



ENVISION™

Commercial 30 Ton

Water Source/Geothermal Heat Pump

WaterFurnace®
Commercial Solutions

Envision 30 Ton

WaterFurnace Envision 30 Ton Water Source Heat Pumps (WSHP) are an exceptional choice for large zones in commercial and institutional applications. Featuring a take-apart design, the 30 Ton can be moved into a building in two different sections, providing lower weight, smaller footprint, and better maneuverability. The sections can then easily be rejoined when the unit is ready to be installed. A variable frequency drive (VFD) with an LCD display is a new feature and allows for modifying blower speeds without manual pulley adjustments. The 30 Ton also boasts a wide range of factory-installed features like hot gas reheat, internal 2-way valves, waterside economizer, electrical disconnects, and many more.



Continuing our long history of innovation, efficiency, quality and reliability for commercial products

KEY FEATURES

SCROLL COMPRESSORS: Includes two high efficiency Danfoss Scroll compressors designed for heat pump operation. Dual level vibration system and internal overload protection are also featured.

COAXIAL HEAT EXCHANGERS: Dual oversized convoluted heat exchangers with copper inner tube (optional cupronickel) and steel outer tube allow for maximum heat transfer at normal and low water flow rates. This minimizes pressure drop and enhances freeze protection.

BLOWER MOTOR: Fan is belt driven, double width, double inlet forward curved with dynamically balanced wheel. Motors are permanently lubricated with thermal overload protection. Drive includes fixed pitch blower sheave and electronic variable speed drive for field adjusting the air flow.

CONTROLS: Aurora microprocessor control is standard. Optional Aurora Universal Protocol Converter (UPC) control is available featuring N2, LonWorks, and BACnet compatibility.

REFRIGERANT CIRCUIT: Utilizes R-410A refrigerant in two sealed circuits. Metering happens with a bi-flow thermostatic expansion valve for optimum refrigerant flow over a wide range of conditions without troublesome check valves. Four-way solenoid activated reversing valve defaults to heating and is "cool brazed" at the factory.

DUAL ALUMINUM AIR COILS: An aluminum air coil is featured in the Envision 30 Ton units to provide exceptional durability and high efficiencies. Added protection is also available with an optional AlumiSeal™ coating.

PIPING: Supply and return water connections are copper 1 1/4" or 2" NPT fittings, securely mounted flush to the cabinet corner post. Internal piping including coaxial heat exchanger is insulated to prevent condensation. Low temperature soldered piping prevents misshaping or weakening.

CABINET: Constructed of heavy gauge environmentally-responsible galvanized steel for maximum corrosion resistance, the 30 Ton cabinet is available in a vertical configuration. Fully connected or take-apart options are available as well as a waterside economizer option. Multiple knockouts and access panels are featured for ease of service.

FILTER RACK: Units include a factory-installed 2" wide filter bracket. The filter can be removed from either side. Optional MERV 13 filters available.

Envision 30 Ton



Model	A	B	C
360*	42.00"	88.12"	70.02"

*dimensions shown are with waterside economizer option

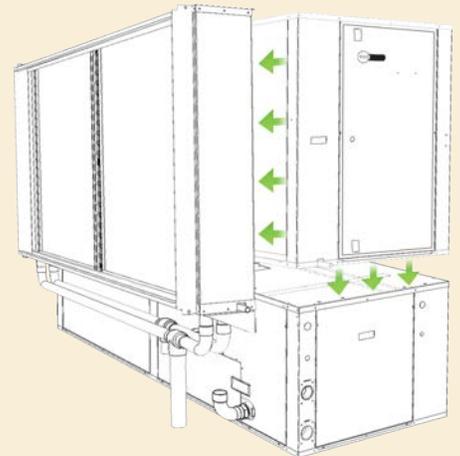
The WaterFurnace Envision 30 Ton exceeds ASHRAE 90.1 efficiencies.

✓ WATERSIDE ECONOMIZER

Stage one cooling is replaced by this exciting new component. The optional water side economizer circulates water already in the system through coils to provide heating and cooling for the building. It provides an amazing level of performance and efficiency to a system that's already one of the best in the industry.

✓ MODULAR DESIGN

Cabinet is shipped assembled but can be disassembled into pieces for ease of installation and transportation. Each piece fits perfectly into freight elevators and through doorways, offering an unmatched level of convenience. A third component, the waterside economizer, is also shipped separately for field installation.



AHRI/ISO 13256-1 PERFORMANCE RATINGS

ARI/ASHRAE/ISO 13256-1
English (IP) Units

Model	Capacity Modulation	Flow Rate		Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
				Cooling EWT 86°F		Heating EWT 68°F		Cooling EWT 59°F		Heating EWT 50°F		Cooling EWT 77°F		Heating EWT 32°F	
		gpm	cfm	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
360*	Full Load	90.0	8800	355,500	12.1	454,600	4.2	401,600	17.0	375,200	3.7	356,800	13.1	290,800	3.2
	Part Load	90.0	8800	186,600	12.7	238,700	4.3	210,800	17.9	197,000	3.9	187,300	13.8	152,700	3.4

7/24/2015

Cooling capacities based upon 80.6°F DB, 66.2°F WB entering air temperature

Heating capacities based upon 68°F DB, 59°F WB entering air temperature

All ratings based upon 208-230/60/3 operation. Other voltages available.

*Ratings are outside the scope of the ARI Water to Air/Brine to Air Heat Pumps Certification Program.

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