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				

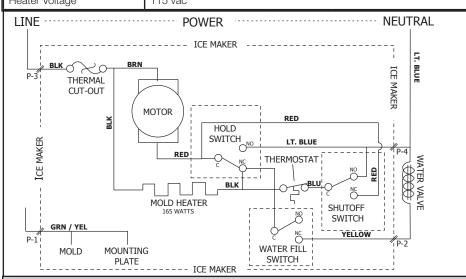
Cabinet Size:	Thermal Cutout		Heater		Defrost Heater Termination
27' & 28' SD, 22' CD	Cut-in	Cut-out	Watts	Ohms	Cut-out
27 420 05, 22 05	110°F (43.3°C)	135°F (57.2°C)	500	26.5	48°F (8°C)

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 1100



A CAUTION

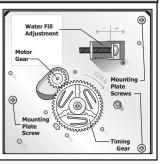
All electrical parts and wiring must be shielded from torch flame. DO NOT allow torch to touch insulation; it will char at 200°F and flash ignite (burn) at 500°F. Excessive heat will distort the plastic liner.

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.



SERVICE DATA SHEET

A06031201

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

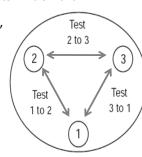
IMPORTANT: PLEASE RETURN THIS SHEET TO ITS ORIGINAL LOCATION.

	ER	ROR CODES			SPECIA	AL MODES	
Dis	play	Interpretation	Mode	Display		Activate	Deactivate
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 / Show- room	77	77	FZ + and FF -	Unplug to deactivate
	SH	Shorted FZ Cavity Thermistor	Sabbath	Sb	Sb	FZ - and FF +	Same to deactivate
SH		Shorted FZ Thermistor	System Diag- nostic	Blank UI dis- play, no LEDs illuminated		FZ + and FZ -	Press and hold FF + to deactivate
SY	CF	UI to Main Board communication failure; on start up	Current Air Temps	FZ Temp	FF Temp	Default Settings and Temp Mode Buttons	Automatically after 10 seconds
SY	CE	UI to Main Board communication error; after a period of 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				
SY	EF	Freezer Evaporator Fan Failure	board or wiring. Contact TID before replacing main control board. • Refer to Service Manual for additional information.				

VCC COMPRESSOR MOTOR RESISTANCE CHECK

Check resistance between terminals 1 and 2, 2 and 3, 3 and 1.

If all resistances are equal, compressor is operative.



Service Mode For Perfect Temp™ Drawer

Activation

This mode is accessible only when the drawer is in OFF mode. Press and hold the temperature decrease key (-) | the ON/OFF button will and the temperature increase key (+) for 5 seconds.

Deactivation

Press and hold the temperature (+) 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 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

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.

Display Test "L0" for display test. The display test will cycle through all the display segments with a minimal on

Report NTC

Temperature Test

Display shows "b1" for

chamber sensor test. The UI

display will show -°F until

the main board responds

with associated sensor

temperature reading.

time for each segment.

Fault Codes Listed on Diagram Sheet

SYSTEM DIAGNOSTIC MODE				
Activate:	Activate: Press FZ UP and FZ DOWN for up to 10 sec. simultaneously. Press FF UP to advance through tests.			
Deactivate:	Press FF UP 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		Blank UI display, no LEDs illuminated.
	Second Screen		All LED lights on UI illuminated.
	Third Screen		Blank UI display, no LEDs illuminated.
46	Humidity 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 thermistor temperature is flashed. Watch for temp increase with the heater on. 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 Anticon- densation 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 Evaporator Fan	Press power on-off	Press to toggle between "off", "Lo" and "HI". A current sensor reading is flashed (units are not mA). OFF reading should be around 2. "Lo" speed 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	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
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
39	Freezer Evapora- tor Thermistor	Activates automatically	Ul shows temperature sensed by freezer 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
1-	Main Board Firmware	Press power on-off	Displays digit sequence; record
3-	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.

