PERFO	DRMANCE DAT		& NO DOOF	R OPEN	INGS	AT 37°/0°	
Type A with Rur	/ Start Capacitor	65°F (18°C	90°F (32°C) Ambient				
Operating Time	'	70 to	90 to 100%				
Freezer Tempera	ature	-6° to (-21° to	-6° to 6°F (-21° to -14°C)				
Refrigerator Ten	nperature	34° to (1° to	34° to 44°F (1° to 7°C)				
VCZ Temperatur	re	-6° to -21° t	-6° to 45°F -21° to 7°C				
Low Side Pressu	ıre	-1 to 3 psig (98 to 124 kPa)			.8 to 3 psig (107 to 120 kPa)		
High Side Pressi (last 1/3 cycle)	ure	69 to 8 (577 to 6	117 to 128 psig (907 to 982 kPa)				
Wattage (last 1/	/3 cycle)	45 to	54 to 74				
Amps (running)		.7 to	.8 to 1.1				
Base Voltage		115 vac (127 va					
		DEFROST SP	ECIFICATION	ONS			
		Thermal Cutout		Heater		Defrost Thermistor Termination	
		Cut-	Watts	Ohms	Cut-out		
Cabinet Size: 22' CD	Freezer	162°F (258 +/- 5	51.3 +/- 5	48°F (8°C)		
	Fresh Food				38°F (3°C)		
	Fresh Food Ice Maker	162°F (70 +/- 5	189 +/- 5	61°F (16°C)		
Electronic Timer	r - (ADC) Defrost 3	4 minutes every 1	12-96 hours of c	ompresso	r run tim	e.	
		CONDENSE	R FAN MOT	OR			
W	atts	RP	М		Amps		
.75 1.25		1100 ± 100 40 L/S					
Nominal Input Power (W) @ 80% Duty	Max Input Power (W)	Speed (R/ Min) *@80% Duty @ 100%	Air Flow in Free Air (0 Pa)	.104 A Max (@12V DC/20°C)		(@12V DC/20°C)	

	ERF	ROR CODES	SPECIAL MODES						
Dis	play	T-toto	Mode	Display			Activate	Deactivate	
FZ	FF	Interpretation	Mode	FZ	FF	Other			
Er	t1	Fzr Temp Sensor Open/Shorted	Manual Defrost	d F			Fz + (^) and FF + (^) for 10 secs	Any Key	
Er	t2	Fzr Defrost Sensor Open/Shorted	Demo / Showroom			Demo Light On	Fz + (^) and FF - (v) for 10 secs	Fz + (^) and FF - (v) for 10 secs	
Er	t3	FF Temp Sensor Open/Shorted	Sabbath Sb Sb			Fz - (v) and FF + (^) for 5 secs	Fz - (v) and FF + (^) for 5 secs		
Er	t4	FF Defrost Sensor Open/Shorted	System Diagnostics			All LEDs Lit	Fz + (^) and Fz- (v) for 10 secs	Fz + (^) and Fz- (v) for 10 secs	
Er	t5	VCZ Temp Sensor Open/Shorted							
Er	t6	Ice Maker Tray Sen- sor Open/Shorted	Notes: Always check for pin back-outs, pinched or damaged wires before replacing components. Determine whether failure is caused by the com-						
Er	CE	Communication Error UI to Main Board	ponent, main control board or wiring. Contact TID before replacing main control board. Refer to Service Manual for additional information.						
dl	SP	Chute Flapper Not Closed							

FRESH FOOD ICE MAKER FILL TIME ADJUSTMENT MODE							
NOTE: First co	NOTE: First consider water filter condition before adjusting fill time.						
Activate:	Press Cube and Cr	ush keys for 10 secs. Press FZ + (^) or - (v) key to adjust (1-4).					
Deactivate:	Resets to Normal (Operation after 10 secs					
Setting #	Pressure Condition	Fill Time					
1	Very Low	8 seconds					
2	Low	6.5 seconds					
3	Normal	5.5 seconds					
4	Very High	5 seconds					

SERVICE DATA SHEET

A15500201

ICE & WATER - AUTOMATIC DEFROST BOTTOM FREEZER - R134a

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.

IMPORTANT: PLEASE RETURN THIS SHEET TO ITS ORIGINAL LOCATION.

	SYSTEM DIAGNOSTIC MODE								
Activate:									
Deactivat									
FZ Display	Test	Activation/ Deactivation	FF Display	Passing result					
	First Screen			All LEDs on UI illuminated.					
	Second Screen		on oF	Blank UI display, no LEDs illuminated. Freezer Defrost Sensor Temp displayed in FF display. Increase in temp should be noticed.					
2	Freezer Defrost Heater	Press Cube button	on, oF, Temperature	Preezer Derrost Sensor temp displayed in PP display. Increase in temp should be noticed.					
8	Main Water Valve	Press Cube button	on, oF	"on" when on and "oF" when off. ***Valve will not shut off automatically. Test has to be turned off with Cube button.					
11	Cube/Crush Solenoid	Press Cube button	on, oF	F display shows "on" when on and "oF" when off. Cube solenoid will activate. Do not leave on for more than 1 minute.					
53	Dispenser Water Valve	Press Cube button	on, oF	n" when on and "oF" when off. ***Valve will not shut off automatically. Test has to be turned off with Cube button.					
56	Ice Maker Water Valve	Press Cube button	on, oF	"when on and "oF" when off. ***Valve will not shut off automatically. Test has to be turned off with Cube button.					
71	Fresh Food Defrost Heater	Press Cube button	on, oF, Temperature	ssh Food Defrost Sensor Temp displayed in FF display. Increase in temp should be noticed.					
72	Fresh Food IM Defrost Heater	Press Cube button	on, oF, Temperature	Fresh Food IM Defrost Sensor Temp displayed in FF display. Increase in temp should be noticed.					
74 79	VCZ Balance Heater Fill Tube Heater	Press Cube button Press Cube button	on, oF on, oF	"on" when on and "oF" when off. Maximum run time of 5 minutes for this test. "on" when on and "oF" when off. Maximum run time of 5 minutes for this test.					
10	Auger Motor	Press Cube button	on, oF	"on" when on and "of" when off.					
13	Fresh Food Light	Press Cube button	on, oF	"on" when on and "oF" when off. Open Door to check status of light.					
14	VCZ Light	Press Cube button	on, oF	"on" when on and "oF" when off. Open Door to check status of light.					
15	Freezer Evaporator Fan	Press Cube button	on, Mi, oF	Fan runs at 3 speeds: Max speed when "on", medium speed when "Mi", and stopped when "oF".					
17	VCZ Fan	Press Cube button	on, Mi, oF	Fan runs at 3 speeds: Max speed when "on", medium speed when "Mi", and stopped when "oF".					
18	Condenser Fan	Press Cube button	on, Mi, oF	Fan runs at 3 speeds: Max speed when "on", medium speed when "Mi", and stopped when "oF".					
20	Freezer Light	Press Cube button	on, oF	"on" when on and "oF" when off. Open Door to check status of light.					
38	VCC Compressor	Press Cube button	on, oF	"on" at full speed when on and "oF" when off.					
47	Ice Chute Heater	Press Cube button	on, oF	"on" when on and "oF" when off.					
62	Ice Maker Evap Fan	Press Cube button	on, oF	"on" when on and "oF" when off.					
63	Flip Mullion Heater (DC)	Press Cube button	on, oF	"on" when on and "oF" when off.					
66	Dispenser Light	Press Cube button	on, oF	"on" when on and "oF" when off.					
70 76	Fresh Food Evap Fan	Press Cube button	on, Mi, oF	Fan runs at 3 speeds: Max speed when "on", medium speed when "Mi", and stopped when "oF". "on" when on and "oF" when off.					
- 1	VCZ Damper Heater	Press Cube button	on, oF OP, CL,	When activated, the freezer evaporator fan will run at high speed. "OP" when damper is open. "CL" when damper is closed. "1" will flash when damper is moving.					
77	VCZ Damper	Press Cube button	Flashing "1"						
36	Ice Chute Flapper Motor	Press Cube button	OP, CL, Flashing "1"	"OP" when chute door is open. "CL" when chute door is closed. "1" will flash when chute door is moving. "ER" will display if the door does not open or close.					
50	Ice Maker Harvest Test Ice Maker Bail	Press Cube button	"Go", Flashing "1" "Em", Fu",	Remove bucket to see rotation of tray. "Go" will be shown in the FF display when the tray is in the horizontal (home) position. A Flashing "1" will be displayed when the tray is moving. If an error is detected "ER" will be displayed. Remove bucket to test. Allow bail arm to drop, "Em" will be displayed when tray returns to horizontal (home) position. A Flashing "1" will be displayed when tray returns to horizontal (home) position. A Flashing "1" will be displayed when tray returns to horizontal (home) position. A Flashing "1" will be displayed when tray returns to horizontal (home) position. A Flashing "1" will be displayed when tray returns to horizontal (home) position. A Flashing "1" will be displayed when tray returns to horizontal (home) position. A Flashing "1" will be displayed when tray returns to horizontal (home) position. A Flashing "1" will be displayed when tray returns to horizontal (home) position. A Flashing "1" will be displayed when tray returns to horizontal (home) position. A Flashing "1" will be displayed when tray returns to horizontal (home) position. A Flashing "1" will be displayed when tray returns to horizontal (home) position. A Flashing "1" will be displayed when tray returns to horizontal (home) position. A Flashing "1" will be displayed when tray returns to horizontal (home) position.					
78	Arm Test	Press Cube button	Flashing "1"	Fe display will show the temperature of the corresponding evaporator defrost sensor. A drop in temperature should be noted. "03" is the OP postion. All evaporators should have refrigerant flow and the FF defrost sensor temp will be displayed.					
61	Stepper Motor Valve	Press Cube button	"03", "00", "01", "02", Flashing "1", Temperature	the CL position. The IM defrost sensor temperature will be shown in the FF display. Temperature should not drop-position. The IM defrost sensor temperature will be shown in the FF display. A drop in temperature should be noted. "02" is the FF/IM/FZ evaporator position. The FF display while the valve is moving from position to position.					
23	Fresh Food Door Switch	Open/Close the Door	"CL", "OP"	When the FF door is opened, an "OP" will be shown in the FF display. When the FF door is closed, a "CL" will be showin in the FF display.					
24		Open/Close the Door	"CL", "OP"	When the FF door is opened, an "OP" will be shown in the FF display. When the FF door is closed, a "CL" will be showin in the FF display.					
25	VCZ Drawer Switch	Open/Close the Door	"CL", "OP"	When the FF door is opened, an "OP" will be shown in the FF display. When the FF door is closed, a "CL" will be shown in the FF display.					
28	Dispenser Paddle	Press the Dispenser Paddle	on, oF	When the paddle is pressed, "on" will be displayed in the FF display. When the paddle is released, or not pressed, "of" will be displayed in the FF display.					
29	Fresh Food Sensor		current tempera- ture, "OP", "SH"	No activation needed. FF display will show current sensor temperature. "OP" will show if the sensor is open. "SH" will show if the sensor is shorted.					
30	Freezer Sensor Fresh Food		current tempera- ture, "OP", "SH" current tempera-	No activation needed. FF display will show current sensor temperature. "OP" will show if the sensor is open. "SH" will show if the sensor is shorted. No activation needed. FF display will show current sensor temperature. "OP" will show if the sensor is open. "SH" will show if the sensor is shorted.					
31	Defrost Sensor		ture, "OP", "SH" current tempera-	No activation needed. Fresh food display will show current sensor temperature. "OP" will show if the sensor is open. "SH" will show if the sensor is shorted. No activation needed. FF display will show current sensor temperature. "OP" will show if the sensor is open. "SH" will show if the sensor is shorted.					
32	VCZ Sensor Ambient		ture, "OP", "SH"	No activation needed. FF display will show current sensor temperature. "OP" will show if the sensor is open. "SH" will show if the sensor is shorted.					
33	Temp Sensor Freezer		ture, "OP", "SH" current tempera-	No activation needed. FF display will show current sensor temperature. "OP" will show if the sensor is open. "SH" will show if the sensor is shorted.					
39 45	Defrost Sensor Ice Maker		ture, "OP", "SH" current tempera-	No activation needed. FF display will show current sensor temperature. "OP" will show if the sensor is open. "SH" will show if the sensor is shorted.					
45 68	Tray Sensor Ice Maker		ture, "OP", "SH" current tempera-	No activation needed. FF display will show current sensor temperature. "OP" will show if the sensor is open. "SH" will show if the sensor is shorted.					
64	Defrost Sensor Humidity Sensor		ture, "OP", "SH" current humidity,	No activation needed. FF display will show current relative humidity as a percentage. "OP" will show if the sensor is open. "SH" will show if the sensor is shorted.					
	No Test		"OP", "SH"						
a-	Main Board Software Paramters		software revi- sion digits	The current software revision will be shown simultaneously on both displays. For example: 0049953C will be shown as 0-0, 0-0, 4-4, 9-9, 9-9, 5-5, 3-3, C-C (FZ-FF).					
b-	Main Board Firmware Version		firmware revi- sion digits	The current firmware revision will be shown simultaneously on both displays. For example: JHB10G00 will be shown as J-J, H-H, B-B, 1-1, 0-0, G-G, 0-0, 0-0 (FZ-FF).					
c-	Dispenser UI Firmware Version		firmware revi- sion digits	The current firmware revision will be shown simultaneously on both displays. For example: LHFE0700 will be shown as L-L, H-H, F-F, E-E, 0-0, 7-7, 0-0, 0-0 (FZ-FF).					
d-	VCZ UI		firmware revi-	The current firmware revision will be shown simultaneously on both displays. For example: MHFE0600 will be shown as M-M, H-H, F-F, E-E, 0-0, 6-6, 0-0, 0-0 (FZ-FF).					

