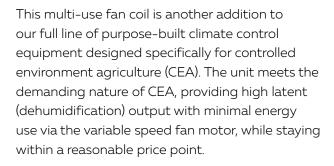


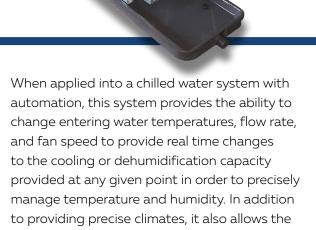


WITH HOT WATER REHEAT COIL MODELS SFC(4R)-XXXX-PX-AECM-X-L



This unit can be mounted inside the growing space, unducted, OR can reside outside the space and ducted in.

The Surna Fan Coil (SFC) is available standard in four different sizes with cooling output ranging from 1 to 6 tons with other custom sizes available upon request, ensuring a solution for any size environment. Utilizing designs with multiple units within each grow space allows for distributed airflow throughout while offering redundancy if a unit fails or need maintenance, and our fan coil designs are all compatible with CO_2 injection systems.



flexibility to modify the system output capacity as

conditions in the facility change.

Sensible heat ratio (SHR) is a term used to describe the amount of sensible cooling (temperature reduction) vs latent cooling (dehumidification) for any given air conditioning unit. By coupling with a properly designed chilled water system and lower entering water temperatures, SFC units have been constructed to have more latent cooling than comfort cooling fan coil units of similar tonnage.

The Surna whisper-quiet fan coil uses EC motors to optimize airflow while modulating chilled water valves are used to fine-tune for minimizing energy consumption.

FEATURES AND BENEFITS

Installation Versatility

Can be utilized in a variety of installation configurations and applications such as ceiling mount free discharge, ducted outside the space, and ducted inside the space.

Filtration

Includes an efficiency class Merv 3 standard with options for Merv 8-14 or HEPA filtration designs.

CO₂ Injection

Unit CO₂ injection options available for dispersion uniformity through the cultivation environment.

SPECIFICATIONS

Custom configurations and sizes may be available upon request

PHYSICAL	SFC(4R)-300-PX- AECM-X-L 4-Pipe with Hot Water Reheat	SFC(4R)-600-PX- AECM-X-L 4-Pipe with Hot Water Reheat	SFC(4R)-1000-PX- AECM-X-L 4-Pipe with Hot Water Reheat	SFC(4R)-1600-PX- AECM-X-L 4-Pipe with Hot Water Reheat	
Length	33-11/16 in (855.7 mm)	49-7/16 in (1,255.7 mm)	69-1/16 in (1,754.2 mm)	76-15/16 in (1,954.2mm)	
Width		28-5/8 in (727.08 mm)		31-7/16 in (798.51 mm)	
Height	9-13/16 in (249.2 mm)			11-13/16 in (300.0 mm)	
Weight	63 lbs (28.58 kg)	88 lbs (39.92 kg)	130 lbs (58.97 kg)	176 lbs (79.83 kg)	
Chilled Water Inlet	3/4 in (19.05 mm) NPT				
Chilled Water Outlet	3/4 in (19.05 mm) NPT				
Hot Water Inlet	3/4 in (19.05 mm) NPT				
Hot Water Outlet	3/4 in (19.05 mm) NPT				
Condensate Drainage Connection	3/4 in (19.05 mm) NPT				
ELECTRICAL					
Power Supply (V/Ph/Hz)	220/1/60				
Min.Circuit Ampacity (MCA)	1A		2 A	4 A	
Max. Overcurrent Protection (MOP)	2 A		4 A	8 A	
Full Load Amps (FLA)	0.6 A	0.9 A	1.6 A	3.5 A	
FAN MOTOR					
Fan Motor Power @ Max. Speed	63 W	102 W	180 W	380 W	
Fan Motor Running Current @ 220V	0.57 A	0.93 A	1.64 A	3.45 A	
CERTIFICATIONS					
	ETL				
CHILLED WATER COIL PERFORMANCE					
Applied Output Tonnage Range	12,000 - 36,000 BTU/Hr (3.52 - 10.55 kW)	24,000 - 48,000 BTU/Hr (7.03 - 14.07 kW)	36,000 - 60,000 BTU/Hr (10.55 - 17.58 kW)	48,000 - 72,000 BTU/Hr (14.07 - 21.10 kW)	
Nominal Output	13,151 BTU/Hr (3.85 kW)	20,876 BTU/Hr (6.12 kW)	31,669 BTU/Hr (9.28 kW)	52,103 BTU/Hr (15.27 kW)	
Rated Airflow	406 CFM (689.80 m³/h)	690 CFM (1,172.32 m³/h)	1,040 CFM (1,766.97 m ³ /h)	1,865 CFM (3,168.66 m³/h)	
Water Flow Rate	2.82 GPM (640.49 L/h)	4.93 GPM (1,119.72 L/h)	7.85 GPM (1,782.93 L/h)	12.31 GPM (2,795.91 L/h)	
Water Pressure Drop	19.4 Ft/Head (58.0 kPa)	22.5 Ft/Head (67.3 kPa)	32.6 Ft/Head (97.4 kPa)	31.4 Ft/Head (93.9 kPa)	
REHEAT COIL PERFORMANCE					
Hydronic Heating Capacity (EWT 140°F/60°C)	15,027 BTU/Hr (4.40 kW)	30,188 BTU/Hr (8.85 kW)	41,903 BTU/Hr (12.28 kW)	75,000 BTU/Hr (21.98 kW)	
Note:: a. Assumes entering water b. Airflow is adjustable c. Data assumes specified d. All dimensions are temperature (EWT) of 45° GPM approximate within 1/16 of F (7.22° C) an inch of those indicated.					

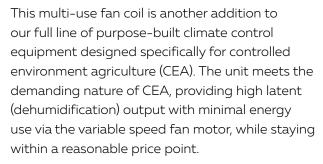
P 303.993.5271

info@surna.com



ISOSTREAM® SURNA FAN COIL

COOLING ONLY MODELS SFC(4R)-XXXX-VX-AECM-X-L



This unit can be mounted inside the growing space, unducted, OR can reside outside the space and ducted in

The Surna Fan Coil (SFC) is available standard in four different sizes with cooling output ranging from 1 to 6 tons with other custom sizes available upon request, ensuring a solution for any size environment. Utilizing designs with multiple units within each grow space allows for distributed airflow throughout while offering redundancy if a unit fails or need maintenance, and our fan coil designs are all compatible with CO_2 injection systems.



When applied into a chilled water system with automation, this system provides the ability to change entering water temperatures, flow rate, and fan speed to provide real time changes to the cooling or dehumidification capacity provided at any given point in order to precisely manage temperature and humidity. In addition to providing precise climates, it also allows the flexibility to modify the system output capacity as conditions in the facility change.

Sensible heat ratio (SHR) is a term used to describe the amount of sensible cooling (temperature reduction) vs latent cooling (dehumidification) for any given air conditioning unit. By coupling with a properly designed chilled water system and lower entering water temperatures, SFC units have been constructed to have more latent cooling than comfort cooling fan coil units of similar tonnage.

The Surna whisper-quiet fan coil uses EC motors to optimize airflow while modulating chilled water valves are used to fine-tune for minimizing energy consumption.

FEATURES AND BENEFITS

Installation Versatility

Can be utilized in a variety of installation configurations and applications such as ceiling mount free discharge, ducted outside the space, and ducted inside the space.

Filtration

Includes an efficiency class Merv 3 standard with options for Merv 8-14 or HEPA filtration designs.

CO₂ Injection

Unit CO₂ injection options available for dispersion uniformity through the cultivation environment.

SPECIFICATIONS

Custom configurations and sizes may be available upon request

PHYSICAL	SFC(4R)-300-VX- AECM-X-L 2-Pipe, Cooling Only	SFC(4R)-600-VX- AECM-X-L 2-Pipe, Cooling Only	SFC(4R)-1000-VX- AECM-X-L 2-Pipe, Cooling Only	SFC(4R)-1600-VX- AECM-X-L 2-Pipe, Cooling Only	
Length	33-11/16 in (855.7 mm)	49-7/16 in (1,255.7 mm)	69-1/16 in (1,754.2 mm)	76-15/16 in (1,954.2 mm)	
Width		24-7/16 in (620.71 mm)			
Height	9-13/16 in (249.2 mm)			11-13/16 in (300.0 mm)	
Weight	51 lbs (23.13 kg)	68 lbs (30.84 kg)	95 lbs (43.09 kg)	132 lbs (59.87 kg)	
Water Inlet	3/4 in (19.05 mm) NPT				
Water Outlet	3/4 in (19.05 mm) NPT				
Condensate Drainage Connection	3/4 in (19.05 mm) NPT				
ELECTRICAL - Without Heat					
Power Supply (V/Ph/Hz)	220/1/60				
Min.Circuit Ampacity (MCA)	1A		2 A	4 A	
Max. Overcurrent Protection (MOP)	2 A		4 A	8 A	
Full Load Amps (FLA)	0.6 A	0.9 A	1.6 A	3.5 A	
FAN MOTOR					
Fan Motor Power @ Max. Speed	63 W	102 W	180 W	380 W	
Fan Motor Running Current @ 220V	0.57 A	0.93 A	1.64 A	3.45 A	
CERTIFICATIONS					
	ETL				
CHILLED WATER COIL PERFORMA	NCE				
Applied Output Tonnage Range	12,000 - 36,000 BTU/Hr (3.52 - 10.55 kW)	24,000 - 48,000 BTU/Hr (7.03 - 14.07 kW)	36,000 - 60,000 BTU/Hr (10.55 - 17.58 kW)	48,000 - 72,000 BTU/Hr (14.07 - 21.10 kW)	
Nominal Output	14,259 BTU/Hr (4.18 kW)	24,984 BTU/Hr (7.32 kW)	39,769 BTU/Hr (11.66 kW)	62,319 BTU/Hr (118.26 kW)	
Rated Airflow	406 CFM (689.80 m³/h)	690 CFM (1,172.32 m³/h)	1,040 CFM (1,766.97 m³/h)	1,865 CFM (3,168.66 m³/h)	
Water Flow Rate	2.82 GPM (640.49 L/h)	4.93 GPM (1,119.72 L/h)	7.85 GPM (1,782.93 L/h)	12.31 GPM (2,795.91 L/h)	
Water Pressure Drop	19.4 Ft/Head (58.0 kPa)	22.5 Ft/Head (67.3 kPa)	32.6 Ft/Head (97.4 kPa)	31.4 Ft/Head (93.9 kPa)	

Note::

a. Assumes entering water b. Airflow is adjustable temperature of 45° F (7.22° C)

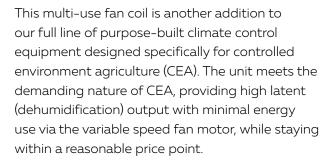
c. Data assumes specified d. All dimensions are GPM

approximate within 1/16 of an inch of those indicated.





WITH ELECTRIC HEAT
MODELS SFC(4R)-XXXX-VX-AECM-X-L-EH



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FEATURES AND BENEFITS

Installation Versatility

Can be utilized in a variety of installation configurations and applications such as ceiling mount free discharge, ducted outside the space, and ducted inside the space.

Filtration

Includes an efficiency class Merv 3 standard with options for Merv 8-14 or HEPA filtration designs.

CO₂ Injection

Unit CO_2 injection options available for dispersion uniformity through the cultivation environment.

SPECIFICATIONS

Custom configurations and sizes may be available upon request

PHYSICAL	SFC(4R)-300-VX- AECM-X-L-EH 2-Pipe with Electric Heat	SFC(4R)-600-VX- AECM-X-L-EH 2-Pipe with Electric Heat	SFC(4R)-1000-VX- AECM-X-L-EH 2-Pipe with Electric Heat	SFC(4R)-1600-VX- AECM-X-L-EH 2-Pipe with Electric Heat	
Length	33-11/16 in (855.7 mm)	49-7/16 in (1,255.7 mm)	69-1/16 in (1,754.2 mm)	76-15/16 in (1,954.2 mm)	
Width	25-6/8 in (654.1 mm)			28-9/16 in (725.5 mm)	
Height	9-13/16 in (249.2 mm)			11-13/16 in (300.0 mm)	
Weight	60 lbs (27.22 kg)	81.5 lbs (36.97 kg)	113 lbs (51.23 kg)	155.5 lbs (70.53 kg)	
Water Inlet	3/4 in (19.05 mm) NPT				
Water Outlet	3/4 in (19.05 mm) NPT				
Condensate Drainage Connection	3/4 in (19.05 mm) NPT				
ELECTRICAL					
Power Supply (V/Ph/Hz)	220/1/60				
Min. Circuit Ampacity (MCA)	17.4 A	29 A	35.1 A	36.3 A	
Max. Overcurrent Protection (MOP)	20 A	30 A	40 A		
Full Load Amps (FLA)	14.2 A	23.7 A	28.9 A	30.7 A	
FAN MOTOR					
Fan Motor Power @ Max. Speed	63 W	102 W	180 W	380 W	
Fan Motor Running Current @ 220V	0.57 A	0.93 A	1.64 A	3.45 A	
CERTIFICATIONS					
	ETL				
CHILLED WATER COIL PERFORMA	NCE				
Applied Output Tonnage Range	12,000 - 36,000 BTU/Hr (3.52 - 10.55 kW)	24,000 - 48,000 BTU/Hr (7.03 - 14.07 kW)	36,000 - 60,000 BTU/Hr (10.55 - 17.58 kW)	48,000 - 72,000 BTU/Hr (14.07 - 21.10 kW)	
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Water Flow Rate	2.82 GPM (640.49 L/h)	4.93 GPM (1,119.72 L/h)	7.85 GPM (1,782.93 L/h)	12.31 GPM (2,795.91 L/h)	
Water Pressure Drop	19.4 Ft/Head (58.0 kPa)	22.5 Ft/Head (67.3 kPa)	32.6 Ft/Head (97.4 kPa)	31.4 Ft/Head (93.9 kPa)	
ELECTRIC HEAT PERFORMANCE					
Max. Heating Capacity	3 kW	5 kW	6 kW		

Note::

a. Assumes entering water b. Airflow is adjustable temperature of 45° F (7.22° C)

c. Data assumes specified d. All dimensions are
GPM approximate within 1,

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