



# PT2 Cooling Towers

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**The PT2 brings you the most advanced counterflow, induced draft cooling tower in the industry.** Engineered with input from end users, the PT2's design highlights BAC's commitment to ease of maintenance, low installation costs, reduced energy consumption and durable construction. Offering a compact footprint for low to medium tonnage requirements, the PT2 provides an efficient solution for installations with space constraints.



# BAC's PT2: The Superior Counterflow Unit

Designed for Small to Medium Tonnage Requirements  
103 to 827 Nominal Tons in a Single Cell  
Up to 3,100 USGPM for Process Applications

- Reduced Environmental Impact
- Variety of Materials of Construction
- Easy to Maintain
- Continuous Engineering Refinement
- Low Installed Cost



# PT2 Benefits

## > Low Environmental Impact

### ▶ ENERGY EFFICIENT

- All units meet or exceed ASHRAE Standard 90.1 energy efficiency requirements
- Premium efficient/inverter duty fan motors
- PT2-0412A models provide capacity control and redundancy from the two independent motors

### ▶ SOUND REDUCTION OPTIONS

- Standard fan optimizes sound and thermal performance
- For further reduced sound levels, Low Sound Fans, Whisper Quiet Fans, and sound attenuation are available



Whisper Quiet Fan

## > Durable Construction

- ▶ Enhanced longevity with a variety of materials of construction (see page B83 for details)
- ▶ Designed to withstand wind loads of up to 70 psf; upgraded units designed to withstand 120 psf
- ▶ Upgraded structure seismically verified through dynamic shake table testing up to a  $S_{DS}$  of 3.2g
- ▶ Meets wind and seismic requirements of the International Building Code (IBC)
- ▶ Listed on California's Office of Statewide Health Planning and Development (OSHPD) pre-approved equipment list



Shake Table Testing

## > Reliable Year-Round Operation

### ▶ BALTIDRIVE® POWER TRAIN FAN SYSTEM (EXCEPT DIRECT DRIVE FOR PT2-0412A)

- 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 environment
- Extended lubrication lines are standard
- Eliminates the need for expensive winterization accessories
- Automatic bearing greasers (option)

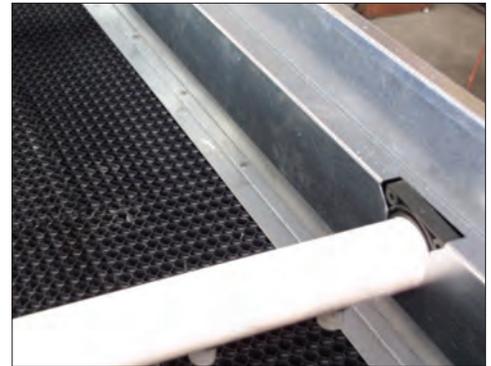


BALTIDRIVE® Power Train



## > Easy Maintenance

- ▶ BranchLok™ Removal System allows for spray branch removal without tools
- ▶ External motor adjustment with included integral belt tensioning device
- ▶ Inward sliding access doors provide larger workspace
- ▶ Louvers are easily removed without tools
- ▶ Sloped cold water basin for easy cleaning
- ▶ External platforms and ladders improve accessibility (option)
- ▶ Removable panels allow for easy inspection and access to the fill (option)
- ▶ Basin sweeper piping to facilitate sediment collection (option)



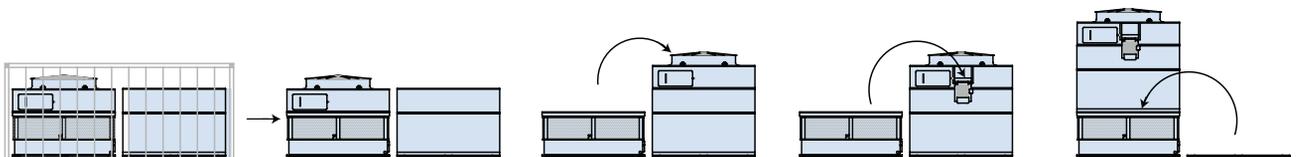
BranchLok™ Removal System

## > Low Installed Cost

- ▶ Single piece lift available on all models
- ▶ Models ship in multiple sections to optimize the size and weight of the heaviest lift, allowing for use of smaller, less costly cranes
- ▶ BAC's InterLok™ System aligns the casing and the basin to expedite rigging and requires no sealer tape
- ▶ The PT2-0412A and PT2-0709A are designed to fit in standard export containers
- ▶ Factory pre-assembled platforms reduce installation time (option)
- ▶ Adaptable steel to fit existing support structure
- ▶ Knockdown units available for field assembly



Single Piece Lift



Easily Assembled Containerized Units

# PT2 Construction Details



## 1 Heavy-Duty Construction

- ▶ G-235 (Z700 metric) mill galvanized steel panels
- ▶ Meets wind and seismic requirements of the International Building Code (IBC)
- ▶ Shake table tested and verified with seismic ratings up to a  $S_{DS}$  of 3.2g
- ▶ Designed to withstand wind loads of up to 120 psf
- ▶ Base structure withstands higher seismic loading than any other induced draft counterflow tower on the market

## 2 BALTIDRIVE® Power Train

- ▶ Available on all models except direct drive model PT2-0412A
- ▶ Premium quality, solid backed, multi-groove belt
- ▶ Corrosion resistant cast aluminum sheaves
- ▶ Heavy-duty bearings with a minimum  $L_{10}$  of 80,000 hours
- ▶ Premium efficient/VFD duty motors are standard
- ▶ 5-year motor and drive warranty
- ▶ Extended lubrication lines

## 3 Low HP Axial Fan(s)

- ▶ High efficiency
- ▶ Quiet operation
- ▶ Corrosion resistant

## 4 Water Distribution System

- ▶ Exclusive BranchLok™ Removal System for tool free branch removal
- ▶ Schedule 40 PVC spray header and branches
- ▶ Large orifice, non-clog nozzles
- ▶ Nozzles grommited for easy removal

## 5 BAC Pak™ Fill

- ▶ Guaranteed thermal performance
- ▶ Polyvinyl chloride (PVC)
- ▶ Impervious to rot, decay, and biological attack
- ▶ Flame spread rating of 25 per ASTM E84

## 6 Combined Air Inlet Shields

- ▶ Corrosion resistant
- ▶ Maintenance free
- ▶ UV-resistant finish
- ▶ Easy to remove sections

## 7 Cold Water Basin

- ▶ Sloped for easy cleaning
- ▶ Suction strainer with removable anti-vortex hood
- ▶ Adjustable water make-up assembly

## 8 Tool-less Access Door(s)

- ▶ Inward sliding door(s)
- ▶ Permanently attached to the unit

# PT2

# 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. Options such as the TriArmor® Corrosion Protection System and EVERTOUGH™ Construction provide superior corrosion resistance and durability at a tremendous value.

### ▶ 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 PT2 units. Standard PT2 unit construction can withstand wind loads up to an  $S_{DS}$  of 1.0g and can withstand wind loads of up to 70 psf, proving its durability and strength. 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.

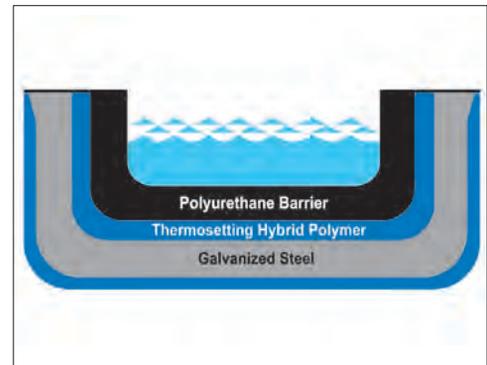


### ▶ TRIARMOR® CORROSION PROTECTION SYSTEM (OPTION)

The TriArmor® Corrosion Protection System consists of heavy gauge G-235 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.



Standard Construction Installation



TriArmor® Corrosion Protection System Triple Layer Protection of the Cold Water Basin



Application of TriArmor® Corrosion Protection System



### **EVERTOUGH™ CONSTRUCTION (OPTION)**

EVERTOUGH™ Construction combines the most corrosion resistant materials to provide the best value in corrosion protection. Specifically, a combination of the TriArmor® Corrosion Protection System and thermosetting hybrid polymer are used. EVERTOUGH™ Construction is backed by a comprehensive Louver-to-Louver<sup>SM</sup> 5-year warranty, which covers ALL components from the fan to the cold water basin, from louver to louver, including the motor. A 5-year leak and corrosion warranty for the basin is also included for the 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.

#### ▶ **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.

- **ALL STAINLESS STEEL CONSTRUCTION**

All steel panels and structural elements are constructed of stainless steel.

#### ▶ **SEISMIC/WIND UPGRADED STRUCTURE**

Select steel panels and structural members are upgraded for higher seismic and wind load applications. An upgraded PT2 unit is certified to withstand up to an  $S_{DS}$  of 3.2g and wind loads of 120 psf. All BAC upgraded units are shake table tested by an independent laboratory to certify the most accurate seismic ratings ensuring that the unit will remain operable following a seismic event.



EVERTOUGH™ Construction Installation



Welded Stainless Steel Cold Water Basin



PT2 During Shake Table Testing

# PT2

# 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.



### **STANDARD BALTIDRIVE® POWER TRAIN**

*Standard on All Models Except PT2-0412A Direct Drive Models*

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. 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.



Standard BALTIDRIVE® Power Train Externally Mounted Motor Models PT2-0709A, PT2-0809A, PT2-0812A, and PT2-0814A



### **INDEPENDENT DIRECT DRIVE MOTORS**

*Standard on PT2-0412A*

The direct drive dual motor system with TEAO motors is factory mounted, alleviating the need for field installation and includes independent fans and motors for capacity control and redundancy in critical applications. Direct drive systems have the benefit of simplicity by having fewer moving parts, which reduces maintenance requirements and friction losses within the drive system.



Direct Drive Motors



### INDEPENDENT FAN OPERATION (OPTION)

*Optional on PT2-1218A*

Two fan 12' x 18' PT2 models are available with an independent fan. The option consists of one fan motor and drive assembly for each fan to allow independent operation, adding an additional step of fan cycling for capacity control. This option ensures complete redundancy for the fan and motor system.

#### ▶ VIBRATION CUTOFF SWITCH (OPTION)

A factory mounted vibration cutoff switch is available to effectively protect against rotating equipment failure. BAC can provide either a mechanical or solid-state electronic vibration cutoff 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.

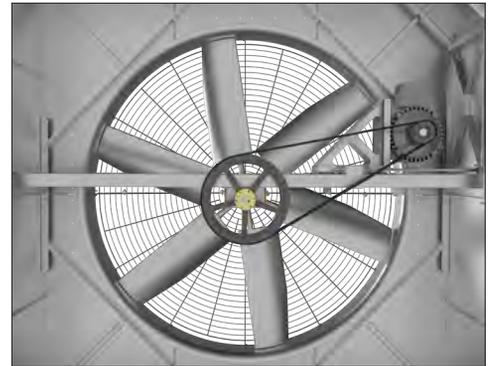


### EXTENDED LUBRICATION LINES

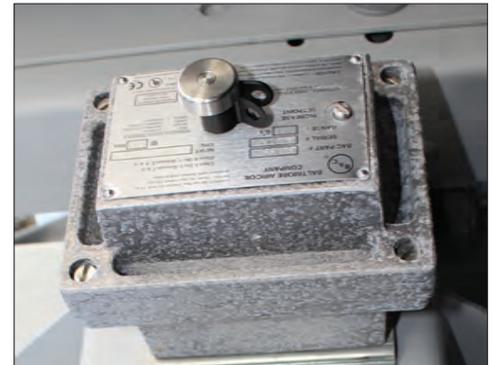
Extended lubrication lines are available for lubrication of the fan shaft bearings. Fittings are located on the exterior casing panel next to the access door.

#### ▶ AUTOMATIC BEARING GREASER (OPTION)

Automatic Bearing Greasers come with BAC recommended grease, compatible with all BAC bearings and provide a continuous supply of new grease to eliminate the need for periodic bearing maintenance. Life of the bearing is extended by eliminating under and over greasing problems. Positive displacement pumps allow for mounting up to 30 feet away from the bearing. When the grease pouch is nearly depleted, three months to a year depending on bearing size, simply replace the pouch.



BALTDRIIVE® Power Train Internally Mounted Motor  
Models PT2-1009A, PT2-1012A, PT2-1212A, PT2-1214A, and PT2-1218A



Vibration Cutoff Switch



Automatic Bearing Greasers

# PT2

# 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. The PT2 cold water basin utilizes a sloped pan design to help eliminate stagnant water zones, which are susceptible to biological growth.

### ▶ 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.

### ▶ SIDE OUTLET DEPRESSED SUMP BOX (OPTION)

A side outlet depressed sump box is available for field installation below the base of the tower. This option facilitates horizontal piping below the basin, and is a compact alternative to using an elbow in the piping arrangement, saving on both installation time and cost. The outlet connection is designed to mate with an ASME Class 150 flat face flange. See the "Connection Guide" on [page J176](#) for more information on standard and optional unit connection types.

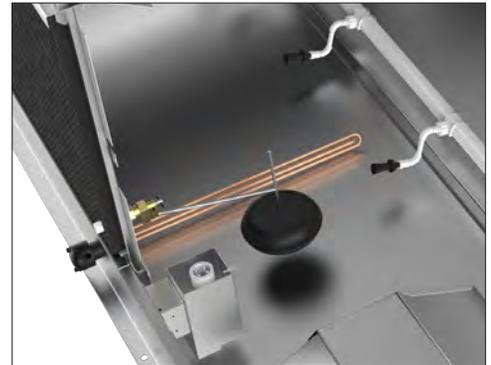


Electric Water Level Control



### 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

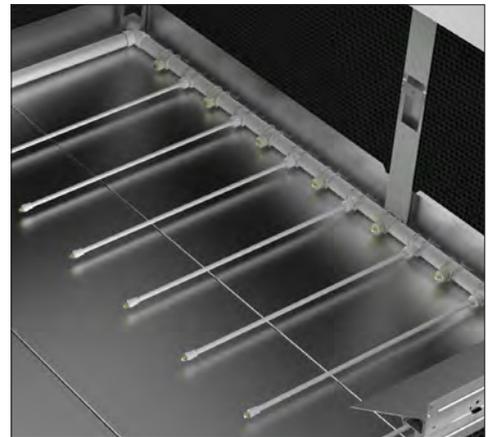
Model Number	0°F (-17.8°C) Ambient Heater's kW	-20°F (-28.9°C) Ambient Heater's kW
PT2-0412A	6	6
PT2-0709A	6	8
PT2-0809A	8	10
PT2-0812A	10	12
PT2-0814A	10	14
PT2-1009A	8	10
PT2-1012A	10	14
PT2-1212A	12	16
PT2-1214A	14	20
PT2-1218A	18	24



**NOTE:** One heater element is required. 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 the "Filtration Guide" found on [page J241](#).



Basin Sweeper Piping

#### ▶ LOW AND HIGH LEVEL ALARMS (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.

# PT2

## 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 balance the water level in the cold water basins. 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.



Flume Box Prepared for Shipping

### > Water Distribution System

The PT2 distribution system was specially designed for accessibility and maintainability. This includes the exclusive BranchLok™ Removal System and BAC non-clogging grommeted nozzles for easy removal and replacement.

#### ▶ STANDARD SIDE INLET CONNECTION

The PT2 is provided with a single inlet connection, and non-clogging nozzles allow for easily flushing debris from the water distribution system.



Side Inlet Connection



### BRANCHLOK™ REMOVAL SYSTEM

The BranchLok™ Removal System is a water distribution branch removal system that requires no tools, allowing for easy inspection and maintenance of the water distribution. Maintainability ensures continued even flow over the heat transfer surface for maximum capacity.

## > Fill

PT2's BAC Pak™ Fill is exclusively designed to provide you guaranteed thermal performance and is made of PVC making it virtually impervious to rot, decay, and biological attack.



### STANDARD FILL

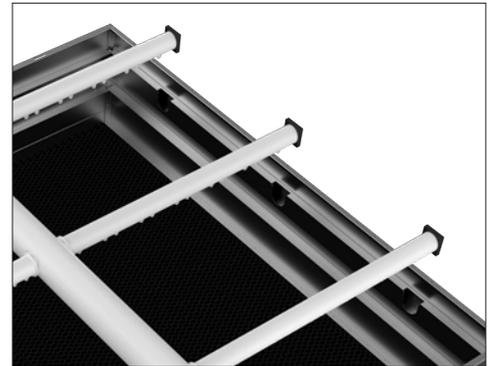
Standard BAC Pak™ Fill can be used in applications with entering water temperature up to 140°F (60°C). The fill and drift eliminators are formed from self-extinguishing PVC having a flame spread rating of 25 per ASTM E84.

#### ▶ HIGH TEMPERATURE FILL (OPTION)

An optional high temperature fill material is available which increases the maximum allowable entering water temperature to 150°F (65.5°C).

#### ▶ FILL INSPECTION PANELS (OPTION)

Removeable inspection panels allow for easy inspection and access to the fill.



BranchLok™ Removal System



PT2 with Fill Inspection Panels

## > Air Intake Options

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, 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

# PT2

## 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.



#### INTERLOK™ SYSTEM

The InterLok™ System is a self-aligning casing/basin joint that makes assembly easier. The alignment of the casing and basin joint determines the leak resistance of the joint. With the InterLok™ System, the joint is now inside the unit, therefore eliminating the possibility of water leakage at these seams. On the PT2, this specially designed joint eliminates the need for sealer tape and significantly reduces rigging time.



InterLok™ System

#### ▶ KNOCKDOWN UNITS (OPTION)

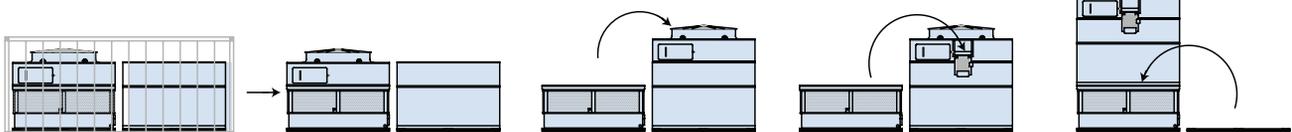
Knockdown units are available for jobs where access to the cooling tower location is limited by elevators, doorways, or similar obstacles, where lifting methods impose very strict weight limits, or where the shipping cost of a fully assembled tower is excessive. All materials of construction and design 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.

#### ▶ CONTAINERIZED UNITS

The PT2-0412A and PT2-0709A can be containerized in a standard shipping container for easy export, allowing for the lowest transportation cost possible when providing high quality BAC units to all parts of the world.



PT2-0709A in a Standard Shipping Container



Easily Assembled Containerized Units



## > 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 PT2 Cooling Towers is selected to optimize low sound levels and maximize thermal performance.

### ▶ **LOW SOUND FAN (OPTION)**

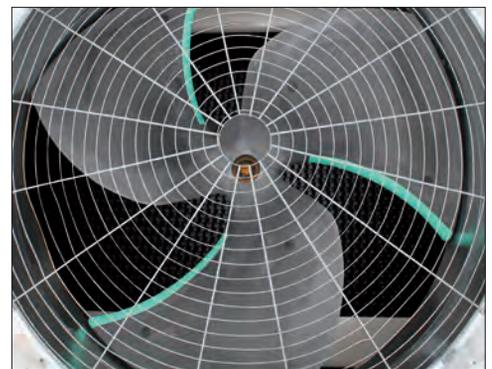
The Low Sound Fan option reduces sound up to 8 dBA. Adding a high solidity fan allows for decreased fan speed, which proportionally decreases sound levels. The thermal performance with the Low Sound Fan has been certified in accordance with CTI Standard STD-201.

### ▶ **WHISPER QUIET FAN (OPTION)**

The Whisper Quiet Fan reduces sound up to 15 dBA. This single piece, high solidity fan is made from chemical resistant fiber reinforced polyester (FRP) and comes standard with blade leading protection. As a single piece fan, the non-corrosive blades are permanently pitched and require minimal maintenance. The thermal performance with the Whisper Quiet Fan has been certified in accordance with CTI Standard STD-201.

### ▶ **WATER SILENCERS (OPTION)**

Water silencers are available to reduce the sound of falling water inherent in induced draft counterflow cooling towers. When utilized with one of BAC's inherently Low Sound Fans, the sound contribution due to water noise can be reduced to negligible levels.



Whisper Quiet Fan



Water Silencers

# PT2

# Custom Features & Options

## > Access Options

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

### ▶ **MOTOR REMOVAL SYSTEM (OPTION)**

All motor removal system options include davit arm(s) to facilitate motor replacement.

### ▶ **MODULAR EXTERNAL PLATFORMS AND LADDER PACKAGES (OPTION)**

Every modular external platform is preassembled and pre-fitted at the factory to ensure that every component will fit and function exactly as described. The platform is rigged easily in the field with minimum fasteners, and drastically reduces the time required for rigging external access platforms.

### ▶ **ACCESS DOOR PLATFORM AND LADDER PACKAGES (OPTION)**

An access door platform is available for safe access to the unit, as well as a working platform to stage tools for maintenance.

### ▶ **EXTERNAL LADDER (OPTION)**

The PT2 can be furnished with an inclined ladder - a 75° angled ladder - extending from the base of the unit to the access door, providing safe access with minimal space requirements. All components are designed to meet OSHA requirements.



Access Door Platform and Ladder, Motor Removal System



External Ladder



**BALTIMORE  
AIRCOIL COMPANY**



**No Noise. No Problem**

BAC introduces the new ultra low sound Whisper Quiet Fan for the industry leading PT2 Cooling Tower. No more worrying about projects in residential areas or healthcare facilities with tight sound restrictions.

With **up to 15 dBA of sound reduction**, the Whisper Quiet Fan will make you wonder if the PT2 is even running.



# PT2 Engineering Data

## > Performance Data

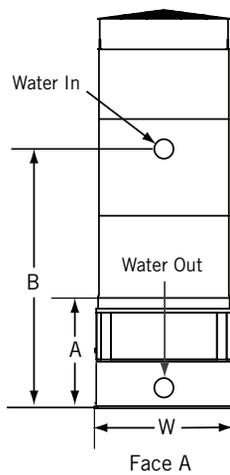
Model Number <sup>(1)</sup>	Airflow Per Cell (CFM)	1 Cell		2 Cell: PT2-XXXXA-XX <sup>(2)</sup>		2 Cell: PT2-1218A-XX <sup>(2)</sup>		3 Cell		4 Cell	
		Nominal Tonnage <sup>(3)</sup>	Motor Qty. and HP	Nominal Tonnage <sup>(3)</sup>	Motor Qty. and HP	Nominal Tonnage <sup>(3)</sup>	Motor Qty. and HP	Nominal Tonnage <sup>(3)</sup>	Motor Qty. and HP	Nominal Tonnage <sup>(3)</sup>	Motor Qty. and HP
PT2-0412A-1H*	34,122	122	(2) 5	—	—	—	—	—	—	—	—
PT2-0412A-2J*	35,948	154	(2) 7.5	—	—	—	—	—	—	—	—
PT2-0412A-3J*	37,034	158	(2) 7.5	—	—	—	—	—	—	—	—
PT2-0412A-4J*	34,075	164	(2) 7.5	—	—	—	—	—	—	—	—
PT2-0709A-1K*	44,445	159	(1) 10	324	(2) 10	—	—	494	(3) 10	—	—
PT2-0709A-2L*	46,604	199	(1) 15	404	(2) 15	—	—	614	(3) 15	—	—
PT2-0709A-3L*	43,515	210	(1) 15	425	(2) 15	—	—	644	(3) 15	—	—
PT2-0709A-4L*	44,385	214	(1) 15	430	(2) 15	—	—	649	(3) 15	—	—
PT2-0709A-5L*	43,465	223	(1) 15	447	(2) 15	—	—	674	(3) 15	—	—
PT2-0809A-1L*	55,343	198	(1) 15	403	(2) 15	—	—	615	(3) 15	—	—
PT2-0809A-2L*	52,390	224	(1) 15	455	(2) 15	—	—	692	(3) 15	—	—
PT2-0809A-3M*	53,368	258	(1) 20	522	(2) 20	—	—	792	(3) 20	—	—
PT2-0809A-4M*	54,705	264	(1) 20	530	(2) 20	—	—	801	(3) 20	—	—
PT2-0809A-5M*	53,040	272	(1) 20	546	(2) 20	—	—	824	(3) 20	—	—
PT2-0812A-1M*	76,747	274	(1) 20	556	(2) 20	—	—	847	(3) 20	—	—
PT2-0812A-2N*	76,224	326	(1) 25	659	(2) 25	—	—	1,000	(3) 25	—	—
PT2-0812A-3O*	74,937	362	(1) 30	731	(2) 30	—	—	1,106	(3) 30	—	—
PT2-0812A-4O*	76,436	369	(1) 30	743	(2) 30	—	—	1,118	(3) 30	—	—
PT2-0812A-5O*	74,109	380	(1) 30	764	(2) 30	—	—	1,150	(3) 30	—	—
PT2-0814-1N*	90,036	321	(1) 25	654	(2) 25	—	—	996	(3) 25	—	—
PT2-0814-2O*	88,909	380	(1) 30	770	(2) 30	—	—	1,169	(3) 30	—	—
PT2-0814-3O*	83,063	401	(1) 30	812	(2) 30	—	—	1,229	(3) 30	—	—
PT2-0814-4O*	85,135	411	(1) 30	828	(2) 30	—	—	1,247	(3) 30	—	—
PT2-0814-5O*	82,544	423	(1) 30	852	(2) 30	—	—	1,283	(3) 30	—	—
PT2-1009A-1L*	63,129	225	(1) 15	454	(2) 15	—	—	690	(3) 15	916	“(4) 15
PT2-1009A-2M*	63,391	271	(1) 20	544	(2) 20	—	—	825	(3) 20	1,097	(4) 20
PT2-1009A-3N*	62,372	301	(1) 25	605	(2) 25	—	—	915	(3) 25	1,217	(4) 25
PT2-1009A-4N*	63,619	307	(1) 25	617	(2) 25	—	—	928	(3) 25	1,233	(4) 25
PT2-1009A-5N*	62,299	319	(1) 25	641	(2) 25	—	—	965	(3) 25	1,282	(4) 25
PT2-1012A-1O*	93,334	333	(1) 30	672	(2) 30	—	—	1,020	“(3) 30	1,345	(4) 30
PT2-1012A-2O*	86,182	368	(1) 30	741	(2) 30	—	—	1,123	(3) 30	1,483	(4) 30
PT2-1012A-3P*	87,973	425	(1) 40	854	(2) 40	—	—	1,291	(3) 40	1,709	(4) 40
PT2-1012A-4P*	89,733	433	(1) 40	867	(2) 40	—	—	1,306	(3) 40	1,732	(4) 40
PT2-1012A-5P*	87,697	450	(1) 40	900	(2) 40	—	—	1,355	(3) 40	1,797	(4) 40
PT2-1212A-1O*	107,028	382	(1) 30	764	(2) 30	—	—	1,157	(3) 30	1,528	“(4) 30
PT2-1212A-2O*	102,182	436	(1) 30	873	(2) 30	—	—	1,319	(3) 30	1,746	(4) 30
PT2-1212A-3P*	104,022	502	(1) 40	1,004	(2) 40	—	—	1,516	(3) 40	2,008	(4) 40
PT2-1212A-4P*	106,102	512	(1) 40	1,022	(2) 40	—	—	1,537	(3) 40	2,037	(4) 40
PT2-1212A-5P*	103,901	533	(1) 40	1,064	(2) 40	—	—	1,598	(3) 40	2,120	(4) 40
PT2-1214A-1O*	118,249	422	(1) 30	847	(2) 30	—	—	1,283	(3) 30	1,688	(4) 30
PT2-1214A-2P*	121,725	520	(1) 40	1,042	(2) 40	—	—	1,577	(3) 40	2,080	(4) 40
PT2-1214A-3P*	115,482	557	(1) 40	1,117	(2) 40	—	—	1,687	(3) 40	2,230	(4) 40
PT2-1214A-4P*	117,791	569	(1) 40	1,136	(2) 40	—	—	1,708	(3) 40	2,260	(4) 40
PT2-1214A-5P*	114,206	585	(1) 40	1,170	(2) 40	—	—	1,759	(3) 40	2,329	(4) 40
PT2-1218A-1P*	154,158	550	(1) 40	1,104	(2) 40	1,099	(2) 40	1,659	(3) 40	2,160	(4) 40
PT2-1218A-2Q*	157,768	674	(1) 50	1,351	(2) 50	1,347	(2) 50	2,030	(3) 50	2,655	(4) 50
PT2-1218A-3S <sup>(4)</sup>	163,078	787	(2) 35	1,578	(4) 35	1,574	(4) 35	2,370	(6) 35	3,111	(8) 35
PT2-1218A-4S <sup>(4)</sup>	166,340	803	(2) 35	1,608	(4) 35	1,611	(4) 35	2,422	(6) 35	3,190	(8) 35
PT2-1218A-5S <sup>(4)</sup>	161,276	827	(2) 35	1,656	(4) 35	1,659	(4) 35	2,493	(6) 35	3,287	(8) 35



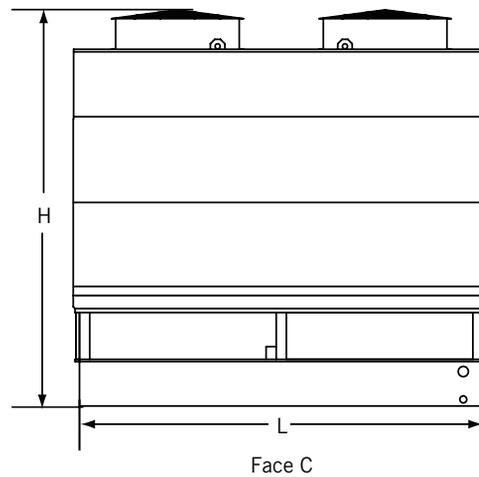
**NOTES FOR PAGE B95:**

1. \* in Model Number above indicates number of cells.
2. For a plan view of Models PT2-1218A-\*\*2 and PT2-1218A-\*\*T, see **page B103**.
3. Nominal tons of cooling represents 3 USGPM of water from 95°F to 85°F at a 78°F entering wet-bulb temperature.
4. For PT2-1218A-\*S\* models, two fans are standard.
5. The cell will have a brake horsepower of 25 HP.
6. Up-to-date engineering data, free product selection software, and more can be found at [www.BaltimoreAircoil.com](http://www.BaltimoreAircoil.com).

**> Dimensional Data**



Face A: Models PT2-0412A



Single Cell Face C: Models PT2-0412A

Model Number <sup>(1)</sup>	Nominal Weights (lbs)			Dimensions					
	Operating <sup>(2)</sup>	Shipping	Heaviest Section	L	W	H	A	B	F
PT2-0412A-1*1	5,490	3,060	2,290	12'-0"	4'-0"	10'-1"	3'-3"	6'-5"	—
PT2-0412A-2*1	5,830	3,400	2,630	12'-0"	4'-0"	11'-1"	3'-3"	7'-5"	—
PT2-0412A-3*1	6,503	3,953	2,785	12'-0"	4'-0"	12'-0"	4'-2"	8'-4"	—
PT2-0412A-4*1	6,743	4,193	3,025	12'-0"	4'-0"	13'-0"	4'-2"	9'-4"	—

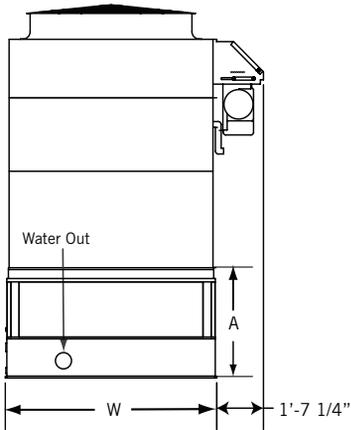


**NOTES:**

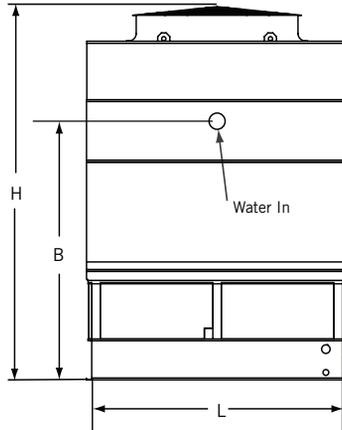
1. Data corresponds to all available motors for this model.
2. Operating weight is based on the water level in the cold water basin at overflow height. If a lower operating weight is needed to meet design requirements, your local BAC Representative can provide additional assistance.

**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.

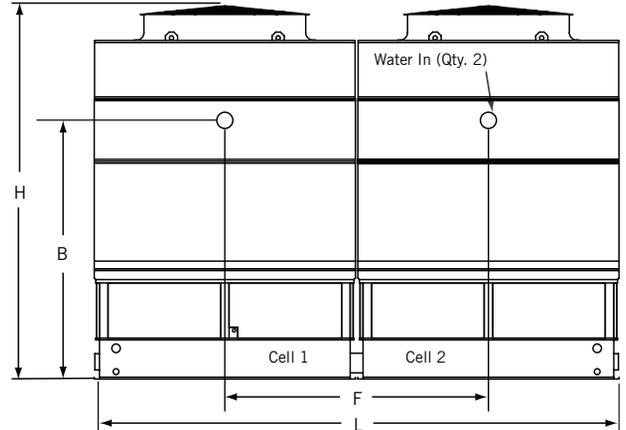
# PT2 Engineering Data



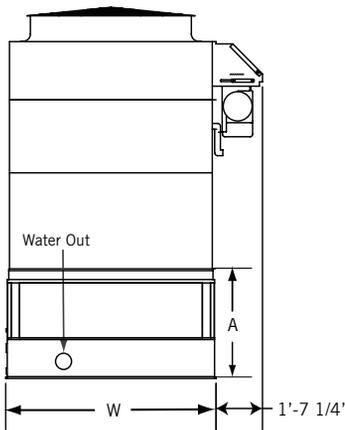
**Face A:** Models PT2-0709A, PT2-0809A, PT2-0812A, and PT2-0814A (For 2-Cell and 3-Cell Configurations, Connections Typical at Each End)



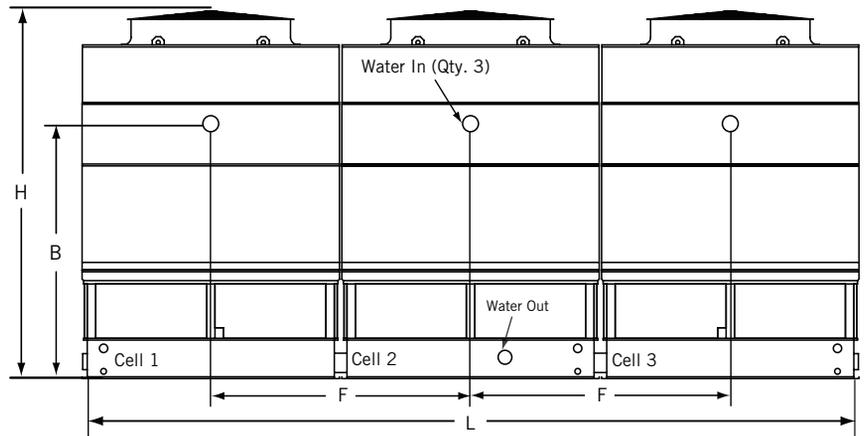
**Single Cell Face C:** Models PT2-0709A, PT2-0809A, PT2-0812A, and PT2-0814A



**Face C 2-Cell Configuration:** PT2-0709A, PT2-0809A, PT2-0812A, and PT2-0814A



**Face A 3-Cell Configuration:** Models PT2-0709A, PT2-0809A, PT2-0812A, and PT2-0814A (Connections Typical at Each End)



**Face C 3-Cell Configuration:** Models PT2-0709A, PT2-0809A, PT2-0812A, and PT2-0814A



## NOTES:

1. Data corresponds to all available motors for this model.
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.

**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 <sup>(1)</sup>	Nominal Weights (lbs)			Dimensions					
	Operating <sup>(2)</sup>	Shipping	Heaviest Section	L	W	H	A	B	F
PT2-0709A-1*1	6,205	3,445	2,505	9'-0"	7'-4"	11'-5"	3'-9"	6'-10"	—
PT2-0709A-2*1	6,620	3,860	2,920	9'-0"	7'-4"	12'-5"	3'-9"	7'-10"	—
PT2-0709A-3*1	6,910	4,150	3,220	9'-0"	7'-4"	13'-5"	3'-9"	8'-10"	—
PT2-0709A-4*1	7,720	4,780	3,372	9'-0"	7'-4"	14'-5"	4'-9"	9'-10"	—
PT2-0709A-5*1	7,940	5,000	3,592	9'-0"	7'-4"	15'-5"	4'-9"	10'-10"	—
PT2-0709A-1*2	12,520	7,010	2,505	18'-1"	7'-4"	12'-5"	4'-9"	7'-10"	9'-1"
PT2-0709A-2*2	13,350	7,840	2,920	18'-1"	7'-4"	13'-5"	4'-9"	8'-10"	9'-1"
PT2-0709A-3*2	13,940	8,430	3,220	18'-1"	7'-4"	14'-5"	4'-9"	9'-10"	9'-1"
PT2-0709A-4*2	15,570	9,690	3,372	18'-1"	7'-4"	15'-10"	6'-2"	11'-2"	9'-1"
PT2-0709A-5*2	16,010	10,130	3,592	18'-1"	7'-4"	16'-10"	6'-2"	12'-2"	9'-1"
PT2-0709A-1*3	18,975	10,705	2,505	27'-2"	7'-4"	13'-5"	5'-9"	8'-10"	9'-1"
PT2-0709A-2*3	20,230	11,960	2,920	27'-2"	7'-4"	14'-5"	5'-9"	8'-10"	9'-1"
PT2-0709A-3*3	21,480	13,210	3,220	27'-2"	7'-4"	15'-5"	5'-9"	10'-10"	9'-1"
PT2-0709A-4*3	23,740	14,910	3,372	27'-2"	7'-4"	17'-7"	7'-11"	12'-11"	9'-1"
PT2-0709A-5*3	24,400	15,570	3,592	27'-2"	7'-4"	18'-7"	7'-11"	13'-11"	9'-1"
PT2-0809A-1*1	6,900	3,820	2,860	9'-0"	8'-6"	11'-7"	3'-9"	6'-11"	—
PT2-0809A-2*1	7,200	4,120	3,160	9'-0"	8'-6"	12'-7"	3'-9"	7'-11"	—
PT2-0809A-3*1	7,560	4,480	3,510	9'-0"	8'-6"	13'-7"	3'-9"	8'-11"	—
PT2-0809A-4*1	8,533	5,133	3,671	9'-0"	8'-6"	14'-7"	4'-9"	9'-11"	—
PT2-0809A-5*1	8,753	5,353	3,891	9'-0"	8'-6"	15'-7"	4'-9"	10'-11"	—
PT2-0809A-1*2	13,930	7,780	2,860	18'-1"	8'-6"	12'-7"	4'-9"	7'-11"	9'-1"
PT2-0809A-2*2	14,530	8,380	3,160	18'-1"	8'-6"	13'-7"	4'-9"	8'-11"	9'-1"
PT2-0809A-3*2	15,250	9,100	3,510	18'-1"	8'-6"	14'-7"	4'-9"	9'-11"	9'-1"
PT2-0809A-4*2	17,205	10,405	3,671	18'-1"	8'-6"	15'-11"	6'-2"	11'-4"	9'-1"
PT2-0809A-5*2	17,645	10,845	3,891	18'-1"	8'-6"	16'-11"	6'-2"	12'-4"	9'-1"
PT2-0809A-1*3	21,120	11,890	2,860	27'-2"	8'-6"	13'-7"	5'-9"	8'-10"	9'-1"
PT2-0809A-2*3	22,020	12,790	3,160	27'-2"	8'-6"	14'-7"	5'-9"	8'-10"	9'-1"
PT2-0809A-3*3	23,480	14,250	3,510	27'-2"	8'-6"	15'-7"	5'-9"	10'-11"	9'-1"
PT2-0809A-4*3	26,528	16,328	3,671	27'-2"	8'-6"	17'-7"	7'-11"	13'-1"	9'-1"
PT2-0809A-5*3	27,188	16,988	3,891	27'-2"	8'-6"	18'-7"	7'-11"	14'-1"	9'-1"
PT2-0812A-1*1	8,640	4,510	3,220	12'-0"	8'-6"	11'-8"	4'-2"	7'-4"	—
PT2-0812A-2*1	8,990	4,860	3,540	12'-0"	8'-6"	12'-8"	4'-2"	8'-4"	—
PT2-0812A-3*1	9,360	5,230	3,880	12'-0"	8'-6"	13'-8"	4'-2"	9'-4"	—
PT2-0812A-4*1	10,483	5,953	4,071	12'-0"	8'-6"	14'-8"	5'-2"	10'-4"	—
PT2-0812A-5*1	10,803	6,273	4,391	12'-0"	8'-6"	15'-8"	5'-2"	11'-4"	—
PT2-0812A-1*2	17,470	9,200	3,220	24'-1"	8'-6"	12'-8"	5'-2"	8'-4"	12'-1"
PT2-0812A-2*2	18,170	9,900	3,540	24'-1"	8'-6"	13'-8"	5'-2"	9'-4"	12'-1"
PT2-0812A-3*2	18,910	10,640	3,880	24'-1"	8'-6"	14'-8"	5'-2"	10'-4"	12'-1"
PT2-0812A-4*2	21,156	12,086	4,071	24'-1"	8'-6"	16'-5"	6'-11"	12'-1"	12'-1"
PT2-0812A-5*2	21,786	12,726	4,391	24'-1"	8'-6"	17'-5"	6'-11"	13'-1"	12'-1"
PT2-0812A-1*3	26,470	14,070	3,220	36'-2"	8'-6"	13'-8"	6'-2"	9'-4"	12'-1"
PT2-0812A-2*3	27,520	15,120	3,540	36'-2"	8'-6"	14'-8"	6'-2"	10'-4"	12'-1"
PT2-0812A-3*3	29,020	16,620	3,880	36'-2"	8'-6"	15'-8"	6'-2"	11'-4"	12'-1"
PT2-0812A-4*3	32,388	18,788	4,071	36'-2"	8'-6"	17'-11"	8'-5"	13'-7"	12'-1"
PT2-0812A-5*3	33,338	19,748	4,391	36'-2"	8'-6"	18'-11"	8'-5"	14'-7"	12'-1"

# PT2 Engineering Data

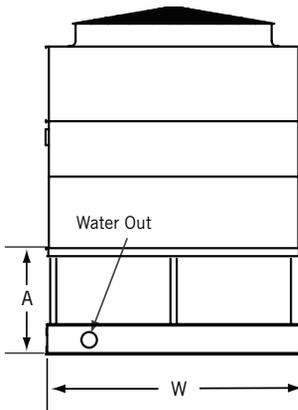
Model Number <sup>(1)</sup>	Nominal Weights (lbs)			Dimensions					
	Operating <sup>(2)</sup>	Shipping	Heaviest Section	L	W	H	A	B	F
PT2-0814A-1*1	9,580	4,800	3,460	14'-0"	8'-6"	11'-8"	4'-2"	7'-4"	—
PT2-0814A-2*1	10,030	5,250	3,920	14'-0"	8'-6"	12'-8"	4'-2"	8'-4"	—
PT2-0814A-3*1	10,440	5,660	4,320	14'-0"	8'-6"	13'-8"	4'-2"	9'-4"	—
PT2-0814A-4*1	11,443	6,383	4,511	14'-0"	8'-6"	14'-8"	5'-2"	10'-4"	—
PT2-0814A-5*1	11,773	6,713	4,841	14'-0"	8'-6"	15'-8"	5'-2"	11'-4"	—
PT2-0814A-1*2	19,330	9,780	3,460	28'-1"	8'-6"	12'-8"	5'-2"	8'-4"	14'-1"
PT2-0814A-2*2	20,240	10,690	3,920	28'-1"	8'-6"	13'-8"	5'-2"	9'-4"	14'-1"
PT2-0814A-3*2	21,060	11,500	4,320	28'-1"	8'-6"	14'-8"	5'-2"	10'-4"	14'-1"
PT2-0814A-4*2	23,056	12,936	4,511	28'-1"	8'-6"	16'-5"	6'-11"	12'-1"	14'-1"
PT2-0814A-5*2	23,726	13,596	4,841	28'-1"	8'-6"	17'-5"	6'-11"	13'-1"	14'-1"
PT2-0814A-1*3	29,270	14,930	3,460	42'-2"	8'-6"	13'-8"	6'-2"	9'-4"	14'-1"
PT2-0814A-2*3	30,640	16,300	3,920	42'-2"	8'-6"	14'-8"	6'-2"	10'-4"	14'-1"
PT2-0814A-3*3	32,230	17,890	4,320	42'-2"	8'-6"	15'-8"	6'-2"	11'-4"	14'-1"
PT2-0814A-4*3	34,958	20,038	4,511	42'-2"	8'-6"	17'-11"	8'-5"	13'-7"	14'-1"
PT2-0814A-5*3	35,948	21,028	4,841	42'-2"	8'-6"	18'-11"	8'-5"	14'-7"	14'-1"



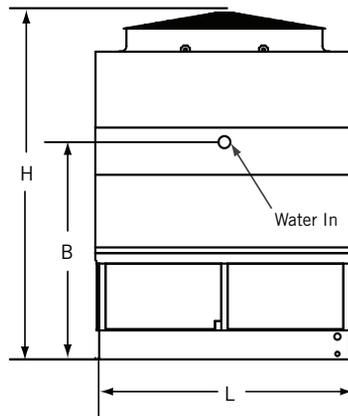
## NOTES:

1. Data corresponds to all available motors for this model.
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.

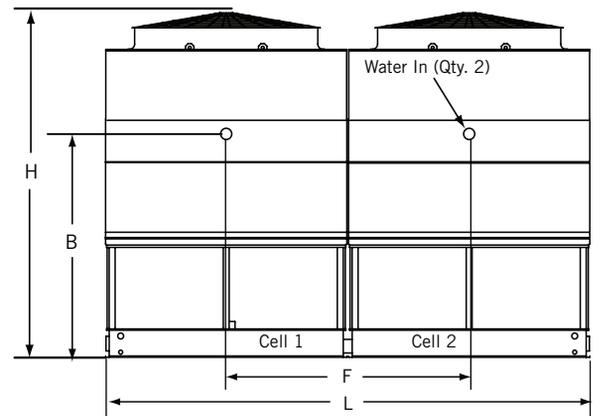
**Do not use for construction.** Refer to factory certified dimensions. This catalog includes data current at the time of publication, which should be reconfirmed at the time of purchase.



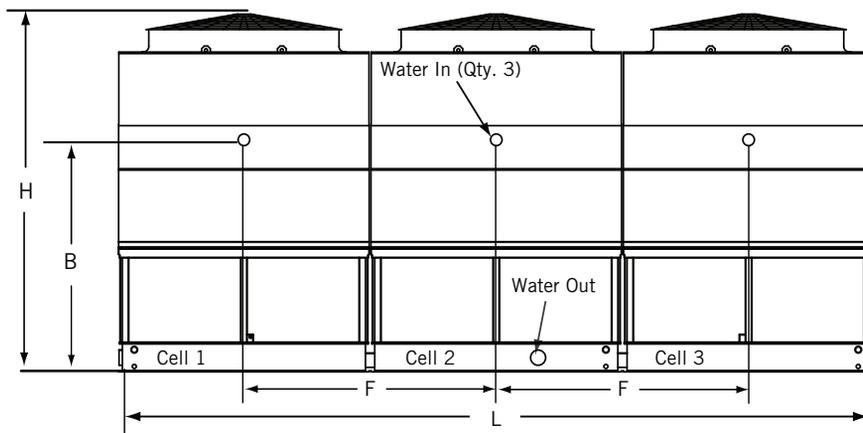
**Face A:** Models PT2-1009A, PT2-1012A, PT2-1212A, and PT2-1214A (For 2-Cell and 3-Cell Configurations, Connections Typical at Each End)



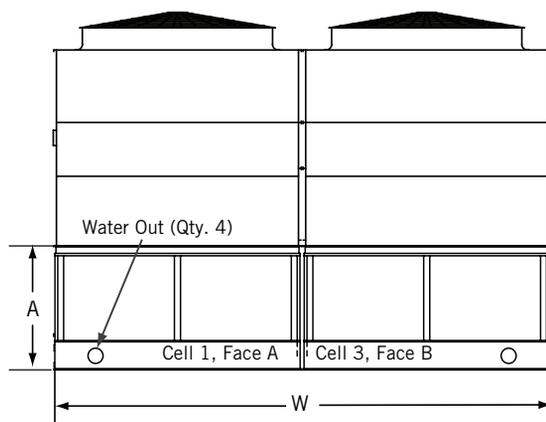
**Face C Single Cell:** Models PT2-1009A, PT2-1012A, PT2-1212A, and PT2-1214A



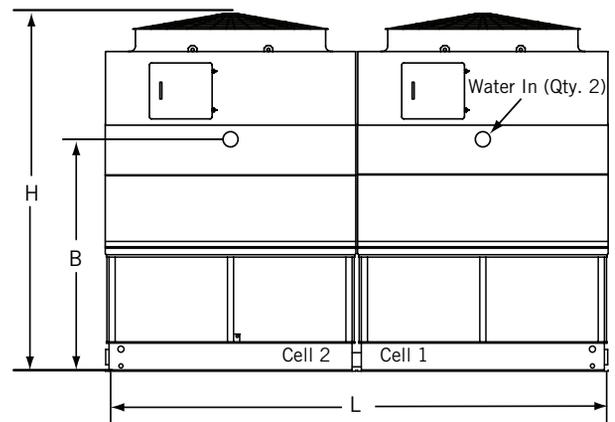
**Face C 2-Cell:** Models PT2-1009A, PT2-1012A, PT2-1212A, and PT2-1214A



**Face C 3-Cell:** Models PT2-1009A, PT2-1012A, PT2-1212A, and PT2-1214A



**Face A/B Quad Configuration:** Models PT2-1009A, PT2-1012A, PT2-1212A, and PT2-1214A Connections Typical at Each End



**Face C Quad Configuration:** Models PT2-1009A, PT2-1012A, PT2-1212A, and PT2-1214A Connections Typical at Each End

# PT2 Engineering Data

Model Number <sup>(1)</sup>	Nominal Weights (lbs)			Dimensions					
	Operating <sup>(2)</sup>	Shipping	Heaviest Section	L	W	H	A	B	F
PT2-1009A-1*1	7,750	4,310	3,320	9'-0"	9'-10"	13'-1"	4'-2"	7'-3"	—
PT2-1009A-2*1	8,120	4,680	3,670	9'-0"	9'-10"	14'-1"	4'-2"	8'-3"	—
PT2-1009A-3*1	8,460	5,020	3,990	9'-0"	9'-10"	15'-1"	4'-2"	9'-3"	—
PT2-1009A-4*1	9,698	5,718	4,169	9'-0"	9'-10"	16'-1"	5'-2"	10'-3"	—
PT2-1009A-5*1	9,978	5,998	4,449	9'-0"	9'-10"	17'-1"	5'-2"	11'-3"	—
PT2-1009A-1*2	15,670	8,780	3,320	18'-1"	9'-10"	14'-1"	5'-2"	8'-3"	9'-1"
PT2-1009A-2*2	16,410	9,520	3,670	18'-1"	9'-10"	15'-1"	5'-2"	9'-3"	9'-1"
PT2-1009A-3*2	17,090	10,200	3,990	18'-1"	9'-10"	16'-1"	5'-2"	10'-3"	9'-1"
PT2-1009A-4*2	19,555	11,595	4,169	18'-1"	9'-10"	17'-10"	6'-11"	12'-0"	9'-1"
PT2-1009A-5*2	20,125	12,155	4,449	18'-1"	9'-10"	18'-10"	6'-11"	13'-0"	9'-1"
PT2-1009A-1*3	23,740	13,410	3,320	27'-2"	9'-10"	15'-1"	6'-2"	9'-3"	9'-1"
PT2-1009A-2*3	24,850	14,520	3,670	27'-2"	9'-10"	16'-1"	6'-2"	10'-3"	9'-1"
PT2-1009A-3*3	26,250	15,920	3,990	27'-2"	9'-10"	17'-1"	6'-2"	11'-3"	9'-1"
PT2-1009A-4*3	29,953	18,023	4,169	27'-2"	9'-10"	19'-4"	8'-5"	13'-6"	9'-1"
PT2-1009A-5*3	30,803	18,863	4,449	27'-2"	9'-10"	20'-4"	8'-5"	14'-6"	9'-1"
PT2-1009A-1*4	32,190	18,410	3,320	18'-1"	19'-9"	16'-1"	7'-2"	10'-3"	—
PT2-1009A-2*4	33,800	20,020	3,670	18'-1"	19'-9"	17'-1"	7'-2"	11'-3"	—
PT2-1009A-3*4	35,660	21,880	3,990	18'-1"	19'-9"	18'-1"	7'-2"	12'-3"	—
PT2-1009A-4*4	41,060	24,690	4,169	18'-1"	19'-9"	20'-1"	9'-2"	14'-3"	—
PT2-1009A-5*4	42,190	25,810	4,449	18'-1"	19'-9"	21'-1"	9'-2"	15'-3"	—
PT2-1012A-1*1	10,240	5,650	4,360	12'-0"	9'-10"	13'-4"	4'-5"	7'-6"	—
PT2-1012A-2*1	10,640	6,050	4,740	12'-0"	9'-10"	14'-4"	4'-5"	8'-6"	—
PT2-1012A-3*1	11,210	6,620	5,280	12'-0"	9'-10"	15'-4"	4'-5"	9'-6"	—
PT2-1012A-4*1	12,468	7,388	5,489	12'-0"	9'-10"	16'-8"	5'-9"	10'-10"	—
PT2-1012A-5*1	12,838	7,748	5,849	12'-0"	9'-10"	17'-8"	5'-9"	11'-10"	—
PT2-1012A-1*2	20,700	11,510	4,360	24'-1"	9'-10"	14'-4"	5'-5"	8'-6"	12'-1"
PT2-1012A-2*2	21,510	12,320	4,740	24'-1"	9'-10"	15'-4"	5'-5"	9'-6"	12'-1"
PT2-1012A-3*2	22,630	13,440	5,280	24'-1"	9'-10"	16'-4"	5'-5"	10'-6"	12'-1"
PT2-1012A-4*2	25,156	14,986	5,489	24'-1"	9'-10"	18'-1"	7'-2"	12'-3"	12'-1"
PT2-1012A-5*2	25,876	15,706	5,849	24'-1"	9'-10"	19'-1"	7'-2"	13'-3"	12'-1"
PT2-1012A-1*3	31,370	17,590	4,360	36'-2"	9'-10"	15'-4"	6'-5"	9'-6"	12'-1"
PT2-1012A-2*3	32,570	18,790	4,740	36'-2"	9'-10"	16'-4"	6'-5"	10'-6"	12'-1"
PT2-1012A-3*3	34,750	20,970	5,280	36'-2"	9'-10"	17'-4"	6'-5"	11'-6"	12'-1"
PT2-1012A-4*3	38,543	23,283	5,489	36'-2"	9'-10"	19'-8"	8'-9"	13'-10"	12'-1"
PT2-1012A-5*3	39,623	24,363	5,849	36'-2"	9'-10"	20'-8"	8'-9"	14'-10"	12'-1"
PT2-1012A-1*4	42,510	24,140	4,360	24'-1"	19'-9"	16'-4"	7'-5"	10'-6"	—
PT2-1012A-2*4	44,290	25,920	4,740	24'-1"	19'-9"	17'-4"	7'-5"	11'-6"	—
PT2-1012A-3*4	47,190	28,820	5,280	24'-1"	19'-9"	18'-4"	7'-5"	12'-6"	—
PT2-1012A-4*4	52,701	31,891	5,489	24'-1"	19'-9"	20'-6"	9'-7"	14'-8"	—
PT2-1012A-5*4	54,121	33,331	5,849	24'-1"	19'-9"	21'-6"	9'-7"	15'-8"	—



## NOTES:

1. Data corresponds to all available motors for this model.
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.

**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.



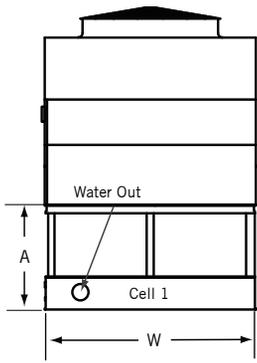
Model Number <sup>(1)</sup>	Nominal Weights (lbs)			Dimensions					
	Operating <sup>(2)</sup>	Shipping	Heaviest Section	L	W	H	A	B	F
PT2-1212A-1*1	11,640	6,400	4,600	12'-0"	11'-10"	13'-11"	4'-11"	8'-0"	—
PT2-1212A-2*1	12,190	6,950	5,150	12'-0"	11'-10"	14'-11"	4'-11"	9'-0"	—
PT2-1212A-3*1	12,900	7,660	5,870	12'-0"	11'-10"	15'-11"	4'-11"	10'-0"	—
PT2-1212A-4*1	14,253	8,483	6,097	12'-0"	11'-10"	17'-5"	6'-5"	11'-6"	—
PT2-1212A-5*1	14,673	8,903	6,517	12'-0"	11'-10"	18'-5"	6'-5"	12'-6"	—
PT2-1212A-1*2	23,410	12,940	4,600	24'-1"	11'-10"	14'-11"	5'-11"	9'-0"	12'-1"
PT2-1212A-2*2	24,520	14,050	5,150	24'-1"	11'-10"	15'-11"	5'-11"	10'-0"	12'-1"
PT2-1212A-3*2	25,950	15,480	5,870	24'-1"	11'-10"	16'-11"	5'-11"	11'-0"	12'-1"
PT2-1212A-4*2	28,646	17,116	6,097	24'-1"	11'-10"	18'-7"	7'-7"	12'-8"	12'-1"
PT2-1212A-5*2	29,496	17,956	6,517	24'-1"	11'-10"	19'-7"	7'-7"	13'-8"	12'-1"
PT2-1212A-1*3	35,350	19,640	4,600	36'-2"	11'-10"	15'-11"	6'-11"	10'-0"	12'-1"
PT2-1212A-2*3	37,010	21,300	5,150	36'-2"	11'-10"	16'-11"	6'-11"	11'-0"	12'-1"
PT2-1212A-3*3	39,150	23,440	5,870	36'-2"	11'-10"	17'-11"	6'-11"	12'-0"	12'-1"
PT2-1212A-4*3	43,198	25,898	6,097	36'-2"	11'-10"	19'-9"	8'-9"	13'-10"	12'-1"
PT2-1212A-5*3	44,478	27,158	6,517	36'-2"	11'-10"	20'-9"	8'-9"	14'-10"	12'-1"
PT2-1212A-1*4	47,270	26,330	4,600	24'-1"	23'-9"	16'-11"	7'-11"	11'-0"	—
PT2-1212A-2*4	49,490	28,550	5,150	24'-1"	23'-9"	17'-11"	7'-11"	12'-0"	—
PT2-1212A-3*4	52,340	31,400	5,870	24'-1"	23'-9"	18'-11"	7'-11"	13'-0"	—
PT2-1212A-4*4	57,741	34,651	6,097	24'-1"	23'-9"	20'-7"	9'-7"	14'-8"	—
PT2-1212A-5*4	59,421	36,331	6,517	24'-1"	23'-9"	21'-7"	9'-7"	15'-8"	—
PT2-1214A-1*1	13,210	7,000	5,080	14'-0"	11'-10"	13'-11"	4'-11"	8'-0"	—
PT2-1214A-2*1	13,860	7,650	5,730	14'-0"	11'-10"	14'-11"	4'-11"	9'-0"	—
PT2-1214A-3*1	14,360	8,140	6,220	14'-0"	11'-10"	15'-11"	4'-11"	10'-0"	—
PT2-1214A-4*1	15,463	8,953	6,447	14'-0"	11'-10"	17'-5"	6'-5"	11'-6"	—
PT2-1214A-5*1	15,953	9,443	6,937	14'-0"	11'-10"	18'-5"	6'-5"	12'-6"	—
PT2-1214A-1*2	26,580	14,150	5,080	28'-1"	11'-10"	14'-11"	5'-11"	9'-0"	14'-1"
PT2-1214A-2*2	27,880	15,450	5,730	28'-1"	11'-10"	15'-11"	5'-11"	10'-0"	14'-1"
PT2-1214A-3*2	28,860	16,440	6,220	28'-1"	11'-10"	16'-11"	5'-11"	11'-0"	14'-1"
PT2-1214A-4*2	31,066	18,066	6,447	28'-1"	11'-10"	18'-7"	7'-7"	12'-8"	14'-1"
PT2-1214A-5*2	32,046	19,046	6,937	28'-1"	11'-10"	19'-7"	7'-7"	13'-8"	14'-1"
PT2-1214A-1*3	40,090	21,450	5,080	42'-2"	11'-10"	15'-11"	6'-11"	10'-0"	14'-1"
PT2-1214A-2*3	42,040	23,400	5,730	42'-2"	11'-10"	16'-11"	6'-11"	11'-0"	14'-1"
PT2-1214A-3*3	43,510	24,880	6,220	42'-2"	11'-10"	17'-11"	6'-11"	12'-0"	14'-1"
PT2-1214A-4*3	46,818	27,318	6,447	42'-2"	11'-10"	19'-9"	8'-9"	13'-10"	14'-1"
PT2-1214A-5*3	48,298	28,788	6,937	42'-2"	11'-10"	20'-9"	8'-9"	14'-10"	14'-1"
PT2-1214A-1*4	53,750	28,900	5,080	28'-1"	11'-10"	16'-11"	7'-11"	11'-0"	—
PT2-1214A-2*4	56,350	31,500	5,730	28'-1"	11'-10"	17'-11"	7'-11"	12'-0"	—
PT2-1214A-3*4	58,320	33,470	6,220	28'-1"	11'-10"	18'-11"	7'-11"	13'-0"	—
PT2-1214A-4*4	62,731	36,721	6,447	28'-1"	11'-10"	20'-7"	9'-7"	14'-8"	—
PT2-1214A-5*4	64,691	38,681	6,937	28'-1"	11'-10"	21'-7"	9'-7"	15'-8"	—

**NOTES:**

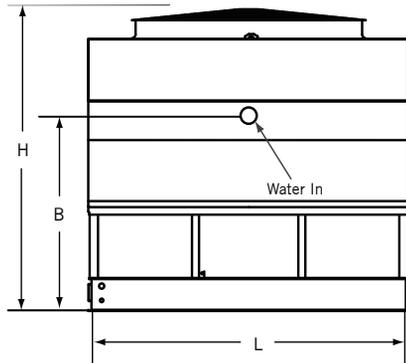
1. Data corresponds to all available motors for this model.
2. Operating weight is based on the water level in the cold water basin at overflow height. If a lower operating weight is needed to meet design requirements, your local BAC Representative can provide additional assistance.

**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.

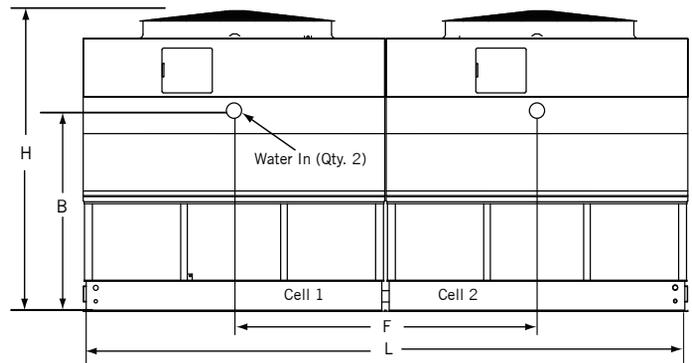
# PT2 Engineering Data



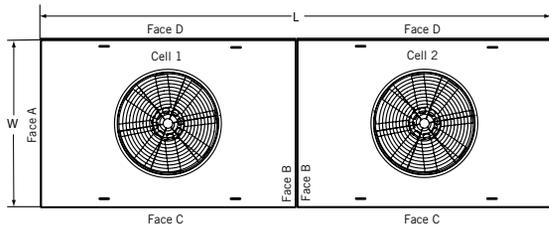
**Face A:** PT2-1218A-\*\*1 and PT2-1218A-\*\*2  
(For 2-Cell Configurations, Connections Typical at Each End)



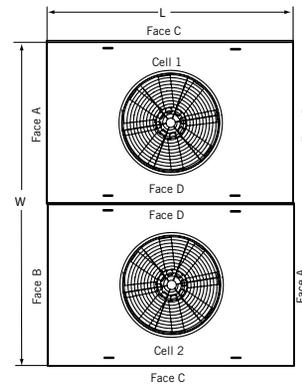
**Face C Single Cell:** Models PT2-1218A-\*\*1



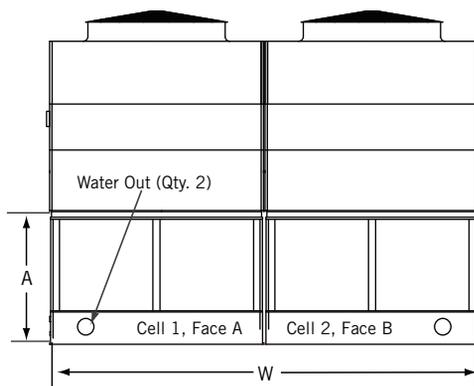
**Face C 2-Cell:** Models PT2-1218A-\*\*2



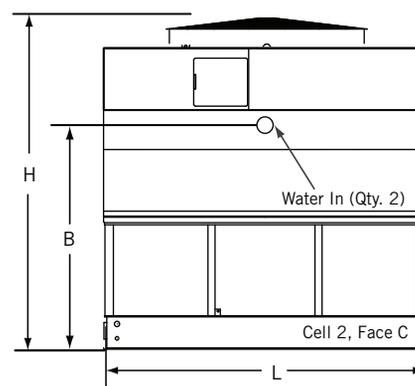
**Plan View 2-Cell:** Models PT2-1218A-\*\*2



**Plan View 2-Cell:** Models PT2-1218A-\*\*T



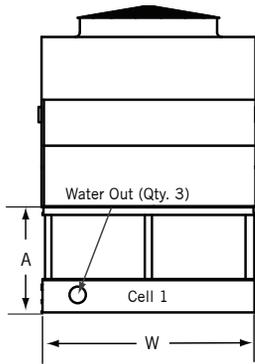
**Face A/B of 2-Cell Configuration:** Models PT2-1218A-\*\*T  
(Connections Typical at Each End)



**Face C 2-Cell Configuration:** Models PT2-1218A-\*\*T

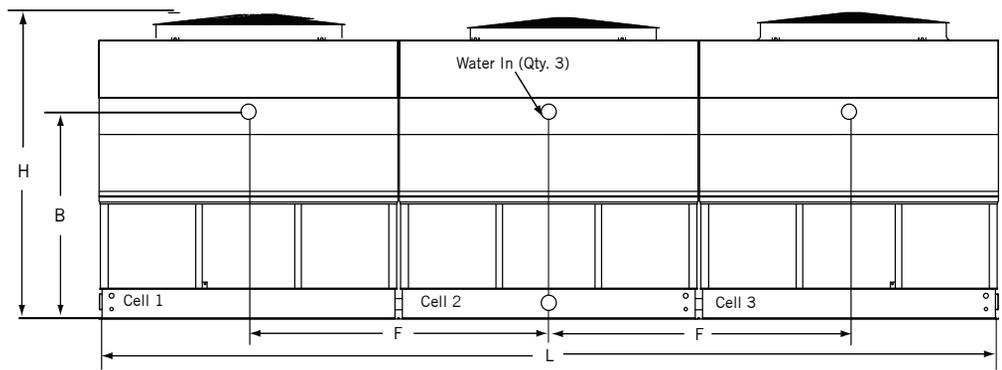
## NOTES:

1. Data corresponds to all available motors for this model.
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. For PT2-1218A-\*S\* models, two fans are standard.

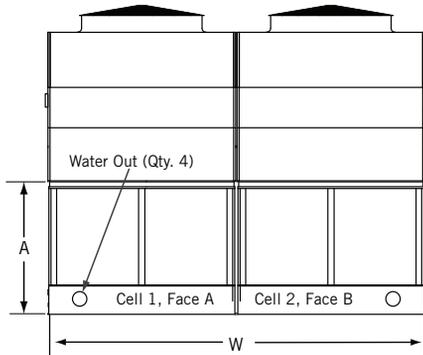


Face A 3-Cell Configuration: Models PT2-1218A-\*\*\*3

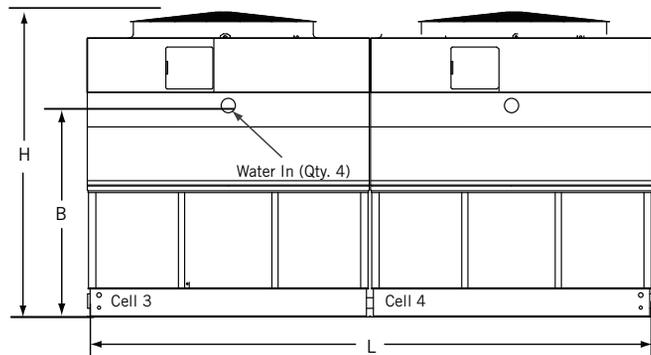
Connections Typical at Each End



Face C 3-Cell Configuration: Models PT2-1218A-\*\*\*3



Face A/B Quad Configuration for Models PT2-1218A-\*\*\*4, Connections Typical at Each End



Face C Quad Configuration for Models PT2-1218A-\*\*\*4, Connections Typical at Each End

Model Number <sup>(1)</sup>	Nominal Weights (lbs)			Dimensions					
	Operating <sup>(2)</sup>	Shipping	Heaviest Section	L	W	H	A	B	F
PT2-1218A-1*1	20,020	10,630	6,920	18'-1"	11'-10"	15'-1"	5'-10"	8'-10"	—
PT2-1218A-2*1	20,715	11,325	7,615	18'-1"	11'-10"	16'-1"	5'-10"	9'-10"	—
PT2-1218A-3*1	22,190	12,800	9,090	18'-1"	11'-10"	17'-1"	5'-10"	10'-10"	—
PT2-1218A-4*1	23,185	13,531	9,376	18'-1"	11'-10"	18'-1"	6'-10"	11'-10"	—
PT2-1218A-5*1	23,846	14,192	10,037	18'-1"	11'-10"	19'-1"	6'-10"	12'-10"	—
PT2-1218A-1*2	40,270	21,500	6,920	36'-1"	11'-10"	16'-1"	6'-10"	9'-10"	18'-1"
PT2-1218A-2*2	41,670	22,900	7,615	36'-1"	11'-10"	17'-1"	6'-10"	10'-10"	18'-1"
PT2-1218A-3*2	44,620	25,850	9,090	36'-1"	11'-10"	18'-1"	6'-10"	11'-10"	18'-1"
PT2-1218A-4*2	46,610	27,312	9,376	36'-1"	11'-10"	19'-3"	8'-0"	13'-0"	18'-1"
PT2-1218A-5*2	47,932	28,634	10,037	36'-1"	11'-10"	20'-3"	8'-0"	14'-0"	18'-1"
PT2-1218A-1*T	40,400	21,630	6,920	18'-1"	23'-9"	16'-7"	7'-4"	10'-4"	—
PT2-1218A-2*T	41,800	23,030	7,615	18'-1"	23'-9"	17'-7"	7'-4"	11'-4"	—
PT2-1218A-3*T	44,750	25,980	9,090	18'-1"	23'-9"	18'-7"	7'-4"	12'-4"	—
PT2-1218A-4*T	46,740	27,442	9,376	18'-1"	23'-9"	20'-5"	9'-2"	14'-2"	—
PT2-1218A-5*T	48,062	28,764	10,037	18'-1"	23'-9"	21'-5"	9'-2"	15'-2"	—
PT2-1218A-1*3	60,610	32,450	6,920	54'-2"	11'-10"	16'-7"	7'-4"	10'-4"	18'-1"
PT2-1218A-2*3	62,705	34,545	7,615	54'-2"	11'-10"	17'-7"	7'-4"	11'-4"	18'-1"
PT2-1218A-3*3	67,130	38,970	9,090	54'-2"	11'-10"	18'-7"	7'-4"	12'-4"	18'-1"
PT2-1218A-4*3	69,954	41,381	9,376	54'-2"	11'-10"	20'-5"	9'-2"	14'-2"	18'-1"
PT2-1218A-5*3	72,762	43,777	10,037	54'-2"	11'-10"	21'-5"	9'-2"	15'-2"	18'-1"
PT2-1218A-1*4	81,300	43,750	6,920	36'-1"	23'-9"	17'-7"	8'-4"	11'-4"	—
PT2-1218A-2*4	84,100	46,550	7,615	36'-1"	23'-9"	18'-7"	8'-4"	12'-4"	—
PT2-1218A-3*4	89,990	52,440	9,090	36'-1"	23'-9"	19'-7"	8'-4"	13'-4"	—
PT2-1218A-4*4	93,275	55,175	9,376	36'-1"	23'-9"	21'-3"	6'-9"	15'-0"	—
PT2-1218A-5*4	97,569	58,919	10,037	36'-1"	23'-9"	22'-3"	6'-9"	16'-0"	—

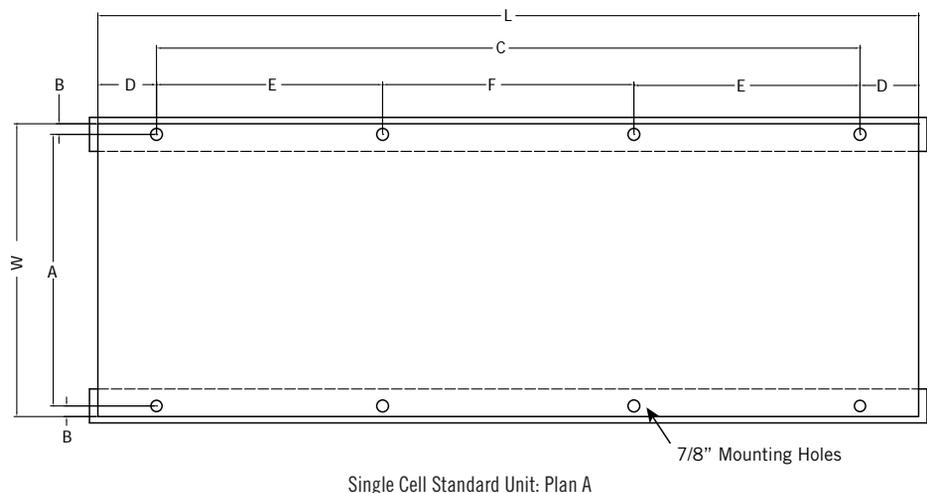
# PT2 Structural Support: Plan A

The recommended support arrangement for the PT2 Cooling Tower consists of parallel structural members positioned as shown on the drawing below. 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 PT2 Cooling Tower may also be supported on columns at the anchor bolt locations shown.

To support a PT2 Cooling Tower on columns with an alternate support arrangement, or the optional structurally upgraded unit, consult your local BAC Representative.

## NOTES:

1. Contact your local BAC Representative for multi-cell or structurally upgraded unit support.
2. Support members and anchor bolts shall be designed, furnished, and installed by others.
3. 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.
4. Support members shall be level at the top.
5. Refer to the certified unit support drawing for loading and additional support requirements.
6. The length of the support members shall be at least equal to the length of the basin. Refer to engineering data for basin dimensions. Support data is tabulated in the table to the right.

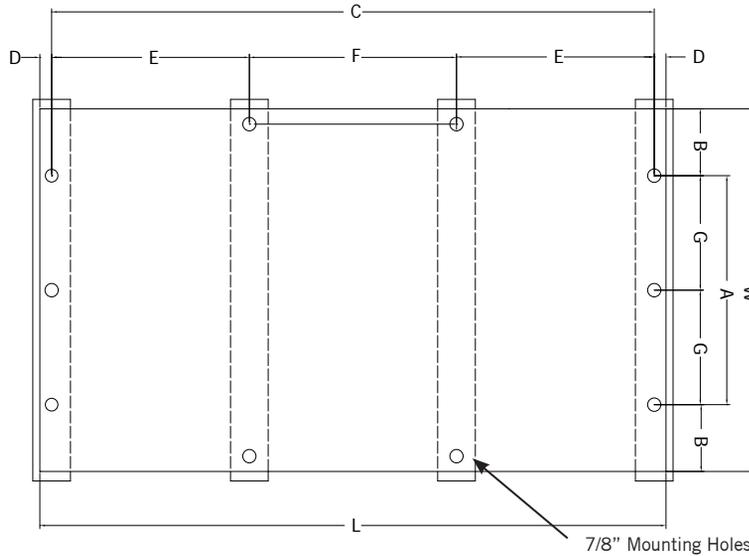


Single Cell Standard Unit: Plan A

## SINGLE CELL STANDARD UNIT: PLAN A

Model Number	L	W	A	B	C	D	E	F	Anchor Bolt Qty.
PT2-0412A	11'-11 3/4"	4'-0"	3'-9 3/4"	1 1/8"	10'-5 1/4"	9 1/4"	—	—	4
PT2-0709A	8'-11 3/4"	7'-3 1/4"	7'-1"	1 1/8"	7'-5 1/4"	9 1/4"	—	—	4
PT2-0809A	8'-11 3/4"	8'-5 3/4"	8'-3 1/2"	1 1/8"	7'-5 1/4"	9 1/4"	—	—	4
PT2-0812A	11'-11 3/4"	8'-5 3/4"	8'-3 1/2"	1 1/8"	10'-5 1/4"	9 1/4"	—	—	4
PT2-0814A	13'-11 3/4"	8'-5 3/4"	8'-3 1/2"	1 1/8"	13'-3 3/4"	4"	—	—	4
PT2-1009A	8'-11 3/4"	9'-10"	9'-7 3/4"	1 1/8"	7'-5 1/4"	9 1/4"	—	—	4
PT2-1012A	11'-11 3/4"	9'-10"	9'-7 3/4"	1 1/8"	10'-5 1/4"	9 1/4"	—	—	4
PT2-1212A	11'-11 3/4"	11'-10"	11'-7 3/4"	1 1/8"	10'-5 1/4"	9 1/4"	—	—	4
PT2-1214A	13'-11 3/4"	11'-10"	11'-7 3/4"	1 1/8"	13'-3 3/4"	4"	—	—	4
PT2-1218A	17'-11 3/4"	11'-10"	11'-7 3/4"	1 1/8"	17'-3 3/4"	4"	5'-8 3/32"	5'-11 1/2"	8

# PT2 Structural Support: Plan B



Single Cell Standard Unit: Plan B



## NOTES:

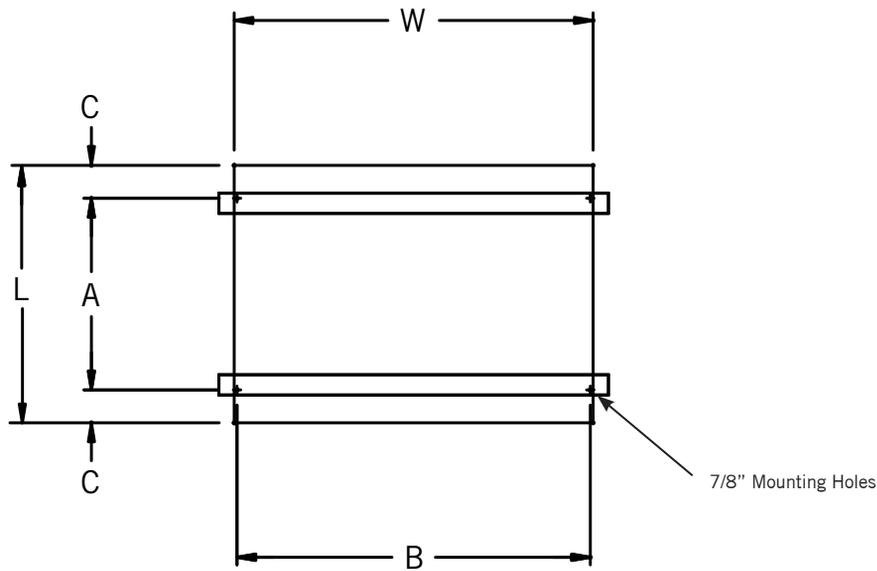
1. Contact your local BAC Representative for multi-cell or structurally upgraded unit support.
2. Support members and anchor bolts shall be designed, furnished, and installed by others.
3. Design of support members and anchor bolts shall be in accordance with the strength and serviceability requirements of the applicable building code and project specifications.
4. Support members shall be level at the top.
5. Refer to the certified unit support drawing for loading and additional support requirements.
6. The length of the structural member shall be at least equal to the length of the basin. Refer to engineering data for basin dimensions. Support data are tabulated in the table to the left.

## SINGLE CELL STANDARD UNIT: PLAN B

Model Number	L	W	A	B	C	D	E	F	G	Anchor Bolt Qty.
PT2-0412A	11'-11 3/4"	4'-0"	3'-4"	4"	11'-9 1/2"	1 1/8"	—	—	—	4
PT2-0709A	8'-11 3/4"	7'-3 1/4"	6'-7 1/4"	4"	8'-9 1/2"	1 1/8"	—	—	—	4
PT2-0809A	8'-11 3/4"	8'-5 3/4"	7'-9 3/4"	4"	8'-9 1/2"	1 1/8"	—	—	—	4
PT2-0812A	11'-11 3/4"	8'-5 3/4"	7'-9 3/4"	4"	11'-9 1/2"	1 1/8"	—	—	—	4
PT2-0814A	13'-11 3/4"	8'-5 3/4"	7'-9 3/4"	4"	13'-3 3/4"	1 1/8"	—	—	—	4
PT2-1009A	8'-11 3/4"	9'-10"	9'-2"	4"	8'-9 1/2"	1 1/8"	—	—	—	4
PT2-1012A	11'-11 3/4"	9'-10"	9'-2"	4"	11'-9 1/2"	1 1/8"	—	—	—	4
PT2-1212A	11'-11 3/4"	11'-10"	11'-2"	4"	11'-9 1/2"	1 1/8"	—	—	—	4
PT2-1214A	13'-11 3/4"	11'-10"	11'-2"	4"	13'-3 3/4"	1 1/8"	—	—	—	4
PT2-1218A	17'-11 3/4"	11'-10"	11'-2"	4"	17'-9 1/2"	1 1/8"	5'-11"	5'-11 1/2"	5'-7"	10

# PT2 Alternative Structural Support

For replacement installations, the PT2 Cooling Tower has been designed to match the supports of many existing counterflow and crossflow cooling towers without modifications. Shown below are the most common support arrangements which can be accommodated by the PT2. If individual point support is required, or if the support arrangement is not shown as below, consult your local BAC Representative for assistance.



Plan View

Model Number	Unit	A	B	C	L	W
PT2-0412A	VT0-102 thru 116	3'- 9 3/8"	11'- 5 1/2"	1 5/16"	4'- 0"	11'- 11 3/4"
	VTL-103 thru 137	3'- 11"	13'- 11 1/2"	1/2"	4'- 0"	11'- 11 3/4"
PT2-0709A	FXT-115 thru 142	7'- 1 7/8"	8'- 0"	11/16"	7'- 3 1/4"	8'- 11 3/4"
PT2-0809A	VT1-N209 thru N270	7'- 7 5/8"	10'- 5 1/4"	5 1/16"	8'- 5 3/4"	8'- 11 3/4"
PT2-0812A	VT1-N209 thru N270	7'- 7 5/8"	10'- 5 1/4"	5 1/16"	8'- 5 3/4"	11'- 11 3/4"
	Series 15146 thru 15282	6'- 9 3/4"	11'- 7 3/4"	10"	8'- 5 3/4"	11'- 11 3/4"
	VTL/VST	8'- 3 1/2"	8'- 9 1/8"	1 1/8"	8'- 5 3/4"	11'- 11 3/4"
	CFT	8'- 0"	8'- 3 1/2"	2 7/8"	8'- 5 3/4"	11'- 11 3/4"
	VXT-N215 thru N265	7'- 11 1/2"	11'- 7 3/4"	3 1/8"	8'- 5 3/4"	11'- 11 3/4"
	Series 3000	8'- 3 1/4"	8'- 3 1/2"	1 1/8"	8'- 5 3/4"	11'- 11 3/4"
PT2-1012A	VXT-315 thru 400	9'- 10 1/8"	11'- 7 3/4"	(0 1/16")	9'- 10"	11'- 11 3/4"
PT2-1212A	Series 1500	11'- 7 3/4"	10'- 5 1/4"	1 1/8"	11'- 10"	11'- 11 3/4"
	Series 3000	9'- 6"	11'- 11"	1'- 2"	11'- 10"	11'- 11 3/4"
	VXT, VLT, VST	8'- 11 1/4"	11'- 11"	1'- 5 3/8"	11'- 10"	11'- 11 3/4"
	VXT, VXMT	9'- 7 1/2"	11'- 11"	1'- 1 1/4"	11'- 10"	11'- 11 3/4"
	CFT	8'- 0"	11'- 11"	1'- 11"	11'- 10"	11'- 11 3/4"
PT2-0814A, PT2-1214A, and PT2-1218A	Please contact your local BAC Representative for assistance.					