

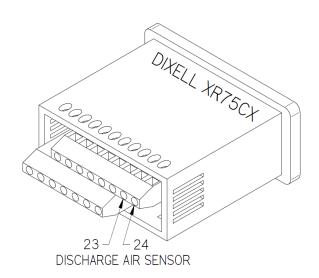
Item	Part #	Description	Wiring Item #	Item	Part #	Description	Wiring Item #
FAN AS	SSEMBLIES AN	ND THERMOSTATS		Refric	GERATION		
А.	0522287	High Efficiency	Fan Motor, (2)	С.	3008655	Condensing Unit	Assembly 115V
		Ambient (120V)	(MO.4411037)	D.	0331344	Sight Glass (GL.	4974431)
				E.	0501739	Drier	
RACEW	AY			F.	0431353	TEV	
B.	3044947	Controller - XR	75				
		SSG8B		LAMPS	S AND BALLAS	STS	
				G.	Ballast, E	lectronic	(4)
					0355716	2 lamps (120V) (BA.0355716)
					0355398	3 lamps (120V) (BA.4480188)
				Η.		Fluorescent Lar	mp (5)
						Replace with like	fixtures

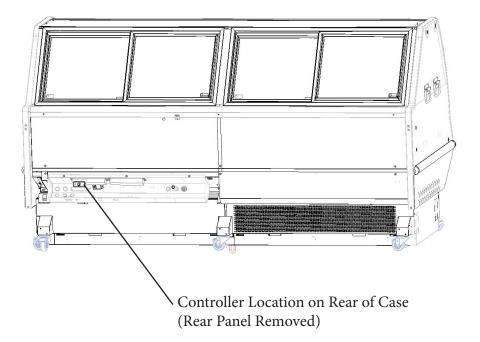
Data sheet-Excel SSGB

Note: Revision E: added controller information. Other changes marked by bar, underline or circle.

Start Up / Operation

See Section 3, P/N 3018126, SMG8B & SSG8B Medium Temperature Self Contained Installation and Operation Manual for detailed controller information.





Controller Parameters

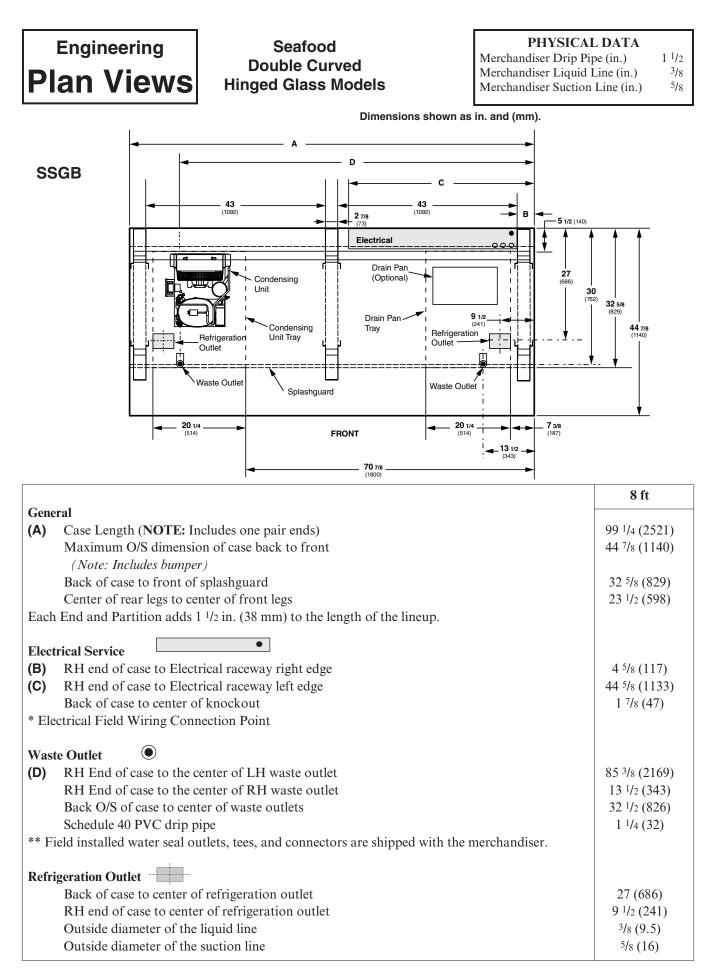
		Dixell XR75			
XR 75 Code	XR 75 Parameter	XR 75 Function	XR 75 Default	SSG8B	SMG8B
SEt	Temperature Setpoint	LS to US	-5	17	19
JLI	Temperature Setpoint	REGULATION	-5	1,	1.
		(0.1 to 25.5°C / 1 to 255°F)Intervention differential for setpoint. Compressor			
		Cut IN is setpoint + differential (Hy).Compressor Cut OUT is when the			
Hy	Differential	temperature reaches the setpoint.	2	g	
LS	Minimum setpoint	(-100°C to SEt/-148°F to SEt)Sets the minimum value for the setpoint.	-50	10	
			50		
US	Maximum setpoint	(SEt to 110°C/ SEt to 230°F)Set the maximum value for the setpoint.	110	33	26
		(-12.0 to 12.0°C; -120 to 120°F)Allows to adjust possible offset of the			
ot	Thermostat probe calibration	thermostat probe.	0	0) (
		n = not present: the defrost stops by time y = present: the defrost stops			
P2P	Evaporator probe presence	by temperature	Y	n	n
		(-12.0 to 12.0°C; -120 to 120°F)Allows to adjust possible offset of the			
oE	Evaporator probe calibration	evaporator probe.	0	0) (
		n = not present; the terminals 18-20 operate as digital input y = present;			
P3P	Third probe presence (P3)	the terminals 18-20 operate as third probe	n	n	n
		(-12.0 to 12.0°C; -120 to 120°F) Allows to adjust possible offset of the third			
o3	Third probe calibration (P3)	probe.	0	0) (
P4P	Fourth probe presence	(n = not present; y = present)	n	n	n
o4	Fourth probe calibration	(-12.0 to 12.0°C) Allows to adjust possible offset of the fourth probe.	0	() (
		(0 to 255 min) This function is enabled at the initial start up of the device			
		and inhibits any output acti-vation for the period of time set in the			
Ods	Outputs activation delay at startup	parameter.	0	0) (
		(0 to 50 min) Minimum interval between the compressor stop and the			
Ac	Anti-short cycle delay	following restart.	1	2	. 2
	Percentage of the second andfirst				
	probe for regulation (0 to100; 100	Allows to set the regulation according to the percentage of the first and			
rtr	= P1, 0 = P2)	second probe, as for the following formula (rtr(P1-P2)/100 + P2).	100	100	100
		(0.0 to 24.0 hr; res. 10 min)Allows to set the length of the continuous cycle:			
	Compressor ON time during	compressor stays ON without interruption for the CCt time. Can be used, for			
CCt	continuous cycle	instance, when the room is filled with new products.	0	0) (
CCS	Setpoint for continuous cycle	(-100 to 150°C)Sets the setpoint used during the continuous cycle.	-5	17	
	Compressor ON time with faulty	(0 to 255 min)Time during which the compressor is active in case of faulty			
Con	probe	thermostat probe. WithCon = 0, compressor is always OFF.	15	e	5 E
	Compressor OFF time with faulty	(0 to 255 min)Time during which the compressor is OFF in case of faulty			
CoF	probe	thermostat probe. When CoF= 0, compressor is always active.	30	2	
	•	°C = Celsius, °F = Fahrenheit, (CAUTION! When the measurement unit is			
		changed, the setpoint and the values of the parameters Hy, LS, US, ot, ALU			
CF	Temperature measurement unit	and ALL have to be checked and modified if necessary).	С	F	F
rES	Resolution (for °C)	(in = 1°C; dE = 0.1°C) Allows decimal point display.	dE	dE	dE
		(P1; P2, P3, P4, SEt, dtr) Selects which probe is displayed by the device: P1 =			
		Thermostat probe P2 = Evaporator probe; P3 = Third probe (only for models			
		with this option enabled), P4 = Fourth probe, SEt= setpoint, dtr =			
Lod	Device display	percentage of visualization	P1	P1	P1
	- F - 7	(P1; P2, P3, P4, SEt, dtr) Selects which probe is displayed by the device: P1 =			
		Thermostat probe P2 = Evaporator probe; P3 = Third probe (only for models			
		with this option enabled), P4 = Fourth probe, SEt= setpoint, dtr =			
Red	X- REP display (optional)	percentage of visualization	P1	P1	P1
		(0 to 20.0 min; resul. 10 seconds) When the temperature increases, the			
dLy	Display delay	display is updated of 1°C/1°F after this time.	0	() (
i i	Demonstrate of the second and finite				
	Percentage of the second and first				
	-	If Lod = dtr, it allows to set the visualization according to the percentage of			
dtr	dtr (0 to 100; 100 = P1, 0 = P2)	the first and second probe, as for the following formula (dtr(P1-P2)/100 + P2).	50	100	100

Controller Parameters

	1	DEFROST		+			
		rtC = Real Time Clock mode. Defrost time follows Ld1 to Ld6 parameters on		1			
	Defrost mode (only for controller	workdays and Sd1 to Sd6 on holidays. in = interval mode. The defrost starts					
dF	with RTC)	when the time ldf is expired.	rtC	in		in	
dF	Defrost type Probe selection for defrost	EL = electrical heater in = hot gas nP = no probe P1 = thermostat probe P2 = evaporator probe P3 =	EL	EL		EL	
İFP	termination	configurable probe P1 = thermostat probe P2 = evaporator probe P3 =	P2	P1		P1	
		(-50 to 50°C/ -58 to 122°F) (Enabled only when EdF = Pb) Sets the temperature					
dtE	Defrost termination temperature	measured by the evaporator probe, which causes the end of defrost.	8		48		
dF	Interval between defrost cycles	(0 to 120 hr) Determines the time interval between the beginning of two defrost cycles.	6		24		:
		(0 to 255 min) When P2P = n, (not evaporator probe: timed defrost) it sets					
MdF	(Maximum) length for defrost	the defrost duration, when P2P = y (defrost end based on temperature) it sets the maximum length for defrost.	30		90		ç
WIGH	(Maximum) length for demost	(0 to 99 min) This is useful when different defrost start times are necessary			50		-
dSd	Start defrost delay	to avoid overloading the plant.	0		0		
dFd	Temperature displayed during defrost	<pre>(rt = real temperature; it = temperature at defrost start; SEt = setpoint; dEF = dEF la-bel)</pre>	it	Def		Def	
иги		(0 to 255 min)Sets the maximum time between the end of defrost and the		Dei		Dei	
dAd	MAX display delay after de-frost	restarting of the real roomtemperature display.	30		30		З
		(0 to 120 min)Time interval between reaching defrost termination					
		temperature and the restoring of thecontrollers normal operation. This time allows the evaporator to eliminate water drops that might have formed due					
Fdt	Drip time	to defrost.	0		0		
dPo	First defrost after start-up	(y = immediately; n = after the IdF time)	n	у		у	
		(0 to 23.5 hr)Time interval between the end of the fast freezing cycle and the					-
dAF	Defrost delay after continuouscycle	following defrost related to it. FANS	0		0		
		C-n = runs with the compressor, OFF during defrost O-n = continuous mode,		+	-+		
		OFF during defrost C-y = runs with the compressor, ON during defrost					
FnC	Fans operating mode	O-y = continuous mode, ON during defrost	O-n	0-у		0-у	
End	Fans delay after defrost	(0 to 355 min) Interval between and of defined and supporter fact that	10		0		
Fnd	Fans delay after defrost	(0 to 255 min) Interval between end of defrost and evaporator fans start (0 to 59°C; FCt = 0 function disabled) If the difference in temperature	10		0		
	Temperature differential avoiding	between the evaporator and the room probes is more than the value of the					
FCt	short cycles of fans	FCt parameter, the fans are switched ON.	10		0		
		(-50 to 50°C/ 122°F) Setting of temperature, detected by the evaporator			Ţ		
FSt	Fans stop temperature	probe, above which fans are always OFF. (0 to 15 min) With Fnc=C_n or C_y, (fan activated in parallel with	2	+	2		
		compressor). Sets the evaporator fan ON cycling time when the compressor is					
		OFF. When Fon=0 and FoF not equal to 0, the fans are always OFF, with					
Fon	Fan ON time	Fon=0 and FoF=0, the fans are always OFF.	0		0		
		(0 to 15 min)With Fnc=C_n or C_y, (fan activated in parallel with compressor).					
		Sets the evaporator fan OFF cycling time when the compressor is OFF. When					
FoF	Fan OFF time	Fon=0 and FoF not equal to 0, the fans are always OFF, when Fon=0 and FoF=0, the fans are always OFF.	0		0		
	Probe selection for fan	nP = no probe P1 = thermostat probe P2 = evaporator probe P3 =					
FAP	management	configurable probe P4 = probe on Hot Key plug	P2	nP		nP	
		RMOSTAT CONFIGURATION (terms. 1-4) - oA3 = AUS					
АСН	Kind of regulation for auxiliary relay	Ht = heating CL = cooling	CL	CL		CL	
		(-100 to 150.0°C; -148 to 302°F) Defines the room temperature setpoint to					
SAA	Setpoint for auxiliary relay	switch auxiliary relay.	0		0		
		(0.1 to 25.5°C/ 1 to 255°F)Intervention differential for auxiliary output					
SHy	Differential for auxiliary output	setpoint. When ACH = CL, AUX Cut in is SAA + SHy; AUX Cut out is SAA When ACH = Ht , AUX Cut in is SAA - SHy; AUX Cut out is SAA	2		2		
J. 1 Y	Sincreman for auxiliary output	nP = no probe, the auxiliary relay is switched only by the digital input P1 =		+	~		
		Probe 1 (thermostat probe) P2 = Probe 2 (evaporator probe) P3 =		1			
ArP	Probe selection for auxiliary	Probe 3 (display probe) P4 = Probe 4	nP	nP		nP	
Sdd	Auxiliary relay OFF during defrost	n = the auxiliary relay operates during defrost y = the auxiliary relay is switched OFF during defrost	n	n		n	
Juu	pressingly relay of Fudiling denost	ALARMS		<u> </u>	_		
		nP = no probe, the temperature alarms are disabled P1 = Probe 1					
	Duck a selection f	(thermostat probe) P2 = Probe 2 (evaporator probe) P3 = Probe 3 (display				D 4	
ALP	Probe selection for alarm	probe) P4 = Fourth probe (Ab; rE) Ab = absolute temperature: alarm temperature is given by the ALL or	P1	P1		P1	
		ALU values. rE= temperature alarms are referred to the setpoint.					
		Temperature alarm is enabled when the temperature exceeds the SEt + ALU or					
ALC	Temperature alarms configuration	SEt - ALL values.	Ab	Ab		Ab	
	Maximum termenature -l	(SEt to 150°C; SEt to 302°F)When this temperature is reached, the alarm is	110				-
ALU	Maximum temperature alarm	enabled, after the ALd delay time. (-100 to SEt; -148°C to 230°F)When this temperature is reached, the alarm is	110	+	56		5
	Minimum temperature alarm	enabled, after the ALd delay time.	-50	1	10		1
ALL	be seen a manual seen and seen a s	(0.1 to 25.5°C; 1 to 45°F) Intervention differential for recovery of		1			
ALL							
	Differential for temperature alarm	temperature alarm. It is also used for the restartof the fan when the FSt					
	Differential for temperature alarm recovery	temperature is reached.	2		4		
AFH	recovery	temperature is reached. (0 to 255 min) Time interval between the detection of an alarm condition					-
4FH		temperature is reached.	2 15		4 30		3
	recovery	temperature is reached. (0 to 255 min) Time interval between the detection of an alarm condition		<u> </u>			3

Controller Parameters

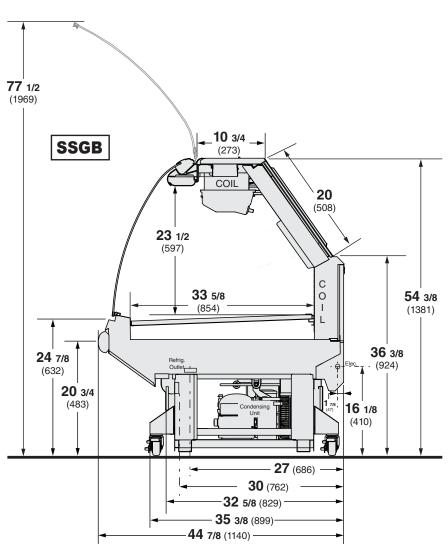
		CONDENSER TEMPERATURE ALARM				
	Probe selection for temperature	nP = no probe P1 = thermostat probe P2 = evaporator probe P3 =				
AP2	alarm of condenser	configurable probe P4 = probe on Hot Key plug	P4	nP	nP	
	Low temperature alarm of	(-100 to 150°C) When this temperature is reached, the LA2 alarm is signaled,				
AL2	condenser	possibly after the Ad2 delay.	-40		10	-40
4112	High temperature alarm of condenser	(-100 to 150°C)When this temperature is reached, the HA2 alarm is signaled,	110	1		110
AU2	Differential for temperature	possibly after the Ad2 delay.	110	1	10	110
AH2	condenser alarm recovery	(0.1 to 25.5°C; 1 to 45°F)	5		52	52
/	Condenser temperature alarm	(0 to 255 min)Time interval between the detection of the condenser alarm	5			52
Ad2	delay	condition and alarm signaling.	15		15	15
	Condenser temperature alarm					
dA2	exclusion at start up	(from 0.0 min to 23.5 hr, res. 10 min)	1.3	1	.3	1.3
		n = no: compressor keeps on working Y = yes, compressor is switched OFF				
	Compressor OFF with low	until the alarm is present, in any case regulation restarts after Ac time at				
bLL	temperature alarm of condenser	minimum.	n	n	n	
		n = no: compressor keeps on working Y = yes, compressor is switched OFF				
	Compressor OFF with high	until the alarm is present, in any case regulation restarts after Ac time at				
AC2	temperature alarm of condenser	minimum. AUXILIARY RELAY	n	n	n	
		n= silencing disabled: alarm relay stays ON until alarm condition lasts y				
	Alarm relay silencing (with	=silencing enabled: alarm relay is switched OFF by pressing a key during an				
tbA	oA3=ALr)	alarm	у	v	v	
		dEF, FAn: do not select it! ALr: alarm; Lig: light; AUS: Auxiliary relay; onF:	,	1	ľ	
		alwaysON with device ON; db= neutral zone; cP2 = do not select it!; dEF2: do				
oA3	Fourth relay configuration (1-4)	not select it!; HES: night blind	Lig	Alr	Alr	
		Set if the alarm relay is open or closed when an alarm happens. CL=				
		terminals 1-4 closed during an alarm oP = terminals 1-4 open during an				
AOP	Alarm relay polarity	alarm	CL	CL	CL	
		DIGITAL INPUTS				
:4 D	Disital insult as leader (10,20)	oP = the digital input is activated by opening the contact CL = the digital	C 1	CI.	~	
i1P	Digital input polarity (18-20)	input is activated by closing the contact	CL	CL	CL	
i1F	Digital input configuration (18-20)	dor = door switch functiondEF = activation of a defrost cycle	dor	dor	dor	
111	Digital input configuration (10 20)	oP = the digital input is activated by opening the contact CL = the digital	401	001		
i2P	2nd digital input polarity (18-19)	input is activated by closing the contact	CL	CL	CL	
	, (,					
		EAL= external alarm: "EA"@message is displayed bAL= serious alarm "CA"@				
		message is displayed PAL= pressure switch alarm, "CA"message is displayed				
		dor = door switch function dEF= activation of a defrost cycle ES = energy				
		saving AUS = auxiliary relay activation with oA3 = AUS Htr = kind of action				
	2nd digital input configuration(18-	inversion (cooling - heating) FAn = fan HdF = Holiday defrost (enable only				
i2F	19)	with RTC) onF = to switch the controller OFF	EAL	EAL	EAI	-
	(0 to 255 min) with i2F= EAL or i2F	Delay between the detection of the external alarm condition and its signaling.				
	= bAL digital input alarm delay (18-		45		-	4.5
did doA	20)	the number of the pressure switch activation.	15 15		L5 L5	15
UUA	Door open signaling delay	(0 to 255 min)	15			15
		(0 to 15) Number of activation of the pressure switch, during the did interval,				
		before signaling the alarm event (i2F = PAL). If the nPS activation in the did				
nPS	Pressure switch number	time is reached, switch OFF and ON the device to restart normal regulation.	15		15	15
	Compressor status when open	no = normal Fan = fan OFF CPr = compressor OFF F_C = compressor and				
Odc	door	fan OFF	F-C	F-C	F-C	
		no = outputs not affected by the doA alarm yES = outputs restart with the				
rrd	Outputs restart after doA alarm	doA alarm	У	У	У	
	Temperature increase during the	(-30.0°C to 30.0°C) Sets the increasing value of the setpoint during the Energy	-		_	
HES	Energy Saving cycle	Saving cycle.	0		0	C
		OTHER PARAMETERS		+	-	
Adr	Sorial addross (1 to 244)	Identifies the device address when connected to a MODBUS compatible monitoring system.	1		1	1
Adr	Serial address (1 to 244)	Allows to set the kind of probe used by the device: Pt1 = Pt1000 probe ntc	1	+	-	1
pbC	Type of probe	= NTC probe	ntc	ctc	ctc	
onF	ON/OFF key enabling	not used = disabled oFF = enabled ES = not set it				
dP1	Thermostat probe display			1		
dP2	Evaporator probe display					
dP3	Third probe display - optional					
dP4	Fourth probe display					
		Shows the setpoint used during the energy saving cycle or during the				
rSE	Real setpoint	continuous cycle.		_		
rEL	Software release	For internal use only			-	
Ptb	Parameter table code	Read-only				



Curved Hinged Glass, Gravity, Single 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).



REFRIGERATION DATA

Note: This data is based on store temperature and humidity that does not exceed 75°F and 55% R.H. Schedule defrost at night while lights are off.

	SSGB
Discharge Air (°F)	21
XR75 Setting CI/CO (°F) *	
С/І	26

*See table on page 2 for additional settings.

C/O

Condensing Unit (hp) 0.50

Condensing Unit Capacity

(Btu/hr at std. rating conditions) 4414

DEFROST DATA

	SSGB
Frequency (hr)	24
Defrost Water (lb/ft/day)	0.71
(± 15% based on case config product loading).	uration and

SSGB

17

OFFTIME Failsafe (minutes) 90

PHYSICAL DATA

Refriger	rant Charge (I	R404A)	
8 ft	3.63 lb	58 oz	1.64 kg

NSF Certification

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

Excel SSGB Seafood

Electrical Data

Number of Fans	8 ft
Ambient Air Wipe – 15W	2

Merchandiser	Amperes 8 ft	Watts 8 ft
Ambient Air Wipe Fans		
High Efficiency (120V 60hz)	0.4	30
Constant On Anti-sweat Heaters	NA	NA
Cycling Anti-sweat Heaters	NA	NA
Condensing Unit (120V, 1ph, 60Hz)		
Minimum Circuit Ampacity	14.8	
Compressor LRA	54.5	
Compressor RLA	10.5	
Minimum Circuit Ampacity		
With Standard Fans (120V 60hz)	15.2	
Maximum Over Circuit Protection 120V	20	
Electric Defrost Heaters (208V)	NA	
Gas Defrost Heaters (208V)	NA	
Standard Lighting* (120V 60hz)	8 ft	8 ft
2 Row Canopy	0.98	116

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.

Optional Lighting 1 Row Rear Canopy	0.49	58
115V Lighting Circuit Total = Standard Lighting + 230V Lighting Circuit Total = Multiply 115V Ligh	1 0 0	

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.

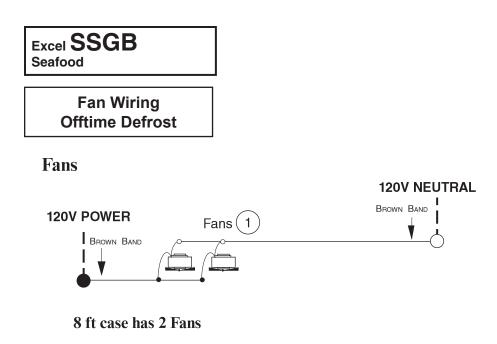
Product Data

Gross Refrigerated Volume ¹ (Cu FtlFt)	3.03 ft ³ /ft (0.28 m ³ /m)
AHRI Total Display Area ² (Sq FtlFt)	3.50 ft ² /ft (1.07 m ² /m)
Shelf Area ³ (Sq FtlFt)	2.80 ft ² /ft (0.85 m ² /m)

- 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]

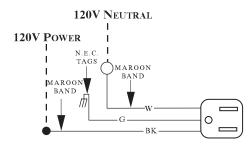
³ Shelf surface area is composed of bottom deck, as shown in the Hussmann *Product Reference Guide*.

ESTIMATED SHIPPING WEIGHT 4				
			Glass /	
Case		Solid End	Plastic End	
	8 ft		(each)	
lb (<i>kg</i>) 9	00 (408)	70 (32)	100 (45)	



Receptacles

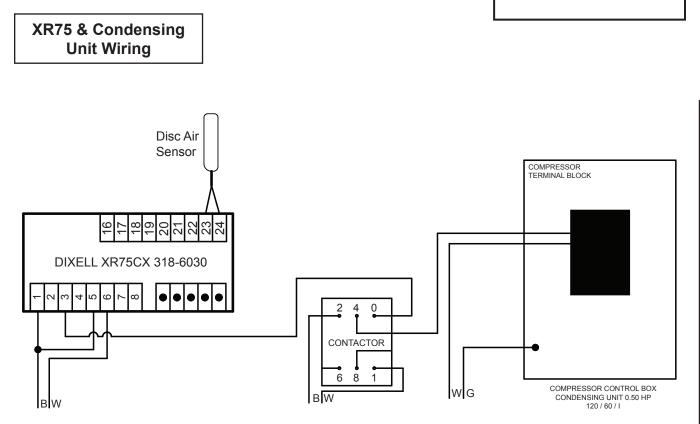
Electric Service Receptacle



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	W = White
• =	120V Power	\odot = 120V	NEUTRAL	<u>+</u> =	Field Ground	# = Case Gr	ROUND



WARNING

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

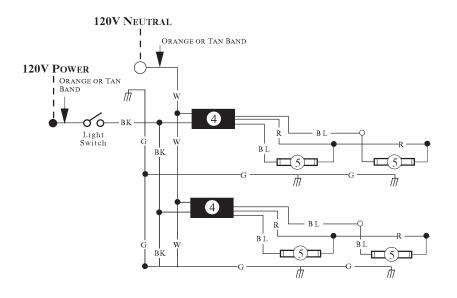
CIRCLED NUMBERS = PARTS LIST ITEM NUMBERS

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

• = 120V Power O = 120V Neutral $\frac{1}{2}$ = Field Ground $\frac{1}{12}$ = Case Ground

Light Circuits

Standard Lighting 2 Row Canopy



WARNING

All components must have mechanical ground, and the merchandiser must be grounded. Circled Numbers = Parts List Item Numbers

 $R = Red \quad G = Green \quad BL = Blue \quad BK = Black \quad W = White$ $\bullet = 120V \text{ Power} \quad \bigcirc = 120V \text{ Neutral} \quad \stackrel{\perp}{=} = Field \text{ Ground} \quad \stackrel{\text{therefore}}{=} = C_{ASE} \text{ Ground}$