Motor Speed: Premium Efficient Inverter-Ready (Option: 2-speed)
 - D. Drive: Power Band Belt designed for 150% of the motor nameplate HP.
 1. Belt: V-belt type neoprene.
 2. Sheaves: Aluminum alloy, taper lock design.
 3. Bearings: Heavy duty, self-aligning bearings with extended grease lines and fittings.
 4. Fan Shaft: Solid steel (LPT) or hollow steel with forged bearing journals (LSTE).
 5. Vibration Cutout Switch (Optional): Mechanical switch to de-energize fan motors if excessive vibration in NEMA 4 enclosure.
- 2.5 MAINTENANCE ACCESS
 - A. Access Door: A circular access door shall be located above the basin to allow for easy access to the pan interior.
 - B. Ladders: Aluminum, vertical complying with 29 CFR 1910.27.
- 2.6 SOUND ATTENUATION (OPTIONAL)
 - A. Inlet Attenuation: Materials to be same as basin section. Baffled panels shall change the path of air entry and capture radiated noise. External belt adjustment and lubrication points shall be provided.
 - B. Discharge Attenuation: Straight sided discharge hood with insulated baffles to reduce the overall sound level of the discharge air. A large access panel to allow access to the water distribution system and drift eliminators shall be provided.



LSTE

THERMAL PERFORMANCE

MODELS LSTE-416 TO 439

Thermal performance certified by the Cooling Technology Institute (CTI) in accordance with CTI Standard STD-201



To Make a Selection:

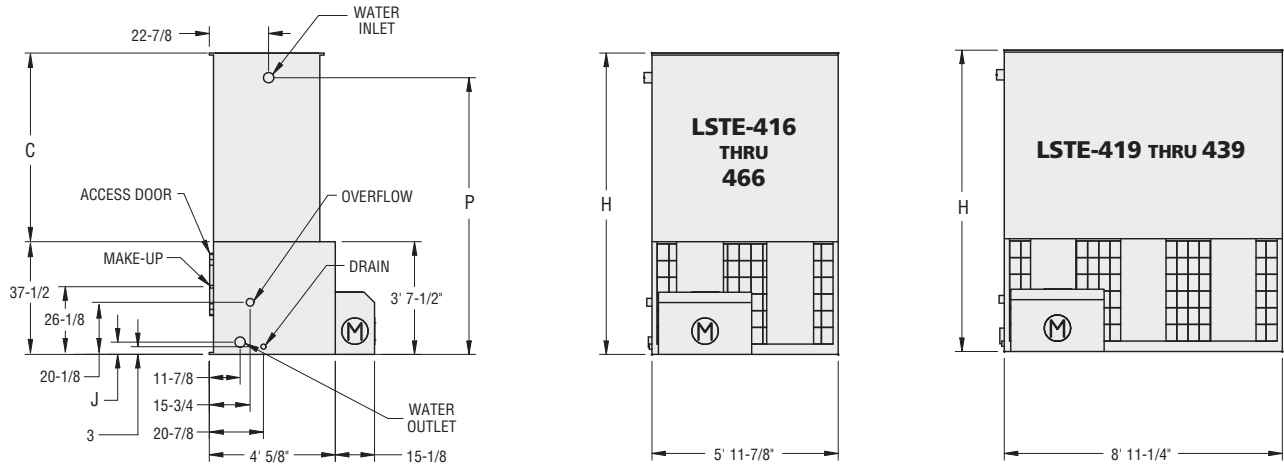
Locate the column with the desired operating temperature conditions. Read down the column until you find the GPM equal to or greater than the flow required. Read horizontally to the left to find the model number of the unit that will perform the duty.

| MODEL NO. | MOTOR HP | COOLING CAPACITY IN GPM | | | | | | | | | | | |
|-----------|----------|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| | | TEMP °F | 90° | 95° | 90° | 95° | 90° | 95° | 90° | 95° | 95° | 100° | |
| | | EWT | 80° | 80° | 80° | 80° | 80° | 80° | 80° | 80° | 80° | 85° | 85° |
| | | LWT | 66° | 66° | 68° | 68° | 70° | 70° | 72° | 72° | 75° | 75° | |
| LSTE-416 | (1) 2 | | 135 | 102 | 124 | 94 | 108 | 83 | 92 | 73 | 125 | 96 | |
| LSTE-426 | (1) 3 | | 157 | 120 | 144 | 109 | 126 | 97 | 108 | 85 | 146 | 112 | |
| LSTE-436 | (1) 5 | | 189 | 145 | 173 | 133 | 152 | 118 | 131 | 104 | 175 | 136 | |
| LSTE-446 | (1) 7.5 | | 217 | 168 | 200 | 154 | 176 | 137 | 152 | 121 | 202 | 158 | |
| LSTE-456 | (1) 7.5 | | 236 | 186 | 218 | 172 | 194 | 155 | 170 | 138 | 221 | 176 | |
| LSTE-466 | (1) 10 | | 258 | 205 | 239 | 189 | 213 | 171 | 187 | 152 | 242 | 193 | |
| LSTE-419 | (1) 7.5 | | 285 | 219 | 262 | 200 | 230 | 178 | 198 | 156 | 265 | 205 | |
| LSTE-429 | (1) 10 | | 315 | 243 | 290 | 223 | 255 | 198 | 220 | 175 | 293 | 228 | |
| LSTE-439 | (1) 10 | | 343 | 270 | 318 | 250 | 283 | 225 | 247 | 200 | 321 | 255 | |

| MODEL NO. | MOTOR HP | COOLING CAPACITY IN GPM | | | | | | | | | | |
|-----------|----------|-------------------------|-----|------|-----|-----|------|------|-----|-----|------|------|
| | | TEMP °F | 95° | 100° | 95° | 97° | 100° | 102° | 95° | 97° | 100° | 102° |
| | | EWT | 85° | 85° | 85° | 87° | 85° | 87° | 85° | 87° | 85° | 87° |
| | | LWT | 76° | 76° | 78° | 78° | 78° | 78° | 80° | 80° | 80° | 80° |
| LSTE-416 | (1) 2 | | 117 | 90 | 100 | 125 | 78 | 96 | 80 | 105 | 65 | 83 |
| LSTE-426 | (1) 3 | | 136 | 105 | 116 | 145 | 92 | 113 | 93 | 123 | 76 | 97 |
| LSTE-436 | (1) 5 | | 165 | 128 | 141 | 175 | 111 | 137 | 114 | 149 | 92 | 118 |
| LSTE-446 | (1) 7.5 | | 190 | 149 | 164 | 202 | 130 | 159 | 132 | 172 | 108 | 137 |
| LSTE-456 | (1) 7.5 | | 209 | 167 | 182 | 220 | 147 | 176 | 150 | 190 | 124 | 154 |
| LSTE-466 | (1) 10 | | 229 | 183 | 200 | 241 | 162 | 194 | 165 | 209 | 137 | 170 |
| LSTE-419 | (1) 7.5 | | 249 | 193 | 213 | 264 | 168 | 206 | 171 | 225 | 139 | 178 |
| LSTE-429 | (1) 10 | | 276 | 215 | 237 | 292 | 187 | 229 | 191 | 249 | 156 | 198 |
| LSTE-439 | (1) 10 | | 303 | 242 | 264 | 321 | 213 | 256 | 217 | 277 | 180 | 224 |

Note: For alternate selections and conditions other than those stated, consult your evapSe/lect selection program or local EVAPCO representative.

ENGINEERING DATA & DIMENSIONS



SMALL CENTRIFUGAL FAN MODELS

LSTE-416 TO 439

| MODEL NO. | WEIGHT (LBS.) | | NO. FANS | FAN MOTOR HP* | AIR FLOW CFM | DIMENSIONS | | | | CONNECTIONS (IN.) | | | | |
|-----------|---------------|-----------|----------|---------------|--------------|------------|------------|---------|--------|-------------------|-----------|---------|-------|-----------|
| | SHIPPING | OPERATING | | | | H | P | C | J | WATER IN | WATER OUT | MAKE UP | DRAIN | OVER FLOW |
| LSTE-416 | 1,640 | 2,300 | 2 | 2 | 9,100 | 8' 8-1/4" | 7' 10-3/4" | 5' 3/4" | 4-3/4" | 4" | 4" | 1" | 2" | 3" |
| LSTE-426 | 1,670 | 2,330 | 2 | 3 | 10,300 | 8' 8-1/4" | 7' 10-3/4" | 5' 3/4" | 4-3/4" | 4" | 4" | 1" | 2" | 3" |
| LSTE-436 | 1,680 | 2,340 | 2 | 5 | 12,100 | 8' 8-1/4" | 7' 10-3/4" | 5' 3/4" | 4-3/4" | 4" | 4" | 1" | 2" | 3" |
| LSTE-446 | 1,730 | 2,390 | 2 | 7.5 | 13,700 | 8' 8-1/4" | 7' 10-3/4" | 5' 3/4" | 4-3/4" | 4" | 4" | 1" | 2" | 3" |
| LSTE-456 | 1,800 | 2,460 | 2 | 7.5 | 13,300 | 9' 8-1/4" | 8' 10-3/4" | 6' 3/4" | 4-3/4" | 4" | 4" | 1" | 2" | 3" |
| LSTE-466 | 1,810 | 2,470 | 2 | 10 | 14,500 | 9' 8-1/4" | 8' 10-3/4" | 6' 3/4" | 4-3/4" | 4" | 4" | 1" | 2" | 3" |
| LSTE-419 | 2,270 | 3,290 | 3 | 7.5 | 18,300 | 8' 8-1/4" | 7' 10-3/4" | 5' 3/4" | 6" | 4" | 4" | 1" | 2" | 3" |
| LSTE-429 | 2,280 | 3,300 | 3 | 10 | 19,900 | 8' 8-1/4" | 7' 10-3/4" | 5' 3/4" | 6" | 4" | 4" | 1" | 2" | 3" |
| LSTE-439 | 2,310 | 3,330 | 3 | 10 | 19,400 | 9' 8-1/4" | 8' 10-3/4" | 6' 3/4" | 6" | 4" | 4" | 1" | 2" | 3" |

NOTES:

1. An adequately sized bleed line must be installed in the cooling tower system to prevent build-up of impurities in the recirculated water.
2. Connections smaller than 6" are MPT. Connections 6" or larger are Beveled For Weld/Grooved for mechanical coupling (BFW/Grooved).
3. Do not use catalog drawings for certified prints. Dimensions are subject to change.

* For external static pressure up to 1/2", use next size fan motor.



LSTE

THERMAL PERFORMANCE

MODELS LSTE-4112 TO 4518

Thermal performance certified by the Cooling Technology Institute (CTI) in accordance with CTI Standard STD-201



To Make a Selection:

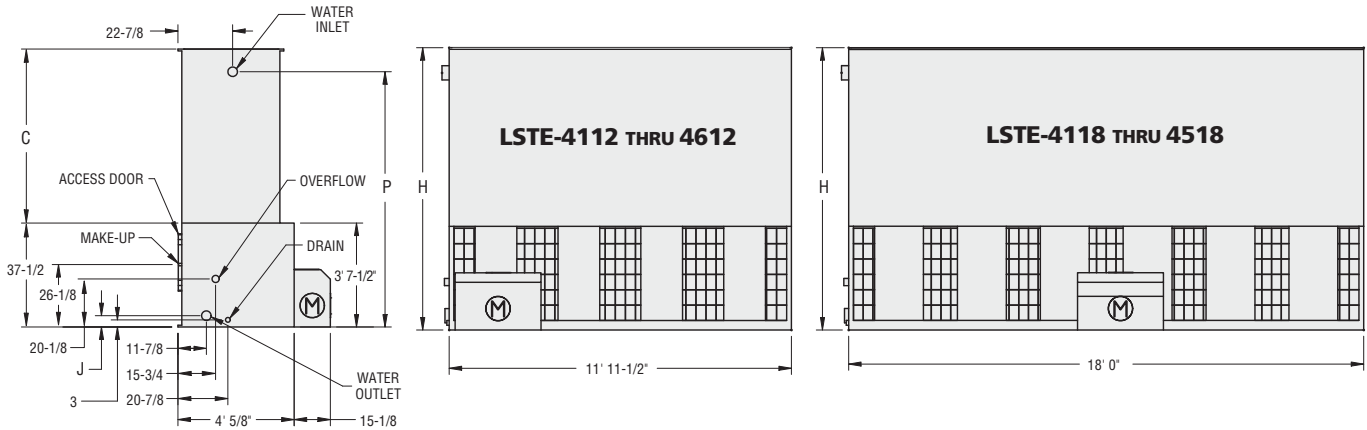
Locate the column with the desired operating temperature conditions. Read down the column until you find the GPM equal to or greater than the flow required. Read horizontally to the left to find the model number of the unit that will perform the duty.

| MODEL NO. | MOTOR HP | COOLING CAPACITY IN GPM | | | | | | | | | | | |
|-----------|----------|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| | | TEMP °F | 90° | 95° | 90° | 95° | 90° | 95° | 90° | 95° | 95° | 100° | |
| | | EWT | 80° | 80° | 80° | 80° | 80° | 80° | 80° | 80° | 80° | 85° | 85° |
| | | LWT | 66° | 66° | 68° | 68° | 70° | 70° | 72° | 72° | 75° | 75° | |
| LSTE-4112 | (1) 10 | | 384 | 295 | 352 | 270 | 309 | 239 | 266 | 211 | 357 | 276 | |
| LSTE-4212 | (1) 10 | | 422 | 331 | 390 | 305 | 346 | 274 | 302 | 243 | 394 | 312 | |
| LSTE-4312 | (1) 10 | | 441 | 351 | 409 | 326 | 366 | 295 | 322 | 264 | 414 | 332 | |
| LSTE-4412 | (1) 15 | | 480 | 379 | 445 | 350 | 396 | 315 | 346 | 280 | 450 | 357 | |
| LSTE-4512 | (1) 15 | | 500 | 399 | 464 | 370 | 415 | 335 | 366 | 301 | 470 | 378 | |
| LSTE-4612 | (1) 20 | | 546 | 436 | 507 | 405 | 454 | 367 | 401 | 330 | 513 | 413 | |
| LSTE-4118 | (1) 20 | | 642 | 496 | 591 | 455 | 520 | 404 | 449 | 356 | 598 | 465 | |
| LSTE-4218 | (1) 20 | | 701 | 552 | 648 | 510 | 577 | 458 | 504 | 408 | 656 | 521 | |
| LSTE-4318 | (1) 25 | | 752 | 594 | 697 | 549 | 620 | 494 | 543 | 440 | 705 | 561 | |
| LSTE-4418 | (1) 25 | | 783 | 624 | 727 | 580 | 650 | 526 | 573 | 472 | 735 | 591 | |
| LSTE-4518 | (1) 30 | | 827 | 661 | 769 | 614 | 688 | 556 | 607 | 500 | 777 | 626 | |

| MODEL NO. | MOTOR HP | COOLING CAPACITY IN GPM | | | | | | | | | | |
|-----------|----------|-------------------------|-----|------|-----|-----|------|------|-----|-----|------|------|
| | | TEMP °F | 95° | 100° | 95° | 97° | 100° | 102° | 95° | 97° | 100° | 102° |
| | | EWT | 85° | 85° | 85° | 87° | 85° | 87° | 85° | 87° | 85° | 87° |
| | | LWT | 76° | 76° | 78° | 78° | 78° | 78° | 80° | 80° | 80° | 80° |
| LSTE-4112 | (1) 10 | | 335 | 260 | 287 | 356 | 226 | 278 | 231 | 302 | 188 | 239 |
| LSTE-4212 | (1) 10 | | 372 | 295 | 322 | 393 | 260 | 313 | 265 | 339 | 219 | 273 |
| LSTE-4312 | (1) 10 | | 392 | 316 | 343 | 413 | 281 | 334 | 285 | 359 | 239 | 294 |
| LSTE-4412 | (1) 15 | | 425 | 339 | 370 | 449 | 299 | 359 | 305 | 388 | 252 | 314 |
| LSTE-4512 | (1) 15 | | 444 | 359 | 390 | 468 | 320 | 379 | 325 | 407 | 273 | 335 |
| LSTE-4612 | (1) 20 | | 486 | 393 | 426 | 512 | 350 | 415 | 356 | 445 | 300 | 367 |
| LSTE-4118 | (1) 20 | | 562 | 438 | 482 | 596 | 382 | 468 | 390 | 508 | 317 | 404 |
| LSTE-4218 | (1) 20 | | 619 | 493 | 538 | 654 | 435 | 523 | 443 | 565 | 367 | 457 |
| LSTE-4318 | (1) 25 | | 665 | 532 | 580 | 703 | 470 | 563 | 478 | 608 | 397 | 493 |
| LSTE-4418 | (1) 25 | | 696 | 563 | 610 | 733 | 501 | 594 | 509 | 638 | 428 | 525 |
| LSTE-4518 | (1) 30 | | 736 | 596 | 646 | 775 | 531 | 629 | 540 | 675 | 454 | 556 |

Note: For alternate selections and conditions other than those stated, consult your evapSelect selection program or local EVAPCO representative.

ENGINEERING DATA & DIMENSIONS



SMALL CENTRIFUGAL FAN MODELS

LSTE-4112 TO 4518

| MODEL NO. | WEIGHT (LBS.) | | NO. FANS | FAN MOTOR HP* | AIR FLOW CFM | DIMENSIONS | | | | CONNECTIONS (IN.) | | | | |
|-----------|---------------|-----------|----------|---------------|--------------|-------------|------------|-----------|----|-------------------|-----------|---------|-------|-----------|
| | SHIPPING | OPERATING | | | | H | P | C | J | WATER IN | WATER OUT | MAKE UP | DRAIN | OVER FLOW |
| LSTE-4112 | 2,930 | 4,240 | 4 | 10 | 24,400 | 8' 10-3/8" | 7' 11-7/8" | 5' 2-7/8" | 6" | 6" | 6" | 1" | 2" | 3" |
| LSTE-4212 | 3,110 | 4,420 | 4 | 10 | 23,800 | 9' 10-3/8" | 8' 11-7/8" | 6' 2-7/8" | 6" | 6" | 6" | 1" | 2" | 3" |
| LSTE-4312 | 3,300 | 4,610 | 4 | 10 | 23,000 | 10' 10-3/8" | 9' 11-7/8" | 7' 2-7/8" | 6" | 6" | 6" | 1" | 2" | 3" |
| LSTE-4412 | 3,240 | 4,550 | 4 | 15 | 26,900 | 9' 10-3/8" | 8' 11-7/8" | 6' 2-7/8" | 6" | 6" | 6" | 1" | 2" | 3" |
| LSTE-4512 | 3,430 | 4,740 | 4 | 15 | 26,000 | 10' 10-3/8" | 9' 11-7/8" | 7' 2-7/8" | 6" | 6" | 6" | 1" | 2" | 3" |
| LSTE-4612 | 3,490 | 4,800 | 4 | 20 | 28,400 | 10' 10-3/8" | 9' 11-7/8" | 7' 2-7/8" | 6" | 6" | 6" | 1" | 2" | 3" |
| LSTE-4118 | 4,330 | 6,330 | 6 | 20 | 40,200 | 8' 10-3/8" | 7' 11-7/8" | 5' 2-7/8" | 6" | 6" | 6" | 1" | 2" | 3" |
| LSTE-4218 | 4,600 | 6,600 | 6 | 20 | 39,200 | 9' 10-3/8" | 8' 11-7/8" | 6' 2-7/8" | 6" | 6" | 6" | 1" | 2" | 3" |
| LSTE-4318 | 4,630 | 6,630 | 6 | 25 | 41,900 | 9' 10-3/8" | 8' 11-7/8" | 6' 2-7/8" | 6" | 6" | 6" | 1" | 2" | 3" |
| LSTE-4418 | 4,910 | 6,910 | 6 | 25 | 40,600 | 10' 10-3/8" | 9' 11-7/8" | 7' 2-7/8" | 6" | 6" | 6" | 1" | 2" | 3" |
| LSTE-4518 | 4,960 | 6,960 | 6 | 30 | 42,900 | 10' 10-3/8" | 9' 11-7/8" | 7' 2-7/8" | 6" | 6" | 6" | 1" | 2" | 3" |

NOTES:

1. An adequately sized bleed line must be installed in the cooling tower system to prevent build-up of impurities in the recirculated water.
 2. Connections smaller than 6" are MPT. Connections 6" or larger are Beveled For Weld/Grooved for mechanical coupling (BFW/Grooved).
 3. Do not use catalog drawings for certified prints. Dimensions are subject to change.
- * For external static pressure up to 1/2", use next size fan motor.



LSTE

THERMAL PERFORMANCE

MODELS LSTE-5112 TO 5718

Thermal performance certified by the Cooling Technology Institute (CTI) in accordance with CTI Standard STD-201



To Make a Selection:

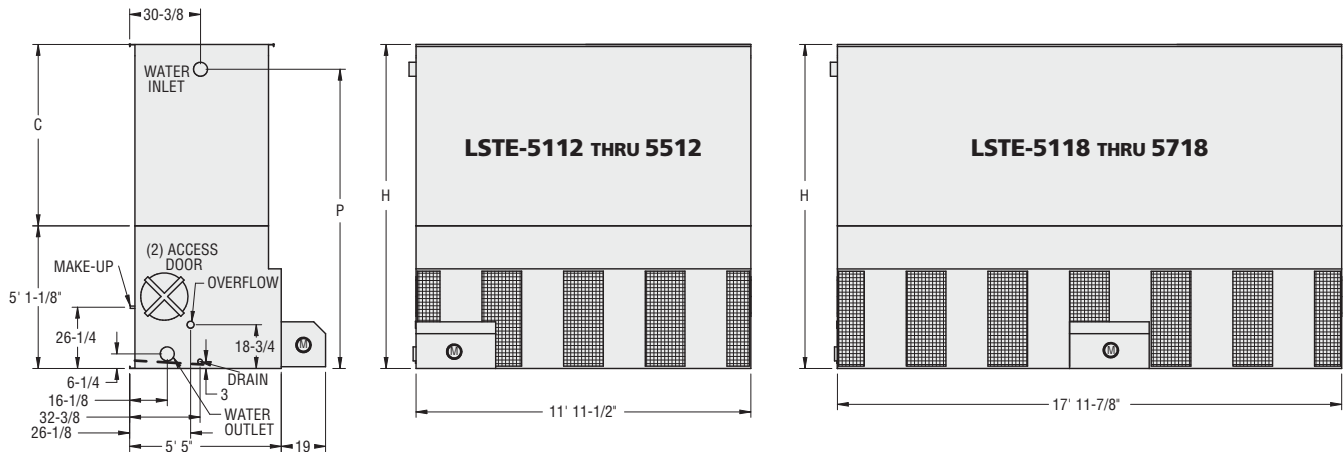
Locate the column with the desired operating temperature conditions. Read down the column until you find the GPM equal to or greater than the flow required. Read horizontally to the left to find the model number of the unit that will perform the duty.

| MODEL NO. | MOTOR HP | COOLING CAPACITY IN GPM | | | | | | | | | | |
|-----------|----------|-------------------------|------|------|------|-----|------|-----|-----|-----|------|------|
| | | TEMP °F | 90° | 95° | 90° | 95° | 90° | 95° | 90° | 95° | 95° | 100° |
| | | EWT | 80° | 80° | 80° | 80° | 80° | 80° | 80° | 80° | 85° | 85° |
| | | LWT | 66° | 66° | 68° | 68° | 70° | 70° | 72° | 72° | 75° | 75° |
| WB | 624 | 483 | 575 | 443 | 506 | 394 | 437 | 347 | 582 | 453 | | |
| LSTE-5112 | (1) 20 | | 624 | 483 | 575 | 443 | 506 | 394 | 437 | 347 | 582 | 453 |
| LSTE-5212 | (1) 20 | | 683 | 538 | 632 | 497 | 562 | 447 | 491 | 398 | 639 | 508 |
| LSTE-5312 | (1) 25 | | 731 | 578 | 677 | 534 | 603 | 481 | 528 | 429 | 685 | 545 |
| LSTE-5412 | (1) 25 | | 760 | 607 | 706 | 563 | 632 | 511 | 557 | 459 | 714 | 574 |
| LSTE-5512 | (1) 30 | | 803 | 642 | 747 | 596 | 669 | 541 | 590 | 486 | 755 | 608 |
| LSTE-5118 | (1) 25 | | 885 | 681 | 813 | 624 | 714 | 554 | 616 | 488 | 823 | 638 |
| LSTE-5218 | (1) 30 | | 942 | 728 | 867 | 668 | 763 | 594 | 659 | 523 | 878 | 683 |
| LSTE-5318 | (1) 40 | | 1036 | 807 | 956 | 741 | 846 | 661 | 732 | 583 | 968 | 758 |
| LSTE-5418 | (1) 30 | | 1027 | 809 | 951 | 748 | 846 | 672 | 739 | 598 | 962 | 763 |
| LSTE-5518 | (1) 40 | | 1124 | 890 | 1042 | 823 | 929 | 741 | 814 | 661 | 1054 | 840 |
| LSTE-5618 | (1) 40 | | 1169 | 933 | 1087 | 867 | 973 | 786 | 858 | 707 | 1098 | 884 |
| LSTE-5718 | (1) 50 | | 1251 | 1000 | 1163 | 930 | 1042 | 843 | 920 | 759 | 1176 | 948 |

| MODEL NO. | MOTOR HP | COOLING CAPACITY IN GPM | | | | | | | | | | |
|-----------|----------|-------------------------|------|------|-----|------|------|------|-----|------|------|------|
| | | TEMP °F | 95° | 100° | 95° | 97° | 100° | 102° | 95° | 97° | 100° | 102° |
| | | EWT | 85° | 85° | 85° | 87° | 85° | 87° | 85° | 87° | 85° | 87° |
| | | LWT | 76° | 76° | 78° | 78° | 78° | 78° | 80° | 80° | 80° | 80° |
| WB | 547 | 427 | 470 | 580 | 372 | 456 | 380 | 495 | 309 | 393 | | |
| LSTE-5112 | (1) 20 | | 547 | 427 | 470 | 580 | 372 | 456 | 380 | 495 | 309 | 393 |
| LSTE-5212 | (1) 20 | | 604 | 481 | 525 | 638 | 424 | 510 | 432 | 551 | 358 | 447 |
| LSTE-5312 | (1) 25 | | 647 | 517 | 564 | 683 | 457 | 548 | 465 | 591 | 386 | 480 |
| LSTE-5412 | (1) 25 | | 676 | 547 | 593 | 712 | 487 | 577 | 495 | 620 | 416 | 510 |
| LSTE-5512 | (1) 30 | | 715 | 579 | 627 | 753 | 516 | 611 | 524 | 656 | 442 | 540 |
| LSTE-5118 | (1) 25 | | 772 | 602 | 663 | 821 | 524 | 642 | 534 | 698 | 434 | 553 |
| LSTE-5218 | (1) 30 | | 825 | 644 | 708 | 875 | 561 | 687 | 572 | 746 | 466 | 593 |
| LSTE-5318 | (1) 40 | | 911 | 716 | 786 | 965 | 625 | 762 | 637 | 827 | 520 | 660 |
| LSTE-5418 | (1) 30 | | 908 | 723 | 789 | 959 | 638 | 767 | 650 | 828 | 538 | 671 |
| LSTE-5518 | (1) 40 | | 996 | 797 | 868 | 1051 | 704 | 844 | 717 | 910 | 595 | 740 |
| LSTE-5618 | (1) 40 | | 1040 | 841 | 912 | 1096 | 750 | 888 | 762 | 954 | 641 | 785 |
| LSTE-5718 | (1) 50 | | 1113 | 902 | 978 | 1173 | 804 | 952 | 817 | 1022 | 689 | 842 |

Note: For alternate selections and conditions other than those stated, consult your evapSelect selection program or local EVAPCO representative.

ENGINEERING DATA & DIMENSIONS



SMALL CENTRIFUGAL FAN MODELS

LSTE-5112 TO 5718

| MODEL NO. | WEIGHT (LBS.) | | NO. FANS | FAN MOTOR HP* | AIR FLOW CFM | DIMENSIONS | | | CONNECTIONS (IN.) | | | | |
|-----------|---------------|-----------|----------|---------------|--------------|------------|------------|-----------|-------------------|-----------|---------|-------|-----------|
| | SHIPPING | OPERATING | | | | H | P | C | WATER IN | WATER OUT | MAKE UP | DRAIN | OVER FLOW |
| LSTE-5112 | 4,130 | 6,250 | 4 | 20 | 38,700 | 10' 6-7/8" | 9' 8-1/4" | 5' 5-3/4" | 6 | 6 | 1 | 2 | 3 |
| LSTE-5212 | 4,370 | 6,490 | 4 | 20 | 37,600 | 11' 6-7/8" | 10' 8-1/4" | 6' 5-3/4" | 6 | 6 | 1 | 2 | 3 |
| LSTE-5312 | 4,400 | 6,520 | 4 | 25 | 40,400 | 11' 6-7/8" | 10' 8-1/4" | 6' 5-3/4" | 6 | 6 | 1 | 2 | 3 |
| LSTE-5412 | 4,640 | 6,760 | 4 | 25 | 39,500 | 12' 6-7/8" | 11' 8-1/4" | 7' 5-3/4" | 6 | 6 | 1 | 2 | 3 |
| LSTE-5512 | 4,690 | 6,810 | 4 | 30 | 41,800 | 12' 6-7/8" | 11' 8-1/4" | 7' 5-3/4" | 6 | 6 | 1 | 2 | 3 |
| LSTE-5118 | 5,970 | 9,160 | 6 | 25 | 55,100 | 10' 6-7/8" | 9' 8-1/4" | 5' 5-3/4" | 6 | 6 | 2 | 2 | 3 |
| LSTE-5218 | 6,020 | 9,210 | 6 | 30 | 58,400 | 10' 6-7/8" | 9' 8-1/4" | 5' 5-3/4" | 6 | 6 | 2 | 2 | 3 |
| LSTE-5318 | 6,180 | 9,370 | 6 | 40 | 64,000 | 10' 6-7/8" | 9' 8-1/4" | 5' 5-3/4" | 6 | 6 | 2 | 2 | 3 |
| LSTE-5418 | 6,370 | 9,560 | 6 | 30 | 56,800 | 11' 6-7/8" | 10' 8-1/4" | 6' 5-3/4" | 6 | 6 | 2 | 2 | 3 |
| LSTE-5518 | 6,530 | 9,720 | 6 | 40 | 62,200 | 11' 6-7/8" | 10' 8-1/4" | 6' 5-3/4" | 6 | 6 | 2 | 2 | 3 |
| LSTE-5618 | 6,880 | 10,070 | 6 | 40 | 60,800 | 12' 6-7/8" | 11' 8-1/4" | 7' 5-3/4" | 6 | 6 | 2 | 2 | 3 |
| LSTE-5718 | 6,890 | 10,080 | 6 | 50 | 63,200 | 12' 6-7/8" | 11' 8-1/4" | 7' 5-3/4" | 6 | 6 | 2 | 2 | 3 |

NOTES:

1. An adequately sized bleed line must be installed in the cooling tower system to prevent build-up of impurities in the recirculated water.
2. Connections smaller than 6" are MPT. Connections 6" or larger are Beveled For Weld/Grooved for mechanical coupling (BFW/Grooved).
3. Do not use catalog drawings for certified prints. Dimensions are subject to change.

* For external static pressure up to 1/2", use next size fan motor.



LSTE

THERMAL PERFORMANCE

MODELS LSTE-8P112 TO 8P536

Thermal performance certified by the Cooling Technology Institute (CTI) in accordance with CTI Standard STD-201



To Make a Selection:

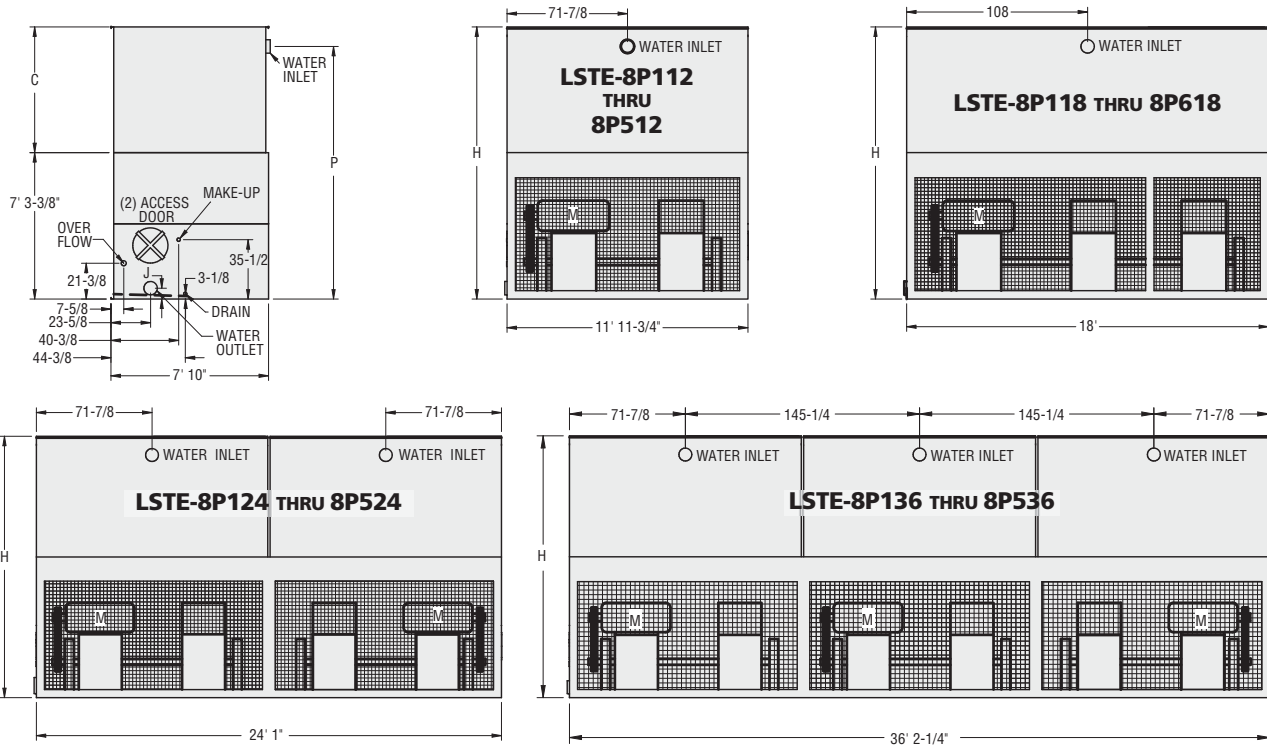
Locate the column with the desired operating temperature conditions. Read down the column until you find the GPM equal to or greater than the flow required. Read horizontally to the left to find the model number of the unit that will perform the duty.

| MODEL NO. | MOTOR HP | COOLING CAPACITY IN GPM | | | | | | | | | | |
|------------|----------|-------------------------|------|------|------|------|------|------|------|------|------|------|
| | | TEMP °F | | | | | | | | | | |
| | | EWT | 90° | 95° | 90° | 95° | 90° | 95° | 90° | 95° | 90° | 100° |
| | | LWT | 80° | 80° | 80° | 80° | 80° | 80° | 80° | 80° | 80° | 85° |
| WB | 66° | 66° | 68° | 68° | 70° | 70° | 72° | 72° | 72° | 75° | 75° | |
| LSTE-8P112 | (1) 30 | | 939 | 724 | 864 | 663 | 759 | 589 | 654 | 519 | 875 | 679 |
| LSTE-8P212 | (1) 40 | | 1035 | 803 | 954 | 737 | 842 | 657 | 728 | 579 | 966 | 754 |
| LSTE-8P312 | (1) 40 | | 1126 | 889 | 1043 | 822 | 928 | 739 | 812 | 659 | 1055 | 839 |
| LSTE-8P412 | (1) 40 | | 1172 | 935 | 1089 | 868 | 974 | 787 | 859 | 707 | 1101 | 885 |
| LSTE-8P512 | (1) 50 | | 1255 | 1002 | 1166 | 931 | 1044 | 844 | 921 | 759 | 1179 | 949 |
| LSTE-8P118 | (1) 40 | | 1360 | 1045 | 1248 | 957 | 1097 | 850 | 944 | 747 | 1264 | 979 |
| LSTE-8P218 | (1) 50 | | 1469 | 1133 | 1351 | 1040 | 1189 | 925 | 1026 | 814 | 1368 | 1064 |
| LSTE-8P318 | (1) 40 | | 1492 | 1171 | 1379 | 1080 | 1224 | 970 | 1068 | 862 | 1395 | 1104 |
| LSTE-8P418 | (1) 50 | | 1603 | 1262 | 1483 | 1165 | 1319 | 1048 | 1152 | 933 | 1500 | 1190 |
| LSTE-8P518 | (1) 60 | | 1698 | 1341 | 1573 | 1239 | 1400 | 1115 | 1225 | 993 | 1591 | 1265 |
| LSTE-8P618 | (1) 60 | | 1768 | 1410 | 1642 | 1310 | 1469 | 1187 | 1295 | 1066 | 1660 | 1335 |
| LSTE-8P124 | (2) 25 | | 1938 | 1519 | 1791 | 1402 | 1589 | 1258 | 1385 | 1118 | 1812 | 1432 |
| LSTE-8P224 | (2) 40 | | 2070 | 1606 | 1909 | 1474 | 1684 | 1313 | 1456 | 1157 | 1933 | 1508 |
| LSTE-8P324 | (2) 40 | | 2252 | 1778 | 2086 | 1643 | 1857 | 1478 | 1624 | 1317 | 2110 | 1678 |
| LSTE-8P424 | (2) 40 | | 2345 | 1870 | 2178 | 1737 | 1949 | 1574 | 1718 | 1414 | 2202 | 1771 |
| LSTE-8P524 | (2) 50 | | 2509 | 2004 | 2332 | 1862 | 2088 | 1688 | 1842 | 1518 | 2357 | 1899 |
| LSTE-8P136 | (3) 30 | | 2818 | 2171 | 2591 | 1989 | 2277 | 1768 | 1963 | 1557 | 2625 | 2036 |
| LSTE-8P236 | (3) 40 | | 3104 | 2409 | 2863 | 2211 | 2526 | 1970 | 2184 | 1736 | 2899 | 2262 |
| LSTE-8P336 | (3) 40 | | 3377 | 2667 | 3128 | 2465 | 2785 | 2218 | 2437 | 1976 | 3165 | 2517 |
| LSTE-8P436 | (3) 40 | | 3517 | 2805 | 3267 | 2605 | 2923 | 2361 | 2577 | 2121 | 3303 | 2656 |
| LSTE-8P536 | (3) 50 | | 3764 | 3007 | 3498 | 2793 | 3132 | 2532 | 2763 | 2278 | 3536 | 2848 |

| MODEL NO. | MOTOR HP | COOLING CAPACITY IN GPM | | | | | | | | | | |
|------------|----------|-------------------------|------|------|------|------|------|------|------|------|------|------|
| | | TEMP °F | | | | | | | | | | |
| | | EWT | 95° | 100° | 95° | 97° | 100° | 102° | 95° | 97° | 100° | 102° |
| | | LWT | 85° | 85° | 85° | 87° | 85° | 87° | 85° | 87° | 85° | 87° |
| WB | 76° | 76° | 78° | 78° | 78° | 78° | 80° | 80° | 80° | 80° | 80° | |
| LSTE-8P112 | (1) 30 | | 821 | 640 | 705 | 872 | 557 | 682 | 568 | 742 | 462 | 588 |
| LSTE-8P212 | (1) 40 | | 908 | 712 | 782 | 964 | 621 | 758 | 633 | 823 | 516 | 656 |
| LSTE-8P312 | (1) 40 | | 996 | 796 | 868 | 1052 | 703 | 843 | 715 | 909 | 593 | 738 |
| LSTE-8P412 | (1) 40 | | 1042 | 843 | 914 | 1098 | 750 | 889 | 763 | 955 | 641 | 786 |
| LSTE-8P512 | (1) 50 | | 1116 | 903 | 979 | 1176 | 805 | 954 | 819 | 1024 | 689 | 843 |
| LSTE-8P118 | (1) 40 | | 1186 | 923 | 1016 | 1261 | 803 | 984 | 819 | 1072 | 666 | 848 |
| LSTE-8P218 | (1) 50 | | 1285 | 1003 | 1103 | 1364 | 873 | 1070 | 891 | 1162 | 725 | 923 |
| LSTE-8P318 | (1) 40 | | 1316 | 1045 | 1142 | 1391 | 920 | 1109 | 937 | 1199 | 775 | 968 |
| LSTE-8P418 | (1) 50 | | 1416 | 1128 | 1231 | 1496 | 994 | 1196 | 1012 | 1291 | 838 | 1046 |
| LSTE-8P518 | (1) 60 | | 1502 | 1200 | 1308 | 1587 | 1059 | 1271 | 1078 | 1371 | 894 | 1113 |
| LSTE-8P618 | (1) 60 | | 1571 | 1271 | 1378 | 1656 | 1131 | 1342 | 1150 | 1441 | 967 | 1185 |
| LSTE-8P124 | (2) 25 | | 1708 | 1356 | 1481 | 1807 | 1193 | 1439 | 1216 | 1555 | 1005 | 1256 |
| LSTE-8P224 | (2) 40 | | 1817 | 1424 | 1564 | 1927 | 1242 | 1516 | 1266 | 1646 | 1032 | 1311 |
| LSTE-8P324 | (2) 40 | | 1992 | 1592 | 1735 | 2104 | 1405 | 1686 | 1430 | 1819 | 1186 | 1476 |
| LSTE-8P424 | (2) 40 | | 2084 | 1685 | 1827 | 2196 | 1500 | 1779 | 1525 | 1910 | 1282 | 1572 |
| LSTE-8P524 | (2) 50 | | 2232 | 1807 | 1959 | 2352 | 1611 | 1907 | 1637 | 2048 | 1378 | 1686 |
| LSTE-8P136 | (3) 30 | | 2462 | 1919 | 2114 | 2617 | 1670 | 2047 | 1703 | 2226 | 1386 | 1765 |
| LSTE-8P236 | (3) 40 | | 2725 | 2136 | 2346 | 2891 | 1863 | 2274 | 1899 | 2469 | 1547 | 1967 |
| LSTE-8P336 | (3) 40 | | 2988 | 2387 | 2603 | 3157 | 2108 | 2529 | 2145 | 2728 | 1778 | 2214 |
| LSTE-8P436 | (3) 40 | | 3126 | 2528 | 2741 | 3295 | 2250 | 2668 | 2288 | 2866 | 1923 | 2358 |
| LSTE-8P536 | (3) 50 | | 3348 | 2710 | 2938 | 3527 | 2416 | 2861 | 2456 | 3072 | 2067 | 2529 |

Note: For alternate selections and conditions other than those stated, consult your evapSe/lect selection program or local EVAPCO representative.

ENGINEERING DATA & DIMENSIONS



LARGE CENTRIFUGAL FAN MODELS

LSTE-8P112 TO 8P536

| MODEL NO. | WEIGHT (LBS.) | | NO. FANS | FAN MOTOR HP* | AIR FLOW CFM | DIMENSIONS | | | | CONNECTIONS (IN.) | | | | |
|------------|---------------|-----------|----------|---------------|--------------|------------|------------|-------|--------|-------------------|-----------|---------|-------|-----------|
| | SHIPPING | OPERATING | | | | H | P | C | J | WATER IN | WATER OUT | MAKE UP | DRAIN | OVER FLOW |
| LSTE-8P112 | 5,550 | 9,030 | 2 | 30 | 58,400 | 12' 6-3/8" | 11' 6-3/4" | 5' 3" | 7" | 8 | 8 | 2 | 2 | 3 |
| LSTE-8P212 | 5,710 | 9,190 | 2 | 40 | 63,800 | 12' 6-3/8" | 11' 6-3/4" | 5' 3" | 7" | 8 | 8 | 2 | 2 | 3 |
| LSTE-8P312 | 6,050 | 9,530 | 2 | 40 | 62,100 | 13' 6-3/8" | 12' 6-3/4" | 6' 3" | 7" | 8 | 8 | 2 | 2 | 3 |
| LSTE-8P412 | 6,380 | 9,860 | 2 | 40 | 60,100 | 14' 6-3/8" | 13' 6-3/4" | 7' 3" | 7" | 8 | 8 | 2 | 2 | 3 |
| LSTE-8P512 | 6,390 | 9,870 | 2 | 50 | 64,300 | 14' 6-3/8" | 13' 6-3/4" | 7' 3" | 7" | 8 | 8 | 2 | 2 | 3 |
| LSTE-8P118 | 8,180 | 13,530 | 3 | 40 | 84,800 | 12' 6-3/8" | 11' 6-3/4" | 5' 3" | 7" | 8 | 8 | 2 | 2 | 3 |
| LSTE-8P218 | 8,190 | 13,540 | 3 | 50 | 90,800 | 12' 6-3/8" | 11' 6-3/4" | 5' 3" | 7" | 8 | 8 | 2 | 2 | 3 |
| LSTE-8P318 | 8,210 | 13,560 | 3 | 40 | 82,600 | 13' 6-3/8" | 12' 6-3/4" | 6' 3" | 7" | 8 | 8 | 2 | 2 | 3 |
| LSTE-8P418 | 8,220 | 13,570 | 3 | 50 | 88,500 | 13' 6-3/8" | 12' 6-3/4" | 6' 3" | 7" | 8 | 8 | 2 | 2 | 3 |
| LSTE-8P518 | 8,440 | 13,790 | 3 | 60 | 93,500 | 13' 6-3/8" | 12' 6-3/4" | 6' 3" | 7" | 8 | 8 | 2 | 2 | 3 |
| LSTE-8P618 | 9,380 | 14,730 | 3 | 60 | 90,600 | 14' 6-3/8" | 13' 6-3/4" | 7' 3" | 7" | 8 | 8 | 2 | 2 | 3 |
| LSTE-8P124 | 11,470 | 18,660 | 4 | (2) 25 | 107,500 | 13' 6-3/8" | 12' 6-3/4" | 6' 3" | 7-7/8" | (2)8 | 10 | 2 | 2 | 3 |
| LSTE-8P224 | 11,210 | 18,400 | 4 | (2) 40 | 127,500 | 12' 6-3/8" | 11' 6-3/4" | 5' 3" | 7-7/8" | (2)8 | 10 | 2 | 2 | 3 |
| LSTE-8P324 | 11,890 | 19,080 | 4 | (2) 40 | 124,200 | 13' 6-3/8" | 12' 6-3/4" | 6' 3" | 7-7/8" | (2)8 | 10 | 2 | 2 | 3 |
| LSTE-8P424 | 12,550 | 19,740 | 4 | (2) 40 | 120,100 | 14' 6-3/8" | 13' 6-3/4" | 7' 3" | 7-7/8" | (2)8 | 10 | 2 | 2 | 3 |
| LSTE-8P524 | 12,570 | 19,760 | 4 | (2) 50 | 128,600 | 14' 6-3/8" | 13' 6-3/4" | 7' 3" | 7-7/8" | (2)8 | 10 | 2 | 2 | 3 |
| LSTE-8P136 | 16,710 | 27,240 | 6 | (3) 30 | 175,200 | 12' 6-3/8" | 11' 6-3/4" | 5' 3" | 7" | (3)8 | (2)8 | (2)2 | (2)2 | (2)3 |
| LSTE-8P236 | 17,190 | 27,720 | 6 | (3) 40 | 191,300 | 12' 6-3/8" | 11' 6-3/4" | 5' 3" | 7" | (3)8 | (2)8 | (2)2 | (2)2 | (2)3 |
| LSTE-8P336 | 18,210 | 28,740 | 6 | (3) 40 | 186,300 | 13' 6-3/8" | 12' 6-3/4" | 6' 3" | 7" | (3)8 | (2)8 | (2)2 | (2)2 | (2)3 |
| LSTE-8P436 | 19,200 | 29,730 | 6 | (3) 40 | 180,200 | 14' 6-3/8" | 13' 6-3/4" | 7' 3" | 7" | (3)8 | (2)8 | (2)2 | (2)2 | (2)3 |
| LSTE-8P536 | 19,230 | 29,760 | 6 | (3) 50 | 193,000 | 14' 6-3/8" | 13' 6-3/4" | 7' 3" | 7" | (3)8 | (2)8 | (2)2 | (2)2 | (2)3 |

NOTES:

1. An adequately sized bleed line must be installed in the cooling tower system to prevent build-up of impurities in the recirculated water.
 2. Connections smaller than 6" are MPT. Connections 6" or larger are Beveled For Weld/Grooved for mechanical coupling (BFW/Grooved).
 3. Do not use catalog drawings for certified prints. Dimensions are subject to change.
- * For external static pressure up to 1/2", use next size fan motor.



LSTE

THERMAL PERFORMANCE

MODELS LSTE-10112 TO 10636

Thermal performance certified by the Cooling Technology Institute (CTI) in accordance with CTI Standard STD-201



To Make a Selection:

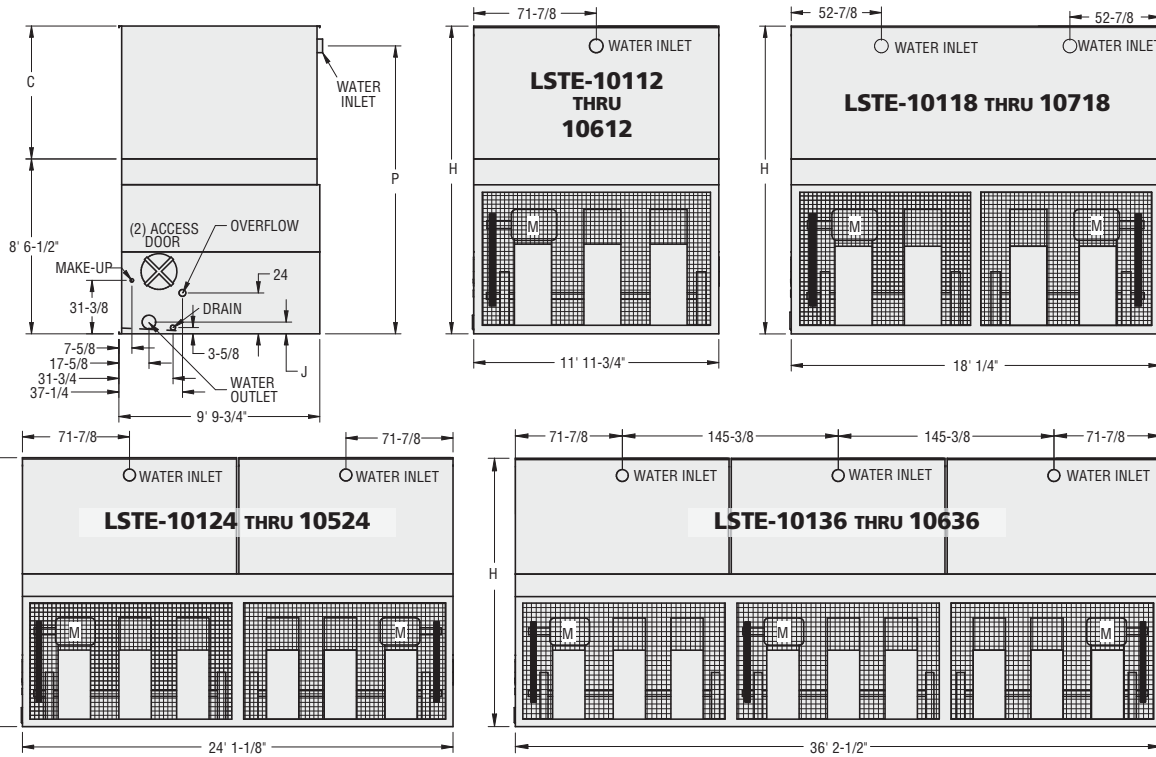
Locate the column with the desired operating temperature conditions. Read down the column until you find the GPM equal to or greater than the flow required. Read horizontally to the left to find the model number of the unit that will perform the duty.

| MODEL NO. | MOTOR HP | COOLING CAPACITY IN GPM | | | | | | | | | | |
|------------|----------|-------------------------|------|------|------|------|------|------|------|------|------|------|
| | | TEMP °F | 90° | 95° | 90° | 95° | 90° | 95° | 90° | 95° | 95° | 100° |
| | | EWT | 80° | 80° | 80° | 80° | 80° | 80° | 80° | 80° | 85° | 85° |
| | | LWT | 66° | 66° | 68° | 68° | 70° | 70° | 72° | 72° | 75° | 75° |
| WB | 66° | 66° | 68° | 68° | 70° | 70° | 72° | 72° | 75° | 75° | | |
| LSTE-10112 | (1) 30 | | 1246 | 977 | 1151 | 902 | 1022 | 809 | 891 | 720 | 1165 | 921 |
| LSTE-10212 | (1) 40 | | 1366 | 1076 | 1265 | 994 | 1125 | 894 | 983 | 796 | 1279 | 1016 |
| LSTE-10312 | (1) 40 | | 1425 | 1135 | 1323 | 1054 | 1183 | 954 | 1043 | 857 | 1337 | 1075 |
| LSTE-10412 | (1) 50 | | 1466 | 1159 | 1358 | 1071 | 1210 | 964 | 1059 | 860 | 1374 | 1094 |
| LSTE-10512 | (1) 50 | | 1525 | 1217 | 1417 | 1130 | 1268 | 1025 | 1118 | 921 | 1432 | 1152 |
| LSTE-10612 | (1) 60 | | 1612 | 1288 | 1498 | 1196 | 1342 | 1085 | 1183 | 976 | 1514 | 1220 |
| LSTE-10118 | (2) 25 | | 1724 | 1324 | 1582 | 1212 | 1390 | 1076 | 1197 | 947 | 1602 | 1241 |
| LSTE-10218 | (2) 30 | | 1836 | 1415 | 1689 | 1297 | 1485 | 1154 | 1281 | 1016 | 1710 | 1328 |
| LSTE-10318 | (2) 25 | | 1892 | 1484 | 1748 | 1370 | 1552 | 1229 | 1354 | 1093 | 1769 | 1399 |
| LSTE-10418 | (2) 30 | | 2006 | 1578 | 1856 | 1457 | 1649 | 1309 | 1440 | 1165 | 1878 | 1488 |
| LSTE-10518 | (2) 30 | | 2094 | 1667 | 1943 | 1548 | 1738 | 1401 | 1531 | 1258 | 1965 | 1579 |
| LSTE-10618 | (2) 40 | | 2197 | 1736 | 2036 | 1605 | 1813 | 1444 | 1586 | 1288 | 2059 | 1639 |
| LSTE-10718 | (2) 40 | | 2287 | 1824 | 2124 | 1694 | 1901 | 1536 | 1676 | 1380 | 2147 | 1727 |
| LSTE-10124 | (2) 40 | | 2505 | 1936 | 2306 | 1777 | 2031 | 1581 | 1754 | 1392 | 2335 | 1818 |
| LSTE-10224 | (2) 40 | | 2732 | 2153 | 2529 | 1989 | 2250 | 1789 | 1965 | 1592 | 2558 | 2031 |
| LSTE-10324 | (2) 50 | | 2932 | 2318 | 2717 | 2143 | 2420 | 1929 | 2118 | 1720 | 2747 | 2188 |
| LSTE-10424 | (2) 50 | | 3050 | 2434 | 2833 | 2261 | 2536 | 2049 | 2236 | 1842 | 2865 | 2305 |
| LSTE-10524 | (2) 60 | | 3224 | 2576 | 2996 | 2393 | 2684 | 2170 | 2367 | 1952 | 3029 | 2440 |
| LSTE-10136 | (3) 40 | | 3758 | 2904 | 3459 | 2665 | 3046 | 2371 | 2631 | 2087 | 3502 | 2727 |
| LSTE-10236 | (3) 40 | | 4099 | 3229 | 3794 | 2983 | 3375 | 2683 | 2948 | 2388 | 3837 | 3047 |
| LSTE-10336 | (3) 50 | | 4398 | 3477 | 4075 | 3214 | 3630 | 2893 | 3177 | 2580 | 4121 | 3282 |
| LSTE-10436 | (3) 50 | | 4576 | 3651 | 4250 | 3391 | 3804 | 3074 | 3354 | 2762 | 4297 | 3457 |
| LSTE-10536 | (3) 60 | | 4836 | 3864 | 4494 | 3589 | 4025 | 3254 | 3550 | 2928 | 4543 | 3660 |
| LSTE-10636 | (3) 75 | | 5173 | 4140 | 4809 | 3847 | 4311 | 3490 | 3806 | 3142 | 4861 | 3923 |

| MODEL NO. | MOTOR HP | COOLING CAPACITY IN GPM | | | | | | | | | | |
|------------|----------|-------------------------|------|------|------|------|------|------|------|------|------|------|
| | | TEMP °F | 95° | 100° | 95° | 97° | 100° | 102° | 95° | 97° | 100° | 102° |
| | | EWT | 85° | 85° | 85° | 87° | 85° | 87° | 85° | 87° | 85° | 87° |
| | | LWT | 76° | 76° | 78° | 78° | 78° | 78° | 78° | 80° | 80° | 80° |
| WB | 76° | 76° | 78° | 78° | 78° | 78° | 78° | 80° | 80° | 80° | 80° | |
| LSTE-10112 | (1) 30 | | 1098 | 873 | 953 | 1162 | 768 | 926 | 782 | 1001 | 647 | 808 |
| LSTE-10212 | (1) 40 | | 1207 | 962 | 1050 | 1276 | 849 | 1021 | 864 | 1101 | 716 | 893 |
| LSTE-10312 | (1) 40 | | 1265 | 1023 | 1109 | 1334 | 910 | 1080 | 925 | 1160 | 777 | 953 |
| LSTE-10412 | (1) 50 | | 1298 | 1038 | 1131 | 1370 | 916 | 1099 | 933 | 1185 | 774 | 963 |
| LSTE-10512 | (1) 50 | | 1356 | 1097 | 1189 | 1429 | 977 | 1158 | 993 | 1243 | 835 | 1023 |
| LSTE-10612 | (1) 60 | | 1434 | 1161 | 1259 | 1511 | 1035 | 1226 | 1052 | 1316 | 886 | 1083 |
| LSTE-10118 | (2) 25 | | 1503 | 1169 | 1288 | 1598 | 1017 | 1247 | 1037 | 1359 | 844 | 1075 |
| LSTE-10218 | (2) 30 | | 1604 | 1251 | 1378 | 1705 | 1089 | 1335 | 1111 | 1451 | 904 | 1152 |
| LSTE-10318 | (2) 25 | | 1668 | 1325 | 1447 | 1764 | 1167 | 1406 | 1188 | 1519 | 983 | 1227 |
| LSTE-10418 | (2) 30 | | 1771 | 1410 | 1539 | 1873 | 1243 | 1496 | 1265 | 1615 | 1048 | 1307 |
| LSTE-10518 | (2) 30 | | 1859 | 1502 | 1629 | 1960 | 1335 | 1586 | 1358 | 1704 | 1140 | 1399 |
| LSTE-10618 | (2) 40 | | 1944 | 1554 | 1695 | 2054 | 1373 | 1647 | 1397 | 1776 | 1159 | 1442 |
| LSTE-10718 | (2) 40 | | 2032 | 1644 | 1782 | 2142 | 1464 | 1735 | 1489 | 1864 | 1251 | 1534 |
| LSTE-10124 | (2) 40 | | 2194 | 1714 | 1885 | 2328 | 1493 | 1827 | 1523 | 1985 | 1239 | 1578 |
| LSTE-10224 | (2) 40 | | 2415 | 1925 | 2100 | 2552 | 1697 | 2041 | 1728 | 2203 | 1431 | 1786 |
| LSTE-10324 | (2) 50 | | 2595 | 2075 | 2262 | 2741 | 1833 | 2199 | 1866 | 2371 | 1548 | 1926 |
| LSTE-10424 | (2) 50 | | 2712 | 2193 | 2378 | 2858 | 1954 | 2315 | 1987 | 2487 | 1670 | 2046 |
| LSTE-10524 | (2) 60 | | 2868 | 2322 | 2517 | 3021 | 2070 | 2451 | 2104 | 2631 | 1772 | 2167 |
| LSTE-10136 | (3) 40 | | 3291 | 2570 | 2827 | 3493 | 2239 | 2741 | 2284 | 2978 | 1858 | 2367 |
| LSTE-10236 | (3) 40 | | 3622 | 2887 | 3150 | 3828 | 2546 | 3062 | 2593 | 3304 | 2147 | 2679 |
| LSTE-10336 | (3) 50 | | 3893 | 3113 | 3393 | 4111 | 2749 | 3298 | 2798 | 3556 | 2323 | 2889 |
| LSTE-10436 | (3) 50 | | 4067 | 3290 | 3567 | 4287 | 2931 | 3473 | 2980 | 3730 | 2505 | 3070 |
| LSTE-10536 | (3) 60 | | 4302 | 3483 | 3776 | 4532 | 3105 | 3677 | 3156 | 3947 | 2658 | 3250 |
| LSTE-10636 | (3) 75 | | 4605 | 3734 | 4046 | 4849 | 3330 | 3940 | 3384 | 4228 | 2854 | 3485 |

Note: For alternate selections and conditions other than those stated, consult your evapSelect selection program or local EVAPCO representative.

ENGINEERING DATA & DIMENSIONS



LARGE CENTRIFUGAL FAN MODELS

LSTE-10112 TO 10636

| MODEL NO. | WEIGHT (LBS.) | | NO. FANS | FAN MOTOR HP* | AIR FLOW CFM | DIMENSIONS | | | | CONNECTIONS (IN.) | | | | |
|------------|---------------|-----------|----------|---------------|--------------|------------|----------|-----------|--------|-------------------|-----------|---------|-------|-----------|
| | SHIPPING | OPERATING | | | | H | P | C | J | WATER IN | WATER OUT | MAKE UP | DRAIN | OVER FLOW |
| LSTE-10112 | 8,030 | 13,940 | 3 | 30 | 69,000 | 15' 3/8" | 14' 3/4" | 6' 5-7/8" | 7-1/4" | 8" | 8" | 2" | 3" | 4" |
| LSTE-10212 | 8,190 | 14,100 | 3 | 40 | 75,600 | 15' 3/8" | 14' 3/4" | 6' 5-7/8" | 7-1/4" | 8" | 8" | 2" | 3" | 4" |
| LSTE-10312 | 8,600 | 14,510 | 3 | 40 | 73,800 | 16' 3/8" | 15' 3/4" | 7' 5-7/8" | 7-1/4" | 8" | 8" | 2" | 3" | 4" |
| LSTE-10412 | 8,200 | 14,110 | 3 | 50 | 81,000 | 15' 3/8" | 14' 3/4" | 6' 5-7/8" | 7-1/4" | 8" | 8" | 2" | 3" | 4" |
| LSTE-10512 | 8,610 | 14,520 | 3 | 50 | 79,200 | 16' 3/8" | 15' 3/4" | 7' 5-7/8" | 7-1/4" | 8" | 8" | 2" | 3" | 4" |
| LSTE-10612 | 8,830 | 14,740 | 3 | 60 | 83,900 | 16' 3/8" | 15' 3/4" | 7' 5-7/8" | 7-1/4" | 8" | 8" | 2" | 3" | 4" |
| LSTE-10118 | 11,460 | 20,420 | 4 | (2) 25 | 110,600 | 14' 3/8" | 13' 3/4" | 5' 5-7/8" | 8-1/8" | (2)8" | 10" | 2" | 3" | 4" |
| LSTE-10218 | 11,560 | 20,520 | 4 | (2) 30 | 117,100 | 14' 3/8" | 13' 3/4" | 5' 5-7/8" | 8-1/8" | (2)8" | 10" | 2" | 3" | 4" |
| LSTE-10318 | 12,080 | 21,040 | 4 | (2) 25 | 107,500 | 15' 3/8" | 14' 3/4" | 6' 5-7/8" | 8-1/8" | (2)8" | 10" | 2" | 3" | 4" |
| LSTE-10418 | 12,180 | 21,140 | 4 | (2) 30 | 113,900 | 15' 3/8" | 14' 3/4" | 6' 5-7/8" | 8-1/8" | (2)8" | 10" | 2" | 3" | 4" |
| LSTE-10518 | 12,510 | 21,770 | 4 | (2) 30 | 111,300 | 16' 3/8" | 15' 3/4" | 7' 5-7/8" | 8-1/8" | (2)8" | 10" | 2" | 3" | 4" |
| LSTE-10618 | 12,500 | 21,460 | 4 | (2) 40 | 124,700 | 15' 3/8" | 14' 3/4" | 6' 5-7/8" | 8-1/8" | (2)8" | 10" | 2" | 3" | 4" |
| LSTE-10718 | 13,130 | 22,090 | 4 | (2) 40 | 121,900 | 16' 3/8" | 15' 3/4" | 7' 5-7/8" | 8-1/8" | (2)8" | 10" | 2" | 3" | 4" |
| LSTE-10124 | 15,220 | 27,400 | 6 | (2) 40 | 155,400 | 14' 3/8" | 13' 3/4" | 5' 5-7/8" | 8-1/8" | (2)8" | 10" | 2" | 3" | 4" |
| LSTE-10224 | 16,040 | 28,220 | 6 | (2) 40 | 151,200 | 15' 3/8" | 14' 3/4" | 6' 5-7/8" | 8-1/8" | (2)8" | 10" | 2" | 3" | 4" |
| LSTE-10324 | 16,060 | 28,240 | 6 | (2) 50 | 162,000 | 15' 3/8" | 14' 3/4" | 6' 5-7/8" | 8-1/8" | (2)8" | 10" | 2" | 3" | 4" |
| LSTE-10424 | 16,880 | 29,060 | 6 | (2) 50 | 158,400 | 16' 3/8" | 15' 3/4" | 7' 5-7/8" | 8-1/8" | (2)8" | 10" | 2" | 3" | 4" |
| LSTE-10524 | 17,310 | 29,490 | 6 | (2) 60 | 163,600 | 16' 3/8" | 15' 3/4" | 7' 5-7/8" | 8-1/8" | (2)8" | 10" | 2" | 3" | 4" |
| LSTE-10136 | 23,880 | 41,240 | 9 | (3) 40 | 233,100 | 14' 3/8" | 13' 3/4" | 5' 5-7/8" | 8-1/8" | (3)8" | (2)10" | 3" | 3" | 4" |
| LSTE-10236 | 25,110 | 42,470 | 9 | (3) 40 | 226,800 | 15' 3/8" | 14' 3/4" | 6' 5-7/8" | 8-1/8" | (3)8" | (2)10" | 3" | 3" | 4" |
| LSTE-10336 | 25,140 | 42,500 | 9 | (3) 50 | 243,000 | 15' 3/8" | 14' 3/4" | 6' 5-7/8" | 8-1/8" | (3)8" | (2)10" | 3" | 3" | 4" |
| LSTE-10436 | 26,370 | 43,730 | 9 | (3) 50 | 237,700 | 16' 3/8" | 15' 3/4" | 7' 5-7/8" | 8-1/8" | (3)8" | (2)10" | 3" | 3" | 4" |
| LSTE-10536 | 27,020 | 44,380 | 9 | (3) 60 | 251,800 | 16' 3/8" | 15' 3/4" | 7' 5-7/8" | 8-1/8" | (3)8" | (2)10" | 3" | 3" | 4" |
| LSTE-10636 | 27,320 | 44,680 | 9 | (3) 75 | 269,000 | 16' 3/8" | 15' 3/4" | 7' 5-7/8" | 8-1/8" | (3)8" | (2)10" | 3" | 3" | 4" |

NOTES:

1. An adequately sized bleed line must be installed in the cooling tower system to prevent build-up of impurities in the recirculated water.
 2. Connections smaller than 6" are MPT. Connections 6" or larger are Beveled For Weld/Grooved for mechanical coupling (BFW/Grooved).
 3. Do not use catalog drawings for certified prints. Dimensions are subject to change.
- * For external static pressure up to 1/2", use next size fan motor.



THERMAL PERFORMANCE

MODELS LPT-316 TO 5712

Thermal performance certified by the Cooling Technology Institute (CTI) in accordance with CTI Standard STD-201



To Make a Selection:

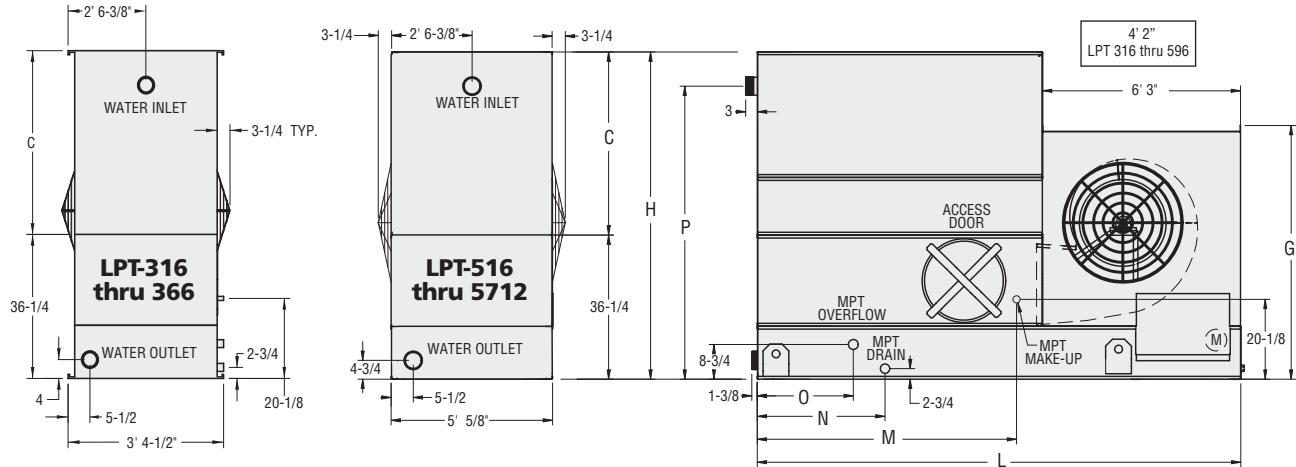
Locate the column with the desired operating temperature conditions. Read down the column until you find the GPM equal to or greater than the flow required. Read horizontally to the left to find the model number of the unit that will perform the duty.

| MODEL NO. | MOTOR HP | COOLING CAPACITY IN GPM | | | | | | | | | | |
|-----------|----------|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| | | TEMP °F | 90° | 95° | 90° | 95° | 90° | 95° | 90° | 95° | 95° | 100° |
| | | EWT | 80° | 80° | 80° | 80° | 80° | 80° | 80° | 80° | 85° | 85° |
| | | LWT | 66° | 66° | 68° | 68° | 70° | 70° | 72° | 72° | 75° | 75° |
| LPT-316 | 1.5 | | 110 | 83 | 100 | 76 | 88 | 67 | 75 | 58 | 102 | 77 |
| LPT-326 | 2 | | 136 | 104 | 125 | 95 | 109 | 84 | 93 | 73 | 126 | 97 |
| LPT-336 | 3 | | 154 | 118 | 142 | 108 | 124 | 96 | 107 | 84 | 143 | 111 |
| LPT-346 | 3 | | 171 | 132 | 157 | 121 | 138 | 108 | 119 | 96 | 159 | 124 |
| LPT-356 | 5 | | 198 | 153 | 182 | 141 | 161 | 126 | 139 | 111 | 185 | 144 |
| LPT-366 | 7.5 | | 221 | 173 | 204 | 159 | 181 | 142 | 157 | 126 | 207 | 163 |
| LPT-516 | 3 | | 232 | 177 | 213 | 162 | 187 | 144 | 160 | 126 | 216 | 166 |
| LPT-526 | 5 | | 272 | 208 | 249 | 191 | 219 | 170 | 189 | 149 | 252 | 196 |
| LPT-536 | 3 | | 282 | 222 | 261 | 205 | 232 | 184 | 202 | 165 | 264 | 209 |
| LPT-546 | 5 | | 298 | 231 | 274 | 212 | 242 | 189 | 209 | 168 | 278 | 217 |
| LPT-556 | 7.5 | | 307 | 236 | 282 | 217 | 248 | 193 | 214 | 170 | 286 | 222 |
| LPT-566 | 7.5 | | 326 | 254 | 301 | 233 | 266 | 208 | 230 | 185 | 305 | 238 |
| LPT-576 | 10 | | 355 | 278 | 328 | 255 | 290 | 228 | 252 | 202 | 332 | 261 |
| LPT-586 | 7.5 | | 363 | 289 | 337 | 267 | 301 | 241 | 264 | 216 | 341 | 273 |
| LPT-596 | 10 | | 392 | 313 | 365 | 290 | 326 | 262 | 287 | 235 | 369 | 296 |
| LPT-519 | 10 | | 406 | 311 | 372 | 285 | 326 | 253 | 281 | 222 | 377 | 292 |
| LPT-529 | 15 | | 459 | 352 | 421 | 323 | 370 | 288 | 319 | 254 | 426 | 331 |
| LPT-539 | 15 | | 488 | 379 | 450 | 348 | 397 | 311 | 344 | 276 | 455 | 356 |
| LPT-549 | 20 | | 516 | 403 | 477 | 371 | 422 | 331 | 366 | 294 | 483 | 379 |
| LPT-559 | 15 | | 539 | 427 | 500 | 396 | 446 | 357 | 391 | 319 | 506 | 404 |
| LPT-569 | 20 | | 585 | 467 | 544 | 432 | 487 | 390 | 428 | 349 | 550 | 441 |
| LPT-5112 | 15 | | 542 | 418 | 498 | 384 | 438 | 342 | 379 | 303 | 505 | 392 |
| LPT-5212 | 20 | | 596 | 461 | 548 | 423 | 483 | 378 | 418 | 335 | 555 | 433 |
| LPT-5312 | 25 | | 640 | 497 | 590 | 456 | 521 | 408 | 451 | 361 | 597 | 467 |
| LPT-5412 | 30 | | 678 | 528 | 626 | 485 | 553 | 434 | 479 | 384 | 633 | 496 |
| LPT-5512 | 25 | | 686 | 542 | 636 | 502 | 566 | 452 | 496 | 404 | 643 | 512 |
| LPT-5612 | 30 | | 716 | 568 | 664 | 525 | 592 | 474 | 519 | 423 | 672 | 536 |
| LPT-5712 | 30 | | 757 | 607 | 704 | 564 | 631 | 511 | 558 | 460 | 712 | 575 |

| MODEL NO. | MOTOR HP | COOLING CAPACITY IN GPM | | | | | | | | | | |
|-----------|----------|-------------------------|-----|------|-----|-----|------|------|-----|-----|------|------|
| | | TEMP °F | 95° | 100° | 95° | 97° | 100° | 102° | 95° | 97° | 100° | 102° |
| | | EWT | 85° | 85° | 85° | 87° | 85° | 87° | 85° | 87° | 85° | 87° |
| | | LWT | 76° | 76° | 78° | 78° | 78° | 78° | 80° | 80° | 80° | 80° |
| LPT-316 | 1.5 | | 95 | 73 | 81 | 102 | 63 | 78 | 64 | 85 | 53 | 67 |
| LPT-326 | 2 | | 118 | 91 | 101 | 126 | 79 | 97 | 81 | 107 | 65 | 84 |
| LPT-336 | 3 | | 134 | 104 | 115 | 143 | 90 | 111 | 92 | 121 | 74 | 96 |
| LPT-346 | 3 | | 149 | 117 | 128 | 159 | 102 | 124 | 104 | 135 | 86 | 108 |
| LPT-356 | 5 | | 174 | 136 | 149 | 184 | 119 | 145 | 122 | 157 | 100 | 126 |
| LPT-366 | 7.5 | | 195 | 154 | 168 | 206 | 135 | 163 | 137 | 177 | 113 | 142 |
| LPT-516 | 3 | | 202 | 156 | 173 | 215 | 136 | 167 | 138 | 182 | 112 | 144 |
| LPT-526 | 5 | | 237 | 184 | 203 | 252 | 160 | 197 | 164 | 214 | 133 | 170 |
| LPT-536 | 3 | | 249 | 198 | 216 | 263 | 175 | 210 | 178 | 227 | 149 | 184 |
| LPT-546 | 5 | | 261 | 205 | 225 | 277 | 179 | 218 | 183 | 236 | 150 | 189 |
| LPT-556 | 7.5 | | 268 | 209 | 230 | 285 | 183 | 223 | 186 | 242 | 151 | 193 |
| LPT-566 | 7.5 | | 286 | 225 | 247 | 304 | 197 | 240 | 201 | 260 | 165 | 208 |
| LPT-576 | 10 | | 313 | 247 | 271 | 331 | 217 | 262 | 221 | 284 | 181 | 228 |
| LPT-586 | 7.5 | | 323 | 259 | 282 | 340 | 229 | 274 | 233 | 295 | 195 | 241 |
| LPT-596 | 10 | | 349 | 281 | 306 | 368 | 249 | 298 | 254 | 320 | 212 | 262 |
| LPT-519 | 10 | | 353 | 275 | 302 | 375 | 239 | 293 | 244 | 319 | 198 | 253 |
| LPT-529 | 15 | | 400 | 312 | 343 | 425 | 272 | 332 | 278 | 361 | 226 | 288 |
| LPT-539 | 15 | | 428 | 336 | 369 | 454 | 295 | 358 | 300 | 388 | 247 | 311 |
| LPT-549 | 20 | | 455 | 358 | 392 | 481 | 314 | 381 | 320 | 413 | 263 | 331 |
| LPT-559 | 15 | | 478 | 383 | 417 | 504 | 339 | 406 | 345 | 437 | 288 | 356 |
| LPT-569 | 20 | | 520 | 419 | 456 | 548 | 372 | 443 | 378 | 477 | 316 | 390 |
| LPT-5112 | 15 | | 473 | 370 | 407 | 503 | 324 | 394 | 331 | 428 | 272 | 342 |
| LPT-5212 | 20 | | 521 | 409 | 449 | 554 | 358 | 435 | 365 | 472 | 300 | 377 |
| LPT-5312 | 25 | | 562 | 441 | 484 | 596 | 386 | 469 | 394 | 509 | 324 | 407 |
| LPT-5412 | 30 | | 596 | 469 | 514 | 631 | 411 | 499 | 419 | 541 | 344 | 433 |
| LPT-5512 | 25 | | 607 | 486 | 529 | 641 | 430 | 515 | 438 | 555 | 365 | 452 |
| LPT-5612 | 30 | | 635 | 509 | 554 | 670 | 451 | 539 | 458 | 580 | 383 | 473 |
| LPT-5712 | 30 | | 674 | 547 | 593 | 710 | 488 | 577 | 496 | 619 | 418 | 510 |

Note: For alternate selections and conditions other than those stated, consult your evapSe/lect selection program or local EVAPCO representative.

ENGINEERING DATA & DIMENSIONS



LOW PROFILE COOLING TOWERS

LPT-316 to 5712

| MODEL NO. | WEIGHT (LBS.) | | NO. FANS | FAN MOTOR HP* | AIR FLOW CFM | DIMENSIONS | | | | | | | CONNECTIONS (IN.) | | | | | |
|-----------|---------------|-----------|----------|---------------|--------------|------------|------------|-----------|------------|------------|-----------|------------|-------------------|----------|-----------|---------|-----------|---|
| | SHIPPING | OPERATING | | | | H | L | P | C | O | N | M | G | WATER IN | WATER OUT | MAKE UP | OVER FLOW | |
| LPT-316 | 1,510 | 2,490 | 1 | 1.5 | 7,020 | 6' 10-1/2" | 10' 2" | 6' 1-7/8" | 3' 10-1/4" | 2' 1/4" | 2' 8-1/4" | 5' 6" | 5' 3-7/8" | 4 | 4 | 1 | 2 | 2 |
| LPT-326 | 1,520 | 2,490 | 1 | 2 | 8,850 | 6' 10-1/2" | 10' 2" | 6' 1-7/8" | 3' 10-1/4" | 2' 1/4" | 2' 8-1/4" | 5' 6" | 5' 3-7/8" | 4 | 4 | 1 | 2 | 2 |
| LPT-336 | 1,530 | 2,510 | 1 | 3 | 10,130 | 6' 10-1/2" | 10' 2" | 6' 1-7/8" | 3' 10-1/4" | 2' 1/4" | 2' 8-1/4" | 5' 6" | 5' 3-7/8" | 4 | 4 | 1 | 2 | 2 |
| LPT-346 | 1,620 | 2,590 | 1 | 3 | 9,940 | 6' 10-1/2" | 10' 2" | 6' 1-7/8" | 3' 10-1/4" | 2' 1/4" | 2' 8-1/4" | 5' 6" | 5' 3-7/8" | 4 | 4 | 1 | 2 | 2 |
| LPT-356 | 1,630 | 2,600 | 1 | 5 | 11,780 | 6' 10-1/2" | 10' 2" | 6' 1-7/8" | 3' 10-1/4" | 2' 1/4" | 2' 8-1/4" | 5' 6" | 5' 3-7/8" | 4 | 4 | 1 | 2 | 2 |
| LPT-366 | 1,670 | 2,640 | 1 | 7.5 | 13,490 | 6' 10-1/2" | 10' 2" | 6' 1-7/8" | 3' 10-1/4" | 2' 1/4" | 2' 8-1/4" | 5' 6" | 5' 3-7/8" | 4 | 4 | 1 | 2 | 2 |
| LPT-516 | 2,320 | 4,040 | 1 | 3 | 14,880 | 6' 10-5/8" | 12' 3" | 6' 1-3/4" | 3' 10-3/8" | 2' 1/4" | 2' 9-3/4" | 5' 6" | 6' 7-3/4" | 4 | 4 | 1 | 2 | 3 |
| LPT-526 | 2,330 | 4,050 | 1 | 5 | 17,640 | 6' 10-5/8" | 12' 3" | 6' 1-3/4" | 3' 10-3/8" | 2' 1/4" | 2' 9-3/4" | 5' 6" | 6' 7-3/4" | 4 | 4 | 1 | 2 | 3 |
| LPT-536 | 2,470 | 4,190 | 1 | 3 | 14,560 | 7' 10-5/8" | 12' 3" | 7' 1-3/4" | 4' 10-3/8" | 2' 1/4" | 2' 9-3/4" | 5' 6" | 6' 7-3/4" | 4 | 4 | 1 | 2 | 3 |
| LPT-546 | 2,410 | 4,130 | 1 | 5 | 17,320 | 6' 10-5/8" | 12' 3" | 6' 1-3/4" | 3' 10-3/8" | 2' 1/4" | 2' 9-3/4" | 5' 6" | 6' 7-3/4" | 4 | 4 | 1 | 2 | 3 |
| LPT-556 | 2,370 | 4,100 | 1 | 7.5 | 20,210 | 6' 10-5/8" | 12' 3" | 6' 1-3/4" | 3' 10-3/8" | 2' 1/4" | 2' 9-3/4" | 5' 6" | 6' 7-3/4" | 4 | 4 | 1 | 2 | 3 |
| LPT-566 | 2,400 | 4,120 | 1 | 7.5 | 19,960 | 6' 10-5/8" | 12' 3" | 6' 1-3/4" | 3' 10-3/8" | 2' 1/4" | 2' 9-3/4" | 5' 6" | 6' 7-3/4" | 4 | 4 | 1 | 2 | 3 |
| LPT-576 | 2,480 | 4,210 | 1 | 10 | 21,300 | 6' 10-5/8" | 12' 3" | 6' 1-3/4" | 3' 10-3/8" | 2' 1/4" | 2' 9-3/4" | 5' 6" | 6' 7-3/4" | 4 | 4 | 1 | 2 | 3 |
| LPT-586 | 2,520 | 4,240 | 1 | 7.5 | 19,750 | 7' 10-5/8" | 12' 3" | 7' 1-3/4" | 4' 10-3/8" | 2' 1/4" | 2' 9-3/4" | 5' 6" | 6' 7-3/4" | 4 | 4 | 1 | 2 | 3 |
| LPT-596 | 2,560 | 4,280 | 1 | 10 | 21,300 | 7' 10-5/8" | 12' 3" | 7' 1-3/4" | 4' 10-3/8" | 2' 1/4" | 2' 9-3/4" | 5' 6" | 6' 7-3/4" | 4 | 4 | 1 | 2 | 3 |
| LPT-519 | 2,820 | 5,430 | 1 | 10 | 26,470 | 7' 5/8" | 15' 2-3/8" | 6' 2-7/8" | 4' 3/8" | 4' 11-5/8" | 5' 7-1/8" | 8' 5-3/8" | 6' 7-3/4" | 6 | 6 | 1 | 2 | 3 |
| LPT-529 | 2,930 | 5,530 | 1 | 15 | 30,290 | 7' 5/8" | 15' 2-3/8" | 6' 2-7/8" | 4' 3/8" | 4' 11-5/8" | 5' 7-1/8" | 8' 5-3/8" | 6' 7-3/4" | 6 | 6 | 1 | 2 | 3 |
| LPT-539 | 2,990 | 5,590 | 1 | 15 | 29,960 | 7' 5/8" | 15' 2-3/8" | 6' 2-7/8" | 4' 3/8" | 4' 11-5/8" | 5' 7-1/8" | 8' 5-3/8" | 6' 7-3/4" | 6 | 6 | 1 | 2 | 3 |
| LPT-549 | 3,000 | 5,600 | 1 | 20 | 32,110 | 7' 5/8" | 15' 2-3/8" | 6' 2-7/8" | 4' 3/8" | 4' 11-5/8" | 5' 7-1/8" | 8' 5-3/8" | 6' 7-3/4" | 6 | 6 | 1 | 2 | 3 |
| LPT-559 | 3,170 | 5,770 | 1 | 15 | 29,590 | 8' 5/8" | 15' 2-3/8" | 7' 2-7/8" | 5' 3/8" | 4' 11-5/8" | 5' 7-1/8" | 8' 5-3/8" | 6' 7-3/4" | 6 | 6 | 1 | 2 | 3 |
| LPT-569 | 3,240 | 5,830 | 1 | 20 | 32,110 | 8' 5/8" | 15' 2-3/8" | 7' 2-7/8" | 5' 3/8" | 4' 11-5/8" | 5' 7-1/8" | 8' 5-3/8" | 6' 7-3/4" | 6 | 6 | 1 | 2 | 3 |
| LPT-5112 | 3,440 | 6,990 | 1 | 15 | 32,190 | 7' 5/8" | 18' 2-3/4" | 6' 2-7/8" | 4' 3/8" | 8" | 8' 7-1/2" | 11' 5-3/4" | 6' 7-3/4" | 6 | 6 | 1 | 2 | 3 |
| LPT-5212 | 3,450 | 7,010 | 1 | 20 | 35,460 | 7' 5/8" | 18' 2-3/4" | 6' 2-7/8" | 4' 3/8" | 8" | 8' 7-1/2" | 11' 5-3/4" | 6' 7-3/4" | 6 | 6 | 1 | 2 | 3 |
| LPT-5312 | 3,460 | 7,020 | 1 | 25 | 38,170 | 7' 5/8" | 18' 2-3/4" | 6' 2-7/8" | 4' 3/8" | 8" | 8' 7-1/2" | 11' 5-3/4" | 6' 7-3/4" | 6 | 6 | 1 | 2 | 3 |
| LPT-5412 | 3,490 | 7,040 | 1 | 30 | 40,550 | 7' 5/8" | 18' 2-3/4" | 6' 2-7/8" | 4' 3/8" | 8" | 8' 7-1/2" | 11' 5-3/4" | 6' 7-3/4" | 6 | 6 | 1 | 2 | 3 |
| LPT-5512 | 3,700 | 7,250 | 1 | 25 | 37,890 | 8' 5/8" | 18' 2-3/4" | 7' 2-7/8" | 5' 3/8" | 8" | 8' 7-1/2" | 11' 5-3/4" | 6' 7-3/4" | 6 | 6 | 1 | 2 | 3 |
| LPT-5612 | 3,720 | 7,270 | 1 | 30 | 40,280 | 8' 5/8" | 18' 2-3/4" | 7' 2-7/8" | 5' 3/8" | 8" | 8' 7-1/2" | 11' 5-3/4" | 6' 7-3/4" | 6 | 6 | 1 | 2 | 3 |
| LPT-5712 | 3,980 | 7,520 | 1 | 30 | 40,110 | 9' 5/8" | 18' 2-3/4" | 8' 2-7/8" | 6' 3/8" | 8" | 8' 7-1/2" | 11' 5-3/4" | 6' 7-3/4" | 6 | 6 | 1 | 2 | 3 |

Notes:

- 1) An adequately sized bleed line must be installed in the cooling tower system to prevent buildup of impurities in the recirculated water.
 - 2) Connections smaller than 6" are MPT. Connections 6" or larger are Beveled For Weld/Grooved for mechanical coupling (BFW/Grooved).
 - 3) Do not use catalog drawings for certified prints. Dimensions subject to change.
 - 4) For external static pressure up to 1/2", use next size fan motor.
- * One fan motor per unit.



LPT

THERMAL PERFORMANCE

MODELS LPT-819 TO 8812

Thermal performance certified by the Cooling Technology Institute (CTI) in accordance with CTI Standard STD-201



To Make a Selection:

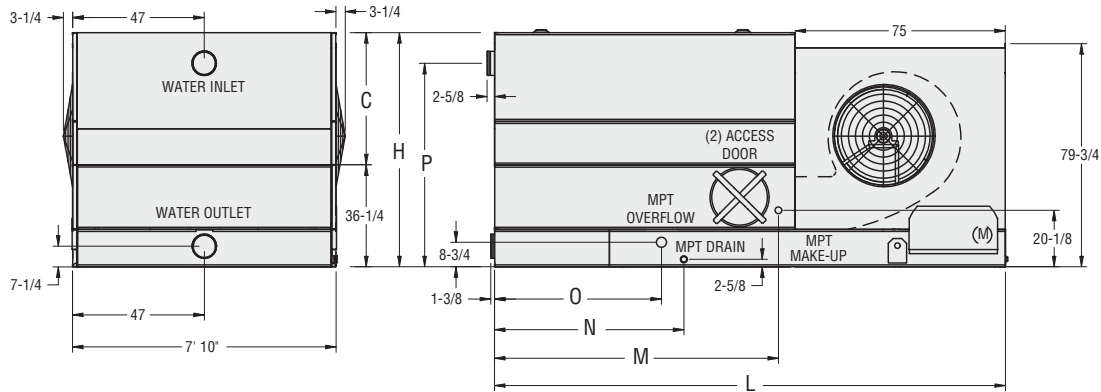
Locate the column with the desired operating temperature conditions. Read down the column until you find the GPM equal to or greater than the flow required. Read horizontally to the left to find the model number of the unit that will perform the duty.

| MODEL NO. | MOTOR HP | COOLING CAPACITY IN GPM | | | | | | | | | | |
|-----------|----------|-------------------------|------|------|------|-----|------|-----|-----|-----|------|------|
| | | TEMP °F | 90° | 95° | 90° | 95° | 90° | 95° | 90° | 95° | 95° | 100° |
| | | EWT | 80° | 80° | 80° | 80° | 80° | 80° | 80° | 80° | 85° | 85° |
| | | LWT | 66° | 66° | 68° | 68° | 70° | 70° | 72° | 72° | 75° | 75° |
| LPT-819 | 20 | | 725 | 556 | 665 | 511 | 584 | 455 | 504 | 401 | 673 | 522 |
| LPT-829 | 15 | | 751 | 583 | 692 | 535 | 610 | 478 | 529 | 423 | 700 | 547 |
| LPT-839 | 20 | | 772 | 599 | 711 | 551 | 628 | 492 | 544 | 436 | 720 | 563 |
| LPT-849 | 15 | | 801 | 633 | 742 | 586 | 661 | 528 | 579 | 472 | 751 | 598 |
| LPT-859 | 25 | | 819 | 639 | 756 | 588 | 669 | 526 | 581 | 466 | 765 | 601 |
| LPT-869 | 30 | | 844 | 660 | 780 | 608 | 691 | 543 | 600 | 482 | 790 | 621 |
| LPT-879 | 25 | | 885 | 704 | 822 | 652 | 734 | 588 | 644 | 526 | 831 | 665 |
| LPT-8112 | 25 | | 925 | 715 | 851 | 656 | 749 | 586 | 648 | 519 | 862 | 671 |
| LPT-8212 | 30 | | 999 | 774 | 920 | 711 | 811 | 635 | 703 | 563 | 931 | 727 |
| LPT-8312 | 40 | | 1053 | 818 | 971 | 752 | 857 | 672 | 743 | 596 | 983 | 769 |
| LPT-8412 | 30 | | 1064 | 840 | 986 | 777 | 878 | 700 | 768 | 626 | 997 | 794 |
| LPT-8512 | 50 | | 1129 | 883 | 1043 | 812 | 924 | 726 | 802 | 643 | 1056 | 830 |
| LPT-8612 | 40 | | 1163 | 923 | 1079 | 854 | 963 | 771 | 845 | 689 | 1091 | 872 |
| LPT-8712 | 50 | | 1239 | 987 | 1151 | 915 | 1030 | 826 | 905 | 739 | 1164 | 934 |
| LPT-8812 | 50 | | 1273 | 1020 | 1184 | 949 | 1062 | 861 | 939 | 775 | 1196 | 968 |

| MODEL NO. | MOTOR HP | COOLING CAPACITY IN GPM | | | | | | | | | | |
|-----------|----------|-------------------------|------|------|-----|------|------|------|-----|------|------|------|
| | | TEMP °F | 95° | 100° | 95° | 97° | 100° | 102° | 95° | 97° | 100° | 102° |
| | | EWT | 85° | 85° | 85° | 87° | 85° | 87° | 85° | 87° | 85° | 87° |
| | | LWT | 76° | 76° | 78° | 78° | 78° | 78° | 80° | 80° | 80° | 80° |
| LPT-819 | 20 | | 631 | 493 | 542 | 672 | 430 | 525 | 439 | 571 | 357 | 455 |
| LPT-829 | 15 | | 659 | 517 | 567 | 699 | 453 | 550 | 462 | 597 | 380 | 477 |
| LPT-839 | 20 | | 677 | 532 | 584 | 718 | 466 | 566 | 475 | 614 | 391 | 491 |
| LPT-849 | 15 | | 709 | 567 | 618 | 749 | 502 | 601 | 511 | 648 | 426 | 527 |
| LPT-859 | 25 | | 721 | 568 | 622 | 763 | 498 | 604 | 507 | 655 | 417 | 525 |
| LPT-869 | 30 | | 744 | 587 | 643 | 788 | 515 | 624 | 525 | 676 | 432 | 542 |
| LPT-879 | 25 | | 786 | 631 | 687 | 829 | 559 | 668 | 569 | 720 | 475 | 587 |
| LPT-8112 | 25 | | 809 | 634 | 696 | 859 | 555 | 674 | 565 | 732 | 465 | 585 |
| LPT-8212 | 30 | | 876 | 687 | 754 | 929 | 602 | 731 | 613 | 794 | 504 | 634 |
| LPT-8312 | 40 | | 924 | 727 | 797 | 980 | 637 | 773 | 649 | 838 | 534 | 671 |
| LPT-8412 | 30 | | 941 | 753 | 820 | 994 | 666 | 798 | 678 | 860 | 566 | 699 |
| LPT-8512 | 50 | | 995 | 785 | 860 | 1053 | 688 | 834 | 701 | 904 | 577 | 725 |
| LPT-8612 | 40 | | 1032 | 828 | 901 | 1088 | 733 | 876 | 746 | 944 | 623 | 770 |
| LPT-8712 | 50 | | 1102 | 887 | 964 | 1161 | 786 | 938 | 800 | 1009 | 668 | 825 |
| LPT-8812 | 50 | | 1134 | 921 | 998 | 1194 | 822 | 972 | 835 | 1042 | 705 | 860 |

Note: For alternate selections and conditions other than those stated, consult your evapSelect selection program or local EVAPCO representative.

ENGINEERING DATA & DIMENSIONS



LOW PROFILE COOLING TOWERS

LPT-819 to 8812

| MODEL NO. | WEIGHT (LBS.) | | NO. FANS | FAN MOTOR HP* | AIR FLOW CFM | DIMENSIONS | | | | | | CONNECTIONS (IN.) | | | | | |
|-----------|---------------|-----------|----------|---------------|--------------|------------|------------|---------|------------|------------|-----------|-------------------|----------|-----------|---------|-------|-----------|
| | SHIPPING | OPERATING | | | | H | L | P | C | O | N | M | WATER IN | WATER OUT | MAKE UP | DRAIN | OVER FLOW |
| LPT-819 | 4,220 | 7,620 | 2 | 20 | 49,270 | 6' 11-1/2" | 15' 2-3/8" | 6' 5/8" | 3' 11-1/4" | 4' 11-5/8" | 5' 7-5/8" | 8' 5-3/8" | 8 | 8 | 1 | 2 | 3 |
| LPT-829 | 4,290 | 7,690 | 2 | 15 | 41,610 | 6' 11-1/2" | 15' 2-3/8" | 6' 5/8" | 3' 11-1/4" | 4' 11-5/8" | 5' 7-5/8" | 8' 5-3/8" | 8 | 8 | 1 | 2 | 3 |
| LPT-839 | 4,220 | 7,620 | 2 | 20 | 46,850 | 6' 11-1/2" | 15' 2-3/8" | 6' 5/8" | 3' 11-1/4" | 4' 11-5/8" | 5' 7-5/8" | 8' 5-3/8" | 8 | 8 | 1 | 2 | 3 |
| LPT-849 | 4,460 | 7,860 | 2 | 15 | 41,020 | 7' 11-1/2" | 15' 2-3/8" | 7' 5/8" | 4' 11-1/4" | 4' 11-5/8" | 5' 7-5/8" | 8' 5-3/8" | 8 | 8 | 1 | 2 | 3 |
| LPT-859 | 4,320 | 7,720 | 2 | 25 | 49,340 | 6' 11-1/2" | 15' 2-3/8" | 6' 5/8" | 3' 11-1/4" | 4' 11-5/8" | 5' 7-5/8" | 8' 5-3/8" | 8 | 8 | 1 | 2 | 3 |
| LPT-869 | 4,340 | 7,740 | 2 | 30 | 51,110 | 6' 11-1/2" | 15' 2-3/8" | 6' 5/8" | 3' 11-1/4" | 4' 11-5/8" | 5' 7-5/8" | 8' 5-3/8" | 8 | 8 | 1 | 2 | 3 |
| LPT-879 | 4,490 | 7,890 | 2 | 25 | 48,680 | 7' 11-1/2" | 15' 2-3/8" | 7' 5/8" | 4' 11-1/4" | 4' 11-5/8" | 5' 7-5/8" | 8' 5-3/8" | 8 | 8 | 1 | 2 | 3 |
| LPT-8112 | 4,760 | 9,490 | 2 | 25 | 57,240 | 6' 11-1/2" | 18' 2-3/4" | 6' 5/8" | 3' 11-1/4" | 8' | 8' 7" | 11' 5-3/4" | 8 | 8 | 2 | 2 | 3 |
| LPT-8212 | 4,830 | 9,550 | 2 | 30 | 59,530 | 6' 11-1/2" | 18' 2-3/4" | 6' 5/8" | 3' 11-1/4" | 8' | 8' 7" | 11' 5-3/4" | 8 | 8 | 2 | 2 | 3 |
| LPT-8312 | 5,080 | 9,800 | 2 | 40 | 66,940 | 6' 11-1/2" | 18' 2-3/4" | 6' 5/8" | 3' 11-1/4" | 8' | 8' 7" | 11' 5-3/4" | 8 | 8 | 2 | 2 | 3 |
| LPT-8412 | 5,110 | 9,840 | 2 | 30 | 58,650 | 7' 11-1/2" | 18' 2-3/4" | 7' 5/8" | 4' 11-1/4" | 8' | 8' 7" | 11' 5-3/4" | 8 | 8 | 2 | 2 | 3 |
| LPT-8512 | 5,190 | 9,910 | 2 | 50 | 68,790 | 6' 11-1/2" | 18' 2-3/4" | 6' 5/8" | 3' 11-1/4" | 8' | 8' 7" | 11' 5-3/4" | 8 | 8 | 2 | 2 | 3 |
| LPT-8612 | 5,410 | 10,130 | 2 | 40 | 64,560 | 7' 11-1/2" | 18' 2-3/4" | 7' 5/8" | 4' 11-1/4" | 8' | 8' 7" | 11' 5-3/4" | 8 | 8 | 2 | 2 | 3 |
| LPT-8712 | 5,520 | 10,240 | 2 | 50 | 68,790 | 7' 11-1/2" | 18' 2-3/4" | 7' 5/8" | 4' 11-1/4" | 8' | 8' 7" | 11' 5-3/4" | 8 | 8 | 2 | 2 | 3 |
| LPT-8812 | 5,840 | 10,550 | 2 | 50 | 68,700 | 8' 11-1/2" | 18' 2-3/4" | 8' 5/8" | 5' 11-1/4" | 8' | 8' 7" | 11' 5-3/4" | 8 | 8 | 2 | 2 | 3 |


Notes:

- 1) An adequately sized bleed line must be installed in the cooling tower system to prevent buildup of impurities in the recirculated water.
 - 2) Connections smaller than 6" are MPT. Connections 6" or larger are Beveled For Weld/Grooved for mechanical coupling (BFW/Grooved).
 - 3) Do not use catalog drawings for certified prints. Dimensions subject to change.
 - 4) For external static pressure up to 1/2", use next size fan motor.
- * One fan motor per unit.



EVAPCO PRODUCTS ARE MANUFACTURED WORLDWIDE.



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-  EVAPCO Facilities

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