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The HXV Hybrid Cooler brings you the best of both evaporative and dry cooling in a water saving and energy-efficient unit. The HXV maintains peak system performance for a variety of applications where water is scarce, water costs are high, uptime is critical, or plume is a concern.
Saves Water and Energy

Large Range of Capacities
Up to 1,260 USGPM in a Single Unit

Water Savings
Energy Efficiency
Operational and Layout Flexibility
Reliable Year-Round Operation
Reduced Maintenance Costs

Reliable Year-Round Operation
Water Savings

HXV HYBRID COOLER PRODUCT CATALOG 3
HXV Benefits

70% WATER SAVINGS* | 100% PLUME ABATEMENT*
60% MORE ENERGY EFFICIENT* | 25% MAINTENANCE SAVINGS*

› Water Savings
  ▶ Up to 70% water savings due to a high dry switch point
  ▶ Year-round sensible cooling with the dry coil to maximize water savings
  ▶ 25% water savings even on a design day

› Energy Efficiency
  ▶ Up to 60% more energy efficient compared to air-cooled systems
  ▶ Reduce scale build up and ensure peak system energy efficiency with Combined Flow Technology
  ▶ Further reduce fouling, maintain system efficiency with the closed loop cooling process

› Operational and Layout Flexibility
  ▶ Balance water and energy savings to meet your specific needs
  ▶ Easily switch between energy saver mode, adiabatic mode, and water saver mode
  ▶ Quiet operation with a low sound fan for sound sensitive locations
  ▶ A compact footprint with single side air inlet and a modular design
  ▶ Achieve a higher dry switch point at a lower weight than competitors’ hybrid products

*Note: Water savings and maintenance savings are compared to traditional closed circuit cooling towers. Energy savings is compared to air-cooled systems. There is no plume when operating dry.
Reliable Year-Round Operation
- Trouble-free winter operation using the dry Water Saver Mode
- No plume when operating dry and natural plume abatement with the dry coil when operating wet
- Enjoy peace-of-mind and uninterrupted operation with multiple fans and optional redundant pumps
- Increase reliability, corrosion resistance, and longevity with superior material options including EVERTOUGH® Construction and TriArmor® Corrosion Protection System that save you time and money

Reduced Maintenance Costs
- Up to 25% less maintenance than traditional closed circuit cooling towers due to dry operation and the crossflow design
- Up to 70% chemical savings due to water savings
- Easy access to the cold water basin, spray distribution system, prime surface coil, and drive system with the crossflow design, large access doors, and a standard internal walkway
- Fast inspection of the spray distribution system while the unit is in operation
- Reduced growth of algae and debris on the fill with combined inlet shields that block sunlight
**HXV**

**Design Features**

- **Dry Finned Coil**
  - $78,000 Lifetime Savings Per Cell
  - Contributes to 70% water reduction, up to 25% less maintenance, 70% chemical savings, and helps minimize plume.

- **Combined Flow Technology**
  - Combines parallel air and water paths to reduce scale build up and ensure peak system energy efficiency.

- **Prime Surface Coil**
  - Optimizes water and energy savings in combination with the dry finned coil.

- **Crossflow Design**
  - $24,000 Lifetime Savings Per Cell
  - Easier accessibility reduces maintenance and operating costs which helps ensure peak system energy efficiency.

- **Redundant Pumps (Optional)**
  - Eliminates downtime with factory-supplied valves, allowing service or replacement of one pump while the other remains in operation.

- **BALTIDRIVE® Power Train**
  - Superior corrosion-resistant materials and state-of-the-art technology that requires only periodic inspection of components and belt tensioning.

- **Factory Assembled Platforms and Ladders (Optional)**
  - $2,400 Savings Per Cell
  - Reduces the cost of installation while ensuring on-time commissioning and allows operators to safely inspect the nozzles while the unit is in operation.

- **Combined Inlet Shields**
  - $24,000 Lifetime Savings Per Cell
  - Blocks sunlight and debris to reduce accelerated growth of algae on the fill.

- **TriArmor® Corrosion Protection System (Optional)**
  - Provides a unique 3-layer barrier over G-235 galvanized steel to form a completely seamless corrosion-resistant cold water basin, ensuring long lasting durability.

- **EVERTOUGH™ Construction (Optional)**
  - Combines the most advanced corrosion-resistant materials to withstand extremely adverse water conditions. Materials include a TriArmor® Corrosion Protection System cold water basin, stainless steel submerged components, thermosetting hybrid polymer on wet/dry areas and a PVC water distribution system. This is all backed by a comprehensive 5-year warranty.
## HXV Modes of Operation

<table>
<thead>
<tr>
<th>Process Fluid</th>
<th>Energy Saver Mode</th>
<th>Adiabatic Mode</th>
<th>Water Saver Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spray Water</td>
<td>Both Coils</td>
<td>Dry Finned Coil</td>
<td>Both Coils</td>
</tr>
<tr>
<td></td>
<td>Spray water is on and precooled over the fill surface</td>
<td>Spray water is on and precooled over the fill surface, reducing the air temperature to within a few degrees of wet bulb</td>
<td>Off</td>
</tr>
<tr>
<td>Typical Ambient Condition Range</td>
<td>&gt;65°F (&gt;18°C)</td>
<td>55°F - 65°F (13°C - 18°C)</td>
<td>&lt;55°F (&lt;13°C)</td>
</tr>
<tr>
<td>Operation Period</td>
<td>Peak load and high ambient temperatures</td>
<td>Reduced load and low ambient temperatures (shoulder months)</td>
<td>Reduced load and extremely cold weather</td>
</tr>
</tbody>
</table>
| Benefits      | • Greatest energy savings  
• The dry finned coil sensibly precools the fluid prior to reaching the prime surface coil | • Balanced energy and water savings  
• Minimal water use and evaporation  
• Provides middle range capacity during shoulder months | • Greatest water savings  
• Ideal when water is scarce  
• No pump energy use  
• No chemical use |
| Water Consumption | 25% WATER SAVINGS | 75% WATER SAVINGS | 100% WATER SAVINGS |
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 panels and structural members are used as the standard material of construction. The standard construction is designed to meet IBC requirements. With proper maintenance and water treatment, G-235 galvanized steel 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 is applied in precise, humidity-controlled environment. 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.
**EVERTOUGH™ CONSTRUCTION (OPTION)**

EVERTOUGH™ Construction combines the most advanced corrosion resistant materials to provide the best value in corrosion protection for most water chemistries. EVERTOUGH™ Construction is backed by a comprehensive 5-year warranty which covers ALL components from the fan to the cold water basin, from louver to louver, including the motor (excluding the coil).

- Specifically, the following materials are used in EVERTOUGH™ Construction:
  - The cold water basin is constructed with the TriArmor® Corrosion Protection System. The basin is leak tested at the factory and warranted against leaks and corrosion for 5 years.
  - Designated steel components above the cold water 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 such as the strainer, within the basin will be constructed of stainless steel.

**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, 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**
  Steel panels and structural elements are constructed of stainless steel. Seams between panels inside the cold water basin are welded. The basin is leak tested at the factory and welded seams are provided with a 5-year leak-proof warranty.
Coil Configurations

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

STANDARD PRIME SURFACE COIL
The standard evaporative 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 is pneumatically tested at 375 psig (2,586 kPa) and is fabricated per ASME B31.5 standards to ensure the highest quality and integrity.

LOW PRESSURE DROP COIL DESIGNS
BAC’s coils are designed and are available to meet all system pressure drop requirements. A higher pressure drop across the coil requires greater system pumping energy, and therefore increases operating costs. BAC’s coil configurations drastically reduce pressure drop with minimal impact on thermal performance.

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 is pneumatically tested at 375 psig (2,586 kPa) and is fabricated per ASME B31.5 standards to ensure the highest quality and integrity.

MULTIPLE CIRCUIT COILS (OPTION)
Split coil configurations are available to allow separate process fluid loops through the same unit. Separate loops may be needed for multiple applications requiring different temperature processes or multiple types of process fluids.

NOTE: A Canadian Registration Number (CRN) is required for all pressure vessels over 15 psi entering Canada. The CRN identifies that the design of a boiler, pressure vessel, or fitting has been accepted and registered for use in Canada. CRN is available for all BAC Dual coil configurations shipped in Canada.
**Standard Dry Finned Coil**

The standard finned coil is constructed of copper with aluminum fins and further protected with a proprietary protection system. This system protects the fins and coils assuring long lasting peak performance and inhibits debris accumulation and microbial corrosion on heat transfer surfaces.

**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 7-year motor and 5-year drive warranty. Cooling tower duty motors are specially designed for the harsh environment inside hybrid unit and have permanently lubricated bearings, drastically decreasing the maintenance requirement of the motor. BAC belt drive systems are the most durable and maintenance friendly drive systems on the market, including single nut adjustment for belt tensioning to make belt tensioning simple.

**STANDARD BALTIDRIVE® POWER TRAIN**

The BALTIDRIVE® Power Train utilizes special corrosion resistant materials of construction and state-of the-art technology to ensure the ease of maintenance and reliable year-round performance. This BAC engineered drive system consists of a specially designed powerband and two cast aluminum sheaves located at minimal shaft centerline distances to maximize belt life. As compared to a gear drive system, this specially engineered belt drive system provides many advantages. The BALTIDRIVE® Power Train requires only periodic inspection of components and belt tensioning, which is simple with a single nut adjustment, and requires less down time. Only fan lubrication is required for routine maintenance. Belt drive systems also have the added advantage of being suitable for variable frequency drive (VFD) applications without requiring expensive optional accessories.
INDEPENDENT FAN OPERATION (OPTION)
Models HXV-1212N are provided with one fan motor driving two fans as standard. Models HXV-1218N are provided with two fan motors driving three fans as standard. The independent fan option consists of one fan motor and drive assembly for each fan to allow for independent operation, increasing redundancy.

BALTIGUARD™ FAN SYSTEM (OPTION)
The BALTIGUARD™ Fan System consists of two standard single-speed fan motor and drive assemblies. One drive assembly is sized for full speed and load, and the other is sized approximately 2/3 speed and consumes only 1/3 the design horsepower. This configuration allows the reserve capacity of a standby motor in the event of failure. As a minimum, approximately 70% capacity will be available from the low horsepower motor, even on a design wet-bulb day. Controls and wiring are the same as those required for a two-speed, two-winding motor. Redundant motors are available by increasing the size of the standby fan motor of the BALTIGUARD™ Fan System to the size of the main motor. This provides 100% motor redundancy and the greatest level of reliability.

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

EXTENDED LUBRICATION LINES (OPTION)
Extended lubrication lines are available for lubrication of the fan shaft bearings. Fittings are located on the exterior casing panel next to the access door.
Cold Water Basin

The spray water collects in the cold water basin which is pumped back over the prime surface coil. During operation, the HXV cold water basin helps eliminate any 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.

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 valve in the make-up water line to minimize water hammer. EWLC is recommended when more precise water level control is required and in areas that experience sub-freezing conditions.

BASIN 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 www.BaltimoreAircoil.com.

LOW AND HIGH LEVEL ALARM FLOAT SWITCHES (OPTION)

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

Although most HXV Hybrid Coolers will operate dry in the winter, basin heaters are available for freeze protection when required. Basin heaters prevent freezing of the water in the cold water basin when the unit is idle. Factory-installed electric immersion heaters, which maintain 40°F (4.4°C) water temperature, are a simple and inexpensive way of providing such protection.

### HEATER kW DATA

<table>
<thead>
<tr>
<th>Model Number</th>
<th>0°F (-17.8°C) Ambient Heaters</th>
<th>-20°F (-28.9°C) Ambient Heaters</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number of Heaters</td>
<td>kW per Heater</td>
</tr>
<tr>
<td>HXV-1212N</td>
<td>1</td>
<td>12</td>
</tr>
<tr>
<td>HXV-1218N</td>
<td>1</td>
<td>16</td>
</tr>
</tbody>
</table>

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

Water Distribution System

The HXV water distribution system is provided with BAC 360 Spray Nozzles. These nozzles are large orifice and non-clogging. The design of the HXV uses parallel air and water flow for inspection and access to the top of the coil during full operation.

**STANDARD SPRAY WATER PUMP**

The HXV comes standard with an integral spray water pump sized to distribute the recalculating 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. Parallel flow of air and spray water allow for inspection and access to the top of the coils during full operation.

**REDUNDANT PUMPS (OPTION)**

An optional secondary spray pump is available. This pump can be switched easily and maintained while the unit remains in operation. A manual valve will be supplied.
Fill

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

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

HIGH TEMPERATURE FILL (OPTION)
An optional high temperature fill material is available which increases the maximum allowable spray water temperature to 140°F (60°C). The BAC selection program determines if a fill change is required by considering all of the design requirements. The spray water temperature should not be confused with the temperature of the process fluid contained in the coil, which can go up to 180°F (82.2°C).

Sound Options
Recognition for the importance of sound reduction 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 LOW SOUND FAN
A low sound fan is standard to optimize low sound levels and maximize thermal performance.
SINGLE-SIDE AIR INTAKE

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

Air Intake Options

In a hybrid cooler, airborne debris can be entrained in the water through the unit’s air intake. The HXV 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.

COMBINED INLET SHIELDS (CIS)

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

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

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

EXTERNAL PLATFORMS AND LADDER PACKAGES (OPTION)
Every external platform is pre-assembled and pre-fitted at the factory to ensure that every component will fit and function exactly as described. The platform will ship secured in the basin and attach quickly in the field with minimum fasteners. Platforms, ladders, and safety cages can be added at the time of order or as an aftermarket item. Safety gates are available for all handrail openings. All components are designed to meet OSHA requirements.

INTERNAL SERVICE PLATFORM AND LADDER PACKAGES (OPTION)
For access to the motor and drive assemblies, an internal ladder and upper service platform with handrails is available on larger units. Safety gates are available for all handrail openings, and all components are designed to meet OSHA requirements.

INTERNAL LADDER (OPTION)
For access to the motor and drive assemblies on single air intake models, a movable internal ladder is available.

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

1. Operating weight is for the unit with the water level in the cold water basin at the overflow.

2. The actual size and number of the coil inlet and outlet connections may vary with the design flow rate. Consult unit print for dimensions.

3. Standard coil inlet and outlet connections are beveled for welding.

4. Standard make-up, drain and overflow connections are located near the bottom of the unit. Make-up connection is 1 1/2” MPT standpipe, drain is 2” FPT, and overflow is 3” FPT. Standard make-up is MPT and standard drain and overflow are FPT.

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.
<table>
<thead>
<tr>
<th>Model Number</th>
<th>Pump Motor HP</th>
<th>CFM</th>
<th>Approximate Weight (lgs)</th>
<th>Dimensions</th>
<th>Connection Size</th>
<th>Spray Pump (USGPM)</th>
<th>Internal Make-Up Water Volume (gal)</th>
<th>Internal Wet Coil Volume (gal)</th>
<th>Internal Dry Coil Volume (gal)</th>
<th>Riser Pipe Dia.</th>
<th>Heaviest Section L W H A P</th>
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<tbody>
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<td>HXV-1212N-1B23TA-x</td>
<td>7.5</td>
<td>52,570</td>
<td>28,260 17,810 9,720</td>
<td>12'-0&quot;</td>
<td>22'-2&quot; 9'-1&quot;</td>
<td>6</td>
<td>290</td>
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| NOTE: Up-to-date engineering data, free product selection software, and more can be found at www.BaltimoreAircoil.com.
The recommended support arrangement for HXV Hybrid Coolers consists of parallel structural members positioned as shown on the drawings. In addition to providing adequate support, the members also serve to raise the unit above any solid foundation to ensure access to the bottom of the tower. To support an HXV on columns or in an alternate arrangement not shown here, consult your local BAC Representative.

### NOTES:

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

### SINGLE AIR INTAKE

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