



# TRANQUILITY® 18 (SC) COMPACT SINGLE-STAGE SERIES

Sizes: 006-060 | 60 Hz – R-454B



The Tranquility® 18 (SC) Compact Single-Stage Series raises the bar for water-source heat pump efficiencies, features, and application flexibility. Not only does the Tranquility SC exceed ASHRAE 90.1 efficiency standards, but it also uses R-454B low Global Warming Potential (GWP) refrigerant, making it an extremely environmentally friendly space conditioning product solution. Tranquility SC is eligible for LEED® (Leadership in Energy and Environmental Design) points due to its innovative and environmentally-conscious design. With one of the smallest cabinets in the industry, the Tranquility SC easily fits into tight spaces. Designed to be backward compatible with thousands of older water-source heat pumps, the Tranquility SC heat pump is packed full of the innovation you have come to expect from the experts at ClimateMaster.

## The SC Series Advantage

### STANDARD FEATURES

- Sizes 006 (½ ton, 1.8 kW) through 060 (5 tons, 17.6 kW)
- Refrigerant Detection System (RDS) (mandatory on size 060, optional feature for sizes 006-048)
- Communicating CXM2 controls for reduced startup, commissioning, and service time
- Sound-absorbing glass-fiber insulation
- Unique double-isolation compressor mounting for quiet operation
- Field-convertible discharge-air arrangement for horizontal units
- PSC three-speed fan motor (two-speed for 575V)
- Eight Standard Safety Features
- Non-corrosive polymer drain pan

### CONFIGURABLE OPTIONS

- Choice of high efficiency Constant Volume (CV) or Constant Torque (CT) EC motors
- Intelligent communicating DXM2.5 controls for maximized airflow control when paired with CV EC blower motors
- BACnet, Modbus, and Johnson Controls N2 compatibility options for Building Management Systems (BMS)
- UltraQuiet sound-attenuation package
- Easy-to-clean rust-prohibitive stainless-steel drain pans
- Electrical service disconnect
- Extended-range insulation for geothermal applications



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Tested in Accordance with ASHRAE/AHRI/ISO 13256-1 English (I-P) Units

Model Size	Motor Type	Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
		Cooling 86°F		Heating 68°F		Cooling 59°F		Heating 50°F		Full Cooling 77°F		Full 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
006	EC	5,700	14.1	7,400	4.9	6,900	23.4	6,300	4.3	6,000	16.8	4,900	3.5
009	EC	8,500	14.3	11,500	4.6	9,900	24.8	9,500	3.7	8,800	16.6	7,200	3.5
012	EC	11,000	13.5	15,000	4.6	12,500	19.8	12,200	4.0	11,200	14.4	9,200	3.4
015	EC	14,300	16.3	17,100	5.6	16,500	26.2	14,100	4.7	14,800	19.0	11,000	3.8
018	EC	18,700	15.7	21,800	5.5	21,500	24.7	17,800	4.7	19,500	17.9	14,100	3.9
024	EC	24,500	15.0	28,500	5.1	27,800	24.0	24,000	4.5	25,800	18.0	19,000	3.7
030	EC	28,800	14.8	35,400	4.8	32,400	23.1	29,200	4.3	30,100	17.4	23,300	3.7
036	EC	34,200	16.1	44,100	4.9	36,200	25.7	34,000	3.9	33,900	16.7	28,500	3.7
042	EC	41,100	15.4	49,500	4.8	42,700	23.1	40,900	4.2	45,200	17.1	32,700	3.6
048	EC	48,000	15.6	57,900	4.9	53,000	24.0	48,000	4.3	50,400	18.2	38,000	3.6
060	EC	59,800	14.7	70,400	4.6	66,300	20.8	59,200	4.1	61,800	16.5	46,500	3.4

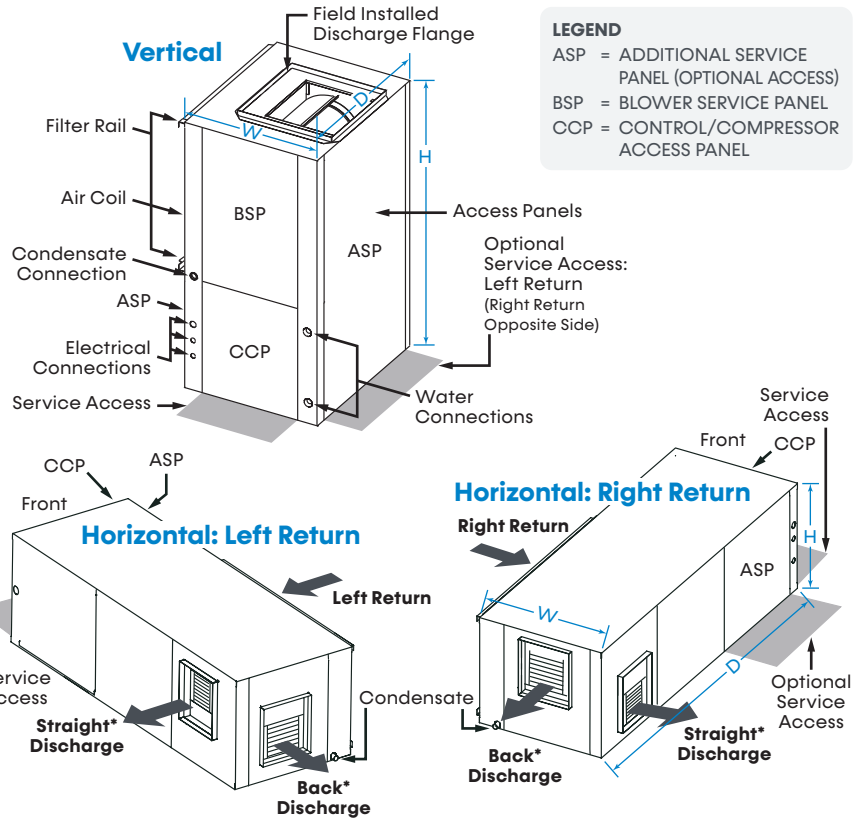
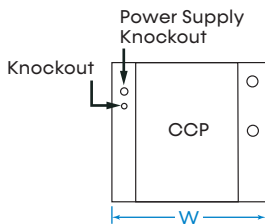
Notes:

- Where dual voltages are available ratings are based on the lower voltage setting.
- 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% antifreeze solution.

## Dimensional Data

Model Size	Cabinet Configuration	Overall Cabinet (inches)		
		Depth D	Width W	Height H
006-012	Vertical	19.1	19.1	22.0
015-018		21.5	21.6	40.0
024-030		21.5	21.6	40.0
036-042		26.0	21.6	45.0
048-060		29.3	25.5	50.5
006-012	Horizontal	34.1	19.1	11.1
015-018		43.0	20.2	18.3
024-030		43.0	20.1	18.3
036-042		47.1	20.1	21.0
048-060		54.1	24.1	21.0
009-012	VT Front/Top	19.1	19.1	22.0
015-030		21.5	21.6	40.0

### Horizontal: Front View



\* Note: Choose either back or straight discharge.

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