



COMMERCIAL TRANQUILITY® (SH) VERTICAL STACK CHASSIS REPLACEMENT SERIES

PRODUCT CATALOG

Part#: LC3041 | Revised: December 20, 2024

Models: SH 09-36 60Hz - R-454B

Models: SH 09-36

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Introduction

TRANQUILITY® (SH) VERTICAL STACK CHASSIS REPLACEMENT SERIES

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. Tranquility SH Chassis Replacement slide 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.

Available in sizes ¾ ton (2.6 kW) through 3 tons (10.6 kW). ClimateMaster's double isolation compressor mounting system makes the Tranquility SH the quietest vertical stack units on the market.

Compressors are mounted on specially engineered sound-tested EPDM rubber grommets to a heavy gauge mounting plate, which is then isolated from the cabinet base with EPDM rubber grommets for maximized vibration/sound attenuation.

Accessory kits available: water adapter kit to convert hard-union water piping to hose connection, cabinet kit to upgrade deck, blower assembly, motor, sheet metal block off for stock chassis conversions, and hose kit.

The Tranquility SH serves as the replacement series for 816, 817, TRM, TSM/TSL Rev C, and TSM/TSL 09-12 Rev A-B existing chassis. Please contact applicationengineering@climatemaster.com for support determining replacement chassis model numbers.

Features, Options, and Accessories

UNIT FEATURES

- Sizes 09 (¾ ton, 2.6 kW) through 36 (3 ton, 10.6 kW)
- Environmentally-friendly R-454B low-GWP refrigerant
- High-efficiency rotary and scroll compressors
- Unique double isolation compressor mounting for quiet operation
- TXV metering device

OPTIONS

- 816-817 series "S", "M" and "P" controls
- TSM-TSL sizes 09-12 Rev A-B Chassis Replacement (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

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

NOTE: Many different styles of return air panels have been applied to these products over time. Some panels will require field modification for attachment to the new chassis series. Purchase current-model return air panels to avoid field modification. ClimateMaster is not responsible or liable for any modifications to panels or walls required to securely attach return air panel.

Selection Procedure

Reference Calculations

Heating	Cooling
LWT = EWT - HE GPM x Constant	$LWT = EWT + \frac{HR}{GPM \times Constant} LC = TC - SC$
LAT = EAT + HC	LAT (DB) = EAT (DB) - $\frac{SC}{CFM \times 1.08}$ S/T = $\frac{SC}{TC}$

Constant = 500 for water, 485 for antifreeze

Conversion Table - to convert inch-pound (English) to S-I (Metric)

Airflow	Water Flow	External Static Pressure	Water Pressure Drop
Airflow (L/s) = CFM \times 0.472	Water Flow (L/s) = GPM x 0.0631	ESP (Pa) = ESP (in of wg) \times 249	PD (kPa) = PD (ft of hd) x 2.99

Legend and Glossary of Abbreviations

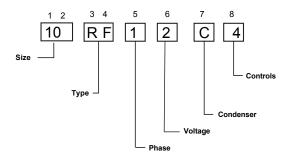
Abbreviations	Descriptions
Btuh	Btu (British Thermal Unit) per hour
BMS	Building Management System
CDT	Compressor discharge temperature
CFM	Airflow, cubic feet per minute
COP	Coefficient of performance = Btuh output/Btuh input
CT EC	Electronically commutated constant torque blower motor
CV EC	Electronically commutated constant volume blower motor
DB	Dry bulb temperature, °F
DT	Delta T
EAT	Entering air temperature
EER	Energy efficient ratio = Btuh output/Watt input
ESP	External static pressure, inches w.g.
EWT	Entering water temperature
FPT	Female pipe thread
GPM	Water flow in U.S., gallons per minute
HC	Air heating capacity, Btuh
HE	Total heat of extraction, Btuh
HR	Total heat of rejection, Btuh

Abbreviations	Descriptions
HWG	Hot water generator (desuperheater) capacity, MBtuh
kW	Total power unit input, kilowatts
LAT	Leaving air temperature, °F
LC	Latent cooling capacity, Btuh
LOC	Loss of charge
LWT	Leaving water temperature, °F
MBtuh	1,000 Btu per hour
MPT	Male pipe thread
MWV	Motorized water valve
PSC	Permanent split capacitor
RDS	Refrigerant Detection System
SC	Sensible cooling capacity, Btuh
S/T	Sensible to total cooling ratio
TC	Total cooling capacity, Btuh
TD or delta T	Temperature differential
VFD	Variable frequency drive
WB	Wet bulb temperature, °F
WPD	Waterside pressure drop, psi or feet of head
WSE	Waterside economizer

To select your replacement unit and accessories, use the ClimateMaster chassis converter located on the business center at https://www.climatemaster.com/scart/customer/home.php

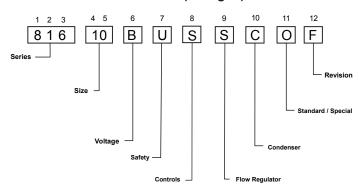
NOTE: DO NOT TRY TO USE THE ATTACHED MODEL NOMENCLATURE

CHP Models - (8 digits)



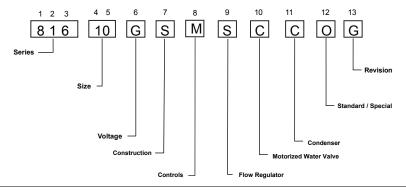
Decoder for reference only - Use 816 to 817(TRM) Conversion Program to obtain correct replacement model and required accessories.

816 Rev A - G (12 digits)



Decoder for reference only - Use 816 to 817(TRM) Conversion Program to obtain correct replacement model and required accessories.

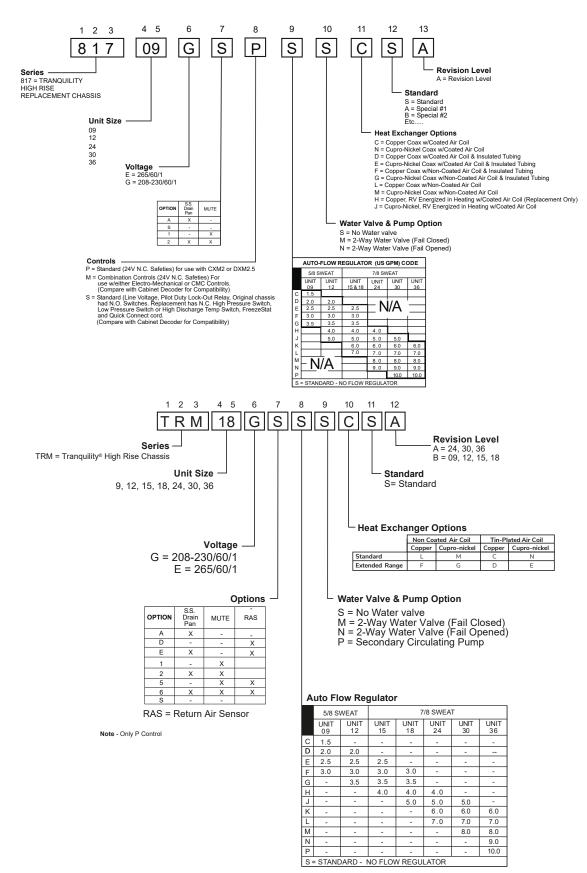
816 Rev G - S (13 digits)



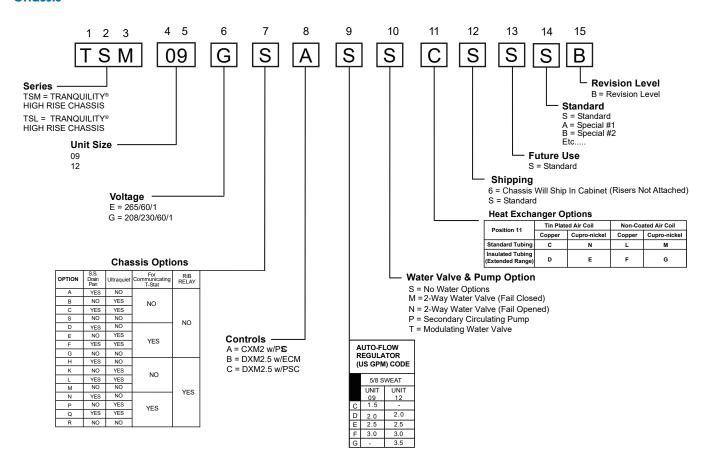
Decoder for reference only - Use 816 to 817(TRM) Conversion Program to obtain correct replacement model and required accessories.

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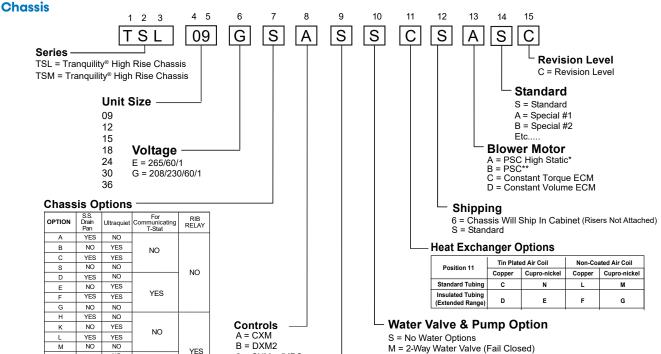
Chassis



Chassis



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AUTO-	FLOW RE	GULATO	OR (USG	PM) COD	E				
5/8 S	WEAT		7/8	SWEAT					
		 							

NO

YES

YES

YES

YES YES

NO NΩ

Ν

	3/0 3	VVLAI		170	O 1 1 L/ 1.1		
	UNIT 09	UNIT 12	UNIT 15	UNIT 18	UNIT 24	UNIT 30	UNIT 36
С	1.5	-	-	-	-	-	-
D	2.0	2.0	-	-	-	-	-
Е	2.5	2.5	2.5	-	-	-	-
F	3.0	3.0	3.0	3.0	-	-	-
G	-	3.5	3.5	3.5	-	-	-
Н	-	-	4.0	4.0	4.0	-	-
J	-	-	-	5.0	5.0	5.0	-
K		-	-	-	6.0	6.0	6.0
L	-	-	ı	1	7.0	7.0	7.0
М	-					8.0	8.0
N	-					-	9.0
Р	-	-				-	10.0
S:	= STANI	DARD - N	D FLOW F	REGULAT	OR		

2 = CXM w/MPC

D = DXM2 w/MPC

M = 2-Way Water Valve (Fail Closed)

N = 2-Way Water Valve (Fail Closed)
N = 2-Way Water Valve (Fail Opened)
P = Secondary Circulating Pump
T = Modulating Water Valve
G = Standard 3-Way Water Valve

H = Hybrid with Standard Water Valve (Fail Closed)*

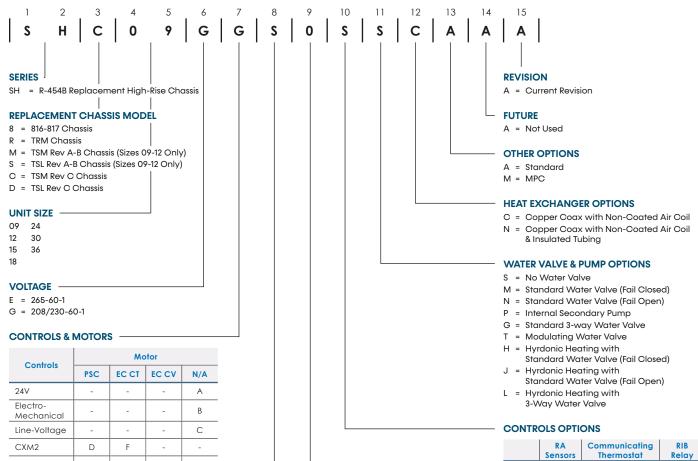
J = Hybrid with Standard Water Valve (Fail Opened)*

L = Hybrid with 3-Way Water Valve*

K = Hybrid with Secondary Water Pump and 3-Way Water Valve*

**TSM only *TSL only

Tranquility SH Model Nomenclature



OPTIONS -

DXM2.5

Option	Stainless Steel Drain Pan	UltraQuiet
S	-	-
А	X	-
1	-	Х
2	X	Х

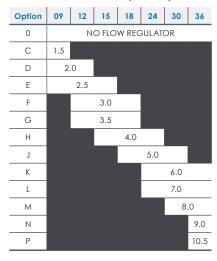
G

J

F

 $\label{thm:com/eRep/to-configure} Use \ Climate Master's selection software at \ https://climate master solutions.com/eRep/to-configure your Tranquility SH model.$

AUTO-FLOW REGULATOR (US GPM) CODE



English (I-P) Units

				Water Loop	Heat Pump		
Model	Rated	Rated	Cooling	86°F	Heating 68°F		
	CFM	GPM	Capacity Btuh	EER Btuh/W	Capacity Btuh	СОР	
SH8/SHR 09	300	2.63	8,900	14.7	11,700	4.7	
SH8/SHR 12	400	3.50	11,100	14.8	14,800	4.9	
SHR 15	500	3.75	14,700	16.3	18,500	5.5	
SH8/SHR 18	600	4.50	18,200	14.9	22,300	5.2	
SH8/SHR 24	800	6.00	24,700	17.0	29,100	5.3	
SH8/SHR 30	1,000	7.50	30,800	16.7	31,200	5.2	
SH8/SHR 36	1,200	9.00	35,300	15.4	34,200	4.6	

- 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 ratings based upon operation at lower voltage of dual-voltage rated models

Metric (S-I) Units

			Water Loop Heat Pump						
Model	Rated	Rated	Cooling	Heating 20°C					
	CFM	GPM	Capacity W	EER W/W	Capacity W	СОР			
SH8/SHR 09	300	2.63	2,608	4.3	3,429	4.7			
SH8/SHR 12	400	3.50	3,253	4.3	4,338	4.9			
SHR 15	500	3.75	4,308	4.8	5,422	5.5			
SH8/SHR 18	600	4.50	5,334	4.4	6,536	5.2			
SH8/SHR 24	800	6.00	7,239	5.0	8,529	5.3			
SH8/SHR 30	1,000	7.50	9,027	4.9	9,144	5.2			
SH8/SHR 36	1,200	9.00	10,346	4.5	10,023	4.6			

- Cooling capacities based upon 27°C DB, 19°C WB entering air temperature Heating capacities based upon 20°C DB, 15°C WB entering air temperature All ratings based upon operation at lower voltage of dual-voltage rated models

English (I-P) Units

						Water Loop Heat Pump				Ground Loop Heat Pump				
Model	Rated	Rated	Motor	Coolin	g 86°F	Heatin	g 68°F	Coolin	g 77°F	Heating 32°F				
CF	CFM	GPM		Capacity Btuh	EER Btuh/W	Capacity Btuh	СОР	Capacity Btuh	EER Btuh/W	Capacity Btuh	СОР			
00 44112	300	0.05	EC CT	8,800	15.2	11,400	5.1	8,800	17.1	6,600	3.4			
SHM 09	300	2.25	2.25	2.23	2.25	EC CV	8,800	14.9	11,400	5.0	8,800	16.8	6,600	3.4
SHM 12	400	3.00	EC CT	11,200	14.5	14,700	5.0	11,700	16.7	8,500	3.5			
3HM 12	400	3.00	EC CV	11,200	14.2	14,700	5.0	11,700	16.4	8,500	3.4			
2112 00	200	0.05	EC CT	9,000	16.2	11,400	5.2	9,400	18.9	6,600	3.5			
2H2 U4	SHS 09 300	2.25	EC CV	9,000	15.9	11,400	5.1	9,400	18.2	6,600	3.4			
CLIC 10	0110 10 400	400	2.00	EC CT	11,500	15.5	14,600	5.1	12,200	18.3	8,400	3.5		
SHS 12	400	3.00	EC CV	11,500	15.1	14,600	5.0	12,200	17.0	8,400	3.4			

- 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 ratings based upon operation at lower voltage of dual voltage rated models

Metric (S-I) Units

						Water Loop Heat Pump				Ground Loop Heat Pump					
Model	Rated	Rated	Motor	Cooling	g 30°C	Heating	g 20°C	Coolin	g 25°C	Heatin	g 0°C				
CFM	CFM	GPM		Capacity W	EER W/W	Capacity W	COP	Capacity W	EER W/W	Capacity W	СОР				
21114.00	200	0.05	EC CT	2,579	4.5	3,341	5.1	2,579	5.0	1,934	3.4				
SHM 09	300	2.25	2.25	EC CV	2,579	4.4	3,341	5.0	2,579	4.9	1,934	3.4			
CLIN4 10	400	2.00	EC CT	3,283	4.2	4,308	5.0	3,429	4.9	2,491	3.5				
SHM 12	400	3.00	3.00	EC CV	3,283	4.2	4,308	5.0	3,429	4.8	2,491	3.4			
00.00	200	0.05	EC CT	2,638	4.7	3,341	5.2	2,755	5.5	1,934	3.5				
SHS 09	300	300	300	0 2.25	2.25	2.25	EC CV	2,638	4.7	3,341	5.1	2,755	5.3	1,934	3.4
CLIC 10		100	2.00	EC CT	3,370	4.5	4,279	5.1	3,576	5.4	2,462	3.5			
SHS 12 400	3.00	EC CV	3,370	4.4	4,279	5.0	3,576	5.0	2,462	3.4					

- Cooling capacities based upon 27°C DB, 19°C WB entering air temperature Heating capacities based upon 20°C DB, 15°C WB entering air temperature
- All ratings based upon operation at lower voltage of dual voltage rated models

English (I-P) Units

				Water Loop	Heat Pump		Ground Loop Heat Pump							
Model with	Rated	Rated	Coolin	g 86°F	Heatin	Heating 68°F		g 77°F	Heating 32°F					
EC CT Motor	CFM	GPM	Capacity Btuh	EER Btuh/W	Capacity Btuh	СОР	Capacity Btuh	EER Btuh/W	Capacity Btuh	СОР				
SHC 09	300	2.25	8,800	15.2	11,400	5.1	8,800	17.1	6,600	3.4				
SHD 09	300	2.25	9,000	16.2	11,400	5.2	9,400	18.9	6,600	3.5				
SHC 12	400	3	11,200	14.5	14,700	5.0	11,700	16.7	8,500	3.5				
SHD 12	400	3	11,500	15.5	14,600	5.1	12,200	18.3	8,400	3.5				
SHC 15	500	2.75	14,300	15.4	18,400	5.1	14,800	17.5	11,100	3.6				
SHD 15		3.75	14,900	16.5	18,300	5.1	15,400	18.8	11,000	3.7				
SHC 18	600	4.5	17,400	14.5	22,100	4.9	18,200	16.7	13,600	3.5				
SHD 18	800	4.5	18,000	15.6	22,000	4.9	19,000	17.8	13,600	3.6				
SHC 24	000	,	24,000	16.1	28,200	5.0	24,800	18.6	18,400	3.6				
SHD 24	800	6	25,000	17.6	28,000	5.1	25,900	20.4	18,000	3.7				
SHC 30	1000	1000	1000	1000	1000	7.5	29,100	15.2	36,200	5.0	28,900	17.0	22,800	3.5
SHD 30		/.5	30,000	17.0	35,500	5.3	30,000	19.0	22,300	3.7				
SHC 36	1000	9	34,200	14.5	42,500	4.9	35,200	16.3	28,100	3.5				
SHD 36	1200	,	35,900	15.8	42,200	5.0	36,800	17.7	27,300	3.5				

- 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 ratings based upon operation at lower voltage of dual voltage rated models

Metric (S-I) Units

				Water Loop	Heat Pump			Ground Loo	p Heat Pump		
Model with	Rated	Rated	Cooling 30°C		Heating	g 20°C	Coolin	g 25°C	Heatir	Heating 0°C	
EC CT Motor	CFM	GPM	Capacity W	EER W/W	Capacity W	СОР	Capacity W	EER W/W	Capacity W	СОР	
SHC 09	300	2.25	2,579	4.5	3,341	5.1	2,579	5.0	1,934	3.4	
SHD 09	300	2.23	2,638	4.7	3,341	5.2	2,755	5.5	1,934	3.5	
SHC 12	400	3	3,283	4.2	4,308	5.0	3,429	4.9	2,491	3.5	
SHD 12	400	3	3,370	4.5	4,279	5.1	3,576	5.4	2,462	3.5	
SHC 15	500	3.75	4,191	4.5	5,393	5.1	4,338	5.1	3,253	3.6	
SHD 15	300	3./3	4,367	4.8	5,363	5.1	4,513	5.5	3,224	3.7	
SHC 18	600	4.5	5,100	4.2	6,477	4.9	5,334	4.9	3,986	3.5	
SHD 18	000	4.5	5,275	4.6	6,448	4.9	5,569	5.2	3,986	3.6	
SHC 24	800	6	7,034	4.7	8,265	5.0	7,268	5.5	5,393	3.6	
SHD 24	000	0	7,327	5.2	8,206	5.1	7,591	6.0	5,275	3.7	
SHC 30	1000	7.5	8,529	4.5	10,610	5.0	8,470	5.0	6,682	3.5	
SHD 30	1000	/.5	8,792	5.0	10,404	5.3	8,792	5.6	6,536	3.7	
SHC 36	1200	9	10,023	4.2	12,456	4.9	10,317	4.8	8,236	3.5	
SHD 36	1200	7	10,522	4.6	12,368	5.0	10,785	5.2	8,001	3.5	

- Cooling capacities based upon 27°C DB, 19°C WB entering air temperature
 Heating capacities based upon 20°C DB, 15°C WB entering air temperature
 All ratings based upon operation at lower voltage of dual voltage rated models

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English (I-P) Units

				Water Loop	Heat Pump			Ground Loo	p Heat Pump	
Model with	Rated	Rated	Cooling of I realing to		g 68°F	°F Cooling 77°F		Heating 32°F		
EC CV Motor	CFM	GPM	Capacity Btuh	EER Btuh/W	Capacity Btuh	СОР	Capacity Btuh	EER Btuh/W	Capacity Btuh	СОР
SHC 09	300	2.25	8800	14.9	11400	5.0	8800	16.8	6600	3.4
SHD 09	300	2.23	9000	15.9	11400	5.1	9400	18.2	6600	3.4
SHC 12	400	2	11200	14.2	14700	5.0	11700	16.4	8500	3.4
SHD 12	400	3	11500	15.1	14600	5.0	12200	17.0	8400	3.4
SHC 15	500	3.75	14300	15.4	18400	5.1	14800	17.5	11000	3.6
SHD 15	300	3./5	14900	16.5	18200	5.1	15400	18.8	11000	3.7
SHC 18	600	4.5	17400	14.6	22100	4.9	18100	16.7	13600	3.5
SHD 18	000	4.5	18000	15.6	22000	4.9	18900	17.8	13500	3.6
SHC 24	000	,	24000	15.9	28300	4.9	24900	18.3	18600	3.5
SHD 24	800	6	25000	17.6	28000	5.1	25900	20.4	18000	3.7
SHC 30	1000	. 7.5	29100	15.2	36100	5.0	28900	17.0	22800	3.5
SHD 30	1000	7.5	30000	16.9	35500	5.2	30000	19.0	22300	3.7
SHC 36	1200	1200 9	34400	14.3	42600	4.8	35300	16.0	27800	3.4
SHD 36	1200	,	35900	15.6	42200	4.9	36800	17.5	27300	3.5

- 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 ratings based upon operation at lower voltage of dual voltage rated models

Metric (S-I) Units

				Water Loop Heat Pump				Ground Loo	op Heat Pump		
Model with	Rated	Rated	Cooling 30°C Heating 20°C		Coolin	g 25°C	Heating 0°C				
EC CV Motor	CFM	GPM	Capacity W	EER W/W	Capacity W	СОР	Capacity W	EER W/W	Capacity W	СОР	
SHC 09	300	2.25	2579	4.5	3341	5.1	2579	5.0	1934	3.4	
SHD 09	300	2.25	2638	4.7	3341	5.2	2755	5.5	1934	3.5	
SHC 12	400	3	3283	4.2	4308	5.0	3429	4.9	2491	3.5	
SHD 12	400	3	3370	4.5	4279	5.1	3576	5.4	2462	3.5	
SHC 15	500	0.75	4191	4.5	5393	5.1	4338	5.1	3253	3.6	
SHD 15	500	3.75	4367	4.8	5363	5.1	4513	5.5	3224	3.7	
SHC 18	400	4.5	5100	4.2	6477	4.9	5334	4.9	3986	3.5	
SHD 18	600	4.5	5275	4.6	6448	4.9	5569	5.2	3986	3.6	
SHC 24	800	,	7034	4.7	8265	5.0	7268	5.5	5393	3.6	
SHD 24	800	6	7327	5.2	8206	5.1	7591	6.0	5275	3.7	
SHC 30	1000		8529	4.5	10610	5.0	8470	5.0	6682	3.5	
SHD 30	1000	7.5	8792	5.0	10404	5.3	8792	5.6	6536	3.7	
SHC 36	1000		10023	4.2	12456	4.9	10317	4.8	8236	3.5	
SHD 36	1200	9	10522	4.6	12368	5.0	10785	5.2	8001	3.5	

- Cooling capacities based upon 27°C DB, 19°C WB entering air temperature Heating capacities based upon 20°C DB, 15°C WB entering air temperature All ratings based upon operation at lower voltage of dual voltage rated models

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Electrical Data

									В	ranch C	ircuit Rati	ing and I	Protectio	n	
		Min/Max		Compressor			Pump	No Pump				Inte	rnal Seco	ndary P	ump
Size	Model	Voltage	Voltage	мсс	RLA	LRA	FLA	Total Unit FLA	MCA	Max Fuse Size	Fuse HACR	Total Unit FLA	MCA	Max Fuse Size	Fuse HACR
	SH8 / SHR											N/A	N/A	N/A	N/A
09	SHM / SHS SHC / SHD	208/230-60-1	187/253	6.2	4.0	22.0	0.28	4.0	5.0	8.9	15	4.3	5.2	9.2	15
0,	SH8 / SHR	0,5,0	0001001	, ,			0.05				,,,	N/A	N/A	N/A	N/A
	SHM / SHS SHC / SHD	265-60-1	238/304	6.2	4.0	23.0	0.25	4.0	5.0	8.9	15	4.2	5.2	9.2	15
	SH8 / SHR									10.4		N/A	N/A	N/A	N/A
12	SHM / SHS SHC / SHD	208/230-60-1	187/253	7.2	4.6	25.0	0.49	4.6	5.8	10.4	15	5.1	6.3	10.9	15
12	SH8 / SHR											N/A	N/A	N/A	N/A
	SHM / SHS SHC / SHD	265-60-1	238/304	6.1	3.9	21.0	0.33	3.9	4.9	8.8	15	4.2	5.2	9.1	15
	SHR	208/230-60-1	187/253	8.1	5.2	26.0	0.49	5.2	6.5	11.7	15	N/A	N/A	N/A	N/A
15	SHC / SHD	200/230-00-1	107/233	0.1	3.1 3.2 20.0 0.47 3.2	0.0	11.7	13	5.7	7.0	12.2	15			
13	SHR	265-60-1	238/304	7.4	4.7	21.0	0.33	4.7	5.9	10.7	15	N/A	N/A	N/A	N/A
	SHC / SHD	203-00-1	230/304	7.4	4.7	21.0	0.00	1.7	0.7	10.7	13	5.1	6.3	11.0	15
	SH8 / SHR	208/230-60-1	187/253	14.3	9.2	35.0	0.49	9.2	11.5	20.6	20	N/A	N/A	N/A	N/A
18	SHC / SHD	200/200-00-1	107/200	14.5	7.2	33.0	0.47	7.2	11.5	20.0	20	9.7	11.9	21.1	20
10	SH8 / SHR	265-60-1	238/304	10.2	6.5	40.0	0.33	6.5	8.2	14.7	15	N/A	N/A	N/A	N/A
	SHC / SHD	203-00-1	230/304	10.2	0.5	40.0	0.55	0.5	0.2	14.7	13	6.9	8.5	15.0	15
	SH8 / SHR	208/230-60-1	187/253	17.8	11.4	64.4	0.49	11.4	14.3	25.7	25	N/A	N/A	N/A	N/A
24	SHC / SHD	200/200-00-1	107/200	17.0	111.4	04.4	0.47	111.4	14.5	25.7	25	11.9	14.8	26.2	25
24	SH8 / SHR	265-60-1	238/304	16.0	10.3	60.5	0.33	10.3	12.8	23.1	20	N/A	N/A	N/A	N/A
	SHC / SHD	203-00-1	250/504	10.0	10.5	00.5	0.00	10.5	12.0	20.1	20	10.6	13.2	23.4	20
	SH8 / SHR	208/230-60-1	187/253	19.8	12.7	75.6	0.49	12.7	15.9	28.6	25	N/A	N/A	N/A	N/A
30	SHC / SHD	200/230-00-1	107/233	17.0	12.7	73.0	0.47	12.7	13.7	20.0	25	13.2	16.4	29.0	25
30	SH8 / SHR	265-60-1	238/304	18.0	11.5	84.0	0.33	11.5	14.4	26.0	25	N/A	N/A	N/A	N/A
	SHC / SHD	203-00-1	230/304	10.0	11.5	04.0	0.55	11.5	14.4	20.0	25	11.9	14.8	26.3	25
	SH8 / SHR	208/230-60-1	187/253	26.0	16.7	93.5	0.49	16.7	20.8	37.5	35	N/A	N/A	N/A	N/A
36	SHC / SHD	200/230-00-1	10//233	20.0	10./	/3.3	0.47	10./	20.0	57.5	33	17.2	21.3	38.0	35
30	SH8 / SHR	265-60-1	238/304	21.0	13.5	90.8	0.33	13.5	16.8	30.3	30	N/A	N/A	N/A	N/A
	SHC / SHD	203-00-1	230/304	21.0	13.3	70.0	0.55	13.3	10.0	30.3	30	13.8	17.2	30.6	30

Notes:

Verify electrical service is adequate for new chassis.

Physical Data

Tranquility SH8/SHR

Model	09	12	15	18	24	30	36	
Compressor (1 Each)		Rot	ary			Scroll		
Factory Charge R-454B (oz) [kg]	30 [0.85]	28 [0.79]	34 [0.96]	38 [1.08]	46 [1.3]	52 [1.47]	54 [1.53]	
COAX								
Internal Volume (U.S. Gallon) [L]	0.26	[.98]	0.36	[1.4]		0.60 [2.3]		
Hose Kit (AHH Series Required)								
FPT (in) [cm]	1/2 [1.27]	3/4 [1.91]		1 [2.54]			
Drain Hose								
Internal Diameter in. [mm]				0.875 [22.2]				
Air Coil								
Standard Filter - 1" [25.4mm] Throwaway, qty (in) [mm]	14 x 24 [3	356 x 610]	16 x 30 [406 x 762]		20	0 x 32 [508 x 81	3]	
Weight								
Chassis - (lbs) [kg] 90 [41]		97 [44]	109 [49]	115 [52]	176 [80]	182 [83]	182 [83]	

Tranquility SHM/SHS

Model	09	12		
Compressor (1 Each)	Rotary			
Factory Charge R-454B (oz) [kg]	30 [0.85]	28 [0.79]		
COAX				
Internal Volume (U.S. Gallon) [L]	0.26 ((0.98)		
Hose Kit				
FPT (in) [cm]	1/2 [1.27]			
Drain Hose				
Internal Diameter in. [mm]	0.875 [22.2]			
Air Coil				
Standard Filter - 1" [25.4mm] Throwaway, qty (in) [mm]	16 x 30 [406 x 762]			
Weight				
Chassis - (lbs) [kg]	103 [47] 105 [48]			

SH Unit Maximum Working Water Pressure

Options	Max Pressure PSIG [kPa]
Base Unit	300 [2,068]
Internal Secondary Pump (ISP)	200 [1,378]
Internal Motorized Water Valve (WMV)	300 [2,068]
Internal Auto Flow Valve	300 [2,068]

Tranquility SHC/SHD

Model	09	12	15	18	24	30	36	
Compressor (1 Each)		Rot	ary			Scroll		
Factory Charge R-454B (oz) [kg]	30 [0.85]	28 [0.79]	34 [0.96]	38 [1.08]	46 [1.3]	52 [1.47]	54 [1.53]	
COAX								
Internal Volume (U.S. Gallon) [L]	0.26	[.98]	0.36	[1.4]		0.60 [2.3]		
Hose Kit (AHH Series Required)								
FPT (in) [cm]	1/2 [1.27]	3/4 [1.91]		1 [2.54]			
Drain Hose								
Internal Diameter in. [mm]				0.875 [22.2]				
Air Coil								
Standard Filter - 1" [25.4mm] Throwaway, qty (in) [mm]	14 x 30 [3	356 x 762]	16 x 30 [4	106 x 762]	2	0 x 32 [508 x 81	3]	
Weight								
Chassis - (lbs) [kg]	Chassis - (lbs) [kg] 110 [50] 117 [53]		123 [56]	125 [57]	186 [84]	190 [86]	192 [87]	

Existing Chassis R-454B SH Replacement Models

816 to SH8 Replacement

Old Chassis	New Chassis
*81610	SH8 09
*81615	SH8 12
*81620	SH8 18
*81628	SH8 24
*81630	SH8 30
*81636	SH8 36

^{*} A hose adapter kit is required for replacement if the existing 816 chassis is revision A-L. See Hose Adapter Part Numbers table for reference.

TSM/TSL 09-12 Rev. A-B to SHM/SHS Replacement

Old Chassis	New Chassis
TSM/TSL09 (Rev A-B)	SHM/SHS 09
TSM/TSL12 (Rev A-B)	SHM/SHS 12

TRM to SHR Replacement

New Chassis
SHR 09
SHR 12
SHR 15
SHR 18
SHR 24
SHR 30
SHR 36

817 to SH8 Replacement

Old Chassis	New Chassis
81709	SH8 09
81712	SH8 12
81724	SH8 24
81730	SH8 30
81736	SH8 36

TSM/TSL 09-12 Rev C and TSM/TSL 15-36 Rev A-C to SHC/SHD Replacement

Old Chassis	New Chassis
TSM/TSL09 (Rev. C)	SHC/SHD 09
TSM/TSL12 (Rev. C)	SHC/SHD 12
TSM/TSL15 (Rev. A-C)	SHC/SHD 15
TSM/TSL18 (Rev. A-C)	SHC/SHD 18
TSM/TSL24 (Rev. A-C)	SHC/SHD 24
TSM/TSL30 (Rev. A-C)	SHC/SHD 30
TSM/TSL36 (Rev. A-C)	SHC/SHD 36

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	No. standard configuration of both chassis are interchangeable if the shortas in controls.	
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		
TSL Rev. A/B 9/12	SHS09/12	SHM09/12	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	
TSM Rev. C 9-36	SHC09-36	SHD09-36	communicating unit controller with service tool to function properly.	
TSL Rev. C 9-36	SHD09-36	SHC09-36		

- * 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.

816-817 to SH8/SHR Conversion Data

	R-454B Replacement Chassis				
816 Chass	sis	Without Ca	binet Kit	With Cabinet Kit	
Digits 1-5	Digit 8	Digits 1-5	Digit 7	Digits 1-5	Digit 7
	S	SH809	С		
81610	М	30007	В	SH8/R09	Α
	Р	SH8/R09	Α		
	S	SH812	С		
81612	М	30012	В	SH8/R12	A
	Р	SH8/R12	Α		
	S	SH818	С	SH8/R18	A
81620	М	311010	В		
	P SH8/R18	Α			
	S	SH824 or 30	С		
81628	М	311024 01 30	В	SH8/R24	A
	Р	SH8/R24 or 30	Α	or 30	
	S	SH830	С		
81630	0 W 200		В	SH8/R30	A
	Р	SH8/R30	Α		
	S	SH836	С		
81636	М	30000	В	SH8/R36	A
	Р	SH8/R36	Α		

816-817 Controls to **SH8 Controls Conversion**

816-817 controls option	SH8 controls options
P- Standard (24V N.C. safeties) for use with CXM2 or DXM2.5	A-24V
M-Combination Controls	B-Electro- Mechanical
S-Standard (line voltage) 115V controls	C-Line-Voltage

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Existing Chassis to Replacement SH Series Water Connection Dimensions Chart

Models: SH 09-36

Existing Chassis Water Connection Sizes 816 to SH8

Existing Chassis		Replacement Chassis		
Model	Water Connection Size	Model	Water Connection Size	
*81610		SH809	1/2"	
*81615	1/2"	SH812	1/2	
*81620		**SH818	3/4"	
*81628		SH824		
*81630	3/4"	SH830	1"	
*81636		SH836		

^{*}All 816 chassis revision A-L require hose adapters be ordered upon replacement. See the hose adapter table below for which part numbers should be ordered at each size.
**All SH818 cahssi ship with 1/2" to 3/4" hose adapter

817 to SH8

Existing Chassis		Replacement Chassis		
Model	Water Connection Size	Model	Water Connection Size	
81709	1/2"	SH809	- 1/2"	
81712	1/2	SH812	1/2	
81724		SH824		
81730	1"	SH830	1"	
81736		SH836		

TRM to SHR

Existing Chassis		Replacement Chassis		
Model	Water Connection Size	Model	Water Connection Size	
TRM09	1/2"	SHR09	1/2"	
TRM12	1/2	SHR12	1/2	
TRM15	3/4"	SHR15	3/4"	
TRM18	3/4	SHR18	3/4	
TRM24		SHR24		
TRM30	TRM30 1"	SHR30	1"	
TRM36		SHR36		

TSM/L to SHM/S/C/D

Existing Chassis*		Replacement Chassis		
Model	Water Connection Size	Model	Water Connection Size	
TSM/L09	1/2"	SHM/S/C/D09	1/2"	
TSM/L12	1/2	SHM/S/C/D12	1/2	
TSM/L15	3/4"	SHM/S/C/D15	3/4"	
TSM/L18	3/4	SHM/S/C/D18	3/4	
TSM/L24		SHM/S/C/D24		
TSM/L30]"	SHM/S/C/D30	1"	
TSM/L36		SHM/S/C/D36		

^{*} All revisions

Hose Adapter Part Numbers

(applies when replacing existing 816 chassis Rev A-L only)

Existing chassis series and size	Replacement Series	Hose Adapter Part Number (required)	Hose Kit Part Number (optional)
81610-15 (rev A-L)	SH809-12	29S0019N01	AHH05024SC
*81620 (rev A-L)	SH818	29S0019N02	AHH07536SC
81628 (rev A-L)	SH824	29S0019N07	AHH10036SC
81630-36 (rev A-L)	SH830-36	29S0019N08	AHH10036SC

^{*} All SH818 replacement chassis ship with hose adapter 29S0019N02 as standard.

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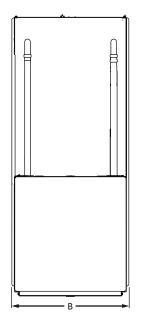
Chassis Dimensional Data

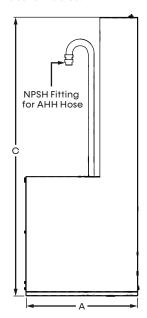
SH Chassis Dimensions

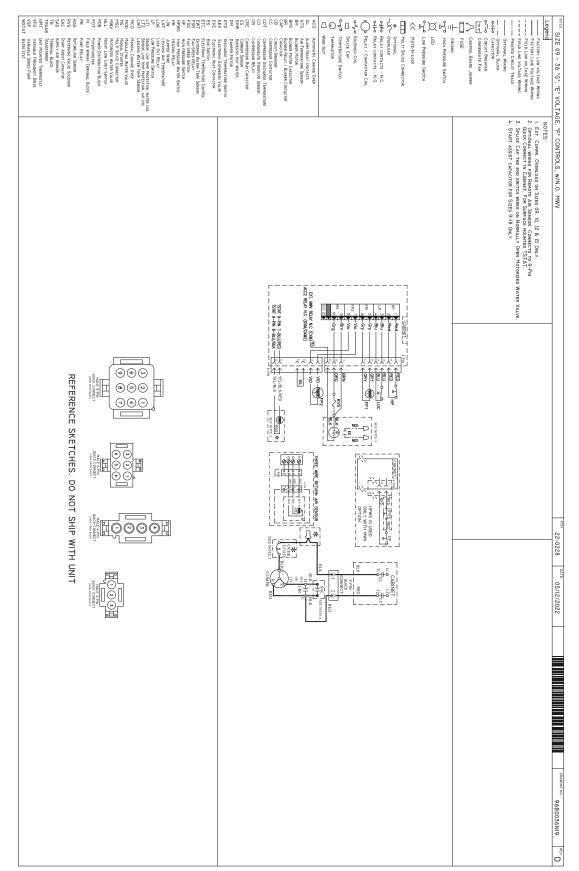
Legacy Chassis	Size	A	В	С
Series	3126			
	10	14.75	15.62	36.81
	15	14.75	15.62	36.81
816	20	17.56	18.62	
816	28	21.56	22.56	41.5
	30	21.56	22.56	41.5
	36	21.56	22.56	41.5
	9	14.75	15.62	36.81
	12	14.75	15.62	36.81
817	24	21.56	22.56	41.5
	30	21.56	22.56	41.5
	36	21.56	22.56	41.5
	9	14.75	15.62	39.53
	12	14.75	15.62	39.53
	15	17.56	18.62	43.56
TRM	18	17.56	18.62	43.56
	24	21.56	22.56	41.5
	30	21.56	22.56	41.5
	36	21.56	22.56	41.5
TSM/L	9	17	17.63	43.48
Rev A-B	12	17	17.63	43.48
	9	15.63	15.38	43.48
	12	15.38	15.38	43.48
	15	17	17.63	43.48
TSM/L Rev C	18	17	17.63	43.48
1.0 4 0	24	22	22.63	45.48
	30	22	22.63	45.48
	36	22	22.63	45.48

Replacement Chassis Series	Size	A	В	С
	9	14.75	15.62	36.81
	12	14.75	15.62	36.81
CLIO	18	17.56	18.62	
SH8	24	21.56	22.56	41.5
	30	21.56	22.56	41.5
	36	21.56	22.56	41.5
	9	14.75	15.62	36.81
	12	14.75	15.62	36.81
SH8	24	21.56	22.56	41.5
	30	21.56	22.56	41.5
	36	21.56	22.56	41.5
	9	14.75	15.62	*39.53
	12	14.75	15.62	*39.53
	15	17.56	18.62	43.56
SHR	18	17.56	18.62	43.56
	24	21.56	22.56	41.5
	30	21.56	22.56	41.5
	36	21.56	22.56	41.5
SHS/M	9	17	17.63	43.48
3П3//VI	12	17	17.63	43.48
	9	15.63	15.38	43.48
	12	15.38	15.38	43.48
	15	17	17.63	43.48
SHC/D	18	17	17.63	43.48
	24	22	22.63	45.48
	30	22	22.63	45.48
	36	22	22.63	45.48

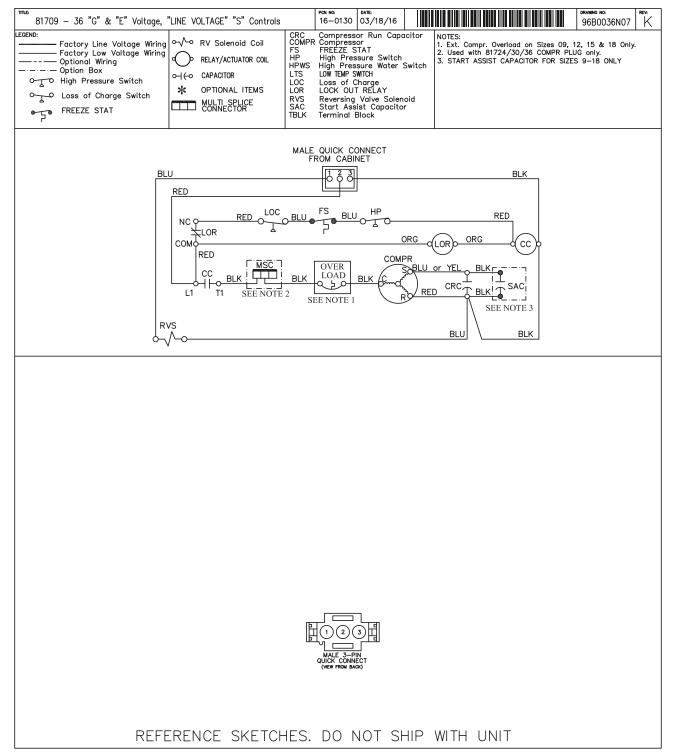
*With block off installed.



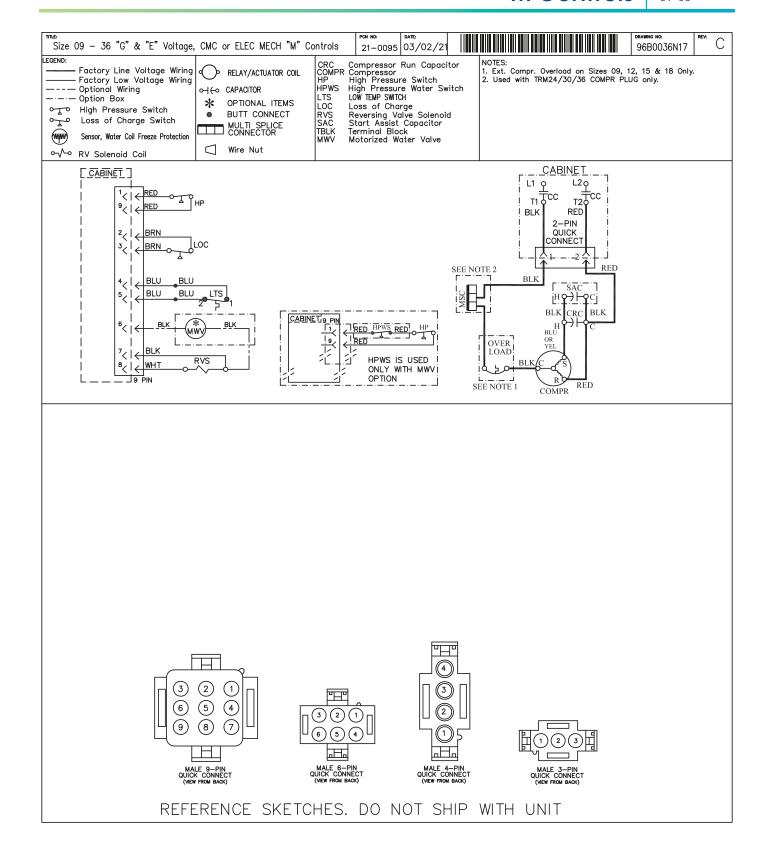


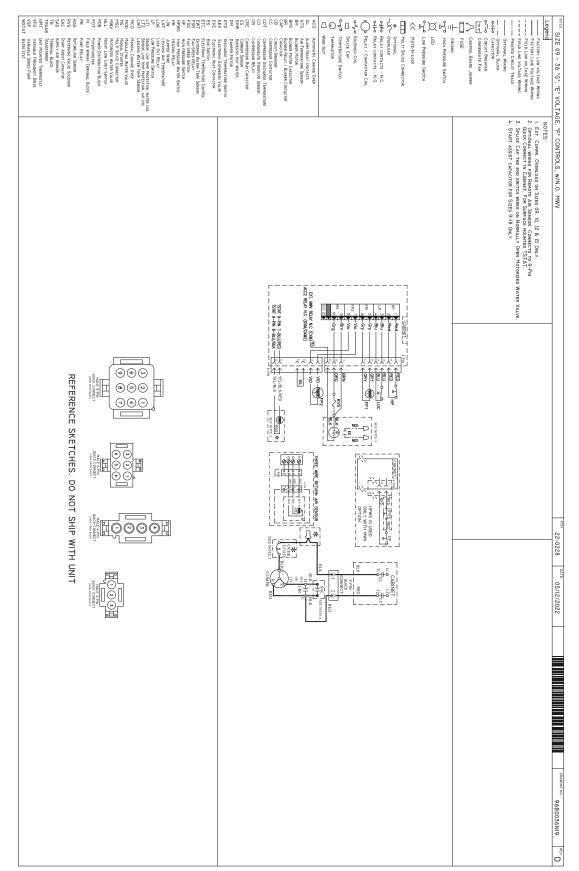


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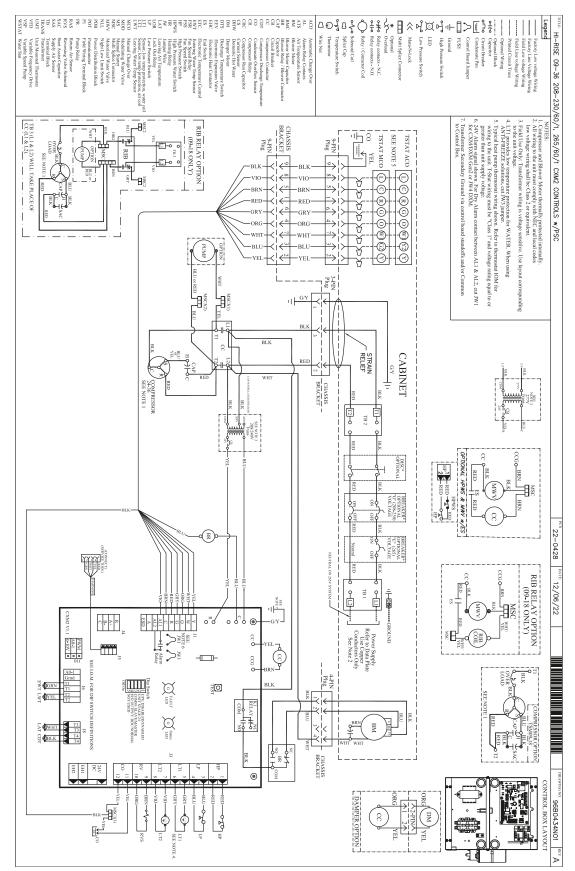


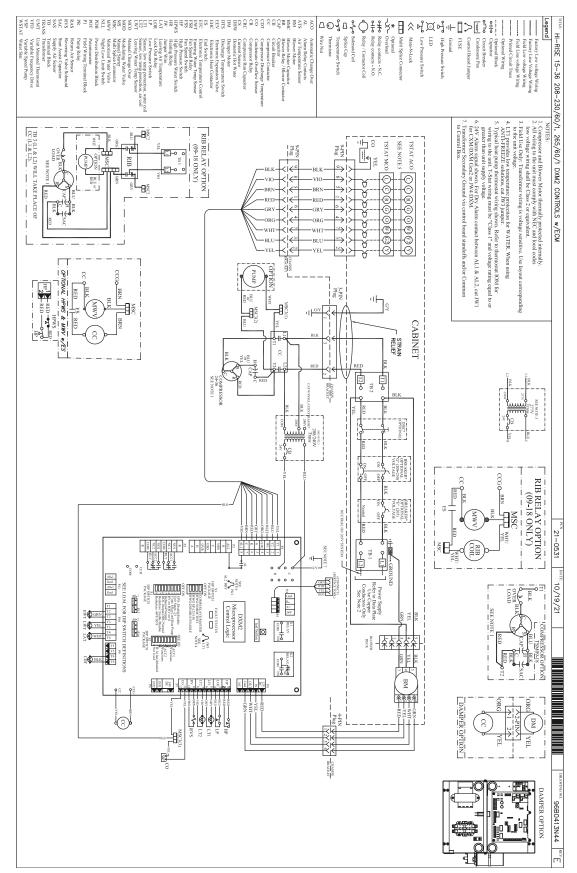
K	ADDED NOTE FOR SAC USED ON 81709-18	NW	16-0130	03/18/16	TN	CLIMATEMASTER OK CITY, OK 73179
J	REMOVED MOTORIZED WATER VALVE OPTION	DR	14-0219	04/23/14	JIM T.	OLIVIAI EVIASTER OR CITY, OR 73179
Н	REMOVED HTPS & ADDED OPTION FOR MWV w/HPWS	DR	14-0013	01/20/14	JIM T.	**** 817 CHASSIS 09-36
G	ADDED START ASSIST CAPACITOR	DR	11-0545	11/01/11	JIM T.	LINE VOLTAGE
F	UPDATED LEGEND, LOR & MWV. REMOVED MWV CHECK BOX	DR	11-0121	03/18/11	JIM T.	817 (S) CONTROLS
Ε	INITIAL RELEASE	DR	10-0380	08/10/10	JIM T.	DRAWING NO: 96B0036N07
REV	DESCRIPTION	BY	PCN	DATE	APPR	30000001107





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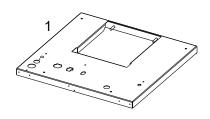
This kit upgrades the cabinet with new internal components. Your unit will now have latest compressor-protection technology.

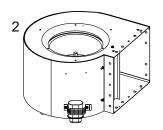
Optional for all models. If your old cabinet has fuses, you must order the kit with the breaker option. Verify the wiring to the unit is the correct gauge for current codes — if not keep old fuses. If the old cabinet had a disconnect, order the kit with the disconnect option. The return air panel may require modifications.

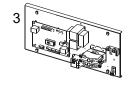
KIT CONTENTS

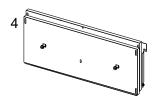
- 1. Sheet metal assembly mounting deck
- Blower assembly (motor, blower, housing, blower wheel and capacitor)
- 3. Control assembly (mounting plate, transformer, contactor, relay, terminal block CXM2 or DXM2.5 unit controller, and wiring)
- 4. Cabinet upper-airflow blockoff

Kit Components





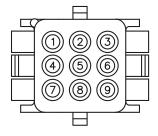




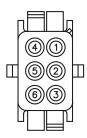
CONTROLS CONVERSION KIT (S11S0084N01)

When a replacement chassis is being used in an 816 style cabinet with "P" style controls only, a wire harness conversion kit is required. 816 style cabinets with "P" controls were offered with a singular 9-pin harness and utilized a gray FP1 thermistor for freeze protection in heating mode only. The later generation cabinets introduced a 6-pin wire harness combined with a 9-pin harness which added a violet FP2 thermistor for freeze protection during both heating and cooling modes of operation. The S11S0084N01 controls conversion kit includes a combination 12/9/6-pin wire harness, violet FP2 thermistor, and a wiring diagram for connection of the new Chassis Replacement to the existing legacy series cabinet.

9-pin Harness



6-pin Harness



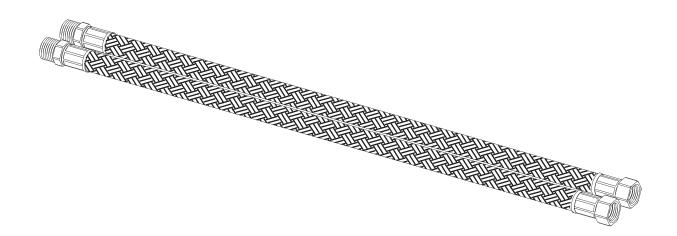
Cabinet Deck Kits - PSC Blower

Unit	208 /	230V	265V			
Size	CXM2 Part Number	DXM2.5 Part Number	CXM2 Part Number	DXM2.5 Part Number		
Cabine	Cabinet Power Termination: Terminal Block Only - Digit 7: "0"					
9	79S0040N01	79S0040N06	79S0040N11	79S0040N16		
12	79S0040N02	79S0040N07	79S0040N12	79S0040N17		
18	79S0040N03	79S0040N08	79S0040N13	79S0040N18		
24	79S0040N04	79S0040N09	79S0040N14	79S0040N19		
30 - 36	79S0040N05	79S0040N10	79S0040N15	79S0040N20		
Cabinet Power Termination: Disconnect - Digit 7: "A"						
9	79S0041N01	79S0041N06	79S0041N11	79S0041N16		
12	79S0041N02	79S0041N07	79S0041N12	79S0041N17		
18	79S0041N03	79S0041N08	79S0041N13	79S0041N18		
24	79S0041N04	79S0041N09	79S0041N14	79S0041N19		
30 - 36	79S0041N05	79S0041N10	79S0041N15	79S0041N20		
Cabine	Cabinet Power Termination: Circuit Breaker - Digit 7: "C"					
9	79S0042N01	79S0042N07	79S0042N21	79S0042N26		
12	79S0042N02	79S0042N08	79S0042N22	79S0042N27		
18	79S0042N03	79S0042N09	79S0042N23	79S0042N28		
24	79S0042N04	79S0042N10	79S0042N24	79S0042N29		
30	79S0042N05	79S0042N11	79S0042N25	79S0042N30		
36	79S0042N06	79S0042N12	/73UU4ZINZ3	/73004ZN30		

AHH Series Stainless Steel Braided Hose Kit

SPECIFICATIONS:

- Designed for water source heat pump applications.
- Reinforced EPDM core with ANSI 302/304 stainless steel outer braid.
- Fire rated materials per ASTM E 84-00 (NFPA 255, ANSI/UL 723 & UBC 8-1).
- NPT(E) (External Pipe Thread) fitting at one end; swivel with NPSH thread connector (Internal Thread) at the other end (seals via fiber or EPDM gasket, shipped inside connection).
- Swivel connection provides union between chassis and risers.
- Brass fittings, stainless steel ferrules.
- Temperature range of 15°F [9°C] to 180°F [82°C].
 (Operation below 32°F requires antifreeze)
- Max. working pressure of 300 psi [2,068 kPa].
- Min. burst pressure of four times working pressure.



Physical Data

Model	Part #	Inside Diameter inches	Length feet [cm]	Working Pressure psi [kPa]	Min. Burst Pressure psi [kPa]	Min. Bend Radius inches [mm]
SH809/12, SHR09/12	AHH05024SC	0.50	2 [61]	300 [2,068]	1,600 [11,024]	2.5 [63.5]
SH815/18, SHR15/18	AHH07536SC	0.75	3 [91]	300 [2,068]	1,600 [11,024]	4.5 [114.3]
SH824-36, SHR24-36	AHH10036SC	1.00	3 [91]	300 [2,068]	1,600 [11,024]	5.5 [139.7]

Hose Adapter Kit

Connects hard union piping to hose.

Hose Adapter Part Numbers (applies when replacing existing 816 chassis Rev A-L only)

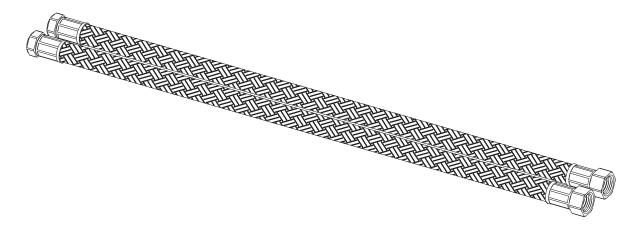
Existing chassis series and size	Replacement Series	Hose Adapter Part Number (required)	Hose Kit Part Number (optional)	
81610-15 (rev A-L)	SH809-12	29S0019N01	AHH05024SC	
*81620 (rev A-L)	SH818	29S0019N02	AHH07536SC	
81628 (rev A-L)	SH824	29S0019N07	AHH10036SC	
81630-36 (rev A-L)	SH830-36	29S0019N08	AHH10036SC	

^{*} All SH818 replacement chassis ship with hose adapter 29S0019N02 as standard.

AHU Series Stainless Steel Braided Hose Kit

SPECIFICATIONS:

- AHU hose kits used for connection with ClimateMaster standard ball valves.
- Designed for vertical high rise water-source heat pump applications.
- Reinforced EPDM core with ANSI 302/304 stainless steel outer braid.
- Fire rated materials per ASTM E 84-00 (NFPA 255, ANSI/UL 723 & UBC 8-1).
- Swivel connection provides union between chassis and riser shutoff.
- Brass fittings, stainless steel ferrules.
- Temperature range of 15°F [9°C] to 180°F [82°C].
 (Operation below 32°F requires antifreeze)
- Max. working pressure of 300 psi [2,068 kPa].
- Min. burst pressure of four times working pressure.



Physical Data

Model	Part #	Inside Diameter inches	Length feet [cm]	Working Pressure psi [kPa]	Min. Burst Pressure psi [kPa]	Min. Bend Radius inches [mm]
SHM/S/C/D09/12	AHU05036SC	0.50	3 [91]	300 [2,068]	1,600 [11,024]	3.56 [91]
SHM/S/C/D15/18	AHU75036SC	0.75	3 [91]	300 [2,068]	1,600 [11,024]	3.56 [91]
SHM/S/C/D24-36	AHU10036SC	1.00	3 [91]	300 [2,068]	1,600 [11,024]	4.29 [109]

Revision History

Date	Item	Action	
	Model Nomenclature	Updated other options.	
12/20/24	Performance Data	Updated Data. Removed note concerning high-speed motor TAP	
	Electrical Data	Updated Data, consolidated multiple tables into one.	
	Cabinet Kit	Added Table, "Cabinet Deck Kits - PSC Blower"	
10/22/24	Features, Options, and Accessories	Updated language used for each item	
	Performance Data	Updated metric units	
	Braided Hose Kits	Updated Maximum Water Working Pressures	
08/08/24	First Published		



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