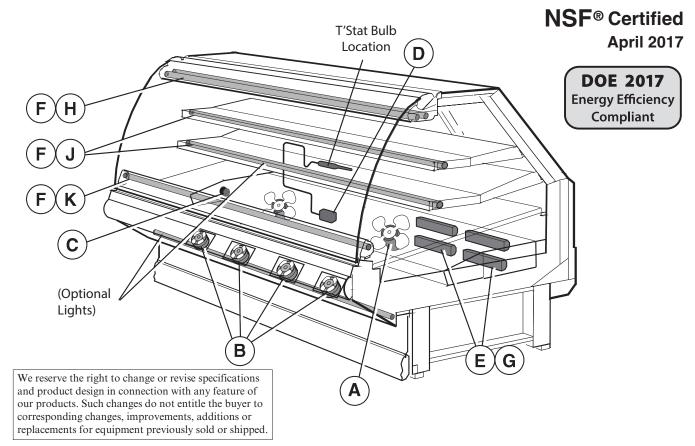
HUSSMANN[®] *Excel*



SMB

Technical Data Sheet

P/N 0522397_E



Item	Part #	Description	Wiring I	tem#	Item	Part #	Description	Wiring Item #
FAN AS	SEMBLIES AND	THERMOSTATS			E.	Electronic	Ballast (Continued)	(5)
A.	0392457	Fan Motor, Evapo	rator - 120V	(1)		0440215	2 lamps 230V 50-60 Hz	
	0409512	Fan Blade - 120V (0428652	3 lamps 230V 50-60 Hz	
		embossing towar	rd motor			0385104	Ballast Transformer	
	0436517	Fan Motor, Evapo	orator - 230V				230V 50-60 Hz, per ba	ıllast
	0409513	Fan Blade - 230V			F.		Fluorescent Lamp	(6)
		embossing towar	rd motor				Replace with like fixtu	res
B.	0522287	Fan Motor, Ambie	ent - 120V	(2)				
	0404552	Fan Motor, Ambie	ent - 230V		LED 1	FIXTURES AND	POWER SUPPLY	
C.	0382028	Standard Non-adji	ustable	(3)	G.	0501213	Power Supply	(7)
		Defrost Thermo	stat		H.		LED Canopy Fixture	(8)
D.	0137880	Optional Adjustab	le	(4)			Replace with like fixture.	5
		Refrigeration Th	nermostat		J.		LED Shelf Fixture	(9)
		· ·					Replace with like fixture.	
LAMPS	AND BALLASTS	S			K.		LED Rail Fixture	(10)
E.	Electronic I	Ballast		(5)			Replace with like fixture.	5
	0355716	2 lamps 120V					-	
	0355398	3 lamps 120V						

Data sheet-Excel-SMB

Note: Revision E: April 2017. Updated LED energy values. Other changes marked with a bar, circle or underline.

Engineering

Plan Views

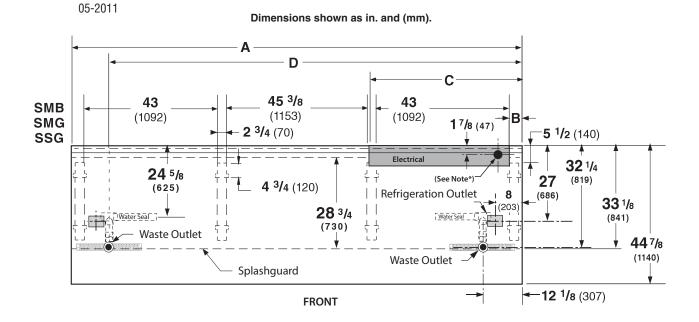
Meat & Delicatessen

PHYSICAL DATA

Merchandiser Drip Pipe (in.) Merchandiser Liquid Line (in.) 1 ¹/₂ 3/₈

Merchandiser Suction Line (in.)

5/8



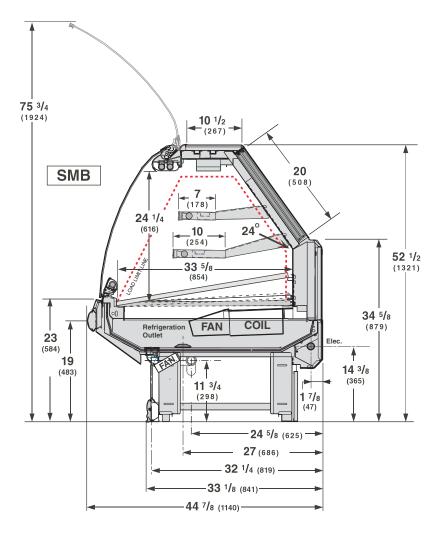
		4 ft	6 ft	8 ft	12 ft
Gene	ral				
(A)	Case Length	48 1/4 (1226)	72 1/4 (1835)	96 3/8 (2448)	144 1/2 (3670)
	Maximum O/S dimension of case back to front (Note: Includes bumper)	44 7/8 (1140)	44 7/8 (1140)	44 7/8 (1140)	44 7/8 (1140)
	Back of case to front of splashguard	33 1/8 (841)	33 1/8 (841)	33 1/8 (841)	33 1/8 (841)
	Center of rear legs to center of front legs	23 1/2 (598)	23 1/2 (598)	23 1/2 (598)	23 1/2 (598)
Each	End and Partition adds 1 1 /2 in. (38 mm) to the length	` /	` ′	, ,	,
Elect	rical Service				
(B)	RH end of case to Electrical raceway right edge	3 7/8 (98)	3 7/8 (98)	3 7/8 (98)	3 7/8 (98)
(C)	RH end of case to Electrical raceway left edge	41 3/8 (1051)	32 3/4 (831)	40 1/8 (1019)	44 1/2 (1131)
	Back of case to center of knockout	1 7/8 (47)	1 7/8 (47)	1 7/8 (47)	1 7/8 (47)
* Ele	ctrical Field Wiring Connection Point	, ,	` '		` ′
Wast	e Outlet				
(D)	RH End of case to the center of LH waste outlet	36 1/4 (921)	60 1/4 (1530)	84 3/8 (2143)	132 1/2 (3366)
. ,	RH End of case to the center of RH waste outlet	12 1/8 (307)	12 1/8 (307)	12 1/8 (307)	12 1/8 (307)
	Back O/S of case to center of waste outlets	32 1/4 (819)	32 1/4 (819)	32 1/4 (819)	32 1/4 (819)
	Schedule 40 PVC drip pipe	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)
** Fi	eld installed water seal outlets, tees, and connectors	are shipped w	ith the mercha	ndiser.	
Refri	geration Outlet				
	Back of case to center of refrigeration outlet	27 (686)	27 (686)	27 (686)	27 (686)
	RH end of case to center of refrigeration outlet	8 (203)	8 (203)	8 (203)	8 (203)
	Outside diameter of the liquid line	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
	Outside diameter of the suction line	5/8 (16)	5/8 (16)	5/8 (16)	5/8 (16)

Double Curved Hinged Glass, 3 Display Level



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).



PHYSICAL DATA

Estimated Charge (lb)**

4 ft	0.75 lb	12 oz	0.35 kg
6 ft	1.0 lb	16 oz	0.5 kg
8 ft	1.5 lb	24 oz	0.7 kg
12 ft	2.0 lb	32 oz	0.9 kg

**This is an average for all refrigerant types. Actual refrigerant charge may vary by approximately 0.5 lb (8 oz / 0.2 kg).

Length Added to Lineup by:

Each Plastic End w/ Bumper (in.) $3 \frac{1}{2}$ **Each End/Partition (in.)** $1 \frac{1}{2}$

NSF Certification

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

Excel SMB Meat & Delicatessen

REFRIGERATION DATA

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

	SMB§
Discharge Air (°F)	24
Evaporator (°F)	18
Unit Sizing (°F)	16
§ Average evaporator temper	

§ 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.

Btulhrlft	SMB
Parallel	420
Conventional	450

DEFROST DATA

SMB

Frequency (hr)	12
Defrost Water (lb/ft/day)	0.20
(± 15% based on case configur	ration and
product loading).	

OFFTIME	SMB
Temp Term (°F)	43°
Failsafe (minutes)	90

ELECTRIC OR GAS Not Recommended

Standard Defrost Thermostat

Close on rise: close 43°F — open 33°F

CONVENTIONAL CONTROLS

Low Pressure Backup Control

SMB

CI/CO (Temp °F)* 11°F/1°F Indoor Unit Only, Pressure Defrost Termination (Temp °F)*

Not Recommended

*Use a Temperature Pressure Chart to determine PSIG conversions.

Excel **SMB**Meat & Delicatessen

Electrical Data

Number of Fans Refrigeration (120V 60Hz) – 4W	4 ft 1	6 ft 2	8 ft 2	12 ft 3				
Ambient Air Wipe – 4.5W	2	4	4	6				
Export Refrigeration (230V 50Hz) – 4W	1	2	2	3				
Export Ambient Air Wipe – 15W	2	4	4	6				
		Amı	oeres			Wa	atts	
Merchandiser	4 ft	6 ft	8 ft	12 ft	4 ft	6 ft	8 ft	12 ft
Evaporator Fans								
Standard (120V 60Hz)	0.31	0.62	0.62	0.93	24	48	48	72
Export: 230V 50Hz	0.18	0.36	0.36	0.54	27	54	54	81
Ambient Air Wipe Fans	0.0	0.4	0.4	0.6	0	10	1.0	25
Standard High Efficiency (120V 60Hz)	0.2	0.4	0.4	0.6	9	18	18	27
Export: 230V 50Hz	0.3	0.6	0.6	0.9	50	100	100	150
Constant On Anti-sweat Heaters	NA	NA	NA	NA	NA	NA	NA	NA
Cycling Anti-sweat Heaters	NA	NA	NA	NA	NA	NA	NA	NA
Minimum Circuit Ampacity								
With Standard Fans (120V 60Hz)	0.64	1.28	1.28	1.91				
With Export Fans (230V 50Hz)	0.6	1.2	1.2	1.83				
Maximum Over Current Protection 120V	20	20	20	20				
Electric Defrost Heaters (208V)	NA	NA	NA	NA	NA	NA	NA	NA
Gas Defrost Heaters (208V)	NA	NA	NA	NA	NA	NA	NA	NA
ONLY LIGHTING CONFIGURATIONS THAT ARE COMPLUSE IN THE U.S.A.	ANT WITH	THE U.S. D	EPT. OF EN	NERGY (DOE)	2017 REGULAT	ION ARE AV	AILABLE F	OR SALE FOR
Standard Lighting (T8 Fluorescent)	4 ft	6 ft	8 ft	12 ft	4 ft	6 ft	8 ft	12 ft
2 Row Canopy	0.49	0.80	0.98	1.42	58	92	116	170
1 Row Rail	0.26	0.40	0.49	0.71	30	46	59	85
Optional Lighting (T8 Fluorescent)	0.26	0.40	0.40	0.71	20	4.6	50	0.5
1 Row Ledge	0.26	0.40	0.49	0.71	30	46	59	85
2 Row Shelves	0.49	0.80	0.98	1.42	58	92	116	170
Ecoshine II								
Canopy 2 Row Front	0.16	0.23	0.33	0.49	19.8	28.2	39.5	59.3
Canopy 2 Row Front HO	0.28	0.39	0.56	0.84	33.4	46.4	66.8	100.2
1 Row Rail	0.08	0.12	0.16	0.25	9.9	14.1	19.8	29.7
1 Row of Shelves	0.08	0.12	0.16	0.25	9.9	14.1	19.8	29.7
2 Row of Shelves	0.16	0.23	0.33	0.49	19.8	28.2	39.5	59.3

115V Lighting Circuit Total = Standard Lighting + Total Optional Lighting + Optional Shelf Lighting 120V LED Lighting Circuit Total = Canopy Lighting + Shelf Lighting + Rail Lighting 230V Lighting Circuit Total = Multiply 115V Lighting Circuit Total by 0.52

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.

Excel SMB Meat & Delicatessen

Product Data

 Recommended Usable Cube ¹ (Cu FtlFt)
 2.61 ft³/ft (0.24 m³/m)

 AHRI Total Display Area ² (Sq FtlFt)
 3.34 ft²/ft (1.02 m²/m)

 Shelf Area ³ (Sq FtlFt)
 4.22 ft²/ft (1.29 m²/m)

³ 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 one 7-inch shelf and one 10-inch shelf.

						Glass /	
Case					Solid End	Plastic End	
	4 ft	6 ft	8 ft	12 ft	(each)	(each)	
lb (kg)	700 (318)	800 (363)	900 (408)	1300 (590)	70 (32)	100 (45)	

¹ AHRI Refrigerated Volume less shelving and other unusable space: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]

² Computed using AHRI 1200 standard methodology: Total Display Area, ft² [m²]/Unit of Length, ft [m]

Fan Wiring Offtime Defrost

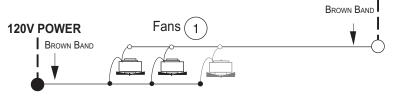
4 ft case has 1 Fan 6 ft case has 2 Fans 8 ft case has 2 fans

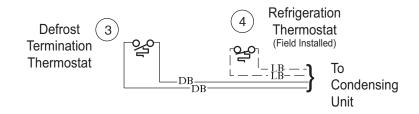
12 ft case has 3 Fans

Fans

120V NEUTRAL

120V NEUTRAL

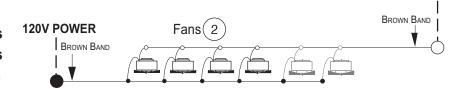




Ambient Fan Wiring Glass Air Wipe

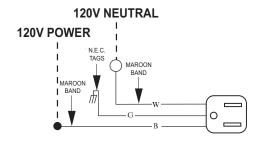
4 ft case has 2 Fans 6 ft case has 3 Fans 8 ft case has 4 fans 12 ft case has 6 Fans

Fans



Receptacles

Electric Service Receptacle



WARNING

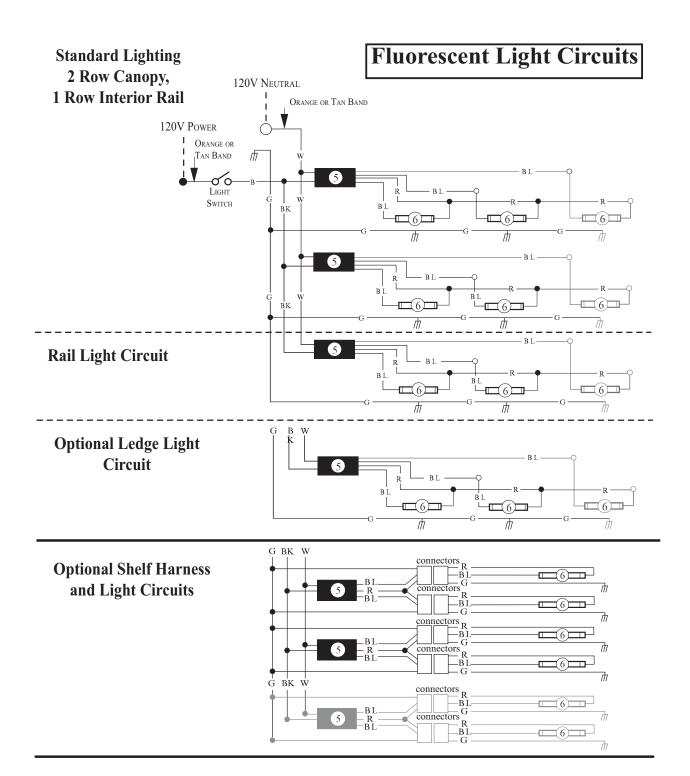
All components must have mechanical ground, and the merchandiser must be grounded.

Circled numbers = Parts List Item Numbers

Grayed components in 12 foot models only.

R = Red G = Green BL = Blue LB = Light Blue DB = Dark Blue BK = Black

• = 120V Power \bigcirc = 120V Neutral $\stackrel{\bot}{=}$ = Field Ground $\stackrel{\bot}{\parallel}$ = Case Ground



WARNING

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

Circled numbers = Parts List Item Numbers

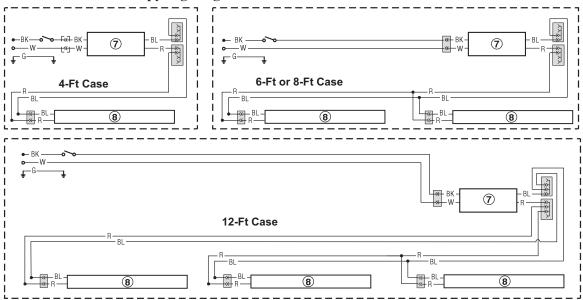
Grayed components in 12 foot models only.

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

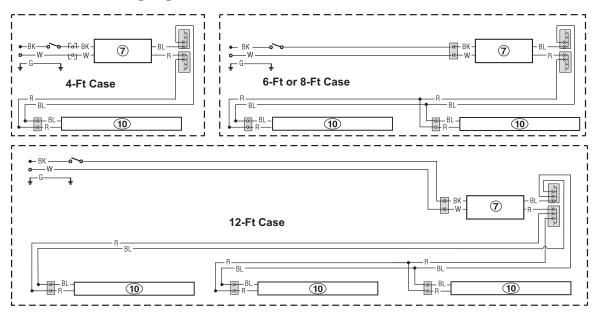
• = 120V Power
$$\bigcirc$$
 = 120V Neutral $\frac{\bot}{\equiv}$ = Field Ground $\frac{\bot}{\equiv}$ = Case Ground

Optional LED Lighting

EcoShine II LED Canopy Lighting - 1 Row



EcoShine II LED Rail Lighting - 1 Row



WARNING

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

Circled numbers = Parts List Item Numbers

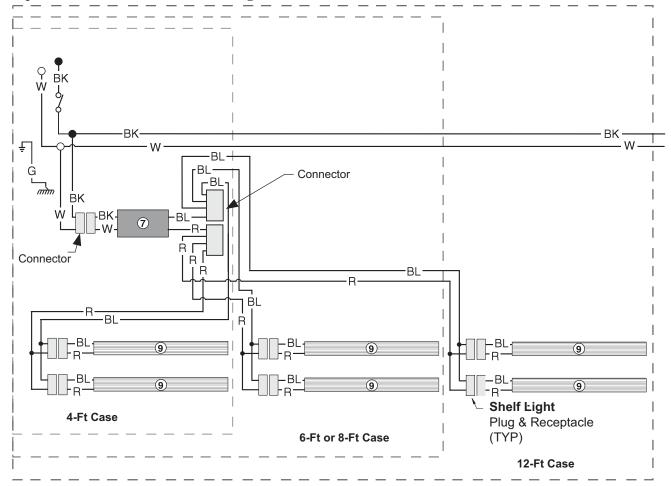
Grayed components in 12 foot models only.

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

• = 120V Power
$$\bigcirc$$
 = 120V Neutral $\frac{\perp}{\equiv}$ = Field Ground $\frac{\perp}{\parallel}$ = Case Ground

Optional LED Lighting

Optional Shelf Harness and LED Light Circuits for Two Rows of Shelves



WARNING

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

Circled numbers = Parts List Item Numbers

Grayed components in 12 foot models only.

• = 120V Power
$$\bigcirc$$
 = 120V Neutral $\frac{\perp}{\equiv}$ = Field Ground $\frac{\perp}{\equiv}$ = Case Ground