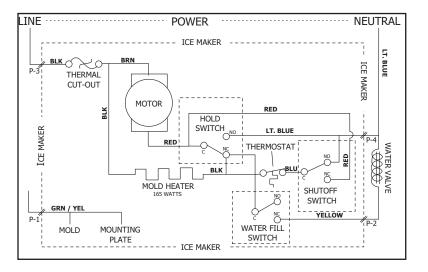
PERFORMANCE DATA NO LOAD & NO DOOR OPENINGS AT 37°/0° CONTROL SETTING							
Type A with Run / Start Capacitor	65°F (18°C)	Ambient	90°F (32°C) Ambient				
Operating Time	90 to 10	00%	100%				
Freezer Temperature	-5° to 2°F (-20°	° to -17°C)	-1° to 3°F (-18° to -16°C)				
Refrigerator Temperature	34° to 39°F (1	I° to 4°C)	34° to 39°F (1° to 4°C)				
Low Side Pressure	-2 to 6 psig (-14	4 to 41 kPa)	-2 to 6 psig (-14 to 41 kPa)				
High Side Pressure (last 1/3 cycle)	85 to 105 psig (58	6 to 724 kPa)	120 to 135 psig (827 to 931 kPa)				
Wattage (last 1/3 cycle)	30 to 5	50	50 to 70				
Amps (running)	.4 to .	8	.7 to .9				
Base Voltage	115 vac (127 vac max)						
DEFROST SPECIFICATIONS							
Cabinat Cina	Thermo	stat	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.							
	CONDENSER	FAN MOTOF	ł				
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	eater Voltage 115 vac						
FREEZER ICE I	MAKER CONNE	CTOR PLUG	CONNECTION	S			
Wire Number	Wire Co	olor	Connects to:				
1	Green / Y	ellow	Ground				
2	Yellov	N	Water Valve				
3	Black	<	Line				
4	Light B	lue	Neutral				



A 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

242199100

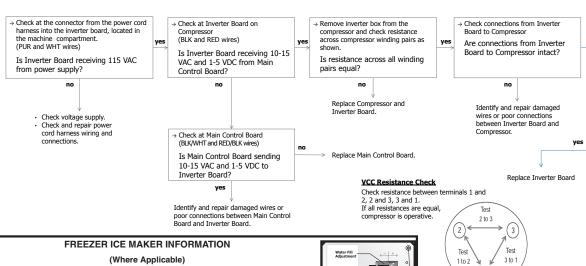
ICE & WATER - AUTOMATIC DEFROST BOTTOM FREEZER - R134a

IMPORTANT: PLEASE RETURN THIS SHEET TO ITS ORIGINAL LOCATION.

Error Codes		ror 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	FF UP and FF DOWN / same to deactivate
OP		Open FZ Thermistor	Display / Showroom	77	77	FZ UP and FF DOWN / Power-on-Reset (POR)
	SH	Shorted FF Thermistor	Sabbath	Sb	Sb	FZ DOWN and FF UP / same to deactivate
SH		Shorted FZ Thermistor	System Diagnostic	No FF or FZ display, all UI LEDs on.		FZ UP and FZ DOWN / FF UP to deactivate
SY	CF	UI to Main Control Board communication failure; on start up	FFIM Diagnostic	Numerical display of first test		FZ UP and FF UP together to activate / press and hold FF UP 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 FZ UP and FZ DOWN tempera Press FF UP or FF DOWN to move for				ature pads for up to 10 sec. simultaneously. orward or backward through tests.			
Deactivate: Press FF UP for up to 10 sec. Ff NOTE: Silence alarm.				Diagnostic Mode will automatically deactivate after 5 min. of inactivity.			
Test		To activate test	Passing Result				
52C	52C Ice Maker Thermistor		Activates automatically	FZ display shows temperature sensed by Ice Maker Thermistor. "OP" if open; "SH" if short			
55C	5C 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	C Evaporator Fan (FFIM)		Press power on-off	"On" on FZ display when fan activated, "OFF" when deactivated.			
58C	Ice Level Sensor 58C		Activates automatically	Remove ice bucket. Allow bail arm to drop freely. Pass if no alarm when tray returns to "home" posit Hold bail arm up. Pass if alarm sounds when tray returns to "home" posi This test runs continuously until another test is selected.			
63C	G3C 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:



■ 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.

System Diagnostic Mode

Passing result

Press FF UP to advance through tests.

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

inactivity. Note: Silence alarm.

 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

To activate test:

Press disp. paddle

Press power on-off

Open/close FF door

Open/close FZ door

Activates automatically

Depress ice chute door

or press power on-off

Activates automatically

Activates automatically

Activates automatically

Activates automatically

Press power on-off

Press power on-off

Press FZ UP and FZ DOWN temperature pads for up to 10 sec. simultaneously.

Press FF UP for up to 10 sec. Diagnostic Mode will automatically deactivate after 5 min. of

All LED lights on UI illuminated

FF door must be closed.

FF door must be closed.

All segments on UI temperature displays illuminated

blinking on FF display side to show location.

Be prepared to collect water at dispenser.

Water dispenses when "on"; stops when "off

PTD UI illuminated when "on", off when "off"

Fan running when "on"; stopped when "off"

speed change from "LO" to "HI".

"OP-" if open; "SH-" if short

OP" if open: "SH" if short

"OP" if open; "SH" if short

tion. "OP" if open; "SH" if short

Displays digit sequence; record

Displays digit sequence; record

Displays digit sequence; record

"on" on UI when depressed; "off" when released

Compressor running when "on"; stopped when "off"

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.

With FF door open, FF lights on when "on"; off when "off"

With FZ door open, FZ lights on when "on", off when "off"

FF door must be closed. Do not leave solenoid in activated state.

Fan running for minimum of 10 sec. when "LO" or "HI"; stopped when off". Feedback failure if fan starts but runs less than 10 sec. Listen for

With inspection mirror, observe damper open when "OP"; closed when "CL"

"OP" on UI when manually opened; "CL" when closed. Or, using "power on off", "OP" on UI when solenoid activated, "CL" when deactivated

UI shows temperature sensed by FZ thermistor; pass if within 10°F of temperature

UI shows temperature sensed at main board; pass if within +20°F/-10°F or

UI shows temperature sensed by upper level FF thermistor; pass if within

10°F of temperature measured with gauge at upper-level FF thermistor local

UI shows temperature sensed at UI; pass if within +20°F/-10°F of tempera

ture measured with gauge at UI location. "OP" if open; "SH" if short

emperature measured with gauge at main board location.

UI shows temperature sensed by FF thermistor; pass if within 10°F of

temperature measured with gauge at mid-level FF thermistor location.

Motor running when "on"; motor stopped when "off"

Solenoid activated when "on"; deactivated when "off"

Compressor running when "on"; stopped when "off"

"CL" on UI when door closed; "OP" when open

"CL" on UI when door closed; "OP" when open

"CL" on UI when closed: "OP" when oper

measured with gage at FZ thermistor location.

Blank UI display, no lights illuminated, no shadowing: "-" and "+"

IMPORTANT

Activate:

Deactivate:

28

10

11

41'

12*

383

22

23

24

26

29

33

35*

34*

0-

2-

First Screen

Third Screen

Standard

FF Light

FZ Light

Water Valve

(Dispenser)

Auger Motor

Cube/Crush

Perfect Temp Drawer

VCC Condenser Fan

VCC Compressor

Defrost Limit Switch

ce Chute Door

FZ Thermistor

FF Thermistor Mid-

Ambient Thermistor

Ambient Thermistor

@ Main Board

FF Thermistor

@ UI

Firmware

Parameters

Main Board

UI Firmware

Firmware

Evaporator Fan

Solenoid

(PTD)

Damper

FF Door

FZ Door

level

Compressor Defrost Heater

Second Screen

Dispenser Paddle

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

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 rater valve is replaced, the fill volume must be checked

Test Cycling: Remove cover by inserting screwdriver in notch at bottom and prying cover

m housing. Use screwdriver to rotate motor gear counterclockwise until holding switch

rcuit is completed. All components of ice maker should function to complete the cycle.

