



CSA MEDIUM SILHOUETTE EVAPORATOR

AIR DEFROST

SUBMITTAL
CSA-867
FEB. 1996
NEW



Also suitable for Thermobank or other Hot Gas Defrosts for room temperatures +33°F and higher.
See bulletins MSG-830, and CSG-855 for more information.

Description:

The CSA unit cooler is ideal for meat, produce, fish or dairy storage walk in coolers in warehouses and super-markets where temperatures of +35°F or higher are required.

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

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

Features:

EFFICIENT OPERATION

- Computer optimized design.
- Mill finish Aluminum Construction.

LONG LIFE AND RELIABILITY

- Motor bearings are lubricated for the life of the motor.
- Motors have built-in overload protection.
- Corrosion resistant casing and sturdy construction for long life.
- Coils constructed of Copper tubes and Aluminum fins.

QUALITY

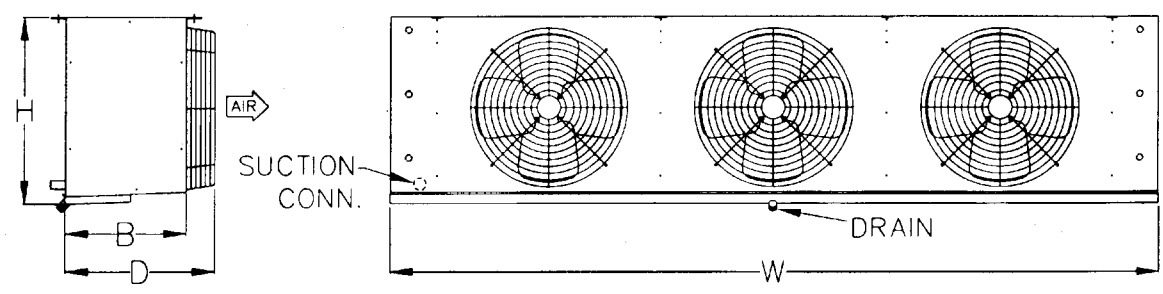
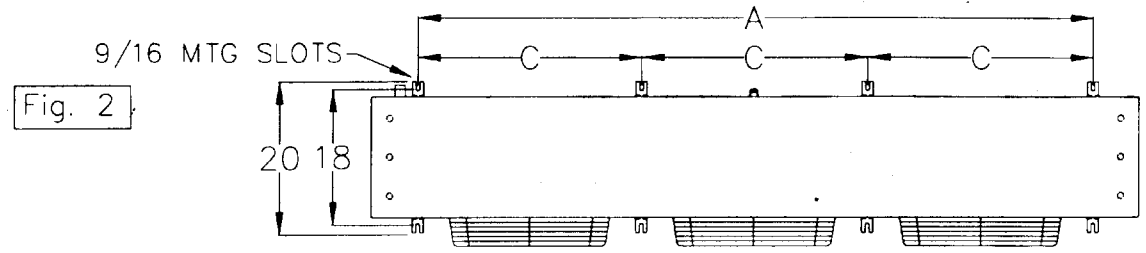
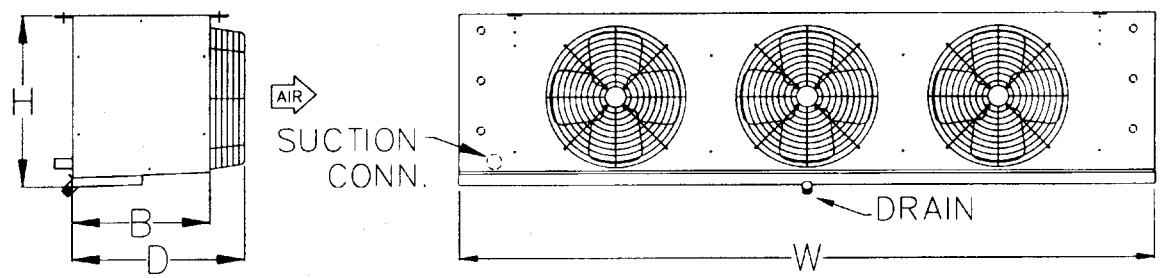
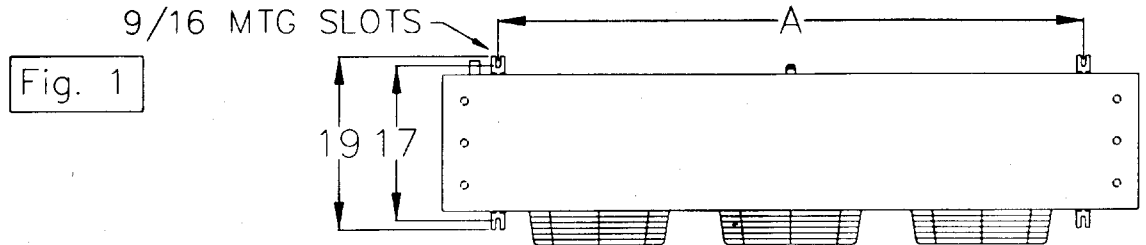
- Fans and motors specially selected for quietness.
- UL, C-UL listed, NSF approved.
- Dependable coil ratings.
- Coils tested, dehydrated and sealed at the factory.
- Fan guards exceed OSHA requirements.
- Draw thru air design.
- Sturdy motor mounts.

SERVICEABILITY

- Removable end panels for easy access.
- Electrical conduit box has retained fasteners.

APPEARANCE

- Room for TXV inside cabinet.
- Clean, low silhouette design.



For your convenience the diagram originally here is enlarged, and is now a separate page that can be found just prior to this page in the Adobe document.

PERFORMANCE DATA

6 FPI	MODEL	Capacity BTU/HR@ 10T.D.(1)			CFM (3)	Motors			Total Fan Motor Amps (4)		
		+40°F	+30°F(2)	+25°F(2)		QTY	H.P.	R.P.M.	115/1	230/1	460/1
	CSA-145	15700	14900	14500	3680	2	1/8	1050	4.0	1.8	0.9
	CSA-191	20600	19600	19000	3470	2	1/8	1050	4.0	1.8	0.9
	CSA-240	26000	24700	24000	5510	3	1/8	1050	6.0	2.7	1.4
	CSA-305	33100	31400	30500	4960	3	1/8	1050	6.0	2.7	1.4
	CSA-370	40100	38100	37000	5460	2	1/3	1075	14.2	6.4	2.6
	CSA-415	45000	42700	41500	8620	3	1/3	1075	14.2	6.4	2.6
	CSA-490	53200	50500	49000	8580	3	1/3	1075	21.3	9.6	3.9
	CSA-620	67300	63900	62000	7770	3	1/3	1075	21.3	9.6	3.9

1. Based on R-22.
2. Frosting conditions.
3. Unrestricted flow.
4. Motors are high efficiency PSC with built-in thermal overload protection.

DIMENSIONAL DATA

6 FPI	MODEL	Connections (in) (1)				Dimensions (in)							Refrig. Charge (lbs) (1)	Approx. Ship Weight (lbs)
		Suction O.D.	Liquid FN	Ext. Equal. O.D.	Drain MPT	Fig.	H	W	D	A	B	C		
	CSA-145	7/8	1/2	1/4	3/4	1	19	55	18-3/4	42	15	—	2.5	120
	CSA-191	7/8	1/2	1/4	3/4	1	19	55	18-3/4	42	15	—	3.4	140
	CSA-240	7/8	1/2	1/4	3/4	1	19	76	18-3/4	63	15	—	3.7	290
	CSA-305	1-1/8	1/2	1/4	3/4	1	19	76	18-3/4	63	15	—	6.1	320
	CSA-370	1-1/8	7/8	1/4	3/4	2	25	76	20	63	16	—	7.8	360
	CSA-415	1-1/8	7/8	1/4	3/4	2	25	106	20	63	16	—	8.4	395
	CSA-490	1-3/8	7/8	1/4	3/4	2	25	106	20	93	16	31	9.2	415
	CSA-620	1-3/8	7/8	1/4	3/4	2	25	106	20	93	16	31	13.7	520

Specifications, weights and dimensions subject to change without notice.

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REFRIGERANT CHARGE REQUIREMENTS

KRAMER MODEL CSA / CSE / CSG UNIT COOLERS

HIGH, MEDIUM & LOW TEMP. REFRIGERANT R-22 & R-404A

<u>EVAP MODEL</u>	<u>R-22; MED.</u> <u>(LB'S.)</u>	<u>R-22; LOW</u> <u>(LB'S.)</u>	<u>R-404A; MED.</u> <u>(LB'S.)</u>	<u>R-404A; LOW</u> <u>(LB'S.)</u>
CSA145	1.83	-	1.62	-
CSA191	2.45	-	2.20	-
CSA240	2.80	-	2.50	-
CSA305	4.60	-	4.12	-
CSA370	5.82	-	5.24	-
CSA415	7.0	-	6.30	-
CSA490	7.0	-	6.30	-
CSA620	10.5	-	9.43	-
CSE130	1.83	1.95	1.62	1.78
CSE150	2.45	2.60	2.20	2.40
CSE185	2.80	2.92	2.50	2.70
CSE270	4.60	4.90	4.12	4.45
CSE320	6.0	6.33	5.34	5.80
CSE385	7.0	7.41	6.30	6.80
CSE460	7.0	7.41	6.30	6.80
CSE520	10.5	11.12	9.43	10.20
CSG130	1.83	1.95	1.62	1.78
CSG150	2.45	2.60	2.20	2.40
CSG185	2.80	2.92	2.50	2.70
CSG270	4.60	4.90	4.12	4.45
CSG320	6.0	6.33	5.34	5.80
CSG385	7.0	7.41	6.30	6.80
CSG460	7.0	7.41	6.30	6.80
CSG520	10.5	11.12	9.43	10.20