PERFORMANCE DATA NO LOAD & NO DOOR OPENINGS AT 37°/0° CONTROL SETTING					
Type A with Run / Start Capacitor	65°F (18°C) Ambient		90°F (32°C) Ambient		
Operating Time	90 to 10	00%	100%		
Freezer Temperature	-5° to 2°F (-20	° to -17°C)	-1° to 3°F (-18° to -16°C)		
Refrigerator Temperature	34° to 39°F (1° to 4°C)	34° to 39°F (1° to 4°C)		
Low Side Pressure	-2 to 6 psig (-14 to 41 kPa)		-2 to 6 psig (-14 to 41 kPa)		
High Side Pressure (last 1/3 cycle)	85 to 105 psig (586 to 724 kPa)		120 to 135 psig (827 to 931 kPa)		
Wattage (last 1/3 cycle)	30 to	50	50 to 70		
Amps (running)	.4 to	.8	.7 to .9		
Base Voltage	115 vac (127 vac max)				
	DEFROST SPECIFICATIONS				
Cabinat Siza	Thermo	ostat	Heater		
Cabinet Size	Cut-in	Cut-out	Watts	Ohms	
26' & 28' SD, 23' CD	25°F (-4°C) 47°F (8°C)		500	26.5	
Electronic Timer - (ADC) Defrost 24 minutes every 6-96 hours of compressor run time.				ssor run	
CONDENSER FAN MOTOR					
Watts	RPM		Amps		
3.1	1100 CW Opposite Shaft		0.03 Running		
FREEZER ICE MAKER SPECIFICATIONS					
Electrical	Electrical 115 vac (127 vac max)				
Thermostat	Opens at 48°F (9°C), Closes at 15° F (-9°C)				
Heater Voltage 115 vac					
FREEZER ICE MAKER CONNECTOR PLUG CONNECTIONS					
Wire Number	Wire Color		Connects to:		
1	Green / Yellow		Ground		
2	Yellow		Water Valve		
3	Black		Line		
4	Light Blue		Neutral		

SERVICE DATA SHEET

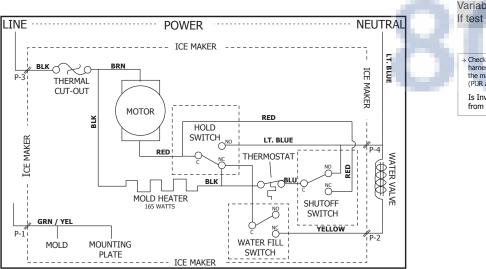
242321400 **ICE & WATER - AUTOMATIC DEFROST**

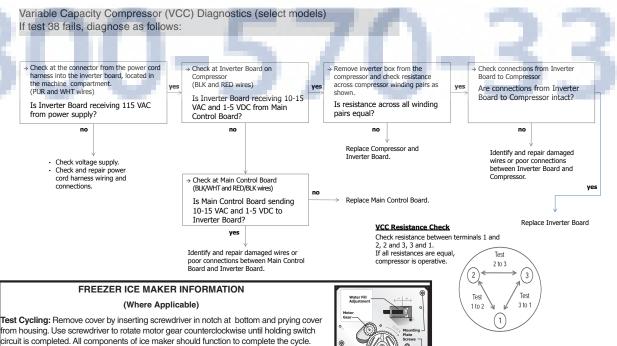
BOTTOM FREEZER - R134a

IMPORTANT: PLEASE RETURN THIS SHEET TO ITS ORIGINAL LOCATION.

Error Codes		Special Modes				
Display				Display		Activate/Deactivate
FZ	FF	Interpretation	Mode	FZ	FF	(press for up to 10 sec. simultaneously)
	OP	Open FF Thermistor	Manual Defrost	d	F	+ and - / same to deactivate
OP		Open FZ Thermistor	Display / Showroom	77	77	Λ and - / Power-on-Reset (POR)
	SH	Shorted FF Thermistor	Sabbath	Sb	Sb	V and + / same to deactivate
SH		Shorted FZ Thermistor	System Diagnostic	No FF or F all UI LEDs		Λ and V/ + to deactivate
SY	CF	UI to Main Control Board communication failure; on start up	FFIM Diagnostic	Numerical first test	display of	Λ and + together to activate / press and hold + to deactivate
SY	CE	UI Main Control Board communication error; after a period in operation	 Notes: Always check for pin back-outs, pinched or damaged wires before replacing components. Determine whether failure is caused by the component, main control board or wiring. Contact TID before replacing main control board. Refer to Service Manual for additional information. 			
SY	EF	Evaporator Fan Failure				

Fresh Food Ice Maker Diagnostic Mode				
Activate: Press ∧ and ∨ temperature pads for up to 10 sec. simultaneously. Press + or - to move forward or backward through tests.				
Deactivate: Press + for up to 10 sec. FFIM Diagnostic Mode will automatically deactivate after 5 min. of inactivity. NOTE: Silence alarm.			nostic Mode will automatically deactivate after 5 min. of inactivity.	
Test		To activate test	Passing Result	
52C	Ice Ma	aker Thermistor	Activates automatically	FZ display shows temperature sensed by Ice Maker Thermistor. "OP" if open; "SH" if short
55C	Water	Valve	Set	Remove ice tray to collect water into a measuring container to measure wa- ter fill. If collecting water into ice tray, first perform test 63C to empty ice tray
57C	57C Evaporator Fan (FFIM)		Set	"On" on FZ display when fan activated, "OFF" when deactivated.
58C		Activates automatically	Remove ice bucket. Allow bail arm to drop freely. Pass if no alarm when tray returns to "home" p Hold bail arm up. Pass if alarm sounds when tray returns to "home" p This test runs continuously until another test is selected.	
63C Twist Tray Set		Set	Remove ice bucket. FZ display shows "1" and "GOOD".	





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CAUTION

All electrical parts and wiring must be shielded from torch flame. DO NOT allow torch to touch insulation; it will char at 200°F and flash ignite (burn) at 500°F. Excessive heat will distort the plastic liner.

Water Fill Volume: The water fill adjustment screw will change the fill time. One full turn is equal to 20cc (.68 oz.). The correct fill is 102 to 130cc (3.4 to 4.3 oz.). When ater valve is replaced, the fill volume must be checked

4-UI Firmware → IMPORTANT SAFETY NOTE servicing this appliance.

IMPORTANT and properly secured.

	1 0	
Test		
	First Screen	
	Second Screen	
	Third Screen	
28	Dispenser Paddle	
1*	Standard Compre- and Condenser Fa	
2	Defrost Heater	
3	FF Light	
8	Water Valve (Dispenser)	
9	FZ Light	
10	Auger Motor	
11	Cube/Crush Solenoid	
41*	Perfect Temp Dra (PTD)	
12*	VCC Condenser	
38*	VCC Compresso	
15	Evaporator Fan	
36	Ice Chute Door	
22	Damper	
23	FF Door	
24	FZ Door	
26	Defrost Limit Swit	
29	FF Thermistor Mi level	
30	FZ Thermistor	
33	Ambient Thermis @ Main Board	
35*	FF Thermistor Upper-Level	

System Diagnostic Mode				
	ctivate: Press A and V for up to 10 sec. simultaneously.		,	
Deact	Deactivate: Press + for up to 10 sec. Diagnostic Mode will automatically deactivate after 5 min. of inactivity. Note: Silence alarm.			
 Tests marked with "*" may not be applicable to this unit and will not be displayed in System Diagnostic Mode. Tests displayed in diagnostic mode but not described below are for internal purposes only; advance through. View UI display for "on," "off," "CL," "OP," "SH," "LO," "HI" or numerical results of tests. Listen for operating sounds; feel for heat or air flow as appropriate to determine results of tests. 				
	Test	To activate test:	Passing result	
	First Screen		All LED lights on UI illuminated	
	Second Screen		All segments on UI temperature displays illuminated	
	Third Screen		Blank UI display, no lights illuminated, no shadowing	
28	Dispenser Paddle	Press disp. paddle	"on" on UI when depressed; "OF" when released	
1*	Standard Compressor and Condenser Fan	Set	Compressor and Condenser Fan running when "on"; stopped when "OF"	
2	Defrost Heater	Set	Defrost limit switch must be closed; verify "CL" in test 26. Feel for heat from defrost heater when "on". If "OP" in test 26, heater will not activate.	
3	FF Light	Set	With FF door open, FF lights on when "on"; off when "OF"	
8	Water Valve (Dispenser)	Set	Be prepared to collect water at dispenser. Water dispenses when "on"; stops when "OF"	
9	FZ Light	Set	With FZ door open, FZ lights on when "on", off when "OF"	
10	Auger Motor	Set	FF door must be closed. Motor running when "on"; motor stopped when "OF"	
11	Cube/Crush Solenoid	Set	FF door must be closed. Do not leave solenoid in activated state. Solenoid activated when "on", deactivated when "OF"	
41*	Perfect Temp Drawer (PTD)	Set	PTD UI illuminated when "on", off when "OF"	
12*	VCC Condenser Fan	Set	Fan running when "on"; stopped when "OF"	
38*	VCC Compressor	Set	Compressor running when "on"; stopped when "OF"	
15	Evaporator Fan	Set	Fan running for minimum of 10 sec. when "LO" or "HI"; stopped when "OF". Feedback failure if fan starts but runs less than 10 sec. Listen for speed change from "LO" to "HI".	
36	Ice Chute Door	Depress ice chute door or set	"OP" on UI when manually opened; "CL" when closed. Or, using "power on- off", "OP" on UI when solenoid activated, "CL" when deactivated	
22	Damper	Set	With inspection mirror, observe damper open when "OP"; closed when "CL"	
23	FF Door	Open/close FF door	"CL" on UI when door closed; "OP" when open	
24	FZ Door	Open/close FZ door	"CL" on UI when door closed; "OP" when open	
26	Defrost Limit Switch	Activates automatically	"CL" on UI when closed; "OP" when open	
29	FF Thermistor Mid- level	Activates automatically	UI shows temperature sensed by FF thermistor; pass if within 10°F of temperature measured with gauge at mid-level FF thermistor location. "OP-" if open; "SH-" if short	
30	FZ Thermistor	Activates automatically	UI shows temperature sensed by FZ thermistor; pass if within 10°F of temperature measured with gage at FZ thermistor location. "OP" if open; "SH" if short	
33	Ambient Thermistor @ Main Board	Activates automatically	UI shows temperature sensed at main board; pass if within +20°F/-10°F of temperature measured with gauge at main board location. "OP" if open; "SH" if short	
35*	FF Thermistor Upper-Level	Activates automatically	UI shows temperature sensed by upper level FF thermistor; pass if within 10°F of temperature measured with gauge at upper-level FF thermistor location. "OP" if open; "SH" if short	
34*	Ambient Thermistor @ UI	Activates automatically	UI shows temperature sensed at UI; pass if within +20°F/-10°F of temperature measured with gauge at UI location. "OP" if open; "SH" if short	
0-	Firmware Parameters	Set	Displays digit sequence; record	
2-	Main Board Firmware	Set	Displays digit sequence; record	
4-	UI Firmware	Set	Displays digit sequence; record	

The information provided herein is designed to assist qualified repair personnel only. Untrained persons should not attempt to make repairs due to the possibility of electrical shock. Disconnect power cord before

If any green grounding wires are removed during servicing, they must be returned to their original position

