		SYSTEM DIAGNOSTIC MODE		e.	
	to go back to the previous load.	nultaneously for 10 secs. Use + to advance through different loads and $-$			
		nultaneously for 10 secs.	Press and hold + and - keys sin	Deactivate:	
	Passing result	Display	Activation/Deactivation	Test	Display
		Turn on all LEDS on main UI		First Screen	
		Turn off all LEDS on main UI		Second Screen	
	Defrost heater shows temp increase before 5 min have passed or reaches 45°C cutout	Heater on when display reads <b>On</b> , off when <b>oF</b>		FZR Defrost	2
IMPORTAN <sup>®</sup>	Valve turns on and off	Main valve is activated when <b>On</b> , stops when <b>oF</b>		Main Water Valve	8
This concludes the firmware version is ing firmware version proceeded to the ne	Water is dispensed at ice tray for configured time setting.		-	IM Water Valve + Main Valve	82
Software	All FF lights turn on	FF lights come on when <b>On</b> ; lights turn off when <b>oF</b>		FF Light	13
Version Main Board Ru Firmware Version	Fan will cycle through all 3 speeds and <b>Lc</b> or <b>nS</b> or <b>nP</b> is not displayed			FRZ Evaporator Fan Motor	15
Ruby UI	Compressor successfully turns on	Compressor is running at max speed when <b>On</b> , stopped when <b>oF</b>		VCC Compressor	38
Firmware Version	Heater turns on successfully and difference in temperature is felt around along flipper mullion	Flipper mullion heater is activated when <b>On</b> , deactivated when <b>oF</b>		Flipper Mullion DC Heater	63
P Lifetime	Fill tube heater is successfully turned on and off. Temperature increase is noted in fill tube area		Press <b>Modes</b> to change the status of load	FRZ Fill Tube Heater	94
After Lifetime is disp the Service Mode ha To return to normal <b>PERFORMANCE</b>	Damper opens and closes successfully and no air flow is felt when damper is closed ( <b>CL</b> )			22 FF Damper Motor	22
Type A with Run / Start Capacitor		Any FRZ evap fan motor errors will display alternately of damper status during test.			
	Display reads correctly when door is opened/closed	Remove ice bucket to see rotation of tray.		FRZ IM Twist Tray	88
Operating Time		Display will show <b>Go</b> when tray is in home position (horizontal). Screen		Harvest Test	
Freezer Temp		will blink 1 during rotation.			
Refrigerator Temp		In case of failure at end of twisting operation, screen will show <b>Er</b>			
Low Side Pressure High Side Pressure (last 1/3 cycle) Wattage (last 1/3 cycle)	Bail arm successfully completes test and <b>Er</b> is not displayed at the end of each cycle.			FRZ IM Bail Arm/ Ice Level Bucket	86
Amps (running)			Open/Close FF doors	FF Door Switch	23
Base Voltage	Display reads correctly when door is opened/closed	Display shows <b>CL</b> when door is closed; <b>OP</b> when open	Open/Close FRZ door	FRZ Door Switch	24
		Display will show FF cabinet air temperature in either °C or °F depending on mode Display will read <b>OP</b> if open circuit, <b>SH</b> if short circuit		FF Temp Sensor	29
Cabinet Size: 22' CD		Display will show FRZ cabinet air temperature in either °C or °F depending on mode Display will read <b>OP</b> if open circuit, <b>SH</b> if short circuit	Activates automatically	FRZ Temp Sensor	30
Electronic Timer - (	Temperature is displayed and does not show <b>OP</b> or <b>SH</b>	Display will show ambient temperature in either °C or °F depending on mode Display will read <b>OP</b> if open circuit, <b>SH</b> if short circuit		Ambient Temp Sensor	33
Display		Display will show FRZ evaporator temperature in either °C or °F depending on mode Display will read <b>OP</b> if open circuit, <b>SH</b> if short circuit		FRZ Evaporator Temp Sensor	39
1st message 2nd m		Display will show relative humidity sensed by H&T sensor on UI. Display will read <b>OP</b> if open circuit, <b>SH</b> if short circuit		Humidity Sensor	64
Er		Display will show FRZ IM tray temperature in either C or F depending on mode Display will read <b>OP</b> if open circuit, <b>SH</b> if short circuit		FRZ IM Tray Temp Sensor	87

FREEZER ICE MAKER FILL TIME ADJUSTMENT MODE			
Setting #	Pressure Condition	Fill Time	
1	Normal-High (more than 60 psi)	4.6 secs	
2	Low (between 30 and 60 psi)	5.8 secs	
3	Very Low (between 20 and 30 psi)	6.6 secs	
4	Extremely Low (less than 20 psi)	7.2 secs	

### ➡ 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.

# SERVICE DATA SHEET

## A22302902

**ICE & WATER - AUTOMATIC DEFROST** 

**BOTTOM FREEZER - R600a** 

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

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

Runs automatically scrolling through all digits Press "+" button to skip to next test	Displays digit sequence related to software loaded onto main power board; 8 digit sequence	Firmware version is able to be recorded from display
Press + button to advance to next digit	Displays number of days the appliance has been powered up, even not consecutively Range is from 0-9999	Lifetime displays successfully on display

is displayed, last display is a 1-second counting up timer (0, 1, 2, 3...) this communicates ode has come to an end ormal operation, press and hold "+" and "-" for 10 seconds or plug/unplug the appliance

normal operatio	n, press and hold "+" and "-	" for 10 secon	ids or plug/unplug tl	he appliance	
ANCE DATA N	NO LOAD & NO DOOR C	PENINGS A	T 37°/0° CONTRO	OL SETTING	
Run / tor	90°F (32°C) Ambient				
me		90 to 100%			
6 -13°F to 3°F (-25°C to -16°C)					
Temp	34° to 44°F (1° to 7°C)				
essure	10 psi (69kPa)				
essure e)		67 - 69 psi (472kPa)			
st 1/3 cycle)		40W to 42W			
ng)		0.6W to 0.7W			
9	115 vac (127 vac max)				
	DEFROST SPECI	FICATIONS	5		
	Thermal Cutout		Heater	Defrost Thermistor Termination	
	Cut-out	Watts	Ohms	Cut-out	
FRZ	2 fuses, each fuse rated to open @ 72°C +0/-4°C	172	76.9	10°C	
mer - (ADC) De	efrost 30 minutes every 8-9	96 hours of co	ompressor run time.		
	ERROR CC	DES			
<b>play</b> 2nd message		Interpretation			
CE	Communication Error III to Main Doord				
t1	Communication Error UI to Main Board Fzr Temp Sensor Open/Shorted				
t2	Fzr Defrost Sensor Open/Shorted				
t3	FF Temp Sensor Open/Shorted				
t8		FRZ IM Temp			
	SPECIAL M	ODES			
Display	Activate		Deactiv	ate	
t	Press and Hold + Reset Water Filter for	+ & r 10 secs			
dE	Press and Hold — & <b>Reset Water Filter</b> for 10 secs				
Sb	Press and Hold — & <b>Reset Air Filter</b> for 5 secs				
Refer to System Diagnostics Table	Press and Hold + & — for 10 secs				
F or C	Press and Hol	ld Freeze Boo	ost & + for 5 second	S	
Cattinga will	Dress and Llold Medee 9	an Makan fau	Automotically off	ar 10 agas of	

Mode

Manual

Defrost

Demo /

Showroom

Sabbath

System

Di-

agonostics °F/°C

Display

IM Fill	Settings will	Press and Hold Modes & Ice Maker for	Automatically after 10 secs of
Time Menu	appear on UI	10 secs	no activity

