

LPE Series

Low Profile Unit Cooler

Electric Defrost



The Kramer Low Profile Electric unit cooler is the ideal solution for problem areas with limited head room. These units are ceiling mounted; thereby saving space for product storage.

With a Low Profile draw-thru design, uniform air distribution is achieved.

These units can operate in the temperature range of -20°F to +35°F. They are ideally suited for low temperature frozen food storage and medium temperature holding rooms.

Features:

- Low Unit Height
- Corrosion resistant Aluminum cabinet
- Coils constructed of Copper tubes and Aluminum fins
- Dependable ratings based on laboratory tests
- Interchangeable fans and motors on all models
- All motors are permanently lubricated with overload protection
- Available in 4 or 6 FPI
- Sloped drain pan built-in for positive condensate drainage
- Factory wired for quick field installation
- Non-Adjustable defrost termination thermostat
- Heater safety switch
- Electrical knockouts on front, back and top
- Hinged end panel design for easy installation of TXV and solenoid valves
- NSF approved
- UL and cUL listed
- Available with PSC or EC motors



Electric Defrost /Capacity Data

	Model Number	EVAPORATOR TEMPERATURE - °F						
		BTU/HR @ 10° TD'						
		+25°	+20°	+10°	0°	-10°	-20°	-30°
6 FPI	LPE- 35	4200	4100	4000	3900	3700	3500	3300
	LPE- 41	4800	4700	4600	4500	4300	4100	3900
	LPE- 46	5300	5200	5100	5000	4800	4600	4400
	LPE- 63	7400	7200	7000	6800	6600	6300	5900
	LPE- 71	8200	8000	7800	7600	7400	7100	6700
	LPE- 92	10600	10400	10200	9900	9600	9200	8800
	LPE- 120	13800	13500	13200	12900	12500	12000	11400
	LPE- 138	15900	15600	15300	14900	14400	13800	13100
	LPE- 162	18700	18300	17900	17500	16900	16200	15400
	LPE- 184	21200	20800	20400	19900	19200	18400	17500
	LPE- 220	25300	25000	24600	23900	23000	22000	21000
	LPE- 240	27700	27200	26700	25900	25000	24000	22800
LPE- 265	30500	30000	29500	28600	27600	26500	25200	
4 FPI	LPE- 38	4500	4400	4300	4200	4000	3800	3600
	LPE- 70	8100	7900	7700	7500	7300	7000	6600
	LPE- 86	9800	9600	9400	9200	9000	8600	8100
	LPE- 106	12100	11900	11700	11400	11100	10600	10100
	LPE- 142	16500	16100	15700	15300	14800	14200	13500
	LPE- 182	21000	20600	20200	19700	19000	18200	17300
	LPE- 214	24600	24100	23600	23100	22300	21400	20300

Electric Defrost /Performance Data

	Model Number	CFM (3)	Air Throw (ft.) (2) (3)	Motor Qty.	Total Fan Motor Amps (4)				Defrost Heaters (5)			
					SP		PSC*	EC*	Watts	Amps		
					230V	460V	230V	230V		230V/1PH	230V/3PH	460V/1PH
6 FPI	LPE- 35	750	12	1	1.00	0.54	0.5	0.45	1000	4.4	2.6	2.2
	LPE- 41	720	12	1	1.00	0.54	0.5	0.45	1000	4.4	2.6	2.2
	LPE- 46	700	12	1	1.00	0.54	0.5	0.45	1000	4.4	2.6	2.2
	LPE- 63	1380	15	2	2.00	1.08	1.0	0.90	1600	7.0	6.0	3.5
	LPE- 71	1350	15	2	2.00	1.08	1.0	0.90	1600	7.0	6.0	3.5
	LPE- 92	1390	15	2	2.00	1.08	1.0	0.90	2000	8.7	7.5	4.4
	LPE- 120	2130	20	3	3.00	1.62	1.5	1.35	3000	13.0	11.3	6.4
	LPE- 138	2070	20	3	3.00	1.62	1.5	1.35	3000	13.0	11.3	6.4
	LPE- 162	2740	25	4	4.00	2.16	2.0	1.80	4000	17.4	15.1	8.7
	LPE- 184	2650	25	4	4.00	2.16	2.0	1.80	4000	17.4	15.1	8.7
	LPE- 220	3410	30	5	5.00	2.70	2.5	2.25	5000	—	18.8	10.9
	LPE- 240	4110	35	6	6.00	3.24	3.0	2.70	6000	—	22.6	13.0
LPE- 265	3980	35	6	6.00	3.24	3.0	2.70	6000	—	22.6	13.0	
4 FPI	LPE- 38	750	12	1	1.00	0.54	0.5	0.45	1000	4.4	2.6	2.2
	LPE- 70	1480	15	2	2.00	1.08	1.0	0.90	2000	8.7	7.5	4.4
	LPE- 86	1440	15	2	2.00	1.08	1.0	0.90	2000	8.7	7.5	4.4
	LPE- 106	2220	20	3	3.00	1.62	1.5	1.35	3000	13.0	11.3	6.4
	LPE- 142	3050	25	4	4.00	2.16	2.0	1.80	4000	17.4	15.1	8.7
	LPE- 182	3550	30	5	5.00	2.70	2.5	2.25	5000	—	18.8	10.9
	LPE- 214	4290	35	6	6.00	3.24	3.0	2.70	6000	—	22.6	13.0

- Standard units based on R404A.
- Unrestricted air flow.
- Optional high throw fan guards available.
- All motors are wired for single phase power.
- For 208/230V models, heaters are wired to accept single phase power for 1 through 4 fan models. 5 and 6 fan models are wired for 3 phase. 460V models are only available in single phase wiring and are compatible with all three phase systems.

*PSC = Permanent Split Capacitor EC = Electronically Commutated Motor SP = Shaded Pole

Dimensional Data

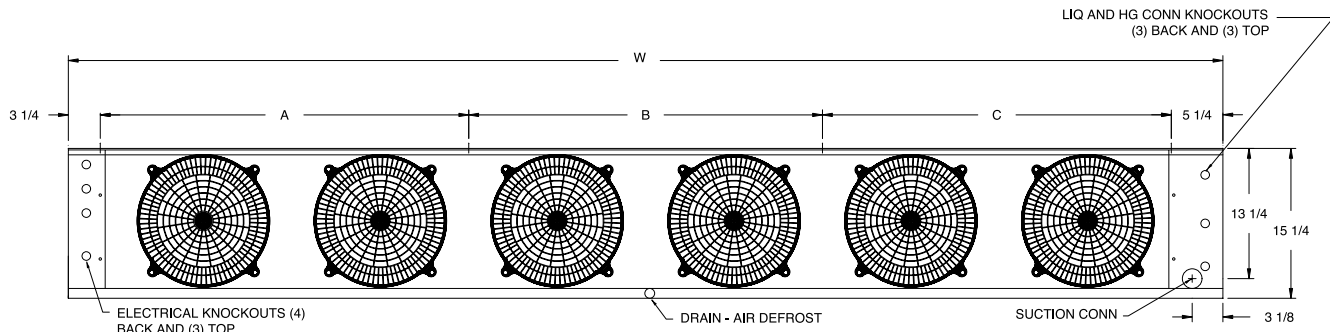
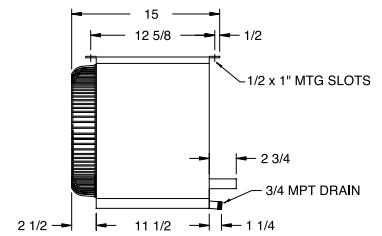
	Model	Connections (in) ¹				No. of Hangers	Dimensions (Inches)				Ref. Charge (lbs.) ¹	Ship Wt. (lbs.)
		Liquid O.D.	Suction O.D.	TXV Type	Drain MPT		A	B	C	W		
6 FPI	LPE- 35	1/2 ODS	5/8 ODS	EXT	3/4	2	19	—	—	27½	0.8	41
	LPE- 41	1/2	5/8	EXT	3/4	2	19	—	—	27½	1.2	44
	LPE- 46	1/2	5/8	EXT	3/4	2	19	—	—	27½	1.6	47
	LPE- 63	1/2	7/8	EXT	3/4	2	33	—	—	41½	1.3	61
	LPE- 71	1/2	7/8	EXT	3/4	2	33	—	—	41½	2.0	67
	LPE- 92	1/2	7/8	EXT	3/4	2	37	—	—	45½	3.0	74
	LPE- 120	1/2	7/8	EXT	3/4	2	55	—	—	63½	3.2	105
	LPE- 138	1/2	1-1/8	EXT	3/4	2	55	—	—	63½	4.3	115
	LPE- 162	1/2	1-1/8	EXT	3/4	3	36½	36½	—	81½	4.3	140
	LPE- 184	1/2	1-1/8	EXT	3/4	3	36½	36½	—	81½	5.7	155
	LPE- 220	1/2	1-1/8	EXT	3/4	3	54½	36½	—	99½	5.3	225
	LPE- 240	1/2	1-1/8	EXT	3/4	4	36½	36	36½	117½	6.3	250
	LPE- 265	1/2	1-1/8	EXT	3/4	4	36½	36	36½	117½	8.4	270

4 FPI	LPE- 38	1/2 ODS	5/8 ODS	EXT	3/4	2	19	—	—	27½	1.2	42
	LPE- 70	1/2	7/8	EXT	3/4	2	37	—	—	45½	2.2	67
	LPE- 86	1/2	7/8	EXT	3/4	2	37	—	—	45½	3.0	72
	LPE- 106	1/2	1-1/8	EXT	3/4	2	55	—	—	63½	3.2	100
	LPE- 142	1/2	1-1/8	EXT	3/4	3	36½	36½	—	81½	4.3	135
	LPE- 182	1/2	1-1/8	EXT	3/4	3	54½	36½	—	99½	5.3	220
	LPE- 214	1/2	1-1/8	EXT	3/4	4	36½	36	36½	117½	6.3	245

1. Based on R-404A.
2. Unrestricted flow.
3. High throw fan guards are available as an option.
4. All motors are wired for a single phase power.
5. For 208/230 Volt models, heaters are wired as standard for single phase on 1 - 4 fan models.
5 & 6 Fan models are wired for 3 phase. 460 Volt models are only available in single phase and are compatible with all 3 phase systems.

Installation Notes:

- (1) Install 12" away from back wall.
- (2) All dimensions are in inches.



KRAMER's EC Motors bring the benefits inherent to unit bearing motor design to the refrigeration Unit Cooler market.

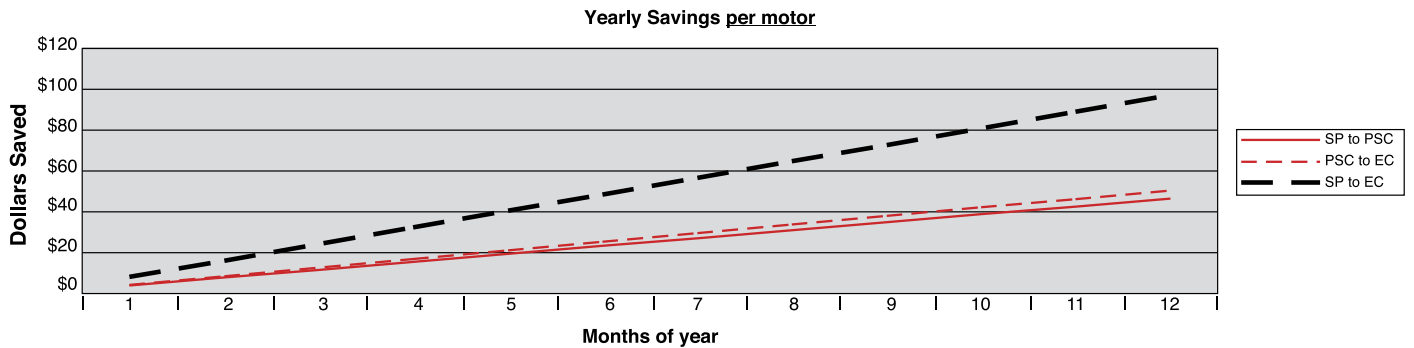
- Large oil reservoir
- Totally enclosed construction
- **Journal bearing machined into the cast iron endbell**
- Spiral grooved shaft pump **guarantees** positive oil circulation
- **Threaded shaft uses hubless fan blade.**

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

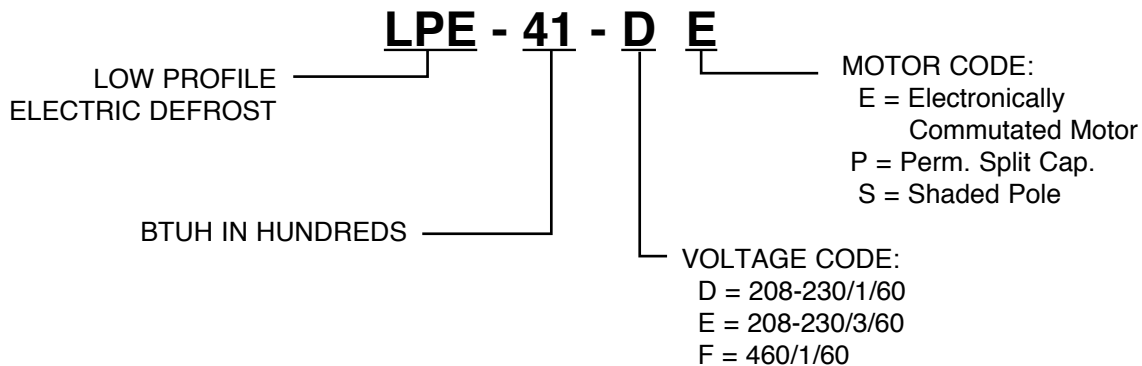
Energy Savings per Motor

Motor Change	Std Motor Power Watts/Mtr	Change to Motor Power Watts/Mtr	Reduced Power Watts/Mtr	Run Time Hrs/Day	Motor Energy Savings kWh/Yr	Motor Energy Savings \$/Yr	Reduced Box Load MBTU/Yr	Cond. Unit Energy Savings \$/Yr	Yearly Saving \$ Per MTR	Pay back in Yrs
SP to PSC	120	85	35	22	281	28	959	18	47	0.6
PSC to EC	85	47	38	22	305	31	1041	20	51	2.0
SP to EC	120	47	73	22	586	59	2000	38	97	1.3

SP = 1/20 HP Shaded pole motor
PSC = 1/20 HP PSC motor
EC = 50 Watt Electronically Commutated motor



Nomenclature:



KM-LPE-0412A