Vertex™ Evaporative Condenser

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Introducing the Vertex™ Evaporative Condenser, where peak reliability meets easy maintenance. This new benchmark combines what you like most about legacy BAC evaporative condensers with new innovations for the future.

TriArmor®
CORROSION PROTECTION SYSTEM

EVERTOUGH™
CONSTRUCTION

BAC's Vertex™ Evaporative Condenser:

Where Peak Reliability Meets Easy Maintenance

188 to 1,434 Tons in a Single Unit

- Maximum Uptime and Reliability
- Easy and Safe Accessibility
- Lowest Installation Costs
- Lowest Maintenance Costs
- Superior Efficiency

Made in USA

IBC Compliant

iar® International Institute of Ammonia Refrigeration

RETA Education • Efficiency • Development

Vertex™ Evaporative Condenser Benefits

The Vertex Condenser offers maximum uptime and offers the easiest and safest accessibility. It also has the lowest total cost of ownership with the lowest installation, maintenance, and operating costs. And of course, the Vertex Condenser uses evaporative cooling, so it's an inherently sustainable solution for your industrial refrigeration and other industrial process applications.

Maximum Uptime & Reliability

Year-Round Operation

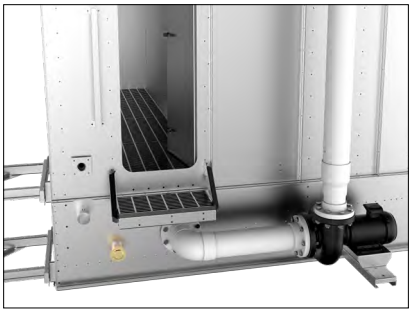
- Maximize reliability and minimize unplanned downtime with the EC Fan System (direct-drive fan system with EC motors and axial fans)
- Enjoy peace of mind and uninterrupted operation with multiple fans and motors
- Perform through the harshest conditions with a durable and robust industrial design
- Increase reliability, corrosion resistance, and longevity with superior material options that save you time and money

Industrial Design for Harshest Conditions

Easy & Safe Accessibility

Alleviate Confined Space Limitations[1]

- The largest access door easily accommodates a 6.5' tall person; a sturdy step and safety handle provides safe entry and exit
- Ground level access to the drive system, pump(s), and terminal box eliminates the need for platforms or ladders to access them
- Stay dry while safely inspecting the basin with an internal walkway
- Reduce maintenance labor costs by 50% and address confined space hazards with a walkable, spacious interior and easy entry and exit[1]
- Industry-leading, most configurable OSHA compliant modular platforms to meet your specific site requirements



Alleviate Confined Space Limitations;Easily Accommodates a 6.5' Tall Person

Lowest Installation Costs

30% Reduction in Installation Costs[2]

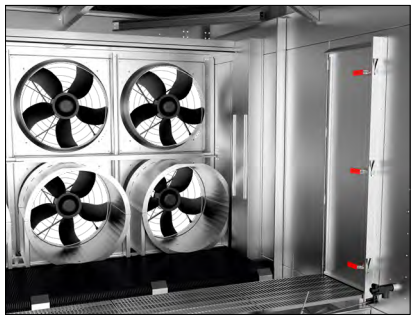
- Reduce on-site labor requirements and ensure on-time commissioning with pre-assembled platform options
- Align the upper section to the lower section in less than 15 minutes per cell, due to the industrial-grade rigidity of the unit
- Simplify field installation and save time with single point EC fan wiring
- Save time and money; no VFD or vibration switch is required[3]

Simplify Field Installation with single point EC fan wiring

Lowest Maintenance Costs

50% Reduction in Maintenance Costs [2]

- No regular maintenance required for the direct-drive EC Fan System
- Easy inspection of the basin, strainer, and drive components with a sturdy internal walkway
- Easy cleaning and improved hygiene with a compact, sloped water basin
- Save on chemical and water costs with up to 30% lower water volume[2]
- Fast and easy inspection of all nozzles with optional pre-assembled platforms at an ergonomic working height
- Reduce maintenance costs and maximize uptime with BAC's enhanced belt-driven independent fan system (optional); that easily allows access to all drive components

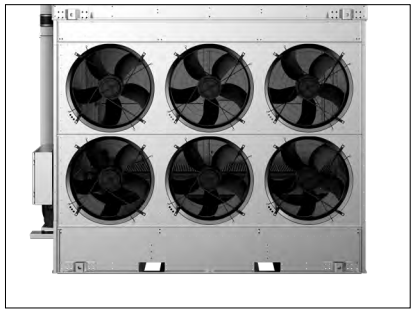


Stay Dry While Safely Inspecting the Basin with the Internal Walkway

Superior Efficiency

10% Lower Energy Usage[2]

- Reduce operating costs with the highly-efficient, direct-drive, variable-speed EC Fan System
- For many replacement jobs, the innovative design can provide a higher capacity or reduced energy usage at the same weight
- Save energy with improved head pressure control in winter months due to the EC Fan System's lower minimum speeds

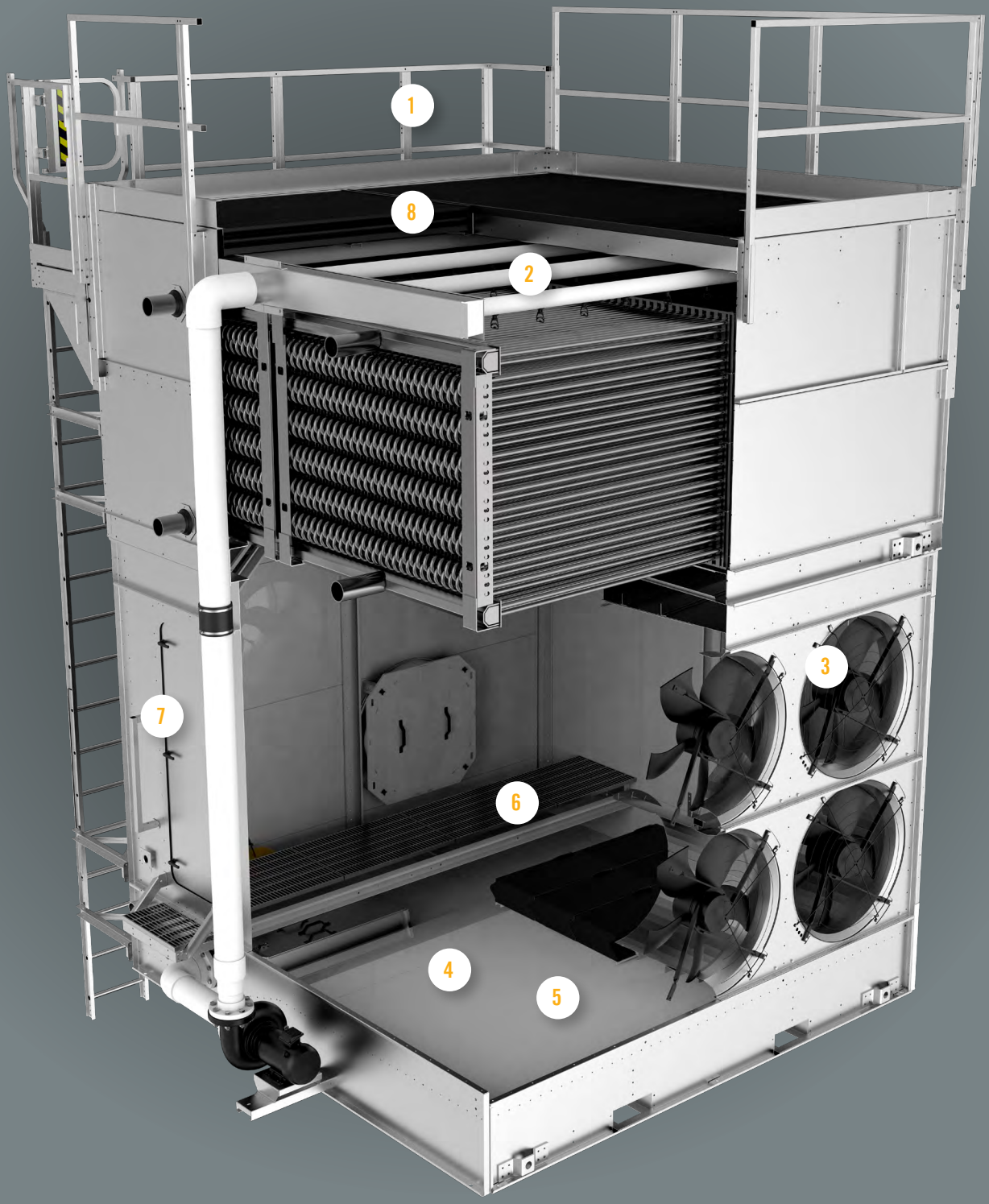


Superior Efficiency with the EC Fan System

NOTE:

1. Check local codes to verify confined space requirements.
2. Comparisons are based on the Vertex Condenser vs. traditional forced draft axial fan evaporative condensers.
3. For EC Fan System models only.

Vertex™ Evaporative Condenser Innovative Design Details



1 Factory Pre-Assembled Platforms with Perimeter Handrails (OPTIONAL)

Easy-to-install design for contractors and owners looking to reduce the cost of installation and ensure on-time commissioning. Safely inspect the nozzles across the entire unit with platforms at an ergonomic height.

2 BranchLok™ Removal System

No tools required to remove or inspect spray branches and nozzles, reducing maintenance costs. Faster cleaning makes peak energy efficiency easier to sustain.

3 EC Fan System

Simple design for lowest maintenance, easiest access and maximum efficiency, this system includes single-stage axial fans and variable-speed EC motors.

4 TriArmor® Corrosion Protection System & EVERTOUGH™ Construction (OPTIONAL)

Superior material options increase reliability, corrosion resistance, and longevity; seamless basins allow for higher cycles of concentration, save water and reduce chemical usage.

5 Basin

The falling water on the high step of the basin causes turbulence and reduces cleaning requirements. The lower water volume reduces chemical and water volume by up to 30%.

6 Internal Walkway

Stay dry while safely inspecting the basin with a sturdy internal walkway.

7 Largest Access Door(s)

The largest access door (68" H x 20" W) is also safe with a sturdy step and safety handle. It's easy for a 6.5' tall person to enter and exit for service. (2nd door optional)

Baltidrive® Power Train (OPTIONAL)

Reduce maintenance costs and maximize uptime with BAC's belt-driven independent fan system. It's the most serviceable, most robust, and most reliable in the industry.

Vertex™ Evaporative Condenser Custom Features & Options

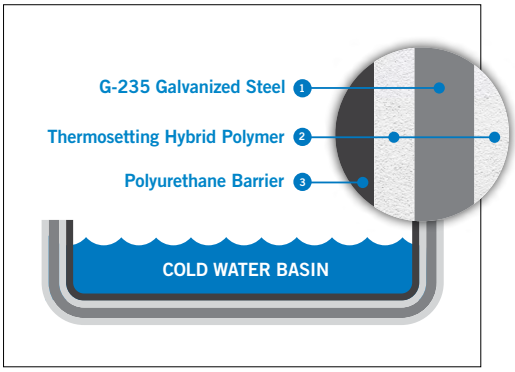
Materials of Construction

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.

Standard Construction

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 panels and structural members are used as the standard material of construction. With proper maintenance and water treatment, G-235 galvanized steel will provide an excellent service life under the operating conditions normally encountered in refrigeration and industrial applications.



TriArmor® Corrosion Protection System Triple Layer Protection of the Basin

Customer Valued

TRIARMOR® CORROSION PROTECTION SYSTEM (OPTION)

The TriArmor® Corrosion Protection System consists of heavy gauge G-235 mill galvanized steel panels fully encapsulated by a thermosetting hybrid polymer and further protected by a polyurethane barrier applied to all submerged surfaces of the cold water basin. The triple layers of protection form a completely seamless cold water basin for the most leak resistant and durable basin in the industry. Other components within the basin, such as the strainer and submerged structural supports, 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 10 years.

Factory 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 for most water chemistries. EVERTOUGH™ Construction is backed by a 5-year equipment warranty

Specifically, the following materials are used in EVERTOUGH™ Construction:

- The basin is constructed with the TriArmor® Corrosion Protection System. The basin is leak tested at the factory and warranted against leaks and corrosion for 10 years.
- Designated steel components above the basin are constructed of heavy-gauge G-235 mill galvanized steel and further protected with a thermosetting hybrid polymer.
- The distribution system is non-corrosive Schedule 40 PVC.
- Other components within the basin, such as the strainer and submerged structural supports, will be constructed of stainless steel.
- The galvanized steel coils are covered by a 1 year warranty.

EVERTOUGH™ Construction

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.

Welded Stainless Steel Basin

STAINLESS STEEL (OPTION)

Several stainless steel material of construction options are available

- **WELDED STAINLESS STEEL BASIN**
  All steel panels and structural members of the basin are constructed from stainless steel. Seams between panels inside the basin are welded, providing an advantage over bolted stainless steel 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 (OPTION)**
  Steel panels and structural elements are constructed of stainless steel. Seams between panels inside the basin are welded. The basin is leak tested at the factory and welded seams are provided with a 5-year leak-proof warranty.

Vertex™ Evaporative Condenser Custom Features & Options

Coil Configurations

BAC offers a large selection of coil configuration options to fulfill any thermal and pressure drop requirements.

STANDARD SERPENTINE COIL

The standard cooling coil is constructed of continuous lengths of all prime surface steel. The coil is hot-dip galvanized after fabrication (HDGAF) to apply a thick, zinc corrosion barrier over the entire exterior surface of the coil. The coil is designed for low pressure drop with sloping tubes for free drainage of fluid. Each coil has a maximum allowable working pressure of 300 psig (2,068 kPa) and is fabricated per ASME B31.5 standards to ensure the highest quality and integrity.

Standard Serpentine Coil

STAINLESS STEEL COIL (OPTION)

Coils are available in stainless steel for specialized applications The coil is designed for low pressure drop with sloping tubes for free drainage of fluid. Each coil has a maximum allowable working pressure of 300 psig (2,068 kPa) and is fabricated per ASME B31.5 standards to ensure the highest quality and integrity.

ASME U DESIGNATOR COIL (OPTION)

BAC offers coils that are certified in accordance with the ASME Boiler and Pressure Vessel Code, Section VIII, Division I. ASME U designated coils are available for projects requiring ASME certified pressure vessels and involve 3rd party inspection and certification. Standard ASME U designated coils are rated at 340 psig (2,344 kPa) maximum allowable working pressure, and they are pneumatically tested at 375 psig (2,586 kPa).

NOTE:

A Canadian Registration number (CRN) is required for all pressure vessels over 15 psig entering Canada. The CRN identifies that he design of a boiler, or fitting has been accepted and registered for use in Canada. CRN is available for all standard coil configurations shipping into Canada.

MULTIPLE CIRCUIT COILS/AUXILIARY COOLING CIRCUIT (OPTION)

Split coil configurations are available to allow separate process fluid or refrigerant loops through the same unit. Separate loops may be needed for multiple applications requiring different temperature processes or multiple types of process fluids or refrigerants. Multiple refrigerant circuit coils are generally required on halocarbon refrigerant systems, where it is common practice to maintain individual compressor systems. The quantity of circuits, capacity per circuit, and desired connection size and type should be specified when requesting this option.

Multiple Circuit Coils

Vertex™ Evaporative Condenser 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. The Vertex™ Evaporative Condenser is available with two drive system options: the EC Fan System or the BALTIDRIVE® Power Train.

EC Fan System

Customer Valued

EC FAN SYSTEM (STANDARD ON VRC-X-X-XB MODELS)

The EC Fan System is a direct-drive system with single-stage electronically commutated (EC) motors and axial fans. It's simple design for lowest maintenance, allows for easiest access, maximum efficiency, and offers the highest reliability.

BALTIDRIVE® POWER TRAIN (STANDARD ON VRC-X-X-XA MODELS)

Reduce maintenance costs with BAC's redundant independent motor belt-drive system. It's the most serviceable, most robust, and most reliable in the industry. The fans, motors, and drive system on the Vertex Condenser are located outside the discharge air stream of the unit, protecting them from moisture, condensation, and icing while facilitating maintenance. The motor base has been redesigned to allow for alignment in multiple directions and has been raised for improved access to the adjustment bolts. The design enhances repeatability, serviceability, and reliability, all leading to higher quality. The fan drive system consists of specially designed powerbands, taper lock sheaves, minimum L10 bearing life of 94,000 hours and dedicated premium efficient cooling tower duty motor to provide maximum performance and reliability. 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. Extended lubrication lines are standard for lubrication of the fan shaft bearings. This system is covered by a comprehensive 5-year motor and drive warranty.

BALTIDRIVE® Power Train-Upgraded Motor Base

DUAL DRIVE (OPTION FOR VRC-X-X-XA MODELS)

The dual drive option for the BALTIDRIVE® Power Train 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.

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.

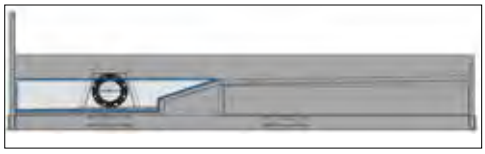
Vibration Cutout Switch

Basin

The spray water collects in the basin which is pumped back over the condensing coil. The hygienic basin is sloped toward the pump suction. During operation, this design eliminates any stagnant water zones, which are susceptible to biological growth. Save on chemical and water costs with up to 30% lower water volume.

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.


Vertex Evaporative Condenser Basin 30% Lower Water

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 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.


Traditional Forced Draft Evaporative Condenser Basin

Vertex™ Evaporative Condenser Custom Features & Options

BASIN HEATERS (OPTION)

Evaporative cooling equipment exposed to below freezing ambient temperatures require protection to prevent freezing of the water in the 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.

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

HEATER kW DATA

Model Number	0°F (-17.8°C) Ambient Heaters				-20°F (-28.9°C) Ambient Heaters			
	Baltidrive Models		EC Direct Drive Models		Baltidrive Models		EC Direct Drive Models	
	Number of Heaters	kW per Heater	Number of Heaters	kW per Heater	Number of Heaters	kW per Heater	Number of Heaters	kW per Heater
VRC-x-1012-x	1	7	1	10	1	9	1	14
VRC-x-1018-x	1	10	2	7	1	14	2	10
VRC-x-1212-x	1	8	1	12	1	12	1	15
VRC-x-1218-x	1	12	2	9	1	18	2	12
VRC-x-1224-x	2	7	2	10	2	12	2	14
VRC-x-1036-x	2	10	4	7	2	14	4	10
VRC-x-1224-x	2	8	2	12	2	12	2	15
VRC-x-1236-x	2	12	4	9	2	18	4	12

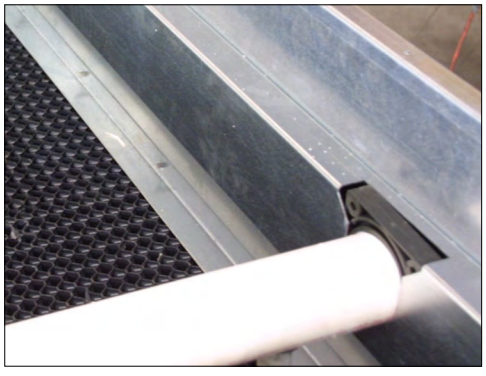
LOW AND HIGH LEVEL ALARMS (OPTION)

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.

Water Distribution System

BRANCHLOCK 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.



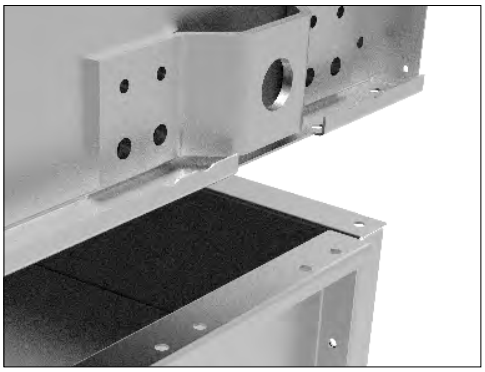
BranchLok™ Removal System

STANDARD SPRAY WATER PUMP

The Vertex Condenser water distribution system comes standard with an integral spray water pump sized to distribute the recirculating water over the coil, maximizing capacity. The patented BAC 360 Spray Nozzles are non-clog, ensure even flow over the coil area, and are simple to remove for maintenance.

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. Align the upper section to the lower section in less than 15 minutes per cell. You can also simplify field installation with single point EC fan wiring standard on the EC Fan System. Not an option for Baltidrive® units



Easy Alignment

Air Intake Options

In an evaporative condenser, airborne debris can be trapped in the water through the unit's air intake. The Vertex Evaporative Condenser has several options for air intake accessories that prevent debris from entering the system and maintain even unobstructed flow through the unit. Reducing the amount of debris that enters the unit lowers maintenance requirements and helps to maintain thermal efficiency.

Air Intake Screen

AIR INTAKE SCREENS (STANDARD ON VRC-X-X-XA MODELS)

Hot dipped galvanized 1 1/4" x 1 1/4" wire mesh screen is factory-installed over the air intake to prevent debris from entering the unit.

SOLID BOTTOM PANELS (STANDARD ON VRC-X-X-XA MODELS)

Factory-installed bottom panels provide additional protection from birds and debris from entering the unit through the bottom air intake area.

Vertex™ Evaporative Condenser Custom Features & Options

Access Options

BAC's evaporative equipment is designed to be easily maintained for sustaining capacity over a longer life. All access options are meet OSHA requirements to ensure personnel safety and code compliance.

Customer Valued

STANDARD INTERNAL WALKWAY

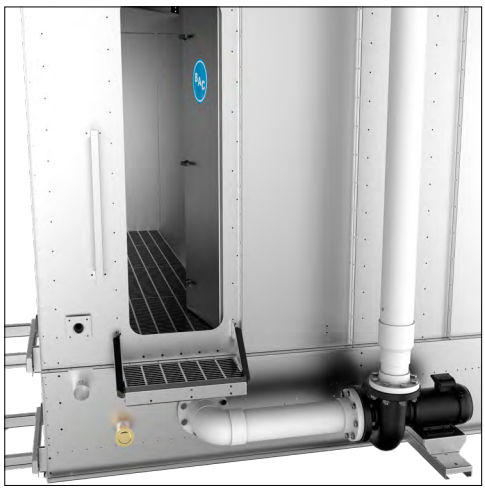
All Vertex Condensers are supplied with a sturdy internal walkway above the water line. The walkway provides outstanding access to inspect the cold water basin, drive components, and the underside of the condensing coil, all while keeping your feet dry.

LARGEST ACCESS DOOR (2ND DOOR AVAILABLE AS AN OPTION)

The largest access door (68" H x 20" W) is also safe with a sturdy step and safety handle. It's easy for a 6.5' tall person to enter and exit for service.

FACTORY PRE-ASSEMBLED PLATFORMS WITH PERIMETER HANDRAILS – INDUSTRY LEADING FLEXIBILITY (OPTION)

Easy-to-install design for contractors and owners looking to reduce the cost of installation and ensure on-time commissioning. Safely inspect the nozzles across the entire unit with platforms at an ergonomic height. Every external platform module is pre-assembled at the factory to ensure that every component will fit and function exactly as described. The platform will attach quickly in the field with minimal fasteners. Platforms, ladders, and safety cages can be added at the time of order or as an aftermarket item. All components are designed to meet OSHA requirements.

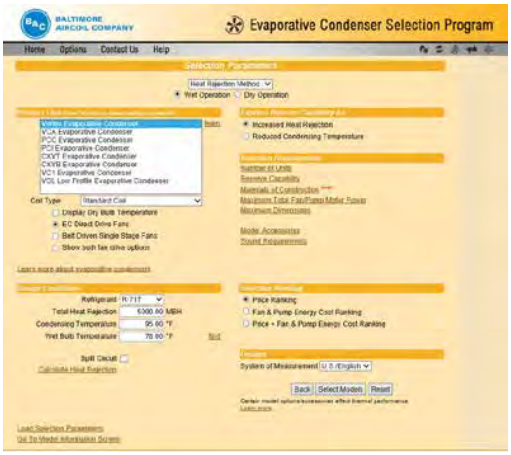


Alleviate Confined Space Constraints; Oversized Access

Pre-Assembled External Platform

Selection Software

BAC's Vertex Evaporative Condenser has the best selection software in the industry.



SELECTION

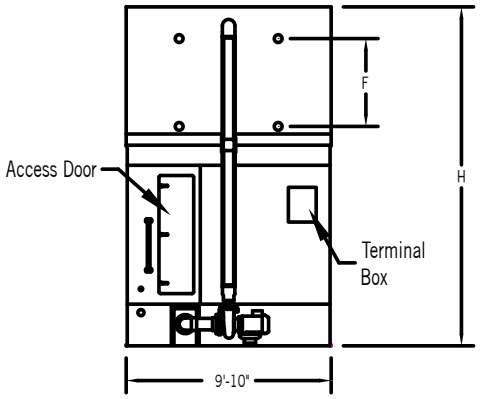
Making selections for your specific application is easier than ever with BAC's selection software. You can compare various condensers to see which one is the perfect fit.

INFORMATION PACKET

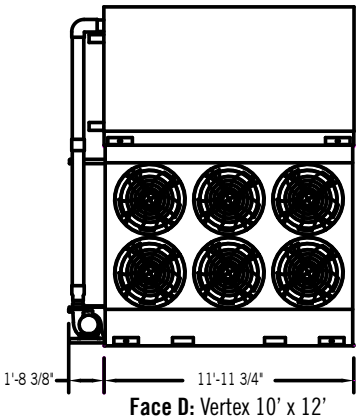
Since the Vertex Evaporative Condenser has premium features, BAC can provide a customized report for your specific project to show the value of the Vertex versus other evaporative condensers.

The selection output will include technical details, explanations of features, a value table, and more.

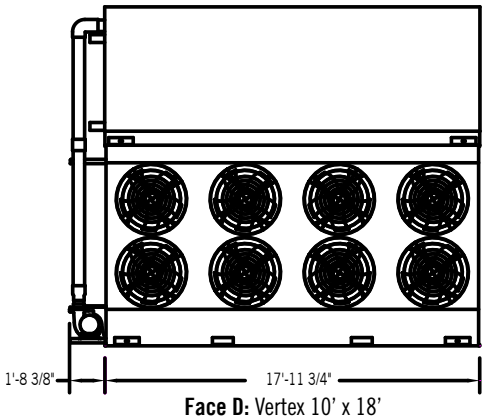
Vertex™ Evaporative Condenser Engineering Data



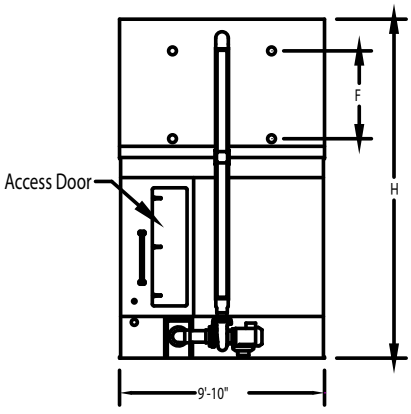
Face A: Vertex 10' x 12' and 10' x 18' EC Fan System Units



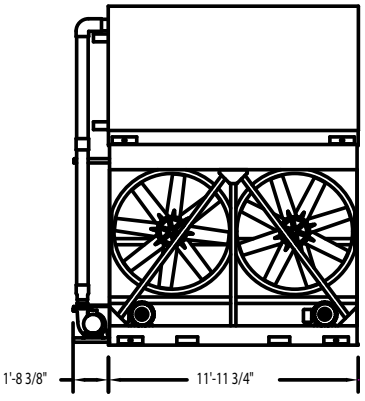
Face D: Vertex 10' x 12' EC Fan System Units



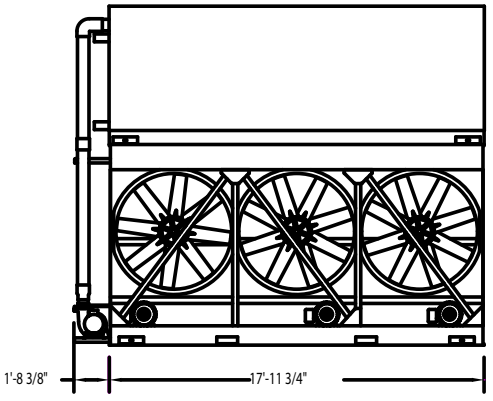
Face D: Vertex 10' x 18' EC Fan System Units



Face A: Vertex 10' x 12' and 10' x 18' Units Baltidrive® Power Train Units



Face D: Vertex 10' x 12' Baltidrive® Power Train Units



Face D: Vertex 10' x 18' Units Baltidrive® Power Train Units

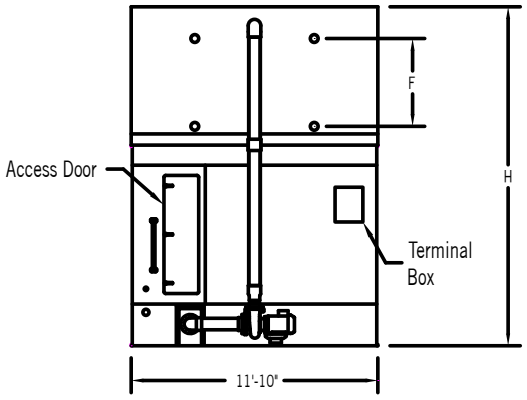
NOTES:

1. Model number denotes nominal tons using R-717 tons are at a 96.3°F condensing temperature, a 20°F suction temperature, and a 78°F entering wet-bulb temperature.
2. R-22 tons are at a 105°F condensing temperature, a 40°F suction temperature, and a 78°F entering wet-bulb temperature.
3. Unless otherwise noted, the coil section is the heaviest section.
4. Operating weight is for the unit with the water level at the overflow level and with the coil charged with R-717.
5. The R-22 operating charge is 1.93 times the R-717 charge; R-134a is 1.98 times.
6. Drain size is based on a bottom connection.
7. Coil inlet and outlet connections are 4" beveled for welding.

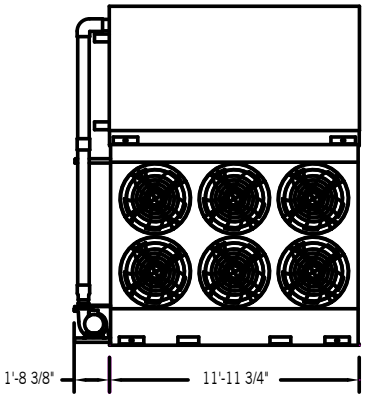
Do not use for construction. Refer to factory certified dimensions. This catalog includes data current at the time of publication, which should be reconfirmed at the time of purchase.

Nom. Box Size	Model Number[1]	Base Heat Rejection (MBH)	R-22 Tons[2]	Fan Motor (HP)	Airflow Rate (CFM)	Pump Motor (HP)	Spray Flow Rate (GPM)	Approximate Weight (lbs)			R-717 Operating Charge[5] (lbs)	Internal Coil Volume (ft^3)	Remote Sump			F	H
								Ship Weight	Heaviest Section[3]	Oper. Weight[4]			Drain Size[6] (in)	Volume Req. (gal)	Approx. Oper. Weight (lbs)		
10' x 12' - EC Fan Sysyem	VRC-0241A-1012N-GB	4,986	339	(6) 2.6	70,700	5	500	11,990	7,350	16,330	345	42	8	313	14,530	2'-4 1/4"	14'-5"
	VRC-0269A-1012N-HB	5,569	379	(6) 4.3	83,400			12,050	7,350	16,390	345	42			14,600	2'-4 1/4"	14'-5"
	VRC-0297A-1012N-JB	6,156	419	(6) 6.7	96,800			12,150	7,350	16,490	345	42			14,700	2'-4 1/4"	14'-5"
	VRC-0270A-1012N-GB	5,572	379	(6) 2.6	64,100			13,340	8,700	17,760	427	52			15,960	2'-11 3/4"	15'-0"
	VRC-0301A-1012N-HB	6,223	423	(6) 4.3	75,500			13,400	8,700	17,820	427	52			16,030	2'-11 3/4"	15'-0"
	VRC-0332A-1012N-JB	6,880	468	(6) 6.7	87,600			13,500	8,700	17,920	427	52			16,130	2'-11 3/4"	15'-0"
	VRC-0289A-1012N-GB	5,974	406	(6) 2.6	53,100			15,610	10,970	20,170	566	69			18,360	3'-7"	15'-8"
	VRC-0323A-1012N-HB	6,671	454	(6) 4.3	62,600			15,670	10,970	20,230	566	69			18,430	3'-7"	15'-8"
	VRC-0356A-1012N-JB	7,375	502	(6) 6.7	72,600			15,770	10,970	20,330	566	69			18,530	3'-7"	15'-8"
	VRC-0310A-1012N-GB	6,419	437	(6) 2.6	54,800			17,110	12,470	21,760	658	80			19,960	4'-2 1/2"	16'-3"
	VRC-0346A-1012N-HB	7,169	488	(6) 4.3	64,600			17,170	12,470	21,820	658	80			20,030	4'-2 1/2"	16'-3"
	VRC-0383A-1012N-JB	7,925	539	(6) 6.7	74,900			17,270	12,470	21,920	658	80			20,130	4'-2 1/2"	16'-3"
10' x 12' - BALTIDRIVE®	VRC-0213A-1012N-HA	4,410	300	(2) 5	59,800	5	500	12,840	7,350	17,160	345	42	8	313	15,390	2'-4 1/4"	14'-5"
	VRC-0235A-1012N-JA	4,866	331	(2) 7.5	68,500			12,910	7,350	17,230	345	42			15,450	2'-4 1/4"	14'-5"
	VRC-0242A-1012N-HA	4,998	340	(2) 5	55,400			14,190	8,700	18,590	427	52			16,820	2'-11 3/4"	15'-0"
	VRC-0266A-1012N-JA	5,513	375	(2) 7.5	63,400			14,260	8,700	18,660	427	52			16,880	2'-11 3/4"	15'-0"
	VRC-0285A-1012N-KA	5,909	402	(2) 10	69,800			14,280	8,700	18,680	427	52			16,900	2'-11 3/4"	15'-0"
	VRC-0286A-1012N-JA	5,895	401	(2) 7.5	54,500			16,530	10,970	21,070	566	69			19,280	3'-7"	15'-8"
	VRC-0305A-1012N-KA	6,306	429	(2) 10	60,000			16,550	10,970	21,090	566	69			19,300	3'-7"	15'-8"
	VRC-0336A-1012N-LA	6,953	473	(2) 15	68,600			16,730	10,970	21,270	566	69			19,480	3'-7"	15'-8"
	VRC-0279A-1012N-HA	5,777	393	(2) 5	49,900			17,960	12,470	22,590	658	80			20,820	4'-2 1/2"	16'-3"
	VRC-0307A-1012N-JA	6,365	433	(2) 7.5	57,100			18,030	12,470	22,660	658	80			20,880	4'-2 1/2"	16'-3"
	VRC-0330A-1012N-KA	6,821	464	(2) 10	62,800			18,050	12,470	22,680	658	80			20,900	4'-2 1/2"	16'-3"
	VRC-0364A-1012N-LA	7,526	512	(2) 15	71,900			18,230	12,470	22,860	658	80			21,080	4'-2 1/2"	16'-3"
10' x 18' - EC Fan System	VRC-0357A-1018N-GB	7,384	502	(8) 2.6	97,200	7.5	760	16,430	10,440	22,790	513	63	10	456	20,270	2'-4 1/4"	14'-5"
	VRC-0399A-1018N-HB	8,255	562	(8) 4.3	114,600			16,520	10,440	22,880	513	63			20,360	2'-4 1/4"	14'-5"
	VRC-0441A-1018N-JB	9,127	621	(8) 6.7	133,000			16,650	10,440	23,010	513	63			20,490	2'-4 1/4"	14'-5"
	VRC-0389A-1018N-GB	8,060	548	(8) 2.6	90,300			18,410	12,420	24,890	637	78			22,370	2'-11 3/4"	15'-0"
	VRC-0435A-1018N-HB	9,010	613	(8) 4.3	106,500			18,500	12,420	24,980	637	78			22,460	2'-11 3/4"	15'-0"
	VRC-0481A-1018N-JB	9,962	678	(8) 6.7	123,600			18,630	12,420	25,110	637	78			22,590	2'-11 3/4"	15'-0"
	VRC-0426A-1018N-GB	8,812	599	(8) 2.6	74,200			21,720	15,730	28,410	848	104			25,890	3'-7"	15'-8"
	VRC-0476A-1018N-HB	9,849	670	(8) 4.3	87,500			21,810	15,730	28,500	848	104			25,980	3'-7"	15'-8"
	VRC-0526A-1018N-JB	10,889	741	(8) 6.7	101,500			21,940	15,730	28,630	848	104			26,110	3'-7"	15'-8"
	VRC-0457A-1018N-GB	9,470	644	(8) 2.6	76,000			23,910	17,920	30,740	987	121			28,220	4'-2 1/2"	16'-3"
	VRC-0511A-1018N-HB	10,586	720	(8) 4.3	89,600			24,000	17,920	30,830	987	121			28,310	4'-2 1/2"	16'-3"
	VRC-0565A-1018N-JB	11,705	796	(8) 6.7	104,000			24,130	17,920	30,960	987	121			28,440	4'-2 1/2"	16'-3"
10' x 18' - BALTIDRIVE®	VRC-0327A-1018N-HA	6,762	460	(3) 5	87,700	7.5	760	17,990	10,440	24,330	513	63	10	456	21,820	2'-4 1/4"	14'-5"
	VRC-0360A-1018N-JA	7,453	507	(3) 7.5	100,400			18,090	10,440	24,430	513	63			21,930	2'-4 1/4"	14'-5"
	VRC-0386A-1018N-KA	7,982	543	(3) 10	110,500			18,130	10,440	24,470	513	63			21,960	2'-4 1/4"	14'-5"
	VRC-0362A-1018N-HA	7,497	510	(3) 5	87,200			19,970	12,420	26,430	637	78			23,920	2'-11 3/4"	15'-0"
	VRC-0399A-1018N-JA	8,232	560	(3) 7.5	95,700			20,070	12,420	26,530	637	78			24,030	2'-11 3/4"	15'-0"
	VRC-0427A-1018N-KA	8,820	600	(3) 10	105,300			20,110	12,420	26,570	637	78			24,060	2'-11 3/4"	15'-0"
	VRC-0347A-1018N-GA	7,174	488	(3) 3	60,300			23,270	15,730	29,940	848	104			27,440	3'-7"	15'-8"
	VRC-0432A-1018N-JA	8,952	609	(3) 7.5	81,800			23,380	15,730	30,050	848	104			27,550	3'-7"	15'-8"
	VRC-0464A-1018N-KA	9,599	653	(3) 10	90,000			23,420	15,730	30,090	848	104			27,580	3'-7"	15'-8"
	VRC-0502A-1018N-KA	10,393	707	(3) 10	94,200			25,610	17,920	32,420	987	121			29,910	4'-2 1/2"	16'-3"
	VRC-0553A-1018N-LA	11,451	779	(3) 15	107,900			25,880	17,920	32,690	987	121			30,170	4'-2 1/2"	16'-3"

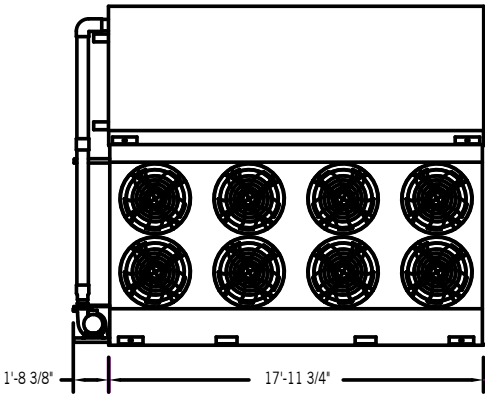
Vertex™ Evaporative Condenser Engineering Data



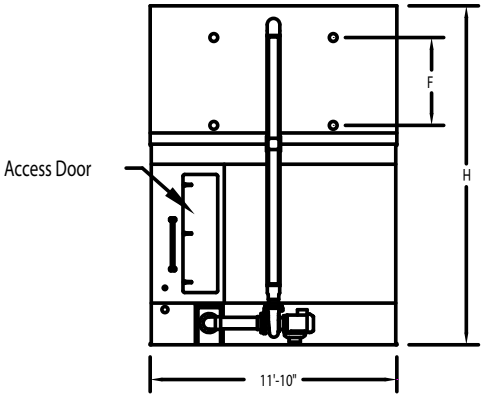
Face A: VRC 12' x 12' and 12' x 18' EC Fan System Units



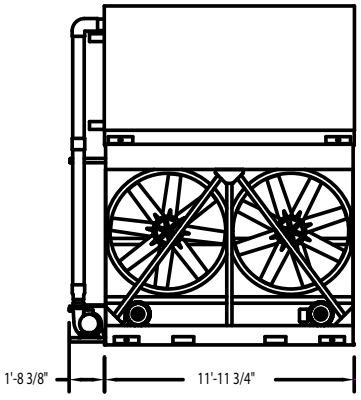
Face D: VRC 12' x 12' EC Fan System Units



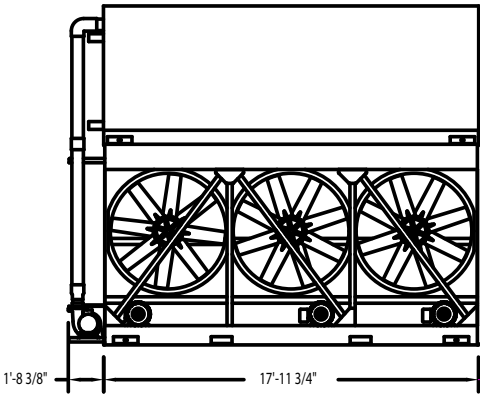
Face D: VRC 12' x 18' EC Fan System Units



Face A: VRC 12' x 12' and 12' x 18' Baltidrive® Power Train Units



Face D: VRC 12' x 12' Units Baltidrive® Power Train Units



Face D: VRC 12' x 18' Baltidrive® Power Train Units

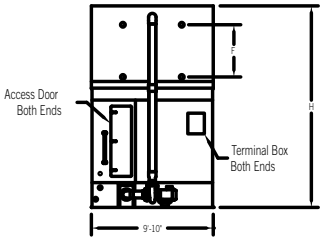
NOTES:

1. Model number denotes nominal tons using R-717 tons are at a 96.3°F condensing temperature, a 20°F suction temperature, and a 78°F entering wet-bulb temperature.
2. R-22 tons are at a 105°F condensing temperature, a 40°F suction temperature, and a 78°F entering wet-bulb temperature.
3. Unless otherwise noted, the coil section is the heaviest section.
4. Operating weight is for the unit with the water level at the overflow level and with the coil charged with R-717.
5. The R-22 operating charge is 1.93 times the R-717 charge; R-134a is 1.98 times.
6. Drain size is based on a bottom connection.
7. Coil inlet and outlet connections are 4" beveled for welding.

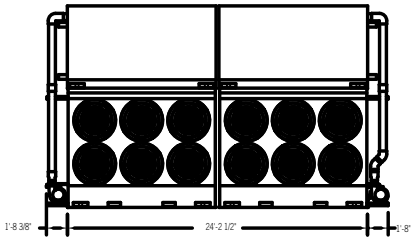
Do not use for construction. Refer to factory certified dimensions. This catalog includes data current at the time of publication, which should be reconfirmed at the time of purchase.

Nom. Box Size	Model Number[1]	Base Heat Rejection (MBH)	R-22 Tons[2]	Fan Motor (HP)	Airflow Rate (CFM)	Pump Motor (HP)	Spray Flow Rate (GPM)	Approximate Weight (lbs)			R-717 Operating Charge[5] (lbs)	Internal Coil Volume (ft³)	Remote Sump			F	H
								Ship Weight	Heaviest Section[3]	Oper. Weight[4]			Drain Size[6] (in)	Volume Req. (gal)	Approx. Oper. Weight (lbs)		
12' x 12' - EC Fan System	VRC-0281A-1212N-GB	5,819	396	(6) 2.6	72,300	5	610	13,840	8,810	18,600	424	52	8	430	17,430	2'-4 1/4"	14'-5"
	VRC-0314A-1212N-HB	6,499	442	(6) 4.3	85,200			13,900	8,810	18,660	424	52			17,490	2'-4 1/4"	14'-5"
	VRC-0348A-1212N-JB	7,184	489	(6) 6.7	98,900			14,000	8,810	18,760	424	52			17,590	2'-4 1/4"	14'-5"
	VRC-0311A-1212N-GB	6,430	437	(6) 2.6	69,600			15,490	10,460	20,350	525	64			19,180	2'-11 3/4"	15'-0"
	VRC-0347A-1212N-HB	7,181	488	(6) 4.3	82,100			15,550	10,460	20,410	525	64			19,240	2'-11 3/4"	15'-0"
	VRC-0383A-1212N-JB	7,938	540	(6) 6.7	95,300			15,650	10,460	20,510	525	64			19,340	2'-11 3/4"	15'-0"
	VRC-0338A-1212N-GB	7,001	476	(6) 2.6	65,500			18,070	13,040	23,090	683	84			21,910	3'-7"	15'-8"
	VRC-0378A-1212N-HB	7,819	532	(6) 4.3	77,200			18,130	13,040	23,150	683	84			21,970	3'-7"	15'-8"
	VRC-0418A-1212N-JB	8,643	588	(6) 6.7	89,700			18,230	13,040	23,250	683	84			22,070	3'-7"	15'-8"
	VRC-0363A-1212N-GB	7,507	511	(6) 2.6	60,900			19,870	14,840	25,010	794	97			23,830	4'-2 1/2"	16'-3"
	VRC-0405A-1212N-HB	8,384	570	(6) 4.3	71,800			19,930	14,840	25,070	794	97			23,890	4'-2 1/2"	16'-3"
	VRC-0448A-1212N-JB	9,268	630	(6) 6.7	83,400			20,030	14,840	25,170	794	97			23,990	4'-2 1/2"	16'-3"
12' x 12' - BALTIDRIVE®	VRC-0214A-1212N-GA	4,439	302	(2) 3	50,400	5	610	14,620	8,810	19,360	424	52	8	430	18,210	2'-4 1/4"	14'-5"
	VRC-0243A-1212N-HA	5,027	342	(2) 5	59,800			14,630	8,810	19,370	424	52			18,230	2'-4 1/4"	14'-5"
	VRC-0268A-1212N-JA	5,542	377	(2) 7.5	68,400			14,700	8,810	19,440	424	52			18,290	2'-4 1/4"	14'-5"
	VRC-0287A-1212N-KA	5,939	404	(2) 10	75,300			14,720	8,810	19,460	424	52			18,310	2'-4 1/4"	14'-5"
	VRC-0271A-1212N-HA	5,601	381	(2) 5	59,800			16,280	10,460	21,120	525	64			19,980	2'-11 3/4"	15'-0"
	VRC-0298A-1212N-JA	6,174	420	(2) 7.5	68,400			16,350	10,460	21,190	525	64			20,040	2'-11 3/4"	15'-0"
	VRC-0320A-1212N-KA	6,630	451	(2) 10	73,100			16,370	10,460	21,210	525	64			20,060	2'-11 3/4"	15'-0"
	VRC-0349A-1212N-KA	7,218	491	(2) 10	71,200			18,950	13,040	23,950	683	84			22,790	3'-7"	15'-8"
	VRC-0384A-1212N-LA	7,953	541	(2) 15	81,500			19,130	13,040	24,130	683	84			22,970	3'-7"	15'-8"
	VRC-0412A-1212N-MA	8,526	580	(2) 20	89,700			19,180	13,040	24,180	683	84			23,020	3'-7"	15'-8"
	VRC-0381A-1212N-KA	7,894	537	(2) 10	67,300			20,750	14,840	25,870	794	97			24,710	4'-2 1/2"	16'-3"
	VRC-0415A-1212N-LA	8,600	585	(2) 15	77,100			20,930	14,840	26,050	794	97			24,890	4'-2 1/2"	16'-3"
	VRC-0445A-1212N-MA	9,202	626	(2) 20	85,200			20,980	14,840	26,100	794	97			24,940	4'-2 1/2"	16'-3"
	VRC-0469A-1212N-NA	9,717	661	(2) 25	91,800			21,290	14,840	26,410	794	97			25,250	4'-2 1/2"	16'-3"
12' x 18' - EC Fan System	VRC-0417A-1218N-GB	8,638	588	(8) 2.6	101,700	7.5	920	19,080	12,530	26,160	632	77	10	619	24,370	2'-4 1/4"	14'-5"
	VRC-0467A-1218N-HB	9,652	657	(8) 4.3	119,900			19,170	12,530	26,250	632	77			24,460	2'-4 1/4"	14'-5"
	VRC-0516A-1218N-JB	10,668	726	(8) 6.7	139,200			19,300	12,530	26,380	632	77			24,590	2'-4 1/4"	14'-5"
	VRC-0457A-1218N-GB	9,445	642	(8) 2.6	97,500			21,500	14,950	28,730	785	96			26,940	2'-11 3/4"	15'-0"
	VRC-0510A-1218N-HB	10,554	718	(8) 4.3	115,000			21,590	14,950	28,820	785	96			27,030	2'-11 3/4"	15'-0"
	VRC-0564A-1218N-JB	11,665	794	(8) 6.7	133,500			21,720	14,950	28,950	785	96			27,160	2'-11 3/4"	15'-0"
	VRC-0497A-1218N-GB	10,286	700	(8) 2.6	92,200			25,250	18,700	32,720	1,024	125			30,940	3'-7"	15'-8"
	VRC-0555A-1218N-HB	11,494	782	(8) 4.3	108,800			25,340	18,700	32,810	1,024	125			31,030	3'-7"	15'-8"
	VRC-0614A-1218N-JB	12,704	864	(8) 6.7	126,200			25,470	18,700	32,940	1,024	125			31,160	3'-7"	15'-8"
	VRC-0536A-1218N-GB	11,093	755	(8) 2.6	84,600			27,890	21,340	35,530	1,192	146			33,740	4'-2 1/2"	16'-3"
	VRC-0599A-1218N-HB	12,396	843	(8) 4.3	99,800			27,980	21,340	35,620	1,192	146			33,830	4'-2 1/2"	16'-3"
	VRC-0662A-1218N-JB	13,701	932	(8) 6.7	115,700			28,110	21,340	35,750	1,192	146			33,960	4'-2 1/2"	16'-3"
12' x 18' - BALTIDRIVE®	VRC-0374A-1218N-HA	7,732	526	(3) 5	89,700	7.5	920	20,520	12,530	27,520	632	77	10	619	25,810	2'-4 1/4"	14'-5"
	VRC-0413A-1218N-JA	8,541	581	(3) 7.5	102,700			20,620	12,530	27,620	632	77			25,920	2'-4 1/4"	14'-5"
	VRC-0442A-1218N-KA	9,158	623	(3) 10	113,000			20,660	12,530	27,660	632	77			25,950	2'-4 1/4"	14'-5"
	VRC-0414A-1218N-HA	8,555	582	(3) 5	87,000			22,940	14,950	30,090	785	96			28,380	2'-11 3/4"	15'-0"
	VRC-0456A-1218N-JA	9,437	642	(3) 7.5	99,600			23,040	14,950	30,190	785	96			28,490	2'-11 3/4"	15'-0"
	VRC-0489A-1218N-KA	10,114	688	(3) 10	109,700			23,080	14,950	30,230	785	96			28,520	2'-11 3/4"	15'-0"
	VRC-0533A-1218N-KA	11,025	750	(3) 10	106,800			26,830	18,700	34,220	1,024	125			32,520	3'-7"	15'-8"
	VRC-0587A-1218N-LA	12,157	827	(3) 15	122,200			27,100	18,700	34,490	1,024	125			32,780	3'-7"	15'-8"
	VRC-0630A-1218N-MA	13,039	887	(3) 20	134,500			27,160	18,700	34,550	1,024	125			32,860	3'-7"	15'-8"
	VRC-0636A-1218N-LA	13,157	895	(3) 15	115,000			29,740	21,340	37,300	1,192	146			35,580	4'-2 1/2"	16'-3"
	VRC-0680A-1218N-MA	14,068	957	(3) 20	126,100			29,800	21,340	37,360	1,192	146			35,660	4'-2 1/2"	16'-3"
	VRC-0717A-1218N-NA	14,847	1010	(3) 25	135,800			30,280	21,340	37,840	1,192	146			36,120	4'-2 1/2"	16'-3"

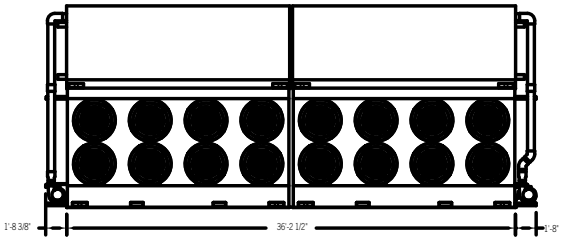
Vertex™ Evaporative Condenser Engineering Data



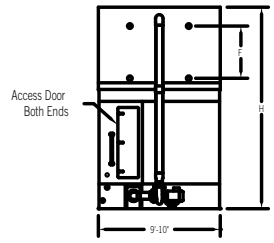
Face A: VRC 10' x 24' and 10' x 36'
EC Fan System Units



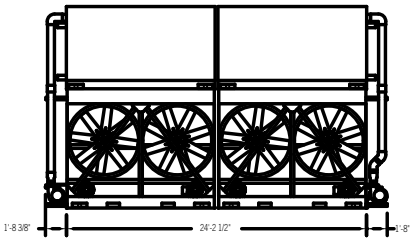
Face D: VRC 10' x 24'
EC Fan System Units



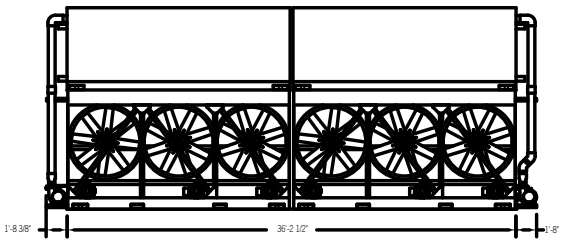
Face D: VRC 10' x 36'
EC Fan System Units



Face A: VRC 10' x 24' and 10' x 36'
Baltidrive® Power Train Units



Face D: VRC 10' x 24'
Baltidrive® Power Train Units



Face D: VRC 10' x 36' Units
Baltidrive® Power Train Units

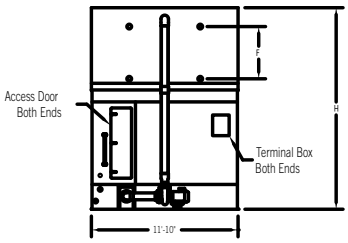
NOTES:

1. Model number denotes nominal tons using R-717 tons are at a 96.3°F condensing temperature, a 20°F suction temperature, and a 78°F entering wet-bulb temperature.
2. R-22 tons are at a 105°F condensing temperature, a 40°F suction temperature, and a 78°F entering wet-bulb temperature.
3. Unless otherwise noted, the coil section is the heaviest section.
4. Operating weight is for the unit with the water level at the overflow level and with the coil charged with R-717.
5. The R-22 operating charge is 1.93 times the R-717 charge; R-134a is 1.98 times.
6. Drain size is based on a bottom connection.
7. Coil inlet and outlet connections are 4" beveled for welding.

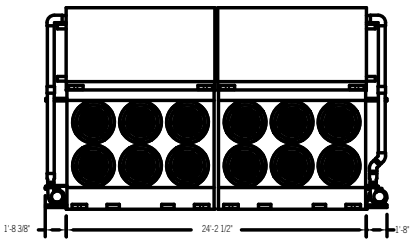
Do not use for construction. Refer to factory certified dimensions. This catalog includes data current at the time of publication, which should be reconfirmed at the time of purchase.

Nom. Box Size	Model Number[1]	Base Heat Rejection (MBH)	R-22 Tons[2]	Fan Motor (HP)	Airflow Rate (CFM)	Pump Motor (HP)	Spray Flow Rate (GPM)	Approximate Weight (lbs)			R-717 Operating Charge[5] (lbs)	Internal Coil Volume (ft^3)	Remote Sump			F	H
								Ship Weight	Heaviest Section[3]	Oper. Weight[4]			Drain Size[6] (in)	Volume Req. (gal)	Approx. Oper. Weight (lbs)		
10' x 24' - EC Fan System	VRC-0482A-1024N-GB	9,972	678	(12) 2.6	141,400	(2)5	500	23,980	7,350	32,660	689	84	(2)8	627	17,480	2'-4 1/4"	14'-5"
	VRC-0538A-1024N-HB	11,137	758	(12) 4.3	166,700			24,100	7,350	32,780	689	84			17,550	2'-4 1/4"	14'-5"
	VRC-0595A-1024N-JB	12,312	838	(12) 6.7	193,500			24,300	7,350	32,980	689	84			17,650	2'-4 1/4"	14'-5"
	VRC-0539A-1024N-GB	11,145	758	(12) 2.6	128,100			26,680	8,700	35,520	854	104			18,990	2'-11 3/4"	15'-0"
	VRC-0601A-1024N-HB	12,447	847	(12) 4.3	150,900			26,800	8,700	35,640	854	104			19,060	2'-11 3/4"	15'-0"
	VRC-0665A-1024N-JB	13,759	936	(12) 6.7	175,200			27,000	8,700	35,840	854	104			19,160	2'-11 3/4"	15'-0"
	VRC-0577A-1024N-GB	11,947	813	(12) 2.6	106,200			31,210	10,970	40,330	1132	138			21,540	3'-7"	15'-8"
	VRC-0646A-1024N-HB	13,342	908	(12) 4.3	125,100			31,330	10,970	40,450	1132	138			21,610	3'-7"	15'-8"
	VRC-0713A-1024N-JB	14,750	1003	(12) 6.7	145,200			31,530	10,970	40,650	1132	138			21,710	3'-7"	15'-8"
	VRC-0620A-1024N-GB	12,838	873	(12) 2.6	109,500			34,210	12,470	43,520	1316	161			23,220	4'-2 1/2"	16'-3"
	VRC-0693A-1024N-HB	14,338	975	(12) 4.3	129,100			34,330	12,470	43,640	1316	161			23,290	4'-2 1/2"	16'-3"
	VRC-0766A-1024N-JB	15,851	1078	(12) 6.7	149,800			34,530	12,470	43,840	1316	161			23,390	4'-2 1/2"	16'-3"
10' x 24' - BALTIDRIVE®	VRC-0470A-1024N-JA	9,732	662	(4) 7.5	137,000	(2)5	500	25,820	7,350	34,460	689	84	(2)8	627	18,400	3'-7"	14'-5"
	VRC-0484A-1024N-HA	9,996	680	(4) 5	110,800			28,380	8,700	37,180	854	104			19,850	4'-2 1/2"	15'-0"
	VRC-0533A-1024N-JA	11,026	750	(4) 7.5	126,800			28,520	8,700	37,320	854	104			19,910	4'-2 1/2"	15'-0"
	VRC-0571A-1024N-KA	11,818	804	(4) 10	139,600			28,560	8,700	37,360	854	104			19,930	2'-4 1/4"	15'-0"
	VRC-0609A-1024N-KA	12,612	858	(4) 10	120,000			33,090	10,970	42,170	1132	138			22,480	2'-4 1/4"	15'-8"
	VRC-0672A-1024N-LA	13,906	946	(4) 15	137,200			33,450	10,970	42,530	1132	138			22,660	2'-11 3/4"	15'-8"
	VRC-0615A-1024N-JA	12,730	866	(4) 7.5	114,200			36,050	12,470	45,320	1316	161			24,140	2'-11 3/4"	16'-3"
	VRC-0659A-1024N-KA	13,642	928	(4) 10	125,600			36,090	12,470	45,360	1316	161			24,160	2'-11 3/4"	16'-3"
	VRC-0727A-1024N-LA	15,052	1024	(4) 15	143,800			36,450	12,470	45,720	1316	161			24,340	3'-7"	16'-3"
10' x 36' - EC Fan System	VRC-0713A-1036N-GB	14,768	1005	(16) 2.6	194,300	(2)7.5	760	32,860	10,440	45,570	1026	125	(2)10	913	24,580	2'-4 1/4"	14'-5"
	VRC-0798A-1036N-HB	16,509	1123	(16) 4.3	229,200			33,040	10,440	45,750	1026	125			24,670	2'-4 1/4"	14'-5"
	VRC-0882A-1036N-JB	18,254	1242	(16) 6.7	266,000			33,300	10,440	46,010	1026	125			24,800	2'-4 1/4"	14'-5"
	VRC-0779A-1036N-GB	16,120	1097	(16) 2.6	180,500			36,820	12,420	49,780	1275	156			26,810	2'-11 3/4"	15'-0"
	VRC-0871A-1036N-HB	18,020	1226	(16) 4.3	212,900			37,000	12,420	49,960	1275	156			26,900	2'-11 3/4"	15'-0"
	VRC-0963A-1036N-JB	19,925	1355	(16) 6.7	247,100			37,260	12,420	50,220	1275	156			27,030	2'-11 3/4"	15'-0"
	VRC-0851A-1036N-GB	17,623	1199	(16) 2.6	148,300			43,430	15,730	56,810	1696	207			30,540	3'-7"	15'-8"
	VRC-0952A-1036N-HB	19,699	1340	(16) 4.3	175,000			43,610	15,730	56,990	1696	207			30,630	3'-7"	15'-8"
	VRC-1052A-1036N-JB	21,779	1482	(16) 6.7	203,000			43,870	15,730	57,250	1696	207			30,760	3'-7"	15'-8"
	VRC-0915A-1036N-GB	18,940	1288	(16) 2.6	151,900			47,820	17,920	61,480	1974	241			33,010	4'-2 1/2"	16'-3"
	VRC-1023A-1036N-HB	21,173	1440	(16) 4.3	179,100			48,000	17,920	61,660	1974	241			33,100	4'-2 1/2"	16'-3"
	VRC-1131A-1036N-JB	23,411	1593	(16) 6.7	207,900			48,260	17,920	61,920	1974	241			33,230	4'-2 1/2"	16'-3"
10' x 36' - BALTIDRIVE®	VRC-0653A-1036N-HA	13,524	920	(6) 5	175,400	(2)7.5	760	35,980	10,440	48,650	1026	125	(2)10	913	26,130	2'-11 3/4"	14'-5"
	VRC-0771A-1036N-KA	15,964	1086	(6) 10	221,000			36,260	10,440	48,930	1026	125			26,270	3'-7"	14'-5"
	VRC-0724A-1036N-HA	14,994	1020	(6) 5	174,400			39,940	12,420	52,860	1275	156			28,360	3'-7"	15'-0"
	VRC-0796A-1036N-JA	16,464	1120	(6) 7.5	191,400			40,140	12,420	53,060	1275	156			28,470	3'-7"	15'-0"
	VRC-0853A-1036N-KA	17,640	1200	(6) 10	210,600			40,220	12,420	53,140	1275	156			28,500	4'-2 1/2"	15'-0"
	VRC-0865A-1036N-JA	17,904	1218	(6) 7.5	163,600			46,750	15,730	60,090	1696	207			32,200	4'-2 1/2"	15'-8"
	VRC-0927A-1036N-KA	19,198	1306	(6) 10	180,000			46,830	15,730	60,170	1696	207			32,230	4'-2 1/2"	15'-8"
	VRC-1004A-1036N-KA	20,786	1414	(6) 10	188,400			51,220	17,920	64,840	1974	241			34,700	4'-2 1/2"	16'-3"
	VRC-1106A-1036N-LA	22,902	1558	(6) 15	215,800			51,760	17,920	65,380	1974	241			34,960	2'-4 1/4"	16'-3"

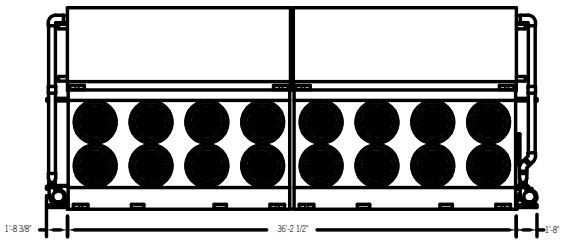
Vertex™ Evaporative Condenser Engineering Data



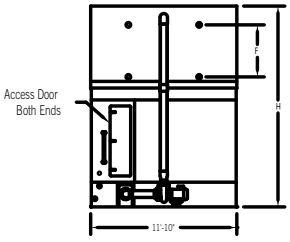
Face A: VRC 12' x 24' and 12' x 36'
EC Fan System Units



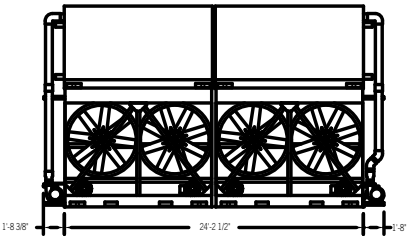
Face D: VRC 12' x 24'
EC Fan System Units



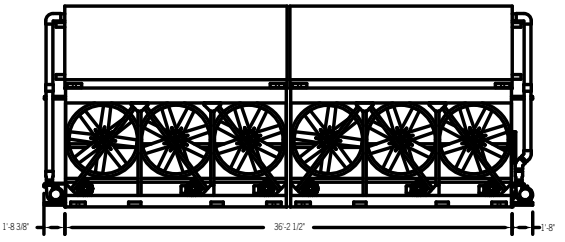
Face D: VRC 12' x 36'
EC Fan System Units



Face A: VRC 12' x 24' and 12' x 36'
Baltidrive® Power Train Units



Face D: VRC 12' x 24'
Baltidrive® Power Train Units



Face D: VRC 12' x 36' Units
Baltidrive® Power Train Units

NOTES:

1. Model number denotes nominal tons using R-717 tons are at a 96.3°F condensing temperature, a 20°F suction temperature, and a 78°F entering wet-bulb temperature.
2. R-22 tons are at a 105°F condensing temperature, a 40°F suction temperature, and a 78°F entering wet-bulb temperature.
3. Unless otherwise noted, the coil section is the heaviest section.
4. Operating weight is for the unit with the water level at the overflow level and with the coil charged with R-717.
5. The R-22 operating charge is 1.93 times the R-717 charge; R-134a is 1.98 times.
6. Drain size is based on a bottom connection.
7. Coil inlet and outlet connections are 4" beveled for welding.

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.

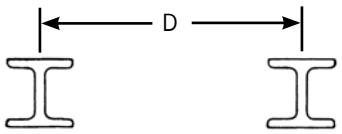
Nom. Box Size	Model Number[1]	Base Heat Rejection (MBH)	R-22 Tons[2]	Fan Motor (HP)	Airflow Rate (CFM)	Pump Motor (HP)	Spray Flow Rate (GPM)	Approximate Weight (lbs)			R-717 Operating Charge[5] (lbs)	Internal Coil Volume (ft^3)	Remote Sump			F	H
								Ship Weight	Heaviest Section[3]	Oper. Weight[4]			Drain Size[6] (in)	Volume Req. (gal)	Approx. Oper. Weight (lbs)		
12' x 24' - EC Fan System	VRC-0562A-1224N-GB	11,638	792	(12) 2.6	144,600	(2) 5	610	27,670	8,810	37,200	848	104	(2) 8	860	21,430	2'-4 1/4"	14'-5"
	VRC-0628A-1224N-HB	12,998	884	(12) 4.3	170,400			27,790	8,810	37,320	848	104			21,490	2'-4 1/4"	14'-5"
	VRC-0695A-1224N-JB	14,369	977	(12) 6.7	197,800			27,990	8,810	37,520	848	104			21,590	2'-4 1/4"	14'-5"
	VRC-0621A-1224N-GB	12,859	875	(12) 2.6	139,200			30,970	10,460	40,700	1050	128			23,280	2'-11 3/4"	15'-0"
	VRC-0694A-1224N-HB	14,361	977	(12) 4.3	164,100			31,090	10,460	40,820	1050	128			23,340	2'-11 3/4"	15'-0"
	VRC-0767A-1224N-JB	15,876	1080	(12) 6.7	190,500			31,290	10,460	41,020	1050	128			23,440	2'-11 3/4"	15'-0"
	VRC-0676A-1224N-GB	14,002	953	(12) 2.6	131,000			36,130	13,040	46,170	1367	167			26,180	3'-7"	15'-8"
	VRC-0755A-1224N-HB	15,637	1064	(12) 4.3	154,400			36,250	13,040	46,290	1367	167			26,240	3'-7"	15'-8"
	VRC-0835A-1224N-JB	17,287	1176	(12) 6.7	179,300			36,450	13,040	46,490	1367	167			26,340	3'-7"	15'-8"
	VRC-0725A-1224N-GB	15,014	1021	(12) 2.6	121,800			39,740	14,840	50,010	1589	194			28,210	4'-2 1/2"	16'-3"
	VRC-0810A-1224N-HB	16,768	1141	(12) 4.3	143,600			39,860	14,840	50,130	1589	194			28,270	4'-2 1/2"	16'-3"
	VRC-0895A-1224N-JB	18,536	1261	(12) 6.7	166,700			40,060	14,840	50,330	1589	194			28,370	4'-2 1/2"	16'-3"
12' x 24' - BALTIDRIVE®	VRC-0429A-1224N-GA	8,878	604	(4) 3	100,800	(2) 5	610	29,230	8,810	38,720	848	104	(2) 8	860	22,210	4'-2 1/2"	14'-5"
	VRC-0486A-1224N-HA	10,054	684	(4) 5	119,500			29,250	8,810	38,740	848	104			22,230	4'-2 1/2"	14'-5"
	VRC-0535A-1224N-JA	11,084	754	(4) 7.5	136,800			29,390	8,810	38,880	848	104			22,290	4'-2 1/2"	14'-5"
	VRC-0574A-1224N-KA	11,878	808	(4) 10	150,600			29,430	8,810	38,920	848	104			22,310	4'-2 1/2"	14'-5"
	VRC-0541A-1224N-HA	11,202	762	(4) 5	119,600			32,550	10,460	42,240	1050	128			24,080	2'-4 1/4"	15'-0"
	VRC-0597A-1224N-JA	12,348	840	(4) 7.5	136,800			32,690	10,460	42,380	1050	128			24,140	2'-4 1/4"	15'-0"
	VRC-0641A-1224N-KA	13,260	902	(4) 10	146,200			32,730	10,460	42,420	1050	128			24,160	2'-4 1/4"	15'-0"
	VRC-0697A-1224N-KA	14,436	982	(4) 10	142,400			37,890	13,040	47,890	1367	167			27,060	2'-4 1/4"	15'-8"
	VRC-0768A-1224N-LA	15,906	1082	(4) 15	163,000			38,250	13,040	48,250	1367	167			27,240	2'-11 3/4"	15'-8"
	VRC-0824A-1224N-MA	17,052	1160	(4) 20	179,400			38,350	13,040	48,350	1367	167			27,290	2'-11 3/4"	15'-8"
	VRC-0763A-1224N-KA	15,788	1074	(4) 10	134,600			41,500	14,840	51,730	1589	194			29,090	3'-7"	16'-3"
	VRC-0831A-1224N-LA	17,200	1170	(4) 15	154,100			41,860	14,840	52,090	1589	194			29,270	3'-7"	16'-3"
	VRC-0889A-1224N-MA	18,404	1252	(4) 20	170,400			41,960	14,840	52,190	1589	194			29,320	3'-7"	16'-3"
	VRC-0939A-1224N-NA	19,434	1322	(4) 25	183,600			42,580	14,840	52,810	1589	194			29,630	4'-2 1/2"	16'-3"
12' x 36' - EC Fan System	VRC-0835A-1236N-GB	17,276	1175	(16) 2.6	203,300	(2) 7.5	920	38,150	12,530	52,320	1263	154	(2) 10	1,237	30,160	2'-4 1/4"	14'-5"
	VRC-0934A-1236N-HB	19,305	1313	(16) 4.3	239,800			38,330	12,530	52,500	1263	154			30,250	2'-4 1/4"	14'-5"
	VRC-1032A-1236N-JB	21,336	1451	(16) 6.7	278,300			38,590	12,530	52,760	1263	154			30,380	2'-4 1/4"	14'-5"
	VRC-0914A-1236N-GB	18,889	1285	(16) 2.6	195,000			42,990	14,950	57,460	1570	192			32,880	2'-11 3/4"	15'-0"
	VRC-1020A-1236N-HB	21,108	1436	(16) 4.3	230,000			43,170	14,950	57,640	1570	192			32,970	2'-11 3/4"	15'-0"
	VRC-1127A-1236N-JB	23,329	1587	(16) 6.7	266,900			43,430	14,950	57,900	1570	192			33,100	2'-11 3/4"	15'-0"
	VRC-0994A-1236N-GB	20,572	1399	(16) 2.6	184,400			50,490	18,700	65,440	2049	250			37,110	3'-7"	15'-8"
	VRC-1111A-1236N-HB	22,989	1564	(16) 4.3	217,500			50,670	18,700	65,620	2049	250			37,200	3'-7"	15'-8"
	VRC-1227A-1236N-JB	25,408	1728	(16) 6.7	252,400			50,930	18,700	65,880	2049	250			37,330	3'-7"	15'-8"
	VRC-1072A-1236N-GB	22,187	1509	(16) 2.6	169,100			55,770	21,340	71,060	2384	291			40,090	4'-2 1/2"	16'-3"
	VRC-1198A-1236N-HB	24,793	1687	(16) 4.3	199,500			55,950	21,340	71,240	2384	291			40,180	4'-2 1/2"	16'-3"
	VRC-1324A-1236N-JB	27,402	1864	(16) 6.7	231,400			56,210	21,340	71,500	2384	291			40,310	4'-2 1/2"	16'-3"
12' x 36' - BALTIDRIVE®	VRC-0661A-1236N-GA	13,675	930	(6) 3	151,400	(2) 7.5	920	41,010	12,530	55,010	1263	154	(2) 10	1237	31,600	2'-4 1/4"	14'-5"
	VRC-0747A-1236N-HA	15,464	1052	(6) 5	179,400			41,030	12,530	55,030	1263	154			31,600	2'-4 1/4"	14'-5"
	VRC-0825A-1236N-JA	17,082	1162	(6) 7.5	205,300			41,230	12,530	55,230	1263	154			31,710	2'-4 1/4"	14'-5"
	VRC-0885A-1236N-KA	18,316	1246	(6) 10	226,000			41,310	12,530	55,310	1263	154			31,740	2'-11 3/4"	14'-5"
	VRC-0912A-1236N-JA	18,874	1284	(6) 7.5	199,200			46,070	14,950	60,380	1570	192			34,430	2'-11 3/4"	15'-0"
	VRC-0977A-1236N-KA	20,228	1376	(6) 10	219,300			46,150	14,950	60,460	1570	192			34,460	2'-11 3/4"	15'-0"
	VRC-1065A-1236N-KA	22,050	1500	(6) 10	213,600			53,650	18,700	68,440	2049	250			38,690	3'-7"	15'-8"
	VRC-1175A-1236N-LA	24,314	1654	(6) 15	244,400			54,190	18,700	68,980	2049	250			38,950	3'-7"	15'-8"
	VRC-1260A-1236N-MA	26,078	1774	(6) 20	269,000			54,310	18,700	69,100	2049	250			39,030	3'-7"	15'-8"
	VRC-1271A-1236N-LA	26,314	1790	(6) 15	230,000			59,470	21,340	74,590	2384	291			41,930	4'-2 1/2"	16'-3"
	VRC-1359A-1236N-MA	28,136	1914	(6) 20	252,200			59,590	21,340	74,710	2384	291			42,010	4'-2 1/2"	16'-3"
	VRC-1434A-1236N-NA	29,694	2020	(6) 25	271,600			60,550	21,340	75,670	2384	291			42,470	4'-2 1/2"	16'-3"

Vertex™ Evaporative Condenser Structural Support

The recommended support arrangement for Vertex Evaporative Condensers consists of parallel structural members running the full length of the unit. In addition to providing adequate support, the members also serve to raise the unit above any solid foundation which might restrict air movement or prevent access to the unit. Refer to the BAC unit certified print for bolt hole location.

Center line distances between bolt holes are tabulated in the table below.

Model Number	D
VRC-x-1012-x	9'-7 1/2"
VRC-x-1018-x	9'-7 1/2"
VRC-x-1212-x	11'-7 1/4"
VRC-x-1218-x	11'-7 1/4"
VRC-x-1024-x	9'-7 1/2"
VRC-x-1036-x	9'-7 1/2"
VRC-x-1224-x	11'-7 1/4"
VRC-x-1236-x	11'-7 1/4"



NOTES:

1. Support members and anchor bolts shall be designed, furnished, and installed by others.
2. Design of support members and anchor bolts shall be in accordance with the strength and serviceability requirements of the applicable building code and project specifications.
3. Support members shall be level at the top.
4. Refer to the certified unit support drawing for loading and additional support requirements.
5. The length of the support members shall be at least equal to the length of the basin. Refer to Engineering Data for basin dimensions.
6. If vibration isolation (provided by others) is used, the isolators should be located under a structural base that complies with one of the recommended support arrangements. Contact your local BAC Representative for all other isolator configurations.