



## ISOSTREAM™ SURNA CASSETTE FAN COIL

COOLING/OPTIONAL HEAT  
MODELS SCFC-XX-X-X-AECM-W-XX

This Surna fan coil is another addition to our full line of purpose-built fan coil products providing a wide range of choices for both ducted and ductless applications for small to large commercial indoor cannabis cultivation facilities.

This ceiling cassette ductless fan coil can be mounted in any comfort or process room where wall mounting or remote ducting are not desired taking up no extra floor or wall space.

This unit is available in many different sizes. These fan coils provide maximum flexibility and application specific options, ensuring a precise solution for your unique application.

The unit uses an electronically commutated (EC) fan motor and modulating valves can be integrated to allow for maximum output at minimum energy consumption. The EC fan motor also provides extremely quiet operation.

For simple maintenance, the air filter is easily removable and washable and is made from self-extinguishing acrylic with an efficiency class Merv 2-4.

## FEATURES AND BENEFITS

### Ductless

Ductless application for chilled water makes installation and cleaning simple.

### Versatile

Available in multiple sizes and can be mounted in any drop ceiling or ceiling recess.

### Heating Options

Surna's cassette fan coils offer an electric heat kit or 4-pipe hot water re-heat options for providing cooling and heating options for any space.

# SPECIFICATIONS

Custom configurations and sizes may be available upon request

PHYSICAL	SCFC-8-V-X-AECM-W-NA 2-Pipe, Cooling Only	SCFC-8-V-X-AECM-W-EH 2-Pipe with Electric Heat	SCFC-8-P-X-AECM-W-NA 4-Pipe with Hot Water Reheat	SCFC-20-V-X-AECM-W-NA 2-Pipe, Cooling Only	SCFC-20-V-X-AECM-W-EH 2-Pipe with Electric Heat	SCFC-20-P-X-AECM-W-NA 4-Pipe with Hot Water Reheat
Length	22-5/8 in (575 mm)		11-7/16 in (291 mm)		32-11/16 (830 mm)	
Width	22-5/8 in (575 mm)		11-7/16 in (291 mm)		32-11/16 (830 mm)	
Height	11-7/16 in (291 mm)					
Weight	66.1 lbs (30 kg)	67.5 lbs (30.6 kg)	66.1 lbs (30 kg)	110 lbs (49.9 kg)	110.5 lbs (50.1 kg)	110 lbs (49.9 kg)
Water Inlet	3/4 in (19.05 mm) NPT					
Water Outlet	3/4 in (19.05 mm) NPT					
Condensate Drainage Connection	Outside Diameter: 1 in (25.4 mm) / Inside Diameter: 13/16 in (21 mm)					
ELECTRICAL						
Power Supply (V/Ph/Hz)	220/1/60					
Minimum Circuit Ampacity (MCA)	0.27 A	11.6 A	0.27 A	1.27 A	24 A	1.27 A
Maximum Overcurrent Protection (MOP)	15 A	15 A	15 A	15 A	25 A	15 A
Full Load Amps (FLA)	0.12 A	4.7 A	0.27 A	7.1 A	0.45 A	0.73 A
FAN MOTOR						
Fan Motor Power	47 W			224 W		
Fan Motor Running Current	0.82 A / 0.43 A			3.90 A / 2.04 A		
CERTIFICATIONS						
	ETL					
CHILLED WATER COIL PERFORMANCE						
Applied Output Tonnage Range	2,000 - 4,000 BTU/Hr (0.59 - 1.17 kW)		8,000 - 16,000 BTU/Hr (2.35 - 4.69 kW)		15,000 - 25,000 BTU/Hr (4.40 - 7.33 kW)	
Nominal Output	3,377 BTU/Hr (1 kW)		12,590 BTU/Hr (3.7 kW)		20,001 BTU/Hr (5.9 kW)	
Airflow	600 CFM (1,020 m <sup>3</sup> /h)			727 CFM (1,235 m <sup>3</sup> /h)		
Cooling Water Flow Rate	3 GPM (681.37 L/h)		2.5 GPM (675 L/h)		6.4 GPM (1453.6 L/h)	
Cooling Water Pressure Drop	10.6 Ft/Head (31.8 kPa)		5.6 Ft/Head (16.8 kPa)		8.8 Ft/Head (26.3 kPa)	
Heating Water Flow Rate	N/A		0.7 GPM (158.99 L/h)		N/A	
Heating Water Pressure Drop	N/A		0.4 Ft/Head (1.2 kPa)		N/A	
Heating Water Pressure Drop	N/A		N/A		0.5 Ft/Head (kPa)	
ELECTRIC HEAT PERFORMANCE						
Max. Heating Capacity	N/A	2 kW	N/A	N/A	4 kW	N/A
REHEAT COIL PERFORMANCE						
Hydronic Heating Capacity (EWT 140°F/60°C)	N/A		14,857 BTU/Hr (5.92 kW)		N/A	
	N/A		N/A		31,509 BTU/Hr (9.23 kW)	

Note:

a. Assumes entering water temperature (EWT) of 45° F (7.22° C)

b. Data is based on fan running at maximum speed @ 220V

c. Data assumes specified GPM

d. All dimensions are approximate within 1/16 of an inch of those indicated

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All data subject to change without notice