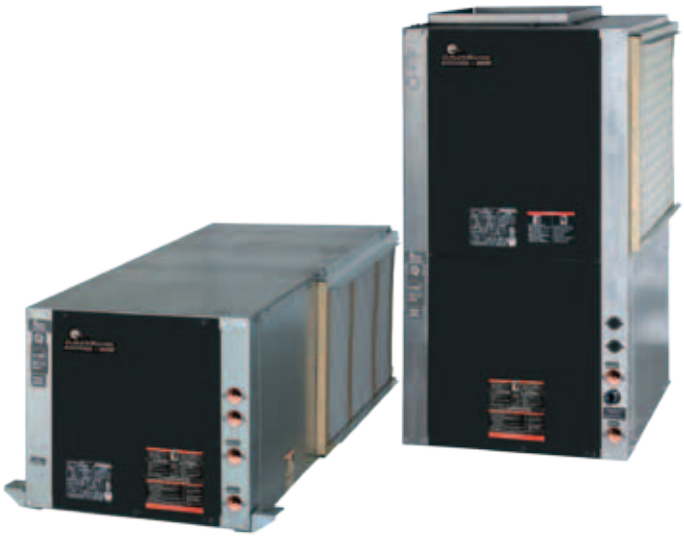
THE TRANQUILITY HIGH EFFICIENCY (TR) SERIES



The Tranquility High Efficiency (TR) Series offers high efficient performance in a simple cabinet design.

The Tranquility High Efficiency Series also offers options that allow for application flexibility. Available options include ClimaDry™ dehumidification, hot water generator, enhanced controls, coated air coils, extended range insulation, UltraQuiet package, secondary circulating pump, motorized water valve, automatic water flow valves and high static blowers.

UNIT FEATURES

- Sizes 006 (1/2 ton, 1.8 kW) through 060 (5 tons, 17.6 kW)
- Exceeds ASHRAE 90.1 efficiencies
- Galvanized steel construction with attractive matte black epoxy powder coat paint front access panel
- Epoxy powder painted galvanized steel drain pan
- Sound absorbing glass fiber insulation
- Unique double isolation compressor mounting for quiet operation
- Insulated divider and separate compressor/air handler compartments
- Copeland scroll compressors (Size 018 and above)
- Microprocessor controls standard (optional DXM and/or DDC controls)
- Field convertible discharge air arrangement for horizontal units
- PSC three-speed fan motor
- Internally trapped condensate drain line (vertical units only)
- Eight safeties standard
- Extended range (20 to 120°F, -6.7 to 48.9°C) capable

Easy to remove blower housing for quick service and PSC three-speed fan motor

Easy service access from multiple sides

Dual compressor vibration isolation for quiet operation

Easy access control box contains advanced digital controls with Remote Service Sentinel Optional Enhanced controls (DXM) & DDC Controllers

Factory installed hanger brackets on horizontal units

Epoxy powder painted drain pan with condensate overflow protection

PERFORMANCE AND SPECIFICATIONS

AHRI/ISO/ASHRAE 13256-1 Data (English (I-P) Units & Metric (S-I) 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 [kW]	Btuh/W [W/W]	Btuh [kW]	
TR-006	HFC-410A	5,800 [1.70]	13.2 [3.9]	7,500 [2.20]	4.7	6,900 [2.02]	21.1 [6.2]	6,200 [1.82]	4.0	6,200 [1.82]	15.4 [4.5]	4,900 [1.44]	3.4
TR-009	HFC-410A	8,800 [2.58]	13.4 [3.9]	11,600 [3.40]	4.2	10,100 [2.96]	21.0 [6.2]	9,800 [2.87]	3.9	9,300 [2.72]	15.7 [4.6]	7,900 [2.31]	3.4
TR-012	HFC-410A	11,700 [3.43]	13.5 [4.0]	15,200 [4.45]	4.3	13,700 [4.01]	20.8 [6.1]	12,500 [3.66]	3.8	12,000 [3.52]	14.9 [4.4]	9,900 [2.90]	3.2
TR-015	HFC-410A	14,500 [4.25]	15.4 [4.5]	17,300 [5.07]	5.0	16,800 [4.92]	24.5 [7.2]	14,400 [4.22]	4.4	15,000 [4.39]	17.2 [5.0]	11,100 [3.25]	3.6
TR-018	HFC-410A	17,300 [5.07]	14.3 [4.2]	21,500 [6.30]	5.0	20,600 [6.04]	24.2 [7.1]	17,200 [5.04]	4.4	18,400 [5.39]	16.3 [4.8]	13,900 [4.07]	3.4
TR-024	HFC-410A	23,700 [6.94]	13.4 [3.9]	28,500 [8.35]	4.7	26,700 [7.82]	20.9 [6.1]	24,000 [7.03]	4.1	24,900 [7.30]	15.4 [4.5]	18,500 [5.42]	3.3
TR-030	HFC-410A	28,100 [8.23]	13.4 [3.9]	35,100 [10.28]	4.6	31,700 [9.29]	20.1 [5.9]	29,600 [8.67]	4.1	28,900 [8.47]	15.1 [4.4]	23,400 [6.86]	3.4
TR-036	HFC-410A	34,500 [10.11]	13.5 [4.0]	45,200 [13.24]	4.4	38,700 [11.34]	20.7 [6.1]	37,500 [10.99]	4.0	35,300 [10.34]	14.9 [4.4]	29,600 [8.67]	3.3
TR-042	HFC-410A	40,100 [11.75]	13.1 [3.8]	52,700 [15.44]	4.3	45,900 [13.45]	19.6 [5.7]	44,000 [12.89]	3.8	40,500 [11.87]	14.4 [4.2]	34,300 [10.05]	3.2
TR-048	HFC-410A	47,700 [13.98]	13.3 [3.9]	55,900 [16.38]	4.7	54,300 [15.91]	20.5 [6.0]	46,500 [13.62]	4.1	49,000 [14.36]	14.7 [4.3]	36,400 [10.67]	3.4
TR-060	HFC-410A	59,400 [17.40]	13.4 [3.9]	77,000 [22.58]	4.3	66,600 [19.51]	19.9 [5.8]	64,000 [18.75]	3.8	60,100 [17.61]	14.8 [4.3]	50,500 [14.80]	3.1

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.

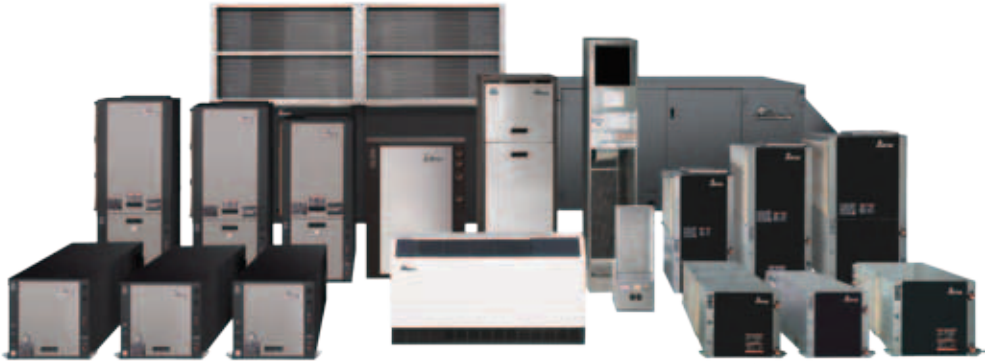
Dimensional Data

Vertical Upflow Model		Overall Cabinet		
		W	D	H
006 - 012	in.	22.5	21.3	22.5
	cm	57.2	54.1	57.2
015 - 030	in.	22.4	22.4	40.5
	cm	56.9	56.9	102.9
036 - 042	in.	22.4	25.4	46.5
	cm	56.9	64.5	118.1
048 - 060	in.	25.4	29.1	50.5
	cm	64.5	73.9	128.3

Horizontal Model		Overall Cabinet		
		W	D	H
006 - 012	in.	22.5	40.3	11.5
	cm	57.2	102.4	29.2
015 - 030	in.	22.4	48.3	17.5
	cm	56.9	122.7	44.5
036 - 042	in.	22.4	53.1	21.3
	cm	56.9	134.9	54.1
048 - 060	in.	25.4	67.9	21.3
	cm	64.5	172.5	54.1

Voltage Options

Model	Volts	Hz	Phase
006 - 024	208/230	60	1
	265	60	1
030 - 036	208/230	60	1
	265	60	1
	208/230	60	3
	460	60	3
042 - 060	208/230	60	1
	208/230	60	3
	460	60	3
	575	60	3



UNIT FEATURES

Product Series	Standard Features												Factory Installed Options														
	EarthPure® (HFC-410A) Refrigerant	Microprocessor CXM Controls*	Standard Entering Water Temperature Range (60 to 95°F)	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 Entering Water Temperature Range (20 to 120°F) ‡	Auto-Flow Water Regulation	Two-Way Control Valve	Downflow Configuration	Desuperheater Coil	DDC Controller	Deluxe DXM Controller	Coated Air Coil	Internal Secondary Pump	Fan Motor***	ClimaDry Reheat	Internal Service Disconnect
Tranquility 27® Two-Stage (TT)	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•
Tranquility 20 Single-Stage (TS)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Tranquility High Efficiency (TR)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•		•	
Tranquility 16 Compact (TC)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					•	•	•				
Tranquility Vertical Stack (TRM)	•	•	•	•	•	•			•		•	•	•		•	•	•	•			•	•	•	•			•
Tranquility Vertical Stack (TRW)	•		•		•	•			•		•	•			•		•				•	•	•				•
Tranquility Console (TRC)	•	•	•	•	•						•	•	•		•	•	•	•			•	•	•	•			•
Tranquility Compact Horizontal (TCH)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					•	•	•				
Tranquility Large Vertical (TLV)	•	•	•	•	•			•	•		•	•	•	•	•	•	•	•			•	•	•	•		•	
Tranquility Water-to-Water (TMW)	•	•	•	•	•	•		•	•		•		•		•	•				•	•	•					
Rooftop (TRE)	•	•	•	•	•	•		•	•		•	•	•	•		•	•	•	•		•	•	•	•		•	
Rx Energy Recovery Ventilator (ERV)			•					•																			
Vertical Dedicated Outdoor Air (TOV)	•		•	•	•			•	•						•	†					•		•				
Horizontal Dedicated Outdoor Air (TOH)	•		•	•	•			•	•					•		†				•	•		•				

Some exceptions may apply to standard features and options, consult product submittal materials to determine availability.

* 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

Regina Geothermal SOLAR
www.reginageo.com
Phone: 306.522.5326
email: info@reginageo.com

CLIMATEMASTER®
Water-Source Heat Pump Systems
7300 S.W. 44th Street
Oklahoma City, OK 73179
Phone: 405-745-6000
Fax: 405-745-6058
climatemaster.com