ctivat		Press and hold	+ and — v buttons for 10 secs. Navigate through tests with the +/— buttons. Automatically deactivates after 10 min	utes of no activity.
Deactiv		Activation/		·
ode	Test 1st Screen	Deactivation	Display Turn on all LEDs on the Main UI and VCZ UI	Passing Result
	2nd Screen		Turn off all LEDs on the Main UI and VCZ UI	
2	FZ Defrost		Heater is on when the display reads On , off when oF	Defrost heater shows temp increase before 5 min have passed or reaches 45°C cutout.
8	Main Water Valve		Main valve activates when On , stops when oF	Valve turns on and off.
53	Dispenser Water Valve + Main Valve		Water dispenses when On , stops when oF	Water successfully dispenses at dispenser.
56	FF IM Water Valve + Main Valve		Remove the ice tray to collect water into a container to measure the water fill. If collecting water into the ice tray, perform test 50 first to empty the tray. Water flows in the tray when On . Test is correspondent to the ice tray water fill setting; automatically goes to oF state once the configured time elapses.	Water dispenses at the ice tray for the configured time setting.
71 72 74	FF Defrost Heater FF IM Defrost Heater VCZ Balance Heater		Heater is on when the display reads On , off when oF	Defrost heater shows temp increase before 5 min have passed or reaches 45°C cutout.
79	FF Fill Tube Heater		FF fill tube heater activates when On , deactivates when oF	Fill tube heater successfully turns on and off. Note a temperature increase in fill tube area.
10	Auger Motor		Auger activates when On , deactivates when oF	Auger motor successfully activates
13	FF Light		FF lights come on when On ; lights turn off when oF	All FF lights turn on
14 15 17	VCZ Light Freezer Evaporator Fan VCZ		VCZ light comes on when On ; light turns off when oF Fan runs at 3 speeds: max On , medium MI , stopped oF ; locked rotor shows Lc . No PWM signal shows nS when fan stops (oF) No 12V signal or ground shows nP when fan is On or MI	Fan will cycle through all 3 speeds and Lc or nS or nP is not displayed
18	Fan Motor Condenser Fan		Fan is on when On , deactivates when oF	Fan motor successfully activates
20	FZ Light		FZ light comes on when On ; lights turn off when oF	FZ light turns on
38	VCC Compressor		Compressor runs at max speed when On , stops when oF	Compressor successfully turns on
47	Ice Chute Heater	Press Cube	Chute heater activates when On , deactivates when oF	Heater successfully turns on and you feel the difference in temperature around the dispenser ice chute
62	FF IM Evaporator Fan Motor	to change the status of the load	Evap fan motor activates when On , deactivates when oF	FF IM evap fan successfully turns on
63	Flip Mullion		Flipper mullion heater activates when On , deactivates when oF	Heater successfully turns on and you feel the difference in temperature along the flipper mullion
66	DC Heater Dispenser Light		Dispenser pocket light turns on when On , deactivates when oF	Dispenser pocket light successfully turns on
70	FF Evap		Fan on when On , deactivates when oF	Fan motor successfully activates
	Fan Motor VCZ Damper			
76	Heater		VCZ damper heater activates when On , deactivates when oF	Heater successfully turns on and you feel the difference in temperature around the dispenser ice chute
84	Cube/Crush DC Solenoid		Solenoid activates when On , deactivates when oF	Solenoid turns on and off
77	VCZ Damper Motor		FRZ evap fan turns on at max speed Damper opens when OP , closes when CL Check for air flow when damper fully opens (OP) and fully closes (CL) Screen blinks 1 during damper movement Any FRZ evap fan motor errors display alternatively of damper status during test	Damper successfully opens and closes and you feel no air flow when the damper closes (CL)
36	Ice Chute Door/ Flapper Motor		Flapper closes when CL , opens when OP	Flapper door successfully opens and closes; Er does not show on display
50	FF IM Twist Tray Harvest Test		Remove ice bucket in order to see rotation of tray. Display shows Go when tray is in home position (horizontal). Screen blinks 1 during rotation. In case of failure at end of twisting operation, screen shows Er	Tray successfully twists and Er does not display at the end of the cycle
78	FF IM Bail Arm Test		Remove ice bucket to see status of IM bail arm. Allow bail arm to drop freely, Em (empty) shows when tray returns home. Hold bail arm up by hand, Fu (full) shows when tray returns home In case of failure at end of twisting operation, Er shows. Screen blinks 1 during rotation.	Bail arm successfully completes test and Er does not display at the end of each cycle
61	Stepper Motor Valve		Compressor automatically runs at max speed. Valve cycles through 4 states: 1. 03 Open position 2. 00 Closed position 3. 01 IM/FZ position 4. 02 FF/IM/FZ position FF IM evap temp flashes during 00 and 01 to check if temp is increasing/decreasing in FF IM evap FF evap temp flashes during steps 03 and 02 to see if temp is increasing/decreasing in FF evap during movement Screen flashes 1 when the valve moves from position to position.	Damper successfully opens and closes and you feel no air flow when the damper closes (CL)
23	FF Door Switch	Open/Close FF Doors		
24	FZ Door Switch	Open/Close	Display shows CL when door closes; OP when open	Display reads correctly when the door is opened/closed
25	VCZ Door Switch	FZ Door Open/Close VCZ Door		
28	Dispenser Paddle	Press the Dispenser Paddle	Display shows oF when you press the paddle; On when you release or do not press the paddle	Display shows oF when you do not press the paddle and On when you press the paddle
29 30	FF Temp Sensor		Display shows compartment temperature in either C or F depending on the mode Display reads OP if open circuit; SH if short circuit	
- 	FZ Temp Sensor FF Evaporator		Display shows FF evaporator temperature in either C or F depending on the mode	4
31 32	Temp Sensor VCZ Temp		Display reads OP if open circuit; SH if short circuit Display shows compartment temperature in either C or F depending on the mode	-
	Sensor UI Ambient		Display reads OP if open circuit; SH if short circuit Display shows UI temperature in either C or F depending on the mode	-
34	Temp Sensor	Activates	Display reads OP if open circuit; SH if short circuit	Temperature displays and does not show OP or SH
39	FZ Evaporator Temp Sensor	automatically	Display shows FZ evaporator temperature in either C or F depending on the mode Display reads OP if open circuit; SH if short circuit	
45	FF IM Tray		Display shows FF IM tray temperature in either C or F depending on the mode]
\dashv	Temp Sensor FF IM Evaporator		Display reads OP if open circuit; SH if short circuit Display shows FF IM evaporator temperature in either C or F depending on the mode	4
68	Temp Sensor		Display reads OP if open circuit; SH if short circuit	-
64	Humidity Sensor		Display shows relative humidity sensed by H&T sensor on UI. Display reads OP if open circuit, SH if short circuit	

SERVICE DATA SHEET

A21060401

ICE & WATER - AUTOMATIC DEFROST BOTTOM FREEZER - R600a

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

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 you remove any green grounding wires during servicing, you must return and properly secure them to their original position.

This concludes the hardware tests. The following tests correspond to firmware versions. Before each firmware version is displayed, -- will appear on screen followed by each 8-digit string representing firmware version. After the string has been displayed, -- will appear again before automatically proceeded to the next 8-digit string. Press + to advance to the next string at any time

Software Version		The current software revision will show simultaneously on both displays. For example: 00559502 will be shown as 0-0, 0-0, 5-5, 5-5, 9-9, 5-5, 0-0, 2-2
Main Board Firmware Version	Press + to skip to the next test	The current software revision will show simultaneously on both displays. For example: JHBI0500 will be shown as J-J, H-H, B-B, I-I, 0-0, 5-5, 0-0, 0-0
 VCZ Firmware Version		The current software revision will show simultaneously on both displays. For example: 3HFEOCOO will be shown as 3-3, H-H, F-F, E-E, O-O, C-C, O-O, O-O
Dispenser UI Firmware Version		The current software revision will show simultaneously on both displays. For example: 2HFE0H12 will be shown as 2-2, H-H, F-F, E-E, 0-0, H-H, 1-1, 2-2
Lifetime	Press + to ad- vance to next digit	Displays number of days the appliance has been powered. Range is from 0-9999

PERFORMANCE DATA NO LOAD & NO DOOR OPENINGS AT 37°/0° CONTROL SETTING

	CD DISPENSER			
Type A with Run / Start Capacitor	55°F (13°C) Ambient	90°F (32°C) Ambient		
Operating Time	70 to 90%	90 to 100%		
Freezer Temperature	emperature -6° to 6°F (-21° to -14°C)			
efrigerator Temperature 34° to 44°F (1° to 7°C)				
VCZ Temperature	-6° t	-6° to 45°F (-21° to 7°C)		
Low Side Pressure	-1 to 3 psig (98 to 124 kPa)	0.8 to 3 psig (107 to 120 kPa)		
High Side Pressure	69 to 83 psig (577 to 672 kPa)	117 to 128 psig (907 to 982 kPa)		
Wattage	45 to 55	54 to 74		
Amps (running)	0.7 to 0.9	0.8 to 1.1		
Base Voltage	115 vac	: (103 to 127 vac max)		
	EPPOP CODES			

ERROR CODES

Error	Message Display			
FZ Temp Disp. Area FF Temp Disp. Area		Interpretation		
Er	Ht	Defrost Heater Open/Shorted		
Er	CE	Communication Error UI to Main Board		
dl	SP Chute Flapper Error - Flapper not Closed			
	t1	FZ Temp Sensor Open/Shorted		
	t2	FZ Defrost Sensor Open/Shorted		
	t3	FF Temp Sensor Open/Shorted		
Er	t4	FF Defrost Sensor Open/Shorted		
	t5	VCZ Temp Sensor Open/Shorted		
	t6	FF IM Tray Open/Shorted		
	t7	FF IM Defrost Sensor Open/Shorted		

SPECIAL MODES

5. 15. KE 110210					
Mode	Display			Activate	Deactivate
Mode	FZ	FF	Other	Activate	Deactivate
Manual Defrost	d	F		FZ + Λ and FF + Λ for 10 secs	
Sabbath	Sb			FZ - v and FF + Λ for 5 secs	
Demo/ Showroom			Demo Light On	FZ + A and FF - V t	or 10 secs
System Diagnostics]		Refer to System Diagnostics Table	FZ + A and FZ - v for 10 secs	
°F/°C Display	- [°F or °C	FF + A and FF - v	for 5 secs
Sleep/Awake Mode]		Display off or always on	Crush and Light keys for 5 secs	
FF IM Fill Time Menu			Setting will appear on UI	Cube and Crush keys for 10 secs	After 10 secs of no activity

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