

Baltimore Aircoil Company BAC TXV 135 Cooling Tower

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Stock No	CU514
Manufacturer	Baltimore Aircoil Company
Model	TVX 135
Year of Manufacture	2003
Ave. cooling capacity	475kW
Ave. Water Flow Rate	60 - 7680 l/m
Weight (kgs)	1670 operating weight 3070
External Dimensions (WxDxH mm)	3350 x 2600 x 3200

Description

BAC TXV 135 open Cooling Tower

TXV crossflow open cooling towers use energy efficient axial fans with low sound emission and incorporate superior features in terms of ease of maintenance and hygiene. TXV towers are ideal replacement units, fitting in most enclosures.

General Description

Series 1500 Cooling Towers minimize the operating, installation, and maintenance costs associated with both new and replacement cooling tower projects. The Series 1500 delivers fully rated thermal performance over a wide range of flow and temperature requirements. Standard design features minimize the costs associated with enclosures, support requirements, electrical service, piping, and rigging.

Key Features

- Ideal replacement unit
- Single side air inlet
- Low energy consumption
- Low installed cost
- Easy maintenance
- Reliable year-round operation
- Long service life

Benefits

Ideal Replacement Unit

- Support Steel – Units are designed to mount directly on the existing support steel of many cooling towers (both cross flow and counter flow).
- Electrical Service – Fan motor configurations can be supplied to match existing wiring.
- Enclosures – Units fit in most existing enclosures with little or no modifications due to the single air inlet design.

Low Energy Consumption

- Evaporative Cooling Equipment minimizes the energy consumption of the entire system because it provides lower operating temperatures. The owner saves money while conserving natural resources and reducing environmental impact.
- TXV provides heat rejection at the lowest possible energy input and maintenance requirements via:

- High efficiency, low kW axial fans
- High efficiency BACross® Wet Deck, which provides maximum air/water contact time at low air pressure drops
- Multiple Fan Motor System: independent fan motor and drive assembly per fan, which allows extra steps of capacity control.

Low Installed Cost

- Single Side Air Inlet – Units can be placed close to solid walls, reducing the size of enclosures and allowing for more profitable use of premium space.
- Modular Design – The modular design minimizes the size and weight of the heaviest lift, allowing for the use of smaller, less costly cranes.
- Modular Design – All models mount directly on parallel I-beams and ship complete with motors and drives

factory-installed and aligned.

Easy Maintenance

- Easy Cleaning – The wet deck surface is elevated above the sloped cold water basin floor to facilitate flushing of dirt and debris from this critical area.
- Hinged Access Doors and Standard Internal Walkway – Provide easy entry to the spacious plenum for routine drive maintenance.
- Accessibility – Make-up, drain, overflow and optional basin accessories are accessible from outside the unit.

Reliable Year-Round Operation

- Belt Drive System utilizes special corrosion-resistant materials of construction and state-of-the-art technology to ensure ease of maintenance and reliable year-round performance.
- Combined Inlet Shields prevent biological growth from sunlight, act as a filter for air borne impurities and debris and eliminate water splash out.

Long Service Life

- Materials of Construction – Stainless Steel to meet the corrosion resistance, unit operating life.

Electric Water Level Control Package

The electric water level control replaces the standard mechanical make-up valve when a more precise water level control is required. This package consists of a float switch mounted in the basin and a solenoid activated valve in the make-up water line. The valve is slow closing to minimize water hammer.

Basin Heaters

Units 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 heaters, which maintain the water temperature at 4°C, are a simple and inexpensive way of providing such protection. The heater package includes the heaters, a thermostat and a low level cut out switch to protect the heaters if the water level is too low. Standard electric heaters are selected for -18°C ambient temperature.

Construction Details

1. Heavy-Duty Construction

- Stainless steel

2. Fan Drive System

- Premium quality belts
- Corrosion resistant sheaves
- Heavy-duty bearings
- Adapted fan motor for operation in saturated conditions.

3. Low kW Axial Fan

- Quiet operation
- Corrosion resistant aluminum

4 Water Distribution System

- Steel covers in easy to remove sections
- Low pump head gravity distribution basin
- Large orifice, non-clog nozzles
- Integral strainer

5. BACross® Wet Deck Surface with Integral Drift Eliminators

- Plastic material
- Impervious to rot, decay and biological attack
- Designed and manufactured by BAC

6. Combined Inlet Shields

- Corrosion Resistant
- Easily removable
- UV resistant plastic material

7. Cold Water Basin

- Sloped cold water basin for easy cleaning
- Suction strainer with anti-vortex hood
- Adjustable water make-up assembly from air inlet side
- Integral internal walkway as standard

8. Hinged Access Doors

Inward swinging door

Technical specifications

- Max air flow 20.8m³/s
- Fan motor 1 x 11kW
- Fluid inlet 150mm
- Fluid outlet 200mm
- Single Cell Capacity: 10 - 128 l/s

Photographs taken prior refurbishment. Our refurbishment service is not available on all machines.

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