



## SPECIFICATION SHEET

- **LDLFRONT LOAD ROLL-IN DAIRY MERCHANDISERS** •
- **LDRL REAR LOAD ROLL-IN DAIRY MERCHANDISERS** •

### Refrigeration Data:

MODEL	CASE LENGTH	CASE USAGE	CAPACITY (BTUH / FT)		EVAPORATOR (°F)	UNIT SIZING (°F)	DISCHARGE AIR		AVG. REF. CHARGE (LBS/FT)
			PARALLEL	CONVENTIONAL			TEMPERATURE (°F)	VELOCITY (FPM)	
LDLFR	8'/12'	DAIRY	1,824*	2,084*	+10**	+8	32	500***	1.43****
LDRL	8'/12'	DAIRY	781*†	892*†	+15**	+13	28	520***	1.43****

\* Capacity data listed for cases with 2 rows of T-8 canopy lights and 1 row of T-8 top lights. Adjustments must be made to this base rating for each option installed on this case. ADD 20 BTUH/FT for each row of optional lighted shelves. For sizing all refrigeration equipment other than TYLER, use conventional BTUH values.

\*\* Evaporator temperature is based on the saturated pressure leaving the case.

\*\*\* Air velocity measured 1 hour after defrost at the top discharge air duct using an ALNOR JR. velometer with a scoop.

\*\*\*\* This is an average refrigeration charge per foot based on R22 and R404A refrigerant usage.

† **NOTE: ADD 800 BTUH/FT OF CASE OPENING TO THE NORMAL WALK-IN COOLER LOAD. USE LOW VELOCITY COILS TO BACK UP THE REAR LOAD ROLL-IN CASE FOR CEILING HEIGHTS UNDER 9'. FOR CEILING HEIGHTS OVER 9', USE HIGH VELOCITY FORCED AIR STYLE COILS.**

FOR SPECIFIC COMPRESSOR SIZING INFORMATION, REFER TO TYLER APPLICATIONS FOR RACK SYSTEM COMPRESSORS AND/OR THE COMPRESSOR MANUFACTURERS FOR SINGLE COMPRESSORS. FOR LINE SIZING INFORMATION, REFER TO THE MISCELLANEOUS SECTION "BUFF" IN THE TYLER SPECIFICATION GUIDE.

### Electrical Data:

Fans and Heaters (120 Volt)

MODEL	CASE LENGTH	FANS / CASE	TOTAL STANDARD FANS				TOTAL ECM FANS				TOTAL ANTI-SWEATS	
			AMPS		WATTS		AMPS		WATTS		DISCHARGE AIR	
			UPPER	LOWER	UPPER	LOWER	UPPER	LOWER	UPPER	LOWER	AMPS	WATTS
LDLFR	8'	3	1.59	N/A	144.0	N/A	0.96	N/A	51.0	N/A	0.95	114.0
LDLFR	12'	4	2.12	N/A	192.0	N/A	1.28	N/A	68.0	N/A	1.27	152.0
LDRL	8'	7	1.59	1.36	144.0	120.8	0.96	N/A*	51.0	N/A*	0.95	114.0
LDRL	12'	10	2.12	2.04	192.0	181.2	1.28	N/A*	68.0	N/A*	1.27	152.0

\* ECM fans are not available in the front lower fan panels. These panels will always have standard fans in them.

T-8 Lighting with Electronic Ballasts (120 Volt)

MODEL	CASE LENGTH	CANOPY LIGHTS* (2 ROWS)		TOP LIGHTS* (1 ROWS)		SHELF LIGHTS - PER ROW								MAX. LIGHTING (7 ROWS)	
		AMPS	WATTS	AMPS	WATTS	AMPS				WATTS				AMPS	WATTS
						1	2	3	4	1	2	3	4		
LD(F/R)L	8'	0.95	114.0	0.50	60.0	0.90	1.20	1.60	1.90	108.0	144.0	192.0	228.0	3.35	402.0
LD(F/R)L	12'	1.40	168.0	0.70	84.0	1.35	1.80	2.40	2.85	162.0	216.0	288.0	342.0	4.95	594.0

\* Standard lighting for this case is 2 rows of T-8 canopy lights and 1 row of T-8 top lights.

### Defrost Data:

DEFROST TYPE*	DEFROSTS PER DAY	DURATION TIME (MIN)	TERMINATION (°F)	EPR SETTINGS **		DEFROST WATER (LB / FT / DAY)
				R22 (PSIG)	R404A (PSIG)	
LDLFR -- TIME OFF	4	45	---	43	56	0.7
LDRL -- TIME OFF	4	45	---	37	49	0.7

\* If an Electronic Sensor is used for termination, it should be set at 70°F termination temperature. The sensor must be located in the same location as the defrost termination klixon for that defrost type.

\*\* Set EPR to give this pressure at the case.

**CASE CIRCUITS:** LDLFR case requires three separate 120V circuits: 1) a Fan Circuit, 2) an Anti-Sweat Heater Circuit, and 3) a Shelf & Canopy Light Circuit. LDRL case requires four separate 120V circuits: 1) an Upper Case Fan Circuit, 2) a Lower Case Fan Circuit, 3) an Anti-Sweat Heater Circuit, and 4) a Shelf & Canopy Light Circuit.

The minimum size coils required behind the Roll-In cases are; 8' case use a Model EFA – 130M and for a 12' case use a Model EFA – 190M. Upsize the coils as necessary based on the revised total load and size at a 9°F temperature differential. The case coils and the cooler units coils can be run on separate refrigeration circuits, but both must be defrosted at the same time.

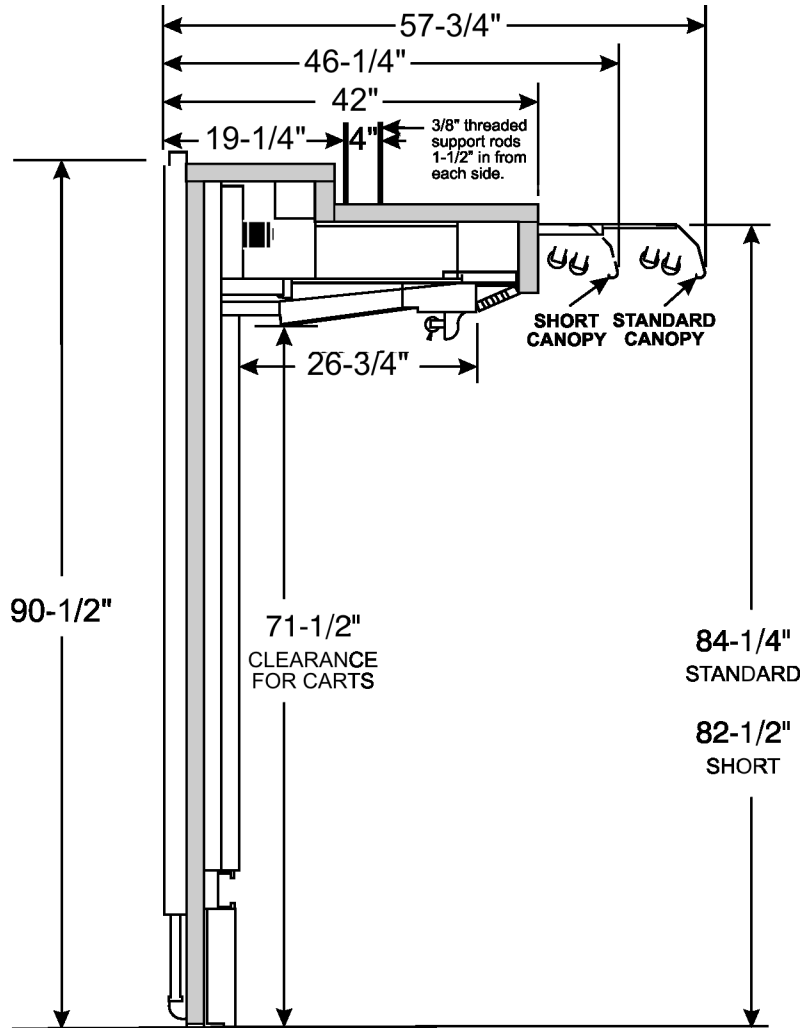
**NOTE:** The cooler and case should be controlled by a Thermostat & Solenoid or EPR. Defrost needs to be at the same time.

**CASE BTUH REQUIREMENTS** are calculated to produce approximately the indicated entering-air temperature with absolute maximum operating ambient limits of **75°F & 55RH**.

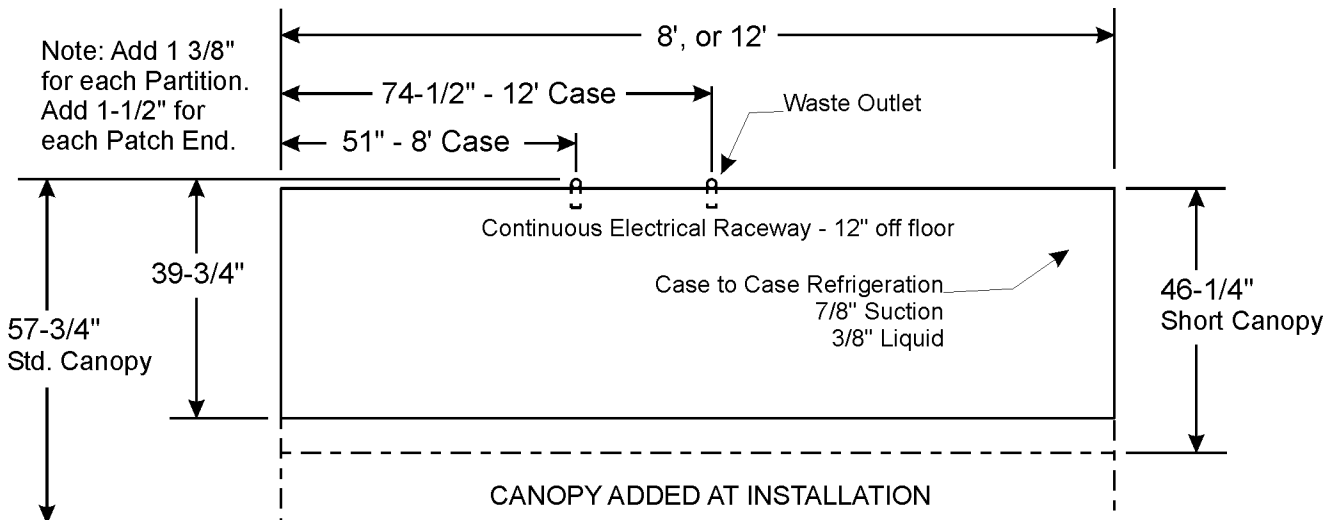
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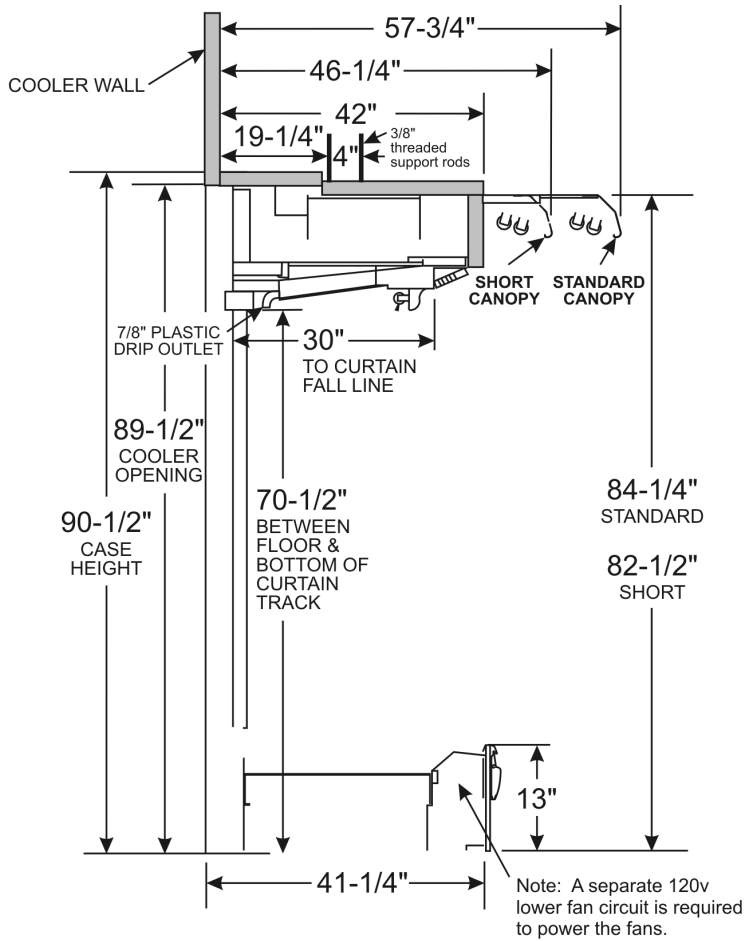
**LDFL CROSS SECTION**



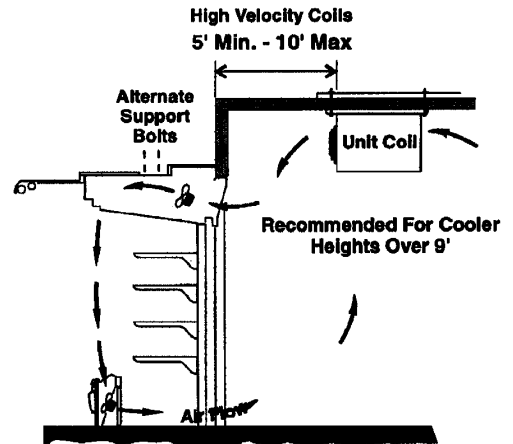
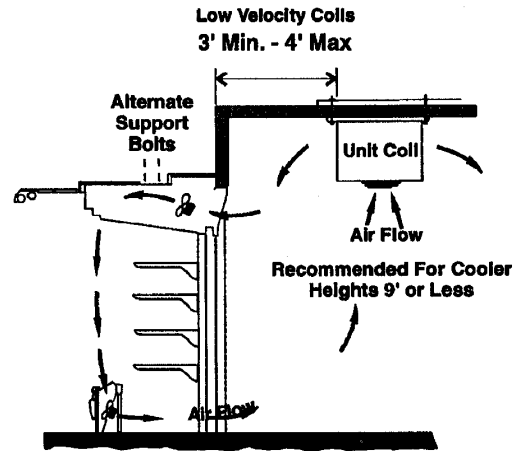
**LDFL FLOOR PLAN**



**LDRL CROSS SECTION**



**COOLER COIL MOUNTING LOCATIONS**



**LDRL FLOOR PLAN**

