

Versatec® 500

Water Source/Geothermal Heat Pump

0.75 - 6 Ton

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Product Line Catalog



VERSATEC® 500

Versatec 500 delivers high-efficiency performance in a small footprint, making it well suited for commercial retrofit applications. Available in capacities from 3/4 to 6 tons (009-072), this series combines advanced Aurora controls with flexible configuration options to meet diverse application requirements. Versatec 500 far exceeds ASHRAE 90.1 minimum efficiency requirements and utilizes low global warming potential (GWP) R-454B refrigerant.

KEY FEATURES & CONFIGURABLE OPTIONS

COMPRESSORS: Double-isolated single-speed and two-stage scroll compressors, along with rotary compressor technology, deliver reliable, energy-efficient operation with reduced vibration and sound transmission.

WATER CONNECTIONS: Copper FPT water connections are mounted flush with the cabinet corner post simplify installation and piping connections.

COAXIAL HEAT EXCHANGER: Oversized, convoluted copper inner tube (optional cupronickel) and steel outer tube, maximizes heat transfer.

ALUMINUM AIR COIL: High-efficiency aluminum construction provides effective heat transfer and durability. Optional AlumiSeal coating offers enhances corrosion protection.

CABINET: Heavy-gauge galvanized steel with optional white powder coat finish. All interior surfaces feature 1/2", foil lined acoustic insulation, designed to minimize fiber migration into the airstream. Multiple electrical knockouts accommodate power and low voltage wiring connections.

REFRIGERANT CIRCUIT: Factory sealed circuits incorporate a bi-flow TXV for precise refrigerant metering across a wide range of operating conditions.

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

CONTROLS: Standard Aurora® Base Control provides unit operation and protection. Optional Universal Protocol Converter for BACnet communication for building automation system integration.

BLOWER MOTOR: High-efficiency blower motors provide quiet operation and flexible airflow performance. Available configurations include a 5-speed and variable speed ECM to accommodate application specific airflow requirements.

MOTORIZED WATER VALVE & FLOW CONTROL: Optional factory installed water valves and flow regulators for optimal water flow control in variable pumping applications.

HOT WATER GENERATOR: Optional factory-installed desuperheater with field-mounted pump recovers heat for supplemental domestic water heating.

ADDITIONAL OPTIONS:

- Hot Gas Reheat & Hot Gas Bypass (sizes 015-072)
- 460V models with X-13 motor option eliminates neutral wire requirement
- Sound kits for reduced noise during operation
- Factory installed disconnect, Phase Guard and IntelliStart® soft start
- Composite or Stainless Steel condensate drain pans with Secondary drain connections
- Extended range coaxial heat exchanger and piping insulation

AHRI/ISO 13256-1 PERFORMANCE DATA TABLE

AHRI/ASHRAE/ISO 13256-1

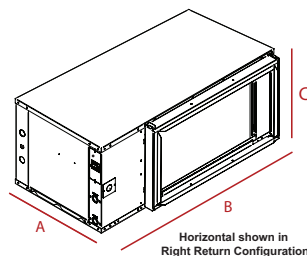
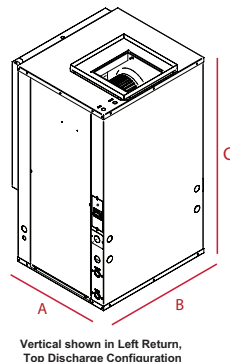
Model	Capacity Modulation	Flow Rate		Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
				Cooling EWT 86°F		Heating EWT 68°F		Cooling EWT 59°F		Heating EWT 50°F		Cooling Brine Full Load 77°F Part Load 68°F		Heating Brine Full Load 32°F Part Load 41°F	
		gpm	cfm	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
009	Single	3.0	350	10,000	15.5	12,000	4.6	12,000	23.1	10,000	4.1	11,000	16.5	8,500	3.4
012	Single	3.5	400	12,000	16.0	15,000	5.2	14,000	26.0	12,400	4.3	13,000	18.0	9,500	3.6
015	Single	4.0	500	15,000	16.8	19,000	5.5	17,000	28.0	16,000	4.9	15,500	19.5	12,000	4.1
018	Single	5.0	600	18,000	15.5	23,000	5.3	20,600	25.0	18,500	4.6	18,500	18.3	14,500	4.0
024	Single	8.0	800	24,500	17.5	30,000	5.4	28,000	28.0	24,000	4.7	26,000	20.6	19,000	4.0
030	Single	8.0	900	30,000	17.5	36,000	5.3	33,000	28.0	30,000	4.5	30,000	21.0	23,000	3.9
036	Single	9.0	1200	36,000	18.8	39,000	5.8	39,000	29.0	32,000	5.0	37,500	21.5	26,000	4.2
042	Single	11.0	1300	42,000	18.4	49,000	6.0	45,000	27.0	39,000	5.2	42,000	21.2	32,000	4.2
048	Single	12.0	1500	49,000	16.8	58,500	5.6	53,500	26.0	48,000	4.8	51,000	19.0	38,500	4.2
060	Single	15.0	1800	61,500	16.8	71,000	5.3	68,000	25.0	59,200	4.7	63,000	19.2	47,900	3.9
072	Single	18.0	2000	67,000	15.3	86,000	5.1	76,000	23.0	68,000	4.4	70,000	17.8	54,000	3.7
018	Full	5.0	600	17,600	16.8	22,500	5.7	20,800	27.0	18,900	5.0	18,700	19.8	14,700	4.2
	Part	4.0	500	13,400	16.9	17,000	6.1	15,200	29.5	14,200	5.1	14,700	24.8	12,400	4.7
024	Full	8.0	950	23,800	16.1	28,000	5.7	26,400	25.2	23,300	4.9	25,000	19.2	19,400	4.1
	Part	7.0	750	17,700	18.3	20,300	6.4	19,700	31.8	16,900	5.2	19,600	26.6	15,800	4.6
030	Full	8.0	1000	30,800	17.3	38,600	5.6	35,200	27.5	31,100	4.8	32,300	20.3	24,600	4.0
	Part	7.0	800	22,400	19.0	27,200	6.1	26,100	35.9	21,800	4.9	24,800	28.7	19,400	4.3
036	Full	9.0	1300	36,400	17.9	43,300	6.1	41,800	28.4	36,000	5.3	38,500	20.8	29,600	4.5
	Part	8.0	1150	27,600	20.0	31,200	6.8	31,000	35.6	25,900	5.5	30,300	30.0	23,600	5.0
042	Full	11.0	1300	40,100	16.5	50,500	5.9	46,200	26.6	41,700	5.2	41,700	19.2	33,700	4.4
	Part	10.0	1200	29,300	17.5	36,500	6.8	34,400	32.7	29,700	5.5	33,100	26.9	26,600	4.9
048	Full	12.0	1600	46,600	16.1	59,600	5.7	53,100	24.9	49,300	5.1	50,500	18.9	40,100	4.4
	Part	11.0	1400	34,300	17.4	43,100	6.7	39,900	32.7	35,500	5.5	39,200	27.3	32,000	5.0
060	Full	16.0	1800	61,600	16.5	64,600	5.2	68,400	24.2	56,100	4.7	66,000	19.3	47,600	4.1
	Part	14.0	1500	42,900	17.4	45,800	5.9	49,400	31.4	38,700	4.9	49,100	26.5	35,500	4.4
072	Full	18.0	2000	70,100	16.0	87,800	5.1	78,100	23.1	71,400	4.6	73,400	18.3	57,900	4.0
	Part	16.0	1500	52,800	17.2	64,800	5.4	58,900	29.7	52,600	4.6	56,300	25.1	47,600	4.2

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

5/7/24

DIMENSIONAL DATA

Model Sizes	Cabinet Configuration	Overall Cabinet (Inches)		
		Width A	Depth B	Height C
009-012	Horizontal	22.5	35.0	17.2
	Vertical	22.5	22.2	30.2
015-018	Horizontal	22.5	42.0	19.2
	Vertical	22.5	26.2	40.2
024-030	Horizontal	22.5	45.0	19.2
	Vertical	22.5	26.2	44.2
036	Horizontal	25.5	48.0	21.2
	Vertical	25.5	31.2	44.2
042-048	Horizontal	25.5	53.0	21.2
	Vertical	25.5	31.2	48.2
060	Horizontal	25.5	61.0	21.2
060-072	Vertical	25.2	31.2	52.2
072	Horizontal	25.5	68.0	21.2



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