

TRANQUILITY® 20 SINGLE-STAGE (TS)



The Tranquility® 20 Series utilizes EarthPure® HFC-410A refrigerant along with advanced scroll compressor technology and microprocessor controls allow the Tranquility® 20 to operate at the most efficient level for all weather conditions.

The Tranquility® 20 Series was designed for both new construction and retrofit applications. The narrow cabinet was designed for easy movement through doorways, crawl spaces, and attic access.

At 20 EER, the Tranquility® 20 has some of the industry's highest single stage efficiency ratings.*

*Rated at ground loop conditions ISO 13256-1



Features

- 1 Copeland™ High Efficiency Scroll Compressor
- 2 Optional variable speed ECM fan motor adapts to various duct systems
- 3 Foil Faced Insulation In The Blower Section, Fully Insulated Compressor Section
- 4 Two Inch Filter Frame With High Performance MERV 11 Pleated Air Filter
- 5 Stainless Steel Drain Pan For Long Life
- 6 Unit Performance Sentinel: Automatic Alert System Lets You Know If The System Is Not Running At Peak Performance*
- 7 Dual Level Compressor Isolation For Ultra Quiet Operation
- 8 Five Easy, Lift-out Service Access Panels with Stainless Steel Front Panels

*When installed with a ClimateMaster Residential Thermostat.

Application Flexibility

- Eight Capacities 018, 024, 030, 036, 042, 048, 060 and 070
- Single-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 single stage ratings for heating COP's, cooling EER's with low water flow rates
- 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 HEATING AND COOLING

DECLARE YOUR PERSONAL ENERGY INDEPENDENCE

Tranquility® 20 Single-Stage Series (TS)

Performance and Specifications

Tranquility® TS ISO Ratings

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

Model	Fan Motor	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 77°F		Heating 32°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
TS018	PSC	18,600	15.0	23,000	5.2	21,300	24.8	18,800	4.5	19,500	18.4	14,500	3.6
	ECM	19,200	16.5	23,300	5.9	22,100	26.3	18,900	4.9	20,200	19.4	14,500	3.9
TS024	PSC	23,800	16.9	30,800	5.9	26,500	26.4	24,100	5.0	25,300	18.9	19,200	4.0
	ECM	23,900	17.9	30,400	6.1	26,900	28.5	23,800	5.2	25,500	20.9	19,100	4.2
TS030	PSC	28,000	16.3	35,500	5.5	31,000	24.9	28,400	4.7	29,200	18.5	22,200	3.9
	ECM	28,000	17.3	35,100	5.8	30,800	26.7	28,000	4.9	29,200	19.4	22,000	4.1
TS036	PSC	33,400	17.0	40,400	5.6	35,400	23.2	33,200	4.7	34,300	19.2	25,900	4.1
	ECM	33,500	18.1	39,900	5.9	35,400	24.9	32,600	4.9	34,600	20.4	25,600	4.3
TS042	PSC	38,500	17.2	46,300	5.6	43,700	25.4	36,200	4.7	40,100	19.4	28,700	3.8
	ECM	39,400	19.6	45,100	6.0	44,400	29.5	35,200	5.2	40,700	21.9	27,400	4.1
TS048	PSC	47,100	14.8	58,000	4.7	53,600	21.3	47,500	4.0	49,600	16.8	36,600	3.4
	ECM	48,900	17.2	57,700	5.2	53,700	23.9	45,700	4.4	50,600	18.8	36,100	3.7
TS060	PSC	62,400	15.9	73,900	5.0	68,500	23.1	58,200	4.2	63,900	17.2	46,900	3.7
	ECM	63,200	17.2	73,200	5.4	68,900	24.9	58,200	4.6	64,400	18.4	46,400	3.9
TS070	ECM	71,100	15.7	82,100	4.6	78,000	21.1	66,100	4.0	72,900	16.2	53,800	3.4

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

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
TS018	in	22.4	25.6	44.6
	cm	56.8	65.1	123.2
TS024-030	in	22.4	25.6	48.5
	cm	56.8	65.1	123.2
TS036	in	25.4	30.6	50.5
	cm	64.5	77.8	128.3
TS042-048	in	25.4	30.6	54.5
	cm	64.5	77.8	138.4
TS060-070	in	25.4	30.6	58.5
	cm	64.5	77.8	148.6

* Add 3" (7.6 cm) for the factory provided 2" air filter support.

Options

	Factory Option	Dealer Option
Hot Water Generator with Internally Mounted Pump	<input type="radio"/>	<input type="checkbox"/>
Cupro-Nickel Coaxial Heat Exchanger	<input type="radio"/>	<input type="checkbox"/>
Closed Loop Flow Controller	<input type="checkbox"/>	<input type="radio"/>
Electronic Auto-Changeover Thermostat with 3-Stage Heat, 2-Stage Cool and Indicator LEDs	<input type="checkbox"/>	<input type="radio"/>
Hose Kits	<input type="checkbox"/>	<input type="radio"/>
Extended 5-Year Limited Labor Allowance	<input type="radio"/>	<input type="checkbox"/>
Internal Electric Heat for Easy Field Installation	<input type="checkbox"/>	<input type="radio"/>



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Engineered and assembled in the USA