



# The World's Most Efficient Air-To-Water Heat Pumps

## Ultra-Efficient R32

### CX35 Air-To-Water Heat Pump

2 Tons Cooling / 3.4 Tons Heating  
IPLV Cooling 24,038 BTU EER 22.40  
Heating 40,361 BTU COP 4.9 @W95/A47  
Heating Seasonal Average COP 4.69 (SCOP)



## Heating, Cooling, Domestic Hot Water

Use any or all in the same application.

## Radiant, Ductless Fan Coils, Ducted

Use any or all in the same application.

## 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 power. 220v 50 Hz 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.

## Solar Ready

Perfect for solar PV operation with super low power draw and a low amp soft start that's easy on inverters and batteries. Also integrates directly with 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 heating and/or cooling. Dramatically reduces heating costs for users of electric, propane or oil fired boiler systems.

## Dynamic Heating Performance

The CX35 provides heating down to outdoor temperatures as low as -17 °F. We publish data to -4F. And the optional V18 variable backup heater can be directly integrated for precise dynamic control and the highest efficiency ever achieved by an electric hydronic backup heater.

**Chiltrix CX35 Has Europe's Highest Efficiency Rating!**  
**A+++ SCOP 4.62**



### R32 Ultra High Efficiency CX35 Heat Pump Chiller

Building on the success of the award-winning CX34, the CX35 has record-setting heating and cooling efficiency while using R32, the most eco-friendly refrigerant available.



The CX35 obtains its ultra high efficiency using our award-winning technologies in a new, larger system optimized for increased heating performance while still delivering extreme cooling efficiency. The CX35 uses a Mitsubishi DC Inverter compressor, a DC Inverter water pump (both are variable speed) controlled together with a DC inverter variable speed fan to achieve the best possible balance of performance, optimized water flow rate, compressor speed, and energy use.

The CX35 uses R32 for higher energy efficiency, with zero ozone depletion, and 67% lower global warming potential (GWP 675) than standard refrigerant R410a (GWP 2090). R32 allows higher capacity, uses less total refrigerant, and is less toxic than R410a with ATEL of 220,000 PPM.

### Dynamic Humidity Control (DHC)

The Chiltrix patented 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 CX35 system capacity is fully dynamic and can operate between 27% and 100% of its rated capacity, as needed. This means the system is always the right size for changing conditions and avoids the on/off cycling of traditional systems.

UL 60335-2-40 / UL 60335-1-40 CSA C22.2 / SGS  
EN 14825 / TUV

Images are representative only



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All Specifications Subject To Change

[www.chiltrix.com](http://www.chiltrix.com)



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The CX35 is Stackable up to 3 units, up to 120,000 BTU Heating / 72,000 BTU Cooling.

**Supports: Radiant Heating & Cooling, Ductless Fan Coils, Ducted Air Handlers & Domestic Hot Water:**  
Use Any or All, in Any Combination.

## Best of Breed Components

At Chiltrix we used every trick in the book and then some to deliver the highest energy 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 CX35 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, hermetically sealed compressor and fan motor.

**There is no other ATW heat pump like the CX35 available on the market at any price.** Contact us to learn more about designing an air-to-water heat pump chiller 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 – Any Combo:

You can use up to 12 or more ductless fan coil units of any type including wall mount, ceiling, floor standing, etc. with a single 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 it with a radiant floor or radiant panels, or with concealed ceiling fan coils, mini-ducts, or use any combination of these. Domestic water heating may be added to any of the above.

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US Patent 12,078,378



CX35 R32 DC Dual Inverter Heat Pump Specifications			
Per AHRI 550/590	Ambient / LWT (°F)	Capacity BTU / COP	
Heating	47F / 95F	40,468	4.90
	32F / 95F	31,118	3.88
	17F / 95F	25,113	3.24
Cooling	IPLV EER (W 44F)	24,038	22.40
	EER (A 95F W44)	24,039	10.25
Compressor	Dual Inverter Rotary	Mitsubishi	
MCA / Max Fuse		16a / 20a	
Power		208-240V/50-60Hz	
Max.Water Temperature (F)		131F	
Operating Range (F)		-13F ~122F	
Refrigerant Circuit	Refrigerant	R32	
	DC Inverter Compressor	Dual Rotary	
	Heat Exchange	Cu/Al Anti-Corrosion	
	Refrigerant Weight	2.35 Kg.	
Water Circuit	Heat Exchanger	Stainless 316 BPHE	
	Water Connections	1" NPT	
	Water flow (Max)	8 GPM	
	Max / Suggested Pressure	90 PSI / 25 PSI	
Dimensions WxHxD (mm)		1117*978*425	
Net Weight (Lbs.)		276 Lbs.	
Noise level dB(A)		49	

## Go All-Electric w/ Chiltrix

All-electric is the only path to PV-solar enabled net-zero emissions / zero paid energy usage.

## Radiant Cooling

Ask us about our new radiant cooling dew point control options. In many applications, a radiant heating system can also be used for cooling.

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