HUSSMANN

Insight standard field electrical connections

are at the top left of the merchandiser

Insight® IDD6SU

Dairy / Deli / Beverage /

Produce / Meat

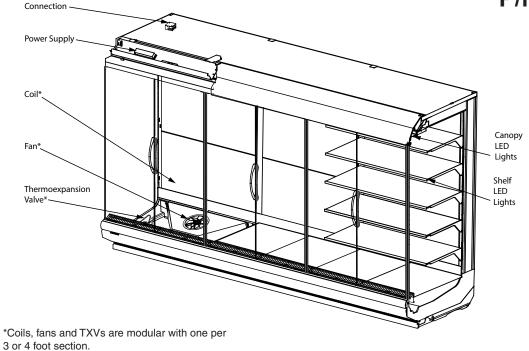
with EcoVision Doors

Merchandiser Data Sheet

P/N 0550565_R

NSF® Certified

November 2023









Portion of parts removed for clarity.

12 foot merchandiser shown.

NSF Certification

Field Electrical

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

IMPORTANT

DRAIN EXTENSION KIT REQUIRED TO PIPE MULTIPLE CASES TO ONE DRAIN, OR TO USE A RAISED HUB DRAIN. SEE PAGE 5 FOR DETAILS.

Performance Data Product Data (AHRI Statistics) Cross Section	Page 2 Page 3	Estimated Shipping Weights Shelf Options Wiring Diagrams	Page 7 Page 7 Page 8
Plan View Electrical Loads	•	Computing Refrigeration and Electrical Load QR Code for Parts and Product Information	Page 11 Page 11
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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.

Data sheet-Insight IDD6SU

Refrigeration Data 1

Reingera	lion Data						
IDD6SU Optimal Shelf Life						Energy Comparison	
	Door Option		EcoVision HA+	EcoVision			
	Application	Dairy/Deli/ Beverage/ Produce	erage/ Pegs ⁴ Convertible/ NSF Type 2 Harsh Meat Ambient ⁴ Environment F		AHRI 1200 Rating Point ⁶		
Unlit	Discharge Air °F (°C)	37 (2.77)	36 (2.22)	34 (1.11)	33 (0.55)	31 (-0.55)	37 (2.77)
	Average Evaporator °F (°C) 2,3	34 (1.11)	33 (0.55)	31 (-0.55)	30 (-1.11)	28 (-2.22)	34 (1.11)
Mullions	Parallel Btu/hr/ft (Watts/m)	290 (279)	320 (308)	340 (327)	350 (337)	425 (409)	290 (279)
	Conventional Btu/hr/ft (Watts/m)	300 (288)	330 (317)	350 (337)	360 (346)	435 (418)	300 (288)
	Discharge Air °F (°C)	36 (2.22)	35 (1.66)	33 (0.55)	32 (0)	30 (-1.11)	36 (2.22)
Lit	Average Evaporator °F (°C) 2,3	33 (0.55)	32 (0)	30 (-1.11)	29 (-1.67)	27 (-2.77)	33 (0.55)
Mullions	Parallel Btu/hr/ft (Watts/m)	311 (299)	340 (327)	360 (346)	369 (355)	442 (425)	311 (299)
	Conventional Btu/hr/ft (Watts/m)	320 (308)	350 (337)	370 (356)	380 (365)	455 (438)	320 (308)
Fan Chaod	IDD6SU6 (10.3")	1200	1200	1200	1200	1200	1200
Fan Speed	IDD6SU4, 8, 12 (10.3")	1200	1200	1200	1200	1200	1200

Notes:

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

Conventional Controls

Defrost Data					
	Type 1	Harsh			
		Environment			
Frequency (hours be	etween defrost)				
	24	12			
OFFTIME	40	30			
Time (minutes)	40	30			
ELECTRIC OR GAS	Not Available				
Defrost Water ⁷	1.5 lb/ft/day	2.3 lb/ft/day (3.4 kg/m)			
1,					
7 (± 15% based on case cor	nfi guration and produ	uct loading).			

Low Pressure Bac Control CI/CO ⁸	IDD6SU kup
_3 3	26°F / 16°F
Indoor Unit Only, Pressure Defrost Termination ⁸	0, 0,0 0

⁸ Use a Temperature Pressure Chart to

determine PSIG conversions.

48°F (8.89°C)

	_	,	
4 ft	0.7 lb	11.2 oz	0.3 kg
6 ft	1.2 lb	19.2 oz	0.5 kg
8 ft	1.6 lb	25.6 oz	0.7 kg
12 ft	3.1 lb	49.6 oz	1.4 kg

IDD6SU

Estimated Charge 9

Product Data

Gross Refrigerated Volume 10 (Cu Ft/Ft) 13.2 ft³/ft (1.23 m³/m) AHRI Total Display Area 11 (Sq Ft/Ft) 5.36 ft²/ft (1.63 m²/m) Shelf Area 12 (Sq Ft/Ft) 11.69 ft²/ft (3.56 m²/m)

^{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 noted.

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 5°F but not more than 10°F. An EPR valve should be used if the system suction temperature is below 24°F. 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).

^{4.} Hussmann Peg Shelves for Dairy/Deli applications only.
5. Data for operation in NSF Type 2 ambient of 80°F and 55% relative humidity.
6. AHRI 1200 Rating Point for energy consumption comparison only.

⁹ This is an average for all refrigerant types. Actual refrigerant charge may vary by approximately half a pound.

¹⁰ AHRI Gross Refrigerated Volume: Refrigerated Volume/Unit of Length, ft³/ft [m³/m]

¹¹ Computed using AHRI 1200 standard methodology: Total Display Area, ft2 [m²]/Unit of Length, ft [m]

¹² Shelf surface area is composed of bottom deck plus standard shelf complement for this model: (5) rows of 22-in. shelves

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.

Shelf complement shown as tested:

Five rows of 22-in. shelves spaced equally between bottom display pan and interior top panel.

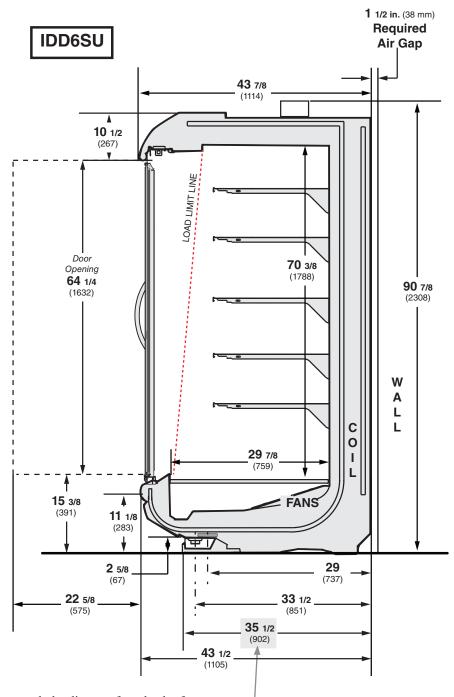
Other optional kits (top piping and vent fans) add to the overall case height.

A minimum 1 ½-in. clearance required to remove raceway cover, 6 ½-in. for full access. See the Installation manual for instructions.

3-in. between back to back cases.

Shown with Ellipse Option Canopy and Bumper.

Dimensions shown as in. and (mm).



NOTE:

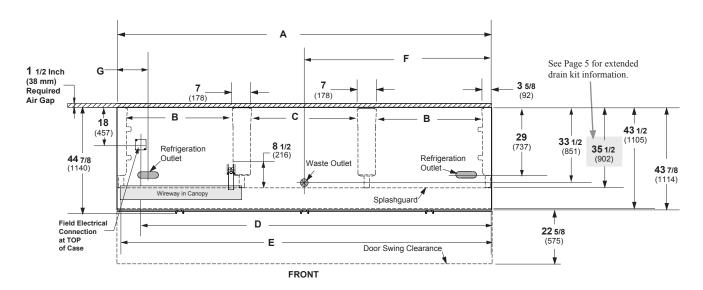
If extended drain kits are used, the distance from back of — case (not including air gap) increases to 41 inches. This may affect floor drain layout. See Page 5 for more details.

Engineering Plan View

WARNING: Floor Drain must be located within 24 inches of Waste Outlet.

See page 5 for Drain Extension Option (must be used with hub-style floor drains).

Dimensions shown as in. and (mm).



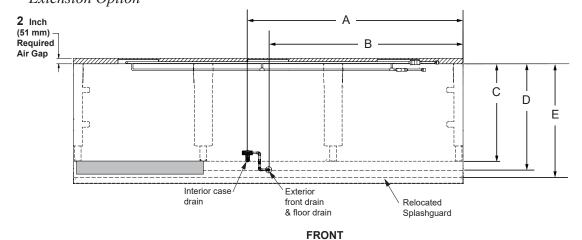
(12 Foot Model shown above)

		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 (3667)
	Maximum O/S dimension of case back to front (includes bumper)	43 1/2 (1105)	43 1/2 (1105)	43 1/2 (1105)	43 1/2 (1105)
	Back of case to front of splashguard	35 1/2 (902)	35 1/2 (902)	35 1/2 (902)	35 1/2 (902)
(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	8 (203)	8 (203)	8 (203)	8 (203)
Elect	rical Service (Field Electrical Wiring Connection)				
(D)	RH End of case to center of Field Electrical Wiring Connection (top of case)	39 3/8 (1000)	63 1/2 (1613)	87 1/2 (2223)	135 1/2 (3442)
	Back of case to center of Field Electrical Wiring Connection	18 (457)	18 (457)	18 (457)	18 (457)
	Length of electrical wireway	44 5/8 (1133)	33 1/2 (851)	45 7/8 (1165)	45 ⁷ /8 (1165)
(E)	RH end of case to LH end of electrical wireway (top of case)	46 1/2 (1181)	70 1/2 (1791)	94 1/2 (2400)	142 5/8 (3630)
Wast	e Outlets (see page 5 for drain extension option)				
(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)	33 1/2 (851)	33 1/2 (851)	33 1/2 (851)	33 1/2 (851)
	Schedule 40 PVC drip pipe	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)
Floor	Drain must be located within 24 inches of Waste Outlet.				
Refri	geration Outlet				
(G)	Back of case to center of refrigeration outlet	29 (737)	29 (737)	29 (737)	29 (737)
	End of case to center of refrigeration outlet	8 1/2 (216)	8 1/2 (216)	8 1/2 (216)	8 1/2 (216)

Engineering Plan View

Insight IDD6SU
Dairy / Deli / Beverage /
Produce / Meat

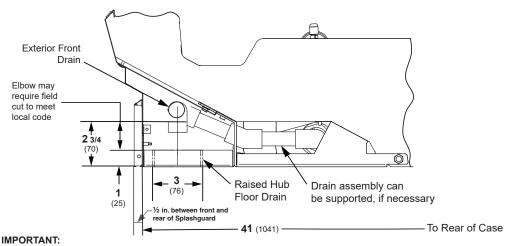
Waste Outlet Drain Extension Option Dimensions shown as in. and (mm).



(12 Foot Model shown above)

		4 ft	6 ft	8 ft	12 ft
Wast	Waste Outlet Drain Option				
(A)	RH of case to center of interior case drain	24 1/8 (613)	24 1/8 (613)	24 1/8 (613)	72 1/4 (1835)
(B)	RH of case to center of exterior front drain and floor drain* *Drain extension shown piped to the right but may be either direction	13 3/4 (349)	13 3/4 (349)	13 3/4 (349)	61 ⁷ / ₈ (1572)
(C)	Back of case to center of original waste outlet	33 1/2 (851)	33 1/2 (851)	33 1/2 (851)	33 1/2 (851)
(D)	Back of case to center of relocated waste outlet (with drain extension kit)	38 1/4 (972)	38 1/4 (972)	38 1/4 (972)	38 1/4 (972)
(E)	Back of case to the back of the relocated splashguard (with drain extension kit)	41 (1041)	41 (1041)	41 (1041)	41 (1041)

Partial End View



DRAIN EXTENSION KIT REQUIRED TO PIPE MULTIPLE CASES TO ONE DRAIN OR TO USE A RAISED HUB DRAIN

IMPORTANT: If the hub drain is used instead of a flush floor sink, a drain extension kit must be installed. Hub drains must be located in front of the waste outlet because of the reguired air gap.

Electrical Data

Number	of Fans		4 ft	6 ft	8 ft	12 ft				
10.3-in.	i		1	2	2	3				
			Amperes				Wa	tts		
Evaporator Fan		4 ft	6 ft	8 ft	12 ft	4 ft	6 ft	8 ft	12 ft	
120V	60Hz	Energy Efficient	0.40	0.80	0.80	1.20	24	48	48	72
230V	50/60Hz	Energy Efficient	0.21	0.42	0.42	0.62	24	48	48	72
Minimum	n Circuit A	mpacity								
120V	60Hz	Energy Efficient	0.60	1.00	1.00	1.40				
230V	50/60Hz	Energy Efficient	0.41	0.62	0.62	0.82				
Maximum Over Current Protection 120V		20	20	20	20					
Maximum Over Current Protection 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.

STANDARD LED LIGHTING LED Canopy Lights 1 Row	0.16	0.22	0.31	0.47	19	27	38	57	
Shelf None									
Optional LED Mullion Lights 60-in.	0.28	0.50	0.50	0.72	33	60	60	87	
120V Lighting Circuit Total = Standard Lighting + Total Optional Lighting 230V Lighting Circuit Total = Multiply 120V Lighting Circuit Total by 0.52									
FRAME ANTI-CONDENSATE HEATERS (Only with EcoVision HA+ Door Option)	0.39	0.59	0.64	0.88	46	69	74	103	

ENDS or PARTITIONS

Each standard end and each insulated partition adds 1 ½ in. (38 mm) to case line up. Optional view end with end bumper adds 3 ¼ in. (95 mm).

PHYSICAL DATA

Merchandiser Drip Pipe (in.) 1 1/4 Schedule 40 PVC Merchandiser Liquid Line (in.) 3/8

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)

 Ib (kg)
 1030 (467)
 1260 (572)
 1490 (676)
 1950 (885)
 90 (41)

† Actual weights will vary according to optional kits included.

Shelf Options

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

18-inch

20-inch

22-inch

24-inch

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

Minimum number of Shelves: 4

Optimal number of Shelves: 5

Maximum number of Shelves: 8

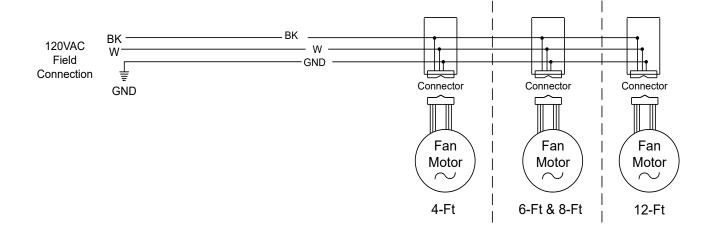
Maximum number of Lighted Shelves: 0

Standard shelf complement for test purposes: (5) rows of 22-in. shelves evenly distributed vertically.

Insight IDD6SU Dairy / Deli / Beverage /

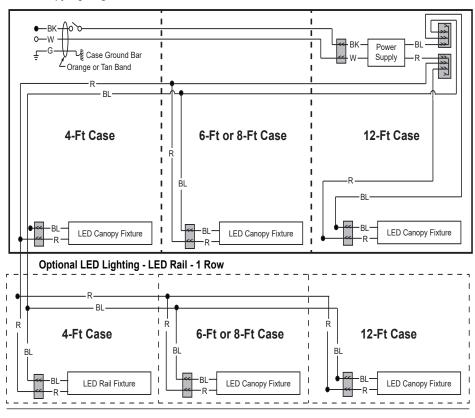
Dairy / Deli / Beverage / Produce / Meat

Fan Wiring Offtime Defrost



LED Canopy Light Circuits

LED Canopy Lighting - 2 Rows



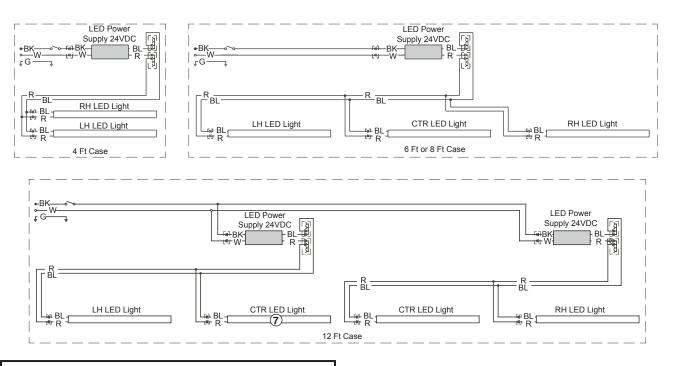
All components must have mechanical ground, and the merchandiser must be grounded.

R = Red Y = Yellow G = Green BL = Blue BK = Black W = White \blacksquare = 120V Power \bigcirc = 120V Neutral $\frac{1}{2}$ = Field Ground $\frac{1}{1000}$ = Case Ground

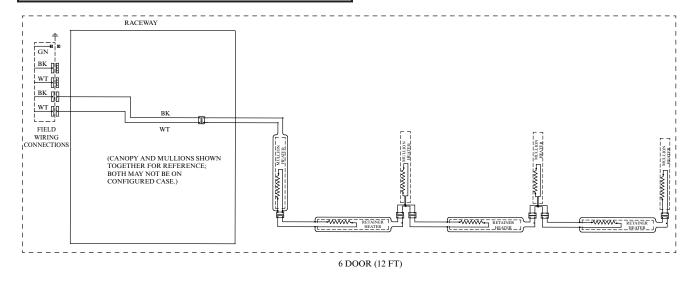
WARNING

Mullion LED Lighting

Insight IDD6SU Dairy / Deli / Beverage / Produce / Meat



Door Frame Heater EcoVision HA+ Only



WARNING

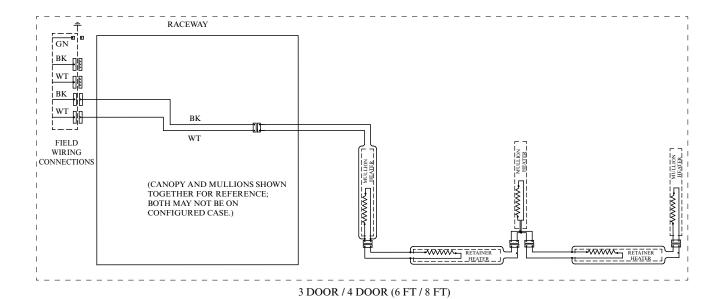
All components must have mechanical ground, and the merchandiser must be grounded.

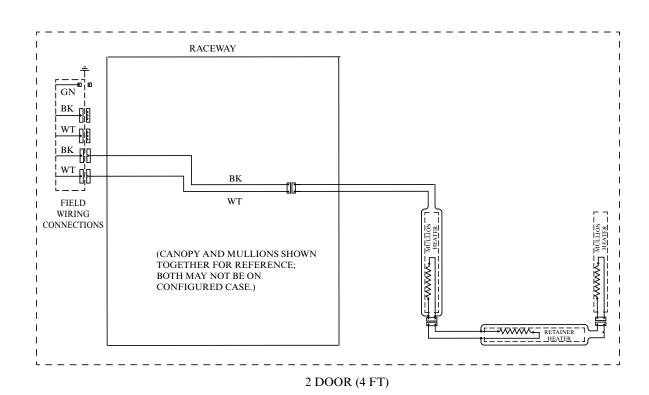
R = Red Y = Yellow G = Green BL = Blue BK = Black W = White
$$\bullet$$
 = 120V Power \circ = 120V Neutral $\stackrel{\perp}{=}$ = Field Ground $\stackrel{min}{=}$ = Case Ground

Insight IDD6SU

Dairy / Deli / Beverage / Produce / Meat

Door Frame Heater EcoVision HA+ Only





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
$$= 120V$$
 Power $= 120V$ Neutral $= Field$ Ground $= CASE$ Ground

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. Add 10 BTU/HR/FT for LED Mullion Lights.

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 0.62 Amps and the MCA is 0.82. 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 mullion lighting [maximum for which case is wired] (0.74 for EcoShine II 60 mullion lights); then add together [0.48 + 0.74 = 1.22 amps for 120V] (for 230V, multiply 1.22 * 0.52 = 0.63).

Line Sizing — Refer to store legend.

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



Scan the QR code with 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

Revision History

Revision A: April 2015: Original Issue

Revision B: October 2015: Updated cover image and updated performance data on page 2.

Revision C: December 2015: Updated cross section and plan view.

Revision D: April 2016: Updated cover image, updated application data, updated cover image,

added Gross Refrigerated Volume and updated plan view.

Revision E: June 2016: Updated cross section.

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

Revision G: January 2017: Removed EcoShine "Plus" references.

Revision H: April 2017: Updated LED energy values.

Revision J: April 2017: Updated LED energy values.

Revision K: September 2017: Updated notes page.

Revision L: May 2018: Updated lighting information.

Revision M: July 2019. Updated parts list, lighting and drain information.

Revision N: July 2022. Added notes for Extended Drain Kit Option.

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

Revision R: November 2023: Updated fan and lighting information.