



TRANQUILITY® (SB) COMPACT HIGH-CAPACITY WITH HOT GAS REHEAT

Vertical Sizes: 072-300 | 60 Hz – R-454B



The Tranquility® (SB) Compact High-Capacity Series delivers powerful, efficient performance in a space-saving design. Built for confined areas, it enhances comfort, usability, and adaptability—making it ideal where space is limited. When humidity remains high after the space temperature is met, the humidistat activates reheat mode. Return air is cooled and moisture is removed, then high-pressure refrigerant gas is routed through the reheat coil to raise the leaving air to neutral temperature, preventing over-cooling. The Hot Gas Reheat (HGRH) system provides cost-effective dehumidification solution without sacrificing comfort.

The SB Series With Hot Gas Reheat 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) (for all sizes)
- vFlow® modulating water valves for ultimate part load operation and head pressure control during reheat operation
- Hot Gas Reheat (HGRH) available in all vertical configuration sizes
- Communicating DXM2.6 controls for reduced startup, commissioning, and service time
- Configurable water connections for left or right handling
- Dual refrigeration circuits (all sizes)
- High-efficiency EC plug fans

CONFIGURABLE OPTIONS

- ClimaLink Edge controller with BACnet, Modbus, for Building Management Systems (BMS)
- Sound-absorbing UltraQuiet package
- Extended-range insulation for geothermal applications

TRANQUILITY (SB) COMPACT HIGH-CAPACITY WITH HGRH

ASHRAE/AHRI/ISO 13256-1 English (I-P) Units

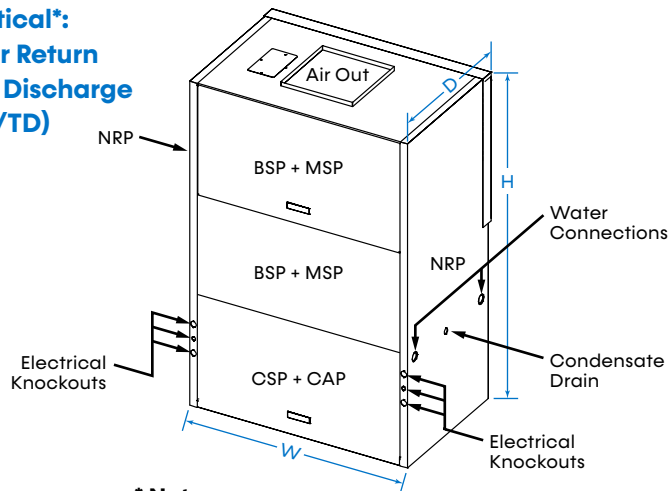
Config	Size	Part/ Full Load	Motor Type	Rated CFM	Rated GPM	Water Loop - Current				Ground Water - Current				Ground Loop - Current			
						Cooling 86°F		Heating 68°F		Cooling 59°F		Heating 50°F		Cooling 77°F		Heating 32°F	
						Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
Vertical	72	F	EC	2,400	18	71,000	14.1	92,300	5.3	77,800	20.5	76,000	4.6	74,100	15.5	58,300	3.8
	96	F	EC	3,200	24	101,000	15.3	122,800	5.0	110,500	22.3	99,500	4.4	101,700	16.3	76,600	3.6
	120	F	EC	4,000	30	122,000	13.7	156,000	4.6	128,000	18.1	127,000	4.0	124,500	14.3	98,500	3.4
	168	F	EC	5,600	42	168,000	14.4	192,000	4.7	186,000	21.0	151,800	4.1	172,000	16.2	121,000	3.5
	192	F	EC	6,400	48	187,000	14.9	220,000	5.1	201,000	21.5	181,000	4.5	194,000	16.5	139,000	3.7
	240	F	EC	8,000	60	232,000	13.9	294,000	4.9	256,000	20.0	236,000	4.3	232,000	14.3	179,000	3.5
	300	F	EC	10,000	75	290,000	12.0	372,000	4.5	328,000	18.0	290,000	4.0	299,000	13.6	217,000	3.2

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

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



*** Note:**
Representative of unit sizes 072-120

Unit Size	Cabinet Configuration	Overall Cabinet (inches)		
		Depth	Width	Height
072-120	Vertical	29.0	41.0	69.8
160-300			82.0	

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

LEGEND

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

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Part#: LC3067 | Created: November 17, 2025

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