HUSSMANN

Insight® IC3BL

Dairy / Delicatessen / Meat

Merchandiser Data Sheet

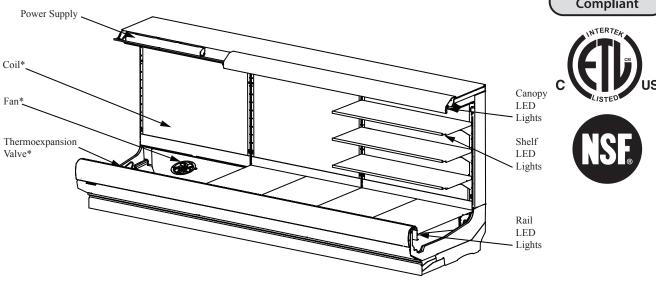
P/N 0553185_G

NSF® Certified

January 2023

Insight standard field electrical connections are at the bottom of the merchandiser

DOE 2017
Energy Efficiency
Compliant



*Coils, fans and TXVs are modular with one per 3 or 4 foot section.

Portion of parts removed for clarity.

12 foot merchandiser shown.

NSF Certification

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

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Data sheet-Insight IC3BL

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.

Insight IC3BL Dairy / Delicatessen/ Meat

Refrigeration Data¹

	IC3BL	Optimal Shelf Life			Energy Comparison
	Application	Reverage/		NSF Type 2 Ambient⁴	AHRI 1200 Rating Point ⁵
	Discharge Air °F (°C)	32 (0)	31 (-0.55)	30 (-1.11)	34 (1.11)
Unlit Shelves	Average Evaporator °F (°C) ²	28 (-2.22)	27 (-2.77)	26 (-3.33)	31 (-0.55)
	Parallel Btu/hr/ft (Watts/m) ⁶	905 (870)	840 (808)	1100 (1058)	795 (764)
	Conventional Btu/hr/ft (Watts/m) ⁶	975 (938)	905 (870)	1185 (1140)	855 (822)
	Discharge Air °F (°C)	31 (-0.55)	30 (-1.11)	29 (-1.66)	34 (1.11)
Lit	Average Evaporator °F (°C) ²	27 (-2.77)	26 (-3.33)	25 (-3.88)	30 (-1.11)
Shelves	Parallel Btu/hr/ft (Watts/m) 6,7	910 (875)	845 (813)	1110 (1067)	800 (769)
	Conventional Btu/hr/ft (Watts/m) 6,7	980 (942)	910 (875)	1195 (1149)	860 (827)
Fan Spaced8	IC3BL6 (8.25")	1200 ⁸	1200 ⁸	14008	1200 ⁸
Fan Speed ⁸	IC3BL4, 8, 12 (8.25")	1200 ⁸	1200 ⁸	1400 ⁸	1200 ⁸

Notes:

- 1. All data based on store temperature and humidity that does not exceed NSF Type 1 ambient conditions of 75°F and 55% relative humidity except where
- 2. 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.
- 3. For DX CO2 applications the average evaporator temperature may be lowered by 2°F but not more than 5°F. An EPR valve should be used if the system suction temperature is more than 5 degrees below the published case evaporator temperature. A 31°F flash tank temperature with a 24°F evaporator temperature is used when sizing default EEV selections to provide a minimum pressure drop across the valve of approximately 50 psig. For operating conditions that provide a pressure drop across the valve above 65 psig or below 35 psig, the electronic expansion valve size should be determined using the valve vendor sizing program and selected from the pull down list in the Hussmann Product Configurator (HPC).
- Data for operation in NSF Type 2 ambient of 80°F and 55% relative humidity.
- AHRI 1200 Rating Point for energy consumption comparison only.
 Subtract 120 Btu/hr/ft (115.4 Watts/m) for front glass (on applicable models).
- Add 10 Btu/hr/ft (9.6 Watts/m) per shelf row for LED shelf light fixtures.
- 8. Some lengths and/or applications require optional fan speed control kits applied by the Hussmann Product Configurator

Defrost Data

Frequency (hours between defrost) Defrost Water 9 6.3 lb/ft/day (9.4 kg/m)

9 (± 15% based on case configuration and product loading).

IC3BL **O**FFTIME Time (minutes) 20

ELECTRIC OR GAS Not Available

Conventional Controls

Low Pressure Backup Control CI/CO 10

20°F /10°F -6.7°C / -12.2°C

Indoor Unit Only, Pressure Defrost Termination 10

48°F (8.9°C)

¹⁰ Use a Temperature Pressure Chart to determine PSIG conversions.

Estim	IC3BL		
4 ft	0.6 lb	9.6 oz	0.3 kg
6 ft	1.1 lb	17.6 oz	0.5 kg
8 ft	1.5 lb	24 oz	0.7 kg
12 ft	2.9 lb	46.4 oz	1.3 kg

¹¹ This is an average for all refrigerant types. Actual refrigerant charge may vary by approximately half a pound.

Product Data

Gross Refrigerated Volume 12 (Cu Ft/Ft) 6.0 ft³/ft (0.56 m³/m) AHRI Total Display Area 13 (Sq Ft/Ft) 3.5 ft2 /ft (1.07 m2/m) Shelf Area 14 (Sq Ft/Ft) 6.84 ft² /ft (2.08 m²/m)

- ¹² AHRI Gross Refrigerated Volume: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]
- 13 Computed using AHRI 1200 standard methodology: Total Display Area, ft² [m²]/Unit of Length, ft [m]
- 14 Shelf surface area is composed of bottom deck plus standard shelf complement for this model: (3) rows of shelves: 12-in., 16-in., 20-in.

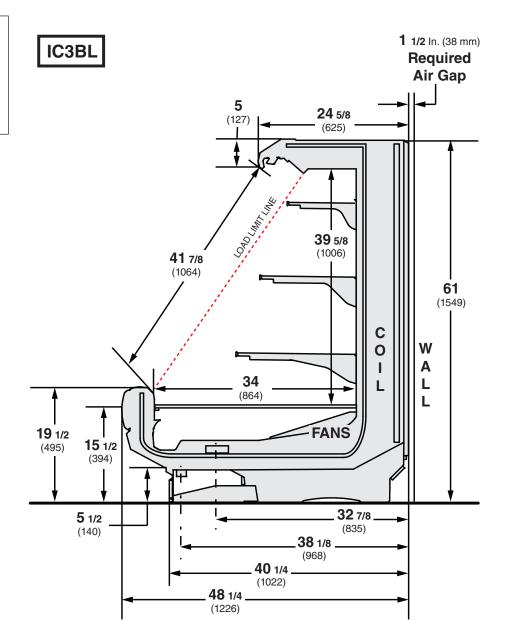
DOE 2017
Energy Efficiency
Compliant

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

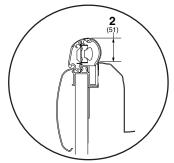
Dimensions shown as in. and (mm).

Shelf complement shown as tested:

Three rows of shelves (12-in., 16-in., 20-in.) spaced equally between bottom display pan and interior top panel.

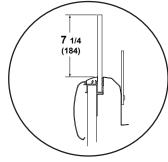


OPTIONAL RAIL LIGHT



Rail light cannot be used with glass front option.

OPTIONAL GLASS FRONT



Glass front cannot be used with rail light option.

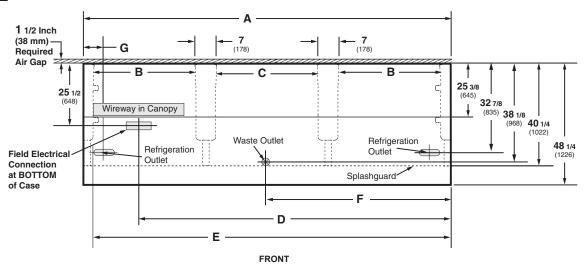
NSF Certification

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

Engineering Plan View

IC3BL

Dimensions shown as in. and (mm).



(12 Foot Model shown above)

		4 ft	6 ft	8 ft	12 ft
Gene	ral				
(A)	Case Length (without ends or partitions) (Each end and insulated partition adds $1^{1/2}$ in. (38 mm) to case line up.)	48 1/8 (1222)	72 1/4 (1835)	96 1/4 (2445)	144 3/8 (3668)
	$Maximum\ O/S\ dimension\ of\ case\ back\ to\ front\ (includes\ bumper)$	48 3/8 (1229)	48 3/8 (1229)	48 3/8 (1229)	48 3/8 (1229)
	Back of case to front of splashguard	40 3/8 (1026)	40 3/8 (1026)	40 3/8 (1026)	40 3/8 (1026)
(B)	Distance between edges of external legs and center legs	NA	29 (737)	41 (1041)	41 (1041)
(C)	Distance between edges of center legs	41 1/8 (1045)	NA	NA	41 1/8 (1045)
	Distance between front legs and splashguard	12 (305)	12 (305)	12 (305)	12 (305)
Elect	rical Service (Field Electrical Wiring Connection)				
(D)	RH End of case to center of Field Electrical Wiring Connection (bottom of case)	30 3/8 (772)	54 1/2 (1384)	78 1/2 (1994)	126 5/8 (3216)
	Back of case to center of Field Electrical Wiring Connection	25 1/2 (648)	25 1/2 (648)	25 1/2 (648)	25 1/2 (648)
	Length of electrical wireway (canopy)	32 3/8 (822)	22 1/2 (572)	32 3/8 (822)	32 3/8 (822)
(E)	RH end of case to LH end of electrical wireway (canopy)	44 1/8 (1121)	68 1/4 (1734)	92 1/4 (2343)	140 1/2 (3569)
Wast	e Outlets				
(F)	RH End of case to the center of waste outlet	24 1/8 (613)	24 1/8 (613)	24 1/8 (613)	72 1/4 (1835)
	Back O/S of case to center of waste outlet(s)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)	37 3/8 (950)
	Schedule 40 PVC drip pipe	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)
Refri	geration Outlet				
(G)	Back of case to center of refrigeration outlet	32 7/8 (835)	32 7/8 (835)	32 7/8 (835)	32 7/8 (835)
	End of case to center of refrigeration outlet	8 1/2 (216)	8 1/2 (216)	8 1/2 (216)	8 1/2 (216)

Electrical Data

Number 8.25-in			4 ft 1	6 ft 2	8 ft 2	12 ft 3				
				Ampere	S			Watts		
Evapora	tor Fan		4 ft	6 ft	8 ft	12 ft	4 ft	6 ft	8 ft	12 ft
120V	60Hz	Energy Efficient	0.25	0.50	0.50	0.75	16	32	32	48
230V	50/60Hz	Energy Efficient	0.13	0.26	0.26	0.39	16	32	32	48
Minimun	n Circuit A	ampacity								
120V	60Hz	Energy Efficient	0.45	0.70	0.70	0.95				
230V	50/60Hz	Energy Efficient	0.33	0.46	0.46	0.59				
Maximur	m Over Cu	rrent Protection								
120V			20	20	20	20				
230V			15	15	15	15				

Lighting

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				
	4 ft	6 ft	8 ft	12 ft	4 ft	6 ft	8 ft	12 ft
STANDARD LIGHTING								
EcoShine II Canopy								
1 Row EcoShine II	0.16	0.26	0.32	0.48	19.3	31.6	38.6	58.0
OPTIONAL LIGHTING								
EcoShine II Canopy								
1 Row EcoShine II HO	0.22	0.33	0.44	0.66	26.5	39.5	53.0	79.4
EcoShine II Shelf								
1 Row of Shelves	0.08	0.12	0.16	0.25	9.9	14.1	19.8	29.7
2 Rows of Shelves	0.16	0.23	0.33	0.49	19.8	28.2	39.5	59.3
3 Rows of Shelves	0.25	0.35	0.49	0.74	29.7	42.3	59.3	89.0
4 Rows of Shelves	0.33	0.47	0.66	0.99	39.5	56.4	79.1	118.6
EcoShine II Rail Light								
1 Row	0.08	0.12	0.16	0.25	9.9	14.1	19.8	29.7

120V Lighting Circuit Total = Standard Lighting + Total Optional Lighting + Optional Shelf Lighting 230V Lighting Circuit Total = Multiply 120V Lighting Circuit Total by 0.52

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ENDS or PARTITIONS

Each standard end and each insulated partition adds 1 $^{1}/_{2}$ in. (38 mm) to case line up. Optional view end with end bumper adds 3 $^{3}/_{4}$ in. (95 mm).

PHI SICAL DATA	
Merchandiser Drip Pipe (in.)	1 1/4
Schedule 40 PVC	
Manada and Baran Libraria Libraria (bara)	31

Merchandiser Liquid Line (in.) 3/8 Merchandiser Suction Line (in.) 5/8

ESTIMATED SHIPPING WEIGHT †

Case					Solid End
	4 ft	6 ft	8 ft	12 ft	(each)
lb (kg)	600 (272)	800 (363)	950 (431)	1100 (499)	75 (34)

† Actual weights will vary according to optional kits included.

Shelf Options

Approved shelf sizes for standard (horizontal, 2-3 position brackets) displays:

12-inch

14-inch

16-inch

18-inch

20-inch

Contact engineering for non-standard (4 position brackets or other) display recommendations.

Minimum number of Shelves: 2

Optimal number of Shelves: 3

Maximum number of Shelves: 4

Maximum number of Lighted Shelves: 4

Standard shelf complement for test purposes: (3) rows of shelves (12-in., 16-in., 20-in.) evenly distributed vertically.

Replacement Parts List

Part #	Description	Part #	Description
F A		Cauc	
FAN ASSEMBLIES		Coils	
Standard HE Fan	Assembly	0534323	4 ft, 8 ft, 12 ft
4 Ft, 6 Ft, 8 Ft & 1	2 Ft	0534222	6 ft only
0535563	8.25-in. Fan Assembly		
0534013	Fan Speed Controller	HONEYCOMB - WHITE	
		0538222	4 ft, 8 ft, 12 ft
FAN SPEED KEY		0538221	6 ft only
0534355	1200 RPM		
0534359	1400 RPM	THERMO-EXPANSION V	ALVE
		Pre-set Adjus	stable
THERMOSTATS		Varies with R	efrigerant and Size
O PTIONAL			

LED FIXTURES AND POWER SUPPLY

0501213 Power Supply

LED Canopy Fixture

Replace with like fixtures.

LED Shelf Fixture

Replace with like fixtures.

LED Rail Fixture

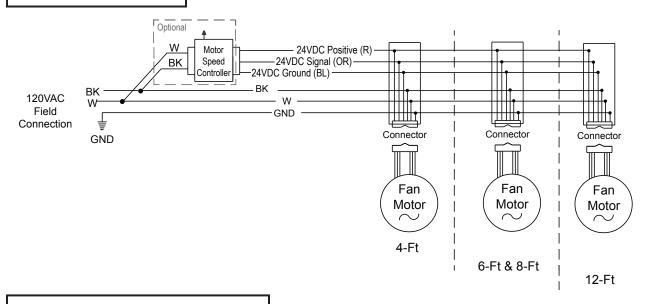
Replace with like fixtures.

NOTE: For LED lighting parts contact your Hussmann service representative at 1-800-922-1919. Please have your model and serial number available. Descriptions including size and color are at http://www.hussmann.com/en/Products/LED-Lighting/Pages/Default.aspx.

FOR ADDITIONAL PARTS INFORMATION, VISIT HTTP://www.huss-mann.com/en/Pages/Aftermarket-Parts.aspx

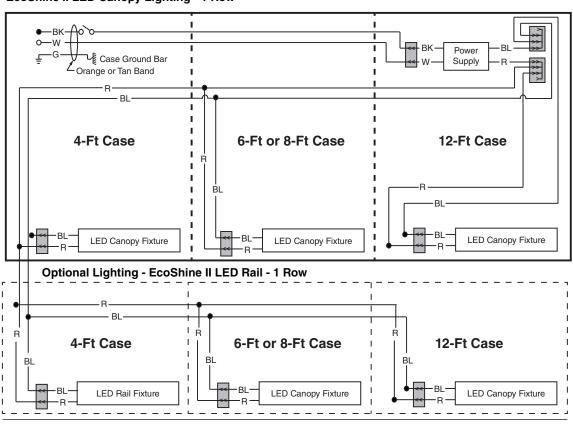
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Fan Wiring Offtime Defrost



LED Canopy Light Circuits

EcoShine II LED Canopy Lighting - 1 Row



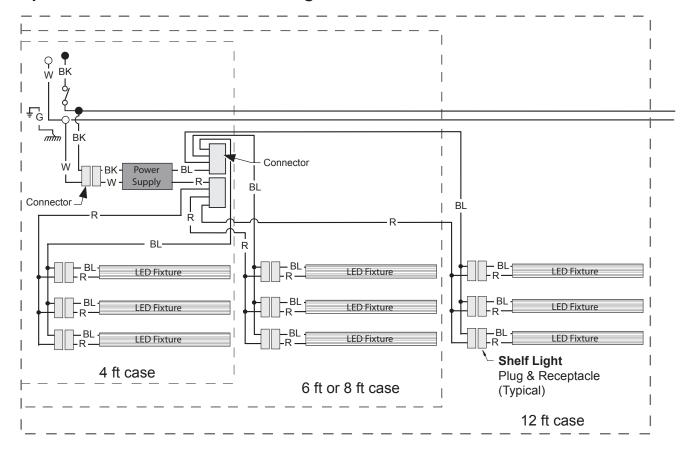
WARNING

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

R = Red Y = Yellow G = Green BL = Blue BK = Black W = White
$$= 120V \text{ Power}$$
 $\bigcirc = 120V \text{ Neutral}$ $= FIELD GROUND$ $\overrightarrow{mm} = Case GROUND$

Optional LED Shelf Lighting

Optional Shelf Harness and LED Light Circuits for 2 or 3 Rows of Shelves

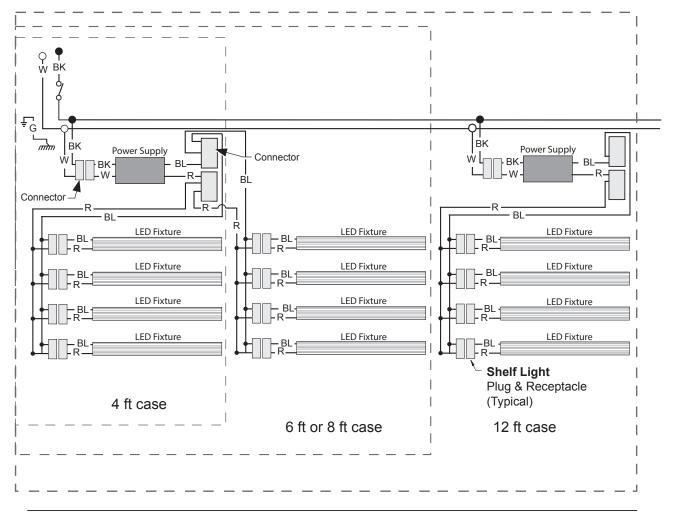


WARNING

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

R = Red Y = Yellow G = Green BL = Blue BK = Black W = White
$$\bullet$$
 = 120V Power \circ = 120V Neutral $\frac{1}{2}$ = Field Ground $\stackrel{min}{m}$ = Case Ground

Optional Shelf Harness and LED Light Circuits for 4 Rows of Shelves



WARNING

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



Estimating Refrigeration and Electrical Load (for comparison purposes only)

Case Btu

To determine Btu for a case, refer to the performance data chart on page 2. Select lit or unlit shelves, then select the type of remote refrigeration system (parallel or conventional), which will give Btu/hr/ft. Multiply this number by the length of the case to determine Btu per hour.

Case Electrical

Refer to store legend to determine number of circuits. Lighting should be specified in store legend.

Fan electrical load for a case is computed by selecting the case length and fan voltage on page 6. For example, a 12 ft case uses 3 fans. The store legend specifies fans on a 230V circuit. In this instance, fans use 0.39 Amps and the MCA is 0.59. When applied, ambient fans, anti-sweat heaters, controllers, etc. must be included in the MCA. Include lights in the MCA if lights are on same circuit.

Lights may be on a separate circuit. To estimate lighting load: select case length (12 ft), canopy lighting [standard or optional] (here 0.70 for standard), and shelf or rail lighting [maximum for which case is wired] (0.99 for four shelves); then add together [0.48 + 0.99 = 1.47 amps for 120V] (for 230V, multiply 1.47 * 0.52 = 0.76).

Line Sizing — Refer to store legend.

Hussmann Line Sizing Charts are engineered for use with Hussmann refrigeration equipment.



Scan QR code to access product information on your mobile device.

Revision History

Revision A: May 2016: Original Issue

Revision B: August 2016: Updated cross section and plan view.

Revision C: January 2017: Added rail light updates.

Revision D: April 2017. Updated LED energy values.

Revision E: April 2017. Updated LED energy values.

Revision F: September 2017. Updated notes page. Other changes marked with a bar, circle or underline.

Revision G: January 2023. Added CO₂ note, Page 2.