

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	74 to 84%	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 (cut-in)	5 to 12 psig (34 to 83 kPa)	N/A
Low Side Pressure (cut-out)	-2 to 2 psig (-14 to 14 kPa)	-2 to 2 psig (-14 to 14 kPa)
High Side Pressure (last 1/3 cycle)	85 to 95 psig (586 to 655 kPa)	120 to 135 psig (827 to 931 kPa)
Wattage (last 1/3 cycle)	45 to 55	60 to 70
Amps (running)	.6 to 1.1	.7 to .9
Base Voltage	115 vac (127 vac max)	

DEFROST SPECIFICATIONS				
Cabinet Size	Thermostat		Heater	
	Cut-in	Cut-out	Watts	Ohms
26' & 28' SD, 23' CD	25° F (-4° C)	47° F (8° C)	500	31

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

ICE MAKER SPECIFICATIONS	
Electrical	115 vac (127 vac max)
Thermostat	Opens at 48° F (9° C), Closes at 15° F (-9° C)
Heater Voltage	85 vac

ICE MAKER CONNECTOR PLUG CONNECTIONS		
Wire Number	Wire Color	Connects to:
1	Green/Yellow	Ground
2	Yellow	Water Valve
3	Black	Line
4	Light Blue	Neutral

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.

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.

NOTE

This product comes equipped with an Adaptive Defrost Control (ADC). To activate manual defrost, simultaneously press and hold the Fresh Food up (+) and Fresh Food down (-) keys for 5 seconds. A “d” in the freezer temperature window and “F” in the refrigerator temperature window will display when the heater is activated. To deactivate manual defrost, simultaneously press and hold the Fresh Food up (+) and Fresh Food down (-) keys for 5 seconds. A “d” and “F” will be displayed until the defrost cycle is complete.

IMPORTANT

PLEASE RETURN THIS SHEET TO IT’S ORIGINAL LOCATION.

SERVICE DATA SHEET

240389643

ICE & WATER - AUTOMATIC DEFROST BOTTOM FREEZER - R134a

Ice Maker Errors Displayed on “UI”				Diagnostic Mode		Note:	See Service Manual for complete description.
ERROR			Test	Activate: Hold FF (+) and FZ (+) for 5 sec.			
Ice	Er	IM/RAM Error (on POR only)Detection – on POR only. This error is detected as “no com/data link with IM” by ERF 2500++ system controller (PB).	48C	Freezer Recover Mode, “1” ok “Fr” Recovery mode, Icemaker in “off” state. (See Note)	57C	Fan test, on or off	
Ice	IP	Invalid Protocol (this error is detected when the version of I/M pcb does not match version of 2500++ system controller)	49C	EEV On=Open Off=Closed , EEV must be in the open state for sealed system evacuation.	58C	Ice level sensor switch test	
Ice	CE	IM Com Lost only after POR(no communication between the I/M pcb and the 2500++ system controller.)	50C	Com Link “1” ok “ER” error	59C	Fill limit switch test (See Note)	
Ice	I3	TH3 Error (open or short) This error is detected when the thermister has failed on the suction line of the I/M.	51C	TH1 Status “1” ok “ER” Replace	60C	Freeze limit switch test (See Note)	
			52C	TH3 Status “1” ok “ER” Replace	61C	IM evap heater test	
			54C	Mold heater test, on or off	62C	EEV test	
			56C	Finger evap heater, on or off	63C	Harvest motor system test (See Note)	
			55C	Water valve test (See Note)	64C	Software version	
				De-activate: Hold FF (+) for 5 sec.			
System Error Codes Displayed on “UI”				Diagnostic Mode		Note:	See Service Manual for complete description.
ERROR			Test	Activate: FZ (+) and FZ (-) for 5 sec.			
OP or 2		Freezer Sensor OPEN	1	Standard compressor	22	Damper	
SH or 3		Freezer Sensor SHORTED	2	Defrost heater	23	Fresh food door	
OP or 2		FF Sensor OPEN	3	FF lighting	24	Freezer door	
SH or 3		FF Sensor SHORTED	8	Water valve,water disp.	26	Defrost limit switch	
SY	EF	Evaporator Fan Circuit	9	FZ lighting	28	Dispenser paddle	
SY	CE	Communication error	10	Auger motor	36	Ice door	
SY	CF	Communication error	11	Cube/crush solenoid	29	FF Thermistor	
	dF	In Manual Defrost	41	Perfect Temp Drawer	30	FZ Thermistor	
			12	VCC Condensor fan	33	Ambient Thermistor	
			38	VCC Compressor	0-	Software version	
To initiate manual defrost press and hold, for 5 sec. FF(+) and FF(-), (d) and (f) will be displayed.			15	Evaporator fan			
				De-activate: Hold FF (+) for 5 sec.			

FREEZER ICE MAKER INFORMATION

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.



