

**Versatec 500 Rooftop**  
Commercial / 3-30 Ton  
Water Source/Geothermal Heat Pump



## PACKAGED ROOFTOP UNIT FOR COMMERCIAL APPLICATIONS

The innovative Versatec packaged water source rooftop unit is not only designed to meet the highest demands in efficiency and features but also exceeds ASHRAE 90.1-2013 requirements for rooftops with economizers. The Versatec 500 Rooftop is a 'clean sheet' design and combines the latest in plenum fan technology, Aurora controls and economizer integration into a powerful platform of efficiency, flexibility and integrated technology.

### KEY FEATURES

**RANGE OF LOAD CAPACITIES:** Available in 3-6 and 8-30 (3 cabinet sizes) ton full load capacities for installation in any application.

**SCROLL COMPRESSORS:** All models utilize reliable and efficient scroll compressors. Choose between single speed, dual capacity (3-6 ton), or two single compressors on independent circuits.

**AURORA CONTROLS:** Aurora is the newest family of WaterFurnace controls that feature two-way communication and advanced monitoring (optional). Control features for the rooftop unit include integrated economizer controls as well as a disconnect with tagged lockout.

**AURORA UPC DDC CONTROLS:** An optional DDC control utilizing BACNet, N2, or LON protocols is available and will tie into a building automation system smoothly for even more control.

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

**FIELD-CONVERTIBLE:** The rooftop cabinet is field-convertible from bottom to side return/discharge.

**DURABLE DRAIN PANS:** A slide-out double-sloped stainless steel condensate drain pan is featured for convenience and durability.

**VARIABLE SPEED BLOWER MOTORS:** Depending on size, multiple blower motor options are available including a 5-Speed ECM, forward curve variable speed ECM, or variable speed ECM backward incline plenum fans.

**WEATHER-PROOF CABINET:** Fully weather-proof cabinet features double-wall door construction, 1" foil-faced insulation, and gasketed door seals.

**OUTDOOR AIR:** Factory mounted modulating economizer, or fixed or motorized outdoor air dampers.

**AIR FILTRATION:** Integrated 4 sided filter rack with 1", 2" or 4" MERV 13, or 2" MERV 8 options.

#### ADDITIONAL OPTIONS:

- REHEAT AND/OR HOT GAS BYPASS
- ECONOMIZER
- MOTORIZED DAMPER
- MULTIPLE ROOF CURB OPTIONS
- OUTLET FIELD WIRED GFI
- HIGH EFFICIENCY 5 SPEED OR VARIABLE SPEED ECM MOTOR WITH FORWARD CURVE BLOWER (036-072)

# VERSATEC 500 ROOFTOP 3-30 TON

## 5 Speed, VS ECM, and Plenum Motors

AHRI/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 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
036	Single	9.0	1200	32,300	18.8	36,500	5.7	36,800	28.8	29,200	4.9	33,700	22.0	24,400	4.2
048	Single	12.0	1500	44,100	16.3	55,600	5.4	50,300	25.9	44,700	4.7	45,900	18.8	36,400	4.0
060	Single	15.0	1800	61,100	16.4	74,100	5.5	66,900	24.3	59,200	4.7	62,200	18.4	47,900	4.0
070	Single	18.0	2000	66,200	15.3	85,000	5.0	75,000	22.9	68,000	4.4	69,100	17.6	54,000	3.7
038	Full	9.0	1300	36,500	17.0	43,300	5.5	40,000	24.4	35,000	4.9	38,200	19.7	28,500	4.2
	Part	8.0	1150	26,500	19.0	31,300	6.4	29,900	32.1	24,900	5.1	29,500	28.0	22,900	4.8
049	Full	12.0	1600	49,100	17.2	59,000	5.5	54,100	24.5	47,200	4.6	50,800	19.3	38,200	4.0
	Part	11.0	1400	36,300	19.1	41,700	6.1	41,600	33.0	33,600	4.7	39,800	27.4	31,000	4.4
064	Full	16.0	1800	62,300	16.4	73,900	5.2	69,000	23.9	60,400	4.6	65,500	19.3	47,300	3.8
	Part	14.0	1500	45,800	18.1	53,200	5.9	53,000	30.7	43,500	4.8	50,500	26.5	35,700	4.3
072	Full	18.0	2000	70,100	15.6	88,000	4.8	79,000	22.0	71,000	4.3	73,800	18.2	55,400	3.7
	Part	16.0	1500	54,200	17.0	66,000	5.1	61,500	27.6	52,700	4.3	59,400	24.9	47,400	3.9
096	Full	24.0	3000	88,200	16.3	111,200	5.4	100,600	25.9	89,400	4.7	91,800	18.8	72,800	4.0
	Part	12.0	1500	44,100	16.3	55,600	5.4	50,300	25.9	44,700	4.7	45,900	18.8	36,400	4.0
120	Full	30.0	3600	122,200	16.4	148,200	5.5	133,800	24.3	118,400	4.7	124,400	18.4	95,800	4.0
	Part	15.0	1800	61,100	16.4	74,100	5.5	66,900	24.3	59,200	4.7	62,200	18.4	47,900	4.0
144	Full	36.0	4000	132,400	15.3	170,000	5.0	150,000	22.9	136,000	4.4	138,200	17.6	108,000	3.7
	Part	18.0	2000	66,200	15.3	85,000	5.0	75,000	22.9	68,000	4.4	69,100	17.6	54,000	3.7
180	Full	45.0	5600	180,000	17.1	190,000	5.0	187,000	22.2	149,000	4.3	185,000	18.5	109,000	3.4
	Part	28.0	2800	92,000	17.1	98,000	5.1	85,000	22.2	75,000	4.4	95,000	18.5	60,000	3.5
181	Full	45.0	5600	180,000	17.1	190,000	5.0	187,000	22.2	149,000	4.3	185,000	18.5	109,000	3.4
	Part	28.0	2800	92,000	17.1	98,000	5.1	85,000	22.2	75,000	4.4	95,000	18.5	60,000	3.5
240	Full	60.0	7600	240,000	16.3	296,000	5.2	264,000	22.5	237,000	4.6	246,000	17.4	184,000	3.8
	Part	35.0	3800	120,000	16.3	148,000	5.2	132,000	22.5	118,500	4.6	123,000	17.4	92,000	3.8
300	Full	75.0	9500	284,000	17.3	353,000	5.4	314,000	24.5	286,000	4.8	291,000	19.0	224,000	4.2
	Part	50.0	4800	142,000	17.3	176,500	5.4	157,000	24.5	143,000	4.8	145,500	19.0	112,000	4.2
360	Full	90.0	11000	360,000	12.2	455,000	4.2	400,000	17.0	375,000	3.7	355,000	13.1	290,000	3.2
	Part	45.0	5500	185,000	13.0	240,000	4.3	210,000	17.9	197,000	3.9	187,000	13.8	152,000	3.4

7/27/17

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

Models 036-120 are rated and certified in accordance with ISO/AHRI/ASHRAE 13256-1

Models 144-360 are rated in accordance with ISO/AHRI/ASHRAE 13256-1 but are not certified since their capacity exceeds the scope of the AHRI program.

### Dimensional Data

Model	Width	Depth	Height
036 - 072	93.0"	40.0"	45.0"
096 - 144	107.0"	52.0"	48.0"
180 - 360	122.0"	82.0"	56.0"

CS1250AU 02/24



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