



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

Ultra-Efficient R32 EVI MAX T3 CX75XCHW Air-To-Water Heat Pump Optimized For Commercial Water Heating w/ 3-Tank Cascade Design & Double-wall Heat Exchanger

4.33 Tons Cooling / 5.5 Tons Heating
IPLV Cooling 51,995 BTU EER 19.6 (IPLV)
Water Heating up to 57,321 BTU M
Socal SCOP 4.40 - @135F Operating temp
Heating Seasonal Average SCOP up to 5.36
Operation up to 149 °F T3 Rated
NO SWING TANK NEEDED
Full End-T- End Ant-Legionella Available



R32 Ultra High Efficiency CX75X EVI Heat Pump

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



The CX75XCHW obtains its ultra high efficiency using our award-winning technologies in a new, larger system optimized for increased double-wall heat exchanger heating performance while still delivering extreme cooling efficiency. The CX75XCHW uses a Mitsubishi 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 balance of performance, optimized water flow rate, compressor speed, and energy use.

The CX75X cascade system capacity is fully dynamic and can operate between 5-% 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



T3 Ambient Range -22 °F up to 130 °F.

Anti-Legionella

All tanks in the system can operate at 140F during a scheduled sanitization operation. This process can sanitize the entire supply side, storage, and load side of the system. POU scald vales are required.

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.

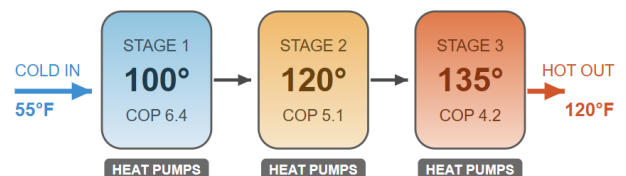
Freeze Protection & No Glycol

In a double-wall system without glycol there is not any absolute freeze protection system available that survives every possible occurrence including a city water supply failure, other than draining the system.

Each CX75XCHW comes with standard freeze protection. Note that standard freeze protection does not function during a utility power outage or with an inoperative heat pump. Freeze protection is the customers responsibility. Chiltrix can offer various levels of advanced freeze protection design options upon request.

There is no other ATW heat pump like the CX75X available on the market at any price. Contact us to learn more about designing an air-to-water heat pump chiller system for heating or cooling 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.

THREE-STAGE CASCADE HOT WATER



~50% of total BTUs are added at low temp, where a heat pump works best. All tanks can run at 140F for sanitization.

Pre-production datasheet, subject to change without notice.

Images are representative only



www.chiltrix.com



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Ultra-Efficient R32 EVI MAX T3 CX75X Air-To-Water Heat Pump With 3-Tank Cascade

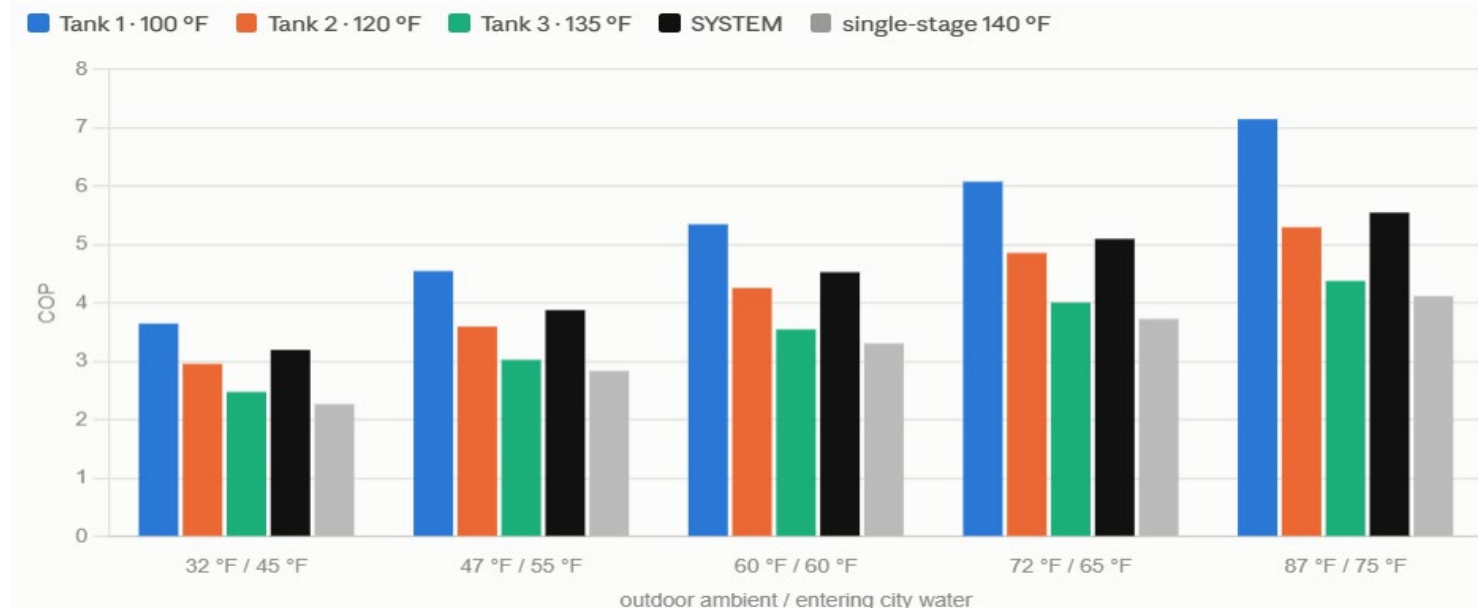
4.3 Tons Cooling Per Heat Pump
Cooling 51,995 BTU IPLV COP 5.76
Seasonal Average EER 19.64
Rated CHW Cascade SCOP 4.4
Rated CHW Cascade 395,900 BTU/h
COP 5.47 @ A77/GW55F
Rated GPH 638 / Max GPH 1,281 (1 hour)

Saves 42-45% Annual Electrical Cost Compared to Standard Commercial Heat Pump Water Heating Systems

CEC (California Energy Commission) Per Heat Pump:

Cooling 52,545 BTU EER 8.87 IPLV 19.6
Heating W120F A47F 60,426 BTU COP 3.59
Heating W120F A17F 48,859 BTU COP 2.34

CX75CCHW	Ambient / LWT (°F)	Capacity BTU / COP	
Domestic Hot Water Heating	32F / 95F	61,860	3.85
	60F / 95F	72,489	5.66
	80F / 95	86,528	7.10
Domestic Hot Water Heating	32F / 120F	53,841	2.95
	60F / 120F	63,770	4.25
	80F / 120F	74,347	4.21
Domestic Hot Water Heating	32F / 135F	48,454	2.48
	60F / 135F	57,113	3.55
	80F / 135F	67,762	4.22
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 Ambient Temperature (F)		-22 °F - 130 °F	
Refrigerant Circuit	Refrigerant	R32	
	DC Inverter Compressor	Dual Rotary EVI	
	Heat Exchanger 1	Cu/Al Anti-Corrosion	
	Heat Exchanger 2,3	Double-Wall 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 / 60 PSI	
Unit Dimensions WxHxD (mm)		44.5" *56.5" *17"	
Net weight (Lbs.)		336 Lbs.	
Noise level dB(A)		53	



Above shows 3-tank cascade system performance with three 400 gallon tanks vs. a standard single pass system

Distributed By:

Hydronic Specialty Company
Oakland, CA
www.2hsc.com
800-786-6847

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CSA C22.2 / SGS



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All Specifications Subject To Change

