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/yellow grounding wires are removed during servicing, they must be returned to their original position and properly secured.

PERFORMANCE AT FACTORY SETTING						
Ambient Temperature	70°F	90°F				
Operating Time	100%					
Freezer Temperature	4 to -4°F					
Low Side Pressure (Cut-in)						
Low Side Pressure (Cut-off)	-9.8 to -4.4 psig	-7.8 to -4.4 psig				
High Side Pressure	35 to 47 psig	51 to 56 psig				
Wattage	35W	54W				
Amps	0.50	0.68				
Base Voltage	115					
Refrigerant Charge	50g					
Defrost Heater	206W					

DEFROST SPECIFICATIONS						
	Thermal Cutout		Heater			
Cabinet Size: 19´	Open	Closed	Watts	Ohms		
	n,	/a	206	n/a		

Specifications subject to change without notice. For complete performance data by model, refer to service manual. Options shown are not necessarily part of model.

DEFROST CONTROL

The defrost period will vary dependent on the heater on time, with a maximum of 60 minutes. There is a 5 minute idle (drip time) time after the heater turns off before the evaporator fan and compressor will turn on. During the defrosting period a temperature sensor monitors the evaporator temperature and the main control board turns the defrost heater off after the frost on the evaporator has melted.

A manual defrost can be activated by simultaneously pressing and holding + and **AIR FILTER** for 10 seconds. The temperature display will show **dF** for a few seconds indicating manual defrost is activated and a beep will be heard. Then the unit will display the last set point. There may be up to a 3 minute delay before the defrost heater is energized.

ICE MAKER INFORMATION

Adjust Water Fill Setting: Press and hold FREEZER BOOST and ICE MAKER together for 10 seconds. Use + and - to select water fill setting. Display switches back to normal mode in 10 seconds.

SERVICE DATA SHEET

A16331302

AUTOMATIC DEFROST UPRIGHT FREEZER - R600A

 \rightarrow **IMPORTANT: PLEASE RETURN THIS SHEET TO ITS ORIGINAL LOCATION.**

SERVICE MODE DIAGNOSTIC TESTS

Allows technicians to step through available tests to diagnose individual electrical circuits.

To Enter and Exit Service Mode: Press and hold - and + simultaneously for 10 secs



Controls:

Upon entering Service Mode the User Interface illumination test begins. 1. All of the LEDs on the User Interface will illuminate.

- 2. Press and release + and all of the LEDs on the User Interface will turn off.
- 3. Press and release + to move to the Output Loads test. Press and release FREEZE BOOST to energize load.
- 4. Pressing and releasing + moves through the Output Loads test, input tests and information display phase. Press and release - to go back to previous tests.
- 5. The table provides the test description, test number that is displayed to identify the specific test being performed and the displayed info when the test output or input is activated.

Software Code Streaming

During this phase all software parameters and codes which are programmed into the Main Control Board and User Interface board will be displayed in the following order:

- Main Control Board parameters code (8 characters) 1
- 2. Main Control Board software name code (8 characters)
- 3. User Interface software name code (8 characters)

The User Interface displays each character for 1 second, and then the buzzer emits a short beep and displays the next character.

- Between the 3 different sets of code displays, the User Interface displays horizontal bar.
- Pressing and releasing + before the software streaming phase is completed the Service Mode goes straight to the lifetime information display phase.
- After the software code streaming phase is complete the test automatically goes to the lifetime streaming phase.

Lifetime Display

During this phase the display shows the total number of days the appliance ha been powered up.

- Each number is shown on the display starting from the most significant one. Pressing and releasing + makes the buzzer emit a short beep and then display the next digit.
- Pressing and releasing + when the fourth digit is displayed makes the Service Mode go straight to the final phase.

Final Phase

During this phase the User Interface shows a 1-sec upcounting timer. This phase communicates Service Mode has come to an end. To return to normal mode, press and hold - and + simultaneously for 10 secs.

	Primary Water Valv
	DC Evaporator Fai
	Freezer LED Light
	Compressor Invert er Speed Control
	Ice Maker Fan
	Fill Tube Heater
	Ice Maker Filtered Water Fill Output
-	This phase is to tes entered the twist t MAKER makes the MAKER again mak
:	
	Twist Tray Motor
	Bail Arm
	Freezer Magnetic Door Switch
	Freezer Cabinet Temp Sensor
	Main Board Ambient Temp Sensor
а	Evaporator Defrost Temp Sensor
k	Ice Maker Twist Tray Temp Sensor
У	
	Eri
IS	Communication er was never achieve communication be
h	

Defrost Heater

Condenser Fan

Freezer Cabinet

Freezer Defrost I Freezer Icemake

120 VAC OUTPUT LOAD TESTS						
	Test Number	Load	Display			
	2	120 VAC, ≈ 206 W	oF (OFF)/			
	12	120 VAC, ≈3.1 W	on (ON)			
lve	56	120 VAC, ≈15 W				
DIGITAL OUTPUT TESTS						
	Test Number	Load	Display			
an	15	+12 VDC, ≈1 W	oF (OFF) NI (MID SPEED) on (FULL SPEED)			
nts	20	+12 VDC, ≈21.6 W Total				
rt- I	38	12 V Square Wave	oF (OFF)/			
	62	+12 VDC, ≈2.5 W	on (ON)			
	67	+12 VDC, ≈0.9 W				
d t	81	+12 VDC				
	TWIST TRAY ICI	E MAKER TESTS				
est the ice maker twist tray motor and bail arm. When this mode is tray motor moves to the home position. Pressing and releasing ICE twist tray cycle (flashes I while cycling). Pressing and releasing ICE the bail arm cycle, checking if the ice bucket is empty or full.						
	Test Number	Display				
	50	GO (HOME)/I (FLASHING)/ GO (CYCLE COMPLETED)				
	78	EN (EMPTY)/ I (FLASHING)/ EN (EMPTY) or FU (FULL)				
	DIGITAL IN	PUT TESTS				
	Test Number	Dis	olay			
2	24	OP (OPEN)/0	CL (CLOSED)			
	TEMPERATURE	SENSOR TESTS				
	Test Number	Dis	olay			
	30	OP (OPEN)/SH (SHORT)				
nt	33					
st	39					
r	45					
ERROR CODES						
rror	Туре	Digit D	Display			
erro red a petw norr	r (communication at power up or lost veen main board and nal system run)	CE				
NTC		T1				
VTC	T2		2			
r NTC		T6				

