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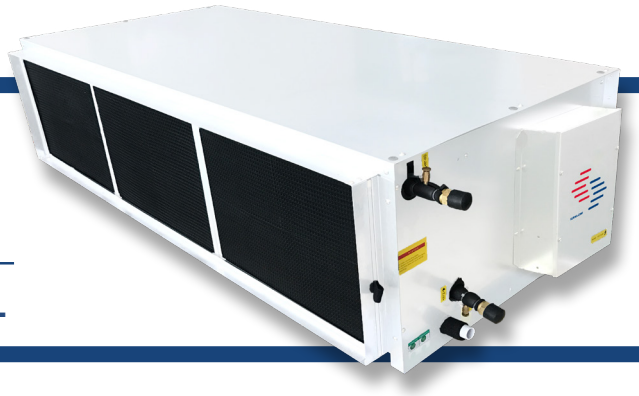

ISOSTREAM®
SURNA FAN COIL

2-PIPE: 4-ROW COOLING
MODELS SFCG(4R)-XXXX-VX-X-AECM-L

This Good Manufacturing Practice (GMP) compliant fan coil is another addition to our full line of purpose-built climate control equipment designed specifically for controlled environment agriculture (CEA). The unit meets the demanding nature of CEA, providing high latent (dehumidification) output with minimal energy use via a variable speed fan motor.

The Surna Fan Coil (SFCG) is available standard in four different sizes 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 needs maintenance.

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, SFCG units have been constructed to have more latent cooling than comfort cooling fan coil units of similar tonnage.

This unit utilizes an electronically commuted (EC) motor. An EC motor offers multiple energy-saving advantages. This includes running cooler (producing less waste heat), performing only at the speed required (saving electricity), and offering significantly greater controllability than constant volume permanent split capacitor (PSC) motors.

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

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.

GMP-Compliant
With HVAC design, this means consistent parameters, effective filtration, airflow patterns specifically designed for avoidance of cross contamination, and more.

Energy Efficient
The unit's EC motor runs cooler (producing less waste heat), performing only at the speed required (saving electricity), and offering significantly greater controllability than PSC motors.

SPECIFICATIONS

Custom configurations and sizes may be available upon request

PHYSICAL			SFCG(4R)-1000-VX-X-AECM-L	SFCG(4R)-1600-VX-X-AECM-L	SFCG(4R)-1800-VX-X-AECM-L	SFCG(4R)-2400-VX-X-AECM-L
Length		in (mm)	39-3/4 (1009.65)	57-1/2 (1460.5)	57-1/2 (1460.5)	69-5/16 (1760.54)
Width		in (mm)	24-13/16 (630.24)	25-9/16 (649.29)	29-1/2 (749.3)	29-1/2 (749.3)
Height		in (mm)	11-13/16 (300.04)	14-15/16 (379.41)	16-15/16 (430.21)	16-15/16 (430.21)
Weight		lbs (kg)	99 (44.9)	128 (58.1)	143 (64.9)	165 (74.8)
Water Connections	In Out	in (mm)	NPT 3/4 (19.05)		NPT 1 (25.4)	
Condensate Drainage Connection		in (mm)	3/4 (19.05)			
ELECTRICAL & FAN MOTOR						
Power Supply		V/PH/Hz	220/1/60			
Full Load Amps (FLA)		A	1.25	2.38	2.10	3.82
Min. Circuit Ampacity (MCA)		A	1.57	2.98	2.63	4.78
Max. Overcurrent Protection (MOP)		A	15			
Fan Motor Power @ Max. Speed		W	276	525	461	840
CERTIFICATIONS						
ETL						
CHILLED WATER COIL PERFORMANCE						
Nominal Output		BTU/Hr (kW)	31259 (9.16)	57995 (17)	65945 (19.33)	80807 (23.68)
Rated Airflow		CFM (m^3/h)	1010 (1716)	1881 (3196)	2015 (3424)	2490 (4231)
Water Flow Rate		GPM (L/h)	6.17 (1410.36)	11.45 (1401.36)	13.02 (2957.16)	15.96 (3624.91)
Water Pressure Drop		Ft/Head (kPa)	5.63 (16.82)	12.37 (36.97)	8.66 (25.88)	11.52 (34.43)

Note::
a. Assumes entering water temperature of 45° F (7.22° C)
b. Airflow is adjustable
c. Data assumes specified GPM and 220V
d. All dimensions are approximate within 1/16 of an inch of those indicated.

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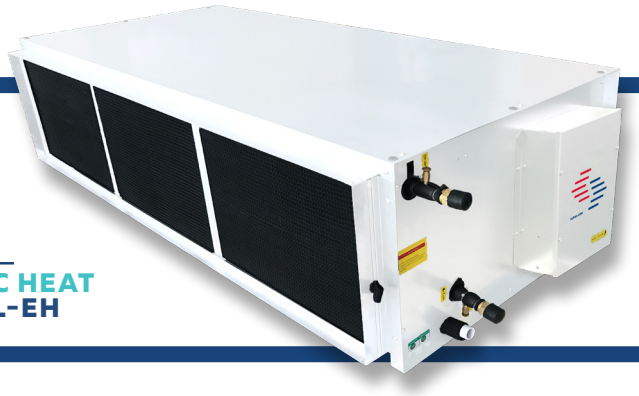

ISOSTREAM®
SURNA FAN COIL GMP

2-PIPE: 4-ROW COOLING AND ELECTRIC HEAT
MODELS SFCG(4R)-XXXX-VX-X-AECM-L-EH

This Good Manufacturing Practice (GMP) compliant fan coil is another addition to our full line of purpose-built climate control equipment designed specifically for controlled environment agriculture (CEA). The unit meets the demanding nature of CEA, providing high latent (dehumidification) output with minimal energy use via a variable speed fan motor.

The Surna Fan Coil (SFCG) is available standard in four different sizes 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 needs maintenance.

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, SFCG units have been constructed to have more latent cooling than comfort cooling fan coil units of similar tonnage.

This unit utilizes an electronically commuted (EC) motor. An EC motor offers multiple energy-saving advantages. This includes running cooler (producing less waste heat), performing only at the speed required (saving electricity), and offering significantly greater controllability than constant volume permanent split capacitor (PSC) motors.

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

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.

GMP-Compliant
With HVAC design, this means consistent parameters, effective filtration, airflow patterns specifically designed for avoidance of cross contamination, and more.

Energy Efficient
The unit's EC motor runs cooler (producing less waste heat), performing only at the speed required (saving electricity), and offering significantly greater controllability than PSC motors.

SPECIFICATIONS

Custom configurations and sizes may be available upon request

PHYSICAL			SFCG(4R)-1000-VX-X-AECM-L-EH	SFCG(4R)-1600-VX-X-AECM-L-EH	SFCG(4R)-1800-VX-X-AECM-L-EH	SFCG(4R)-2400-VX-X-AECM-L-EH
Length		in (mm)	39-3/4 (1009.65)	57-1/2 (1460.5)	57-1/2 (1460.5)	69-5/16 (1760.54)
Width		in (mm)	24-13/16 (630.24)	25-9/16 (649.29)	29-1/2 (749.3)	29-1/2 (749.3)
Height		in (mm)	11-13/16 (300.04)	14-15/16 (379.41)	16-15/16 (430.21)	16-15/16 (430.21)
Weight		lbs (kg)	119 (54)	148 lbs (67.1)	163 (73.9)	185 (83.9)
Water Connections	In Out	in (mm)	NPT 3/4 (19.05)		NPT 1 (25.4)	
Condensate Drainage Connection		in (mm)	3/4 (19.05)			
ELECTRICAL & FAN MOTOR						
Power Supply		V/PH/Hz	220/1/60			
Full Load Amps (FLA)		A	21.7	22.84	22.55	24.27
Min. Circuit Ampacity (MCA)		A	27.13	28.55	28.19	30.34
Max. Overcurrent Protection (MOP)		A	30			35
Fan Motor Power @ Max. Speed		W	276	525	461	840
CERTIFICATIONS						
		ETL				
CHILLED WATER COIL PERFORMANCE						
Nominal Output		BTU/Hr (kW)	31259 (9.16)	57995 (17)	65945 (19.33)	80807 (23.68)
Rated Airflow		CFM (m^3/h)	1010 (1716)	1881 (3196)	2015 (3424)	2490 (4231)
Water Flow Rate		GPM (L/h)	2.5 (567.8)	4.65 (1056.1)	5.29 (1201.5)	6.48 (1471.8)
Water Pressure Drop		Ft/Head (kPa)	1.3 (3.88)	2.6 (7.77)	2.4 (7.17)	2.5 (7.47)
ELECTRIC HEAT PERFORMANCE						
Max. Heating Capacity		kW	4.5			

Note::

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

b. Airflow is adjustable

c. Data assumes specified GPM and 220V

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

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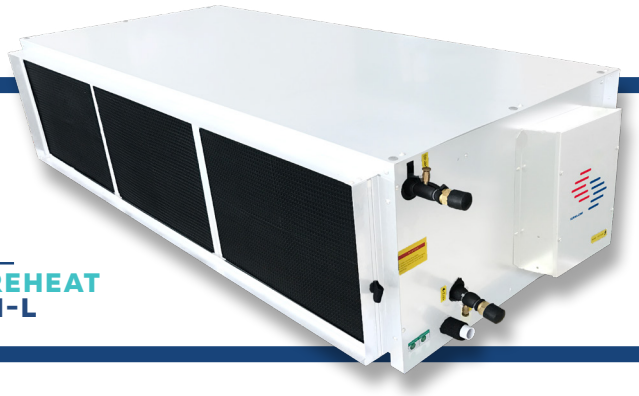

ISOSTREAM®
SURNA FAN COIL GMP

4-PIPE: 4-ROW COOLING AND 2-ROW REHEAT
MODELS SFCG(4R+2)-XXXX-PX-X-AECM-L

This Good Manufacturing Practice (GMP) compliant fan coil is another addition to our full line of purpose-built climate control equipment designed specifically for controlled environment agriculture (CEA). The unit meets the demanding nature of CEA, providing high latent (dehumidification) output with minimal energy use via a variable speed fan motor.

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This unit utilizes an electronically commuted (EC) motor. An EC motor offers multiple energy-saving advantages. This includes running cooler (producing less waste heat), performing only at the speed required (saving electricity), and offering significantly greater controllability than constant volume permanent split capacitor (PSC) motors.

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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.

GMP-Compliant
With HVAC design, this means consistent parameters, effective filtration, airflow patterns specifically designed for avoidance of cross contamination, and more.

Energy Efficient
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SPECIFICATIONS

Custom configurations and sizes may be available upon request

PHYSICAL			SFCG(4R+2)-1000-PX-X-AECM-L	SFCG(4R+2)-1600-PX-X-AECM-L	SFCG(4R+2)-1800-PX-X-AECM-L	SFCG(4R+2)-2400-PX-X-AECM-L
Length		in (mm)	39-3/4 (1009.65)	57-1/2 (1460.5)	57-1/2 (1460.5)	69-5/16 (1760.54)
Width		in (mm)	24-13/16 (630.24)	25-9/16 (649.29)	29-1/2 (749.3)	29-1/2 (749.3)
Height		in (mm)	11-13/16 (300.04)	14-15/16 (379.41)	16-15/16 (430.21)	16-15/16 (430.21)
Weight		lbs (kg)	110 (49.99)	140 (63.5)	155 (70.3)	175 (79.38)
Water Connections	In Out	in (mm)	NPT 3/4 (19.05)		NPT 1 (25.4)	
Condensate Drainage Connection		in (mm)	3/4 (19.05)			
ELECTRICAL & FAN MOTOR						
Power Supply		V/PH/Hz	220/1/60			
Full Load Amps (FLA)		A	1.25	2.38	2.10	3.82
Min. Circuit Ampacity (MCA)		A	1.57	2.98	2.63	4.78
Max. Overcurrent Protection (MOP)		A	15			
Fan Motor Power @ Max. Speed		W	276	525	461	840
CERTIFICATIONS						
		ETL				
CHILLED WATER COIL PERFORMANCE						
Nominal Output		BTU/Hr (kW)	28799 (8.44)	56363 (16.52)	62202 (18.23)	78483 (23.00)
Rated Airflow		CFM (m^3/h)	905 (1538)	1814 (3082)	1879 (3192)	2386 (4054)
Water Flow Rate		GPM (L/h)	5.69 (1292.34)	11.13 (2527.90)	12.28 (2789.09)	15.50 (3520.43)
Water Pressure Drop		Ft/Head (kPa)	5.63 (16.82)	12.37 (36.97)	8..66 (25.88)	11.52 (34.43)
REHEAT COIL PERFORMANCE						
Hydronic Heating Capacity (EWT 140°F/60°C)		BTU/Hr (kW)	35884 (10.52)	69038 (20.23)	75610 (22.16)	95790 (28.07)
Water Flow Rate		GPM (L/h)	1.79 (406.55)	3.44 (781.31)	3.77 (856.26)	4.77 (1083.38)
Water Pressure Drop		Ft/Head (kPa)	1.8 (5.38)	3.95 (11.80)	1.99 (5.95)	3.62 (10.82)

Note::
a. Assumes entering water temperature of 45° F (7.22° C)
b. Airflow is adjustable
c. Data assumes specified GPM
d. All dimensions are approximate within 1/16 of an inch of those indicated.

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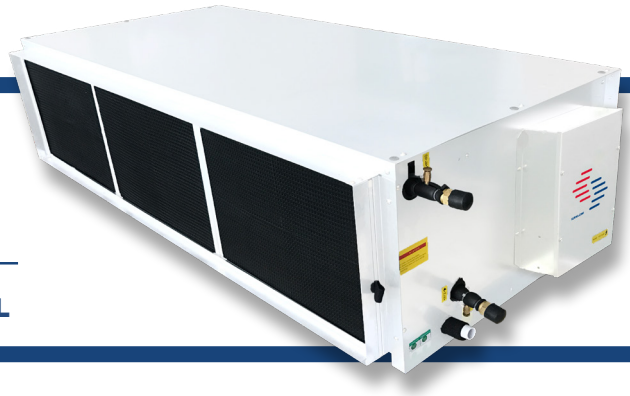

ISOSTREAM®
SURNA FAN COIL GMP

2-PIPE: 6-ROW COOLING
MODELS SFCG(6R)-XXXX-VX-X-AECM-L

This Good Manufacturing Practice (GMP) compliant fan coil is another addition to our full line of purpose-built climate control equipment designed specifically for controlled environment agriculture (CEA). The unit meets the demanding nature of CEA, providing high latent (dehumidification) output with minimal energy use via a variable speed fan motor.

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FEATURES AND BENEFITS

Installation Versatility
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GMP-Compliant
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Energy Efficient
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SPECIFICATIONS

Custom configurations and sizes may be available upon request

PHYSICAL			SFCG(6R)-1000-VX-X-AECM-L	SFCG(6R)-1600-VX-X-AECM-L	SFCG(6R)-1800-VX-X-AECM-L	SFCG(6R)-2400-VX-X-AECM-L
Length		in (mm)	39-3/4 (1009.65)	57-1/2 (1460.5)	57-1/2 (1460.5)	69-5/16 (1760.54)
Width		in (mm)	24-13/16 (630.24)	25-9/16 (649.29)	29-1/2 (749.3)	29-1/2 (749.3)
Height		in (mm)	11-13/16 (300.04)	14-15/16 (379.41)	16-15/16 (430.21)	16-15/16 (430.21)
Weight		lbs (kg)	99 (44.9)	128 (58.1)	143 (64.9)	165 (74.8)
Water Connections	In Out	in (mm)	NPT 3/4 (19.05)		NPT 1 (25.4)	
Condensate Drainage Connection		in (mm)	3/4 (19.05)			
ELECTRICAL & FAN MOTOR						
Power Supply		V/PH/Hz	220/1/60			
Full Load Amps (FLA)		A	1.25	2.38	2.10	3.82
Min. Circuit Ampacity (MCA)		A	1.57	2.98	2.63	4.78
Max. Overcurrent Protection (MOP)		A	15			
Fan Motor Power @ Max. Speed		W	276	525	461	840
CERTIFICATIONS						
		ETL				
CHILLED WATER COIL PERFORMANCE						
Nominal Output		BTU/Hr (kW)	36568 (10.72)	62655 (18.36)	77790 (22.80)	98214 (28.78)
Rated Airflow		CFM (m^3/h)	905 (1538)	1814 (3082)	1879 (3192)	2386 (4054)
Water Flow Rate		GPM (L/h)	7.22 (1639.84)	12.37 (2809.53)	15.36 (3488.64)	19.39 (4403.95)
Water Pressure Drop		Ft/Head (kPa)	12.76 (38.13)	22.33 (66.73)	19.13 (57.17)	41.92 (125.27)

Note::
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b. Airflow is adjustable
c. Data assumes specified GPM and 220V
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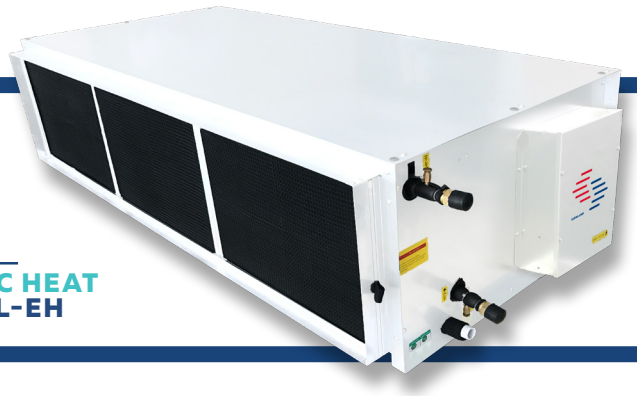

ISOSTREAM®
SURNA FAN COIL GMP

2-PIPE: 6-ROW COOLING AND ELECTRIC HEAT
MODELS SFCG(6R)-XXXX-VX-X-AECM-L-EH

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FEATURES AND BENEFITS

Installation Versatility
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Energy Efficient
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SPECIFICATIONS

Custom configurations and sizes may be available upon request

PHYSICAL			SFCG(6R)-1000-VX-X-AECM-L-EH	SFCG(6R)-1600-VX-X-AECM-L-EH	SFCG(6R)-1800-VX-X-AECM-L-EH	SFCG(6R)-2400-VX-X-AECM-L-EH
Length		in (mm)	39-3/4 (1009.65)	57-1/2 (1460.5)	57-1/2 (1460.5)	69-5/16 (1760.54)
Width		in (mm)	24-13/16 (630.24)	25-9/16 (649.29)	29-1/2 (749.3)	29-1/2 (749.3)
Height		in (mm)	11-13/16 (300.04)	14-15/16 (379.41)	16-15/16 (430.21)	16-15/16 (430.21)
Weight		lbs (kg)	130 (58.97)	160 (72.57)	175 (79.38)	195 (88.45)
Water Connections	In Out	in (mm)	NPT 3/4 (19.05)		NPT 1 (25.4)	
Condensate Drainage Connection		in (mm)	3/4 (19.05)			
ELECTRICAL & FAN MOTOR						
Power Supply		V/PH/Hz	220/1/60			
Full Load Amps (FLA)		A	1.25	2.38	2.10	3.82
Min. Circuit Ampacity (MCA)		A	27.13	28.54	28.19	30.34
Max. Overcurrent Protection (MOP)		A	30			35
Fan Motor Power @ Max. Speed		W	282	461	466	540
CERTIFICATIONS						
			ETL			
CHILLED WATER COIL PERFORMANCE						
Nominal Output		BTU/Hr (kW)	36568 (10.72)	62655 (18.36)	77790 (22.80)	98214 (28.78)
Rated Airflow		CFM (m^3/h)	905 (1538)	1814 (3082)	1879 (3192)	2386 (4054)
Water Flow Rate		GPM (L/h)	7.22 (1639.84)	12.37 (2809.53)	15.36 (3488.64)	19.39 (4403.95)
Water Pressure Drop		Ft/Head (kPa)	12.76 (38.13)	22.33 (66.73)	19.13 (57.17)	41.92 (125.27)
ELECTRIC HEAT PERFORMANCE						
Max. Heating Capacity		kW	4.5			

Note::
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b. Airflow is adjustable
c. Data assumes specified GPM and 220V
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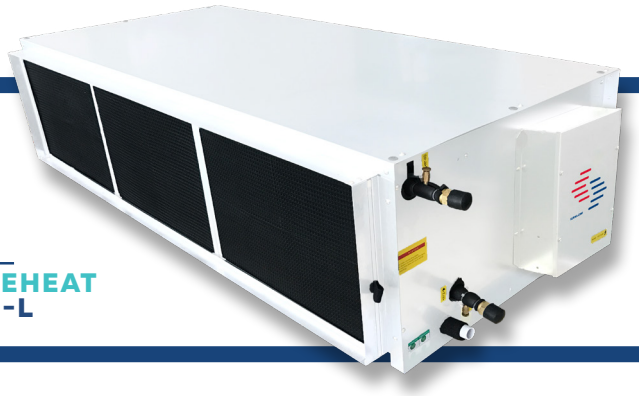

ISOSTREAM®
SURNA FAN COIL GMP

4-PIPE: 6-ROW COOLING AND 1-ROW REHEAT
MODELS SFCG(6R+1)-XXXX-PX-X-AECM-L

This Good Manufacturing Practice (GMP) compliant fan coil is another addition to our full line of purpose-built climate control equipment designed specifically for controlled environment agriculture (CEA). The unit meets the demanding nature of CEA, providing high latent (dehumidification) output with minimal energy use via a variable speed fan motor.

The Surna Fan Coil (SFCG) is available standard in four different sizes 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 needs maintenance.

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, SFCG units have been constructed to have more latent cooling than comfort cooling fan coil units of similar tonnage.

This unit utilizes an electronically commuted (EC) motor. An EC motor offers multiple energy-saving advantages. This includes running cooler (producing less waste heat), performing only at the speed required (saving electricity), and offering significantly greater controllability than constant volume permanent split capacitor (PSC) motors.

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

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.

GMP-Compliant
With HVAC design, this means consistent parameters, effective filtration, airflow patterns specifically designed for avoidance of cross contamination, and more.

Energy Efficient
The unit's EC motor runs cooler (producing less waste heat), performing only at the speed required (saving electricity), and offering significantly greater controllability than PSC motors.

SPECIFICATIONS

Custom configurations and sizes may be available upon request

PHYSICAL			SFCG(6R+1)-1000-PX-X-AECM-L	SFCG(6R+1)-1600-PX-X-AECM-L	SFCG(6R+1)-1800-PX-X-AECM-L	SFCG(6R+1)-2400-PX-X-AECM-L
Length		in (mm)	39-3/4 (1009.65)	57-1/2 (1460.5)	57-1/2 (1460.5)	69-5/16 (1760.54)
Width		in (mm)	24-13/16 (630.24)	25-9/16 (649.29)	29-1/2 (749.3)	29-1/2 (749.3)
Height		in (mm)	11-13/16 (300.04)	14-15/16 (379.41)	16-15/16 (430.21)	16-15/16 (430.21)
Weight		lbs (kg)	99 (44.9)	128 (58.1)	143 (64.9)	165 (74.8)
Water Connections	In Out	in (mm)	NPT 3/4 (19.05)		NPT 1 (25.4)	
Condensate Drainage Connection		in (mm)	3/4 (19.05)			
ELECTRICAL & FAN MOTOR						
Power Supply		V/PH/Hz	220/1/60			
Full Load Amps (FLA)		A	1.5	2.2	2.3	4.4
Min. Circuit Ampacity (MCA)		A	1.9	2.75	2.9	5.5
Max. Overcurrent Protection (MOP)		A	15			
Fan Motor Power @ Max. Speed		W	330	485	504	970
CERTIFICATIONS						
			ETL			
CHILLED WATER COIL PERFORMANCE						
Nominal Output		BTU/Hr (kW)	30200 (8.9)	50400 (14.8)	60600 (17.8)	89000 (26.1)
Air Flow Rate		CFM (m^3/h)	968 (1644.6)	1582 (2687.8)	1854 (3150.0)	2891 (4911.8)
Cooling Water Flow Rate		GPM (L/h)	4.0 (908.5)	6.7 (1521.7)	8.1 (1839.7)	11.8 (2680.1)
Cooling Pressure Drop		Ft/Head (kPa)	4.5 (13.4)	9.1 (27.2)	7.4 (22.1)	8.1 (24.2)
REHEAT COIL PERFORMANCE						
Hydronic Heating Capacity (EWT 140°F/60°C)		BTU/Hr (kW)	19400 (5.7)	30400 (8.9)	43500 (12.7)	57200 (16.8)
Hot Water Flow Rate		GPM (L/h)	1 (227.1)	1.5 (340.7)	2.5 (567.8)	3 (681.4)
Hot Pressure Drop		Ft/Head (kPa)	1.18 (3.5)	1.28 (3.8)	1.65 (4.9)	2.69 (8)

Note::
a. Assumes entering water temperature of 45° F (7.22° C)
b. Airflow is adjustable
c. Data assumes specified GPM and 220V
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