



CLIMATEMASTER®

A NIBE GROUP MEMBER

TRANQUILITY® (SB) COMPACT HIGH-CAPACITY SERIES

Sizes: 072-300 | 60 Hz – R-454B



The Tranquility® (SB) Compact High-Capacity Series is engineered to deliver exceptional performance in a compact package, ensuring efficient and powerful functionality while conserving space. By incorporating cutting-edge features designed specifically for confined spaces, the Tranquility SB not only enhances comfort but also improves overall usability and adaptability, positioning it as the perfect option for a wide range of applications where space is limited.

Included as standard, the Tranquility SB boasts high-quality construction, a dependable refrigerant system, standard safety controls, and various field adaptability and convertibility options.

The SB Series Advantage

STANDARD FEATURES

- All sizes, 072 (6 tons, 21.1 kW) through 300 (25 tons, 87.9 kW), exceed ASHRAE 90.1 efficiencies
- Environmentally-friendly R-454B low-GWP refrigerant
- Refrigerant Detection System (RDS) (required for all sizes)
- Galvanized-steel cabinet construction
- Electric power entry points from either side of the front
- Communicating CXM2 controls for reduced startup, commissioning, and service time
- Configurable water connections for left or right handling
- Dual refrigeration circuits (all sizes)
- Premium-duty motor that is VFD compatible

CONFIGURABLE OPTIONS

- Variable Frequency Drive (VFD) fan-motor controls (single-zone VAV compatible)
- Blower motor/sheave drive packages
- BACnet, Modbus, and Johnson Controls N2 compatibility options for Building Management Systems (BMS)
- Sound-absorbing UltraQuiet package
- Waterside Economizer (WSE): requires the standard CXM2 and heat-pump thermostat with two-stage cooling
- Extended-range insulation for geothermal applications
- Motorized and modulating water valves for ultimate part-load operation



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Product Catalog

TRANQUILITY (SB) COMPACT HIGH-CAPACITY SERIES

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

Configuration	Size	Load	Motor Type	Rated CFM	Rated GPM	Sheave Setting (turns open)	Water Loop - Current				Ground Water - Current				Ground Loop - Current			
							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
Horizontal/ Vertical	72	Part	Belt Drive w/VFD	1,200	18	1.0	35,300	14.4	43,200	5.1	38,400	21.0	35,900	4.4	36,700	18.0	31,200	4.0
		Full		2,400	18	1.0	70,200	14.1	88,100	5.3	76,400	20.7	73,100	4.6	71,500	15.6	57,400	3.8
	96	Part		1,600	24	1.0	48,400	14.6	59,500	5.3	53,200	21.8	48,300	4.4	51,800	19.3	43,100	4.0
		Full		3,200	24	1.0	93,600	14.0	121,400	5.1	101,900	20.7	97,700	4.2	97,700	16.2	75,000	3.5
	120	Part		2,000	30	1.0	57,500	14.3	75,200	4.9	65,300	21.3	60,700	4.2	61,800	18.1	53,000	3.7
		Full		4,000	30	1.0	112,600	13.7	156,600	5.0	126,000	20.4	121,700	4.0	116,300	15.3	93,100	3.4
Vertical	168	Part	Belt Drive w/VFD	2,800	42	1.0	80,000	14.9	91,100	4.5	88,400	23.8	75,400	3.9	85,600	19.7	65,300	3.6
		Full		5,600	42	1.0	159,600	14.5	186,200	4.6	174,600	22.8	156,000	4.1	165,400	16.1	114,100	3.3
	192	Part		3,200	48	1.0	93,200	14.4	114,400	5.2	104,200	22.0	91,900	4.4	98,200	19.7	74,500	3.8
		Full		6,400	48	1.0	180,500	14.4	211,600	5.0	192,900	21.3	170,100	4.4	184,700	16.4	133,000	3.7
	240	Part		4,000	60	1.0	113,900	15.4	151,000	5.5	129,200	23.5	117,600	4.6	122,700	20.2	101,700	4.2
		Full		8,000	60	1.0	220,900	14.5	299,800	5.3	249,500	21.8	234,700	4.6	230,300	16.4	179,700	3.7
	300	Part		5,000	75	1.0	144,700	14.9	182,800	5.4	164,300	22.5	144,500	4.6	157,000	19.6	125,100	4.1
		Full		10,000	75	1.0	280,300	14	365,400	5.1	317,900	20.9	284,700	4.3	291,500	15.8	221,200	3.5

Notes:

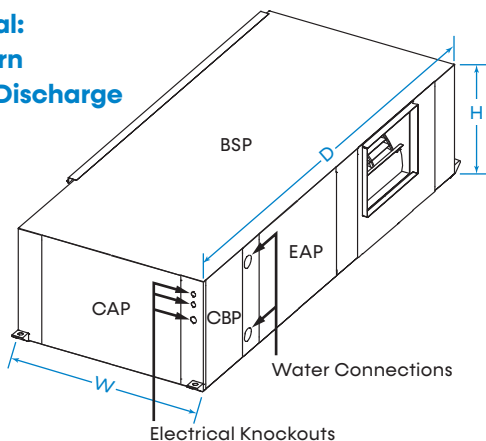
- Where dual voltages are available, ratings are based on the lower voltage setting.
- Cooling capacities based upon 80.6°F DB, 66.2°F WB entering air temperature.
- Heating capacities based upon 68°F DB, 59°F WB entering air temperature.
- Ground Loop Heat Pump ratings based on 15% antifreeze solution.
- Partial data table shown. For more detailed information, refer to the [Product Catalog](#).

Dimensional Data

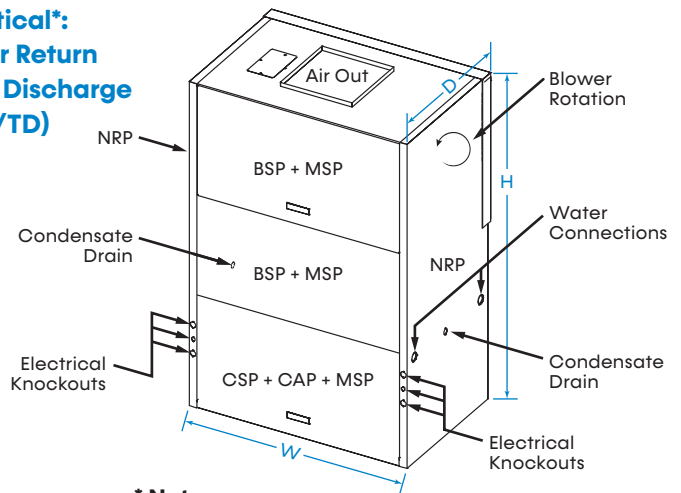
Unit Size	Cabinet Configuration	Overall Cabinet (inches)		
		Depth	Width	Height
		D	W	H
072-120	Vertical	29.0	41.0	69.8
160-300			82.0	
072-120	Horizontal	84.9	36.3	21.6

For more detailed dimensional drawings and WSE dimensional data, please refer to the [Product Catalog](#).

Horizontal: Left Return Straight Discharge (LR/SD)



Vertical*: Rear Return Top Discharge (RR/TD)



* Note:
Representative of unit sizes 072-120

LEGEND

- BSP = BLOWER SERVICE PANEL
- CAP = CONTROL ACCESS PANEL
- CSP = COMPRESSOR ACCESS PANEL
- EAP = EXPANSION VALVE ACCESS PANEL
- MSP = MOTOR SERVICE PANEL
- NRP = NON REMOVABLE PANEL