| | | 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 On , off when oF | | FZR Defrost | 2 |
| IMPORTAN [®] | Valve turns on and off | Main valve is activated when On , stops when oF | | 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 On ; lights turn off when oF | | FF Light | 13 |
| Version Main Board Ru Firmware Version | Fan will cycle through all 3 speeds and Lc or nS or nP is not displayed | | | FRZ Evaporator Fan Motor | 15 |
| Ruby UI | Compressor successfully turns on | Compressor is running at max speed when On , stopped when oF | | 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 On , deactivated when oF | | 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 Modes to change the status of load | FRZ Fill Tube Heater | 94 |
| After Lifetime is disp the Service Mode ha To return to normal PERFORMANCE | Damper opens and closes successfully and no air flow is felt when damper is closed (CL) | | | 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 Go 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 Er | | | |
| Low Side Pressure High Side Pressure (last 1/3 cycle) Wattage (last 1/3 cycle) | Bail arm successfully completes test and Er 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 CL when door is closed; OP 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 OP if open circuit, SH 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 OP if open circuit, SH if short circuit | Activates automatically | FRZ Temp Sensor | 30 |
| Electronic Timer - (| Temperature is displayed and does not show OP or SH | Display will show ambient temperature in either °C or °F depending on mode Display will read OP if open circuit, SH 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 OP if open circuit, SH 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 OP if open circuit, SH 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 OP if open circuit, SH 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 | | | |
| play 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 — & Reset Water Filter for 10 secs | | | | |
| Sb | Press and Hold — & Reset Air Filter 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 |

