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 100%	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)				

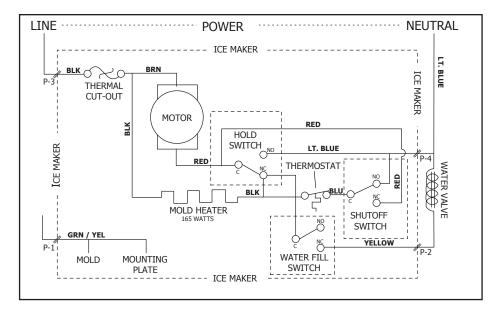
DEFROST	SPECIFICATIONS
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		Therma	al Cutout	Hea	ter	Defrost Thermistor Termination
Cabinet Size:		Cut-in	Cut-out	Watts	Ohms	Cut-out
27′ & 28′ SD, 22′ CD	Freezer	110°F (43.3°C)	135°F (57.2°C)	500	26.5	48°F (8°C)
	Fresh Food Ice Maker	110°F (43.3°C)	135°F (57.2°C)	70	188.9	68°F (20°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		
FREEZER ICE MAKER SPECIFICATIONS				

Electrical 115 vac (127 vac max) Thermostat Opens at 48°F (9°C), Closes at 15°F (-9°C) Heater Voltage 115 vac



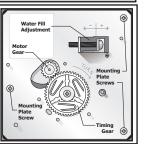


All electrical parts and wiring must be shielded from torch flame. DO NOT allow torch to touch insulation; it will char at 200°F and flash ignite (burn) at 500°F. Excessive heat will distort the plastic liner.

FREEZER ICE MAKER INFORMATION (Where Applicable)

Test Cycling: Remove cover by inserting screwdriver in notch at bottom and prying cover from housing. Use screwdriver to rotate motor gear counterclockwise until holding switch circuit is completed. All components of ice maker should function to complete the cycle.

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 a water valve is replaced, the fill volume must be checked.



SERVICE DATA SHEET

A06915801

ICE & WATER - AUTOMATIC DEFROST BOTTOM FREEZER - R134a

IMPORTANT: PLEASE RETURN THIS SHEET TO ITS ORIGINAL LOCATION.

ERROR CODES					SPECIAL	MODES	
Display		Interpretation	Mode	Dis	play	Activate	Deactivate
FZ	FF			FZ	FF	(press for up to 10	sec. simultaneously)
	OP	Open FF Cavity Thermistor	Manual Defrost	Manual Defrost d F		FF + and FF -	Same to deactivate
OP		Open FZ Cavity Thermistor	Demo / Showroom	Demo / Showroom 77 77 F2		FZ + and FF -	Unplug to deactivate
	SH	Shorted FF Cavity Thermistor	Sabbath	Sb	Sb	FZ - and FF +	Same to deactivate
SH		Shorted FZ Cavity Thermistor	System Diagnostic No FF or FZ display, all UI LEDs on		FZ + and FZ -	Press and hold FF + to deactivate	
SY	CF	UI to Main Board communication failure; on start up	Current Air Temps	Current Air Temps FZ Temp FF Temp		Default Settings and C/F	Automatically after 10 sec
SY	CE	UI to Main Board communication error; after a period in operation				Press and hold FF + to deactivate	
SY EF Freezer Evaporator Fan Failure 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.							
		FR	ESH FOOD ICE M	AKER DI	AGNOSTI	C MODE	
Activate: Press FZ + and FF + temperature pads for up to 10 sec. simultaneously.							

Press FF + or - to move forward or backward through tests.
Press FF + for up to 10 sec. FFIM 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)	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".

FRESH FOOD ICE MAKER FILL TIME ADJUSTMENT MODE

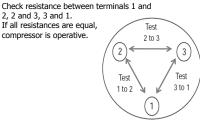
NOTE: First consider water filter condition before adjusting fill time.

Press FF + or - to adjust between the 3 fill settings.	
Deactivate: Exits automatically after 10 seconds, or press any button other than + or	

Pisplay FZ FF - Min Fill Time (default)	Externation Externationally after 10 seconds, or press any battern other trial 1 or 1			
FZ FF .	Dis	play	Dosesinkien	
- Min Fill Time (default)	FZ	FF	Description	
Till Till Cacada		-	Min Fill Time (default)	
IC = Mid Fill Time	IC	=	Mid Fill Time	
≡ Max Fill Time		Ξ.	Max Fill Time	

VCC COMPRESSOR MOTOR RESISTANCE CHECK

2, 2 and 3, 3 and 1. If all resistances are equal, compressor is operative.



	SYSTEM DIAGNOSTIC MODE
Activate:	Press FF + and - 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

- 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.

	Test	To activate test:	Passing result
	First Screen		Blank on both UI displays, no LEDs illuminated.
	Second Screen		All LEDs on both UIs illuminated.
	Third Screen		Blank UI display, no LEDs illuminated.
	+		
28	Dispenser Paddle	Press disp. paddle	"On" on UI when depressed; "off" when released. "Water" is illumina on front UI.
34	Ambient Thermistor @ UI	Activates automatically	UI shows temperature sensed at UI; Pass if within +20°F/-10°F of temperature measure with gauge at UI location. "OP" if open; "SH" if she "Cubes" is illuminated on front UI.
46	Humidity Sensor	Activates automatically	"OP" if open, "SH" if short. AC Heater System: Displays %RH. DC He System: "HI" - heater should be on. "Lo" - heater should be off. %RI displayed when humidity is between "Lo" and "HI" values; heater coube on or off. "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 "por on-off", motor 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".
6-	Front UI Firmware	Press Power On-Off	Displays digit sequence; record.
2	Freezer Defrost Heater	Press Power On-Off	Freezer defrost heater on when "on"; off when "off". Evaporator ther tor temperature is flashed. Watch for temp increase with the heater of the transparence of the tr
8	Water Valve (Dispenser)	Press Power On-Off	FF door must be closed. Be prepared to collect water at dispens Water dispenses when "on"; stops when "off".
10	Auger Motor	Press Power On-Off	FF door must be closed. Motor running when "on"; motor stopped when "
11	Cube/Crush Solenoid	Press Power On-Off	FF door must be closed. Do not leave solenoid in activated stat Solenoid activated when "on"; deactivated when "off".
12	Condenser Fan	Press Power On-Off	Fan running when "on"; stopped when "off".
43	Mullion Anticonden- sation Heater	Press Power On-Off	Flip mullion heater on when "on"; off when "off".
38	VCC Compressor	Press Power On-Off	Compressor running when "on"; off when "off".
13	FF Lights	Press Power On-Off	FF lights on when "on"; off when "off".
15	Freezer Evaporator Fan	Press Power On-Off	Press to toggle between "off", "LO" and "HI". A current sensor readir flashed (units are not mA). OFF reading should be around 2. "LO" sp reading should settle down to around 9. "HI" speed reading should s down above 40.
20	FZ Lights	Press Power On-Off	FZ lights on when "on", off when "off".
22	Damper	Press Power On-Off	Perform test 15 and set fan to "HI". Then check for air flow when op "OP"; and no air leaks when closed "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	Ice Maker Defrost Heater	Activates automatically	Heater is turned on automatically. The ice maker evaporator thermis temperature is flashed. Watch for temp increase with the heater on. may take a few minutes for the evaporator to heat up.
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/- of temperature measured with gauge at main board location. "OP" if open; "SH" if short.
39	Freezer Evaporator Thermistor	Activates automatically	UI shows temperature sensed by freezer evaporator thermistor; pass within 10°F of temperature measured with gauge at evaporator ther tor location. "OP" if open; "SH" if short.
45	Ice Maker Mold Thermistor	Activates automatically	UI shows temperature sensed at ice maker; pass if within +20°F/-10 of temperature measured with gauge at ice maker mold. "OP" if ope "SH" if short.
68	Ice Maker Evaporator Thermistor	Activates automatically	UI shows temperature sensed by evaporator thermistor; pass if with 10°F of temperature measured with gauge at evaporator thermistor tion. "OP" if open; "SH" if short.
0-	Firmware Parameters	Press Power On-Off	Displays digit sequence; record.
1-	Main Board Firmware	Press Power On-Off	Displays digit sequence; record.
	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

