Ultra-Efficient R32 EVI MAX CX40X Air-To-Water Heat Pump Optimized For Cold Climate Heating

WIFI

2.1 Tons Cooling / 3.5 Tons Heating
Cooling 25,543 BTU IPLV COP 6.04
Seasonal Average EER 20.59
Heating 41,870 BTU COP 5.07 @W95/A47
EN14825 Heating Seasonal Average SCOP 5.36

Ambient Operating Range -22 °F up to 125 °F

Supports: Radiant, Ductless Fan Coils, Ducted Air Handlers & Domestic Hot Water in Any Combo

All Chiltrix wall, floor and ceiling fan coil units use nearly silent DC Inverter fan motors. Inverter ducted air handlers are available.

R32 Ultra High Efficiency CX40X EVI Heat Pump

Building on the success of the award-winning CX34, the CX40X has record-setting heating and cooling efficiency while using R32, the most eco-friendly refrigerant available in USA.

The CX40 obtains its ultra high efficiency using our award-winning technologies in a system optimized for increased heating performance while delivering extreme cooling efficiency and T3 performance. The CX40 uses a Panasonic EVI 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 performance.

About Our World's Record Official Efficiency Ratings: SCOP 5.36 is certified by SGS under EN14825 and represents the heating Seasonal Coefficient of Performance (SCOP) using European test conditions and BIN data, which are highly similar to USA DOE Climate Zone 5A conditions and BIN data. USA Zone 5A, characterized as a humid cold climate, includes cities like Hartford CT, Chicago IL, Manchester NH, and Pittsburgh, PA. Cooling data is certified under AHRI 550/590.

Dynamic Humidity Control (DHC)
The included Chiltrix Psychrologix ™ control 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. DHC control provides dynamic loop/coil temperature reset based on indoor humidity and temperature.

The CX40 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

AHRI CERTIFIED

10 YEARS ANNIVERSARY
Serving the USA Market Since 2015

Heating, Cooling, Domestic Hot Water

Use any or all in the same application with World's Record efficiency.

Radiant, Ductless Fan Coils, Ducted AHU

Use any or all in the same application.

Radiant Cooling

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

Max Temperature 149 °F

If needed, the CX65 can support baseboard heaters with up to 149F supply outlet temperatures.

Domestic Hot Water

Enjoy the highest rated efficiency rating of any US DOE Certified Heat Pump Water Heating System, and get up to UEF 4.95 with a first-hour ratings of up to 133 gallons.

Radiant, Boiler & Hydronic Integration

Can serve as low-cost primary or sole heat when used with or in replacement of an existing boiler heating system. Perfect for radiant floor heating, ducted or ductless. Dramatically reduces heating costs for users of electric, propane or oil-fired boiler systems.

Dynamic Heating Performance

The CX40 compressor provides heating down to outdoor temperatures as low as -22 °F. 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.

Images are representative only

SGS C US 626174/01

Ultra-Efficient R32 EVI MAX CX40X Air-To-Water Heat Pump Optimized For Cold Climate Heating T3 Rated For Hot Climate Cooling

2.1 Tons Cooling / 3.5 Tons Heating
Cooling 25,543 BTU IPLV COP 6.04
Seasonal Average EER 20.59
Heating 41,870 BTU COP 5.07 @W95/A47
EN14825 Heating Seasonal Average SCOP 4.95
Heating 41,870 BTU COP 5.07 @W95/A47
Heating 37,400 BTU COP 4.06 @W95/A32
Heating 29,000 BTU COP 2.87 @W95/A5
Heating 40,910 BTU COP 4.44 @W105/A47
Heating 36,710 BTU COP 3.63 @W105/A32
Heating 27,470 BTU COP 2.43 @W105/A5
Heating 39,340 BTU COP 3.69 @W120/A47
Heating 35,720 BTU COP 3.12 @W120/A32
Heating 25,150 BTU COP 1.92 @W120/A5

CEC California Energy Commission

Cooling 24,660 BTU EER 9.49 IPLV 20.7
Heating W120F A47F 39,340 BTU COP 3.7
Heating W120F A17F 32,790 BTU COP 2.6

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 CX40X 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 with an existing boiler or hydronic heating system with baseboard radiator support up to 149 °F.

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.

WIFI

Ambient Operating Range -22 °F up to 125 °F

Supports: Radiant, Ductless Fan Coils, Ducted Air Handlers & Domestic Hot Water in Any Combo

The CX40 is modular & stackable, up to 3 Chiltrix units of any size can be combined to create larger solutions.

CX40 Dual Inverter Heat Pump Specifications			
CX40 / CX40X	**Ambient / LWT (°F)**	**Capacity BTU / COP**	
Heating	47F / 95F	41,870	5.07
	32F / 95F	37,400	4.06
	17F / 95F	33,880	3.20
SCOP	EN14511	35c	4.95
SCOP	EN14511	55c	3.62
Cooling	IPLV EER (W 44.6F)	24,543	20.59
	NPLV EER (W 55.4F)	30,912	28.80
	EER (A 95F W44)	24,543	10.81
Compressor	EVI Dual Inverter Rotary	Panasonic	
Fan Motors	Dual Variable Speed	DC Inverter	
Power		208-240V/50-60Hz	
RLA / MCA / Max Allowed Fuse		18a/23a/35a	
Max.Water Temperature (F)		149 °F	
Lowest Water Temp - Cooling (w/ Glycol)		32 °F	
Operating Range (F)		-22 °F - 125 °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 kg.	
Water Circuit	DC Variable Speed Pump	Grundfos	
	Water Connections	1" NPT	
	Water flow (Max)	9.1	
	Max / Suggested Pressure	90 PSI / 20 PSI	
Unit Dimensions WxHxD (mm)		43.9" *37.1" *17.71"	
Net weight (Lbs.)		276	
Noise level dB(A)		49	

CX40 and CX40X

The CX40 has a standard variable speed pump & non-metal front grill. The CX40X adds a stainless-steel variable speed pump, and adds an aluminum front grill (shown in pic). The critical components we use to build our heat pumps 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. US Patent 12,078,378

Distributed By:

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