Tranquility® Vertical Stack (817/TRM) Series

Submittal Data

Models 817 09 - 36 60Hz - HFC-410A







Linit Continuos

Vertical Stack 817/TRM Series

Offic reacures	3
Selection Procedure	4
Decoders for Old Models	6
TRM & 817 Series Nomenclature	7
Performance Data – Tested to ISO 13256-1	8
Physical Data	9
Chassis Dimensions – 817	10
Chassis Dimensions – TRM 09/12	11
Chassis Dimensions – TRM 15/18	12
Chassis Dimensions – 817/TRM 24/30/36	13
817/TRM to 816 Comparison	14
Wiring Diagrams	15
Cabinet Kit (79S004 Series)	19
AHH Series Stainless Steel Braided Hose Kit	20
Performance Sheet	21
Revision History	23



Document page number is shown next to part number (e.g. LC522 - 3 = page 3). Since not all pages are typically used in the submittals process, the page number in the lower right corner can still be used (page ____of____).

TRANQUILITY® VERTICAL STACK (817/TRM) SERIES WITH EARTHPURE® REFRIGERANT

The Tranquility® Vertical Stack (817/TRM) Series replacement chassis offers quick replacement of the old chassis without having to tear out existing cabinets or modifying riser stacks. Keeping your old cabinet means no sheet rock removal and repair. 817/TRM replacement chassis slide into most existing California Heat Pump (CHP) and ClimateMaster cabinets. Accessory kits available: water adapter kit to convert hard union water piping to hose connection; cabinet kit to upgrade deck, blower assembly, motor, P Controls; and hose kit. The 817/TRM Series exceeds ASHRAE 90.1 efficiencies. Using EarthPure® (HFC-410A) refrigerant, the 817/TRM Series not only protects the environment, it does so while delivering unprecedented comfort, efficiency, and reliability.

Available in sizes 3/4 ton (2.6 kW) through 3 tons (10.6 kW). ClimateMaster's exclusive double isolation compressor mounting system makes the 817/TRM Series 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 vibration isolation grommets for maximized vibration/sound attenuation.

In some replacements are best suited for 817 model chassis while others are TRM. The Climatemaster replacement chassis will select the best match for each application.

UNIT FEATURES

- Sizes 09 (3/4 ton, 2.6 kW) through 36 (3 ton, 10.6 kW)
- Environmentally-friendly EarthPure® (HFC-410A) zero ozone depletion refrigerant
- High efficiency rotary and scroll compressors
- Exceeds ASHRAE 90.1 efficiencies
- Unique double isolation compressor mounting for quiet operation
- UltraQuiet construction (optional to delete)
- TXV metering device
- Wide variety of chassis options including stainless steel drain pan, coated air coil, insulated tubing for extended range operation, autoflow regulator, motorized water valve either fail-opened or fail-closed and cupro-nickel coaxial heat exchanger

ACCESSORY KITS / OPTIONS

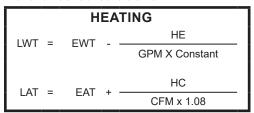
- Cabinet deck/blower assembly/P control kits for old cabinet 10, 15, 28, 30, 36 - optional
- Cabinet deck/blower assembly/P control kit for old cabinet 20, for old size 20 the kit is mandatory.
- Water adapter kit converts hard union connection to hose connection.
- Hose kits connect new chassis to water connection.
- Return air panel may be required.
- Thermostat may be required.

Note: Many different styles of return air panels have been sold. Some panels will require field modification for attachment to new chassis. Recommended to purchase new style return air panel. ClimateMaster is not responsible or liable for any modifications to panels or walls required to securely attach return air panel.

Some models will require a new thermostat if controls are changed.

Selection Procedure

Reference Calculations



COOLING						
IWT =	FWT	_	HR	1.0	_	TC - SC
LVVI -	LVVI		GPM x Constant	LO	_	10-30
LAT(DD) -	EAT (DD)		SC	C/T	_	SC
LAT (DB) =	EAI (DB)	-	CFM x 1.08	3/1		TC

Constant = 500 for water, 485 for antifreeze

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

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

Legend and Glossary of Abbreviations

Abbreviations	Descriptions
BTUH	BTU (British Thermal Unit) per hour
CDT	Compressor discharge temperature
CFM	Airflow, cubic feet per minute
СОР	Coefficient of performance = BTUH output/BTUH input
CT ECM	Electronic commutated constant torque fan motor
CV ECM	Electronic commutated constant volume fan motor
DB	Dry bulb temperature, °F
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
НС	Air heating capacity, BTUH
HE	Total heat of extraction, BTUH
HR	Total heat of rejection, BTUH
HWC	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
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

Selection Procedure

- Step 1 Determine the actual heating and cooling loads at the desired dry bulb and wet bulb conditions.
- Step 2 Obtain the following design parameters: Entering water temperature, water flow rate in GPM, air flow in CFM, water flow pressure drop and design wet and dry bulb temperatures. Air flow CFM should be between 300 and 450 CFM per ton. Unit water pressure drop should be kept as close as possible to each other to make water balancing easier. Go to the appropriate tables and find the proper indicated water flow and water temperature.
- Step 3 Select a unit based on total and sensible cooling conditions. Select a unit which is closest to, but no larger than, the actual cooling load.
- **Step 4** Enter tables at the design water flow and water temperature. Read the total and sensible cooling capacities (Note: interpolation is permissible, extrapolation is not).
- Step 5 Read the heating capacity. If it exceeds the design criteria it is acceptable. It is quite normal for Water-Source Heat Pumps to be selected on cooling capacity only since the heating output is usually greater than the cooling capacity.
- **Step 6** Determine the correction factors associated with the variable factors of dry bulb and wet bulb.

Corrected Total Cooling = tabulated total cooling x wet bulb correction.

Corrected Sensible Cooling = tabulated sensible cooling x wet/dry bulb correction.

- Step 7 Compare the corrected capacities to the load requirements. Normally if the capacities are within 10% of the loads, the equipment is acceptable. It is better to undersize than oversize, as undersizing improves humidity control, reduces sound levels and extends the life of the equipment.
- Step 8 When completed, calculate water temperature rise and assess the selection. If the units selected are not within 10% of the load calculations, then review what effect changing the GPM, water temperature and/or air flow and air temperature would have on the corrected capacities. If the desired capacity cannot be achieved, select the next larger or smaller unit and repeat the procedure. Remember, when in doubt, undersize slightly for best performance.

Example Equipment Selection For Cooling Step 1 Load Determination:

Assume we have determined that the appropriate cooling load at the desired dry bulb 80°F and wet bulb 65°F conditions is as follows:

Total Cooling	15,100 BTUH
Sensible Cooling	10,500 BTUH
Entering Air Temp	80°F Dry Bulb / 65°F Wet Bulb

Step 2 Design Conditions:

Similarly, we have also obtained the following design parameters:

Entering Water Temp	90°F
Water Flow (Based upon 10°F rise in temp.)	4.5 GPM
Air Flow51	5 CFM

Step 3, 4 & 5 HP Selection:

After making our preliminary selection (TRM18), we enter the tables at design water flow and water temperature and read Total Cooling, Sens. Cooling and Heat of Rej. capacities:

Total Cooling	16,800 BTUH
Sensible Cooling	12,500 BTUH
Heat of Rejection	21.300 BTUH

Step 6 & 7 Entering Air and Airflow Corrections:

Next, we determine our correction factors.

	<u>Table</u>	Ent Air	<u> Air Flow</u>	Corrected
Corrected Total	Cooling =	= 16,800	x 0.957 x	0.934 = 15,016
Corrected Sens	Cooling =	= 12,500	x 1.093 x	0.833 = 11,381
Corrected Heat	of Rej. =	21,300 x	0.970×0	0.952 = 19,669

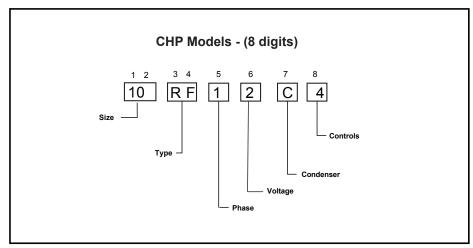
Step 8 Water Temperature Rise Calculation & Assessment:

Actual Temperature F	Rise	8	.9	0	F	:
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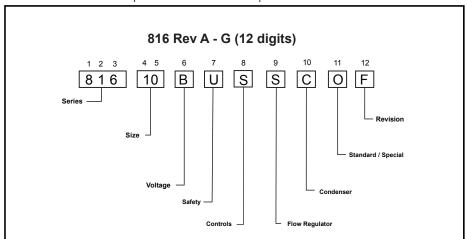
When we compare the Corrected Total Cooling and Corrected Sensible Cooling figures with our load requirements stated in Step 1, we discover that our selection is within +/- 10% of our sensible load requirement. Furthermore, we see that our Corrected Total Cooling figure is slightly undersized as recommended, when compared to the actual indicated load.

To select your replacement unit and accessories, use software program located on the business center at climatemaster.com

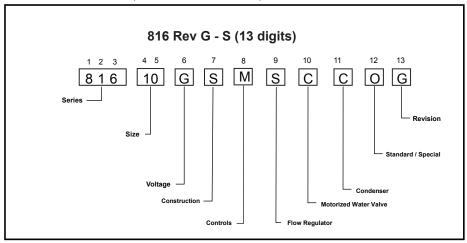
* Note - DO NOT TRY TO USE ATTACHED DECODERS



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

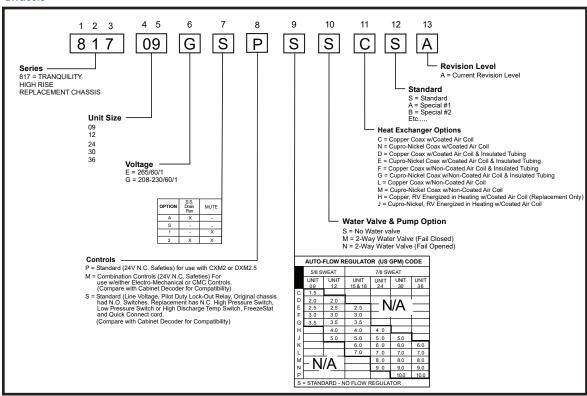


Decoder for reference only - Use 816 to 817(TRM) Conversion Program to obtain correct replacement model and required accessories.

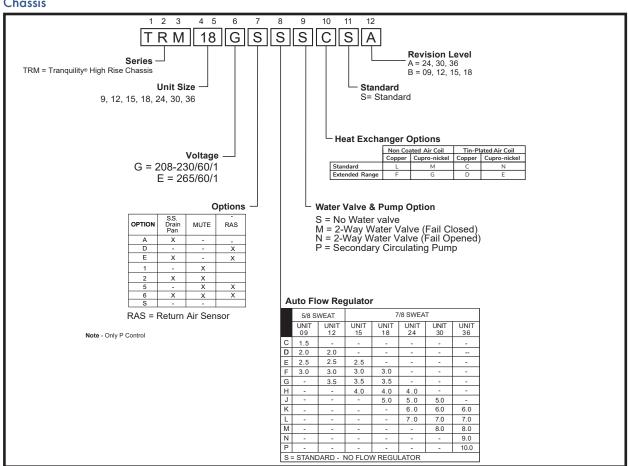


Decoder for reference only - Use 816 to 817(TRM) Conversion Program to obtain correct replacement model and required accessories.

Chassis



Chassis



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LC522 - 7

Performance Data - Tested to ISO 13256-1

Tested to ISO 13256-1. English (I-P) Units

	Water Loop Heat Pump				
Model	Cooling 86°F		Heating	68°F	
	Capacity Btuh			СОР	
817 09	8,800	13.0	12,500	4.6	
817 12	11,600	13.0	15,800	4.5	
TRM 18	16,700	13.0	22,600	4.7	
817/TRM 24	22,100	13.0	29,400	4.5	
817/TRM 30	27,100	13.0	33,100	4.6	
817/TRM 36	32,000	12.5	39,500	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 units shipped on high speed motor TAP

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

Tested to ISO 13256-1. Metric (S-I) Units

	Water Loop Heat Pump				
Model	Cooling 30°C Capacity EER kW W/W		Heating	20°C	
			Capacity kW	СОР	
817 09	2.58	3.8	3.66	4.6	
817 12	3.40	3.8	4.63	4.5	
TRM 18	4.89	3.8	6.62	4.7	
817/TRM 24	6.48	3.8	8.62	4.5	
817/TRM 30	7.94	3.8	9.70	4.6	
817/TRM 36	9.38	3.7	11.58	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 units shipped on high speed motor TAP

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

Electrical Data

Model	Voltage Code	Voltage	Min/Max Voltage	Comp	ressor	
	Code		voitage	RLA	LRA	
817 09	G	208- 230/60/1	197/254	4.7	23	
817 12	G	208- 230/60/1	197/254	5.3	30	
TRM 18	G	208- 230/60/1	197/254	6.6	33	
817/TRM 24	G	208- 230/60/1	197/254	12.8	58.3	
817/TRM 30	G	208- 230/60/1	197/254	12.8	64	
817/TRM 36	G	208- 230/60/1	197/254	14.1	77	
817 09	Е	265/60/1	239/292	3.5	22.0	
817 12	Е	265/60/1	239/292	4.2	22.0	
TRM 18	E	265/60/1	239/292	5.6	28.0	
817/TRM 24	Е	265/60/1	239/292	13.5	47.5	
817/TRM 30	Е	265/60/1	239/292	13.5	52.0	
817/TRM 36	E	265/60/1	239/292	14.8	62.8	

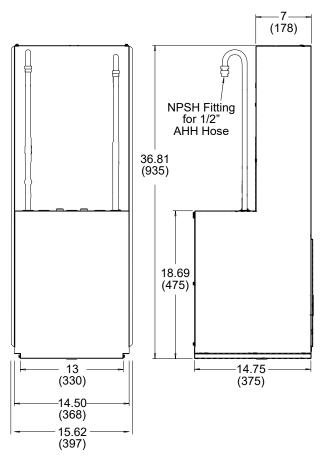
VERIFY ELECTRICAL SERVICE IS ADEQUATE FOR NEW CHASSIS.

Model	09	12	18*	24*	30*	36*	
Compressor (1 Each)	Rotary			Scroll			
Factory Charge HFC-410A (oz) [kg]	33.5 [0.95]	34 [0.96]	48.5 [1.38]	71 [2.01]	75 [2.13]	75 [2.13]	
COAX							
Internal Volume U.S. Gallon (L)	.22 (.84)	.26 (.98)	.37 (1.40)	.60 (2.27)	.60 (2.27)	.60 (2.27)	
Hose Kit (AHH Series Required)	Hose Kit (AHH Series Required)						
FPT (in)	1/2	1/2	3/4	1	1	1	
Drain Hose	Drain Hose						
Internal Diameter In (mm)	.875 (22.2)						
Chassis Air Coil	Chassis Air Coil						
Standard Filter - 1" [25.4mm] Throwaway, qty (in) [mm]	14 x 24 [356 x 610]	14 x 24 [356 x 610]	16 x 30 [406 x 762]	20 x 32 [508 x 813]	20 x 32 [508 x 813]	20 x 32 [508 x 813]	
Weight	Weight						
Chassis - (lbs) [kg]	90 [41]	97 [44]	115 [52]	176 [80]	182 [83]	182 [83]	

^{*18} is TRM and 24-36 can be 817 or TRM depending on controls.

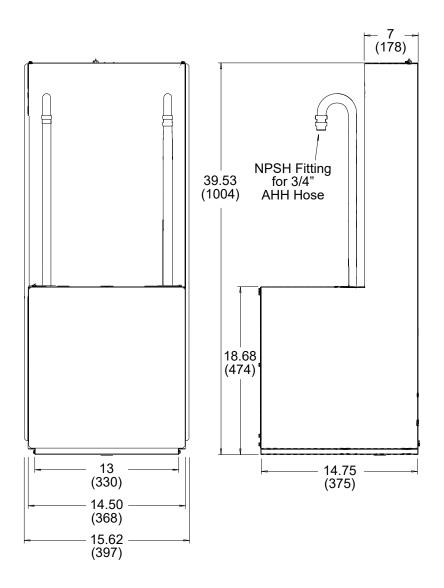
Unit Maximum Water Working Pressure					
Options	Max Pressure PSIG [kPa]				
Base Unit	300 [2,068]				
Internal Secondary Pump (ISP)	145 [999]				
Internal Motorized Water Valve (WMV)	300 [2,068]				
Internal Auto Flow Valve	300 [2,068]				

Old Chassis	New Chassis				
Old Chassis	Without Cabinet Kit	With Cabinet Kit			
816 10 S	8179S				
816 10 M	81709M	81709P			
816 10 P	81709P				
816 15 S	81712S				
816 15 M	81712M	81712P			
816 15 P	81712P				
816 20 S,M,P	N/A	TRM18			
816 28 S	81724S				
816 28 M	81724M	TRM24			
816 28 P	TRM24				
816 30 S	81730S				
816 30 M	81730M	TRM30			
816 30 P	TRM30				
816 36 S	81736S				
816 36 M	81736M	TRM36			
816 36 P	TRM36				



817 09/12

(For 816 10/15 cabinet)

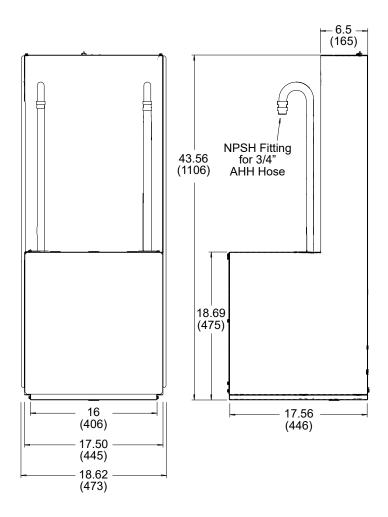


TRM 09/12

(For TRM 09/12 cabinet)

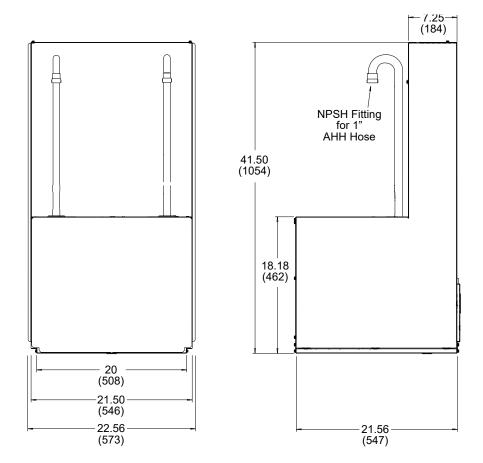
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LC522 - 11 -



TRM 15/18

(For TRM 15/18 cabinet, TRM 18 is also for 816 20 cabinet and requires a cabinet conversion kit)



817/ TRM 24/30/36

(For TRM 24/30/36 cabinet, for 816 28/30/36 cabinet)

817/TRM to 816 Comparison

	Cabinet (in)	WLHP				
Model		Cooling		Heating		Hose Diameter (IN)
		CAP	EER	CAP	СОР	
81709		8800	13	12500	4.6	0.5
81610	17x17	8500	11.6	11500	4.2	0.5
81712		11600	13	15800	4.5	0.5
81615		12000	12.3	14700	4.2	0.5
TRM18	20x20	16700	13	22600	4.7	0.75
81620		18500	12	23600	4.2	0.5
817/TRM24		22100	13	29400	4.5	1
81628		25200	12	32000	4.2	0.75
817/TRM30	24x24	27100	13	33100	4.6	1
81630		28100	12.5	36000	4.2	0.75
817/TRM36		32000	12.5	39500	4.6	1
81636		32600	12.5	42500	4.2	0.75

Not recommended to increase model within your cabinet size

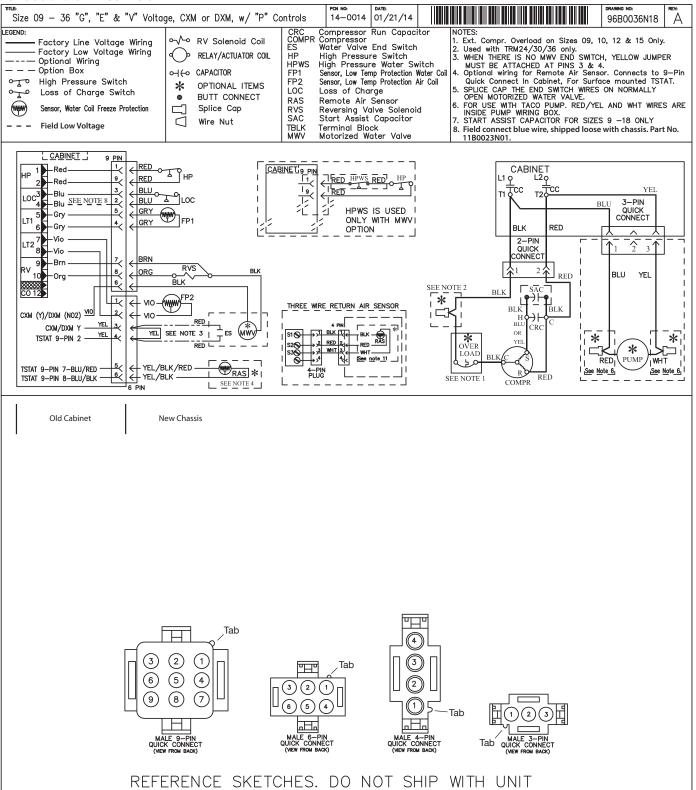
817 Series Wiring Diagram Matrix

All diagrams can be located online at climatemaster.com using the part numbers presented below

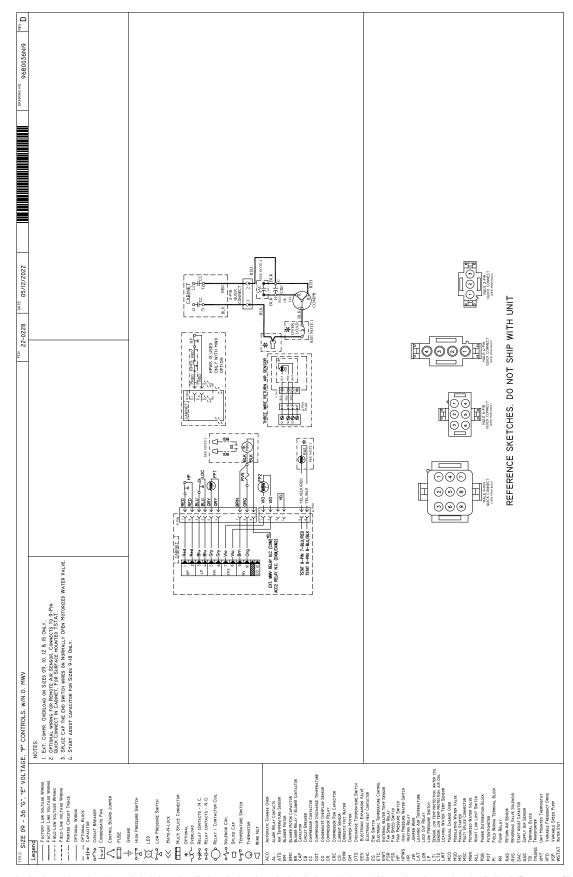
Model	Refrigerant	Wiring Diagram Part Number	Electrical	Control	Agency	
		96B0036N18		"P" Controls (Standard/FC MWV)		
817 09-36	EarthPure® (HFC-410A)	96B0036N19	208-230/1/60, 265/1/60	"P" Controls (FO MWV)	ETL	
		96B0036N07		"S" Controls		
		96B0036N17		"M" Controls		

Wiring Diagrams

96B0036N18 - P Controls

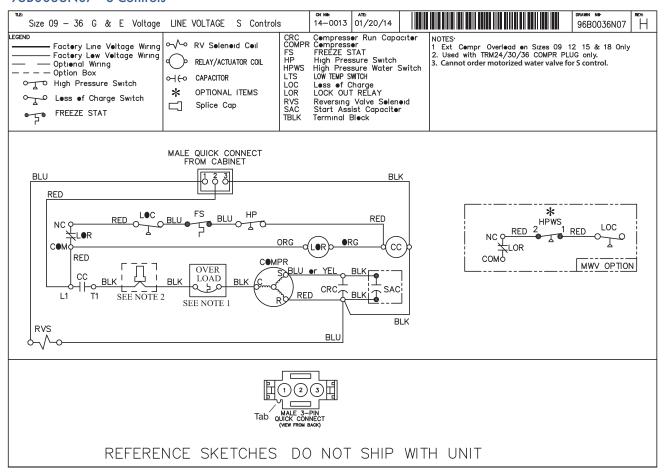


96B0036N19 - P Controls Normally-Open MWV



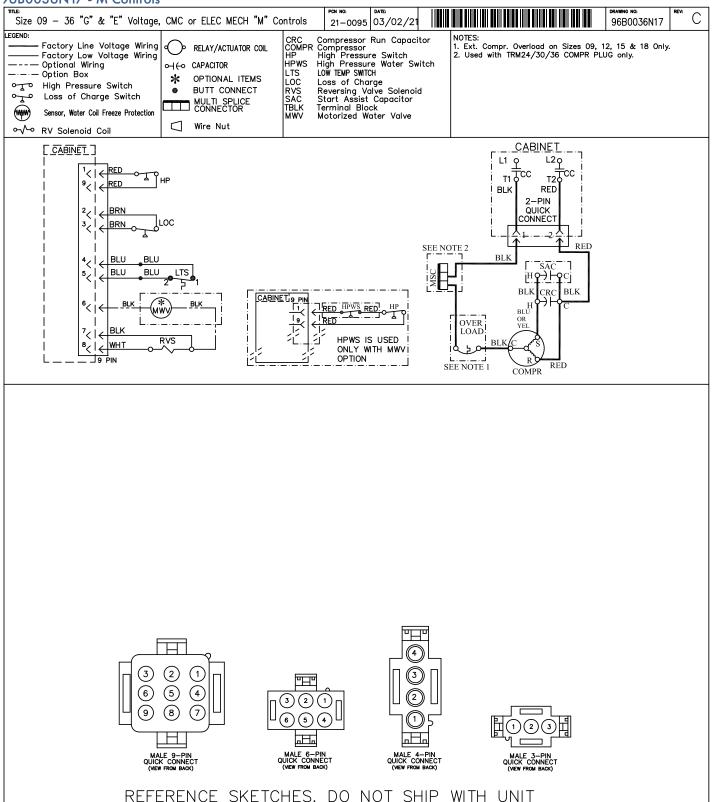
Wiring Diagrams

96B0036N07 - S Controls



Wiring Diagrams

96B0036N17 - M Controls

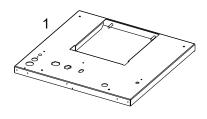


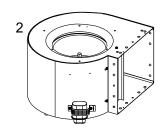
Cabinet Kit (79S004 Series)

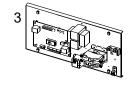
Note: Make sure line voltage matches old cabinet. Using cabinet kit makes controls P(24VAC). Check new chassis has P controls.

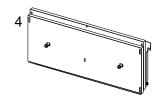
Kit will upgrade cabinet with new internal components. Your unit will now have latest compressor protection technology. Optional for all models except 20's manditory. If old cabinet had fuses, must order kit with breaker option, verify wiring to unit is correct gauge for current codes — if not keep old fuses. If old cabinet had disconnect order kit with disconnect option. Return air panel may require modifications.

- 1 Deck
- 2 Blower assembly (motor, blower, housing, blower wheel and capacitor)
- 3 Control assembly (mounting plate, transformer, contactor, relay, terminal block CXM2 or DXM2.5, and wiring), and
- 4 Upper blockoff.



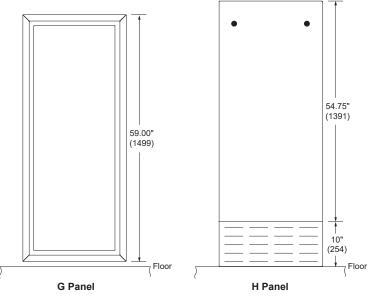






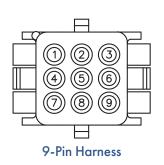
Return Air Panel (AVHSG Series or AVHSH Series)

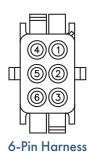
Optional to order new panel, for correct fit, check dimension from front of cabinet to front of finished wall for G Panel must be 1.25" (32mm) to 2.25" (57mm); for H Panel must be 4" (101) or more. See TRM Submittal for rough opening and other dimensions. Cabinet may require modifications to mount new panel (must be secure).



Controls Conversion Kit (\$1150084N01)

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 replacement chassis to the existing legacy series cabinet.

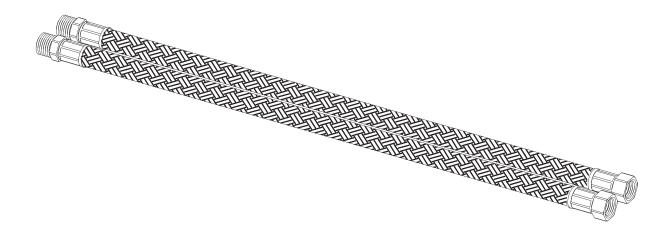




AHH Series Stainless Steel Braided Hose Kit

Specifications:

- Designed for VHS water source heat pump applications.
- Kevlar® 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 400 psi [2756 kPa].
- Min. burst pressure of four times working pressure.

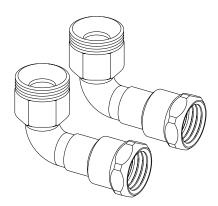


Physical Data

Unit	Part #	Inside Diameter inches	Length feet [cm]	Working Pressure psi [kPa]	Min. Burst Pressure psi [kPa]	Min. Bend Radius inches [mm]
09, 12	AHH05024SC	0.50	2 [61]	400 [2756]	1600 [11024]	2.5 [63.5]
15, 18	AHH07536SC	0.75	3 [91]	400 [2756]	1600 [11024]	4.5 [114.3]
24-36	AHH10036SC	1.00	3 [91]	400 [2756]	1600 [11024]	5.5 [139.7]

Hose Adapter Kit

Connects hard union piping to hose.



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Btuh

Btuh

°F

°F

°F

°F

°F

CFM

(lb)

Volts

Hz

SUBMITTAL DATA - S-I UNITS	SUBMITTAL DATA - I-P UNITS
Unit Designation:	Unit Designation:
Job Name:	Job Name:
Architect:	Architect:
Engineer:	Engineer:
Contractor:	Contractor:
PERFORMANCE DATA	PERFORMANCE DATA
Cooling Capacity: <u>kW</u>	Cooling Capacity:
EER:	EER:
Heating Capacity: <u>kW</u>	Heating Capacity:
COP:	COP:
Ambient Air Temp:°C	Ambient Air Temp:
Entering Water Temp (Clg):°C	Entering Water Temp (Clg):
Entering Air Temp (Clg): <u>°C</u>	Entering Air Temp (Clg):
Entering Water Temp (Htg):°C	Entering Water Temp (Htg):
Entering Air Temp (Htg):°C	Entering Air Temp (Htg):
Airflow: <u>I/s</u>	Airflow:
an Speed or Motor/RPM/Turns:	Fan Speed or Motor/RPM/Turns:
Operating Weight:(kg)	Operating Weight:
ELECTRICAL DATA	ELECTRICAL DATA
Power Supply: Volts	Power Supply:
Phase Hz	Phase
Minimum Circuit Ampacity:	Minimum Circuit Ampacity:
Maximum Overcurrent Protection:	Maximum Overcurrent Protection:
	1 1

Notes

Revision History

Date:	Item:	Action:	
02/28/23	Transitioned from CXM to CXM2 and DXM to DXM2.5 controls on in a cabinet deck kits	Updated	
03/11/22	Added TRM size 09/12 chassis dimensions	Updated page 10	
01/12/22	Added Controls Conversion Kit section for 816 cabinets with "P" controls	Added to Page 17	
09/10/21	Hose Kit Model Nomenclature	Updated	
08/13//21	Updated 2-Way Water Valve description to "Fail Closed". Added 2-Way Water Valve "Fail Opened" options to TRM and 817 series products	Updated	
09/18/19	3,4,and 13	Added references to TRM, updated text	
11/15/16	Document Design Update	Updated	
02/05/15	Edits - Page 16	Updated	
02/27/14	Text & Wiring Diagrams	Updated	
07/11/13	All Pages	Updated	
11/15/11	817 Chassis Nomenclature Cabinet Kit	Updated	
08/09/11	Unit Maximum Working Water Pressure	Updated to Reflect New Safeties	
01/03/11	Format - All Pages	Updated	
07/29/10	Wiring Diagrams	Updated	
07/26/10	Wiring Diagrams	Updated	
07/26/10	Compressor Mounting Information and Graphics	Updated to Reflect Spring/Grommet Change	
00/00/40	Unit Features	Updated	
06/28/10	Electrical Data	Added Note for New Chassis	
06/11/10	Format - All Pages	Updated	
06/11/10	Engineering Specifiations	Updated	
05/20/10	Created	Created	



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