

# Self-Contained Units

## DIRECT EXPANSION



SXF10-1 Model Shown

## Features

- Redesigned in 2003 for an even smaller footprint
- Now includes a return air filter and remote electric box
- 5,000 - 24,000 Btu/hour
- Low profile, compact unit
- Reverse cycle for heating and cooling
- High efficiency rotary (5-16K) or scroll (24K) compressors
- 115V & 230V, 50/60 Hz, and 240V, 50 Hz units available

### SXF Models

- SMX II Power/Logic box included on unit
- Pre-installed temperature sensor
- Use with the SMXir or SMXIIAB keypad/display (not included)

### SHF Models

- Use with SSA type 3-knob switch assembly (not included)

## StowAway SHF and SXF Models

The *StowAway F* is a series of reverse cycle, self-contained marine air conditioners. All models offer direct expansion operation in a compact, low profile unit, with a seawater-cooled condenser and a choice of controls.

The StowAway F unit is designed to be installed under a settee or berth, in a locker or cabinet, or other convenient location. A return air grill is typically located close to the unit, with the discharge air ducted to a supply air grill high in the cabin.

SHF and SXF units are complete air conditioners, and includes the following components: compressor, condenser, evaporator, blower, reversing valve, high pressure safety switch, return air filter, run capacitor, wiring harness, electrical junction box, and a mounting kit with hold-down clamps and drain fittings. A condensate drain pan surrounds the entire base of the unit and acts as the mounting chassis.

High efficiency rotary compressors offer quiet operation and light weight, with low starting and running power requirements. The 24,000 Btu/hr unit uses an efficient scroll compressor.

The unique seawater condenser design places it in the blower shroud to minimize unit size. The condenser coil is constructed of spiral, fluted cupronickel encased in a copper shell. The evaporator coil has rifled tubing and lanced fins to increase heat transfer between the cabin air and the refrigerant.

The squirrel cage blower is insulated to prevent secondary condensation and reduce noise. The blower can be rotated from horizontal to vertical discharge for flexible installation.

Two different "F" type StowAway models are available, each with a different control. SHF units are used with the SSA3 type 3-knob switch assembly, which is sold separately. SXF units include the SMX II power/logic box and temperature sensor, and are used with the SMXir or SMXIIAB keypad/display. The display and cables are sold separately.

StowAway units are designed for easy installation and serviceability. All units are pre-charged with R-22 refrigerant, eliminating the need for field charging, and are fully tested at the factory. *Units charged with R-417A (non HCFC) refrigerant are also available.*

Sizes are available in 5,000 to 24,000 Btu/hr, and for operation on 115VAC or 230VAC, 50 or 60 Hz. Full performance 240VAC, 50 Hz units are also available.

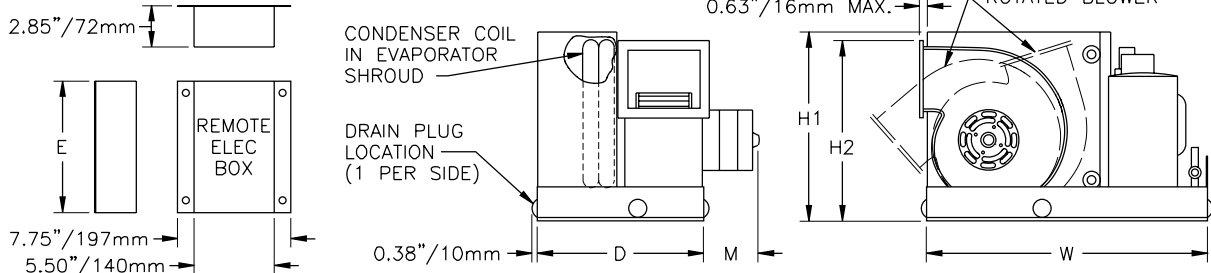
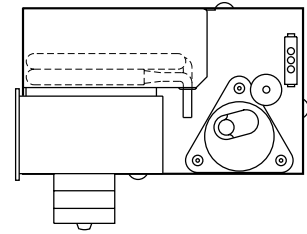
In addition to the basic StowAway unit, the following components are required to complete the installation and are sold **separately**: seawater-cooling system (pump, through-hull, strainer, seacock, hose, etc.), air distribution system, hose adapter and controls.

### Unit Dimensions

Unit (Btu/hr)	H1 (in/mm)	H2 (in/mm)	W (in/mm)	D (in/mm)	M (in/mm)	E (in/mm)
5,000	11.25/286	10.50/267	16.50/419	9.00/229	3.75/95	8.80/224
7,000	11.50/292	12.25/311	18.00/457	9.63/245	3.25/83	8.80/224
10,000	12.25/311	13.50/343	19.25/489	9.63/245	3.75/95	8.80/224
12,000	13.00/330	13.63/346	19.25/489	9.63/245	3.75/95	8.80/224
16,000	13.63/346	13.63/346	19.25/489	11.38/289	4.00/102	8.80/224
24,000	18.00/457	19.25/489	24.75/629	15.25/387	3.50/89	9.60/244

H1=Height to top of evaporator coil.

H2=Height to top of blower; blower may be rotated downward below H1.



### TECHNICAL SPECIFICATIONS

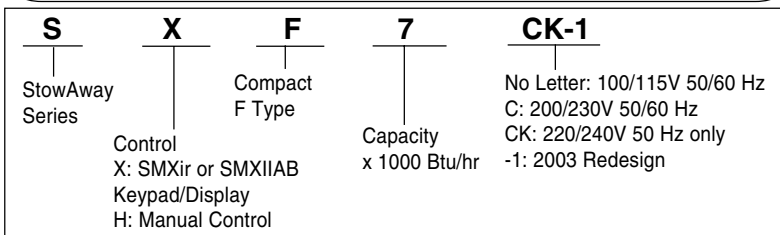
Model Number	Capacity (Btu/hr)	Voltage (VAC)	Freq. (Hz) <sup>1</sup>	Cool Amps	Heat Amps	Starting Amps <sup>2</sup>	Airflow (cfm/cmh)	Weight (lb/kg)
SHF/SXF5-1	5,000	115	60	5.2	6.3	19	150/260	42/19.1
SHF/SXF5CK-1		220/240	50	2.7	3.2	10		
SHF/SXF7-1	7,000	115	60	6.3	7.8	23	200/340	49/22.1
SHF/SXF7C-1		230	60	2.8	3.6	11		
SHF/SXF7CK-1		220/240	50	3.2	3.7	11		
SHF/SXF10-1	10,000	115	60	8.9	11.1	33	350/600	55/24.9
SHF/SXF10C-1		230	60	4.2	5.3	16		
SHF/SXF10CK-1		220/240	50	4.5	5.3	16		
SHF/SXF12-1	12,000	115	60	10.9	12.9	39	380/650	56/25.4
SHF/SXF12C-1		230	60	4.9	6.0	18		
SHF/SXF12CK-1		220/240	50	4.8	5.8	17		
SHF/SXF16-1	16,000	115	60	11.7	14.7	44	480/820	64/29.0
SHF/SXF16C-1		230	60	5.8	7.2	22		
SHF/SXF16CK-1		220/240	50	5.7	7.0	21		
SHF/SXF24C-1	24,000	230	60	7.1	9.7	29	700/1190	120/54.5
SHF/SXF24CK-1		220/240	50	8.1	10.6	32		

- 60Hz units can operate at 50Hz, with a 17% loss in performance. The voltage should also reduce by 17% for best results. "CK" units offer full capacity at 50Hz, but can not run at 60Hz.
- The starting amps shown are approximate, and vary with voltage and load.
- Units can be special ordered with R-417A refrigerant.  
A "-417" suffix is added to the model number of these units.

### RECOMMENDED GRILL & DUCT SIZES

Unit Capacity Btu/hr	Minimum Return Air Grill Size (sq in/cm)	Minimum Discharge Grill Size (sq in/cm)	Recommended Duct Size (in/mm)
5,000	64/415	32/205	4/100
7,000	72/465	49/315	5/125
10,000	100/650	60/390	6/150
12,000	120/780	70/455	6/150
16,000	144/935	80/520	7/175
24,000	200/1350	120/780	9/225

### INTERPRETING MODEL NUMBERS



### Typical Plumbing Installation Self-Contained

