

Kramer Electric Defrost Low Temperature Evaporators- 11.4 Ton

Mfg: Kramer

Model: KED-1200D

Stock No. PTBD001.

Serial No. E9473031-0110

(10) Kramer Electric Defrost Low Temperature Evaporators- 11.4 Ton (each). Model: KED-1200D. S/N's: E9473031-0110, E9473031-0111, E9473031-0112, E9473031-0113, E9473031-0114, E9473031-0115, E9473031-0116, E9473031-0117, E9473031-0118, E9473031-0119. Indoor use only. Refrigerant: R-22. Test pressure: 300 psig. Airflow performance: 20,200 cfm. Air throw: 100 ft (unrestricted air flow). Capacity (BTU/hr @ 10° TD, R-22): 25 °F - 136,900, 10 °F - 132,000, -10 °F - 128,400, -30 °F - 114,000. (3) General Electric Fan Motors, 3/4 hp, 950 rpm, 460 V, 1.4 amps, 60 Hz, 3 phase. The KED model unit coolers are specifically designed for commercial and industrial freezer applications. KED-1200 units have their defrost heaters grouped. A fused panel is provided as standard to protect each group in accord with the requirements of the National Electric Code. Each unit features direct drive, high-efficiency propeller fans. Inlets: (1) 2-1/2 in. dia. copper fitting. Outlets: (1) 3/4 in. dia. copper fitting, (1) 1 in. dia. NPT (male, drain). Overall dimensions: 10 ft. 7 in. L x 36 in. W x 43-1/2 in. H. ACN235.







KED EVAPORATOR

ELECTRIC DEFROST WITH PATENTED POWER TRIM®

SUBMITTAL
KE-737J
NOV. 1994
 SUPERCEDES
 KE-737I



Description:

The KED 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. KED model evaporators, with patented Power-Trim, provides a faster defrost, reduces defrost heat input into the refrigerated space.

Model KED-1200 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 4 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 KED-1200 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° |
| 4 FPI KED-400 | 45800 | 45200 | 44000 | 42800 | 41600 | 40000 | 38000 | 35600 |
| KED-550 | 62900 | 62000 | 60500 | 58900 | 57200 | 55000 | 52300 | 49000 |
| KED-750 | 86200 | 85000 | 82500 | 80300 | 78000 | 75000 | 71300 | 66800 |
| KED-950 | 108500 | 107000 | 105000 | 102000 | 98800 | 95000 | 90300 | 84800 |
| KED-1200 | 136900 | 135000 | 132000 | 124800 | 128400 | 120000 | 114000 | 106800 |
| KED-1600 | 182500 | 180000 | 177600 | 172000 | 166400 | 160000 | 152000 | 143200 |

1. Ratings based on R-22.

PERFORMANCE DATA

| 4 FPI | MODEL | CFM (2) | Air Throw (FT) (3) | Motors (4) | | Total Fan Motor Amps (4) | | Defrost Heaters | | |
|------------------|----------|---------|--------------------|------------|--------|--------------------------|----------|-----------------|------|------|
| | | | | Qty. | H.P. | 230-3-60 | 460-3-60 | Watts | Amps | |
| | 230/3 | 460/3 | | | | | | | | |
| | KED-400D | 8600 | 50 | 2 | 1/2 1- | 3.6 | 1.8 | 11050 | 26.0 | 15.0 |
| KED-400PP | 11700 | 75 | 2 | 1/2 | 10.0 | 5.0 | 11050 | 26.0 | 15.0 | |
| KED-550D | 8400 | 50 | 2 | 1/2 1- | 3.6 | 1.8 | 11050 | 33.0 | 20.0 | |
| KED-550PP | 11200 | 75 | 2 | 1/2 | 10.0 | 5.0 | 11050 | 33.0 | 20.0 | |
| KED-750D | 13100 | 100 | 2 | 3/4 3 | 6.8 | 3.4 | 15120 | 35.0 | 20.0 | |
| KED-750PP | 17600 | 125 | 2 | | 20.0 | 10.0 | 15120 | 35.0 | 20.0 | |
| KED-950D | 15000 | 100 | 2 | 3/4 3 | 6.8 | 3.4 | 15120 | 47.0 | 27.0 | |
| KED-950PP | 16800 | 125 | 2 | | 20.0 | 10.0 | 15120 | 47.0 | 27.0 | |
| KED-1200D | 20200 | 100 | 3 | 3/4 3 | 10.2 | 5.1 | 29980 | 76.0 | 41.0 | |
| KED-1200PP | 22600 | 125 | 3 | | 30.0 | 15.0 | 29980 | 76.0 | 41.0 | |
| KED-1600D | 26900 | 100 | 4 | 3/4 3 | 13.6 | 6.8 | 39200 | 100.0 | 53.0 | |
| KED-1600PP | 32000 | 125 | 4 | | 40.0 | 20.0 | 39200 | 100.0 | 53.0 | |

CONNECTION DATA

| 4 FPI | MODEL | Connections (5) | | | |
|------------------|-------|-----------------|-------------|-----------------|-----------|
| | | Suction O.D. | Liquid O.D. | Ext. Equal O.D. | Drain MPT |
| KED-400D | 1-3/8 | 7/8 | 1/4 | 3/4 | |
| KED-400PP | 1-3/8 | 7/8 | 1/4 | 3/4 | |
| KED-550D | 1-5/8 | 1-1/8 | 1/4 | 3/4 | |
| KED-550PP | 1-5/8 | 1-1/8 | 1/4 | 3/4 | |
| KED-750D | 1-5/8 | 1-1/8 | 1/4 | 3/4 | |
| KED-750PP | 1-5/8 | 1-1/8 | 1/4 | 3/4 | |
| KED-950D | 2-1/8 | 1-1/8 | 1/4 | 3/4 | |
| KED-950PP | 2-1/8 | 1-1/8 | 1/4 | 3/4 | |
| KED-1200D | 2-1/8 | 1-3/8 | 1/4 | 1 | |
| KED-1200PP | 2-1/8 | 1-3/8 | 1/4 | 1 | |
| KED-1600D | 2-1/8 | 1-3/8 | 1/4 | 1 | |
| KED-1600PP | 2-1/8 | 1-3/8 | 1/4 | 1 | |

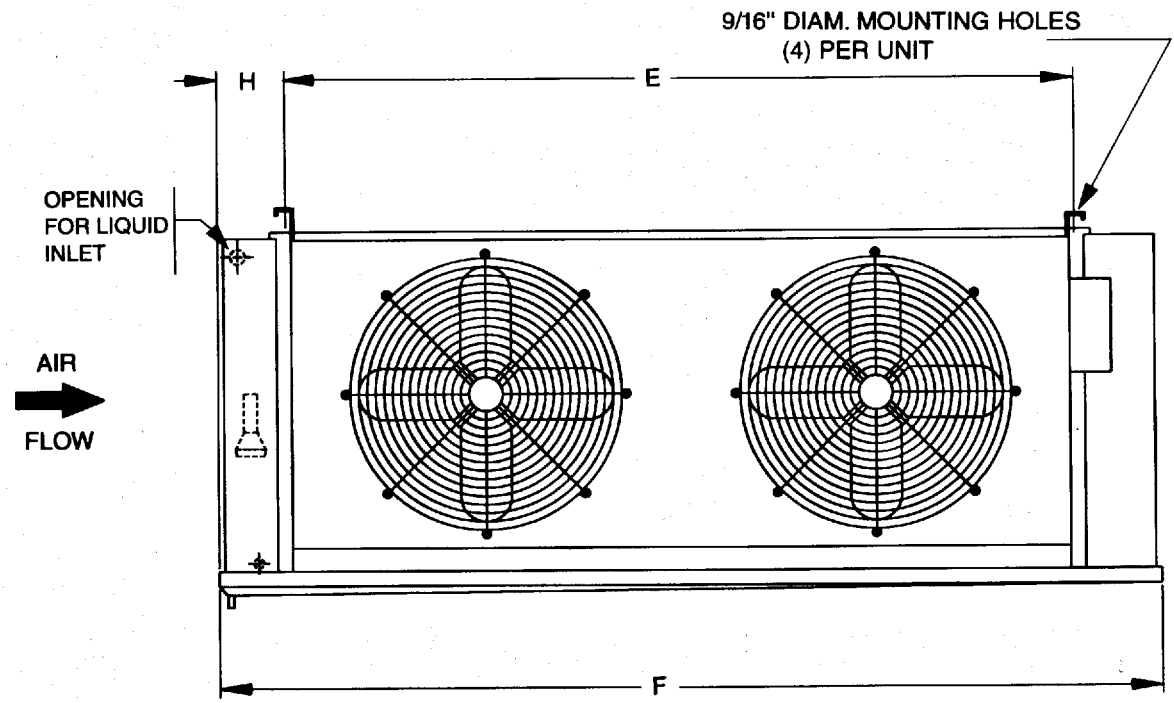
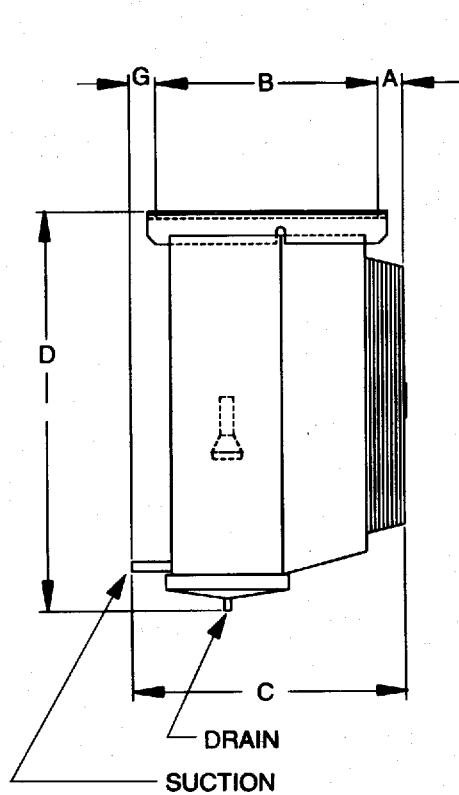
2. "D"-Direct Drive High efficiency propeller fans.
 "PP"-Direct drive with high pressure axial propeller fans.
 Do NOT use "PP" models above +25° box temperature.
 "PP" models can operate with ESP up to 0.5".
 At this condition CFM will drop to "D" model CFM.
3. Unrestricted air flow.
4. Single phase 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 | | |
| 4 FPI | KED-400 D | 3-1/4 | 26 | 31-3/4 | 42-1/2 | 58 | 75 | 2-1/2 | 7-1/2 | 8 | 470 |
| | KED-400PP | 3-1/4 | 26 | 31-3/4 | 42-1/2 | 58 | 75 | 2-1/2 | 7-1/2 | 8 | 520 |
| | KED-550D | 3-1/4 | 26 | 31-3/4 | 42-1/2 | 58 | 75 | 2-1/2 | 7-1/2 | 13 | 540 |
| | KED-550PP | 3-1/4 | 26 | 31-3/4 | 42-1/2 | 58 | 75 | 2-1/2 | 7-1/2 | 13 | 570 |
| | KED-750D | 3-1/4 | 26 | 31-3/4 | 42-1/2 | 94 | 111 | 2-1/2 | 7-1/2 | 17 | 815 |
| | KED-750PP | 3-1/4 | 26 | 31-3/4 | 42-1/2 | 94 | 111 | 2-1/2 | 7-1/2 | 17 | 835 |
| | KED-950D | 3-1/4 | 26 | 31-3/4 | 42-1/2 | 94 | 111 | 2-1/2 | 7-1/2 | 19 | 920 |
| | KED-950PP | 3-1/4 | 26 | 31-3/4 | 42-1/2 | 94 | 111 | 2-1/2 | 7-1/2 | 19 | 930 |
| | KED-1200D | 7-1/2 | 28-1/4 | 41-3/4 | 47-3/4 | 113-1/4 | 136 | 6 | 11-3/8 | 25 | 1460 |
| | KED-1200PP | 7-1/2 | 28-1/4 | 41-3/4 | 47-3/4 | 113-1/4 | 136 | 6 | 11-3/8 | 25 | 1480 |
| KED-1600D | 7-1/2 | 28-1/4 | 41-3/4 | 47-3/4 | 151-1/4 | 174 | 6 | 11-3/8 | 33 | 2170 | |
| KED-1600PP | 7-1/2 | 28-1/4 | 41-3/4 | 47-3/4 | 151-1/4 | 174 | 6 | 11-3/8 | 33 | 2260 | |

6. Based on R-22.

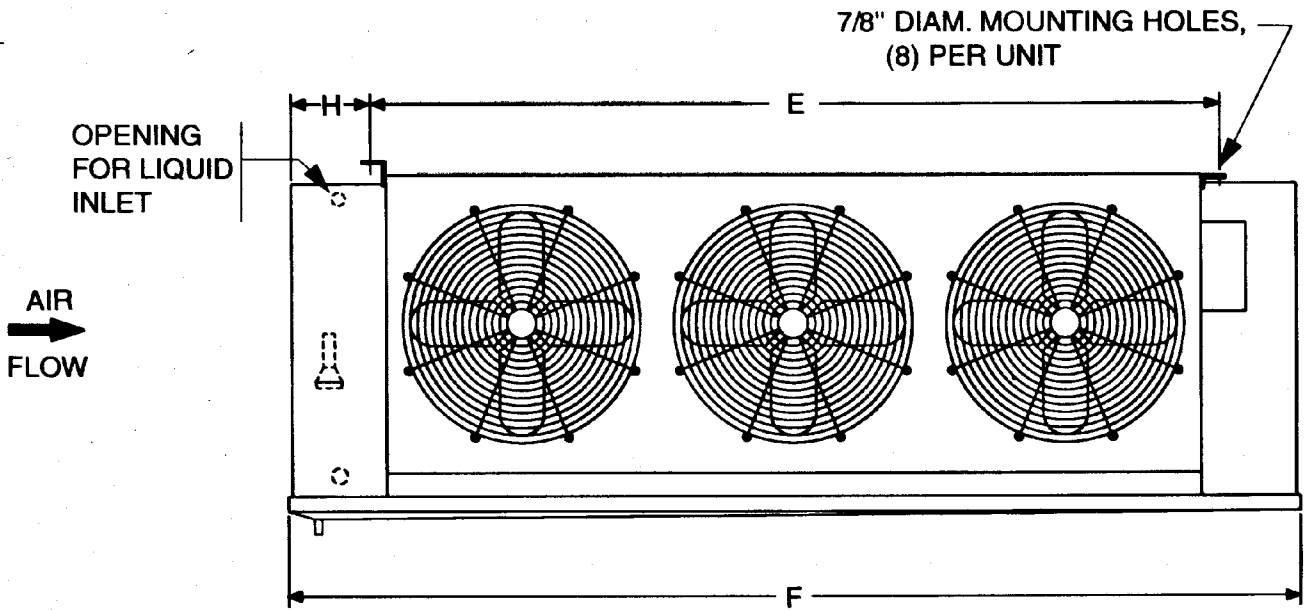
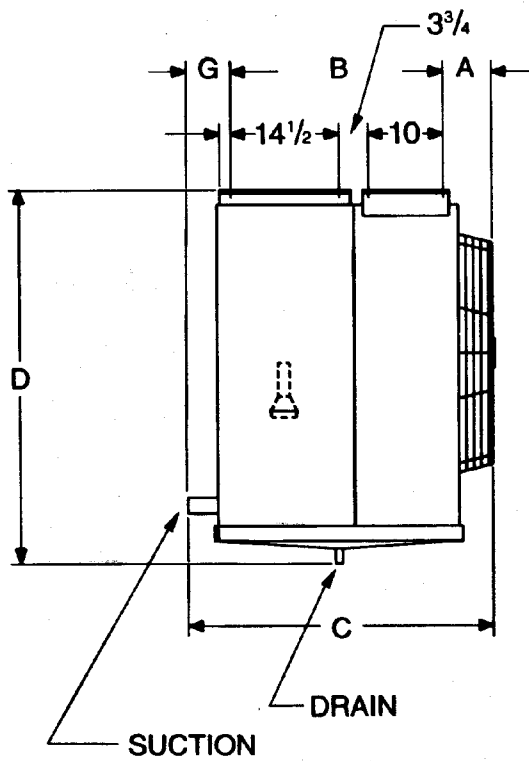
For your convenience the diagram(s) originally here has(have) been enlarged, and can be found just after this page in the Adobe document.



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

- ALL DIMENSIONS ARE IN INCHES.

MODELS: KED-400, 550, 750, AND 950.



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 - ALL DIMENSIONS ARE IN INCHES.

MODELS: KED-1200, AND 1600.

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