

Versatec Variable Capacity
Commercial / 10 & 15 Ton
Water Source/Geothermal Heat Pump



Versatec[®] VS
VARIABLE SPEED

VERSATEC VARIABLE SPEED FOR COMMERCIAL APPLICATIONS

The WaterFurnace line of commercial variable capacity water source and geothermal systems offers the industry the absolute best in efficiency while maintaining the small cabinet your building needs. The 10 and 15 ton commercial variable capacity units feature Aurora Advanced Controls with true energy, refrigeration, and optional performance monitoring as well as the optional Aurora UPC DDC Controls to integrate into building automation systems. With a capacity range of 25-100%, the WaterFurnace variable capacity system will scale its output to what your building actually needs, maximizing occupant comfort levels.

KEY FEATURES

MODEL SIZES: The 120 and 180 units are available in both horizontal and vertical cabinets as well as with bottomflow configurations for installation in virtually any application.

WIDE CAPACITY RANGE: The variable speed unit operates at the speed it needs to condition the space and varies itself between 25% and 100% capacity resulting in the most efficient and comfortable conditioning possible.

VARIABLE CAPACITY COMPRESSOR: Copeland variable speed scroll compressors and drives are featured and provide the utmost in efficiency and capacity modulation.

AURORA ADVANCED CONTROLS: The advanced controls provide two-way communication among components as well as true energy monitoring and optional performance and refrigerant monitoring kit compatibility. The Aurora controls system is a complete commercial comfort platform that can bring all aspects of the HVAC system into one cohesive module network.

AURORA UPC DDC CONTROLS: A wide variety of points are covered including configurations, sensors, airflow, freeze protection, and even economizer enthalpy controls.

ALL-ALUMINUM AIR COILS: An aluminum air coil is featured in all commercial variable capacity units to provide exceptional durability and high efficiencies. Added protection is also available with an optional AlumiSeal™ coating.

ELECTRONIC EXPANSION VALVE (EEV): The EEV provides optimal refrigerant flow in the variable capacity system ensuring high efficiency and compressor reliability.

INTEGRATED EC DIRECT DRIVE FAN MOTORS: Models 120-180 feature an EC Plenum Fan Motor and Blower with an integrated communicating variable speed EC fan motor with a backward curve impeller providing efficient airflow through 2" of external static footprint for quiet operation and amazing static capability.

CABINET: The cabinets utilize a compact footprint and are constructed of heavy gauge environmentally responsible galvanized steel for maximum corrosion resistance. Units are available with a durable white powder coat finish or unpainted. All interior surfaces are lined with 1/2" thick, foil lined acoustic type fiber insulation, applied in a manner that prevents the introduction of glass fibers into the air stream.

FILTER RACK/RAIL: Redesigned filter rack includes a standard 1" filter rail with a MERV 4 filter. Options include a 1" or 2" four-sided filter rack suitable for ducted applications, or a 2" filter rail with MERV 13 filters for non-ducted applications.

OPTIONAL: Discharge Air Temperature Control for displacement ventilation for under floor systems.

VERSATEC VARIABLE SPEED 10-15 TON

VS ECM Motors

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

Model	Capacity Modulation	Flow Rate		ESP	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 Brine Full Load 77°F Part Load 68°F		Heating Brine Full Load 32°F Part Load 41°F	
		gpm	cfm	inH2O	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
120	Full	30	4000	1.0	125,000	14.5	140,000	4.6	145,000	22.0	115,000	4.0	132,000	16.5	96,000	3.5
	Part	20	1500	1.0	40,000	22.0	40,000	6.0	50,000	50.0	25,000	5.0	45,000	40.0	24,000	4.5
180	Full	45	5600	1.0	175,000	13.2	200,000	4.3	200,000	18.0	185,000	4.0	180,000	14.2	145,000	3.4
	Part	20	2400	0.5	50,000	22.0	50,000	6.8	60,000	45.0	40,000	5.0	60,000	33.0	34,000	4.3

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 208V operation

10/29/17

Dimensional Data

Vertical Models	Width	Depth	Height
120	34.0"	36.3"	72.5"
180	34.0"	46.3"	72.5"

Horizontal Models	Width	Depth	Height
120	34.0"	89.0"	29.9"
180	34.0"	110.0"	29.9"

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