



TRANQUILITY® 18 (SC) COMPACT SINGLE-STAGE SERIES

COMMERCIAL | 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)
- CXM2 Communicating 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
- DXM2.5 Advanced Communicating 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



Scan for
Product Catalog

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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	6,100	15.0	8,300	5.1	7,300	26.6	6,500	4.0	6,400	17.7	4,800	3.3
009	EC	8,600	14.3	11,600	4.5	10,000	23.0	9,600	3.5	9,000	16.7	7,300	3.3
012	EC	10,700	13.4	14,400	4.6	13,000	21.0	11,700	4.0	11,500	14.9	9,300	3.3
015	EC	14,700	16.4	15,900	4.9	16,900	26.2	13,800	4.5	15,200	17.3	10,700	3.6
018	EC	18,000	15.0	21,500	5.1	20,900	25.0	17,700	4.4	19,400	17.3	13,800	3.6
024	EC	24,900	15.4	28,500	5.1	27,800	24.0	24,000	4.5	25,800	18.0	19,000	3.7
030	EC	29,200	14.5	35,000	4.8	32,800	23.5	28,800	4.3	30,500	17.3	23,000	3.6
036	EC	35,200	15.3	43,500	4.8	39,200	25.2	35,800	4.2	36,400	17.4	27,900	3.6
042	EC	41,800	15.2	48,500	4.9	46,000	22.9	39,900	4.3	43,400	17.4	31,700	3.5
048	EC	48,900	15.2	57,500	4.8	53,500	22.8	47,700	4.2	50,800	17.6	38,100	3.5
060	EC	60,200	14.7	68,000	4.7	67,000	21.5	57,100	4.2	62,200	17.4	44,300	3.5
041	PSC	36,000	14.0	43,300	4.3	40,300	22.0	35,500	3.8	37,500	16.5	28,000	3.3

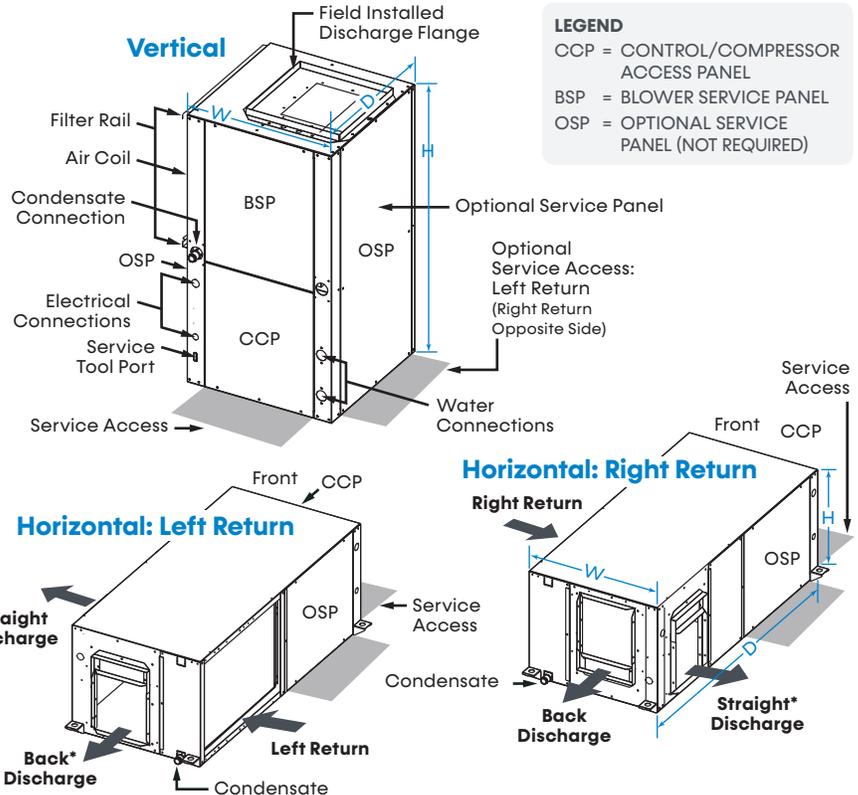
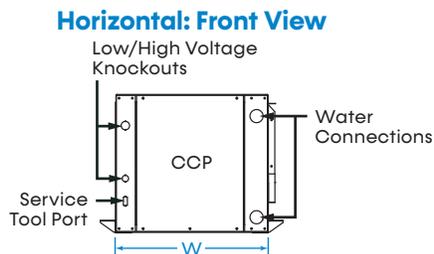
Notes:

- 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	Width	Height
SC006-SC012	Horizontal	34.1	19.1	11.1
	Vertical	19.1	19.1	22.0
SC015-SC018	Horizontal	43.0	20.1	17.0
	Vertical	21.5	21.6	40.0
SC024-SC030	Horizontal	43.0	20.1	18.3
	Vertical	21.5	21.6	40.0
SC036-SC042	Horizontal	47.1	20.1	21.0
	Vertical	26.0	21.6	45.0
SC048-SC060	Horizontal	54.1	24.1	21.0
	Vertical	29.3	25.5	50.5
SC041	Vertical	21.5	21.6	40.0

Note: For Front cabinet configurations, please refer to the Product Catalog for dimensional data.



LEGEND
 CCP = CONTROL/COMPRESSOR ACCESS PANEL
 BSP = BLOWER SERVICE PANEL
 OSP = OPTIONAL SERVICE PANEL (NOT REQUIRED)

* Note: Choose either back or straight discharge.

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