



THE SMART SOLUTION FOR ENERGY EFFICIENCY

## ROOFTOP (RE) SERIES 3 TO 20 TON ROOFTOP PACKAGED UNITS



# ClimateMaster Water-Source Heat Pumps Rooftop (RE) Series 3 to 20 Ton Rooftop Packaged Units

## THE ROOFTOP (RE) SERIES

The RE series WSHP rooftop units offer high efficiency at competitive prices for applications where outdoor equipment is required. The RE series meets ASHRAE 90.1 efficiencies and is up to 40% more efficient than typical air source rooftop units.

Available in sizes 3 tons (10.6 kW) through 20 tons (70.3 kW) with various outdoor air options, the RE series offers a wide range of units for most any installation. The RE has an extended range refrigerant circuit, capable of ground loop (geothermal) applications as well as water loop (boiler-tower) applications. Standard features are many. Microprocessor controls, galvanized steel cabinet, epoxy powder coat paint and TXV refrigerant metering device are just some of the features of the flexible RE series. All units are equipped with scroll compressors and belt drive blowers.

The ability to handle outside air is one of the most attractive features of the RE series. Choices include manual fresh air damper, motorized fresh air damper, modulating economizer with enthalpy controls, and even a 100% outside air option when coupled with the Rx series ERV (Energy Recovery Ventilator). Options such as DDC controls, factory-installed water solenoid valves, and several filter choices allow customized design solutions.

The RE Series water-source heat pumps are designed to meet the challenges of today's HVAC demands with a high efficiency, high value solution.

## UNIT FEATURES

- Sizes 03 (3 ton, 10.6 kW), 04 (4 ton, 14.1 kW), 05 (5 ton, 17.6 kW), 07 (7 ton, 24.6 kW), 08 (8 ton, 28.1 kW), 10 (10 ton, 35.2 kW), 12 (12 ton, 42.2 kW), 15 (15 ton, 52.8 kW), 20 (20 ton, 70.3 kW)
- Copeland scroll compressor(s)
- Dual refrigeration circuits (sizes 08 and larger)
- Exceeds ASHRAE 90.1 efficiencies
- Galvanized steel construction with epoxy powder coat paint
- Insulated cabinet standard
- Insulated refrigerant/water circuit(s) optional
- Double wall construction for access doors with stainless steel hardware
- TXV metering device
- Extended range (20 to 110°F, -6.7 to 43.3°C) operation
- Microprocessor controls standard (optional DXM and/or DDC controls)
- LonWorks, BACnet, Modbus and Johnson N2 compatibility options for DDC controls
- Belt-drive blowers for flexible CFM/ESP operation
- Slide-out blower assembly with high efficiency motors and variable pitch sheaves
- Unit Performance Sentinel performance monitoring system
- Eight Safeties Standard
- Wide variety of options

# The Smart Choice for Energy Efficiency



Integrated lifting lugs



2" fiberglass filters standard. Optional 4" and pleated filters (pleated filters shown)



Copeland Scroll compressors (dual circuited on 8 ton and larger)

Fully insulated including base pan



Heavy duty cabinet, powder coated, stainless steel hinges



ABS gear driven dampers



Slide out blower assembly featuring high efficiency motors/variable pitch sheaves

100% outside air with Rx series ERV (Energy Recovery Ventilator) module

## PERFORMANCE AND SPECIFICATIONS

### ARI/ISO/ASHRAE 13256-1 Data (English (IP) Units & Metric (SI) Units)\*

Model	Voltage & Refrigerant	Water Loop Heat Pump				COP
		Cooling 86°F [30°C]		Heating 68°F [20°C]		
	Capacity	EER	Capacity			
	60Hz - R22	MBtuh [kW]	Btuh/W [W/W]	MBtuh [kW]		
50Hz - R22	kW	W/W	kW			
RE03	60Hz - R22	33.4 [9.79]	13.5 [4.0]	38.3 [11.23]	4.8	
RE04	60Hz - R22	45.6 [13.37]	14.7 [4.3]	50.2 [14.71]	5.1	
RE05	60Hz - R22	58.1 [17.03]	13.4 [3.9]	68 [19.93]	4.5	
RE07	60Hz - R22	78.8 [23.10]	13.4 [3.9]	90.9 [26.64]	4.4	
RE08	60Hz - R22	91.9 [26.93]	14.7 [4.3]	96.7 [28.34]	4.6	
RE10	60Hz - R22	119.1 [34.91]	13.6 [4.0]	129.9 [38.07]	4.2	
RE12	60Hz - R22	133.1 [39.01]	13.4 [3.9]	148.2 [43.44]	4.3	
RE15	60Hz - R22	175.7 [51.50]	15.7 [4.6]	175.7 [51.50]	5.0	
RE20	60Hz - R22	249.7 [73.18]	14.2 [4.2]	267.1 [78.28]	4.5	

Cooling capacities based upon 80.6°F [27°C] DB, 66.2°F [19°C] WB entering air temperature.

Heating capacities based upon 68°F [20°C] DB, 59°F [15°C] WB entering air temperature.

All ratings based upon operation at the lower voltage of dual voltage rated models.

\* ARI/ISO standard does not include rooftop WSHPs. Units are tested per ARI/ISO 13256-1, and may be applied to ground loop (geothermal) applications.

### Dimensional Data

Model		Overall Cabinet		
		W	D	H
03 - 07	in.	43.2	80.1	39.4
	cm.	109.7	203.5	100.1
08 - 12	in.	49.2	90.1	45.4
	cm.	125.0	228.9	115.3
15 - 20	in.	87.1	90.1	50.6
	cm.	221.2	228.9	128.5

### Voltage Options

Model	Volts	Hz	Phase
03	208/230	60	3
	460	60	3
	380/420	50	3
04 - 20	208/230	60	3
	460	60	3
	575	60	3
	380/420	50	3



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