

TRANQUILITY 27[®] TWO-STAGE (TT)



Features

- 1 Copeland™ Ultra-Tech™ Two-Stage Unloading Scroll Compressor
- 2 Variable speed ECM fan motor adapts to various duct systems
- 3 Tin Plated Air Coil- Long Life, Easy Cleaning and Better Condensate Runoff
- 4 Foil Faced Insulation in the Blower Section, Fully Insulated Compressor Section
- 5 Two Inch Filter Frame With High Performance MERV 11 Pleated Air Filter
- 6 Stainless Steel Drain Pan for Long Life
- 7 Unit Performance Sentinel: Automatic Alert System Lets You Know if the System is Not Running At Peak Performance*
- 8 Dual Level Compressor Isolation for Ultra Quiet Operation
- 9 Five Easy, Lift-out Service Access Panels with Stainless Steel Front Panels
- 10 Internally Trapped Condensate Piping

* When installed with a ClimateMaster Residential Thermostat.

The Tranquility 27 with a two-stage compressor and variable speed fan offers the latest in geothermal heat pump technology. These systems are so sophisticated they automatically adjust to provide the optimum, consistent indoor air temperatures regardless of the weather extremes.

The Tranquility 27 Series was designed for both new construction and retrofit applications. The Narrow cabinet design for easy movement through doorways, crawl spaces and attic access.

At 27-31 EER, the Tranquility 27 series has some of the industry's high efficiencies.**

*Rated at Ground Loop Conditions ISO 13256-1

**Rated at Ground Water Conditions ISO 13256-1



Application Flexibility

- Five Capacities 026, 038, 049, 064, and 072
- Two-Stage upflow, downflow, and horizontal right or left return
- Extended range operation (20-120°F EWT) and flow rates as low as 1.5 gpm per ton
- Internal electric heat unit (optional) designed for easy field installation
- Circuit breaker protected loop and hot water generator pumps
- Field selectable low-temperature protection setting for GWHP or GLHP
- Among the highest efficiencies in AHRI/ISO/ASHRAE/ANSI 13256-1 ratings for heating COP's, cooling EER's with low water flow rates
- Exceeds federal requirements for 30% tax credit on installation costs
- Exceeds ASHRAE 90.1 and Energy Star 3.0 efficiencies
- Standard 10-year limited warranty on all parts with 5-year labor allowance; Optional additional extended 5-year limited labor allowance available

CLIMATEMASTER[®] GEOTHERMAL HEAT PUMP SYSTEMS

SMART | RESPONSIBLE | COMFORTABLE

Tranquility 27[®] Two-Stage Series (TT)

Performance and Specifications

Tranquility TT ISO Ratings

AHRI/ISO/ASHRAE 13256-1 Data (English (IP) Units)

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
TT026	Full	25,300	15.9	30,800	5.3	28,900	24.5	25,700	4.8	26,600	18.5	19,800	4.0
	Part	19,400	18.3	22,400	6.1	22,200	30.8	18,600	5.1	21,300	26.0	16,500	4.6
TT038	Full	36,200	15.6	44,800	5.3	41,200	23.0	36,700	4.7	38,200	18.2	29,000	4.0
	Part	26,200	18.5	30,800	6.3	30,200	31.5	24,800	5.1	28,900	27.0	22,100	4.5
TT049	Full	48,400	15.7	59,900	5.2	54,600	22.5	48,300	4.7	50,600	17.9	37,500	4.0
	Part	36,100	18.0	44,300	6.2	40,700	28.7	35,400	5.1	39,600	24.9	31,200	4.6
TT064	Full	61,500	15.0	72,300	5.0	68,600	22.0	59,600	4.4	64,800	17.5	48,000	3.9
	Part	44,900	17.6	51,100	5.7	51,900	29.7	41,800	4.7	49,800	25.3	37,500	4.3
TT072	Full	68,700	14.2	88,600	4.9	77,100	19.9	70,200	4.3	71,600	16.2	54,100	3.6
	Part	52,800	16.0	65,200	5.1	59,800	24.5	51,700	4.3	57,700	21.4	45,400	3.9

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
 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
TT026	in	22.4	25.6	48.5
	cm	56.8	65.1	123.2
TT038	in	25.4	30.6	50.5
	cm	64.5	77.8	128.3
TT049	in	25.4	30.6	54.5
	cm	64.5	77.8	138.4
TT064	in	25.4	30.6	58.5
	cm	64.5	77.8	148.6
TT072	in	25.4	30.6	58.5
	cm	64.5	77.8	148.6

Options

	Standard	Factory Option	Dealer Option
Hot Water Generator with Internally Mounted Pump	●		
Cupro-Nickel Coaxial Heat Exchanger		●	
Closed Loop Flow Controller			●
Electronic Auto-Changeover Thermostat with 3-Stage Heat, 2-Stage Cool and Indicator LEDs			●
Hose Kits			●
ClimaDry [®] Whole House Dehumidification		●	
Extended 5-Year Limited Labor Allowance		●	
Internal Electric Heat For Easy Field Installation			●



7300 S.W. 44th Street
 Oklahoma City, OK 73179
 Phone: 405-745-6000
 Fax: 405-745-6058
 climatemaster.com | cmdealernet.com

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Intertek

