# HUSSMANN® Excel

Power

Supply

Defrost Thermostat

Fan. Assembly



LED Canopy

Lights

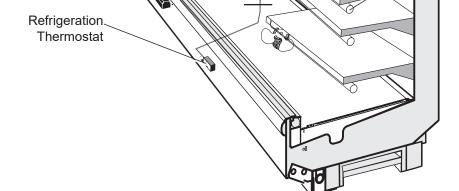
## C6X-LE

**Technical Data Sheet** P/N 0473388\_S **NSF®** Certified

**July 2019** 

**DOE 2017 Energy Efficiency** Compliant

LED Shelf Lights



#### **NSF Certification**

This merchandiser model is manufactured to meet NSF/ANSI (National Sanitation Foundation) Standard #7 requirements for construction, materials and cleanability.



Scan the QR code on your mobile device to access additional product information or order parts.

Parts may also be ordered at:

parts.hussmann.com Call toll free: 1.855.487.7778

We reserve the right to change or revise specifications and product design in connection with any feature of our products. Such changes do not entitle the buyer to corresponding changes, improvements, additions or replacements for equipment previously sold or shipped.

Note: Revision S: July 2019. Updated Lighting and CaseShieldPTM.

Data sheet-Excel-C6X-LE

# Engineering Plan Views

PHYSICAL DATA
Merchandiser Drip Pipe (in.)
Merchandiser Liquid Line (in.)
Merchandiser Suction Line (in.)

7/8

#### Convertible

Dimensions shown as in. and (mm). 09-2005 C6X D 3 in. 8 (203) (77 mm) 41 1/2 43 7/8 41 1/2 **4** <sup>1</sup>/<sub>2</sub> (115) Required (1054)(1114)(1054)Air Gap **4 <sup>1</sup>/**4 (108) 4 3/4 (120) Refrigeration Electrical <sup>26 1</sup>/4 31 <sup>5</sup>/8 42 Outlet Stub Up Area 24 (665)(804)(1064)6 x 6 4 3/4 (120) (612)(152 x 152) 30 1/4 Waste Outlet 33 1/2 (768)(851) Electrical Waste Outlet Field Connections Wireway 26 1/2 -**- 12 ¹/**8 (307) Splashguard (673)

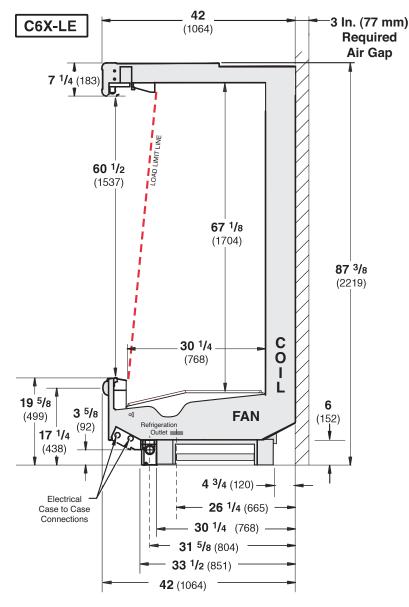
NOTE: Case-to-Case Electrical Connections are made IN FRONT OF SPLASHGUARD.

**FRONT** 

	6 ft	8 ft	12 ft
General			
(A) Case Length (without ends or partitions)	72 3/8 (1838)	96 <sup>3</sup> / <sub>8</sub> (2448)	144 1/2 (3670)
(Each end and insulated partition adds $1^{-1}/2$ in. (38 mm) to case line up.)			
Maximum O/S dimension of case back to front			
(includes bumper)	42 (1064)	42 (1064)	42 (1064)
Back of case to front of splashguard	33 1/2 (851)	33 1/2 (851)	33 1/2 (851)
Back of case to O/S edge of front leg	30 1/4 (768)	30 1/4 (768)	30 1/4 (768)
Distance between edges of external legs and center legs	29 1/2 (750)	41 1/2 (1054)	41 1/2 (1054)
Distance between edges of center legs	NA	NA	43 7/8 (1114)
Distance between front legs and splashguard	2 3/4 (70)	2 3/4 (70)	2 3/4 (70)
Electrical Service (Electrical Field Wiring connection point)			
<b>(B)</b> RH End of case to center of stub up area	60 1/4 (1530)	84 1/4 (2140)	132 3/8 (3363)
Back of case to center of stub up area	24 (612)	24 (612)	24 (612)
Length of electrical wireway Wireway	26 1/2 (673)	26 1/2 (673)	26 1/2 (673)
(C) RH End of case to LH end of wireway	66 1/8 (1680)	90 1/8 (2289)	138 1/4 (3511)
Waste Outlets (One each end)			
(D) RH End of case to the center of LH waste outlet	60 1/4 (1530)	84 1/4 (2140)	132 3/8 (3363)
RH End of case to the center of RH waste outlet	12 1/8 (307)	12 1/8 (307)	12 1/8 (307)
Back O/S of case to center of waste outlets	31 5/8 (804)	31 5/8 (804)	31 5/8 (804)
Schedule 40 PVC drip pipe	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)
Refrigeration Outlet			
Back of case to center of refrigeration outlet	26 1/4 (665)	26 1/4 (665)	26 1/4 (665)
RH end of case to center of refrigeration outlet	8 (203)	8 (203)	8 (203)

DOE 2017 Energy Efficiency Compliant Hussmann refrigerated merchandisers configured for sale for use in the United States meet or surpass the requirements of the DOE 2017 energy efficiency standards.

#### Dimensions shown as in. and (mm).



Estimat	ed Charge **	C	C6X-LE		
6 ft	2.3 lb	37 oz	1.0 kg		
8 ft	3.2 lb	51 oz	1.5 kg		
12 ft	4.5 lb	72 oz	2.0 kg		

<sup>\*\*</sup>This is an average for all refrigerant types. Actual refrigerant charge may vary by approximately half a pound (8 oz/0.2 kg).

# Excel C6X-LE Meat, Produce, Dairy & Delicatessen

#### **REFRIGERATION DATA**

**Note:** This data is based on store temperature and humidity that does not exceed 75°F and 55% R.H.

C6X-LE§	Meat	Produce	Dairy
Discharge Air (°F)	29	31	31
Evaporator (°F)	21	24	24
Unit Sizing (°F)	19	22	22

§ Average evaporator temperature shown. Use dew point for high glide refrigerants for unit sizing. Care should be taken to use the dew point in PT tables for measuring and adjusting superheat. Adjust evaporator pressure as needed to maintain discharge air temperature shown.

Btu/hr/ft	— Unlit S	Shelves ‡			
C6X-LE	Para	ıllel	Conventional		
	4ft/8ft/12ft	6ft/10ft	4ft/8ft/12ft	6ft/10ft	
MEAT	1839	1828	1954	1943	
PRODUCE	1744	1733	1854	1843	
DAIRY	1744	1733	1854	1843	

<sup>‡</sup> Add 10 Btu/hr/ft *per shelf row* for LED fixtures. Add 20 Btu/hr/ft *per shelf row* for fluorescent lamps. Reduce refrigeration load by 15% if fitted with CaseShieldPTM.

#### **DEFROST DATA**

C6X-LE

	COM-LL
Frequency Hr	4
Defrost Water (lb/ft/day)	10.50
(± 15% based on case configuration a	and product

( $\pm$  15% based on case configuration and product loading).

OFFTIME	C6X-LE
Temp Term °F	48
Failsafe Minutes	30

**ELECTRIC OR GAS** Not Recommended

#### **Standard Defrost Thermostat**

Close on rise: close 48°F — open 33°F

#### CONVENTIONAL CONTROLS

### Low Pressure Backup Control

CI/CO*		C6X-LE
Meat	Produce	Dairy
14°F / 4°F	14°F / 4°F	17°F / 7°F

#### **Indoor Unit Only, Pressure Defrost**

**Termination\*** 48°F

\*Use a Temperature Pressure Chart to determine PSIG conversions.

# Excel C6X-LE Meat, Produce, Dairy & Delicatessen

#### **Electrical Data**

Number of Number of				6 ft - 4	8 ft 2 —	12 ft 3			
				Amperes				Watts	
	•		6 ft	8 ft	12 ft		6 ft	8 ft	12 ft
Evaporator	Fan								
120V	50/60Hz	Standard Energy Efficient	0.76	1.20	1.80		56	72	108
230V	50/60Hz	Standard Energy Efficient	0.40	0.60	0.90		56	72	108
230V	60Hz	Export	1.00	1.32	1.98		156	200	300
230V	50Hz	Export	1.12	1.52	2.28		168	228	342
Minimum (	Circuit An	npacity							
120V	50/60Hz	Standard Energy Efficient	0.96	1.40	2.00				
230V	50/60Hz	Standard Energy Efficient	0.60	0.80	1.10				
230V	60Hz	Export	1.20	1.52	2.18				
230V	50Hz	Export	1.32	1.72	2.48				
Maximum	Over Curi	rent Protection 120V	20	20	20				
Maximum	Over Cur	rent Protection 230V	15	15	15				

Only lighting configurations that are compliant with the U.S. Dept. of Energy (DOE) 2017 regulation are available for sale for use in the U.S.A.

		Amperes			Watts	
LED LIGHTING	6ft	8 ft	12 ft	6 ft	8 ft	12 ft
EcoShine ULTRA Canopy Lights						
1 Row EcoShine ULTRA	0.26	0.36	0.54	31	43	64
EcoShine II Canopy Lights						
1 Row EcoShine II	0.26	0.32	0.48	32	39	58
1 Row EcoShine II HO	0.33	0.44	0.66	40	53	79
<b>EcoShine II Shelf Lights</b>						
4 Rows of Shelves	0.47	0.66	0.99	56	79	119
5 Rows of Shelves	0.59	0.82	1.24	71	99	148
6 Rows of Shelves	0.70	0.99	1.48	85	119	178
EcoShine II Rail Light — 1 Row	0.12	0.16	0.25	14	20	30
Standard Lighting (T-8 Fluorescent) 1 Row Canopy Each Row of Canopy, Shelf or Rail Lights	0.51	0.51	0.77	59	59	85
-						

<sup>120</sup>V Lighting Circuit Total = Standard Lighting + Total Optional Lighting + Optional Shelf Lighting

Please note: some combinations of fluorescent lights on this case model may not be compliant with DOE 2017 and may not be available to order in the US and Canada. More lighting options are available with LED lights. The Hussmann Product Configurator will not allow lighting options that do not comply with the DOE 2017 standards.

<sup>120</sup>V LED Lighting Circuit Total = Canopy Lighting + Shelf

<sup>230</sup>V Lighting Circuit Total = Multiply 120V Lighting Circuit Total by 0.52

Excel C6X-LE
Meat, Produce, Dairy &
Delicatessen

#### **Product Data**

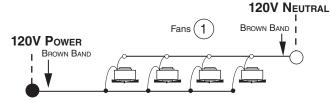
Recommended Usable Cube <sup>1</sup> (Cu Ft/Ft) AHRI Total Display Area <sup>2</sup> (Sq Ft/Ft) Shelf Area <sup>3</sup> (Sq Ft/Ft) 10.12 ft<sup>3</sup>/ft (0.94 m<sup>3</sup>/m) 5.05 ft<sup>2</sup>/ft (1.54 m<sup>2</sup>/m) 11.73 ft<sup>2</sup>/ft (3.58 m<sup>2</sup>/m)

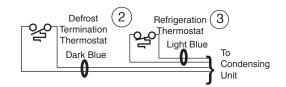
- <sup>2</sup> Computed using AHRI 1200 standard methodology: Total Display Area, ft<sup>2</sup> [m<sup>2</sup>]/Unit of Length, ft [m]
- <sup>3</sup> Shelf surface area is composed of bottom deck plus standard shelf complement, as shown in the Hussmann *Product Reference Guide*. The standard shelf complement for this model is (5) rows of 22-inch shelves.

ESTIMATED SHIPPING WEIGHT 4						
Case				Solid End		
	6 ft	8 ft	12 ft	(each)		
<b>lb</b> (kg)	1000 (454)	1200 (544)	1900 (862)	100 (45)		
<sup>4</sup> Actual weights will vary according to optional kits included.						

Fan Wiring Offtime Defrost







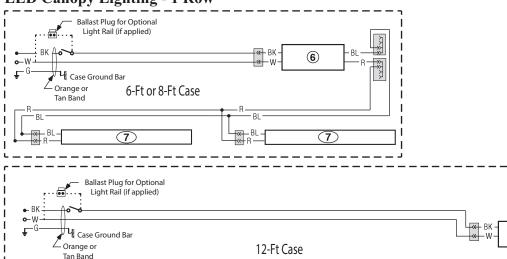


Scan QR code to access Fluorescent Wiring Diagrams on your mobile device

<sup>&</sup>lt;sup>1</sup> AHRI Refrigerated Volume less shelving and other unusable space: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]

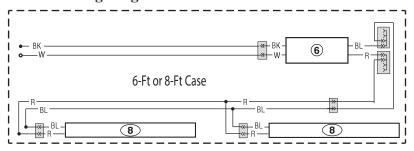
## **LED Canopy and Rail Light Circuits**

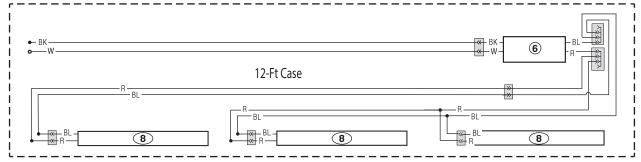
#### **LED Canopy Lighting - 1 Row**



### **LED Rail Lighting - 1 Row**

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#### **WARNING**

All components must have mechanical ground, and the merchandiser must be grounded.

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

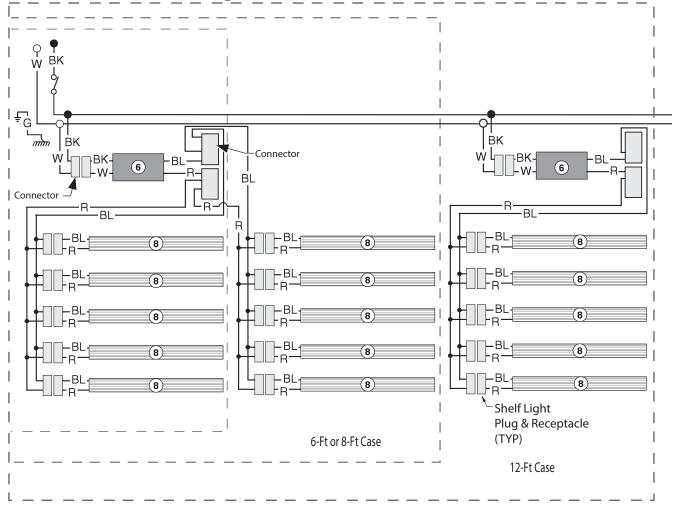
R = Red Y = Yellow G = Green BL = Blue BK = Black W = White

• = 120V Power  $\bigcirc$  = 120V Neutral  $\frac{1}{7}$  = Field Ground  $\stackrel{\text{min}}{\text{min}}$  = Case Ground

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# Optional Shelf Lighting LED Fixtures

## Shelf Harness and LED Light Circuits for 4 or 5 Rows of Shelves



#### WARNING

All components must have mechanical ground, and the merchandiser must be grounded.

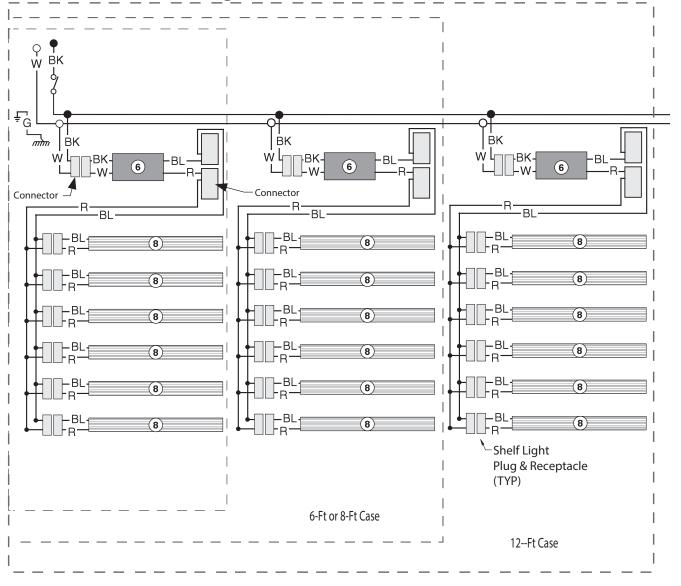
 ${\sf CIRCLED\ NUMBERS} = {\sf PARTS\ LIST\ ITEM\ NUMBERS}$ 

$$R = Red$$
  $G = Green$   $BL = Blue$   $BK = Black$   $W = White$ 

• = 80V Power 
$$\bigcirc$$
 = 80V Neutral  $\frac{1}{7}$  = Field Ground  $\overrightarrow{mm}$  = Case Ground

# Optional Shelf Lighting LED Fixtures

### Shelf Harness and LED Light Circuits for 6 Rows of Shelves



#### WARNING

All components must have mechanical ground, and the merchandiser must be grounded.

CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

R = Red G = Green BL = Blue BK = Black W = White

• = 80V Power  $\bigcirc$  = 80V Neutral  $\frac{1}{7}$  = Field Ground  $\frac{1}{100}$  = Case Ground