



CSG Series

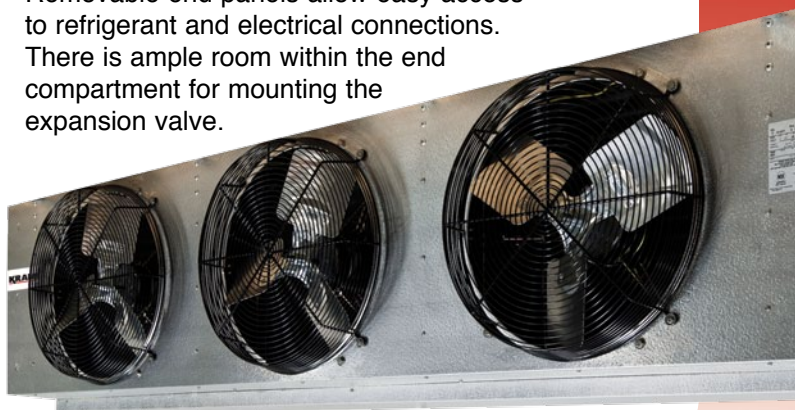
CSG Medium Silhouette Hot Gas Defrost

CSG model unit coolers are specifically designed for commercial freezer applications. All CSG models are available for either "Thermobank" or Reverse Cycle Hot Gas Defrost application.

The time proven "Thermobank" defrost takes less time to defrost than other systems and helps keep room temperatures at design conditions. These units are suitable for low or medium temperature rooms in the range of +30°F to -20°F.

The draw-thru air flow design coupled with fin spacing of 6 per inch assures uniform air distribution.

Removable end panels allow easy access to refrigerant and electrical connections. There is ample room within the end compartment for mounting the expansion valve.



Features:

EFFICIENT OPERATION

- 6FPI
- Available with PSC or EC motors
- Motor bearings are lubricated for the life of the motor
- Motors have built-in overload protection
- Coils constructed of Copper tubes and Aluminum fins

QUALITY

- Fans and motors specially selected for quietness
- Heated drain pans for positive condensate drainage
- UL & C-UL listed, NSF-approved
- Coils tested, dehydrated and sealed at the factory
- Fan guards exceed OSHA requirements

SERVICEABILITY

- Removable end panels for easy access
- Separate fixed defrost and fan delay control factory wired and mounted for optimum performance of each control.



Nomenclature:

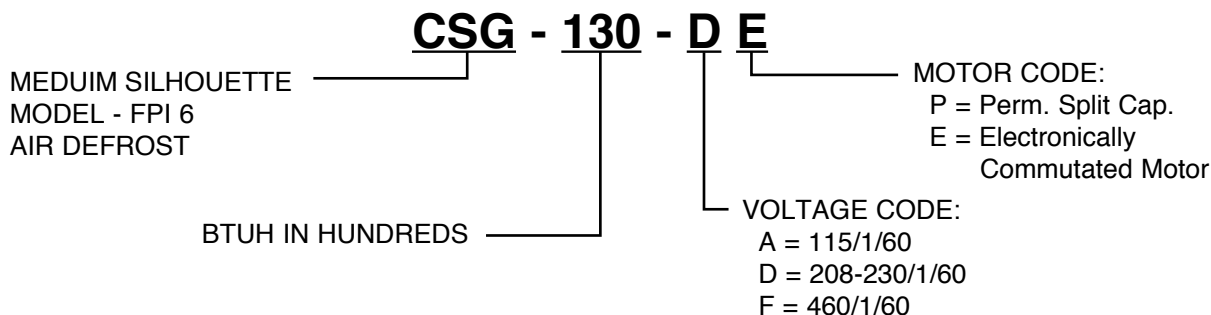
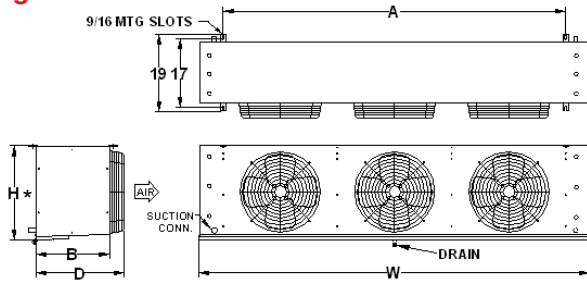
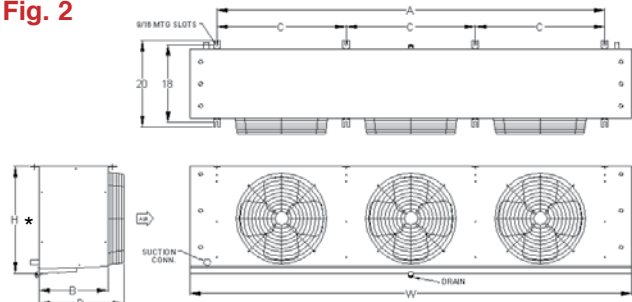


Fig. 1



*Add 1-3/4" to height of the drain end.

Fig. 2



*Add 2-1/4" to height of the drain end.

Capacity Data

MODEL NO. (2)	CFM	CAPACITY DATA — BTU/HR @ 10°T.D. (1)						REFRIG. CHARGE R 404a
		EVAPORATING TEMPERATURE						
		-30°F	-20°F	-10°F	0°F	+10°F	+25°F	
CSG-130*	3780	12,400	13,000	13,600	13,900	14,200	15,000	2.6
CSG-150*	3470	14,300	14,000	15,600	16,300	17,000	19,100	3.4
CSG-185*	5510	17,600	18,500	19,300	19,650	21,000	24,000	3.7
CSG-270*	5720	25,700	27,000	28,100	28,600	29,200	30,500	6.3
CSG-320*	5480	30,500	32,000	33,300	34,500	35,600	37,100	6.9
CSG-385*	9130	36,700	38,500	40,100	41,800	43,600	49,000	7.8
CSG-460*	9090	43,800	46,000	47,900	49,900	52,000	54,400	9.2
CSG-520*	8190	49,500	52,000	54,100	56,400	58,800	62,000	13.8

(1) T.D. is the difference between the box temperature and the refrigerant temperature. (2) Asterisk designates Hot Gas Defrost piping arrangement.

Physical Data

MODEL NO.	FIG.	DIMENSIONS (INCHES)						FITTINGS - OD			OPTIONAL HEAT EXCH.	APPROX. WT.
		H	W	D	A	B	C	LIQ.	SUCT.	H.G.		
CSG-130*	1	19	55	18 3/4	42	15	—	1/2	1 1/8	7/8	HX-150	125
CSG-150*	1	19	55	18 3/4	42	15	—	1/2	1 1/8	7/8	HX-150	140
CSG-185*	1	19	76	18 3/4	63	15	—	1/2	1 1/8	7/8	HX-150	295
CSG-270*	2	25	76	20	63	16	31 1/2	1/2	1 3/8	7/8	HX-250	320
CSG-320*	2	25	76	20	63	16	31 1/2	7/8	1 3/8	7/8	HX-350	365
CSG-385*	2	25	106	20	93	16	31	7/8	1 5/8	7/8	HX-350	450
CSG-460*	2	25	106	20	93	16	31	7/8	1 5/8	7/8	HX-500	490
CSG-520*	2	25	106	20	93	16	31	7/8	1 5/8	7/8	HX-500	535

Electrical Data

MODEL NO.	MOTOR (3)		TOTAL MOTOR AMPS						TOTAL MOTOR WATTS	
			115/1		208-230/1/60		460/1/60			
	NO.	HP	PSC	ECM	PSC	ECM	PSC	ECM	PSC	ECM
CSG-130*	2	1/8	4.0	2.4	1.8	1.2	1.0	N/A	282	140
CSG-150*	2	1/8	4.0	2.4	1.8	1.2	1.0	N/A	282	140
CSG-185*	3	1/8	6.0	3.6	2.7	1.8	1.5	N/A	423	210
CSG-270*	2	1/3	14.2	6.0	6.4	4.2	2.6	N/A	714	450
CSG-320*	2	1/3	14.2	6.0	6.4	4.2	2.6	N/A	714	450
CSG-385*	3	1/3	21.3	9.0	9.6	6.3	3.9	N/A	714	450
CSG-460*	3	1/3	21.3	9.0	9.6	6.3	3.9	N/A	1071	675
CSG-520*	3	1/3	21.3	9.0	9.6	6.3	3.9	N/A	1071	675

(3) All motors are high efficiency Permanent Split Capacitor (PSC) or Electronically Commutated (EC) motors and have built in thermal overload protection.

Achieved by Changing to More Efficient Unit Cooler Motors
(Based on Energy Cost of \$0.10 per kWh)

Energy Savings per Motor

Motor HP and RPM	Standard PSC Motor Input Power Watts/Mtr	Optional EC Motor Input Power Watts/Mtr	Reduced Power Consumption Watts/Mtr PSC to ECM	Run Time Hrs/Day	Motor Energy Savings kWh/Yr	Motor Energy Savings \$/Yr	Reduced Box Load MBTU/Yr	Cond. Unit Energy Savings kWh/Yr	Cond. Unit Energy Savings \$/Yr	Yearly Savings \$/Motor	Pay-back Yrs
1/8-1075	141	70	71	22	570	\$57	1,945	374	\$37	\$94	1.5
1/3-1075	357	225	132	22	1059	\$105	3,617	695	\$70	\$175	0.9