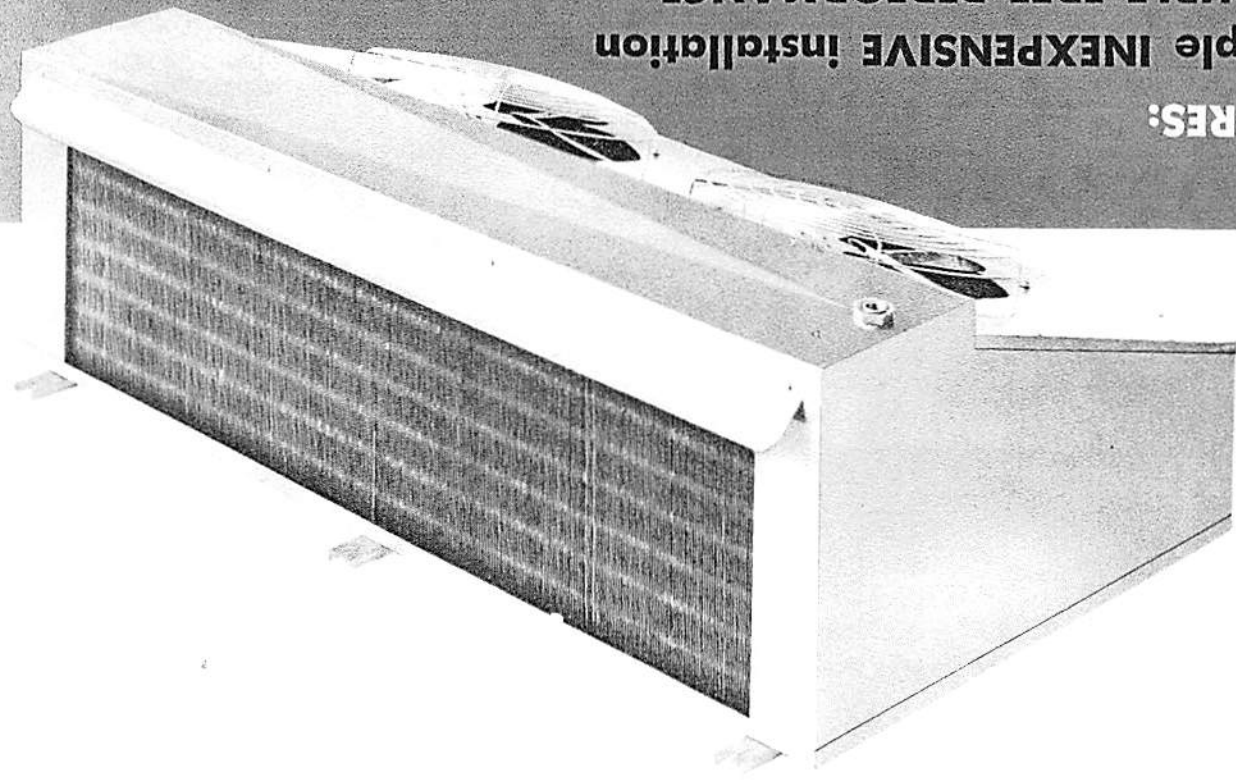
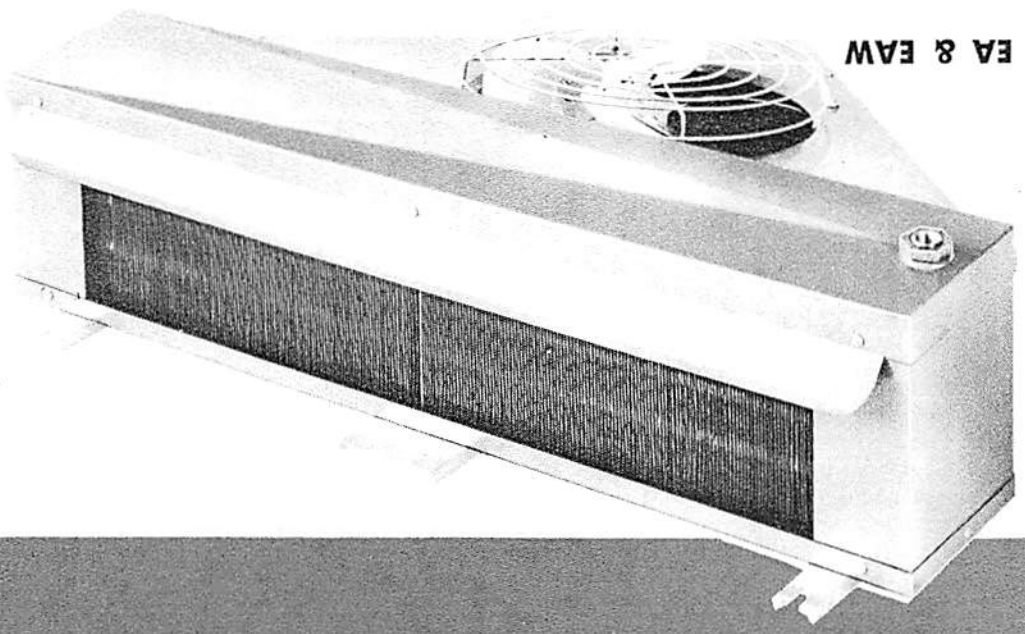


- ★ NO HOOD REQUIRED
 - ★ LIFETIME STAINLESS STEEL HEATER ELEMENTS
 - ★ FINS BONDED TO TUBES BY MECHANICAL EXPANSION
 - ★ CHOICE OF FIN SPACING
 - ★ TROUBLE FREE PERFORMANCE
 - ★ Simple INEXPENSIVE installation
- FEATURES:**



EB & EBW



EA & EAW

**COMPLETE AUTOMATIC
DEFROSTING** ★ **FIELD TESTED
and
FIELD PROVEN**

LOW TEMPERATURE APPLICATIONS BELOW 32°F.—F-12 or F-22

ELECTRIC DEFROST COILS

L.R.C. Coils Lanpherc Refrigeration Corp.

L.R.C. ELECTRIC DEFROST COILS MODELS EA and EB - EAW and EBW

*L.R.C. ELECTRIC DEFROST COILS are for applications from +32°F. to -30°F. (Minus 30°F.)

All Models are **230 VOLT STANDARD**.

Time Clocks and other controls must be purchased separately.

Heat interchangers are not furnished with coil, but may be ordered from factory at slight additional cost. (See price list.)

L.R.C. ELECTRIC DEFROST METHOD

The L.R.C. electric defrost evaporator utilizes the high conductivity of the aluminum finned, copper tube coil by inserting a stainless steel sheathed tubular heater through the fins of the coil core. During the defrost cycle heat is rapidly transferred from the inside of the coil core through the aluminum fins and copper tubes to the outer perimeter of the coil. Radiation and convection of heat also help in the defrosting process. The electric heating element inside the coil core has an extended loop clamped against the bottom of the coil core. This loop defrosts rapidly the bottom section of the coil core and the drainpan. (The larger models of L.R.C. Electric defrost coils are provided with a separate heater instead of the extended loop under the coil core to accomplish this same purpose.)

L.R.C. ELECTRIC DEFROST COIL CONSTRUCTION

All L.R.C. Electric Defrost Coils are manufactured with the tubing mechanically expanded to the fins. The fin collars that encompass the tubes are die-formed without splits or ruptures so that the fins cannot become loose. This is especially important in an electric defrost coil. Due to the electric heat defrost cycle, the coil is subjected to large rapid temperature changes. However, even this frequent expansion and contraction will not affect the tube to fin bond.

The "EA" and "EB" Models are **standard fin spacing (7 to the inch)** while the "EAW" and "EBW" Models are **wide fin spacing (5 to the inch.)** When heavy usage or product conditions are likely to cause excess humidity and resultant rapid frost accumulation on the coil, it is recommended that the wide fin spacing coils be selected. The standard fin spacing coils are recommended only for holding boxes, etc. where frost accumulation on the coil is more gradual.

Heavy gauge galvanized steel housings are treated for painting and an attractive, durable, baked enamel hammertone finish is applied.

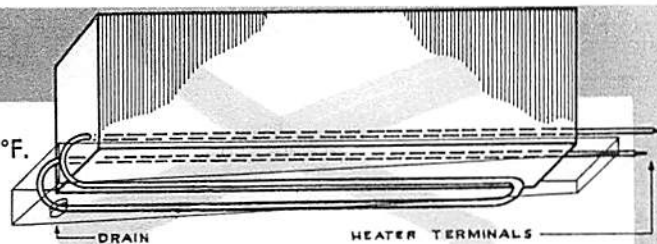
Rugged channels are used for coil hangers.

Heavy duty motors with built in overload protection and permanently lubricated bearings are used on all L.R.C. electric defrost coils. All motors have resilient mountings.

The drain pan is pitched to assure positive drainage during the defrost cycle.

L.R.C. electric defrost coils are circuited to derive maximum efficiency from the coil surface.

All components are treated for protection against rust.



INSTALLATION SUGGESTIONS

- (1) **COIL SELECTION.** Should be based on operation of maximum 10° T.D. or less for low temperature installation not only because of the lower output of the refrigeration compressor at the lower suction temperatures but also because otherwise too heavy an ice build up will in many instances occur.
- (2) **THERMOSTATIC EXPANSION VALVE.** It is recommended that a pressure limiting type valve be used. Be sure that valve is properly sized to system capacity and suction temperature. Use external equalizer type valve on Models EA-827 and EAW-790 and larger. Check superheat adjustment after box has pulled down to operating temperature to be sure that full coil surface is being utilized.
- (3) **DEFROST TIME SWITCH.** It is recommended that a Paragon 300-MB series or 8000 series timer be used to control the defrost cycle. The timer should be installed at a location convenient to the wiring layout outside of the refrigerator. See wiring diagram for typical hook-up. Be sure wiring complies with national and local electrical codes.
- (4) **REFRIGERATION PIPING.** Select refrigeration piping sizes for minimum pressure drop. This will insure maximum performance of the system.
- (5) **DRAIN LINE.** The drain line should be copper tube as short as possible and pitched approximately 45°. If a long drain line is necessary, wrap it with a length of heater cable and insulation.
- (6) **FAN DELAY CONTROL.** During the defrost cycle, it is possible that the coil becomes quite warm. If the fans are allowed to come on immediately at the end of the defrost cycle, warm, humid air might be blown from the coil causing a pressure inside the box. To eliminate this, it is recommended that a fan delay control be used. This can be of the reverse acting thermostat type. These fan delay controls are stocked at the factory, if unavailable locally. Consult factory for prices.
- (7) **DEFROST CYCLE TIME SETTING.** When setting defrost cycle time, be sure that coil is completely free of frost. Do not allow defrost cycle to be longer than necessary, however, because this adds unnecessary heat to the box.

SPECIFICATIONS L.R.C. ELECTRIC DEFROST COILS

All Motors and Heaters Are 230 Volt Standard

Wide Fin Spacing Electric Defrost Coils (for most low temp. applications)

MODEL	CAP. BTU/HR. 10" ID	MOTOR H.P.	FAN	AIR VOL. C.F.M.	APPR. AIR THROW	TOTAL HEATER WATT.	CONNECTIONS		DRAIN	DIMENSIONS					
							LIQUID	SUCTION		A	B	C	D	E	F
EAW 585	5,850	1/12	12"	1185	24"	2000	1/2"	5/8"	1/2"	38	13	26	24 1/2	16	35
EAW 790	7,900	1/6	14"	1595	28"	2600	1/2"	1 1/8"	1/2"	43	14 3/4	28 1/2	27	18 1/2	37
EAW 902	9,020	1/6	14"	1815	30"	2600	1/2"	1 1/8"	1/2"	43	16 1/2	28 1/2	27	18 1/2	37
EAW 1015	10,150	1/6	14"	2030	32"	2600	1/2"	1 1/8"	1/2"	43	18 1/4	28 1/2	27	18 1/2	37
EAW 1183	11,830	1/6	14"	1595	28"	2600	1/2"	1 1/8"	1/2"	43	14 3/4	28 1/2	27	18 1/2	37
EAW 1352	13,520	1/6	14"	1815	30"	2600	1/2"	1 1/8"	1/2"	43	16 1/2	28 1/2	27	18 1/2	37
EAW 1437	14,370	2-1/12	2-1/12	2875	37"	3500	1/2"	1 3/8"	1/2"	53	20	28 1/2	27	23 1/2	47
EAW 1727	17,270	2-1/16	2-1/16	2315	34"	4100	1/2"	1 3/8"	1/2"	53	16 1/2	28 1/2	27	23 1/2	47
EAW 1945	19,450	2-1/6	2-1/6	2600	36"	4100	1/2"	1 3/8"	1/2"	53	18 1/4	28 1/2	27	23 1/2	47
EAW 2158	21,580	2-1/6	2-1/6	2875	37"	4100	1/2"	1 3/8"	1/2"	53	20	28 1/2	27	23 1/2	47
EAW 2623	26,230	2-1/6	2-1/6	3500	42"	5500	1/2"	1 5/8"	1/2"	64	20 1/2	28 1/2	27	28 1/2	57
EAW 3148	31,480	2-1/4	2-1/4	4180	46"	5500	1/2"	1 5/8"	1/2"	64	24	28 1/2	27	28 1/2	57
EAW 3420	34,200	2-1/4	2-1/4	4520	48"	5500	1/2"	1 5/8"	1/2"	64	25 3/4	28 1/2	27	28 1/2	57

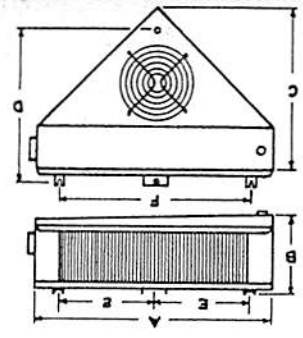
Close Fin Spacing Electric Defrost Coils (for holding boxes only)

EA 355	3,550	1/30	12"	500	17"	2000	1/2"	5/8"	1/2"	38	9 1/2	26	24 1/2	16	32
EA 475	4,750	1/30	12"	650	20"	2000	1/2"	5/8"	1/2"	38	9 1/2	26	24 1/2	16	32
EA 595	5,950	1/12	12"	800	22"	2000	1/2"	5/8"	1/2"	38	11 1/4	26	24 1/2	16	32
EA 712	7,120	1/12	12"	960	24"	2600	1/2"	5/8"	1/2"	38	13	26	24 1/2	16	32
EA 827	8,270	1/12	14"	1100	26"	2600	1/2"	1 1/8"	1/2"	43	13	28 1/2	27	18 1/2	37
EA 966	9,660	1/6	14"	1280	28"	2600	1/2"	1 1/8"	1/2"	43	14 3/4	28 1/2	27	18 1/2	37
EA 1103	11,030	1/6	14"	1460	30"	2600	1/2"	1 1/8"	1/2"	43	16 1/2	28 1/2	27	18 1/2	37
EA 1242	12,420	1/6	14"	1630	32"	2600	1/2"	1 1/8"	1/2"	43	18 1/4	28 1/2	27	18 1/2	37
EA 1410	14,100	2-1/6	2-1/6	2080	34"	3500	1/2"	1 3/8"	1/2"	53	16 1/2	28 1/2	27	23 1/2	47
EA 1587	15,870	2-1/6	2-1/6	2340	36"	3500	1/2"	1 3/8"	1/2"	53	18 1/4	28 1/2	27	23 1/2	47
EA 1764	17,640	2-1/6	2-1/6	2590	37"	3500	1/2"	1 3/8"	1/2"	53	20	28 1/2	27	23 1/2	47
EA 2115	21,150	2-1/6	2-1/6	2315	34"	4100	1/2"	1 3/8"	1/2"	53	16 1/2	28 1/2	27	23 1/2	47
EA 2380	23,800	2-1/6	2-1/6	2600	36"	4100	1/2"	1 3/8"	1/2"	53	18 1/4	28 1/2	27	23 1/2	47
EA 2645	26,450	2-1/6	2-1/6	2875	37"	4100	1/2"	1 3/8"	1/2"	53	20	28 1/2	27	23 1/2	47
EA 3218	32,180	2-1/4	2-1/4	3500	42"	5500	1/2"	1 5/8"	1/2"	64	20 1/2	28 1/2	27	28 1/2	57
EA 3863	38,630	3-1/6	3-1/6	4180	46"	5500	1/2"	1 5/8"	1/2"	64	24	28 1/2	27	28 1/2	57
EA 4202	42,020	3-1/6	3-1/6	4520	48"	5500	1/2"	1 5/8"	1/2"	64	25 3/4	28 1/2	27	28 1/2	57

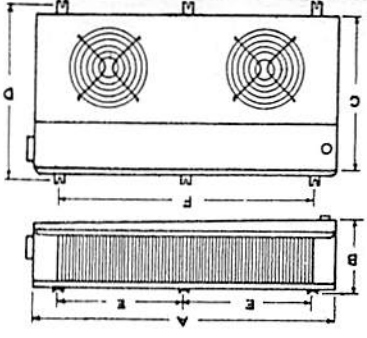
Models EAW-790, EA-827 & larger use external equalizer valve.

NOTE: Specify L.H. or R.H. Drain, determined by facing Air Discharge looking into face of Coil with Hangers up. Motor and Heaters 230 Volt single phase. Install valve on Drain Side. Pitch Drain Tube 45° approx. Use Copper Tubing for drain.

Three phase heaters available upon request.



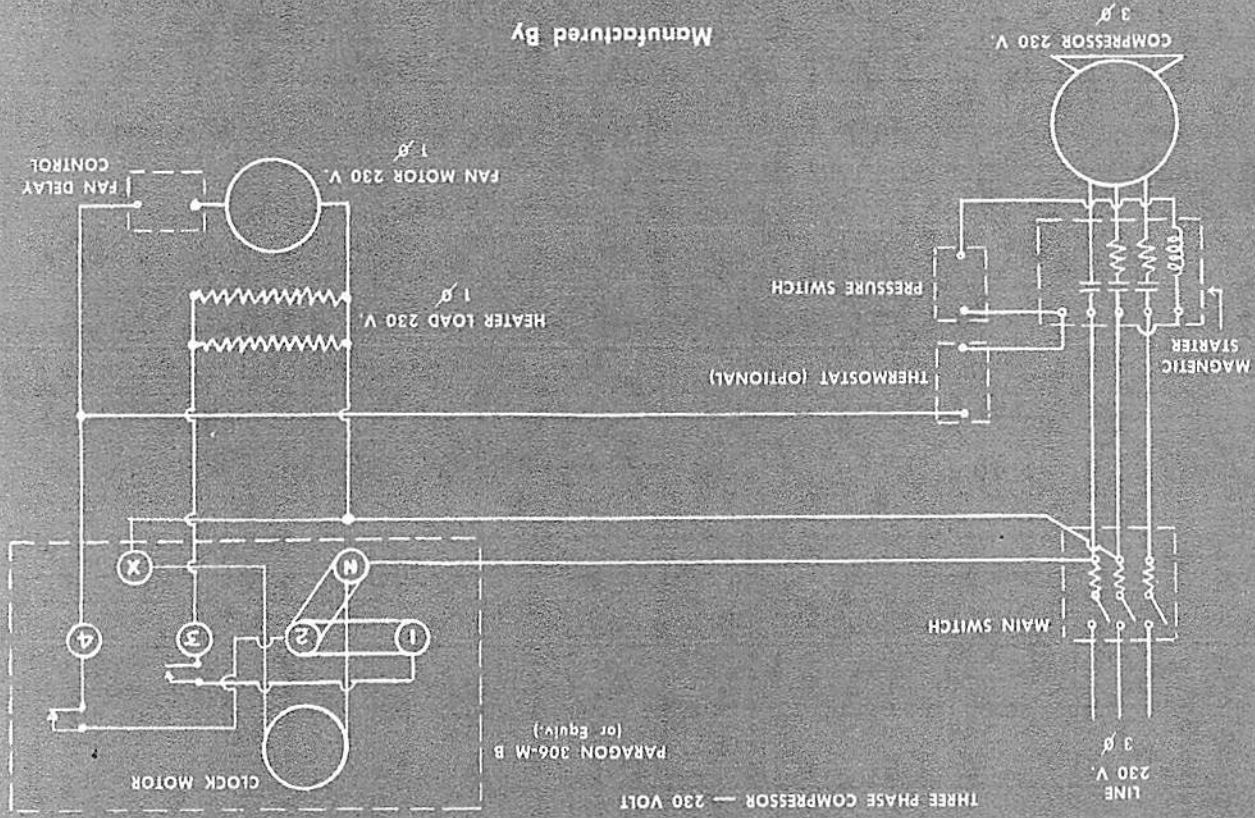
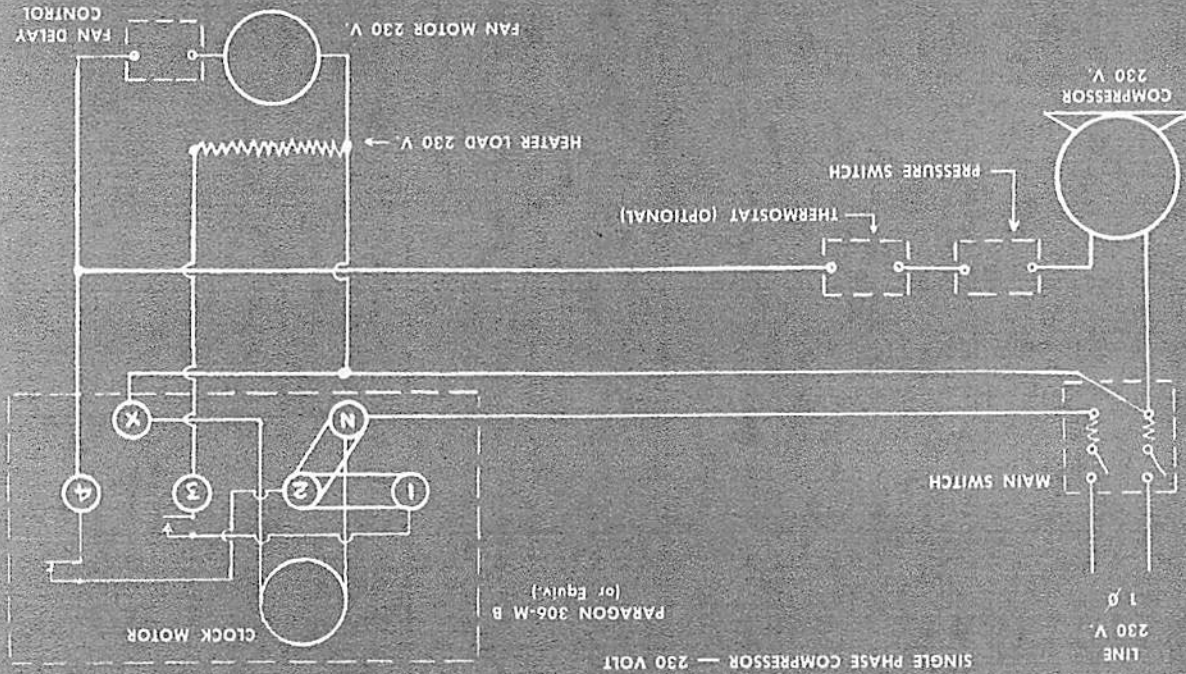
EA & EAW
MODELS



EB & EBW
MODELS

WIRING DIAGRAM

L.R.C. ELECTRIC DEFROST COILS



Manufactured By

L. R. Corporation [Lanpherc]

Manufacturers of Commercial Refrigeration & Air Conditioning Heat Transfer Equipment

FACTORY and OFFICES

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