



TRANQUILITY TRC SERIES

  
**CLIMATEMASTER**<sup>®</sup>  
Water-Source Heat Pump Systems

# TRANQUILITY CONSOLE (TRC) SERIES



The Tranquility Console (TRC) Series provides a high efficiency WSHP “ductless” solution for spaces where individual, quiet control of the heating and cooling system is important. Tranquility Console Series units are especially ideal where ceiling height and space are limited, or when preserving the integrity of an existing structure. The Tranquility Console Series exceeds ASHRAE 90.1 efficiencies, yet maintains small cabinet dimensions. Using EarthPure® (HFC-410A) refrigerant, the Tranquility Console Series not only protects the environment, it does so while delivering unprecedented comfort, efficiency, and reliability.

## UNIT FEATURES

- Sizes 09 (3/4 ton, 2.6 kW) through 18 (1-1/2 ton, 5.3 kW)
- Environmentally-friendly EarthPure® (HFC-410A) zero ozone depletion refrigerant
- Two-piece chassis/cabinet design
- Slope top with aluminum rigid bar supply air grille and aluminum control door
- TXV metering device
- Extended range (20 to 120°F, -6.7 to 48.9°C) operation
- Advanced digital auto or manual change-over unit mounted control with temperature display, speed selection and fault indication
- Remote-mounted control available
- Microprocessor controls standard (optional DXM and/or DDC controls)
- LonWorks, BACnet, Modbus and Johnson N2 compatibility options for DDC controls
- Right or left-hand piping arrangement
- Front or bottom return air
- Unit Performance Sentinel performance monitoring system
- Eight safeties standard
- Wide variety of options including e-coated air coils and UltraQuiet construction

Advanced digital controls with Remote Service Sentinel. (Optional Enhanced controls (DXM) & DDC Controllers)



Unit mounted digital control available in manual and auto changeover



Optional motorized damper for outside air intake for improved air quality



Optional insulated water circuit for extended range applications



## PERFORMANCE AND SPECIFICATIONS

### AHRI/ISO/ASHRAE 13256-1 Data (English (IP) Units & Metric (SI) Units)

Model	Refrigerant	Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
		Cooling 86°F [30°C]		Heating 68°F [20°C]		Cooling 59°F [15°C]		Heating 50°F [10°C]		Cooling 77°F [25°C]		Heating 32°F [0°C]	
		Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
		Btuh [kW]	Btuh/W [W/W]	Btuh [kW]		Btuh [kW]	Btuh/W [W/W]	Btuh [kW]		Btuh/W [W/W]	Btuh [kW]	Btuh/W [W/W]	
TRC-09	HFC-410A	8,600 [2.52]	13.3 [3.9]	11,400 [3.34]	4.6	9,200 [2.70]	18.6 [5.5]	9,500 [2.78]	4.0	8,800 [2.58]	14.9 [4.4]	7,300 [2.14]	3.3
TRC-12	HFC-410A	11,300 [3.31]	13.3 [3.9]	14,900 [4.37]	4.9	12,500 [3.66]	18.7 [5.5]	12,100 [3.55]	4.1	11,800 [3.46]	15.1 [4.4]	9,300 [2.73]	3.3
TRC-15	HFC-410A	14,100 [4.13]	13.5 [4.0]	18,200 [5.33]	5.1	16,600 [4.87]	21.3 [6.2]	14,800 [4.34]	4.3	15,100 [4.43]	15.8 [4.6]	11,400 [3.34]	3.5
TRC-18	HFC-410A	16,200 [4.57]	13.0 [3.8]	20,100 [5.89]	4.5	17,600 [5.16]	19.5 [5.7]	16,500 [4.84]	4.0	16,500 [4.84]	15.0 [4.4]	13,200 [3.87]	3.4

Cooling capacities based upon 80.6°F [27°C] DB, 66.2°F [19°C] WB entering air temperature.

Heating capacities based upon 68°F [20°C] DB, 59°F [15°C] WB entering air temperature.

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

#### Dimensional Data

Model		Overall Cabinet		
		W	D	H
5" [12.7] Subbase	in.	48	12	26
	cm	121.9	30.5	66.0
No Subbase	in.	48	12	21
	cm	121.9	30.5	53.3

#### Voltage Options

Model	Volts	Hz	Phase
09-12	115	60	1
	208/230	60	1
	265	60	1
15-18	208/230	60	1
	265	60	1

Note: Add 6" [15.2cm] to width for size 18.



## UNIT FEATURES

Product Series	Standard Features										Factory Installed Options																	
	EarthPure® (HFC-410A) Refrigerant	Microprocessor CXM Controls*	Standard Range	Copper Water Coil**	TXV	Dual Level Compressor Vibration Isolation	Field Convertible Discharge (Horizontal Units)	Multiple Access Panels for Installation and Service Ease	Scroll Compressors	Factory Installed Hanger Brackets (Horizontal Units)	Remote Reset at Thermostat	Condensate Overflow Protection	Cupro-Nickel Coil	High Static Blower	UltraQuiet (Mute) Package	Extended Range (20 to 120°F) †	Auto-Flow Water Regulation	Two-Way Control Valve	Downflow Configuration	Desuperheater Coil	DDC Controller	Deluxe DXM Controller	E-Coated Air Coil	Internal Secondary Pump	ECM Fan***	Climadry Reheat	Internal Service Disconnect	
Tranquility 27® Two-Stage (TT)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tranquility 20 Single-Stage (TS)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tranquility High Efficiency (TR)	•	•	•	•	•	•	•	a	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tranquility 16 Compact (TC)	•	•	•	•	•	•	•	a	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tranquility Vertical Stack (TRM)	•	•	•	•	•	•	•	a	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tranquility Console (TRC)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tranquility Compact (TCH)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tranquility Large (TL)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	c	•
Tranquility Water-to-Water (TMW)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	b	•	•	•	•	•	•	•	•	•	•
Rooftop (TRE)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Rx Energy Recovery Ventilator (ERV)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Vertical Dedicated Outdoor Air (TO)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	†	•	•	•	•	•	•	•	•	•	•	•	•	•
Horizontal Dedicated Outdoor Air (TO)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	†	•	•	•	•	•	•	•	•	•	•	•	•	•

\* Standard control for TO Series is DDC with modulating HGR.  
 \*\* Standard water coil construction for TO Series is stainless steel.  
 \*\*\* Standard on TT Series  
 † Standard on TMW Series  
 † Extended Range = 35°F–95°F EWT  
 a Sizes 024 and above  
 b Sizes 036 - 120  
 c Vertical series only



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

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