



CED EVAPORATOR

ELECTRIC DEFROST WITH PATENTED POWER TRIM®

SUBMITTAL
CED-851A
NOV. 1994
 SUPERCEDES
 CED-851



Description:

The CED model unit coolers are specifically designed for commercial and industrial freezer applications, incorporating the time-proven Kramer-Electric defrost. The positive heat source and ease of serviceability make these units the popular choice in electric defrosting. These units are suitable for maintaining room temperatures in the range of +35° to -30°F. CED model evaporators, with patented Power-Trim, provides a faster defrost, reduces defrost heat input into the refrigerated space.

Model CED-1360 and larger have their defrost heaters grouped. A fused panel is provided as standard to protect each group in accord with the requirements of the National Electrical Code.

Features:

- Corrosion resistant casing, sturdy construction.
- Incoloy sheathed heaters.
- Coils constructed of copper tubes and aluminum fins.
- Industrial evaporators with 6 FPI.
- Heated drain pan for positive condensate drainage.
- Dependable ratings based on laboratory tests.
- Draw-thru air design.
- All models have motors with built-in overload protection.
- A fused panel for defrost heaters (model CED-1360 and larger).
- Optional high pressure propeller fans.

CAPACITY DATA-BTU/HR @ 10 TD⁽¹⁾

MODEL	EVAPORATOR TEMPERATURE - °F							
	+25°	+20°	+10°	0°	-10°	-20°	-30°	-40°
6 FPI CED-450	51550	51100	49800	48400	47000	45200	42900	40200
CED-620	70800	70100	68400	66600	64600	62200	59100	55400
CED-850	96580	96200	93200	90700	88100	84800	80600	77500
CED-1070	122050	120900	118700	115300	111600	107400	102000	95800
CED-1360	154250	152600	149200	145100	141000	135600	128800	120700
CED-1800	205650	203400	200700	194000	188000	180800	171800	161800

1. Ratings based on R-22.

PERFORMANCE DATA

6 FPI	MODEL	CFM (2)	Air Throw	Motors (4)		Total Fan Motor Amps (4)		Defrost Heaters		
				Qty.	H.P.	230-3-60	460-3-60	Watts	Amps	
									230/3	460/3
	CED-450D	8390	50	2	1/2	3.6	1.8	11050	26.0	15.0
	CED-450PP	11400	75	2	1-1/2	10.0	5.0	11050	26.0	15.0
	CED-620D	8200	50	2	1/2	3.6	1.8	11050	33.0	20.0
	CED-620PP	10900	75	2	1-1/2	10.0	5.0	11050	33.0	20.0
	CED-850D	12800	100	2	3/4	6.8	3.4	15120	35.0	20.0
	CED-850PP	17200	125	2	3	20.0	10.0	15120	35.0	20.0
	CED-1070D	14600	100	2	3/4	6.8	3.4	15120	47.0	27.0
	CED-1070PP	16400	125	2	3	20.0	10.0	15120	47.0	27.0
	CED-1360D	19700	100	3	3/4	10.2	5.1	29980	76.0	41.0
	CED-1360PP	22000	125	3	3	30.0	15.0	29980	76.0	41.0
	CED-1800D	26200	100	4	3/4	13.6	6.8	39200	100.0	53.0
	CED-1800PP	31200	125	4	3	40.0	20.0	39200	100.0	53.0

CONNECTION DATA

6 FPI	MODEL	Connections (5)			
		Suction O.D.	Liquid O.D.	Ext. Equal O.D.	Drain MPT
	CED-450D	1-3/8	7/8	1/4	3/4
	CED-450PP	1-3/8	7/8	1/4	3/4
	CED-620D	1-5/8	1-1/8	1/4	3/4
	CED-620PP	1-5/8	1-1/8	1/4	3/4
	CED-850D	1-5/8	1-1/8	1/4	3/4
	CED-850PP	1-5/8	1-1/8	1/4	3/4
	CED-1070D	2-1/8	1-1/8	1/4	3/4
	CED-1070PP	2-1/8	1-1/8	1/4	3/4
	CED-1360D	2-1/8	1-3/8	1/4	1
	CED-1360PP	2-1/8	1-3/8	1/4	1
	CED-1800D	2-1/8	1-3/8	1/4	1
	CED-1800PP	2-1/8	1-3/8	1/4	1

2. "D"-Direct Drive high efficiency propeller fans.
 "PP"-Direct Drive with high pressure axial propeller fans.
 Do NOT use "PP" models above +25° box temperature.
 "PP" models can operate with ESP up to 0.5".
 At this condition CFM will drop to "D" model CFM.
3. Unrestricted air flow.
4. Single phase motors available on "D" models only, contact factory.
5. Connection sizes are based on R-22, and may vary from catalog when actual site operating conditions are provided at time of order.

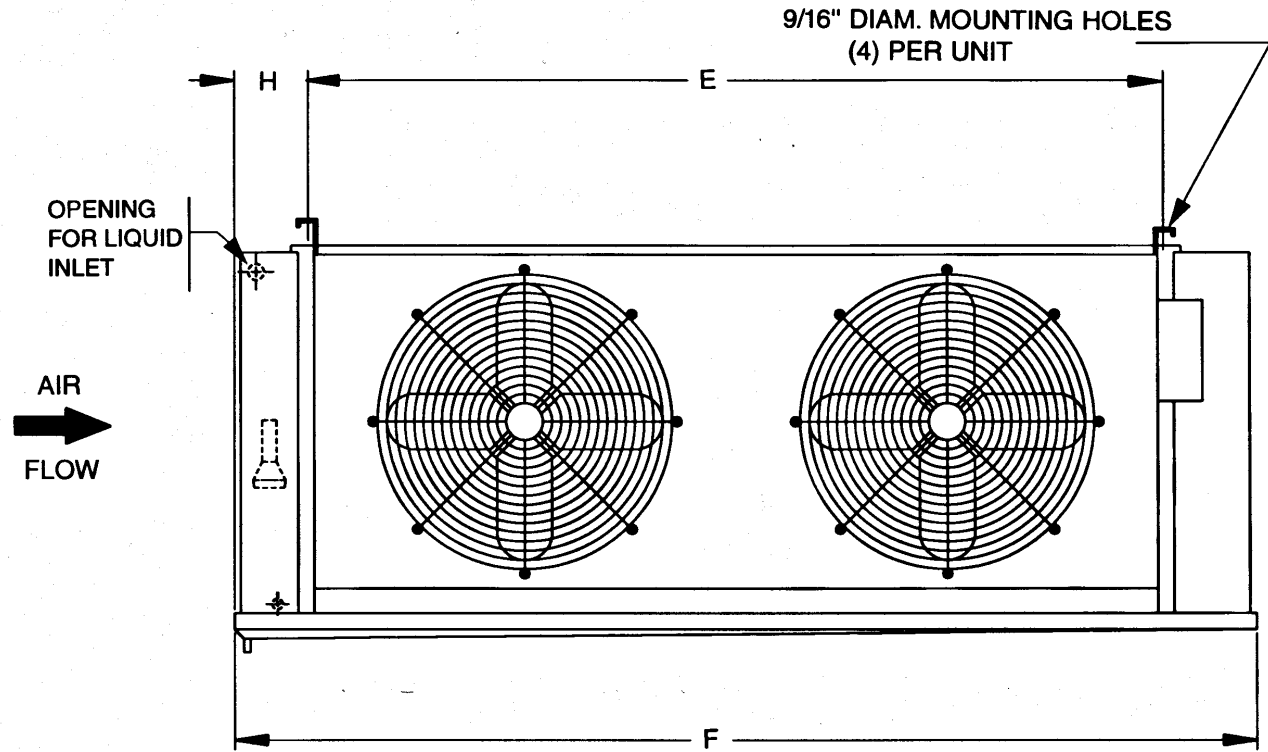
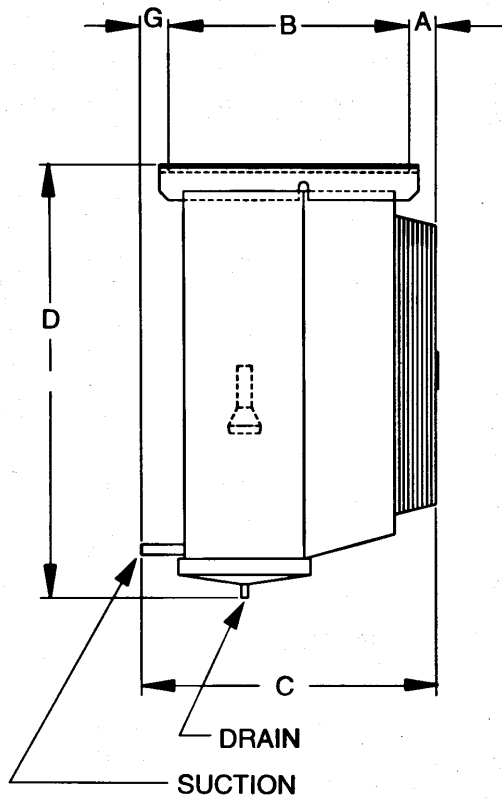
DIMENSIONAL DATA

MODEL	Dimensions (in)								Ref. Chrg. (lbs.) (6)	Approx. Ship Weight (lbs.)
	A	B	C	D	E	F	G	H		
CED-450D	3-1/4	26	31-3/4	42-1/2	58	75	2-1/2	7-1/2	8	470
CED-450PP	3-1/4	26	31-3/4	42-1/2	58	75	2-1/2	7-1/2	8	520
CED-620D	3-1/4	26	31-3/4	42-1/2	58	75	2-1/2	7-1/2	13	540
CED-620PP	3-1/4	26	31-3/4	42-1/2	58	75	2-1/2	7-1/2	13	570
CED-850D	3-1/4	26	31-3/4	42-1/2	94	111	2-1/2	7-1/2	17	815
CED-850PP	3-1/4	26	31-3/4	42-1/2	94	111	2-1/2	7-1/2	17	835
CED-1070D	3-1/4	26	31-3/4	42-1/2	94	111	2-1/2	7-1/2	19	920
CED-1070PP	3-1/4	26	31-3/4	42-1/2	94	111	2-1/2	7-1/2	19	930
CED-1360D	7-1/2	28-1/4	41-3/4	47-3/4	113-1/4	136	6	11-3/8	25	1460
CED-1360PP	7-1/2	28-1/4	41-3/4	47-3/4	113-1/4	136	6	11-3/8	25	1480
CED-1800D	7-1/2	28-1/4	41-3/4	47-3/4	151-1/4	174	6	11-3/8	33	2170
CED-1800PP	7-1/2	28-1/4	41-3/4	47-3/4	151-1/4	174	6	11-3/8	33	2260

6 FPI

6. Based on R-22.

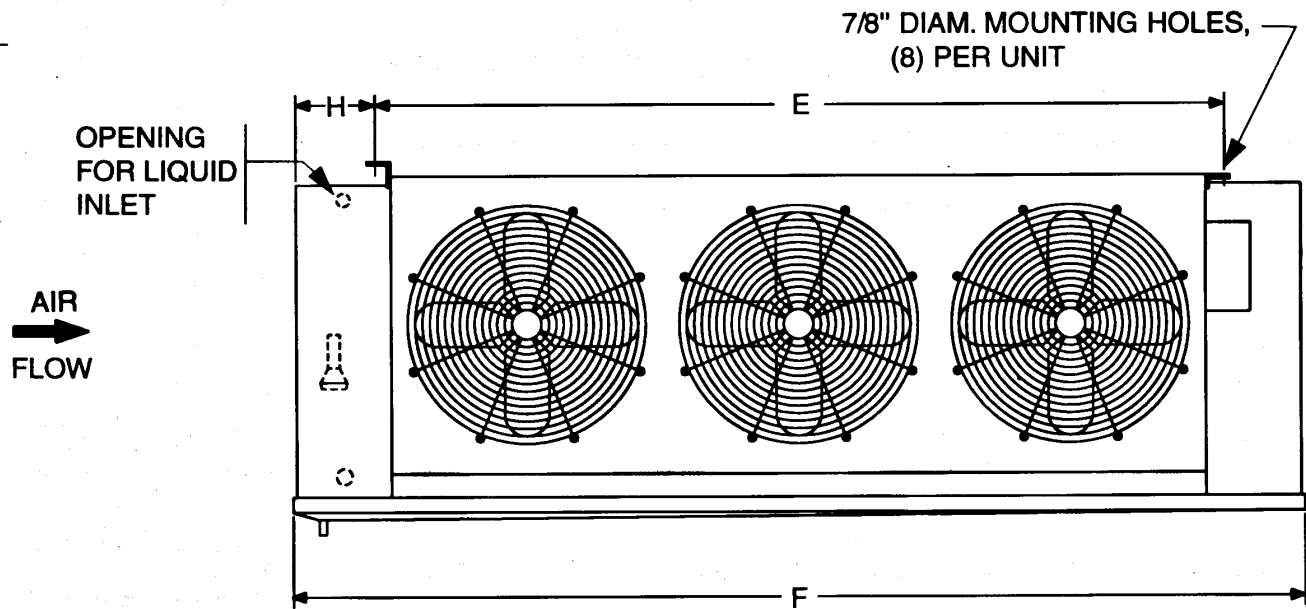
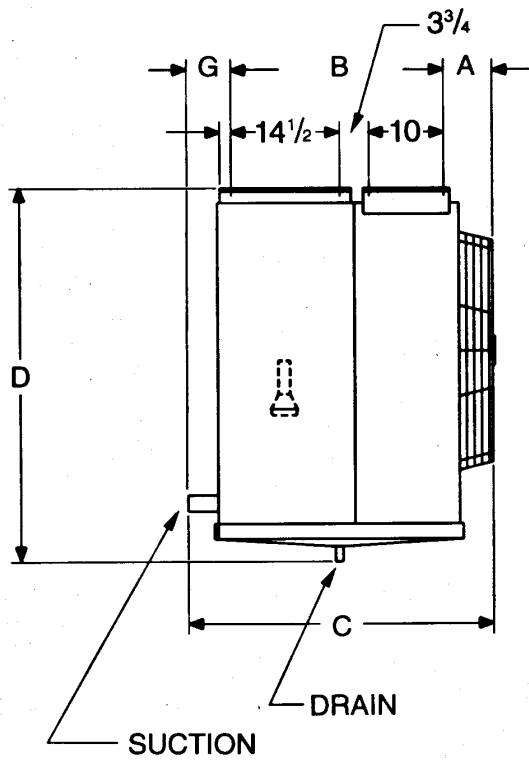
For your convenience the diagram(s) originally here has(have) been enlarged, and can be found just after this page in the Adobe document.



NOTES: - LEFT HAND COIL IS SHOWN, AND IS STANDARD. RIGHT HAND COIL MUST BE SPECIFIED WHEN ORDERING.

- ALL DIMENSIONS ARE IN INCHES.

MODELS: CED-450, 620, 850, AND 1070.



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 - ALL DIMENSIONS ARE IN INCHES.

MODELS: CED-1360 AND 1800

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