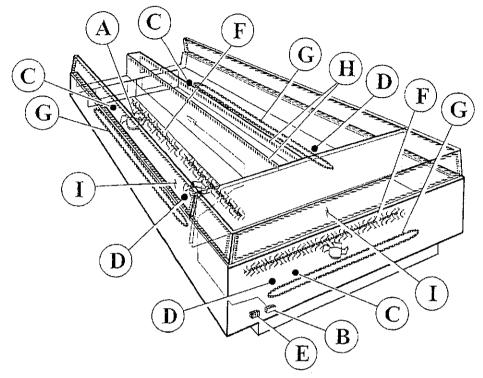
HUSSMAnn®

LWUG Data Sheet Set

P/N 395742F

August 2000





FAN ASSEMBLIES, AND THERMOSTATS

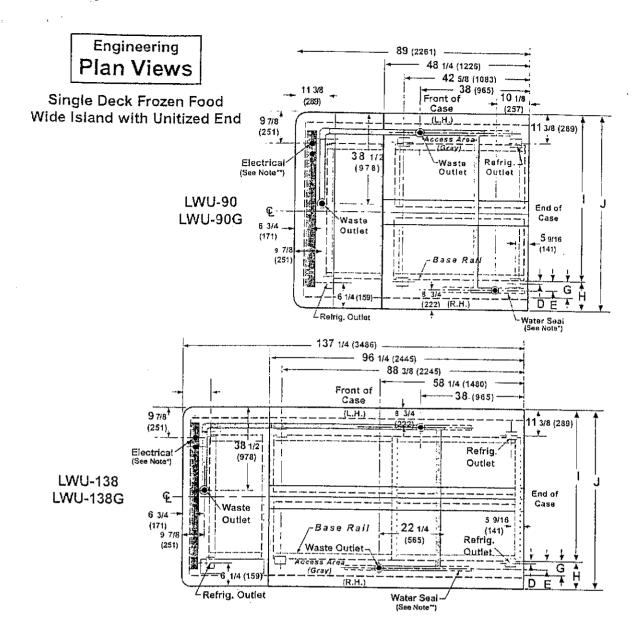
Item Part# Description Wiring Item # A. 4W Fan Assembly (1) 392457 Fan Motor, Standard 409511 Parent - Fan Blade embossing toward motor 6 3/4 Inch, 20°, CW 409513 End Unit - Fan Blade embossing toward motor 6 3/4 Inch, 30°, CW B. Optional Adjustable Refrigeration Thermostat, (2) 144732 White Rodgers 253451 Honeywell C. 398557 (Front & End) Defrost Termination Thermostat (3) 398558 (Rear) (Electric Defrost Only) D. 425304 Heater Switch (4) (Koolgas Defrost Only) **HEATERS** E. Control-Glass Anti-sweat Heaters (Export) (5) Contour Ends 250V, 5amp 400543 90 & 138 inch cases

HEATERS

İtem	Part#	Description	Wiring Item #
F.	Modular Elec 395709 406444	tric Defrost Heaters Parent Compartmen End Compartmen	, 208V (6) ents
G.	Drip Pan Heat 392412 392413 392412	ters, Electric 208V 90 inch case 138 inch case End Compartment	(7)
	Drip Pan Heat 421237 421238 421237	ers, Koolgas 120V 90 inch case 138 inch case End Compartment	
H.	Nosing Anti-st 401603 401605 401612	weat Heaters 90 inch case (Disc 138 inch case (Dis End Compartment	charge)
[.	Multiglass - 2 420174 420175 420176 420177 420183 420182	Pane, w/heater (From 90 inch case (From 90 inch case (Rear) 138 inch case (From 138 inch case (Rear End compartment (Contour End) it) r)

Note: Changed items have been underlined.

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Length of Case—U-90 - 89; U-138 - 137 1/4 End of case to end compartment —U-90 - 48 1/4; U-138 - 96 1/4

Maximum O/S dimensions of case front to rear (includes bumper)---J = $81\ I/2$ Front of splashguard to O/S edge of base rail ---G = $8\ I/2$ Front edge of case to O/S edge of rear base rail---I = 69 Rear of case to O/S edge of rear base rail----H = $12\ I/2$

Width of base rail---- 2 1/2

Stub-up area between from base rail and splashguard---- 7 5/8

Electrical Service

Edge of case to center of knockouts---- 6 3/4
Front O/S edge of case to nearest knockout--- 9 7/8
Note *: Electrical Field Wiring Connection Point

Waste Outlet (

End of case to center of rear waste outlet ---U-90-- 10 1/8; U-138-- 58 1/4

Center of waste outlet to O/S edge of rear base rail---E = 3.3/4--End of case to center of front waste outlet--- U-90-- 38;
U-138-- 38

O/S edge of case to center of waste outlet --- 8 3/4

Water Seal

Edge of water seal to center of waste outlet---- 11 O/S diamater of drip pipe lines---- 1 1/2 Note**: Field installed water seal outlet, tees, and connectors, are shipped with case.

Refrigeration Outlet ___

End of case to center of front and rear refrigeration outlets-- 5 9/16
End of case to center of refrigeration outlets at other end--- U-90- 42 5/8; U-138-- 88 3/8
O/S edges of case to center of refrigeration outlets--- 11 3/8
Center of refrigeration outlet to O/S edge of rear base rail---D = 1 1/4

Impact LWUG Frozen Food & Ice Cream

REFRIGERATION DATA

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

	FF	IC
Discharge Air (°F)	-12-	22
Evaporator(°F)	-20-	30
Unit Sizing (°F)	-23-	33
Btu/hr/case*	FF	IC
Parallel		
90 in.	5425	5485
138 in.	8525	8620
Conventional		
90 in.	5600	5665
138 in.	8800	8900

*For all refrigeration equipment other than Hussmann, use conventional Btu values.

DEFROST DATA

Frequency (hr) 24 24 Defrost Water (lb/day) 90 in. 12.5 10.0 138 in. 20.0 - 16.0 (± 15% based on case configuration and product loading). ELECTRIC FF IC

 ELECTRIC
 FF
 IC

 Temp Term (°F)
 48°
 48°

 Failsafe (min)
 60
 60

 GAS
 Duration (min)
 15
 18

OFFTIME OR REVERSE AIR
Not Recommended

CONVENTIONAL CONTROLS Low Pressure Backup Control

FF IC CI/CO (Temp °F)** <u>-27°/-39°</u> <u>-27°/-39°</u>

Indoor Unit Only, Pressure Defrost
Termination (Temp °F)*****

Not Recommended
**Use a Temperature Pressure Chart to
determine PSIG conversions.

PHYSICAL DATA

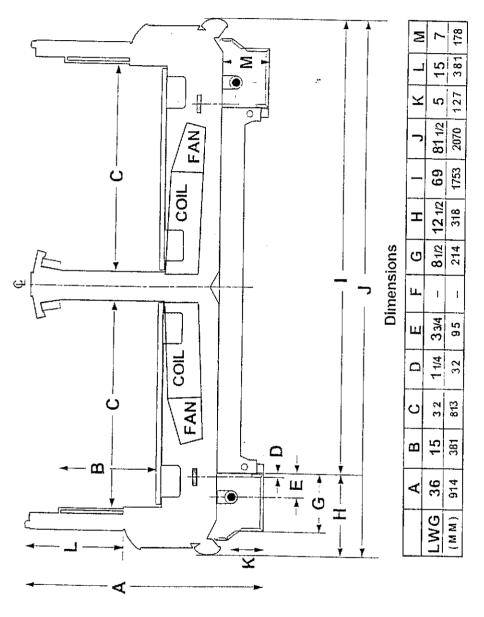
TOTOLILL D	TATE
Drip Pipe (in.)	1 1/4
Liquid Line (in.)	3/8
Suction Line (in.)	7/8
Estimated Charge (lb)***	
90 in.	2.8
138 in.	16

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

Length Added to Lineup by:
Each End/Partition (in.) 1 1/2
Each Contoured End (in.) 5

3 of 7

Dimensions shown in inches & (mm).



NOTE: The bumpers are 4 inches wide. The top of the front glass bumber rail is 21 inches from the floor, and the center of the bottom bumper is $8^{-1}/4$ inches from the floor.

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Impact LWUG

Frozen Food & Ice Cream

Electrical Data

	90 in.	138 in.
Number of Fans – 4W	3	5
Number of Fans – 9W(Export)	3	5
(Export: 230V 50 hz shown)		
Number of Fans $-2W(ECM)$	2	4

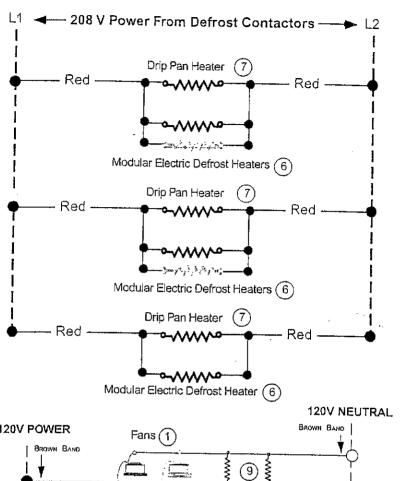
(Energy Efficient fan motors not available for End or End-compartment models)

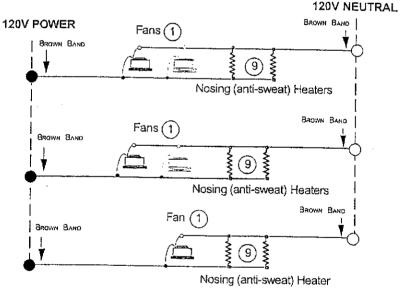
	Amperes		Watts	
Merchandiser	90 in.	138 in.	90 in.	138 in.
Fans				
Standard	0.78	1.30	54	90
Energy Efficient	0.50	0.74	25	32
Export: 230V 50hz	0.90	1.50	144	240
Anti-sweat Heaters (on fan circuit)				
Nosing Anti-sweat Heaters	1.42	2.08	170	250
Export: 230V 50hz (Discharge)	0.74	1.09	170	250
Glass Anti-sweat Heaters				
Glass Heaters	3.44	4.28	412	514
Export: 230V 50hz (Glass)	1.97	2.46	454	566
Cycling Anti-sweat Heaters	NA			
Export: 230V 50hz	NA			
Min. Circuit Ampacity				
With Standard Fans	2,40	3.58		
With Energy Efficient Fans	2.12	3.02		
Export: 230V 50hz	1.84	2.79		
Max. Over Current Protection	20	20		
Export: 230V 50hz	15	20 15		
•	13	13		
208V 1 Electric Defrost Heaters				
Front Compartment	4.00	<u>8.00</u>	<u>835</u>	<u> 1670</u>
Rear Compartment	4.00	<u>8.00</u>	<u>835</u>	1670
End Compartment	<u>5,50</u>	<u>5.50</u>	<u>1150</u>	<u>1150</u>
Export: 230V 50hz Electric Defrost Hea				
Front Compartment	<u>4.40</u>	<u>8.90</u>	<u>1012</u>	<u>2047</u>
Rear Compartment	<u>4.40</u>	<u>8.90</u>	<u>1012</u>	2047
End Compartment	<u>6.10</u>	<u>6.10</u>	1403	<u>1403</u>
120V 1Φ Koolgas Drip Pan	<u>3.75</u>	<u>6.25</u>	<u>450</u>	750
Export: 120V 50hz Koolgas Drip Pan	NA	NA	<u>450</u> NA	<u>750</u> NA
2 (1144

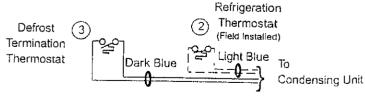
Standard Lighting

None

Electric Defrost - Standard







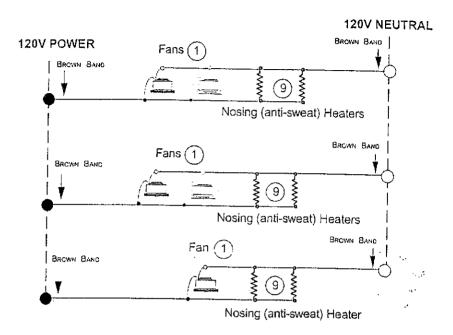
WARNING

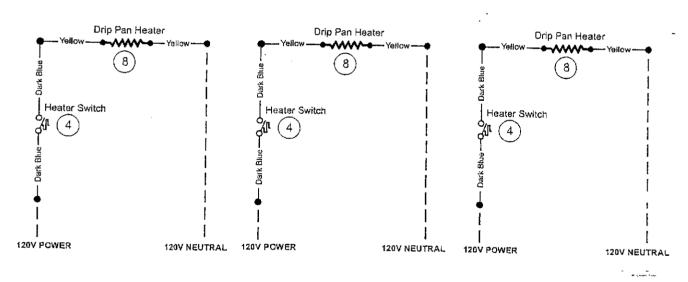
All components must have mechanical ground, and the merchandiser must be grounded.

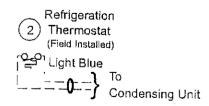
Circled Numbers = Parts List Item Numbers

Grayed components in 138 inch models only.

Gas Defrost - Optional







WARNING

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

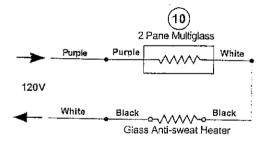
Circled Numbers = Parts List Item Numbers

Grayed components in 12 foot models only.

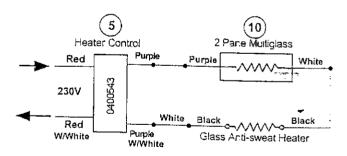
Glass Anti-sweat Heaters — Domestic & Export

Glass Anti-sweat Heater (Domestic) Glass Anti-sweat Heater (Export Only) LWUG-90 & LWUG-138 (Unitized) LWUG-90 & LWUG-138 (Unitized) (10)2 Pane Multiglass 2 Pane Multiplass White Purple o-VVVV-o Black Black 230V Glass Anti-sweat Heater **∽**^^∧∧ Glass Anti-sweat Heater 2 Pane Multiglass (10) 2 Pane Multiglass (10) White White White Black o MM o Black Black O-VVVV-o Black Glass Anti-sweat Heater Glass Anti-sweat Heater 2 Pane Multiglass (10) 5 10) White Heater Control 2 Pane Multiglass Purole Red White Black O Black White 0400543 Glass Anti-sweat Heater 230V White 120V White Black Red Black Purple W/White W/White Glass Arti-sweat Heater

Anti-sweat Heater (Domestic) LWUG Contour Ends



Anti-sweat Heater (Export Only) LWUG Contour Ends



WARNING

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

Circled Numbers = Parts List Item Numbers