Ultra-Efficient

CX34 Air-To-Water Heat Pump

2 Tons Cooling / 3 Tons heating
IPLV Cooling 26,615 BTU COP 6.75  EER 23.02
Heating 33,813 BTU COP 3.92

Energy Star 2019
Emerging Technology Award

Ultra High Efficiency Heat Pump Chiller
The CX34 obtains its ultra high efficiency using existing technologies in a new way. For example, we use a DC Inverter compressor and a DC Inverter water pump (both are variable speed) controlled together with a DC inverter fan motor to achieve the best possible balance of water flow rate, compressor speed, and energy use.

A special control algorithm looks at the temperature delta between the entering and exiting water temperatures of the chiller, and also compares the exiting water temperature to the system settings. The controller constantly adjusts the pump and compressor speeds independently of each other to maintain the needed capacity at the lowest possible power draw, often avoiding the need for a buffer tank. There is not a more efficient air source heat pump chiller made anywhere by anyone.

Dynamic Humidity Control (DHC)
The Chiltrix Psychrologix™ controller offers DHC (Dynamic Humidity Control) to maximize comfort and performance and allow the unit to operate well above its published ratings at times when humidity allows. The controller provides dynamic loop/coil temperature adjustment among other features.

The CX34 system capacity is fully dynamic and can operate between 25% and 100% of its rated capacity, as needed, and matches its actual capacity to the instantaneous heating or cooling load in real time. This means the system is always the right size for changing conditions, is never oversized, and avoids the on/off cycling of traditional systems.

Save More w/ DC Inverter Fan Motors
All of the thin-line (5.1" thin) wall, floor and ceiling fan coil units use high efficiency and nearly silent DC Inverter fan motors, designed for 115v 50/60Hz power. 220v 50/60Hz standard FCUs are available for export customers.

Geothermal Performance
There is no Energy Star program for air to water heat pumps. However, the Chiltrix air-cooled chiller exceeds the Energy Star EER requirements for geothermal water-to-water systems.

Server Room Cooling
Chiltrix offers an optional Free Cooling add-on which allows up to EER 141+ & COP 41+ cooling performance during winter at low ambient temperatures. Chiltrix chillers are also available in a N+1 redundant configuration.

Solar Ready
Perfect for solar PV operation with super low power draw and a 2 amp soft start that’s easy on inverters and batteries. Also integrates directly with solar PV, solar thermal hydronic heating & solar water heating systems.

Radiant, Boiler & Hydronic Integration
Can serve as low-cost primary heat when used with an existing boiler heating system. Perfect for radiant floor heating. Dramatically reduces heating costs for users of electric, propane or oil fired boiler systems.

Modular – Stackable
The CX34 can be configured with up to 3 outdoor units to create systems up to 6 Tons Cooling/8.5 Tons Heating

Dynamic Heating Performance
The CX34 provides heating down to outdoor temperatures as low as -4 °F (-20 °C). And the optional V18 variable backup heater can be directly integrated for precise control and the highest efficiency ever achieved by an electric hydronic backup heater.

UL 60335-2-40 / CSA 22.2 / SGS
All Specifications Subject To Change

www.chiltrix.com
The World’s Most Efficient Chiller Heat Pump

Ultra-Efficient

CX4 Air-To-Water Heat Pump

2 Tons Cooling / 3 Tons heating
IPLV Cooling  26,150 BTU COP 6.75  EER 23.02
NPLV Cooling 30,049 BTU COP 9.0  EER 30.7
Heating 33,813 BTU COP 3.92

Best of Breed Components

At Chiltrix we used every trick in the book and then some to deliver the highest electrical efficiency possible. And we didn’t stop there. The components we use to build our chillers are sourced from the world’s top manufacturers and include heat exchangers from Sweden, German pumps, American valves, electronics from Japan, controls from USA, and a compressor from Mitsubishi.

No corner has been cut when it comes to making sure that the parts and materials used to manufacture the CX34 are the best available. Our chiller is designed for performance - to deliver the lowest kW usage per BTU of any chiller heat pump available, and to perform this task for a 20-year service life.

Anti-Corrosion Technology to protect against salt air or air pollution is incorporated into all Chiltrix outdoor units. Includes special coil, sealed compressor and fan motor.

There is no other ATW heat pump like the CX34 available on the market at any price. Contact us to learn more about designing a chiller heat pump system for your home, commercial location, or server room. We can also help you integrate our system with an existing system, retrofit replacement, integration with solar or to an existing boiler or hydronic heating system.

Flexible Indoor Options

You can use up to 8 ductless fan coil units of any type including high-wall (mini-split type), low wall, ceiling, floor standing, etc. with the Chiltrix air to water heat pump chiller. You can also use (AHU) ducted fan coil air handlers for a central (forced air) heating & air conditioning system, use radiant floor or radiant panels, concealed ceiling fan coils or use any combination of these.

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