

# Trilogy<sup>®</sup> 45 Q-Mode<sup>®</sup> (QE)



## Features

- 1 Q-Mode<sup>®</sup> lowers operating costs by providing year-round, full-time domestic water heating at high efficiency in all four operating modes: space cooling, space heating, hot water generation while space cooling and hot water generation.
- 2 Exclusive iGate<sup>®</sup> 2.0 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. The Trilogy 45 unit combined with the iGate Smart Tank is capable of storing water up to 135F (57C) degrees.
- 4 The iGate 2.0 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<sup>®</sup> 45 Q-Mode<sup>®</sup> is the first geothermal heat pump ever certified by AHRI to exceed 45 EER. Trilogy Q-Mode far exceeds the capabilities of any other HVAC unit on the market today.

- Fully variable system driven by a variable speed compressor, variable speed blower fan and variable speed loop pump.
- Q-Mode, the only system that provides year round full-time domestic water heating, plus space heating and cooling and free space cooling while generating hot water.
- Web-enabled configuration and diagnostics allow dealers to access the Trilogy<sup>®</sup> real-time data and fault information and make changes to the configuration of the unit from any web-enabled device.



- 5 vFlow<sup>®</sup> Variable Water Flow with variable speed pump delivers the precise amount of water flow required for peak performance, providing further savings.
- 6 Optional iGate ClimaZone<sup>®</sup> allows you to direct your heating and cooling needs to designated zones providing optimal comfort for the complete home.

## Application Flexibility

- Micro-channel 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<sup>®</sup> air cleaner for high quality indoor air
- Swing-out/drop-out control box design provides wide-open service access
- Available in horizontal, vertical upflow and vertical downflow configurations

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## Performance and Specifications

### Trilogy<sup>®</sup> 45 QE ISO Ratings

AHRI/ISO/ASHRAE 13256-1

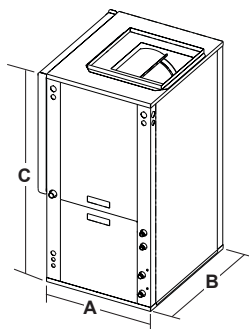
Model	Capacity Modulation	Water Loop Heat Pump				Ground Loop Heat Pump			
		Cooling 86°F		Heating 68°F		Cooling Full Load 77°F Part Load 68°F		Heating Full Load 32°F Part Load 41°F	
		Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
VE0930	Part 1	9,000	24.1	12,000	8.7	9,000	43.2	12,000	5.1
	Part 2	12,000	23.6	18,000	8.1	12,000	44.3	18,000	4.9
	Part 3	18,000	21.4	24,000	7.4	18,000	37.2	24,000	4.6
	Full	24,000	19.3	30,000	6.6	24,000	24.3	30,000	3.6
VE1860	Part 1	18,000	25.2	24,000	8.6	18,000	45.1	24,000	5.1
	Part 2	24,000	24.4	36,000	7.6	24,000	43.0	36,000	4.7
	Part 3	36,000	20.8	48,000	6.6	36,000	35.2	48,000	4.2
	Full	48,000	17.3	60,000	5.5	48,000	21.6	60,000	3.3



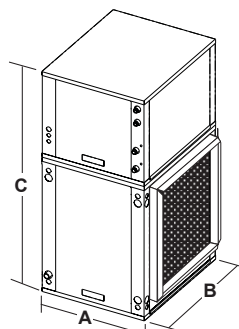
Tested in Accordance with ISO 13265-1  
 Ground Loop Heat Pump ratings based on 15% methanol antifreeze solution  
 All ratings based upon operation at lower voltage of dual voltage rated models

### Dimensional Data

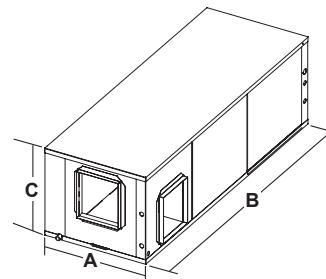
Vertical Upflow Model		Overall Cabinet			Vertical Downflow Model		Overall Cabinet			Horizontal Model		Overall Cabinet		
		A Width	B Depth	C Height			A Width	B Depth	C Height			A Width	B Depth	C Height
0930	in	22.4	25.6	52.0	0930	in	22.4	25.6	56.0	0930	in	22.5	62.2	22.3
	cm	56.8	65.1	132.1		cm	56.8	65.1	142.2		cm	57.2	158.0	56.6
1860	in	25.4	30.6	56.0	1860	in	25.4	30.6	60.0	1860	in	25.4	76.2	22.3
	cm	64.5	77.8	142.2		cm	64.5	77.8	152.4		cm	64.5	193.5	56.6



Vertical Upflow Model



Vertical Downflow Model



Horizontal Model



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