<table>
<thead>
<tr>
<th>Page</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>B41</td>
<td>SERIES 1500 COOLING TOWER</td>
</tr>
<tr>
<td>B43</td>
<td>SERIES 1500 XE MODELS</td>
</tr>
<tr>
<td>B45</td>
<td>CONSTRUCTION DETAILS</td>
</tr>
<tr>
<td>B47</td>
<td>BENEFITS</td>
</tr>
<tr>
<td>B49</td>
<td>CUSTOM FEATURES &amp; OPTIONS</td>
</tr>
<tr>
<td>B61</td>
<td>ENGINEERING DATA</td>
</tr>
<tr>
<td>B69</td>
<td>STRUCTURAL SUPPORT</td>
</tr>
<tr>
<td>B70</td>
<td>ALTERNATIVE STRUCTURAL SUPPORT</td>
</tr>
</tbody>
</table>
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.
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
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

<table>
<thead>
<tr>
<th>Fan HP</th>
<th>Series 1500</th>
<th>Competition</th>
<th>Competition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Footprint (L x W x H)</td>
<td>12’x12’x14.2’</td>
<td>12’x10’x15.5’</td>
<td>12’x12’x16.7’</td>
</tr>
<tr>
<td>Nominal Tons</td>
<td>401</td>
<td>395</td>
<td>423</td>
</tr>
<tr>
<td>Easy Service Access</td>
<td>✔</td>
<td>—</td>
<td>✔</td>
</tr>
</tbody>
</table>

**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.

### Operating Cost Savings

**Hospital (2500 EFLH)**

- 40 HP - Competition: $9,000
- 35 HP - Competition: $8,000
- 25 HP - Series 1500: $7,000
- Operating Cost Savings: $2,000

**Office Building (2000 EFLH)**

- 40 HP - Competition: $9,000
- 35 HP - Competition: $8,000
- 25 HP - Series 1500: $7,000
- Operating Cost Savings: $2,000

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

**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

**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

### 400-Ton Example

<table>
<thead>
<tr>
<th></th>
<th>Existing Unit</th>
<th>Series 1500</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Footprint (L x W x H)</strong></td>
<td>12’x12’x16.3’</td>
<td>12’x12’x15.6’</td>
</tr>
<tr>
<td><strong>HP</strong></td>
<td>50</td>
<td>25</td>
</tr>
<tr>
<td><strong>Annual Operating Costs</strong></td>
<td>$9,000</td>
<td>$4,500</td>
</tr>
</tbody>
</table>
The Series 1500 XE models are the newest addition to BAC’s Series 1500 Cooling Tower portfolio. They 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

---

**400-Ton Selection Series 1500 vs Series 1500 XE Model Comparison of First & Operating Cost**

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

LEED® Certification Contributions

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

Series 1500 XE Cooling Tower

LEED® Point Breakdown for New Construction

- Sustainable Sites: 26 Points
- Energy & Atmosphere: 30 Points
- Water Efficiency: 14 Points
- Materials & Resources: 14 Points
- Indoor Environmental Quality: 15 Points
- Regional Priority: 4 Points
- Innovation & Design Process: 6 Points

- 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

BAC MOTOR & DRIVE SERIES 1500 CONSTRUCTION DETAILS

1. [Component 1]
2. [Component 2]
3. [Component 3]
4. [Component 4]
5. [Component 5]
6. [Component 6]
7. [Component 7]
8. [Component 8]
**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

**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 L10 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

**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

**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%

**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

**Combined Inlet Shields**
- Corrosion resistant
- Maintenance free
- UV-protected finish
- Reduces sunlight and algae growth

**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

**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 Benefits

➢ Low Environmental Impact

 ENERGY EFFICIENT
- Units meet or exceed ASHRAE Standard 90.1 energy efficient requirements
- Premium efficient fan motors with VFD capabilities
- Gravity distribution with low pump head requirements
- Independent fan operation provides redundancy and energy savings

 SOUND REDUCTION OPTIONS
- Standard fan(s) are high efficiency and low sound
- Particularly sound sensitive installations can be accommodated by facing the quiet blank-off panel in the sound sensitive direction
- For further reduced sound levels, Low Sound Fans, Whisper Quiet Fans and sound attenuation are available

➢ Durable Construction

- Meets wind and seismic requirements of the International Building Code (IBC)
- Meets the most stringent wind and seismic requirements in North America. Please contact your local representative to discuss your specific project requirements.
- Rugged G-235 steel panels make up the structure of the unit
- Enhanced longevity with a variety of durable materials of construction (see page B49 for details)

➢ Reliable Year-Round Operation

- Removable Combined Inlet Shields allow for easy visual inspection of the air-water interface
- Superior winter operation
- BALTIDRIVE® POWER TRAIN FAN SYSTEM
  - Backed by BAC’s comprehensive 5-year motor and drive warranty
  - Corrosion resistant cast aluminum sheaves with specially designed powerband belts
  - Cooling tower duty motors designed for hostile environments
Easy Maintenance

- Crossflow configuration provides direct access for easy maintenance to the cold water basin, hot water basin and drive system
- BALTIDRIVE® Power Train is designed for ease of maintenance
- Combined Inlet Shields block sunlight, reducing the potential for algae growth in the cold water basin
- Make-up, drain, overflow and optional basin accessories are accessible from the access doors and standard internal walkway
- Large hinged access doors and standard internal walkway provide easy entry to the spacious plenum for routine maintenance to drive system
- Louver face platforms and internal service platforms further facilitate maintenance (option)
- Basin sweeper piping prevents sediment and debris from collecting in the cold water basin (option)
- Motor removal system facilitates easy motor replacement (option)

Low Installed Cost

- Single air intake maximizes layout flexibility
- Single water inlet connection allows for easy piping arrangements
- Adaptable steel support configuration options, utilizing pre-existing support steel for replacement units
- Modular design minimizes installation time, weight, and crane costs
- All connections 4” and larger are furnished with beveled for weld and grooved for mechanical couplings to simply field piping
- Knockdown units are available for field installation
- Single piece lift available on all models
- Factory pre-assembled external platforms reduce installation time (option)
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

G-235 hot-dip galvanized steel is the heaviest commercially available galvanized steel, universally recognized for its strength and corrosion resistance. To assure long-life, G-235 hot-dip 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 (OPTION)

The TriArmor® Corrosion Protection System consists of heavy gauge G-235 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 Type 304 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 over 1,000 successful installations in North America. Every basin is leak tested at the factory and warranted against leaks and corrosion for 5 years.
**THERMOSETTING HYBRID POLYMER (OPTION)**

A thermosetting hybrid polymer, used to extend equipment life, is applied to select G-235 hot-dip galvanized steel components of the unit. The polymerized coating is baked onto the G-235 hot-dipped 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 loosing adhesion.

**STAINLESS STEEL (OPTION)**

Several Type 304 stainless steel material of construction options are available.

- **WELDED TYPE 304 STAINLESS STEEL COLD WATER BASIN**

  A Type 304 welded stainless steel cold water basin is available. All steel panels and structural members of the cold water basin are constructed from Type 304 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 Type 304 stainless steel.

- **ALL TYPE 304 STAINLESS STEEL CONSTRUCTION**

  All unit structural elements and the hot and cold water basins are constructed of Type 304 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.
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.

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.

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.
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 eliminates 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.

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.

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.
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.

HEATER kW DATA

<table>
<thead>
<tr>
<th>Model Number</th>
<th>0°F (-17.8°C) Ambient Heaters</th>
<th>-20°F (-28.9°C) Ambient Heaters</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number of Heaters</td>
<td>kW per Heater</td>
</tr>
<tr>
<td>S15E/XES15E-1285</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>S15E/XES15E-1212</td>
<td>1</td>
<td>12</td>
</tr>
<tr>
<td>S15E/XES15E-1218</td>
<td>2</td>
<td>10</td>
</tr>
</tbody>
</table>

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 J233.

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.
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.

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.

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 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.

**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.

**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).
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 Type 304 stainless steel cold water basins and TriArmor® Corrosion Protection System cold water basins are excluded due to the need for in-plant assembly.

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.

**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.
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.

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.

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.
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.

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.

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.

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.

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.
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.

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](http://www.BaltimoreAircoil.com).

**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

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Nominal Tonnage (1)</th>
<th>Motor HP</th>
<th>Optional Dual Drive Fan Motor HP</th>
<th>Fan Operating (2)</th>
<th>Weights (lbs)</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Operating</td>
<td>L</td>
</tr>
<tr>
<td>S15E-1285-06JN</td>
<td>158</td>
<td>7.5</td>
<td>-</td>
<td>38,020</td>
<td>9,100</td>
<td>8'-4&quot;</td>
</tr>
<tr>
<td>S15E-1285-06KN</td>
<td>173</td>
<td>7.5</td>
<td>-</td>
<td>41,520</td>
<td>9,110</td>
<td>8'-4&quot;</td>
</tr>
<tr>
<td>S15E-1285-06LN</td>
<td>198</td>
<td>10</td>
<td>-</td>
<td>47,090</td>
<td>9,240</td>
<td>8'-6&quot;</td>
</tr>
<tr>
<td>S15E-1285-07KN</td>
<td>189</td>
<td>10</td>
<td>-</td>
<td>44,040</td>
<td>9,670</td>
<td>11'-4&quot;</td>
</tr>
<tr>
<td>S15E-1285-07LN</td>
<td>217</td>
<td>15</td>
<td>-</td>
<td>50,310</td>
<td>9,790</td>
<td>8'-6&quot;</td>
</tr>
<tr>
<td>S15E-1285-07MN</td>
<td>236</td>
<td>20</td>
<td>-</td>
<td>54,550</td>
<td>8,950</td>
<td>8'-4&quot;</td>
</tr>
<tr>
<td>S15E-1285-09KN</td>
<td>223</td>
<td>10</td>
<td>-</td>
<td>50,570</td>
<td>11,760</td>
<td>8'-6&quot;</td>
</tr>
<tr>
<td>S15E-1285-09LN</td>
<td>253</td>
<td>15</td>
<td>-</td>
<td>57,100</td>
<td>11,880</td>
<td>8'-6&quot;</td>
</tr>
<tr>
<td>S15E-1285-09MN</td>
<td>276</td>
<td>20</td>
<td>-</td>
<td>62,250</td>
<td>11,940</td>
<td>8'-6&quot;</td>
</tr>
<tr>
<td>S15E-1285-10LN</td>
<td>264</td>
<td>15</td>
<td>-</td>
<td>59,420</td>
<td>12,630</td>
<td>8'-6&quot;</td>
</tr>
<tr>
<td>S15E-1285-10MN</td>
<td>289</td>
<td>20</td>
<td>-</td>
<td>64,740</td>
<td>12,690</td>
<td>8'-6&quot;</td>
</tr>
<tr>
<td>S15E-1285-10NN</td>
<td>310</td>
<td>25</td>
<td>-</td>
<td>69,230</td>
<td>12,720</td>
<td>8'-6&quot;</td>
</tr>
<tr>
<td>S15E-1212-07JN</td>
<td>282</td>
<td>(2) 7.5</td>
<td>(1) 15</td>
<td>66,220</td>
<td>14,160</td>
<td>12'-0&quot;</td>
</tr>
<tr>
<td>S15E-1212-07KN</td>
<td>309</td>
<td>(2) 10</td>
<td>(1) 20</td>
<td>72,070</td>
<td>14,190</td>
<td>12'-0&quot;</td>
</tr>
<tr>
<td>S15E-1212-07LC</td>
<td>332</td>
<td>(2) 15</td>
<td>(1) 25</td>
<td>76,950</td>
<td>14,400</td>
<td>12'-0&quot;</td>
</tr>
<tr>
<td>S15E-1212-09JN</td>
<td>328</td>
<td>(2) 7.5</td>
<td>(1) 15</td>
<td>74,490</td>
<td>16,770</td>
<td>12'-0&quot;</td>
</tr>
<tr>
<td>S15E-1212-09KN</td>
<td>358</td>
<td>(2) 10</td>
<td>(1) 20</td>
<td>81,000</td>
<td>16,800</td>
<td>12'-0&quot;</td>
</tr>
<tr>
<td>S15E-1212-09LC</td>
<td>383</td>
<td>(2) 15</td>
<td>(1) 25</td>
<td>86,420</td>
<td>17,050</td>
<td>12'-0&quot;</td>
</tr>
<tr>
<td>S15E-1212-09LN</td>
<td>401</td>
<td>(2) 15</td>
<td>(1) 30</td>
<td>91,310</td>
<td>17,050</td>
<td>12'-0&quot;</td>
</tr>
<tr>
<td>S15E-1212-10JN</td>
<td>376</td>
<td>(2) 10</td>
<td>(1) 20</td>
<td>84,500</td>
<td>17,510</td>
<td>12'-0&quot;</td>
</tr>
<tr>
<td>S15E-1212-10KN</td>
<td>402</td>
<td>(2) 15</td>
<td>(1) 25</td>
<td>90,130</td>
<td>17,760</td>
<td>12'-0&quot;</td>
</tr>
<tr>
<td>S15E-1212-10LC</td>
<td>421</td>
<td>(2) 15</td>
<td>(1) 30</td>
<td>95,220</td>
<td>17,760</td>
<td>12'-0&quot;</td>
</tr>
<tr>
<td>S15E-1212-10LN</td>
<td>459</td>
<td>(2) 20</td>
<td>(1) 40</td>
<td>103,680</td>
<td>17,880</td>
<td>12'-0&quot;</td>
</tr>
<tr>
<td>S15E-1212-11JN</td>
<td>387</td>
<td>(2) 10</td>
<td>(1) 20</td>
<td>87,560</td>
<td>18,380</td>
<td>12'-0&quot;</td>
</tr>
<tr>
<td>S15E-1212-11KN</td>
<td>414</td>
<td>(2) 15</td>
<td>(1) 25</td>
<td>93,370</td>
<td>18,630</td>
<td>12'-0&quot;</td>
</tr>
<tr>
<td>S15E-1212-11LC</td>
<td>434</td>
<td>(2) 15</td>
<td>(1) 30</td>
<td>98,620</td>
<td>18,830</td>
<td>12'-0&quot;</td>
</tr>
<tr>
<td>S15E-1212-12JN</td>
<td>478</td>
<td>(2) 20</td>
<td>(1) 40</td>
<td>107,330</td>
<td>18,750</td>
<td>12'-0&quot;</td>
</tr>
<tr>
<td>S15E-1212-12KN</td>
<td>491</td>
<td>(2) 20</td>
<td>(1) 40</td>
<td>109,280</td>
<td>18,750</td>
<td>12'-0&quot;</td>
</tr>
<tr>
<td>S15E-1212-12LC</td>
<td>495</td>
<td>(2) 20</td>
<td>(1) 40</td>
<td>110,560</td>
<td>19,120</td>
<td>12'-0&quot;</td>
</tr>
</tbody>
</table>

**Notes:**
1. Nominal Tonnage
2. Motor HP
3. Optional Dual Drive Fan Motor HP
4. Fan Operating (CFM)
5. Weights (lbs)
6. Dimensions

**Questions? Call 410.799.6200 or visit [www.baltimoreaircoil.com](http://www.baltimoreaircoil.com)**
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 B61 for dimensional reference drawings.

4. Unless otherwise indicated all connections 3” and smaller are MPT. Connections 4” and larger are beveled for welding and mechanically grooved.

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 Data

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Nominal Tonnage</th>
<th>Motor HP</th>
<th>Optional Dual Drive Fan Motor HP</th>
<th>Fan (CFM)</th>
<th>Weights (lbs)</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Operating</td>
<td>Shipping</td>
<td>Heaviest Section</td>
</tr>
<tr>
<td>XES15E-1285-06EN</td>
<td>92</td>
<td>1.5</td>
<td>-</td>
<td>22,710</td>
<td>8,990</td>
<td>4,200</td>
</tr>
<tr>
<td>XES15E-1285-06FN</td>
<td>101</td>
<td>2</td>
<td>-</td>
<td>24,830</td>
<td>9,010</td>
<td>4,220</td>
</tr>
<tr>
<td>XES15E-1285-06GN</td>
<td>117</td>
<td>3</td>
<td>-</td>
<td>28,460</td>
<td>9,040</td>
<td>4,250</td>
</tr>
<tr>
<td>XES15E-1285-07EN</td>
<td>101</td>
<td>1.5</td>
<td>-</td>
<td>24,350</td>
<td>9,540</td>
<td>4,510</td>
</tr>
<tr>
<td>XES15E-1285-07FN</td>
<td>111</td>
<td>2</td>
<td>-</td>
<td>26,630</td>
<td>9,560</td>
<td>4,530</td>
</tr>
<tr>
<td>XES15E-1285-07GN</td>
<td>128</td>
<td>3</td>
<td>-</td>
<td>30,500</td>
<td>9,060</td>
<td>4,560</td>
</tr>
<tr>
<td>XES15E-1285-07HN</td>
<td>140</td>
<td>4</td>
<td>-</td>
<td>34,280</td>
<td>9,080</td>
<td>4,580</td>
</tr>
<tr>
<td>XES15E-1285-07JN</td>
<td>153</td>
<td>7.5</td>
<td>-</td>
<td>40,690</td>
<td>9,100</td>
<td>4,680</td>
</tr>
<tr>
<td>XES15E-1285-09EN</td>
<td>131</td>
<td>2</td>
<td>-</td>
<td>30,670</td>
<td>9,540</td>
<td>5,660</td>
</tr>
<tr>
<td>XES15E-1285-09FN</td>
<td>140</td>
<td>3</td>
<td>-</td>
<td>35,050</td>
<td>9,560</td>
<td>5,680</td>
</tr>
<tr>
<td>XES15E-1285-09GN</td>
<td>151</td>
<td>3</td>
<td>-</td>
<td>39,370</td>
<td>9,580</td>
<td>5,700</td>
</tr>
<tr>
<td>XES15E-1285-09HN</td>
<td>178</td>
<td>5</td>
<td>-</td>
<td>48,700</td>
<td>11,650</td>
<td>5,700</td>
</tr>
<tr>
<td>XES15E-1285-09JN</td>
<td>204</td>
<td>7.5</td>
<td>-</td>
<td>52,600</td>
<td>12,400</td>
<td>5,930</td>
</tr>
<tr>
<td>XES15E-1285-10EN</td>
<td>167</td>
<td>2</td>
<td>-</td>
<td>40,230</td>
<td>13,940</td>
<td>6,090</td>
</tr>
<tr>
<td>XES15E-1285-10FN</td>
<td>183</td>
<td>3</td>
<td>-</td>
<td>43,890</td>
<td>13,980</td>
<td>6,130</td>
</tr>
<tr>
<td>XES15E-1285-10GN</td>
<td>208</td>
<td>4</td>
<td>-</td>
<td>46,940</td>
<td>14,040</td>
<td>6,190</td>
</tr>
<tr>
<td>XES15E-1285-10HN</td>
<td>236</td>
<td>5</td>
<td>-</td>
<td>50,580</td>
<td>14,080</td>
<td>6,250</td>
</tr>
<tr>
<td>XES15E-1285-10JN</td>
<td>262</td>
<td>7.5</td>
<td>-</td>
<td>55,490</td>
<td>14,120</td>
<td>6,310</td>
</tr>
<tr>
<td>XES15E-1285-11EN</td>
<td>195</td>
<td>2</td>
<td>-</td>
<td>45,400</td>
<td>16,550</td>
<td>7,840</td>
</tr>
<tr>
<td>XES15E-1285-11FN</td>
<td>213</td>
<td>3</td>
<td>-</td>
<td>49,500</td>
<td>16,590</td>
<td>7,880</td>
</tr>
<tr>
<td>XES15E-1285-11GN</td>
<td>248</td>
<td>4</td>
<td>-</td>
<td>53,940</td>
<td>17,260</td>
<td>8,200</td>
</tr>
<tr>
<td>XES15E-1285-11HN</td>
<td>284</td>
<td>5</td>
<td>-</td>
<td>58,300</td>
<td>17,300</td>
<td>8,240</td>
</tr>
<tr>
<td>XES15E-1285-11JN</td>
<td>320</td>
<td>7.5</td>
<td>-</td>
<td>63,020</td>
<td>17,380</td>
<td>8,300</td>
</tr>
<tr>
<td>XES15E-1285-12EN</td>
<td>236</td>
<td>2</td>
<td>-</td>
<td>48,700</td>
<td>17,650</td>
<td>8,560</td>
</tr>
<tr>
<td>XES15E-1285-12FN</td>
<td>255</td>
<td>3</td>
<td>-</td>
<td>52,930</td>
<td>17,760</td>
<td>8,600</td>
</tr>
<tr>
<td>XES15E-1285-12GN</td>
<td>290</td>
<td>4</td>
<td>-</td>
<td>57,490</td>
<td>17,860</td>
<td>8,640</td>
</tr>
<tr>
<td>XES15E-1285-12HN</td>
<td>326</td>
<td>5</td>
<td>-</td>
<td>62,050</td>
<td>17,960</td>
<td>8,680</td>
</tr>
<tr>
<td>XES15E-1285-12JN</td>
<td>362</td>
<td>7.5</td>
<td>-</td>
<td>66,710</td>
<td>18,060</td>
<td>8,720</td>
</tr>
</tbody>
</table>
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 B61 for dimensional reference drawings.
4. Unless otherwise indicated all connections 3” and smaller are MPT. Connections 4” and larger are beveled for welding and mechanically grooved.
## Series 1500 Double Cell Unit Data

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Nominal Tonnage(1)</th>
<th>Motor HP</th>
<th>Optional Dual Drive Fan Motor HP</th>
<th>Fan (CFM)</th>
<th>Heaviest Section</th>
<th>L</th>
<th>H</th>
<th>H1</th>
<th>A</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>S15E-1285-06JN-2</td>
<td>(2) 7.5</td>
<td>-</td>
<td>76,040</td>
<td>18,200</td>
<td>6,200</td>
<td>4,310</td>
<td>17'-2&quot;</td>
<td>10'-0&quot;</td>
<td>9'-9&quot;</td>
<td>9'-11&quot;</td>
</tr>
<tr>
<td>S15E-1285-06KN-2</td>
<td>(2) 10</td>
<td>-</td>
<td>83,040</td>
<td>18,220</td>
<td>6,460</td>
<td>4,320</td>
<td>17'-2&quot;</td>
<td>10'-0&quot;</td>
<td>9'-9&quot;</td>
<td>9'-11&quot;</td>
</tr>
<tr>
<td>S15E-1285-06LN-2</td>
<td>(2) 15</td>
<td>-</td>
<td>94,180</td>
<td>18,480</td>
<td>9,520</td>
<td>4,760</td>
<td>17'-2&quot;</td>
<td>11'-4&quot;</td>
<td>11'-1&quot;</td>
<td>11'-3&quot;</td>
</tr>
<tr>
<td>S15E-1285-07JN-2</td>
<td>(2) 15</td>
<td>-</td>
<td>100,620</td>
<td>19,580</td>
<td>9,520</td>
<td>4,760</td>
<td>17'-2&quot;</td>
<td>11'-4&quot;</td>
<td>11'-1&quot;</td>
<td>11'-3&quot;</td>
</tr>
<tr>
<td>S15E-1285-07KN-2</td>
<td>(2) 10</td>
<td>-</td>
<td>109,100</td>
<td>19,700</td>
<td>9,640</td>
<td>4,820</td>
<td>17'-2&quot;</td>
<td>11'-4&quot;</td>
<td>11'-1&quot;</td>
<td>11'-3&quot;</td>
</tr>
<tr>
<td>S15E-1285-07LN-2</td>
<td>(2) 15</td>
<td>-</td>
<td>118,840</td>
<td>23,760</td>
<td>11,780</td>
<td>5,380</td>
<td>17'-2&quot;</td>
<td>11'-4&quot;</td>
<td>11'-1&quot;</td>
<td>11'-3&quot;</td>
</tr>
<tr>
<td>S15E-1285-07MN-2</td>
<td>(2) 20</td>
<td>-</td>
<td>129,480</td>
<td>23,880</td>
<td>11,900</td>
<td>5,440</td>
<td>17'-2&quot;</td>
<td>11'-4&quot;</td>
<td>11'-1&quot;</td>
<td>11'-3&quot;</td>
</tr>
<tr>
<td>S15E-1285-09JN-2</td>
<td>(4) 7.5</td>
<td>(2) 10</td>
<td>132,440</td>
<td>28,320</td>
<td>12,620</td>
<td>6,310</td>
<td>24'-2&quot;</td>
<td>11'-4&quot;</td>
<td>11'-1&quot;</td>
<td>11'-3&quot;</td>
</tr>
<tr>
<td>S15E-1285-09KN-2</td>
<td>(4) 10</td>
<td>(2) 20</td>
<td>144,140</td>
<td>28,380</td>
<td>12,680</td>
<td>6,340</td>
<td>24'-2&quot;</td>
<td>11'-4&quot;</td>
<td>11'-1&quot;</td>
<td>11'-3&quot;</td>
</tr>
<tr>
<td>S15E-1285-09LN-2</td>
<td>(4) 15</td>
<td>(2) 25</td>
<td>153,900</td>
<td>28,880</td>
<td>13,180</td>
<td>6,590</td>
<td>24'-2&quot;</td>
<td>11'-4&quot;</td>
<td>11'-1&quot;</td>
<td>11'-3&quot;</td>
</tr>
<tr>
<td>S15E-1285-10JN-2</td>
<td>(4) 7.5</td>
<td>(2) 10</td>
<td>148,980</td>
<td>33,540</td>
<td>16,120</td>
<td>4,650</td>
<td>24'-2&quot;</td>
<td>15'-8&quot;</td>
<td>15'-5&quot;</td>
<td>15'-3&quot;</td>
</tr>
<tr>
<td>S15E-1285-10KN-2</td>
<td>(4) 10</td>
<td>(2) 20</td>
<td>162,000</td>
<td>33,600</td>
<td>16,180</td>
<td>4,680</td>
<td>24'-2&quot;</td>
<td>15'-8&quot;</td>
<td>15'-5&quot;</td>
<td>15'-3&quot;</td>
</tr>
<tr>
<td>S15E-1285-10LN-2</td>
<td>(4) 15</td>
<td>(2) 25</td>
<td>172,840</td>
<td>34,100</td>
<td>16,680</td>
<td>4,930</td>
<td>24'-2&quot;</td>
<td>15'-8&quot;</td>
<td>15'-5&quot;</td>
<td>15'-3&quot;</td>
</tr>
<tr>
<td>S15E-1285-10MN-2</td>
<td>(4) 20</td>
<td>(2) 30</td>
<td>182,620</td>
<td>34,100</td>
<td>16,680</td>
<td>4,930</td>
<td>24'-2&quot;</td>
<td>15'-8&quot;</td>
<td>15'-5&quot;</td>
<td>15'-3&quot;</td>
</tr>
<tr>
<td>S15E-1285-11JN-2</td>
<td>(4) 7.5</td>
<td>(2) 10</td>
<td>169,000</td>
<td>35,020</td>
<td>17,400</td>
<td>4,680</td>
<td>25'-2&quot;</td>
<td>15'-7&quot;</td>
<td>15'-3&quot;</td>
<td>15'-5&quot;</td>
</tr>
<tr>
<td>S15E-1285-11KN-2</td>
<td>(4) 10</td>
<td>(2) 20</td>
<td>180,260</td>
<td>35,520</td>
<td>17,400</td>
<td>4,930</td>
<td>25'-2&quot;</td>
<td>15'-7&quot;</td>
<td>15'-3&quot;</td>
<td>15'-5&quot;</td>
</tr>
<tr>
<td>S15E-1285-11LN-2</td>
<td>(4) 15</td>
<td>(2) 30</td>
<td>190,440</td>
<td>36,340</td>
<td>17,400</td>
<td>4,930</td>
<td>25'-2&quot;</td>
<td>15'-7&quot;</td>
<td>15'-3&quot;</td>
<td>15'-5&quot;</td>
</tr>
<tr>
<td>S15E-1285-12JN-2</td>
<td>(4) 7.5</td>
<td>(2) 15</td>
<td>175,120</td>
<td>33,540</td>
<td>17,400</td>
<td>4,650</td>
<td>26'-2&quot;</td>
<td>16'-11&quot;</td>
<td>16'-7&quot;</td>
<td>16'-9&quot;</td>
</tr>
<tr>
<td>S15E-1285-12KN-2</td>
<td>(4) 10</td>
<td>(2) 20</td>
<td>186,740</td>
<td>35,760</td>
<td>17,640</td>
<td>5,050</td>
<td>26'-2&quot;</td>
<td>16'-11&quot;</td>
<td>16'-7&quot;</td>
<td>16'-9&quot;</td>
</tr>
<tr>
<td>S15E-1285-12LN-2</td>
<td>(4) 15</td>
<td>(2) 25</td>
<td>192,480</td>
<td>36,670</td>
<td>17,620</td>
<td>4,880</td>
<td>26'-2&quot;</td>
<td>16'-11&quot;</td>
<td>16'-7&quot;</td>
<td>16'-9&quot;</td>
</tr>
<tr>
<td>S15E-1285-12MN-2</td>
<td>(4) 20</td>
<td>(2) 30</td>
<td>207,360</td>
<td>38,000</td>
<td>18,860</td>
<td>4,930</td>
<td>26'-2&quot;</td>
<td>16'-11&quot;</td>
<td>16'-7&quot;</td>
<td>16'-9&quot;</td>
</tr>
</tbody>
</table>
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 B61 for dimensional reference drawings.

4. Unless otherwise indicated all connections 3” and smaller are MPT. Connections 4” and larger are beveled for welding and mechanically grooved.

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.
The recommended support arrangement for the Series 1500 Cooling Tower consists of parallel I-beams positioned as shown in the following drawings. Besides providing adequate support, the steel also serves 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 A. A minimum 12” x 12” bearing surface must be provided under each of the concentrated load points. The support beams may also be run in the direction perpendicular to the beams shown below (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.
NOTES:

1. Support beams and anchor bolts are to be selected and installed by others.
2. All supporting steel must be level at the top.
3. Beams must be selected in accordance with accepted structural practice. Maximum deflection of beam under unit to be 1/360 of span, not to exceed 1/2 inch.
4. If point vibrations isolation (provided by others) is used with multi-cell towers, the isolators must be located under the supporting steel, not between the support steel and the cooling towers.
5. 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 STEEL SUPPORT FOR UNIT REPLACEMENT (PLAN C)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Unit Replaced</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>D1</th>
<th>E</th>
<th>L</th>
<th>L1</th>
</tr>
</thead>
<tbody>
<tr>
<td>S15E/XES15E-1285</td>
<td>VLT/VST</td>
<td>7’-7 1/2”</td>
<td>8’-3 1/2”</td>
<td>8’-9 1/8”</td>
<td>1’-5”</td>
<td>1’-4 7/8”</td>
<td>2’-11 1/4”</td>
<td>8’-5 3/4”</td>
<td>17’-2”</td>
</tr>
<tr>
<td></td>
<td>CFT/Series 3000</td>
<td>7’-7 1/2”</td>
<td>8’-3 1/2”</td>
<td>8’-0”</td>
<td>2’-5 1/8”</td>
<td>1’-4 7/8”</td>
<td>3’-8 3/8”</td>
<td>8’-5 3/4”</td>
<td>17’-2”</td>
</tr>
<tr>
<td>S15E/XES15E-1212</td>
<td>VLT/VST</td>
<td>11’-1 1/2”</td>
<td>11’-9 1/2”</td>
<td>8’-11 1/4”</td>
<td>1’-5 3/8”</td>
<td>1’-5 3/8”</td>
<td>2’-9 1/8”</td>
<td>11’-11 3/4”</td>
<td>24’-2”</td>
</tr>
<tr>
<td></td>
<td>VXT/VXMT</td>
<td>11’-1 1/2”</td>
<td>11’-9 1/2”</td>
<td>9’-5”</td>
<td>1’-1 1/4”</td>
<td>1’-1 1/4”</td>
<td>2’-0 7/8”</td>
<td>11’-11 3/4”</td>
<td>24’-2”</td>
</tr>
<tr>
<td></td>
<td>CFT/Series 3000</td>
<td>11’-1 1/2”</td>
<td>11’-9 1/2”</td>
<td>8’-0”</td>
<td>1’-1 1/4”</td>
<td>1’-1 1/4”</td>
<td>2’-0 7/8”</td>
<td>11’-11 3/4”</td>
<td>24’-2”</td>
</tr>
<tr>
<td></td>
<td>Series 30000</td>
<td>11’-1 1/2”</td>
<td>11’-9 1/2”</td>
<td>9’-5”</td>
<td>1’-2”</td>
<td>1’-2”</td>
<td>2’-2 3/8”</td>
<td>11’-11 3/4”</td>
<td>24’-2”</td>
</tr>
<tr>
<td>S15E/XES15E-1218</td>
<td>VLT/VST</td>
<td>17’-1 1/2”</td>
<td>17’-9 1/2”</td>
<td>8’-11 1/4”</td>
<td>1’-5 3/8”</td>
<td>1’-5 3/8”</td>
<td>2’-9 1/8”</td>
<td>17’-11 3/4”</td>
<td>36’-2”</td>
</tr>
<tr>
<td></td>
<td>VXT/VXMT</td>
<td>17’-1 1/2”</td>
<td>17’-9 1/2”</td>
<td>9’-7 1/2”</td>
<td>1’-1 1/4”</td>
<td>1’-1 1/4”</td>
<td>2’-0 7/8”</td>
<td>17’-11 3/4”</td>
<td>36’-2”</td>
</tr>
</tbody>
</table>