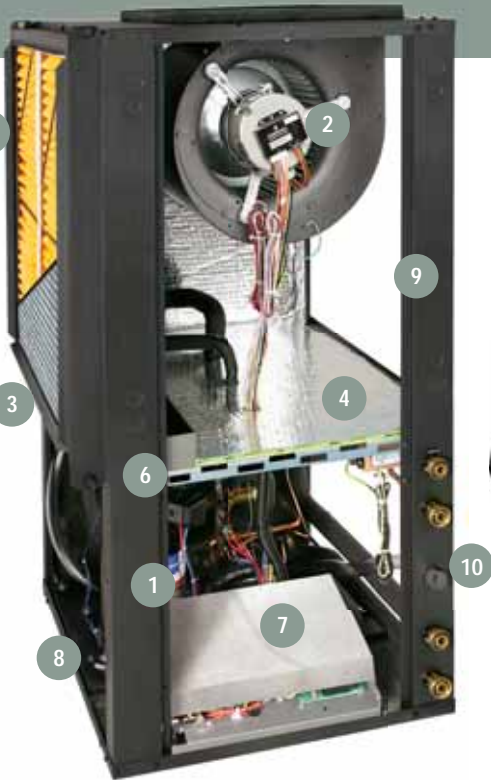


TRANQUILITY® 30 TWO-STAGE (TT)



Features

- 1 Copeland™ Ultra-Tech™ Two-Stage Unloading Scroll Compressor
- 2 Variable speed ECM fan motor adapts to various duct systems
- 3 Tin-Plated Copper or Microchannel Air Coils (038 only) for higher reliability
- 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® 30 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® 30 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 30-35 EER, the Tranquility® 30 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® 30 Two-Stage Series (TT)

Performance and Specifications

Tranquility® TT ISO Ratings

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

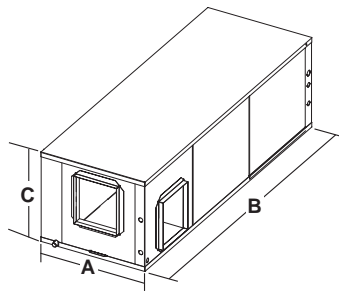
| Model | Capacity Modulation | Water Loop Heat Pump | | | | Ground Water Heat Pump | | | | Ground Loop Heat Pump | | | |
|-------|---------------------|----------------------|------------|---------------|-----|------------------------|------------|---------------|-----|---------------------------------------|------------|---------------------------------------|-----|
| | | 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 | Part | 19,100 | 19.6 | 22,100 | 6.5 | 22,000 | 35.3 | 17,700 | 5.3 | 20,900 | 28.0 | 15,300 | 4.6 |
| | Full | 25,300 | 17.7 | 30,400 | 5.7 | 28,700 | 27.3 | 24,800 | 5.0 | 26,300 | 19.9 | 18,900 | 4.0 |
| TT038 | Part | 27,000 | 19.5 | 31,800 | 6.4 | 31,300 | 34.4 | 26,100 | 5.4 | 30,400 | 29.6 | 23,200 | 4.8 |
| | Full | 38,000 | 17.8 | 45,100 | 5.8 | 43,300 | 27.1 | 37,200 | 5.2 | 39,900 | 20.3 | 29,200 | 4.4 |
| TT049 | Part | 36,500 | 19.4 | 43,600 | 6.3 | 42,000 | 34.3 | 35,000 | 5.1 | 40,300 | 27.9 | 30,100 | 4.4 |
| | Full | 48,700 | 17.3 | 59,700 | 5.5 | 55,800 | 26.1 | 48,400 | 4.8 | 50,800 | 19.3 | 37,200 | 4.0 |
| TT064 | Part | 46,300 | 18.7 | 54,700 | 6.0 | 53,100 | 32.4 | 44,000 | 5.0 | 51,200 | 26.7 | 38,100 | 4.4 |
| | Full | 61,500 | 16.2 | 77,400 | 5.4 | 71,500 | 24.4 | 63,200 | 4.8 | 66,200 | 18.8 | 48,700 | 3.9 |
| TT072 | Part | 53,000 | 16.8 | 64,600 | 5.2 | 60,800 | 28.6 | 53,200 | 4.5 | 58,100 | 23.2 | 46,000 | 3.9 |
| | Full | 68,300 | 15.1 | 85,300 | 4.8 | 77,700 | 22.5 | 71,400 | 4.4 | 71,700 | 16.9 | 55,800 | 3.7 |

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

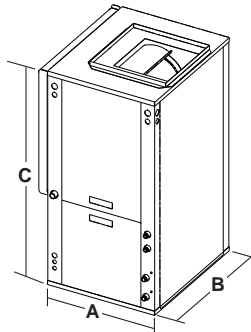
Ground Loop Heat Pump ratings based on 15% methanol antifreeze solution
All ratings based upon operation at lower voltage of dual voltage rated models

Dimensional Data

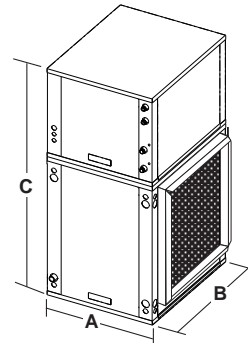
| Horizontal Model | | Overall Cabinet | | | Vertical Upflow Model | | Overall Cabinet | | | Vertical Downflow Model | | Overall Cabinet | | |
|------------------|----|-----------------|---------|----------|-----------------------|----|-----------------|---------|----------|-------------------------|----|-----------------|---------|----------|
| | | A Width | B Depth | C Height | | | A Width | B Depth | C Height | | | A Width | B Depth | C Height |
| TT026 | in | 22.4 | 62.2 | 19.3 | TT026 | in | 22.4 | 25.6 | 48.5 | TT026 | in | 22.4 | 25.6 | 52.5 |
| TT038 | in | 25.4 | 71.2 | 21.3 | TT038 | in | 25.4 | 30.6 | 50.5 | TT038 | in | 25.4 | 30.6 | 54.5 |
| TT049 | in | 25.4 | 76.2 | 21.3 | TT049 | in | 25.4 | 30.6 | 54.5 | TT049 | in | 25.4 | 30.6 | 58.5 |
| TT064 | in | 25.4 | 81.2 | 21.3 | TT064 | in | 25.4 | 30.6 | 58.5 | TT064 | in | 25.4 | 30.6 | 62.5 |
| TT072 | in | 25.4 | 81.2 | 21.3 | TT072 | in | 25.4 | 30.6 | 58.5 | TT072 | in | 25.4 | 30.6 | 62.5 |



Horizontal Model



Vertical Upflow Model



Vertical Downflow Model



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Intertek

