



# TRANQUILITY® (SH) VERTICAL STACK CHASSIS REPLACEMENT SERIES

COMMERCIAL | Sizes: 09-36 | 60 Hz – R-454B



The Tranquility (SH) Vertical Stack Chassis Replacement Series offers quick replacements for legacy ClimateMaster products without having to tear out existing cabinets or modifying riser stacks. Keeping your old cabinet means no sheet rock removal and repair. The Tranquility SH replacement chassis slides into most existing California Heat Pump (CHP) and ClimateMaster cabinets. The Tranquility SH exceeds ASHRAE 90.1 efficiencies. Using R-454B low Global Warming Potential (GWP) refrigerant, the Tranquility SH not only protects the environment, it does so while delivering unprecedented comfort, efficiency, and reliability.

## The SH Series Advantage

### STANDARD FEATURES

- Sizes 09 (¾ ton, 2.6 kW) through 036 (3 tons, 10.6 kW)
- High-efficiency rotary and scroll compressors
- Removable chassis allows staged installation and ease of maintenance
- Unique double-isolation compressor mounting for quiet operation

### ACCESSORY KITS

- Deck kits for external blower motor and controls replacements in the existing cabinet
- Accessory sheet metal block offs to allow for stock, off-the-shelf chassis conversions
- Hose adapter fittings for field compatibility

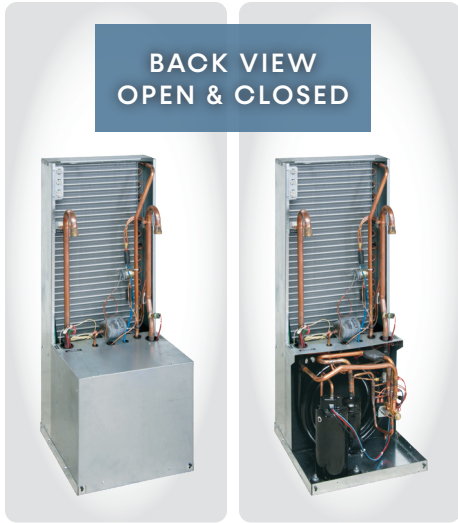
### CONFIGURABLE OPTIONS

- 816-817 series "S", "M" and "P" controls
- TSM-TSL sizes 09-12 Rev A-B replacement chassis (19" x 19.25")
- Easy-to-clean rust-prohibitive stainless-steel drain pans
- UltraQuiet sound-attenuation package
- Return-air sensor
- Motor harnesses for:
  - PSC motors
  - Intelligent Constant Volume (CV) EC motors
  - Entry-level Constant Torque (CT) EC motors



Scan for  
Product Catalog

# TRANQUILITY (SH) VERTICAL STACK CHASSIS REPLACEMENT SERIES



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

Model	Size	Water Loop Heat Pump			
		Cooling 86°F		Heating 68°F	
		Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
SH8/SHR	09	8,800	13.0	12,500	4.6
	12	11,600	13.0	15,800	4.5
	15	14,700	13.0	18,300	4.5
	18	16,700	13.0	22,600	4.7
	24	22,100	13.0	29,400	4.5
	30	27,100	13.0	33,100	4.6
	36	32,000	12.5	39,500	4.6

Notes:

- 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 units shipped on high-speed motor TAP.
- All ratings based upon operation at lower voltage of dual voltage rated models.
- See product catalog for additional performance data.

## Field Conversion Series Compatibility

Legacy Chassis Series	R-454B Chassis Series	Potential Field Conversion	Are components required for this conversion?
TRM 09/12	SH809/12 (P controls only)	SHR09/12	All SH809/12 are shipped with a conversion block. When replacing a TRM 09/12, the conversion block should be kept on the SH809/12 chassis.
TRM 18	SH818 (P controls only)	SHR18	No. Standard configuration of both chassis are interchangeable if the SH8 has P controls.
TRM 24/30/36	SH824/30/36 (P controls only)	SHR24/30/36	
816 & 817 09/12	SHR09/12	SH809/12 (P controls only)	No parts required. The Block off shipped with SHR09/12 is removed and the chassis is interchangeable with SH809/12 chassis.
816 & 817 18/20	SHR18	SH818 (P controls only)	Yes. The SH818 accessory block-off accessory is required. The block-off accessory ships with the SH818 chassis and may be ordered separately.*
816 & 817 24/30/36	SHR24/30/36	SH824/30/36 (P controls only)	No parts required.
TSM Rev. A/B 9/12	SHM09/12	SHS09/12	No. TSM and TSL are interchangeable if the legacy installed chassis does not have features specific to that series. The series will need to be reconfigured on the communicating unit controller with service tool to function properly.
TSL Rev. A/B 9/12	SHS09/12	SHM09/12	
TSM Rev. C 9-36	SHC09-36	SHD09-36	
TSL Rev. C 9-36	SHD09-36	SHC09-36	

Notes:

- \* This conversion only occurs if a R-454B SHR18 is replacing a 81620 chassis in the field.
- All options/features on the R-454B chassis should be verified before converting to another series to ensure the R-454B chassis is a compatible replacement.
- 816 products were offered with line voltage, electro-mechanical, and P-controls. The oldest of those were the line voltage and electro-mechanical options. For direct replacement of 816 chassis with line voltage or electro-mechanical controls, the SH8 series chassis must be used (cannot be field converted). Please consult the 816/817 and SH model nomenclature to determine the controls option.

Part#: LC3047 | Created: February 10, 2025

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