Series 1500 Cooling Tower

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BAC's Series 1500 Cooling Tower parallels the technology and successes of BAC's Series 3000 Cooling Tower in a compact footprint. The Series 1500 Cooling Tower is the industry's most serviceable unit without compromising performance and fit. Newly redesigned, the Series 1500 Cooling Tower offers Extreme Efficiency (XE) models which are at least two times more efficient than the minimum requirements established in ASHRAE 90.1 and further reduce the unit's operating cost. Its serviceability, superior winter operation, and single air intake make it an outstanding choice for new installations and an ideal replacement unit.

TriArmor® Corrosion Protection System

XE

BAC's Series 1500:
No Compromise

Single Air Intake, Induced Draft, Crossflow Capacities
92 to 747 Nominal Tons in a Single Cell
Up to 3,150 USGPM for Process Applications

- Easiest to Service and Maintain
- Low Energy Consumption
- Greatest Layout Flexibility
- Low Installation Cost
- Most Reliable Year-Round Operation

IBC Compliant

CTI CERTIFIED

Series 1500 Benefits

The Series 1500 Cooling Tower is the industry's most serviceable unit without compromising performance and fit. With expanded models almost doubling the capacity range and a performance increase of up to 13%, the Series 1500 Cooling Tower provides an excellent solution for all your application needs.

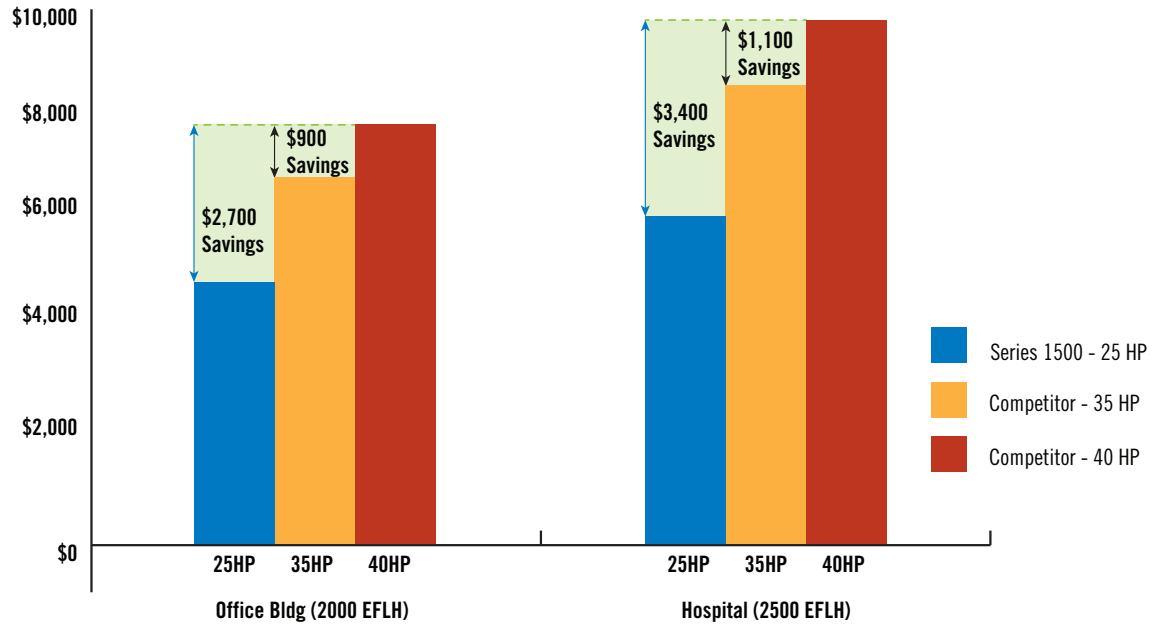
Reduced Energy Consumption

- Performance increase of up to 13%
- Meets or exceeds ASHRAE 90.1-2013 efficiency requirements
- Offers excellent performance and serviceability in a compact footprint
- Further reduce energy cost with XE Models

400-Ton Example:	Series 1500	Competition	Competition
Fan HP	25	35	40
Footprint (L x W x H)	12'x12'x14.2'	12'x10'x15.5'	12'x12'x16.7'
Nominal Tons	401	395	423
Easy Service Access	✔	—	✔

NOTE: The unit selections for this example were based on maintaining installed layout parameters, which includes footprint and layout dimensions, as well as first cost of the unit.

400-Ton Example: Annual Operating Cost for a 25, 35 and 40 HP Motor



NOTE: Energy Cost Savings Based on a 400-Ton System ($0.12 kWH) for equivalent full load hours (EFLH).

The Most Serviceable Tower

- 26% less annual maintenance cost compared to other compact footprint products

NOTE: Difference was based on comparing costs to complete maintenance items listed in O&M Manual.

- Direct access to:
  - Sloped cold water basin
  - Hot water basin which can be inspected during full operation of the system pump
  - Drive system through a spacious plenum and oversized doors on both sides of the unit
- Factory pre-assembled access options available for ease of maintenance

Factory Pre-Assembled External Access Platform

Reliable Year-Round Operation

- Superior winter operation
- Standard independent fan motors provide capacity control and redundancy
- Meets wind and seismic requirements of the International Building Code
- Tested per the California's Office of Statewide Health Planning and Development (OSHPD) requirements

Shake Table Testing

The Ideal Replacement Unit for Existing BAC's or Competitors' Equipment

- When replacing centrifugal fan towers, the Series 1500 Cooling Tower reduces installation AND operating costs
- Save up to $7,000 on installation costs for replacement projects:
  - Fits on existing steel support
  - No enclosure modifications because of the layout flexibility of the single air intake
  - Minimal piping changes
  - Reuse starters

XE Models

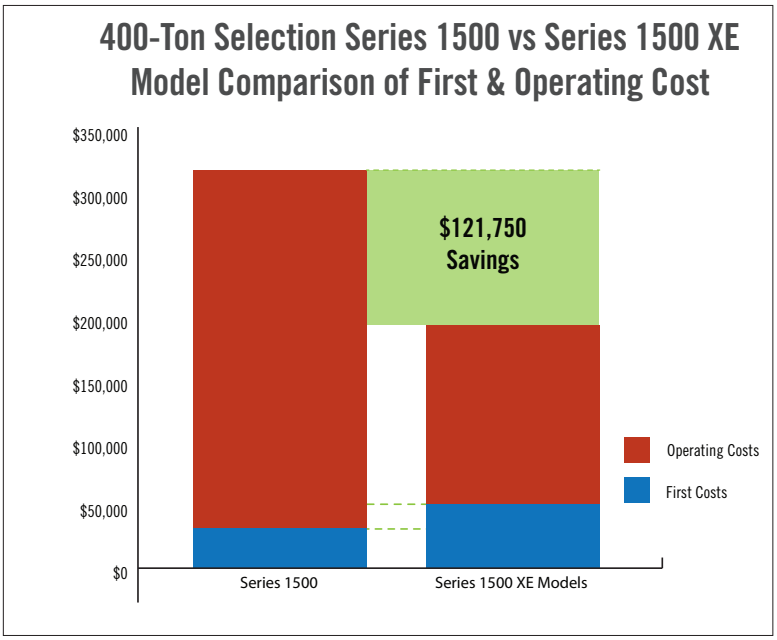
The Series 1500 XE models are tailored for projects that require extreme efficiency units to minimize energy costs, reduce sound levels, and contribute to LEED® Credits. Series 1500 XE models are at least two times more efficient than the minimum requirements established in ASHRAE Standard 90.1 - 2013.

Lowest Operating Costs

- 50% reduction in operating costs for a 400-Ton system
- Payback of less than 2 years

Reduced Sound Levels

- Additional sound reduction up to 50% (3dB)
- Fans optimized to minimize sound levels and maximize efficiency
- Additional sound reducing options available



NOTE: Operating costs based on fan kW x $0.12kWh x 2500EFLH (equivalent full load hours) x 20 years (2011 ASHRAE Handbook HVAC Applications) x 3% per year energy inflation factor.

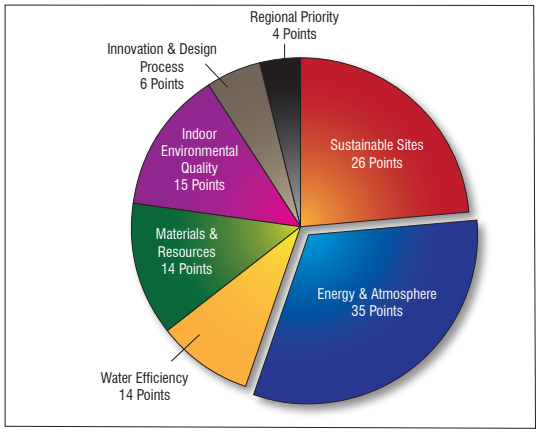
Increased Operating Reliability

- BALTIDRIVE® Power Train Fan System
- 40% longer L_{10} bearing life than the standard Series 1500 models
- 5-year motor and drive warranty

Series 1500 XE Cooling Tower

LEED® Certification Contributions

- Industry leading energy efficiency
- Provides energy cost savings
- Helps contribute to Energy and Atmosphere LEED® Credits (EAc1)



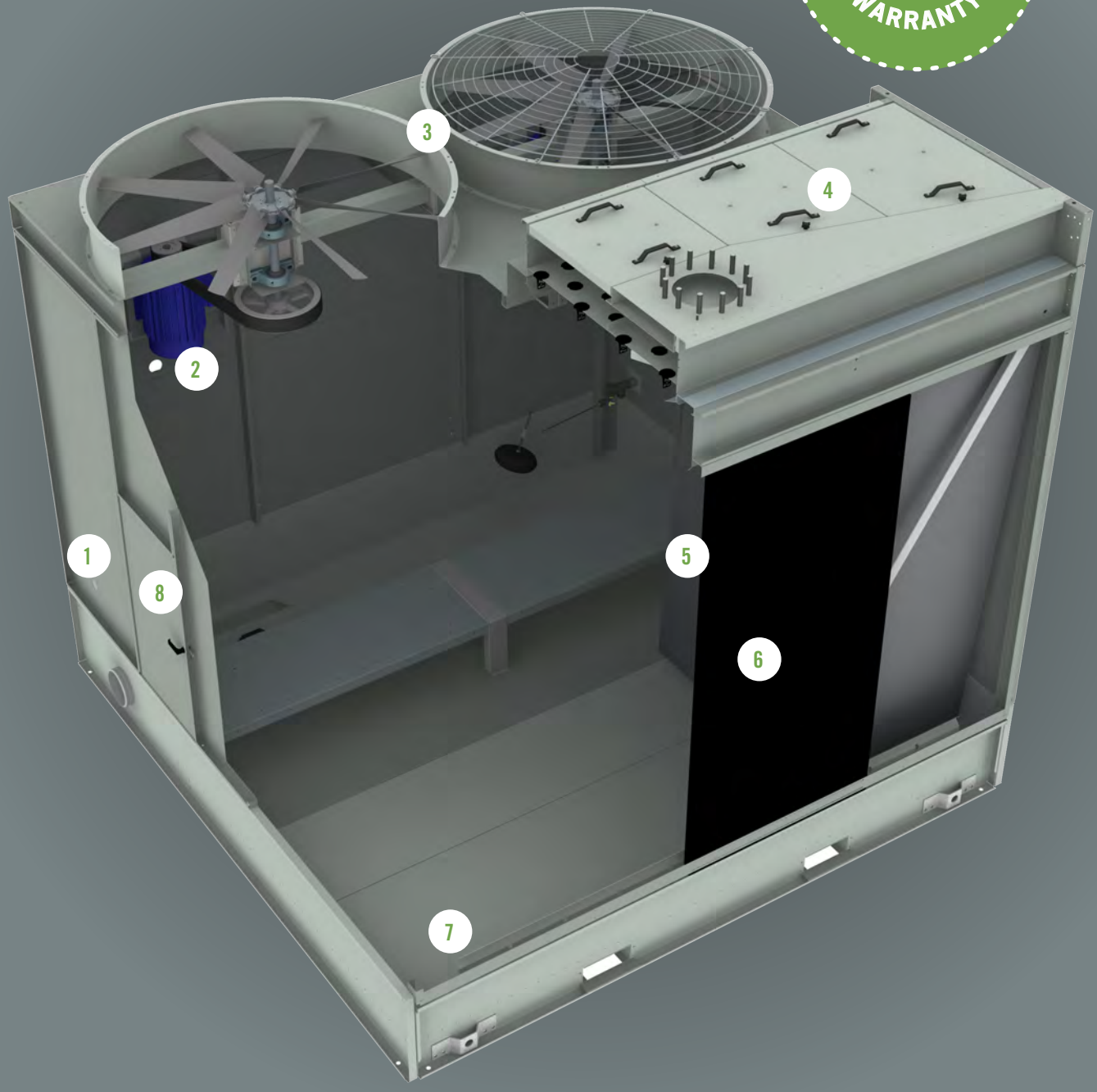
LEED® Point Breakdown for New Construction

- **Lowest Operating Costs**
- **Reduced Sounds Levels**
- **Increased Operating Reliability**
- **Helps Contribute to LEED® Credits**

COMPARE › SELECT › SPECIFY ›

Series 1500 Construction Details

BAC MOTOR & DRIVE 5 YEAR WARRANTY



1 Heavy-Duty Construction

- G-235 (Z700 metric) mill galvanized steel is the heaviest galvanizing available ensuring durability
- Meets wind and seismic requirements of the International Building Code (IBC)
- Shake table tested and verified seismic ratings ensure operability after an event
- Tested per the California's Office of Statewide Health Planning and Development (OSHPD) requirements

2 BALTIDRIVE® Power Train

- Independent fan drives are standard providing capacity control and redundancy
- Premium quality, solid backed, multi-groove belt to ensure reliable operation
- Corrosion resistant cast aluminum sheaves reduce drive maintenance compared to cast iron sheaves
- Heavy-duty bearings with a minimum L_{10} of 150,000 hours (500,000 hour average life) ensures reliable drive operation
- Premium efficient/inverter duty fan motors as standard
- 5-year motor and drive warranty

3 Low Horsepower Axial Fans

- High efficiency fans maximize the capacity for each model
- Quiet operation to minimize sound levels from the discharge of the unit

4 Water Distribution System

- Steel covers in easy to remove sections reduce maintenance
- Low pump head gravity distribution basins reduces system pump energy
- Large orifice, non-clog nozzles reduces maintenance of the distribution system
- Standard weir dams can accommodate a flow range of 50% to 100%

5 BACross® Fill with Integral Drift Eliminators (NOT SHOWN)

- High efficiency heat transfer surface optimizes thermal performance and energy efficiency
- Polyvinyl chloride (PVC) is impervious to rot, decay, and biological attack
- Flame spread rating of 5 per ASTM E84
- Elevated off of the cold water basin to reduce maintenance

6 Combined Inlet Shields

- Corrosion resistant
- Maintenance free
- UV-protected finish
- Reduces sunlight and algae growth

7 Cold Water Basin

- Sloped cold water basin for easy cleaning
- Suction strainer with anti-vortex hood
- Adjustable water make-up assembly
- Internal walkway as standard to minimize maintenance

8 Hinged Access Doors

- Inward hinged door on each end wall allows easy access to the drive system
- Permanently attached to the unit
- Easy safe access to the interior of the unit

Series 1500
Custom Features & Options

Materials of Construction

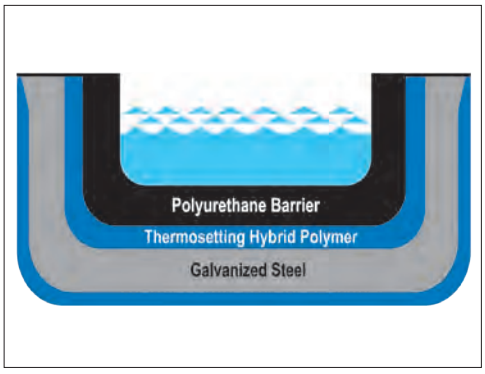
Determining the appropriate material of construction for a project depends on several factors, including water quality, climate and environmental conditions, availability of time and manpower for maintenance, unit lifetime requirements, and budget. BAC provides the widest variety of material of construction options in the industry and has the ability to provide a solution to meet all conditions and budgets. One example is the TriArmor® Corrosion Protection System which provides superior corrosion resistance and durability at a tremendous value.

Standard Construction Installation

Customer Valued

STANDARD CONSTRUCTION

G-235 mill galvanized steel is the heaviest commercially available galvanized steel, universally recognized for its strength and corrosion resistance. To assure long-life, G-235 mill galvanized steel is used as the standard material of construction for all Series 1500 units. With proper maintenance and water treatment, G-235 galvanized steel products will provide an excellent service life under the operating conditions normally encountered in comfort cooling and industrial applications.



TriArmor® Corrosion Protection System Triple Layer Protection

Customer Valued

TRIARMOR® CORROSION PROTECTION SYSTEM (OPTION)

The TriArmor® Corrosion Protection System consists of heavy gauge G-235 mill galvanized steel panels fully encapsulated by a thermosetting hybrid polymer and further protected by a polyurethane barrier applied to all submerged surfaces of the cold water basin. The triple layers of protection form a completely seamless cold water basin for the most leak resistant and durable basin in the industry. Other components, such as the strainer, within the basin will be constructed of stainless steel. The TriArmor® Corrosion Protection System was specifically designed for evaporative cooling applications and released in 2006 after a decade of extensive R&D and field testing. To date, there are thousands of successful installations in North America. Every basin is leak tested at the factory and warranted against leaks and corrosion for 5 years.

Application of TriArmor® Corrosion Protection System

THERMOSETTING HYBRID POLYMER (OPTION)

A thermosetting hybrid polymer, used to extend equipment life, is applied to select G-235 mill galvanized steel components of the unit. The polymerized coating is baked onto the G-235 mill galvanized steel and creates a barrier to the already corrosion resistant galvanized steel. The thermosetting hybrid polymer has been tested to withstand 6,000 hours in a 5% salt spray without blistering, chipping, or losing adhesion.

Thermosetting Hybrid Polymer Construction Installation

STAINLESS STEEL (OPTION)

Several stainless steel material of construction options are available.

- **WELDED STAINLESS STEEL COLD WATER BASIN**
  A welded stainless steel cold water basin is available. All steel panels and structural members of the cold water basin are constructed from stainless steel. Seams between panels inside the cold water basin are welded, providing an advantage over bolted stainless steel cold water basins for minimizing susceptibility to leaks at basin seams. The basin is leak tested at the factory and welded seams are provided with a 5-year, leak-proof warranty.
- **STAINLESS STEEL HOT WATER BASIN**
  The hot water basin and basin covers are constructed of stainless steel.
- **ALL STAINLESS STEEL CONSTRUCTION**
  All unit structural elements and the hot and cold water basins are constructed of stainless steel. Seams between panels inside the cold water basin are welded, providing an extreme advantage over bolted cold water basins for minimizing susceptibility to leaks at basin seams. The basin is leak tested at the factory and welded seams are provided with a 5-year leak-proof warranty.

Welded Stainless Steel Cold Water Basin

Series 1500
Custom Features & Options

Drive System Options

The fan drive system provides the cooling air necessary to reject unwanted heat from the system to the atmosphere. All BAC drive systems use premium efficient cooling tower duty motors and include BAC's comprehensive 5-year motor and drive warranty. Cooling tower duty motors are specially designed for the harsh environment inside a cooling tower and have permanently lubricated bearings, drastically decreasing the maintenance requirement of the motor. BAC belt drive systems are the most durable and maintenance friendly drive systems on the market, including single nut adjustment for belt tensioning to make belt tensioning simple.

BAC MOTOR & DRIVE 5 YEAR WARRANTY

Customer Valued

STANDARD BALTIDRIVE® POWER TRAIN

The BALTIDRIVE® Power Train utilizes special corrosion resistant materials of construction and state-of-the-art technology to ensure ease of maintenance and reliable year-round performance. This BAC engineered drive system consists of a specially designed powerband and two cast aluminum sheaves located at minimal shaft centerline distances to maximize belt life. As compared to a gear drive system, this specially engineered belt drive system provides many advantages. The BALTIDRIVE® Power Train requires only periodic inspection of components and belt tensioning, which is simple with a single nut adjustment, and requires less downtime. Only fan bearing lubrication is required for routine maintenance. Belt drive systems also have the added advantage of being suitable for variable frequency drive (VFD) applications without requiring expensive optional accessories.

BALTIDRIVE® Power Train Fan System

Customer Valued

INDEPENDENT FAN OPERATION

The independent fan consists of one fan motor and drive assembly for each fan to allow independent operation, adding an additional step of fan cycling and capacity control. This ensures complete redundancy for the fan and motor system.

DUAL DRIVE (OPTION)

The dual drive option consists of a single motor and drive system attached to two fans. This option is available to reduce the wiring and starter changes on replacement projects.

BALTIGUARD™ FAN SYSTEM (OPTION)

The BALTIGUARD™ Fan System consists of two standard single-speed fan motor and drive assemblies. The drive assemblies are sized for full speed and load. This provides 100% motor redundancy and the greatest level of reliability.

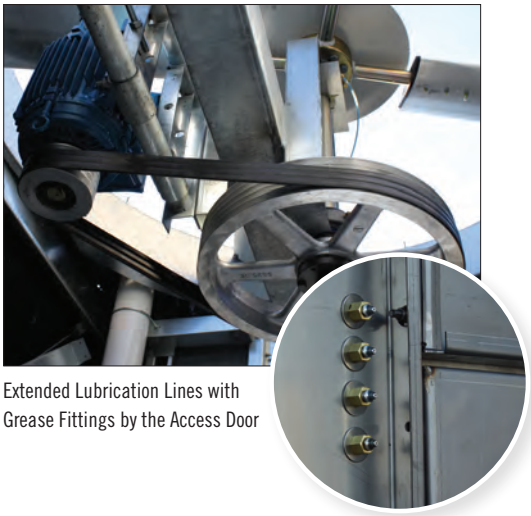
VIBRATION CUTOUT SWITCH (OPTION)

A factory mounted vibration cutout switch is available to effectively protect against rotating equipment failure. BAC can provide either a mechanical or solid-state electronic vibration cutout switch in a NEMA 4 enclosure to ensure reliable protection. Additional contacts can be provided on either switch type to activate an alarm. Remote reset capability is also available on either switch type.

EXTENDED LUBRICATION LINES (OPTION)

Extended lubrication lines are available for lubrication of the fan shaft bearings. Fittings are located on the exterior casing panel next to the access door.

BALTIGUARD™ Fan System Provides Built in Redundancy



Extended Lubrication Lines with Grease Fittings by the Access Door

Series 1500
Custom Features & Options

Cold Water Basin

The cooling tower water collects in the cold water basin which provides the required head pressure for the cooling system pump. During operation the Series 1500 cold water basin helps eliminate any stagnant zones which are susceptible to biological growth. The Series 1500 cold water basin facilitates easy inspection and maintenance of basin accessories and connections.

Customer Valued

STANDARD MECHANICAL WATER LEVEL CONTROL

Mechanical make-up valves must operate continuously in the moist and turbulent environment existing within evaporative cooling equipment. Due to this environment, the operation of the valve must be simple, and the valve must be durable. BAC's high quality mechanical water level control assembly is standard with all units, and has been specially designed to provide the most reliable operation while being easy to maintain. This accessory is omitted for remote sump applications.

Mechanical Water Level Control

ELECTRIC WATER LEVEL CONTROL (OPTION)

BAC's Electric Water Level Control (EWLC) is a state-of-the-art conductivity actuated, probe type liquid level control. The hermetically sealed EWLC is engineered and manufactured specifically for use in evaporative cooling systems and is equipped with an error code LED which illuminates to indicate status, including when the water and/or probes are dirty. The EWLC option replaces the standard mechanical make-up valve, and includes a slow closing, solenoid activated valve in the make-up water line to minimize water hammer. EWLC is recommended when more precise water level control is required and in areas that experience sub-freezing conditions.

Electric Water Level Control

BASIN HEATERS (OPTION)

Evaporative cooling equipment exposed to below freezing ambient temperatures require protection to prevent freezing of the water in the cold water basin when the unit is idle. Factory-installed electric immersion heaters, which maintain 40°F (4.4°C) water temperature, are a simple and inexpensive way of providing such protection.

Basin Heater

HEATER kW DATA

Model Number	0°F (-17.8°C) Ambient Heaters		-20°F (-28.9°C) Ambient Heaters	
	Number of Heaters	kW per Heater	Number of Heaters	kW per Heater
S15E/XES15E-1285	1	10	1	12
S15E/XES15E-1212	1	12	1	16
S15E/XES15E-1218	2	10	2	12

NOTE: This table is based on 460V/3 phase/60 Hz power.

BASIN SWEEPER PIPING (OPTION)

Basin sweeper piping is an effective method of reducing sediment that may collect in the cold water basin of the unit. A complete piping system, including nozzles, is provided in the cold water basin to connect to side stream filtration equipment (provided by others). For more information on filtration systems, consult "Filtration Guide" found on **page J241**.

Basin Sweeper Piping

LOW AND HIGH LEVEL ALARM FLOAT SWITCHES (OPTION)

Low and high level alarm float switches are available to provide added control to your equipment operation. Level alarms can alert operators to an abnormal operating condition to ensure the highest system efficiency with minimal water usage.

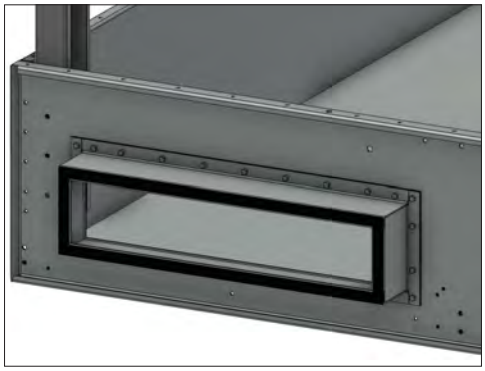
Series 1500
Custom Features & Options

Multi-Cell Unit Options

Special care must be taken for multi-cell installations to ensure balanced water levels in the cold water basins across cells. If measures are not put in place to ensure balanced basin water levels, a potential exists that one basin may overflow and dump water, while the water level in another tower goes low and requires make-up. This leads to unnecessary water waste. To prevent this from occurring, BAC provides two options for balancing water levels and recommends that the installation be designed to ensure balanced flows to and from each tower.

FLUME BOX – STANDARD ON ALL MULTI-CELL UNITS

A flume box is provided as standard for multi-cell units to ensure balanced water levels in the cold water basins across all cells. See the "Connection Guide" on **page J176** for more information.



Flume Box

EQUALIZER (OPTION)

Equalizer connections are available as an option for multi-cell cooling towers in lieu of a flume box. Use of an equalizer allows for easy isolation of a cell for winter operation, maintenance, or inspection while continuing system operation. See "Cooling Towers in Parallel" on **page J167** for more information.

Water Distribution System

The Series 1500 Cooling Tower utilizes a low pump head gravity distribution system with large orifice, non-clogging nozzles that requires less pump energy than a pressurized distribution system.

Customer Valued

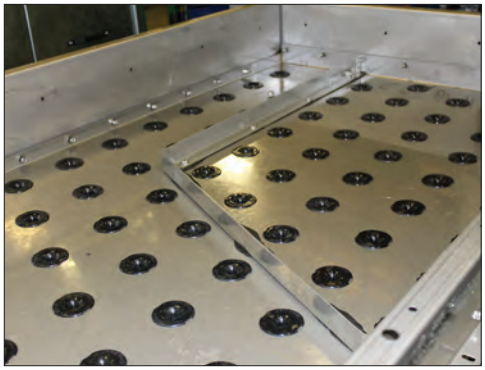
STANDARD SINGLE INLET CONNECTION

The Series 1500 comes standard with a single inlet connection. Basin covers match the material of construction of the hot water basin and come in easy to handle sections for access and inspection of the distribution system. The use of gravity distribution minimizes pump head requirements and allows for maintenance during unit operation. BAC's patented non-clog nozzles ensure even flow over the fill area and are simple to remove for maintenance.

Standard Single Inlet Connection

STANDARD WEIR DAMS

Reducing water flow through a unit below the recommended level may potentially create uneven water distribution through the heat transfer section, causing scale build up, splash out/drift, and icing. The hot water basin can accommodate a flow range of 50% to 100% of the design flow.



Weir Dams

Fill

BACross® Fill, BAC's patented crossflow hanging fill, was developed after years of extensive research. BACross® Fill is made of PVC and is optimized to provide the most efficient thermal capacity. PVC is virtually impervious to rot, decay, and biological attack. The fill is elevated above the cold water basin floor to facilitate cleaning and maintenance. The integral eliminators effectively strip entrained moisture from the leaving air stream with minimum pressure drop to prevent water loss with negligible impact on efficiency.

Customer Valued

STANDARD FILL

Standard fill can be used in applications with entering water temperature up to 130°F (54.4°C). The fill and drift eliminators are formed from self-extinguishing PVC having a flame spread rating of 5 per ASTM E84.

HIGH TEMPERATURE FILL (OPTION)

An optional high temperature fill material is available which increases the maximum allowable entering water temperature to 140°F (60°C).

BACross® Fill Manufacturing

Series 1500
Custom Features & Options

Shipping and Rigging

BAC units are factory-assembled to ensure uniform quality with minimum field assembly. Each unit has been designed with rigging and assembly in mind and includes features to minimize the number of tools required and installation time.

KNOCKDOWN UNITS (OPTION)

Knockdown units are available for jobs where access to the cooling tower location is limited by elevators, doorways, or similar obstacles, where lifting methods impose very strict weight limits, or where the shipping cost of a fully assembled tower is excessive. All materials of construction and design features are the same as those of a factory assembled unit. Welded stainless steel cold water basins and TriArmor® Corrosion Protection System cold water basins are excluded due to the need for in-plant assembly.

Single Piece Lift

Sound Options

Recognition of the importance of sound restriction is growing and can be a very important design criterion for any project. BAC maintains the widest selection of sound mitigating options in the market place and can provide the most cost effective option to meet any requirement.

Low Sound Fan

Customer Valued

STANDARD FAN

The fan provided for all Series 1500 Cooling Towers is selected to optimize low sound levels and thermal performance.

LOW SOUND FAN (OPTION)

The Low Sound Fan option reduces sound up to 8 dBA. Adding a high solidity fan decreases sound levels by decreasing fan speed, which proportionally decreases sound levels. The thermal performance with the Low Sound Fan has been certified in accordance with CTI Standard STD-201.

WHISPER QUIET FAN (OPTION)

For the most extreme sound limitations, BAC's Whisper Quiet Fan reduces sound up to 14 dBA and is CTI Certified.

Whisper Quiet Fan

SOUND ATTENUATION (OPTION)

Factory designed, tested, and rated sound attenuation options are available for both the air intake and discharge. Consult your local BAC Representative regarding available options.

NOTE: The panel opposite the air intake, called the blank-off panel, is inherently quiet. Positioning the blank-off panel towards the sound sensitive direction insulates sensitive areas from higher sound levels.

Combined Inlet Shield Inspection

Air Intake

In a cooling tower, airborne debris can be entrained in the water through the unit's air intake. Reducing the amount of debris that enters the tower lowers maintenance requirements and helps to maintain thermal efficiency.

Customer Valued

COMBINED INLET SHIELDS (CIS)

The Combined Inlet Shields' (CIS) bent flow path blocks sunlight from the cold water basin and acts as a screen to prevent debris from entering the unit. These benefits result in a significant reduction in algae growth, debris accumulation and scale build-up. CIS are constructed from corrosion and UV resistant PVC, and are CTI Certified. and are installed in easy to handle sections to facilitate removal, inspection, and replacement. The use of CIS results in lower maintenance costs and ease of maintenance over the life of the unit.

Combined Inlet Shields

Series 1500
Custom Features & Options

Access Options

BAC provides a broad offering of access options. Our evaporative equipment is designed to be the most easily maintainable for sustaining capacity over a longer life. All BAC platforms and ladders are designed to be OSHA compliant to ensure personnel safety and code compliance.

NOTE: Platforms, ladders, handrails, safety gates, and safety cages can be added at the time of order or as an aftermarket item.

Customer Valued

STANDARD INTERNAL WALKWAY

An internal walkway is standard, allowing access to the spacious plenum area for maintenance and inspections of the basin, make-up, fill, and drive system.

Internal Walkway

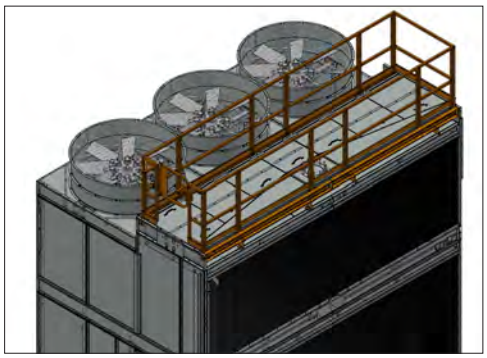
Customer Valued

EXTERNAL PLATFORMS AND LADDER PACKAGES (OPTION)

External platforms and ladder packages are available to provide safe access to key components such as the water distribution system of the unit for maintenance. These specially designed platforms are secured for compact shipping in the cold water basin to minimize shipping costs and are ready for field assembly.

HANDRAIL PACKAGES (OPTION)

Handrail packages are available to provide safe access to the top of the unit for maintenance of the distributions system. The designed packages are secured for compact shipping in the cold water basin to minimize shipping costs and are easily assembled in the field.



Handrail Package

INTERNAL SERVICE PLATFORM AND LADDER PACKAGES (OPTION FOR TWO PIECE UNITS)

For access to the motor and drive assemblies, an internal ladder and upper service platform with handrails is available on larger units. Safety gates are standard for all handrail openings, and all components are designed to meet OSHA requirements.

INTERNAL LADDER (OPTION)

A moveable internal ladder is available, providing access to the motor and drive assemblies.

NOTE: Site safety guidelines should dictate access packages selected for the project.

ACCESS DOOR PLATFORM AND LADDER PACKAGES (OPTION)

An access door platform is available to allow access to the unit when installed on elevated supports. This option allows for safe access to the unit, as well as a working platform to stage tools for maintenance.

External Ladder and Platform

Installation Flexibility

Years of operating experience and extensive R&D have resulted in a design that minimizes costs associated with enclosures, support requirements, electrical service, piping, and rigging, making the Series 1500 Cooling Towers the industry's most serviceable unit without compromising performance and fit.

PIPING FLEXIBILITY

BAC offers a multitude of connection options and locations to ensure the proper fit for any application, potentially eliminating piping modifications and therefore reducing material and labor.

SUPPORT STEEL FLEXIBILITY

Several support steel configurations are available, including the ability to utilize pre-existing support steel for replacement units, significantly reducing cost.

SINGLE-SIDE AIR INTAKE

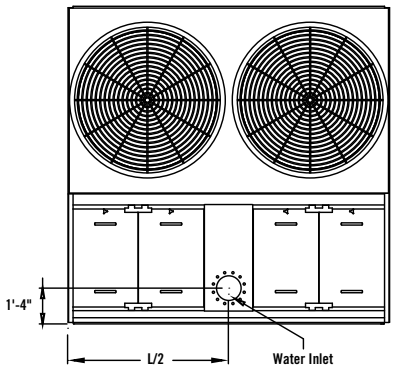
Single-side air intake units can be placed close to solid walls, reducing the size of enclosures and allowing for more profitable use of premium space. Also, the panel opposite the air intake, called the blank-off panel, is inherently quiet. Positioning the blank-off panel towards the sound sensitive direction insulates sensitive areas from higher sound levels.

Steel Support Flexibility

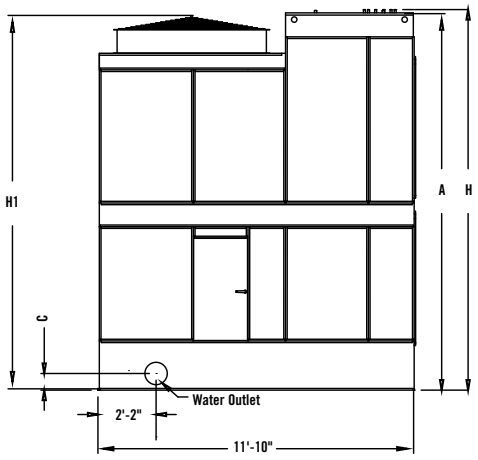
Series 1500 Engineering Data

NOTE: Do not use for construction. Refer to factory certified dimensions. This catalog includes data current at the time of publication, which should be reconfirmed at the time of purchase. Up-to-date engineering data, free product selection software, and more can be found at **www.BaltimoreAircoil.com**.

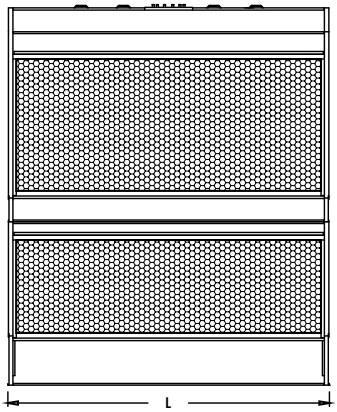
Plan View



Face A



Face D

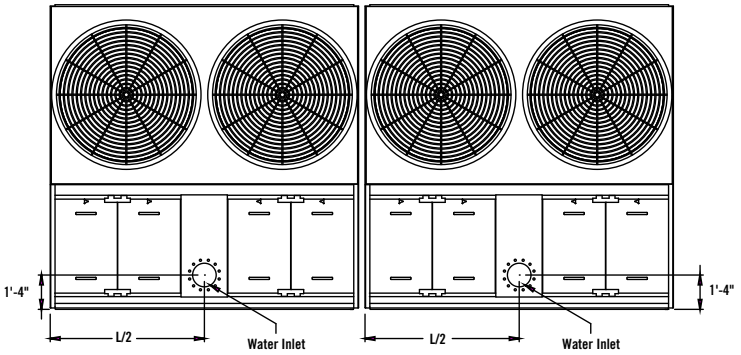


NOTES:

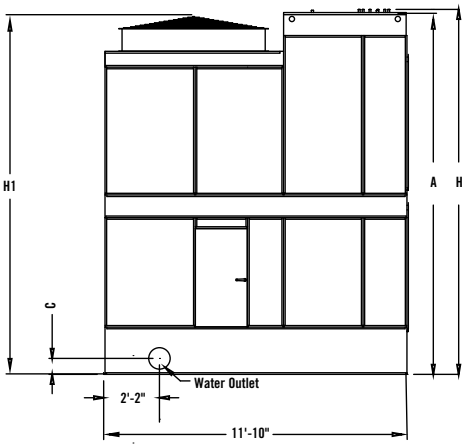
1. The specific size of the inlet and outlet connection may vary with the cooling water design flow rate. Consult unit print for dimensions.

NOTE: Do not use for construction. Refer to factory certified dimensions. This catalog includes data current at the time of publication, which should be reconfirmed at the time of purchase. Up-to-date engineering data, free product selection software, and more can be found at **www.BaltimoreAircoil.com**.

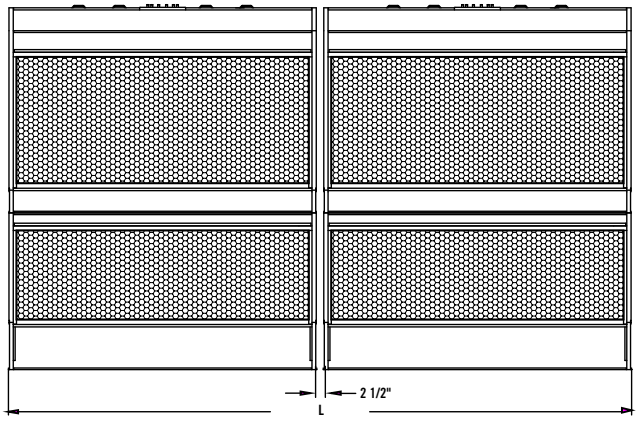
Plan View



Face A



Face D



NOTES:

1. The specific size of the inlet and outlet connection may vary with the cooling water design flow rate. Consult unit print for dimensions.

Series 1500 Single Cell Data

Model Number	Nominal Tonnage[1]	Motor HP	Optional Dual Drive Fan Motor HP	Fan (CFM)	Weights (lbs)			Dimensions [3]				
					Operating[2]	Shipping	Heaviest Section	L	H	H1	A	C
S15E-1285-06JN	158	7.5	-	38,020	9,100	4,310	4,310	8'-6"	10'-0"	9'-9"	9'-11"	8 1/4"
S15E-1285-06KN	173	10	-	41,520	9,110	4,320	4,320	8'-6"	10'-0"	9'-9"	9'-11"	8 1/4"
S15E-1285-06LN	198	15	-	47,090	9,240	4,450	4,450	8'-6"	10'-0"	9'-9"	9'-11"	8 1/4"
S15E-1285-07KN	189	10	-	44,040	9,670	4,640	4,640	8'-6"	11'-4"	11'-1"	11'-3"	8 1/4"
S15E-1285-07LN	217	15	-	50,310	9,790	4,760	4,760	8'-6"	11'-4"	11'-1"	11'-3"	8 1/4"
S15E-1285-07MN	236	20	-	54,550	9,850	4,820	4,820	8'-6"	11'-4"	11'-1"	11'-3"	8 1/4"
S15E-1285-09KN	223	10	-	50,570	11,760	5,770	3,260	8'-6"	14'-4"	14'-4"	14'-1"	8 1/4"
S15E-1285-09LN	253	15	-	57,100	11,880	5,890	3,380	8'-6"	14'-4"	14'-4"	14'-1"	8 1/4"
S15E-1285-09MN	276	20	-	62,250	11,940	5,950	3,440	8'-6"	14'-4"	14'-4"	14'-1"	8 1/4"
S15E-1285-10LN	264	15	-	59,420	12,630	6,160	3,380	8'-6"	15'-8"	15'-8"	15'-5"	8 1/4"
S15E-1285-10MN	289	20	-	64,740	12,690	6,220	3,440	8'-6"	15'-8"	15'-8"	15'-5"	8 1/4"
S15E-1285-10NN	310	25	-	69,230	12,720	6,250	3,470	8'-6"	15'-8"	15'-8"	15'-5"	8 1/4"
S15E-1212-07JN	282	(2) 7.5	(1) 15	66,220	14,160	6,310	6,310	12'-0"	11'-4"	11'-1"	11'-3"	8 1/4"
S15E-1212-07KN	309	(2) 10	(1) 20	72,070	14,190	6,340	6,340	12'-0"	11'-4"	11'-1"	11'-3"	8 1/4"
S15E-1212-07LC	332	(2) 15	(1) 25	76,950	14,440	6,590	6,590	12'-0"	11'-4"	11'-1"	11'-3"	8 1/4"
S15E-1212-09JN	328	(2) 7.5	(1) 15	74,490	16,770	8,060	4,650	12'-0"	14'-3"	13'-11"	14'-1"	8 1/4"
S15E-1212-09KN	358	(2) 10	(1) 20	81,000	16,800	8,090	4,680	12'-0"	14'-3"	13'-11"	14'-1"	8 1/4"
S15E-1212-09LC	383	(2) 15	(1) 25	86,420	17,050	8,340	4,930	12'-0"	14'-3"	13'-11"	14'-1"	8 1/4"
S15E-1212-09LN	401	(2) 15	(1) 30	91,310	17,050	8,340	4,930	12'-0"	14'-3"	13'-11"	14'-1"	8 1/4"
S15E-1212-10KN	376	(2) 10	(1) 20	84,500	17,510	8,450	4,680	12'-0"	15'-7"	15'-3"	15'-5"	8 1/4"
S15E-1212-10LC	402	(2) 15	(1) 25	90,130	17,760	8,700	4,930	12'-0"	15'-7"	15'-3"	15'-5"	8 1/4"
S15E-1212-10LN	421	(2) 15	(1) 30	95,220	17,760	8,700	4,930	12'-0"	15'-7"	15'-3"	15'-5"	8 1/4"
S15E-1212-10MN	459	(2) 20	(1) 40	103,680	17,880	8,820	5,050	12'-0"	15'-7"	15'-3"	15'-5"	8 1/4"
S15E-1212-11KN	387	(2) 10	(1) 20	87,560	18,380	8,810	4,680	12'-0"	16'-11"	16'-7"	16'-9"	8 1/4"
S15E-1212-11LC	414	(2) 15	(1) 25	93,370	18,630	9,060	4,930	12'-0"	16'-11"	16'-7"	16'-9"	8 1/4"
S15E-1212-11LN	434	(2) 15	(1) 30	98,620	18,630	9,060	4,930	12'-0"	16'-11"	16'-7"	16'-9"	8 1/4"
S15E-1212-11MN	478	(2) 20	(1) 40	107,330	18,750	9,180	5,050	12'-0"	16'-11"	16'-7"	16'-9"	8 1/4"
S15E-1212-12KN	401	(2) 10	(1) 20	90,280	18,750	9,180	4,680	12'-0"	18'-3"	17'-11"	18'-1"	8 1/4"
S15E-1212-12LC	429	(2) 15	(1) 25	96,240	19,000	9,430	4,930	12'-0"	18'-3"	17'-11"	18'-1"	8 1/4"
S15E-1212-12LN	449	(2) 15	(1) 30	101,620	19,000	9,430	4,930	12'-0"	18'-3"	17'-11"	18'-1"	8 1/4"
S15E-1212-12MN	495	(2) 20	(1) 40	110,560	19,120	9,550	5,050	12'-0"	18'-3"	17'-11"	18'-1"	8 1/4"

Model Number	Nominal Tonnage[1]	Motor HP	Optional Dual Drive Fan Motor HP	Fan (CFM)	Weights (lbs)			Dimensions[3]				
					Operating[2]	Shipping	Heaviest Section	L	H	H1	A	C
S15E-1218-07JN	427	(3) 7.5	(1) 15 & (1) 7.5	100,050	23,470	9,680	9,680	18'-0"	11'-10"	11'-10"	11'-9"	16 1/4"
S15E-1218-07KN	466	(3) 10	(1) 20 & (1) 10	108,900	23,510	9,720	9,720	18'-0"	11'-10"	11'-10"	11'-9"	16 1/4"
S15E-1218-07LC	501	(3) 15	(1) 25 & (1) 15	116,280	23,890	10,100	10,100	18'-0"	11'-10"	11'-10"	11'-9"	16 1/4"
S15E-1218-09JN	490	(3) 7.5	(1) 15 & (1) 7.5	112,420	27,220	12,130	6,970	18'-0"	14'-9"	14'-8"	14'-7"	16 1/4"
S15E-1218-09KN	535	(3) 10	(1) 20 & (1) 10	122,270	27,260	12,170	7,010	18'-0"	14'-9"	14'-8"	14'-7"	16 1/4"
S15E-1218-09LC	572	(3) 15	(1) 25 & (1) 15	130,460	27,640	12,550	7,390	18'-0"	14'-9"	14'-8"	14'-7"	16 1/4"
S15E-1218-09LN	606	(3) 15	(1) 30 & (1) 15	137,860	27,640	12,550	7,390	18'-0"	14'-9"	14'-8"	14'-7"	16 1/4"
S15E-1218-10KN	561	(3) 10	(1) 20 & (1) 10	127,510	28,560	12,680	7,010	18'-0"	16'-1"	16'-0"	15'-11"	16 1/4"
S15E-1218-10LC	600	(3) 15	(1) 25 & (1) 15	136,020	28,940	13,060	7,390	18'-0"	16'-1"	16'-0"	15'-11"	16 1/4"
S15E-1218-10LN	629	(3) 15	(1) 30 & (1) 15	143,710	28,940	13,060	7,390	18'-0"	16'-1"	16'-0"	15'-11"	16 1/4"
S15E-1218-10MN	694	(3) 20	(1) 40 & (1) 20	156,490	29,120	13,240	7,570	18'-0"	16'-1"	16'-0"	15'-11"	16 1/4"
S15E-1218-11KN	584	(3) 10	(1) 20 & (1) 10	132,110	29,340	13,200	7,010	18'-0"	17'-5"	17'-4"	17'-3"	16 1/4"
S15E-1218-11LC	625	(3) 15	(1) 25 & (1) 15	140,890	29,720	13,580	7,390	18'-0"	17'-5"	17'-4"	17'-3"	16 1/4"
S15E-1218-11LN	655	(3) 15	(1) 30 & (1) 15	148,810	29,720	13,580	7,390	18'-0"	17'-5"	17'-4"	17'-3"	16 1/4"
S15E-1218-11MN	722	(3) 20	(1) 40 & (1) 20	161,970	29,900	13,760	7,570	18'-0"	17'-5"	17'-4"	17'-3"	16 1/4"
S15E-1218-12KN	605	(3) 10	(1) 20 & (1) 10	136,180	30,390	13,730	7,010	18'-0"	18'-9"	18'-8"	18'-7"	16 1/4"
S15E-1218-12LC	647	(3) 15	(1) 25 & (1) 15	145,190	30,770	14,110	7,390	18'-0"	18'-9"	18'-8"	18'-7"	16 1/4"
S15E-1218-12LN	678	(3) 15	(1) 30 & (1) 15	153,320	30,770	14,110	7,390	18'-0"	18'-9"	18'-8"	18'-7"	16 1/4"
S15E-1218-12MN	747	(3) 20	(1) 40 & (1) 20	166,820	30,950	14,290	7,570	18'-0"	18'-9"	18'-8"	18'-7"	16 1/4"

NOTES FOR DOUBLE CELL UNITS:

1. Nominal tons of cooling represents the capability to cool 3 USGPM of water from a 95°F entering water temperature to an 85°F leaving water temperature at a 78°F entering wet-bulb temperature.
2. Operating weight is based on the water level in the cold water basin at overflow height. If a lower operating weight is needed to meet design requirements, your local BAC Representative can provide additional assistance.
3. Refer to **page B65** for dimensional reference drawings.

Do not use for construction. Refer to factory certified dimensions. This catalog includes data current at the time of publication, which should be reconfirmed at the time of purchase.

XE Model Data

Model Number	Nominal Tonnage[1]	Motor HP	Optional Dual Drive Fan Motor HP	Fan (CFM)	Weights (lbs)			Dimensions [3]				
					Operating[2]	Shipping	Heaviest Section	L	H	H1	A	C
XES15E-1285-06EN	92	1.5	-	22,710	8,990	4,200	4,200	8'-6"	10'-0"	9'-9"	9'-11"	8 1/4"
XES15E-1285-06FN	101	2	-	24,830	9,010	4,220	4,220	8'-6"	10'-0"	9'-9"	9'-11"	8 1/4"
XES15E-1285-06GN	117	3	-	28,460	9,040	4,250	4,250	8'-6"	10'-0"	9'-9"	9'-11"	8 1/4"
XES15E-1285-06HN	138	5	-	33,320	9,050	4,260	4,260	8'-6"	10'-0"	9'-9"	9'-11"	8 1/4"
XES15E-1285-07EN	101	1.5	-	24,350	9,540	4,510	4,510	8'-6"	11'-4"	11'-1"	11'-3"	8 1/4"
XES15E-1285-07FN	111	2	-	26,630	9,560	4,530	4,530	8'-6"	11'-4"	11'-1"	11'-3"	8 1/4"
XES15E-1285-07GN	128	3	-	30,500	9,590	4,560	4,560	8'-6"	11'-4"	11'-1"	11'-3"	8 1/4"
XES15E-1285-07HN	150	5	-	35,380	9,600	4,570	4,570	8'-6"	11'-4"	11'-1"	11'-3"	8 1/4"
XES15E-1285-07JN	174	7.5	-	40,690	9,650	4,620	4,620	8'-6"	11'-4"	11'-1"	11'-3"	8 1/4"
XES15E-1285-09FN	131	2	-	30,670	11,650	5,660	3,150	8'-6"	14'-4"	14'-4"	14'-1"	8 1/4"
XES15E-1285-09GN	151	3	-	35,050	11,680	5,690	3,180	8'-6"	14'-4"	14'-4"	14'-1"	8 1/4"
XES15E-1285-09HN	178	5	-	40,870	11,690	5,700	3,190	8'-6"	14'-4"	14'-4"	14'-1"	8 1/4"
XES15E-1285-09JN	204	7.5	-	46,450	11,740	5,750	3,240	8'-6"	14'-4"	14'-4"	14'-1"	8 1/4"
XES15E-1285-10FN	137	2	-	31,960	12,400	5,930	3,150	8'-6"	15'-8"	15'-8"	15'-5"	8 1/4"
XES15E-1285-10GN	158	3	-	36,520	12,430	5,960	3,180	8'-6"	15'-8"	15'-8"	15'-5"	8 1/4"
XES15E-1285-10HN	186	5	-	42,570	12,440	5,970	3,190	8'-6"	15'-8"	15'-8"	15'-5"	8 1/4"
XES15E-1285-10JN	213	7.5	-	48,370	12,490	6,020	3,240	8'-6"	15'-8"	15'-8"	15'-5"	8 1/4"
XES15E-1285-10KN	233	10	-	52,640	12,510	6,040	3,260	8'-6"	15'-8"	15'-8"	15'-5"	8 1/4"
XES15E-1212-07EN	167	(2) 1.5	(1) 3	40,230	13,940	6,090	6,090	12'-0"	11'-4"	11'-1"	11'-3"	8 1/4"
XES15E-1212-07FN	183	(2) 2	(1) 5	43,890	13,980	6,130	6,130	12'-0"	11'-4"	11'-1"	11'-3"	8 1/4"
XES15E-1212-07GC	197	(2) 3	(1) 5	46,940	14,040	6,190	6,190	12'-0"	11'-4"	11'-1"	11'-3"	8 1/4"
XES15E-1212-07GN	208	(2) 3	(1) 7.5	49,580	14,040	6,190	6,190	12'-0"	11'-4"	11'-1"	11'-3"	8 1/4"
XES15E-1212-07HC	226	(2) 5	(1) 7.5	53,540	14,060	6,210	6,210	12'-0"	11'-4"	11'-1"	11'-3"	8 1/4"
XES15E-1212-07HN	247	(2) 5	(1) 10	58,320	14,060	6,210	6,210	12'-0"	11'-4"	11'-1"	11'-3"	8 1/4"
XES15E-1212-09EN	195	(2) 1.5	(1) 3	45,400	16,550	7,840	4,430	12'-0"	14'-3"	13'-11"	14'-1"	8 1/4"
XES15E-1212-09FN	213	(2) 2	(1) 5	49,510	16,590	7,880	4,470	12'-0"	14'-3"	13'-11"	14'-1"	8 1/4"
XES15E-1212-09GC	229	(2) 3	(1) 5	52,930	16,650	7,940	4,530	12'-0"	14'-3"	13'-11"	14'-1"	8 1/4"
XES15E-1212-09GN	243	(2) 3	(1) 7.5	55,890	16,650	7,940	4,530	12'-0"	14'-3"	13'-11"	14'-1"	8 1/4"
XES15E-1212-09HC	263	(2) 5	(1) 7.5	60,320	16,670	7,960	4,550	12'-0"	14'-3"	13'-11"	14'-1"	8 1/4"
XES15E-1212-09HN	287	(2) 5	(1) 10	65,670	16,670	7,960	4,550	12'-0"	14'-3"	13'-11"	14'-1"	8 1/4"
XES15E-1212-10EN	204	(2) 1.5	(1) 3	47,460	17,260	8,200	4,430	12'-0"	15'-7"	15'-3"	15'-5"	8 1/4"
XES15E-1212-10FN	224	(2) 2	(1) 5	51,750	17,300	8,240	4,470	12'-0"	15'-7"	15'-3"	15'-5"	8 1/4"
XES15E-1212-10GC	241	(2) 3	(1) 5	55,320	17,360	8,300	4,530	12'-0"	15'-7"	15'-3"	15'-5"	8 1/4"
XES15E-1212-10GN	255	(2) 3	(1) 7.5	58,400	17,360	8,300	4,530	12'-0"	15'-7"	15'-3"	15'-5"	8 1/4"
XES15E-1212-10HC	276	(2) 5	(1) 7.5	63,020	17,380	8,320	4,550	12'-0"	15'-7"	15'-3"	15'-5"	8 1/4"
XES15E-1212-10HN	302	(2) 5	(1) 10	68,580	17,380	8,320	4,550	12'-0"	15'-7"	15'-3"	15'-5"	8 1/4"
XES15E-1212-10JN	344	(2) 7.5	(1) 15	77,730	17,480	8,420	4,650	12'-0"	15'-7"	15'-3"	15'-5"	8 1/4"
XES15E-1212-11EN	211	(2) 1.5	(1) 3	49,260	18,130	8,560	4,430	12'-0"	16'-11"	16'-7"	16'-9"	8 1/4"
XES15E-1212-11FN	231	(2) 2	(1) 5	53,710	18,170	8,600	4,470	12'-0"	16'-11"	16'-7"	16'-9"	8 1/4"
XES15E-1212-11GC	248	(2) 3	(1) 5	57,410	18,230	8,660	4,530	12'-0"	16'-11"	16'-7"	16'-9"	8 1/4"

Do not use for construction. Refer to factory certified dimensions. This catalog includes data current at the time of publication, which should be reconfirmed at the time of purchase.

Model Number	Nominal Tonnage[1]	Motor HP	Optional Dual Drive Fan Motor HP	Fan (CFM)	Weights (lbs)			Dimensions [3]				
					Operating[2]	Shipping	Heaviest Section	L	H	H1	A	C
XES15E-1212-11GN	263	(2) 3	(1) 7.5	60,600	18,230	8,660	4,530	12'-0"	16'-11"	16'-7"	16'-9"	8 1/4"
XES15E-1212-11HC	285	(2) 5	(1) 7.5	65,380	18,250	8,680	4,550	12'-0"	16'-11"	16'-7"	16'-9"	8 1/4"
XES15E-1212-11HN	311	(2) 5	(1) 10	71,130	18,250	8,680	4,550	12'-0"	16'-11"	16'-7"	16'-9"	8 1/4"
XES15E-1212-11JN	355	(2) 7.5	(1) 15	80,590	18,350	8,780	4,650	12'-0"	16'-11"	17'-11"	16'-9"	8 1/4"
XES15E-1212-12FN	239	(2) 2	(1) 5	55,430	18,540	8,970	4,500	12'-0"	18'-3"	17'-11"	18'-1"	8 1/4"
XES15E-1212-12GC	257	(2) 3	(1) 5	59,240	18,600	9,030	4,530	12'-0"	18'-3"	17'-11"	18'-1"	8 1/4"
XES15E-1212-12GN	272	(2) 3	(1) 7.5	62,530	18,600	9,030	4,530	12'-0"	18'-3"	17'-11"	18'-1"	8 1/4"
XES15E-1212-12HC	295	(2) 5	(1) 7.5	67,460	18,620	9,050	4,550	12'-0"	18'-3"	17'-11"	18'-1"	8 1/4"
XES15E-1212-12HN	323	(2) 5	(1) 10	73,380	18,620	9,050	4,550	12'-0"	18'-3"	17'-11"	18'-1"	8 1/4"
XES15E-1212-12JN	368	(2) 7.5	(1) 15	83,110	18,720	9,150	4,650	12'-0"	18'-3"	17'-11"	18'-1"	8 1/4"
XES15E-1218-07EN	252	(3) 1.5	(1) 3 & (1) 1.5	60,750	23,140	9,350	9,350	18'-0"	11'-10"	11'-10"	11'-9"	16 1/4"
XES15E-1218-07FN	277	(3) 2	(1) 5 & (1) 2	66,280	23,200	9,410	9,410	18'-0"	11'-10"	11'-10"	11'-9"	16 1/4"
XES15E-1218-07GN	318	(3) 3	(1) 7.5 & (1) 3	75,640	23,290	9,500	9,500	18'-0"	11'-10"	11'-10"	11'-9"	16 1/4"
XES15E-1218-07HN	373	(3) 5	(1) 10 & (1) 5	88,100	23,320	9,530	9,530	18'-0"	11'-10"	11'-10"	11'-9"	16 1/4"
XES15E-1218-09EN	291	(3) 1.5	(1) 3 & (1) 1.5	68,470	26,890	11,800	6,640	18'-0"	14'-9"	14'-8"	14'-7"	16 1/4"
XES15E-1218-09FN	319	(3) 2	(1) 5 & (1) 2	74,680	26,950	11,860	6,700	18'-0"	14'-9"	14'-8"	14'-7"	16 1/4"
XES15E-1218-09GN	366	(3) 3	(1) 7.5 & (1) 3	85,180	27,040	11,950	6,790	18'-0"	14'-9"	14'-8"	14'-7"	16 1/4"
XES15E-1218-09HN	430	(3) 5	(1) 10 & (1) 5	99,100	27,070	11,980	6,820	18'-0"	14'-9"	14'-8"	14'-7"	16 1/4"
XES15E-1218-10EN	305	(3) 1.5	(1) 3 & (1) 1.5	71,560	28,190	12,310	6,640	18'-0"	16'-1"	16'-0"	15'-11"	16 1/4"
XES15E-1218-10FN	335	(3) 2	(1) 5 & (1) 2	78,040	28,250	12,370	6,700	18'-0"	16'-1"	16'-0"	15'-11"	16 1/4"
XES15E-1218-10GN	385	(3) 3	(1) 7.5 & (1) 3	88,980	28,340	12,460	6,790	18'-0"	16'-1"	16'-0"	15'-11"	16 1/4"
XES15E-1218-10HN	451	(3) 5	(1) 10 & (1) 5	103,460	28,370	12,490	6,820	18'-0"	16'-1"	16'-0"	15'-11"	16 1/4"
XES15E-1218-10JN	514	(3) 7.5	(1) 15 & (1) 7.5	117,290	28,520	12,640	6,970	18'-0"	16'-1"	16'-0"	15'-11"	16 1/4"
XES15E-1218-11EN	318	(3) 1.5	(1) 3 & (1) 1.5	74,250	28,970	12,830	6,640	18'-0"	17'-5"	17'-4"	17'-3"	16 1/4"
XES15E-1218-11FN	348	(3) 2	(1) 5 & (1) 2	80,970	29,030	12,890	6,700	18'-0"	17'-5"	17'-4"	17'-3"	16 1/4"
XES15E-1218-11GN	401	(3) 3	(1) 7.5 & (1) 3	92,300	29,120	12,980	6,790	18'-0"	17'-5"	17'-4"	17'-3"	16 1/4"
XES15E-1218-11HN	470	(3) 5	(1) 10 & (1) 5	107,280	29,150	13,010	6,820	18'-0"	17'-5"	17'-4"	17'-3"	16 1/4"
XES15E-1218-11JN	536	(3) 7.5	(1) 15 & (1) 7.5	121,570	29,300	13,160	6,970	18'-0"	17'-5"	17'-4"	17'-3"	16 1/4"
XES15E-1218-12EN	329	(3) 1.5	(1) 3 & (1) 1.5	76,610	30,020	13,360	6,720	18'-0"	18'-9"	18'-8"	18'-7"	16 1/4"
XES15E-1218-12FN	361	(3) 2	(1) 5 & (1) 2	83,530	30,080	13,420	6,720	18'-0"	18'-9"	18'-8"	18'-7"	16 1/4"
XES15E-1218-12GN	415	(3) 3	(1) 7.5 & (1) 3	95,220	30,170	13,510	6,790	18'-0"	18'-9"	18'-8"	18'-7"	16 1/4"
XES15E-1218-12HN	486	(3) 5	(1) 10 & (1) 5	110,640	30,200	13,540	6,820	18'-0"	18'-9"	18'-8"	18'-7"	16 1/4"
XES15E-1218-12JN	555	(3) 7.5	(1) 15 & (1) 7.5	125,340	30,350	13,690	6,970	18'-0"	18'-9"	18'-8"	18'-7"	16 1/4"

NOTES FOR XE-MODELS:

1. Nominal tons of cooling represents the capability to cool 3 USGPM of water from a 95°F entering water temperature to an 85°F leaving water temperature at a 78°F entering wet-bulb temperature.
2. Operating weight is based on the water level in the cold water basin at overflow height. If a lower operating weight is needed to meet design requirements, your local BAC Representative can provide additional assistance.
3. Refer to **page B65** for dimensional reference drawings.

Series 1500 Double Cell Unit Data

Model Number	Nominal Tonnage[1]	Motor HP	Optional Dual Drive Fan Motor HP	Fan (CFM)	Weights (lbs)			Dimensions [3]				
					Operating[2]	Shipping	Heaviest Section	L	H	H1	A	C
S15E-1285-06JN-2	316	(2) 7.5	-	76,040	18,200	8,620	4,310	17'-2"	10'-0"	9'-9"	9'-11"	8 1/4"
S15E-1285-06KN-2	346	(2) 10	-	83,040	18,220	8,640	4,320	17'-2"	10'-0"	9'-9"	9'-11"	8 1/4"
S15E-1285-06LN-2	396	(2) 15	-	94,180	18,480	8,900	4,450	17'-2"	10'-0"	9'-9"	9'-11"	8 1/4"
S15E-1285-07KN-2	378	(2) 10	-	88,080	19,340	9,280	4,640	17'-2"	11'-4"	11'-1"	11'-3"	8 1/4"
S15E-1285-07LN-2	434	(2) 15	-	100,620	19,580	9,520	4,760	17'-2"	11'-4"	11'-1"	11'-3"	8 1/4"
S15E-1285-07MN-2	472	(2) 20	-	109,100	19,700	9,640	4,820	17'-2"	11'-4"	11'-1"	11'-3"	8 1/4"
S15E-1285-09KN-2	446	(2) 10	-	101,140	23,520	11,540	3,260	17'-2"	14'-4"	14'-4"	14'-1"	8 1/4"
S15E-1285-09LN-2	506	(2) 15	-	114,200	23,760	11,780	3,380	17'-2"	14'-4"	14'-4"	14'-1"	8 1/4"
S15E-1285-09MN-2	552	(2) 20	-	124,500	23,880	11,900	3,440	17'-2"	14'-4"	14'-4"	14'-1"	8 1/4"
S15E-1285-10LN-2	528	(2) 15	-	118,840	25,260	12,320	3,380	17'-2"	15'-8"	15'-8"	15'-5"	8 1/4"
S15E-1285-10MN-2	578	(2) 20	-	129,480	25,380	12,440	3,440	17'-2"	15'-8"	15'-8"	15'-5"	8 1/4"
S15E-1285-10NN-2	620	(2) 25	-	138,460	25,440	12,500	3,470	17'-2"	15'-8"	15'-8"	15'-5"	8 1/4"
S15E-1212-07JN-2	564	(4) 7.5	(2) 15	132,440	28,320	12,620	6,310	24'-2"	11'-4"	11'-1"	11'-3"	8 1/4"
S15E-1212-07KN-2	618	(4) 10	(2) 20	144,140	28,380	12,680	6,340	24'-2"	11'-4"	11'-1"	11'-3"	8 1/4"
S15E-1212-07LC-2	664	(4) 15	(2) 25	153,900	28,880	13,180	6,590	24'-2"	11'-4"	11'-1"	11'-3"	8 1/4"
S15E-1212-09JN-2	656	(4) 7.5	(2) 15	148,980	33,540	16,120	4,650	24'-2"	14'-3"	13'-11"	14'-1"	8 1/4"
S15E-1212-09KN-2	716	(4) 10	(2) 20	162,000	33,600	16,180	4,680	24'-2"	14'-3"	13'-11"	14'-1"	8 1/4"
S15E-1212-09LC-2	766	(4) 15	(2) 25	172,840	34,100	16,680	4,930	24'-2"	14'-3"	13'-11"	14'-1"	8 1/4"
S15E-1212-09LN-2	802	(4) 15	(2) 30	182,620	34,100	16,680	4,930	24'-2"	14'-3"	13'-11"	14'-1"	8 1/4"
S15E-1212-10KN-2	752	(4) 10	(2) 20	169,000	35,020	16,900	4,680	24'-2"	15'-7"	15'-3"	15'-5"	8 1/4"
S15E-1212-10LC-2	804	(4) 15	(2) 25	180,260	35,520	17,400	4,930	24'-2"	15'-7"	15'-3"	15'-5"	8 1/4"
S15E-1212-10LN-2	842	(4) 15	(2) 30	190,440	35,520	17,400	4,930	24'-2"	15'-7"	15'-3"	15'-5"	8 1/4"
S15E-1212-10MN-2	918	(4) 20	(2) 40	207,360	35,760	17,640	5,050	24'-2"	15'-7"	15'-3"	15'-5"	8 1/4"
S15E-1212-11KN-2	774	(4) 10	(2) 20	175,120	36,760	17,620	4,680	24'-2"	16'-11"	16'-7"	16'-9"	8 1/4"
S15E-1212-11LC-2	828	(4) 15	(2) 25	186,740	37,260	18,120	4,930	24'-2"	16'-11"	16'-7"	16'-9"	8 1/4"
S15E-1212-11LN-2	868	(4) 15	(2) 30	197,240	37,260	18,120	4,930	24'-2"	16'-11"	16'-7"	16'-9"	8 1/4"
S15E-1212-11MN-2	956	(4) 20	(2) 40	214,660	37,500	18,360	5,050	24'-2"	16'-11"	16'-7"	16'-9"	8 1/4"
S15E-1212-12KN-2	802	(4) 10	(2) 20	180,560	37,500	18,360	4,680	24'-2"	18'-3"	17'-11"	18'-1"	8 1/4"
S15E-1212-12LC-2	858	(4) 15	(2) 25	192,480	38,000	18,860	4,930	24'-2"	18'-3"	17'-11"	18'-1"	8 1/4"
S15E-1212-12LN-2	898	(4) 15	(2) 30	203,240	38,000	18,860	4,930	24'-2"	18'-3"	17'-11"	18'-1"	8 1/4"
S15E-1212-12MN-2	990	(4) 20	(2) 40	221,120	38,240	19,100	5,050	24'-2"	18'-3"	17'-11"	18'-1"	8 1/4"

Model Number	Nominal Tonnage[1]	Motor HP	Optional Dual Drive Fan Motor HP	Fan (CFM)	Weights (lbs)			Dimensions [3]				
					Operating[2]	Shipping	Heaviest Section	L	H	H1	A	C
S15E-1218-07JN-2	854	(6) 7.5	(2) 15 & (2) 7.5	200,100	46,940	19,360	9,680	36'-2"	11'-10"	11'-10"	11'-9"	16 1/4"
S15E-1218-07KN-2	932	(6) 10	(2) 20 & (2) 10	217,800	47,020	19,440	9,720	36'-2"	11'-10"	11'-10"	11'-9"	16 1/4"
S15E-1218-07LC-2	1,002	(6) 15	(2) 25 & (2) 15	232,560	47,780	20,200	10,100	36'-2"	11'-10"	11'-10"	11'-9"	16 1/4"
S15E-1218-09JN-2	980	(6) 7.5	(2) 15 & (2) 7.5	224,840	54,440	24,260	6,970	36'-2"	14'-9"	14'-8"	14'-7"	16 1/4"
S15E-1218-09KN-2	1,070	(6) 10	(2) 20 & (2) 10	244,540	54,520	24,340	7,010	36'-2"	14'-9"	14'-8"	14'-7"	16 1/4"
S15E-1218-09LC-2	1,144	(6) 15	(2) 25 & (2) 15	260,920	55,280	25,100	7,390	36'-2"	14'-9"	14'-8"	14'-7"	16 1/4"
S15E-1218-09LN-2	1,212	(6) 15	(2) 30 & (2) 15	275,720	55,280	25,100	7,390	36'-2"	14'-9"	14'-8"	14'-7"	16 1/4"
S15E-1218-10KN-2	1,122	(6) 10	(2) 20 & (2) 10	255,020	57,120	25,360	7,010	36'-2"	16'-1"	16'-0"	15'-11"	16 1/4"
S15E-1218-10LC-2	1,200	(6) 15	(2) 25 & (2) 15	272,040	57,880	26,120	7,390	36'-2"	16'-1"	16'-0"	15'-11"	16 1/4"
S15E-1218-10LN-2	1,258	(6) 15	(2) 30 & (2) 15	287,420	57,880	26,120	7,390	36'-2"	16'-1"	16'-0"	15'-11"	16 1/4"
S15E-1218-10MN-2	1,388	(6) 20	(2) 40 & (2) 20	312,980	58,240	26,480	7,570	36'-2"	16'-1"	16'-0"	15'-11"	16 1/4"
S15E-1218-11KN-2	1,168	(6) 10	(2) 20 & (2) 10	264,220	58,680	26,400	7,010	36'-2"	17'-5"	17'-4"	17'-3"	16 1/4"
S15E-1218-11LC-2	1,250	(6) 15	(2) 25 & (2) 15	281,780	59,440	27,160	7,390	36'-2"	17'-5"	17'-4"	17'-3"	16 1/4"
S15E-1218-11LN-2	1,310	(6) 15	(2) 30 & (2) 15	297,620	59,440	27,160	7,390	36'-2"	17'-5"	17'-4"	17'-3"	16 1/4"
S15E-1218-11MN-2	1,444	(6) 20	(2) 40 & (2) 20	323,940	59,800	27,520	7,570	36'-2"	17'-5"	17'-4"	17'-3"	16 1/4"
S15E-1218-12KN-2	1,210	(6) 10	(2) 20 & (2) 10	272,360	60,780	27,460	7,010	36'-2"	18'-9"	18'-8"	18'-7"	16 1/4"
S15E-1218-12LC-2	1,294	(6) 15	(2) 25 & (2) 15	290,380	61,540	28,220	7,390	36'-2"	18'-9"	18'-8"	18'-7"	16 1/4"
S15E-1218-12LN-2	1,356	(6) 15	(2) 30 & (2) 15	306,640	61,540	28,220	7,390	36'-2"	18'-9"	18'-8"	18'-7"	16 1/4"
S15E-1218-12MN-2	1,494	(6) 20	(2) 40 & (2) 20	333,640	61,900	28,580	7,570	36'-2"	18'-9"	18'-8"	18'-7"	16 1/4"

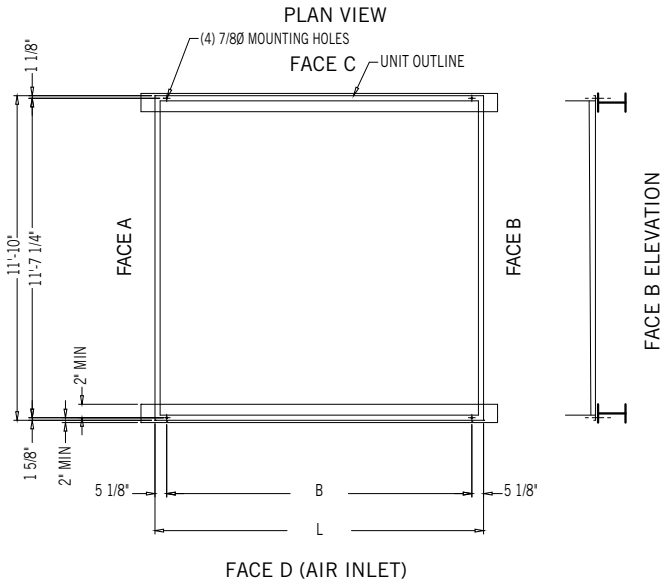
NOTES FOR DOUBLE CELL UNITS:

1. Nominal tons of cooling represents the capability to cool 3 USGPM of water from a 95°F entering water temperature to an 85°F leaving water temperature at a 78°F entering wet-bulb temperature.
2. Operating weight is based on the water level in the cold water basin at overflow height. If a lower operating weight is needed to meet design requirements, your local BAC Representative can provide additional assistance.
3. Refer to **page B65** for dimensional reference drawings.

Do not use for construction. Refer to factory certified dimensions. This catalog includes data current at the time of publication, which should be reconfirmed at the time of purchase.

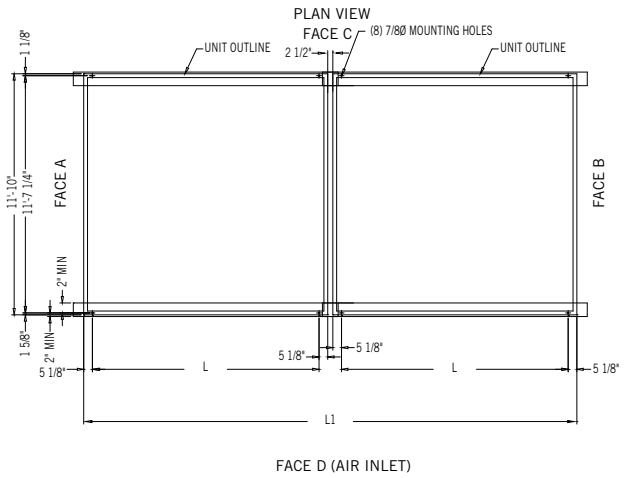
Series 1500 Structural Support

The recommended support arrangement for the Series 1500 Cooling Tower consists of parallel structural members positioned as shown in the following drawings. In addition to providing adequate support, the members also serve to raise the unit above any solid foundation to ensure access to the bottom of the tower. The Series 1500 may also be supported on columns at the anchor bolt locations shown in Plan B). To support a Series 1500 Cooling Tower on columns or in an alternate steel support arrangement, consult your local BAC Representative. Upgraded structures for high wind and seismic load regions will require additional mounting holes.



FACE D (AIR INLET)

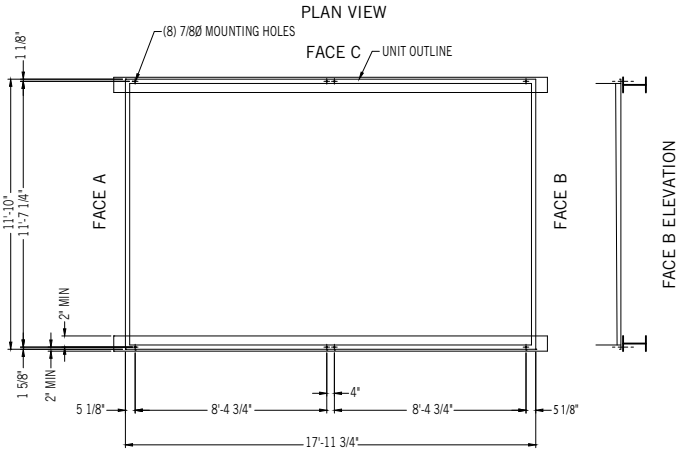
Plan A: Single Cell Unit



FACE D (AIR INLET)

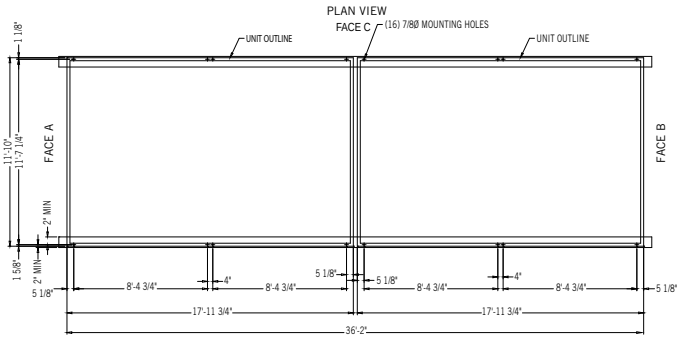
Plan A: Double Cell Unit

Model Number	B	L	L1
S15E/XES15E-1285	7'- 7 1/2"	8'- 5 3/4"	17'-2"
S15E/XES15E-1212	11'- 1 1/2"	11'- 11 3/4"	24'-2"

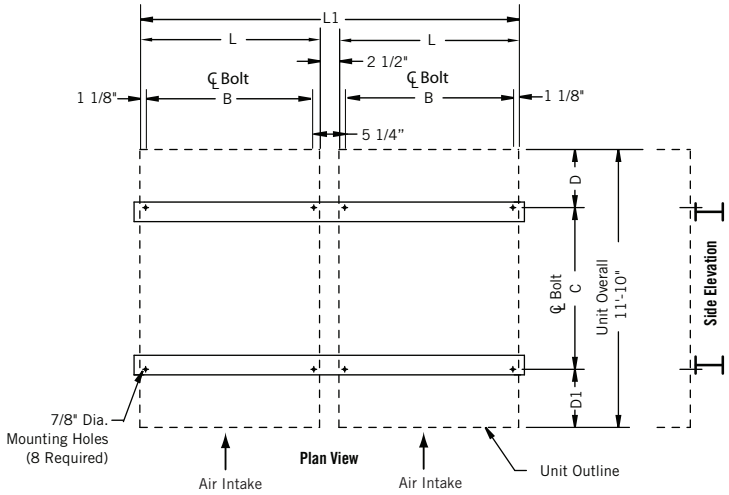


FACE D (AIR INLET)

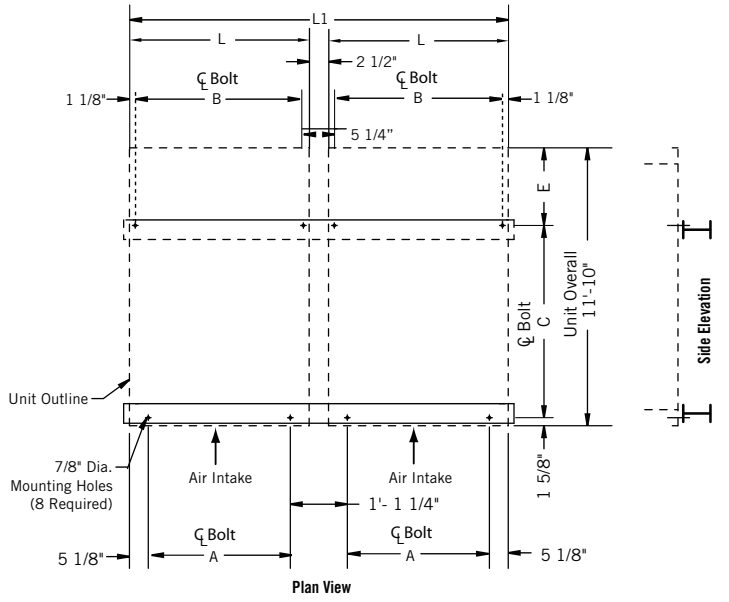
Plan A: S15E/XES15E-1218 Single Cell Unit



Plan A: S15E/XES15E-1218 Double Cell Unit



Plan C: Cantilever Inlet and Blank-Off (Double Cell Unit Shown)



Plan C: Cantilever Blank-Off Only (Double Cell Unit Shown)

NOTES:

1. Support members and anchor bolts shall be designed, furnished, and installed by others.
2. Design of support members and anchor bolts shall be in accordance with the strength and serviceability requirements of the applicable building code and project specifications.
3. Support members shall be level at the top.
4. Refer to the certified unit support drawing for loading and additional support requirements.
5. If vibration isolation (provided by others) is used, the isolators should be located under a structural base that complies with one of the recommended support arrangements. Contact your local BAC Representative for all other isolator configurations.
6. When using Alternative Plan C support arrangements with optional bottom water outlet, size and location restrictions will apply to water outlet piping. Consider the Cantilevered Plan C support arrangement or consult your local BAC Representative for details.

RECOMMENDED ALTERNATIVE STRUCTURAL SUPPORT FOR UNIT REPLACEMENT (PLAN C)

Model Number	Unit Replaced	A	B	C	D	D1	E	L	L1
S15E/XES15E-1285	VLT/VST	7'-7 1/2"	8'-3 1/2"	8'-9 1/8"	1'-8"	1'-4 7/8"	2'-11 1/4"	8'-5 3/4"	17'-2"
	CFT/Series 3000	7'-7 1/2"	8'-3 1/2"	8'-0"	2'-5 1/8"	1'-4 7/8"	3'-8 3/8"	8'-5 3/4"	17'-2"
S15E/XES15E-1212	VLT/VST	11'-1 1/2"	11'-9 1/2"	8'-11 1/4"	1'-5 3/8"	1'-5 3/8"	2'-9 1/8"	11'-11 3/4"	24'-2"
	VXT/VXMT	11'-1 1/2"	11'-9 1/2"	9'-7 1/2"	1'-1 1/4"	1'-1 1/4"	2'-0 7/8"	11'-11 3/4"	24'-2"
	CFT/Series 3000	11'-1 1/2"	11'-9 1/2"	8'-0"	1'-11"	1'-11"	3'-8 3/8"	11'-11 3/4"	24'-2"
	Series 3000	11'-1 1/2"	11'-9 1/2"	9'-6"	1'-2"	1'-2"	2'-2 3/8"	11'-11 3/4"	24'-2"
S15E/XES15E-1218	VLT/VST	17'-1 1/2"	17'-9 1/2"	8'-11 1/4"	1'-5 3/8"	1'-5 3/8"	2'-9 1/8"	17'-11 3/4"	36'-2"
	VXT/VXMT	17'-1 1/2"	17'-9 1/2"	9'-7 1/2"	1'-1 1/4"	1'-1 1/4"	2'-0 7/8"	17'-11 3/4"	36'-2"