

PERFORMANCE DATA NO LOAD & NO DOOR OPENINGS AT 0°F FREEZER & 37°F FRESH FOOD (2500 ++ ISO)					
Type A with Run / Start Capacitor	65°F (18°C) Ambient		90°F (32°C) Ambient		
	Variable Speed	Standard	Variable Speed	Standard	
Operating Time	74 to 84%	32 to 40%	100%	55 to 65%	
Freezer Temperature	-2° to 2°F (-19° to -17°C)	0° to 4°F (-18° to -16°C)	-1° to 3°F (-18° to -16°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)	34° to 39°F (1° to 4°C)	34° to 39°F (1° to 4°C)	
Low Side Pressure (cut-in)	5 to 12 psig (43 to 83 kPa)	5 to 12 psig (43 to 83 kPa)	N/A	5 to 12 psig (43 to 83 kPa)	
Low Side Pressure (cut-out)	-2 to 2 psig (-14 to 14 kPa)	-2 to 2 psig (-14 to 14 kPa)	-2 to 2 psig (-14 to 14 kPa)	-2 to 2 psig (-14 to 14 kPa)	
High Side Pressure (last 1/3 cycle)	90 to 105 psig (621 to 724 kPa)	90 to 115 psig (621 to 793 kPa)	120 to 135 psig (827 to 931 kPa)	130 to 155 psig (896 to 1069 kPa)	
Wattage (last 1/3 cycle)	50 to 60	90 to 130	60 to 70	100 to 140	
Amps (running)	0.5 to 0.9	0.7 to 1.1	0.6 to 1.0	0.8 to 1.2	
Base Voltage	115 vac (127 vac max)				
DEFROST SPECIFICATIONS					
Cabinet Size: 26' SD, 22' CD	Thermal Cutout		Heater		Defrost Thermistor Termination
	Cut-in	Cut-out	Watts	Ohms	Cut-out
	110°F (43.3°C)	135°F (57.2°C)	500	26.5	39°F (4°C)
Electronic Timer - (ADC) Defrost 24 minutes every 6-96 hours of compressor run time.					
CONDENSER FAN MOTOR					
	Watts	RPM	Amps		
	3.1	1100 CW Opposite Shaft	0.03 Running		

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.

SERVICE DATA SHEET

A02058901

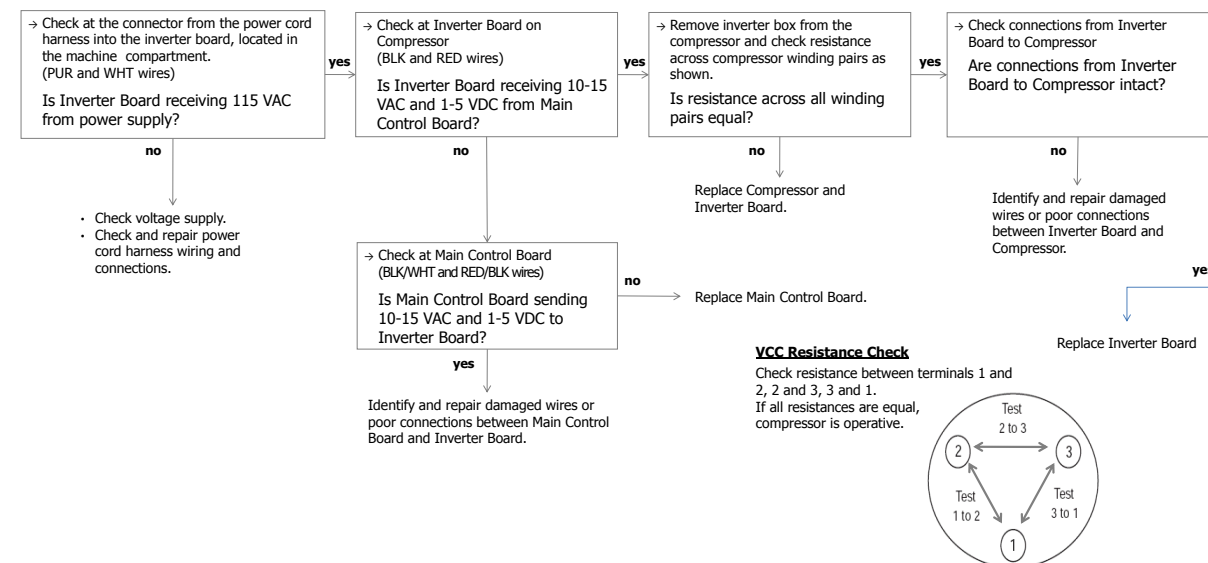
ICE & WATER - AUTOMATIC DEFROST SIDE BY SIDE - R134a

IMPORTANT: PLEASE RETURN THIS SHEET TO ITS ORIGINAL LOCATION.

ERROR CODES			SPECIAL MODES			
Display	Interpretation		Mode	Display		Activate/Deactivate (press for up to 10 sec. simultaneously)
FZ	FF			FZ	FF	
--	OP	Open FF Thermistor	Manual Defrost	d	F	FF+ and FF- / same to deactivate
OP	--	Open FZ Thermistor	Display / Showroom	77	77	FZ+ and FF- / Power-on-Reset (POR)
--	SH	Shorted FF Thermistor	Sabbath	Sb	Sb	FZ- and FF+ / same to deactivate
SH	--	Shorted FZ Thermistor	System Diagnostic	No FF or FZ display, all UI LEDs on.		FZ+ and FZ- / FF+ to deactivate
SY	CF	UI to Main Control Board communication failure; on start up	IM Diagnostic	Numerical display of first test		FZ+ and FF+ together to activate / FF+ to deactivate
SY	CE	UI to 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				

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

Variable Capacity Compressor (VCC) Diagnostics (select models) If test 38 fails, diagnose as follows:



SYSTEM DIAGNOSTIC MODE			
Activate:	Press FZ+ and FZ- for up to 10 sec. simultaneously. Press FF+ to advance through tests.		
Deactivate:	Press FF+ for up to 10 sec. Diagnostic Mode will automatically deactivate after 5 min. of inactivity. Note: Silence alarm.		
<ul style="list-style-type: none"> 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 on the inside of the door 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	--	Blank on both UI displays, no lights illuminated, no shadowing.
--	Second Screen	--	All LED lights on both UI displays illuminated.
--	Third Screen	--	Blank on both UI displays, no lights illuminated, no shadowing.
28	Dispenser Paddle	Press disp. paddle	"on" is displayed on the inside of door UI when depressed; "Water" is illuminated on Front UI; "off" when released.
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. "Cubes" is illuminated on Front UI.
46	Humidity Sensor	Activates automatically	"OP" if open, "SH" if short. Displays %RH. "Crushed" is illuminated on Front UI.
36	Ice Chute Door	Depress ice chute door or press Power On-Off	"OP" on UI when manually opened; "CL" when closed. Or, using "Power On-Off", motor will drive door open "OP" or closed "CL".
47	Dispenser Pocket Heater	Press Power On-Off	Heater on when "on", off when "off".
66	Dispenser Light	Press Power On-Off	Dispenser light on when "on", off when "off".
5-	Firmware Front UI	Press Power On-Off	Displays digit sequence; record.
6-	Factory Firmware Front UI	Press Power On-Off	Displays digit sequence; record.
1*	Standard Compressor and Condenser Fan	Press Power On-Off	Compressor and Condenser Fan running when "on", stopped when "off".
2	Freezer Defrost Heater	Press Power On-Off	Freezer defrost heater on when "on"; off when "off".
3*	FF Light (Incandescent Models)	Press Power On-Off	FF lights on when "on"; off when "off"
8	Water Valve (Dispenser)	Press Power On-Off	Be prepared to collect water at dispenser. Water dispenses when "on"; stops when "off".
9*	FZ Light (Incandescent Models)	Press Power On-Off	FZ lights on when "on", off when "off".
10	Auger Motor	Press Power On-Off	FZ door must be closed. Motor running when "on"; motor stopped when "off".
11	Cube/Crush Solenoid	Press Power On-Off	Do not leave solenoid in activated state. Solenoid activated when "on"; deactivated when "off".
12*	VCC Condenser Fan	Press Power On-Off	Fan running when "on"; stopped when "off".
38*	VCC Compressor	Press Power On-Off	Compressor running when "on"; stopped when "off".
13*	FF Light (LED Models)	Press Power On-Off	FF lights on when "on"; off when "off".
15	Evaporator Fan	Press Power On-Off	Stopped when "off". Listen for speed change from "LO" to "HI".
20*	FZ Light (LED Models)	Press Power On-Off	FZ lights on when "on", off when "off".
22	Damper	Press Power On-Off	With inspection mirror, observe damper open when "OP"; closed when "CL".
67	Fill Tube Heater	Press Power On-Off	Heater on when "on", off when "off".
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.
29	FF Thermistor	Activates automatically	UI shows temperature sensed by FF thermistor; pass if within 10°F of temperature measured with gauge at 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 gauge 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.
39	Evaporator Thermistor	Activates automatically	UI shows temperature sensed by evaporator thermistor; pass if within 10°F of temperature measured with gauge at evaporator thermistor location. "OP" if open; "SH" if short.
0-	Firmware Parameters	Press Power On-Off	Displays digit sequence; record.
2-	Main Board Firmware	Press Power On-Off	Displays digit sequence; record.
4-	UI Firmware	Press Power On-Off	Displays digit sequence; record.

IMPORTANT SAFETY NOTE

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 servicing this appliance.

IMPORTANT

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

