

S16 CHASSIS SERIES

Replacement Chassis for ClimateMaster 816 and 817 Series



The Shorefit® S16 replacement chassis is designed to replace ClimateMaster 816 and 817 units. They are available in nominal ¾, 1, 1½, 2, 2½ and 3 ton capacities. As part of a complete system, the Shorefit® S16 unit is engineered to fit into the existing cabinet space with matching electrical/water connections as the original unit. Each unit utilizes quality energy efficient components and is tested in our psychrometric room to confirm safety, reliability and performance at multiple operating conditions. The extensive list of unit features includes:

- Low pressure drop air coil
- Stainless steel drain pan
- Refrigerant circuit access ports
- Compressor protection
- Low and high temperature protection
- Low and high pressure protection
- Environmentally friendly refrigerant
- ETL listed for safety and construction

APPLICATION & BENEFITS

The Shorefit® S16 series is designed to work with the existing blower section and can be ordered with a control and wiring configuration to match specific projects. Vertical stack units can incorporate special configurations not identified in the model number. Tools are available to assist in gathering this additional information.

Low Sound Level

The refrigeration chassis includes a compressor that incorporates engineered vibration isolators installed on a heavy gauge base with a mounting system to maximize vibration dampening. A sound dampening enclosure constructed of heavy gauge metal lined with acoustical insulation encases the refrigeration circuit.

Fast and Easy Replacement

The refrigeration chassis consists of the compressor, air coil, water coil, reversing valve, expansion device, filter-dryer and safety controls designed for easy removal after disconnecting hoses and a polarized electrical power plug.

Damage Protection

Units are provided with high pressure, low pressure and low water temperature safety controls configured in a lockout circuit to prevent damage to the compressor. The compressors are wired with either internal or external overload protective devices.

Common Options and Accessories*

- Heat Pump, Cool Only and Boilerless
 - Geothermal Construction
 - Automatic Flow Control Valve
 - Electric Two-Way Valve
 - Electro-Mechanical Controls
 - Fan Housing Motor Assemblies
 - Return Air Panels
 - Hose Kits
 - Unit Power Voltage
 - Air Filters
- * varies by project

Warranty

All units are provided with a 12-month parts warranty (from date of ship) for all components.

Note: The replacement chassis performance is based on providing the proper airflow through new chassis. Existing fan assemblies affect airflow due to corrosion and caked-on dirt. Fan motors affect airflow due to age or improper specifications. Cleaning / repair / replacement of blowers is required prior to installation of new chassis. New fan/motor assemblies allow your replacement chassis to perform properly for years to come.



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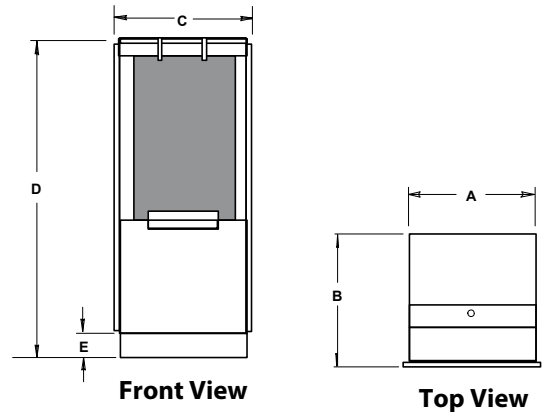
Performance Ratings - Shorefit® S16 Chassis

Model	Rated CFM	Minimum CFM	GPM	Water Loop Heat Pump			
				Cooling 86°F		Heating 68°F	
				Capacity Btuh	EER Btuh / W	Capacity Btuh	COP
030	320	220	2.2	9,200	14.3	10,800	4.7
040	420	280	3.2	12,200	14.7	14,700	5.2
060	690	470	4.9	18,400	15.7	23,700	5.5
080	920	650	6.4	25,800	15.0	30,200	4.8
100	1,000	680	7.3	28,600	13.5	36,100	4.5
120	1,170	780	8.4	35,000	13.5	44,700	4.5

Cooling based upon 80.6°F DB, 66.2°F WB entering air temperature. Heating based upon 68°F DB, 59°F WB entering air temperature. Includes 475 Btu/1000 CFM fan heat and 140 watts/1000 CFM fan power, plus water pumping power. 208V data shown. 265V ratings may vary.

Unit Sizes

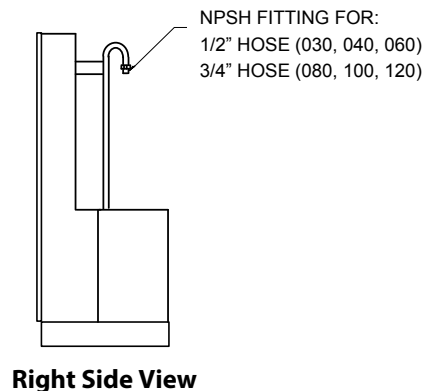
Model	A	B	C	D	E	Unit Weight (lbs)	Unit Packaging W x D x H	Filter Size
	Inches						Inches	
030	14.4	15.4	15.3	36.5	3.1	92	16.5 x 19.2 x 40.0	14 x 20 x 1
040	14.4	15.4	15.3	36.5	3.1	94	16.5 x 19.2 x 40.0	14 x 20 x 1
060	17.4	18.5	18.4	41.0	4.0	174	20.0 x 21.0 x 42.7	17 x 24 x 1
080	21.6	22.5	22.6	41.1	4.1	192	23.0 x 23.0 x 53.5	21 x 26 x 1
100	21.6	22.5	22.6	41.1	4.1	195	23.0 x 23.0 x 53.5	21 x 26 x 1
120	21.6	22.5	22.6	41.1	4.1	198	23.0 x 23.0 x 53.5	21 x 26 x 1



Electrical Data

Size (Tons)	Compressor Type	Voltage Volt-Hz-Ph	Compressor		Voltage Limitations		Total Amps	Minimum Circuit Ampacity	MOPD
			RLA*	LRA	Min	Max			
030 (0.75)	Rotary L	208-60-1	5.1	22.0	197	252	See Calculation Note Below		
		230-60-1							
		265-60-1							
040 (1.00)	Rotary L	208-60-1	6.4	25.0	197	252			
		230-60-1							
		265-60-1							
060 (1.50)	Rotary L	208-60-1	7.7	38.0	197	252			
		230-60-1							
		265-60-1							
080 (2.00)	Reciprocating B	208-60-1	7.4	43.0	197	252			
		230-60-1							
		265-60-1							
100 (2.50)	Reciprocating B	208-60-1	9.9	54.0	197	252			
		230-60-1							
		265-60-1							
120 (3.00)	Reciprocating B	208-60-1	13.0	74.0	197	252			
		230-60-1							
		265-60-1							

*Note: Chassis compressor only - Does not include fan/motor or electric heat loads. Use this value with the cabinet loads to calculate minimum power supply circuit ampacity (Clause 37.14 of UL 1995 4th Ed) and maximum current rating of overcurrent protection (Clause 37.15 of UL 1995 4th Ed).



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