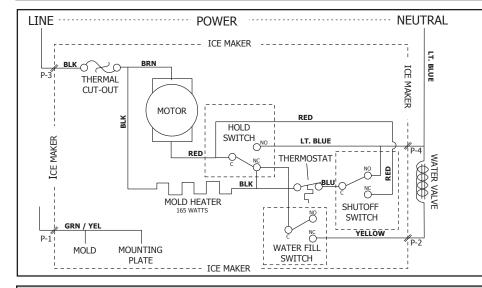
PERFORMANC		OAD & NO E		NGS AT 37°/	<b>0</b> °
Type A with Run / Start Capacitor	65°F (18°C) Ambient		90°F (32°C) Ambient		
Operating Time	90 to	100%	100%		
Freezer Temperature	-5° to 2°F (-20° to -17°C)		-1° to 3°F (-18° to -16°C)		
Refrigerator Temperature	34° to (1° to	) 39°F ) 4°C)	34° to 39°F (1° 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)		°		
	DEFROS	T SPECIFIC	ATIONS		
	Thorma	I Cutout	Но	ater	Defrost
Cabinet Size:	merma	outout		ater	Heater Termination
	Cut-in	Cut-out	Watts	Ohms	Heater
Cabinet Size: 27' & 28' SD, 22' CD				 r	Heater Termination
	Cut-in 110°F (43.3°C)	Cut-out 135°F	Watts 500	Ohms	Heater Termination Cut-out 48°F
	Cut-in 110°F (43.3°C) CONDE	Cut-out 135°F (57.2°C)	Watts 500	Ohms	Heater Termination Cut-out 48°F
27' & 28' SD, 22' CD	Cut-in 110°F (43.3°C) CONDE RF 1100	Cut-out 135°F (57.2°C) <b>NSER FAN N</b>	Watts 500	Ohms 26.5	Heater Termination Cut-out 48°F (8°C)
27' & 28' SD, 22' CD Watts 3.1	Cut-in 110°F (43.3°C) CONDE RF 1100	Cut-out 135°F (57.2°C) NSER FAN N PM 0 CW te Shaft	Watts 500	Ohms 26.5 Amps 0.03 Running	Heater Termination Cut-out 48°F (8°C)
27' & 28' SD, 22' CD Watts 3.1	Cut-in 110°F (43.3°C) CONDE RF 1100 Opposit	Cut-out 135°F (57.2°C) NSER FAN M PM O CW te Shaft MAKER SPE	Watts 500	Ohms 26.5 Amps 0.03 Running	Heater Termination Cut-out 48°F (8°C)
27' & 28' SD, 22' CD Watts 3.1	Cut-in 110°F (43.3°C) CONDE RF 1100 Opposi REEZER ICE 115 vac (127 v	Cut-out 135°F (57.2°C) NSER FAN N M YM O CW te Shaft MAKER SPE vac max)	Watts 500	Ohms 26.5 Amps 0.03 Running	Heater Termination Cut-out 48°F (8°C)



# 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.

## 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.



## A06031201

Activate:

**FREEZER ICE MAKER - AUTOMATIC DEFROST BOTTOM FREEZER - R134a** 

### IMPORTANT: PLEASE RETURN THIS SHEET TO ITS ORIGINAL LOCATION.

	ER	ROR CODES			SPECI	AL MODES	
Dis	play	Interpretation	Mode	Display		Activate Deactiva	
FZ	FF	]		FZ	FF	(press for up to 10	sec. simultaneously)
	OP	Open FF Cavity Thermistor	Manual Defrost	d	F	FF + and FF -	Same to deactivate
OP		Open FZ Cavity Thermistor	Demo / Showroom	77	77	FZ + and FF -	Unplug to deac- tivate
	SH	Shorted FZ Cavity Thermistor	Sabbath	Sb	Sb	FZ - and FF -	Same to deactivate
SH		Shorted FZ Thermistor	System Diagnostic	Blank UI display, no LEDs illumi- nated		FZ + and FZ -	Press and hold FF + to deactivate
SY	CF	UI to Main Board com- munication failure; on start up	Current Air Temps	FZ Temp	FF Temp	Default Settings and Temp Mode Buttons	Automatically after 10 seconds
SY	CE	Ul to Main Board com- munication error; after a period of operation	replacing compon	ents.		hed or damaged wires	
SY	EF	Freezer Evaporator Fan Failure	<ul> <li>Determine whether failure is caused by the component, main control board or wiring Contact TID before replacing main control board.</li> <li>Refer to Service Manual for additional information.</li> </ul>				

VCC COMPRESSOR MOTOR RESISTANCE CHECK Check resistance between terminals 1 and 2, 2 and 3, 3 and 1. If all resistances are equal, Tes compressor is operative. 2 to 3

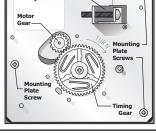
Service Mode For Perfec	t Temp™ Drawer				
Activation This mode is accessible only when the drawer is in OFF mode. Press and hold the temperature decrease key (-) and the temperature increase key (+) for 5 seconds. Deactivation Press and hold the tempera- ture (+) key for 5 seconds, or no keys pressed in 5 minutes returns to the OFF mode of operation.	Test Operation The up/down buttons will be used to navigate through the tests and the ON/OFF button will be used to initiate the displayed test. Fan Test Display shows "F1" for fan on or "F0" for fan off. Heater Test Display shows "H1" for heater ON or "H0" for heater OFF.	Damper Test Display shows "d1" for damper open, or "d0" for damper closed. Damper movement may take 30 seconds. To Test Damper 1. Remove drawer. 2. Start damper test. 3. Observe damper moving open and closed. 4. Exit damper test.	Report NTC Temperature Test Display shows "b1" for chamber sensor test. The UI display will show — °F until the main board responds with asso- ciated sensor temperature reading. Display Test "L0" for display test. The display test will cycle through all the display seg- ments with a minimal on time for each segment.		
Fault Codes Listed on Diagram Sheet					

Deactivate:		Press FF UP for up to 10 sec. Diagnostic Mode will automatically deactivate after 5 min. of inactivity. Note: Silence alarm.				
• Tes • Viev	ts displayed in diagnos w UI display for "on," "o	tic mode but not describe off," "CL," "OP," "SH," "LO	unit and will not be displayed in System Diagnostic Mode. d below are for internal purposes only; advance through. ," "HI" or numerical results of tests. a appropriate to determine results of tests.			
Liot	Test	To activate test:	Passing result			
	First Screen		Blank UI display, no LEDs illuminated.			
	Second Screen		All LED lights on UI illuminated.			
	Third Screen		Blank UI display, no LEDs illuminated.			
	Humidity Sensor	Activates automatically				
46	numially Sensor	Activates automatically	"OP" if open, "SH" if short. AC Heater System: Displays %RH. DC Heater System: "HI" - heater should be on. "Lo" - heater should be off. %RH is displayed when humidity is between "Lo" and "HI" values; heater could be on or off.			
2	Freezer Defrost Heater	Press power on-off	Freezer defrost heater on when "on"; off when "off". Evaporator therm tor temperature is flashed. Watch for temp increase with the heater or It may take a few minutes for the evaporator to heat up.			
3	FF Lights powered by external board	Press power on-off	FF lights on when "on"; off when "off"			
12	Condenser Fan	Press power on-off	Fan running when "on"; stopped when "off"			
41	Perfect Temp Drawer (PTD)	Press power on-off	PTD UI illuminated when "on"; off 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 on when "on"; off when "off"			
15	Freezer Evapora- tor Fan	Press power on-off	Press to toggle between "off", "Lo" and "HI". A current sensor reading flashed (units are not mA). OFF reading should be around 2. "Lo" spee reading should settle down to around 9. "HI" speed reading should settle down above 40.			
20	FZ Lights	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			
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	Ul 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	Ul 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	Ul shows temperature sensed at main board; pass if within +20°F/-10 of temperature measured with gauge at main board location. "OP" if open; "SH" if short			
34	Ambient Thermistor @ UI	Activates automatically	Ul shows temperature sensed at UI; pass if within +20°F/-10°F of tem perature measured with gauge at UI location. "OP" if open; "SH" if sho			
39	Freezer Evaporator Thermistor	Activates automatically	y UI shows temperature sensed by freezer evaporator thermistor; pa within 10°F of temperature measured with gauge at evaporator the location. "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			
3-	UI Firmware	Press power on-off	Displays digit sequence; record			



IMPORTANT

properly secured.



#### SYSTEM DIAGNOSTIC MODE

Press FZ UP and FZ DOWN for up to 10 sec. simultaneously. Press FF UP to advance through tests.

#### 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.

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

