





TRANQUILITY® 30 SERIES

THE TRANQUILITY[®] 30 TWO-STAGE (TT) SERIES



The Tranquility[®] 30 Two-Stage (TT) Series blends the most advanced technology with the most advanced design to create some of the highest efficiency water-source heat pumps available today.

The Tranquility[®] 30 Two-Stage Series utilizes EarthPure[®] (HFC-410A) refrigerant along with the Copeland UltraTech™ two-stage compressor and ECM variable speed motor to bring unmatched performance and comfort.

UNIT FEATURES

- Sizes 026 (2 ton, 7.0 kW) through 072 (6 ton, 21.1 kW)
- Environmentally-friendly EarthPure[®] HFC-410A refrigerant
- Unsurpassed efficiencies (far exceeds ASHRAE 90.1)
- Copeland UltraTech two-stage compressor and variable speed ECM fan motor
- Galvanized steel construction and powder coat paint on all units
- Unique double isolation compressor mounting for quiet operation
- Discharge muffler standard on all sizes for superior sound attenuation
- Microprocessor controls standard (optional DXM and/or DDC controls)
- Field convertible discharge air arrangement for horizontal units
- Bi-directional, balanced port expansion valve refrigerant metering device standard
- Standard range or extended range operation
- Water connections securely mounted flush to the cabinet corner post (no backup wrench required)
- Eight safeties standard

Easy to remove blower housing for quick service and ECM variable speed motor

Foil faced insulation in the blower section and fiberglass insulation in the compressor section



Copeland UltraTech™ two-stage compressor with dual compressor vibration isolation

Easy service access from multiple sides

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

Standard stainless steel insulated drain pan with condensate overflow protection







PERFORMANCE AND SPECIFICATIONS

		W	ater Loop He	eat Pump		Gr	ound Water H	leat Pump	Ground Loop Heat Pump								
		Cooling 86°l	= [30°C]	Heating 68°F [20°C]	Cooling 59°	F [15°C]	Heating 50°F [10°C]	Cooling 77°I	= [25°C]	Heating 32°F [0°C]					
Model	Refrigerant	Capacity	Capacity EER			Capacity	EER	Capacity		Capacity	EER	Capacity					
		Btuh [kW]	Btuh/W [W/W]	Btuh [kW]	СОР	Btuh [kW]	Btuh/W [W/W]	Btuh [kW]	СОР	Btuh [kW]	Btuh/W [W/W]	Btuh [kW]	СОР				
TT-026	HFC-410A	19,100 [5.60]	19.6 [5.7]	22,100 [6.48]	6.5	22,000 [6.45]	35.3 [10.3]	17,700 [5.19]	5.3	20,900 [6.13]	28.0 [8.2]	15,300 [4.48]	4.6				
TT-038	HFC-410A	27,000 [7.91]	19.5 [5.7]	31,800 [9.32]	6.4	31,300 [9.17]	34.4 [10.1]	26,100 [7.65]	5.4	30,400 [8.91]	29.6 [8.7]	23,200 [6.80]	4.8				
TT-049	HFC-410A	36,500 [10.70]	19.4 [5.7]	43,600 [12.78]	6.3	42,000 [12.31]	34.3 [10.01]	35,000 [10.26]	5.1	40,300 [11.81]	27.9 [8.2]	30,100 [8.82]	4.4				
TT-064	HFC-410A	46,300 [13.57]	18.7 [5.5]	54,700 [16.03]	6.0	53,100 [15.56]	32.4 [9.5]	44,000 [12.90]	5.0	51,200 [15.01]	26.7 [7.8]	38,100 [11.17]	4.4				
TT-072	HFC-410A	53,000 [15.53]	16.8 [4.9]	64,600 [18.93]	5.2	60,800 [17.82]	28.6 [8.4]	53,200 [15.59]	4.5	58,100 [17.03]	23.2 [6.8]	46,000 [13.48]	3.9				

Part Load AHRI/ISO/ASHRAE 13256-1 Data (English (I-P) Units & Metric (S-I) Units)

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.

Full Load AHRI/ISO/ASHRAE 13256-1 Data (English (I-P) Units & Metric (S-I) Units)

		W	/ater Loop He	eat Pump		Gro	ound Water H	leat Pump	Ground Loop Heat Pump										
		Cooling 86°	F [30°C]	Heating 68°F [20°C]	Cooling 59°l	= [15°C]	Heating 50°F [10°C]	Cooling 77°l	F [25°C]	Heating 32°F	[0°C]						
Model	Refrigerant	Capacity	EER	W Btuh COP		Capacity	EER	Capacity	Capacity		EER	Capacity							
		Btuh [kW]	Btuh/W [W/W]			Btuh [kW]	Btuh/W [W/W]	Btuh [kW]	СОР	Btuh [kW]	Btuh/W [W/W]	Btuh [kW]	СОР						
TT-026	HFC-410A	25,300 [7.42]	17.7 [5.2]	30,400 [8.91]	5.7	28,700 [8.41]	27.3 [8.0]	24,800 [7.27]	5.0	26,300 [7.71]	19.9 [5.8]	18,900 [5.54]	4.0						
TT-038	HFC-410A	38,000 [11.14]	17.8 [5.2]	45,100 [13.22]	5.8	43,300 [12.69]	27.1 [7.9]	37,200 [10.90]	5.2	39,900 [11.69]	20.3 [5.9]	29,200 [8.56]	4.4						
TT-049	HFC-410A	48,700 [14.27]	17.3 [5.1]	59,700 [17.50]	5.5	55,800 [16.35]	26.1 [7.6]	48,400 [14.19]	4.8	50,800 [14.89]	19.3 [5.7]	37,200 [10.90]	4.0						
TT-064	HFC-410A	61,500 [18.02]	16.2 [4.7]	77,400 [22.68]	5.4	71,500 [20.96]	24.4 [7.2]	63,200 [18.52]	4.8	66,200 [19.40]	18.8 [5.5]	48,700 [14.27]	3.9						
TT-072	HFC-410A	68,300 [20.02]	15.1 [4.4]	85,300 [25.00]	4.8	77,700 [22.77]	22.5 [6.6]	71,400 [20.93]	4.4	71,700 [21.01]	16.9 [5.0]	55,800 [16.35]	3.7						

Dimensional Data

Vertica	l Upflow	Ov	erall Cab	inet
Mo	odel	W	D	Н
026	in.	22.4	25.6	48.5
	cm	56.8	65.1	123.2
038	in.	25.4	30.6	50.5
	cm	64.5	77.8	128.3
049	in.	25.4	30.6	54.5
	cm	64.5	77.8	138.4
064	in.	25.4	30.6	58.5
	cm	64.5	77.8	148.6
072	in.	25.4	30.6	58.5
	cm	64.5	77.8	148.6

in. 22.4 62.2 19.3 cm 56.8 158.0 48.9 21.3 54.0 25.4 71.2 in. 64.5 180.8 cm in. 25.4 76.2 21.3 193.5 cm 64.5 54.0 81.2 206.2 21.3 54.0 25.4 in. 64.5 cm 21.3 54.0 in. 25.4 81.2 cm 64.5 206.2

Voltage Options

Model	Volts	Hz	Phase
026	208/230	60	1
	265	60	1
	208/230	60	3
	460	60	3
038 - 072	208/230	60	1
	208/230	60	3
	460	60	3

Note: Add 4" [10.16cm] to height for vertical downflow models.



UNIT FEATURES

Standard Features													_			Fa	ctor	y Inst	talle	dО	ptio	ns	_			_							
Product Series	EarthPure® (HFC-410A) Refrigerant	Microprocessor CAM Controls *	Maraprocessor DXM2 Controls	IGate [®] Advanced Control	ECM Pan Motor	Extended Range Capable Refrigerant Circuit (20°F to 120°F)	Copper Water Col **	vFlow® Modulating WaterValve #	VXT	Dual Level Compressor Mbratton Isola ton	Field Convertible Discharge (Horizontal Units)	Multiple Access Panels for Installation and Service Ease	Saral Compressors	Factory Installed Hanger Brackets (Horizontal Units)	Remote Reset at Thermostat	Condensate Overlow Protection	Cupro-Nickel Col **	High Statt: Blower	UltraQuiet (Mute) Padage	Extended Entering Water Temperature Insulation	Auto-Flow Water Regulation	Two-Way Control Valve	Downflow Configuration	Desuperheater Coll	DOC Controller	DKM Controller *	Costed Air Coll	Internal Secondary Pump	ECM Fan Motor	ClimeDry*Reheat	Internal Service Disconnect	vFlow® Modulating Water Valve ‡	vFlow [®] Internal Variable Water Flow Pump
Tranquility® 30 Digital Two-Stage (TE)	•		•	•	•	•	•		ŀ	•	•	•	•	•	•	•	•		•	•			•	•	•		•	•			•	•	•
Tranquility= 30 Two-Stage (TT)	•	•			•	•	•		•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•		•	•		
Tranquility® High Efficiency Two-Stage (TZ)	•		•	•	•	•	•	•	ŀ	•	•	•	•	•	•	•	ŀ		•	•				•	٠		•	•					•
Tranquility= 22 High Efficiency Two-Stage (TY)	٠		•	•	٠	•	•		•	•	•	•	•	•	•	٠	•		•	•					٠		•						
Tranquility [®] 20 Single-Stage (TS)	٠	•				•	•		•	•	•	•	•	•	•	•	•	٠	•	•	٠	•	•	•	٠	•	•	•	•	•	•		
Tranquility® 16 Compact (TC)	٠	•				•	•		•	•	•	•	•	•	•	٠	•	٠	•	•					٠	•	•		•				
Tranquility® High Efficiency (TR)	•	•				•	•		ŀ	•	•	•	•	•	•	•	ŀ	•	•	•	٠	•		•	•	•	•	•	•	•			\square
Tranquility® Vertical Stack (TSM)	•	•				•	•		ŀ	•					•	•	ŀ		•	•	٠	•			٠	•	•	•	•		•		\square
Tranquility® Vartical Stack (TSL)	٠	•				•	•		•	•					•	٠	•		•	•	٠	•			٠	•	•	•	•		•		
Tranquility [®] Large (TL)	•	•				•	•		ŀ			•	•		•	•	•	•	•	•	٠	•			٠	•	•	•		•			
Tranquility* Compact Belt Drive (TC)	٠	•				•	•		•	•	•	•	•	•	•	٠	•	٠	•	•					٠	•	•						
Tranquility [®] Console (TRC)	•	•				•	•		•						•	•	ŀ		•	•	٠	•			٠	•	•	•			•		
Tranquility® Rooftop (TRE)	٠	•				•	•		ŀ	•		•	•		•	•	ŀ	٠		•	٠	•	٠		٠	•	•	٠		٠			
Rx Energy Recovery Ventilator (ERV)						•						•																					
Tranquility* Modular Wates to-Water (TMW)	٠	•				•	•		•	•		•	•		•		•		•	•				•	٠	•							
Vertical Dedicated Outdoor Air (TOV)	•					•	•		•			•	•						•	1					٠		•						
Horizontal Dedicated Outdoor Air (TOH)	٠					•	•		ŀ			•	•					٠		+			•		٠		•						

Some exceptions may apply to standard features and options, consult product submittal materials to determine availability. Control for TO Series is DDC with modulating HGR. Control for TMW 360-600 is DDC.

Water coil construction for TO Series and TMW 360-600 is stainless steel. ---

Standard on TMW Series. ---

Extended Range = 35°F-55°F EWT.
Low system pressure drop valve is a standard feature, high system pressure drop valve is optional.



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



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