

# Trilogy<sup>®</sup> 45 (VE)



Trilogy 45 (VE), provides sustainable comfort delivering intelligent energy savings at the highest efficiencies ever recorded.

The Trilogy 45 (VE) is the first geothermal heat pump ever certified by AHRI to exceed 45 EER. Trilogy<sup>®</sup> units far exceed the capabilities of any other HVAC unit on the market today with 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. The MOST INTELLIGENT residential geothermal heating and cooling system with advanced monitoring and diagnostics.
3. 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.
4. vFlow<sup>®</sup> Internal Water Flow delivers 70 – 80% pumping energy savings in part load vs single-speed flow centers.

The Trilogy 45 (VE) is for use in applications where domestic hot water generation is not a requirement. For hot water applications consider the Q-Mode<sup>®</sup> option found in the Trilogy 45 (QE).

The Trilogy (VE) is a packaged water-to-air geothermal system that far exceeds ENERGY STAR<sup>®</sup> Tier 3 efficiency levels.

## Features

- 1 Exclusive iGate<sup>®</sup> Connect Two-Way Communicating Controls use the power of two-way communication to configure, monitor and diagnose your system remotely.
- 2 vFlow<sup>®</sup> Internal Variable Water Flow System with Variable Speed Internal Flow Center for optimized efficiency and reliability.
- 3 Variable Speed Compressor with dual-level isolation for ultra-quiet and high-efficiency operation.
- 4 PC Service Tool Diagnostic Port. Takes diagnosing geothermal units to the next level of access and simplicity by providing a dashboard of system fault information on the thermostat and dealer portal.
- 5 iGate<sup>®</sup> 2.0 Connect Smart Thermostat. Features an easy to read high resolution color touch screen display. Control your unit from the thermostat, via the web, or directly from the myUplink app on your smart device.
- 6 Optional iGate<sup>®</sup> ClimaZone<sup>™</sup> allows you to direct your heating and cooling needs to designated zones providing optimal comfort for the complete home.

## Application Flexibility

- Inverter driven variable speed compressor delivers the precise amount of heating and cooling for high efficiency and comfort.
- Emerson<sup>®</sup> UltraTech<sup>®</sup> variable-speed communicating fan motor uses minimum energy (watts) to deliver maximum comfort and energy savings for lower energy bills.
- Micro-channel air coil for better thermal performance and corrosion resistance.
- 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.
- Two-section swing-out/drop-out control box design provides wide-open service access.
- Designed for External P-trap to eliminate internal drain-line cleanouts.

CLIMATEMASTER<sup>®</sup> GEOTHERMAL HEATING AND COOLING

DECLARE YOUR PERSONAL ENERGY INDEPENDENCE

# Trilogy® 45 (VE)

## Performance and Specifications

### Trilogy® 45 (VE) 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

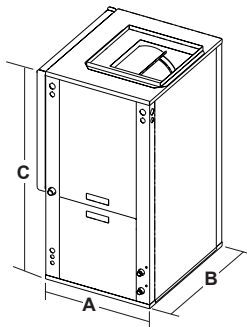
All ratings based upon operation at lower voltage of dual voltage rated models

### Dimensional Data

Vertical Upflow Model		Overall Cabinet		
		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

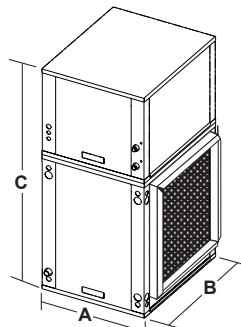
Vertical Downflow Model		Overall Cabinet		
		A Width	B Depth	C Height
0930	in	22.4	25.6	56.0
	cm	56.8	65.1	142.2
1860	in	25.4	30.6	60.0
	cm	64.5	77.8	152.4

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



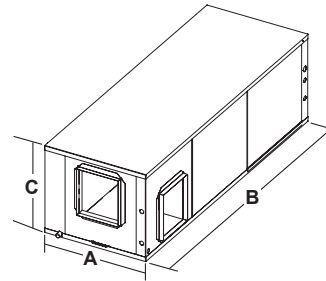
Vertical Upflow Model

Available with left or right hand return



Vertical Downflow Model

Available with left or right hand return



Horizontal Model

Available with left or right hand return, straight through or back supply air



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