

TruClimate 900

Heat Pump Chiller

Large Commercial | 30-Ton



Water-Furnace
Commercial Solutions

VERSATILE ELECTRIFICATION & DECARBONIZATION

The TruClimate 900 Heat Pump Chiller from WaterFurnace is one of the most versatile electrification and decarbonization solutions on the market. It features a variable-speed compressor utilizing WaterFurnace's OptiHeat technology to fulfill your commercial water heating and cooling needs. It can operate as a hot water or chiller water system or a simultaneous heating and cooling source.

The TruClimate 900 also fulfills a need for building owners and operators seeking to eliminate or reduce reliance on legacy fossil fuel solutions such as boilers and gas furnaces. These units make it possible to retrofit a building's HVAC system with an electric solution to minimize its carbon footprint or to create an entirely new heating and cooling solution.

ULTIMATE DESIGN FLEXIBILITY

Future proof your building with the TruClimate 900, providing the most sophisticated solution for new commercial or retrofit applications:

- Replace or supplement chiller/boiler systems with a non-fossil fuel chiller which utilizes a low GWP refrigerant.
- Hybrid solution to more cost-effectively design systems to meet peak demand loads.
- Reduced energy consumption - Heat recovery in chiller plant applications provides significant reduction in energy consumption. Variable speed operation along with advanced control algorithms use less energy than competitor models.

RELIABILITY & SERVICEABILITY

EXTREME CONDITIONS ARE NO MATCH

The TruClimate 900 delivers game-changing performance of 120°F water production in ambient temperatures as low as -15°F degrees. With true DC inverted permanent magnet variable speed compressors and fans, the heat pump chiller is able to provide higher efficiencies to service the space and match the building's load requirements.

CRITICAL REDUNDANCY

With most heating and cooling units, everything is in one package. If a refrigeration circuit springs a leak or a component requires maintenance, it can lead to costly downtime. The TruClimate 900 delivers a big advantage whether retrofitting or starting out fresh: each unit has two compressors. So if your building needs four units and a compressor needs servicing, you still have 87.25% total capacity available.

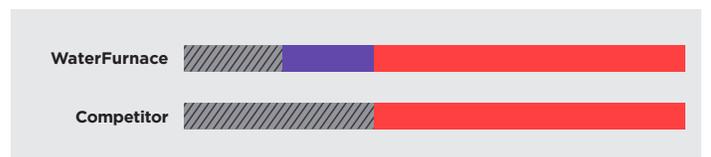
FROST MITIGATION THAT WON'T LEAVE ANYONE COLD

Unlike other comparable units, the frost mitigation technology built into the TruClimate 900 enables it to produce heat when others are defrosting. During defrost mode, typical air-source heat pumps will cycle three times every eight hours. Those units are unable to produce heat during such cycles, which is costly for building owners. The TruClimate 900 cycles once every six hours. Compressors with vapor injection are working in conjunction with Hydrolink2 Controls. This continual operation of the chiller lowers its cost of operation, saving you money. It also provides higher efficiency while maintaining comfort to building occupants.



Game-changing performance in any weather condition

FROST MITIGATION



Defrost: The unit is in defrost and is off-line, the unit is not in heating mode
Defrost Mitigation: The unit is on-line but not at full capacity
Heating

The WaterFurnace TruClimate 900 is in defrost 44% less than the competition. On a yearly basis, the competitive chillers will consume twice the amount of energy for defrost when compared to the TruClimate 900 chiller.

MODULARITY

SMALLER FOOTPRINT

Robust, innovative technology doesn't always have to come in a big package. We focused on modularity when designing the TruClimate 900 to simplify the installation experience:

- Commonly mounted on building rooftops where space is precious, the TruClimate 900's footprint is smaller than traditional rooftop chillers while still providing the same thermal output.
- Bank up to 10 units for a total capacity of up to 300 tons to deliver the water heating and cooling demand you need.



FLEXIBILITY

PROVIDES SIMULTANEOUS HEATING AND COOLING FROM A SINGLE CHILLER

At the unit level, chillers are traditionally either dedicated heating or cooling and not simultaneous heating and cooling. Instead of having to purchase two chillers, one for heating and the other for cooling, the TruClimate 900 provides simultaneous heating and cooling from a single chiller.

Utilizing patented technology, the chiller can address diverse heating and cooling loads from a single chiller which can save money and frees up square footage. This is a WaterFurnace exclusive and dramatically reduces peak capacity and redundancy issues. Think of the space you'll save not having to double up your equipment needs.



Simultaneous Heating & Cooling

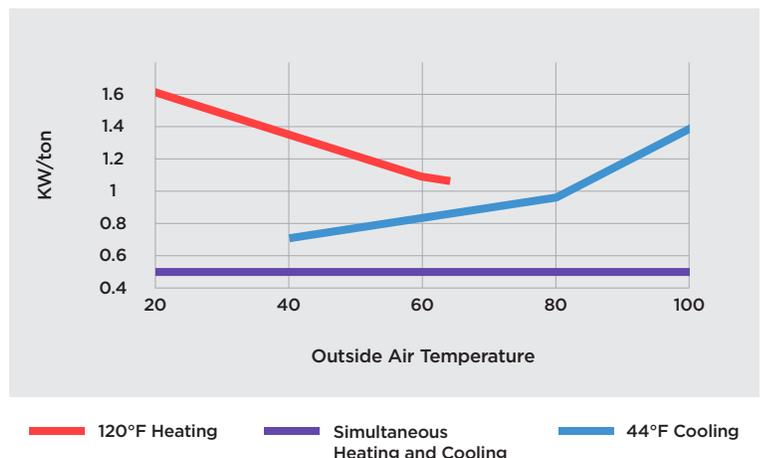
44°F Cooling

120°F Heating

MEETING ELECTRIFICATION & DECARBONIZATION

- The primary market is for heat recovery applications, which makes the TruClimate 900 an ideal solution for buildings that need to reduce or eliminate combustion and begin decarbonization.
- Removal of onsite combustion with this electric heat pump chiller. Utilizing the latest technology to meet the building's heating and cooling demands all without the use of gas or fossil fuels.
- As the industry moves towards decarbonization and electrification, the TruClimate 900 efficiently meets the heating and cooling requirements of today's buildings.
- All electric heat pumps and chillers, such as the TruClimate 900 Air-Cooled Chiller, are crucial to managing peak stress on the grid.

SIMULTANEOUS HEATING AND COOLING



When 44°F delivered cold water temperature and 120°F delivered hot water temperature is needed, the TruClimate 900 is able to utilize simultaneous heating and cooling to increase the performance of the chiller **by over 50%**.



ASK US HOW YOU CAN SAVE UP TO 50% ON YOUR NEXT COMMERCIAL PROJECT

With the Inflation Reduction Act, projects completed with a geothermal loop and heat pumps may qualify for:

- 30% bonus rate
- 10% bonus rate for domestic content
- 10% Energy Community bonus
- Up to \$5 per square foot tax deduction
- 5-year accelerate depreciation and a 1-year bonus depreciation



SCAN TO
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