

CHILTRIX CX75



Building on the success of the award-winning CX34, the CX75 has record-setting heating and cooling efficiency while using R32, the most eco-friendly refrigerant available in USA.

CX75 Air-to-Water Heat Pump **CHILTRIX By UNICO™**

Chiltrix air-to-water heat pumps are an ultra-efficiency solution to “All Electric Home” HVAC systems and Net Zero energy. Chiltrix is a load capacity aware smart heat pump with a variable speed inverter compressor and variable speed pump.

Unico is the leading selling brand in small duct and Chilltrix the leading in air-to-water heat pumps. When The Unico System is paired with Chiltrix, you have an unparalleled HVAC system for your home. Two market leaders in one package taking your home HVAC to the next level.

About **THE PRODUCT**

The CX75 delivers ultra-high efficiency using Chiltrix's award-winning technologies in a larger system optimized for enhanced heating performance while maintaining exceptional cooling efficiency. A Mitsubishi EVI DC inverter compressor works in sync with a variable-speed DC inverter water pump and fan to precisely balance output, water flow, and energy use.

Using R32 refrigerant, the CX75 achieves higher efficiency with zero ozone depletion and a 67% lower global warming potential than R410A. The advanced R32 EVI compressor supports higher capacities and supply temperatures up to 149°F.

Dynamic Humidity Control (DHC)

The Chiltrix CX75 features Psychrologix® Dynamic Humidity Control (DHC), which continuously adjusts capacity and coil temperatures based on real-time indoor temperature and humidity. Operating from 27% to 100% of rated capacity, the system matches changing conditions without on/off cycling, improving comfort, humidity control, and overall efficiency.



Serving the USA Market
With Air To Water Heat Pumps
Since 2015



US Patent 12,078,378

CHILTRIX
by UNICO®



Unico FEATURES AND BENEFITS

- Unico is the industry leader in SDHV HVAC .
- Fits in any space no matter the building type or age.
- The Unico System's air is designed to isolate noise and vibration delivering air through quiet performance.
- Provides greater humidity removal, up to 30%, with the superior and efficient design of our cooling coils.
- Unico prides itself on our support and training for all installing contractors. Homeowners will have access to professional support regarding a Chiltrix outdoor unit connected with an indoor Unico system.



Product SYSTEM ADVANTAGES

- Unparalleled fit and performance as the highest-efficiency outdoor unit in its class on the market today.
- Allows for flexibility of design, incorporating heating and air conditioning; ventilation; underfloor heating, domestic hot water, and radiant cooling.
- Only products requiring a piping design prior to sale, ensuring accuracy and good operation.
- Outdoor and indoor unit pairings make for unlimited design flexibility.
- Outdoor units can be placed up to 300 feet from the home, eliminating noise in recreational outdoor spaces.
- Perfect for zero energy and passive house installations.

CX75	Ambient / LWT (°F)	Capacity BTU / COP	
Heating	47F / 95F	66,360	4.84
	32F / 95F	62,300	3.87
	17F / 95F	59,300	2.86
SCOP	EN14511	35c	5.36
SCOP	EN14511	55c	3.88
Cooling	IPLV EER (W 44.6F)	45,144	23.07
	NPLV EER (W 55.4F)	54,432	30.61
	EER (A 95F W44)	45,144	10.80
Compressor	EVI Dual Inverter Rotary	Mitsubishi	
Fan Motors	Dual Variable Speed	DC Inverter	
Power		208-240V/50-60Hz	
RLA / MCA / Max Allowed Fuse		30a/37a/60a	
Max.Water Temperature (F)		149 °F	
Lowest Water Temp - Cooling (w/ Glycol)		32 °F	
Operating Range (F)		-22 °F - 122 °F	
Refrigerant Circuit	Refrigerant	R32	
	DC Inverter Compressor	Dual Rotary EVI	
	Heat Exchanger 1	Cu/Al Anti-Corrosion	
	Heat Exchanger 2,3	Stainless 316L BPHE	
	Refrigerant Weight	2.7 Kg./ 95 Oz.	
Water Circuit	DC Variable Speed Pump	Grundfos	
	Water Connections	1.25" NPT	
	Water flow (Max)	13.6 GPM	
	Max / Suggested Pressure	90 PSI / 20 PSI	
Unit Dimensions WxHxD (mm)		43 7/8" *50 3/4" *16 3/4"	
Net weight (Lbs.)		336 Lbs.	
Noise level dB(A)		52	

Ultra-Efficient R32 CX75 Air-To-Water Heat Pump

4.3 Tons Cooling / 6 Tons Heating

IPLV Cooling 51,995 BTU EER 19.6 (IPLV)

Heating 72,640 BTU COP 4.57 @ W95/A47

All Specifications Subject To Change

The CX75 is Stackable up to 3 units, up to 217,000 BTU Heating / 156,000 BTU Cooling.

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



US Patent 12,078,378

CHILTRIX®
by UNICO



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