

TRILOGY™ 45 Q-MODE (QE)



Features

- 1 Q-Mode lowers operating costs by providing year-round, full-time water heating at 300% efficiency in all four operating modes: space cooling, space heating, hot water generation while space cooling and hot water generation.
- 2 Exclusive iGate™ Communicating Controls uses the power of two-way communication to configure, monitor, and diagnose your system. It improves system life by monitoring and protecting the unit and delivers high efficiency by intelligently controlling the unit.
- 3 The iGate™ Smart Tank communicates with the Trilogy™ 45 Q-Mode heat pump to deliver 100% of your home's hot water needs at over 500% efficiency, saving up to 80% on your hot water bills.
- 4 The iGate™ Connect Smart Thermostat features an easy-to-read high-resolution color display, making it easy to quickly set a personalized program, adjust settings and create new events.

Trilogy™ 45 Q-Mode is the first geothermal heat pump ever certified by AHRI to exceed 45 EER and is 47% more efficient than any other geothermal heat pump available today. Trilogy™ Q-Mode far exceeds the capabilities of any other HVAC unit on the market today with four significant differentiators:

1. Fully variable system exceeds 45 EER (highest in industry), driven by a variable speed compressor, variable speed blower fan and variable speed loop pump.
2. Q-Mode, the only system that provides year round full-time water heating, plus space heating and cooling and free space cooling while generating hot water, further reducing home energy operating costs.
3. The MOST INTELLIGENT residential geothermal heating and cooling system with advanced monitoring and diagnostics.
4. Web-enabled configuration and diagnostics allow dealers to access the Trilogy™ real-time data and fault information and make changes to the configuration of the unit from any web-enabled device.

The Trilogy™ Q-Mode is a packaged water-to-air geothermal system that far exceeds ENERGY STAR® Tier 3 efficiency levels and qualifies for an uncapped 30% federal geothermal heat pump tax credit through 2016.

* Rated at Ground Loop Conditions ISO 13256-1

** Recognized as Most Efficient of ENERGY STAR 2012

- 5 vFlow™ Variable Water Flow with variable speed pump delivers the precise amount of water flow required for peak performance, providing further savings.

Application Flexibility

- Inverter variable speed compressor delivers the precise amount of heating and cooling for high efficiency and comfort
- Emerson UltraTech variable-speed communicating fan motor uses minimum energy (watts) to deliver maximum comfort and energy savings for lower energy bills
- Microchannel air coil for better thermal performance and is corrosion resistant
- Foil-faced insulated blower section and fully insulated compressor section conform to ASHRAE 62 specifications
- Two-inch high-efficiency MERV 11 Filter (standard) or optional EarthPure air cleaner for high quality indoor air
- Two-section swing-out/drop-out control box design provides wide-open service access

CLIMATEMASTER® GEOTHERMAL HEAT PUMP SYSTEMS

DECLARE YOUR PERSONAL ENERGY INDEPENDENCE

Trilogy™ 45 Q-Mode (QE)

Performance and Specifications

Trilogy™ 45 QE ISO Ratings

AHRI/ISO/ASHRAE 13256-1



Model	Capacity Modulation	Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
		Cooling 86°F		Heating 68°F		Cooling 59°F		Heating 50°F		Cooling Full Load 77°F Part Load 68°F		Heating Full Load 32°F Part Load 41°F	
		Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
QE0930	Part 1	9,000	24.1	12,000	8.7	9,500	64.0	12,000	5.9	9,000	43.2	12,000	5.1
	Part 2	12,000	23.6	18,000	8.1	12,000	68.1	18,000	5.7	12,000	44.3	18,000	4.9
	Part 3	18,000	21.4	24,000	7.4	18,000	56.0	24,000	5.3	18,000	37.2	24,000	4.6
	Full	24,000	19.3	30,000	6.6	24,000	42.0	30,000	4.8	24,000	24.3	30,000	3.6
QE1860	Part 1	18,000	25.2	24,000	8.6	19,000	62.1	24,000	6.1	18,000	45.1	24,000	5.1
	Part 2	24,000	24.4	36,000	7.6	24,000	62.0	36,000	5.6	24,000	43.0	36,000	4.7
	Part 3	36,000	20.8	48,000	6.6	36,000	48.9	48,000	5.1	36,000	35.2	48,000	4.2
	Full	48,000	17.3	60,000	5.5	48,000	35.5	60,000	4.3	48,000	21.6	60,000	3.3

Tested in Accordance with ISO 13265-1

Ground Loop Heat Pump ratings based on 15% methanol antifreeze solution

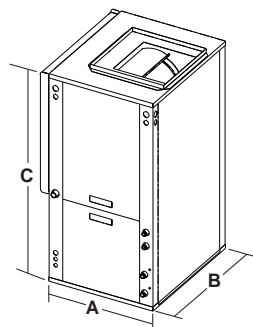
All ratings based upon operation at lower voltage of dual voltage rated models

Dimensional Data

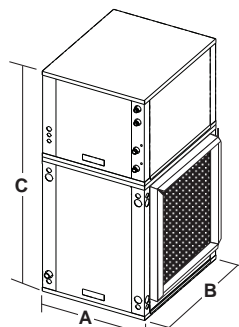
Vertical Upflow Model		Overall Cabinet		
		A Width	B Depth	C Height
0930	in	22.4	25.6	52.0
	cm	56.8	65.1	132.1
1860	in	25.4	30.6	56.0
	cm	64.5	77.8	142.2

Vertical Downflow Model		Overall Cabinet		
		A Width	B Depth	C Height
0930	in	22.4	25.6	56.0
	cm	56.8	65.1	142.2
1860	in	25.4	30.6	60.0
	cm	64.5	77.8	152.4

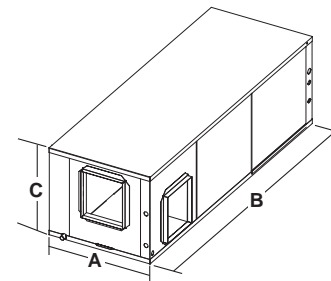
Horizontal Model		Overall Cabinet		
		A Width	B Depth	C Height
0930	in	22.5	62.2	22.3
	cm	57.2	158.0	56.6
1860	in	25.4	76.2	22.3
	cm	64.5	193.5	56.6



Vertical Upflow Model



Vertical Downflow Model



Horizontal Model



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