



WARNING



Electrical Shock Hazard

Death or serious injury can result from failure to follow these instructions.

- Service by a qualified service technician only.
- Disconnect power before servicing this product.
- Reconnect all grounding devices after service.
- Replace all parts and panels before operating.



AVERTISSEMENT



Risque de choc électrique.

Des blessures graves ou fatales peuvent résulter du défaut d'observer ces instructions.

- Réparations seulement par un technicien qualifié.
- Débranchez l'alimentation électrique avant la réparation.
- Rebranchez tous les dispositifs de mise à la terre après la réparation.
- Remettez toutes les pièces et panneaux en place avant d'utiliser l'appareil.

ELECTRICAL SPECIFICATIONS

Max Defrost Control

W/No Door Openings	96 hrs @ 45 min
Evap Defrost Thermo Disc	140-110°F
Electrical Rating: 110-127V AC 60 Hz	10.0 amp
Maximum Current Leakage	0.75 mA
Maximum Ground Path Resistance	0.14 Ohms

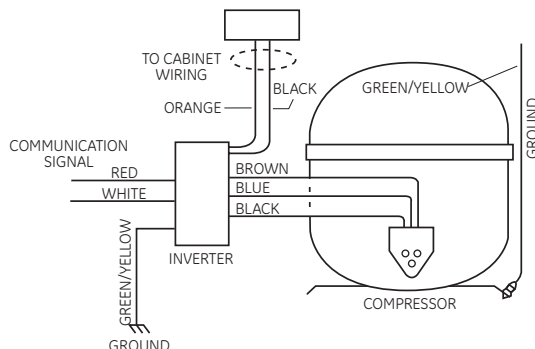
NO LOAD PERFORMANCE

CONTROL POSITION 37-0°F and

AMBIENT TEMPERATURE OF	70°F	90°F
Fresh Food, °F	35-39	35-39
Frozen Food, °F	(-4)+4	(-4)+4
Percent Running Time	50	80

REFRIGERATION DIAGNOSIS

To access the low pressure side of the system, install a WR86X0097 valve only on the process tube extending from the compressor case.



CAUTION

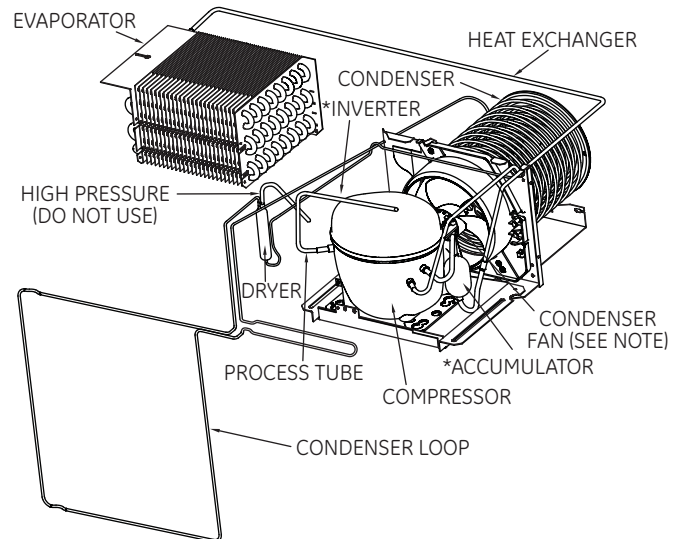
To avoid personal injury when servicing the condensing unit, stand on a ladder which will give enough support to allow removal of the top panel and safely allow access to service the unit.

ATTENTION

Afin de prévenir les blessures lors d'une réparation du groupe compresseur-condenseur, tenez-vous sur une échelle qui vous procurera suffisamment de support lors du retrait du panneau supérieur et un accès sûr pour réparer ce composant.

REFRIGERATION SYSTEM

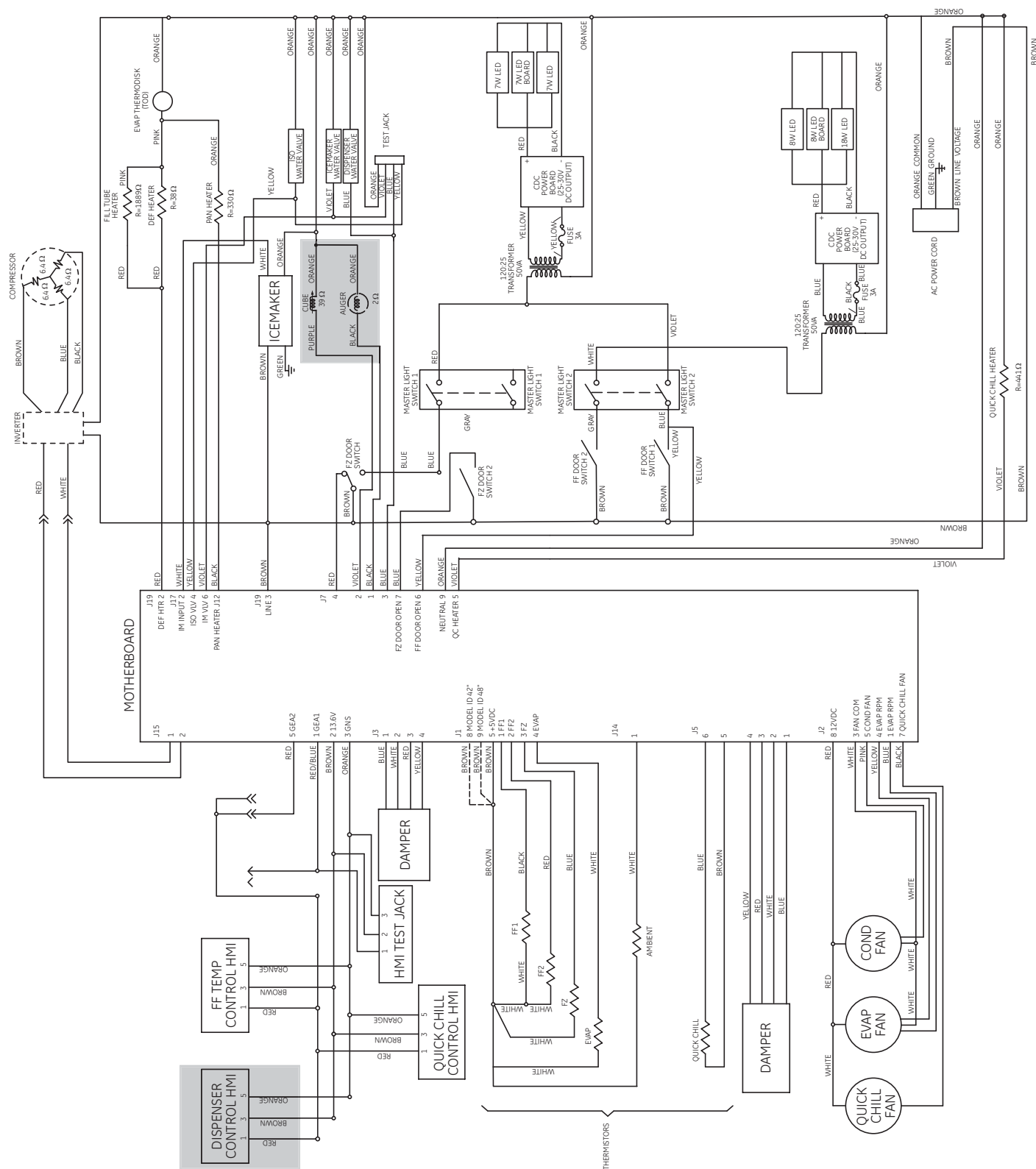
Vacuum	22 inches
Minimum Equalized Pressure	
@ 70°F	65/65 PSIG
@ 90°F	79/80 PSIG
Refrigerant Charge (R134a)	8.50 oz



*APPROXIMATE LOCATION (INVERTER AND ACCUMULATOR)

Note: Fan blade mounted for maximum airflow with .150" of shaft exposed.

GE Appliances PSB42, PSB48, CSB42, CSB48



NOTE: GRAY TINT INDICATES DISPENSER MODELS ONLY.

Service Diagnostic Functions

**WARNING**

Service Technicians Only

Entering Service Diagnostics

Enter service mode by pressing the **Water**, **Crushed**, and **Cubed** buttons simultaneously for 3 seconds. The display will show **00** in the FZ temperature display and **00** in the FF temperature display. All of the components will turn off, 3-way valve will go home, dampers will go to the closed position, and the temperature display shows **00** in each of the FZ and FF displays. LCD Display: Use the up and down buttons on the left to increment the 1's place to select the desired test. Press any key other than the temp adjust keys to run test. The test mode must be selected within 5 minutes of entering the diagnostic mode or it will time-out, normal refrigerator operation will resume.

Once a test mode is selected, the display will show the results of the mode selected. Run test 0016 to exit diagnostics and return to normal operation. The control will reset to normal operation if power is cycled.

FAULT CODES

Group	Display	Failure Code Definition
Thermistors	0 0 0 1	FF1 Thermistor reading out of range
	0 0 0 2	FF2 Thermistor reading out of range
	0 0 0 3	FZ Thermistor reading out of range
	0 0 0 4	FZ Evaporator Thermistor reading out of range
	0 0 0 8	Ambient Temperature Thermistor reading out of range
	0 0 1 0	N/A
	0 0 1 3	Quick chill thermistor reading out of range
Fans	0 1 0 0	FZ Fan Feedback Missing when Fan is running
	0 1 0 1	FZ Fan Feedback Present when Fan is off.
	0 1 0 2	FZ Fan cannot reach target speed.
Defrost System	0 2 0 0	FZ Defrost Heater timed out (first check FZ Evap thermistor fault - code 0004)
	0 2 0 2	5 consecutive FZ abnormal defrosts.
Sealed System	0 3 0 0	Compressor ran continuously for 24 hours
	0 3 0 1	Temperature satisfied > 3 hours (no compressor operation)
	0 3 0 2	FF temp below freezing
	0 3 0 3	FF Temp exceeds 20F over Setpoint , 1 hr post defrost or door opening
	0 3 0 4	FZ Temp exceeds 20F over Setpoint , 1 hr post defrost or door opening
	0 3 0 7	Damper driver fault (this Fcode not be available on some software versions)
Main Board	0 4 0 0	N/A
	0 4 0 1	Dispenser Paddle switch pressed > 7 minutes
	0 4 0 2	N/A
	0 4 0 3	Mainboard Software Fault
	0 4 0 4	Mainboard Hardware Fault
Ice Maker	0 6 5 4	FZ IM No water supply detected (this Fcode not be available on some software versions)
External Interaction	0 7 0 0	Stuck keys on Dispenser Boards
	0 7 0 1	Stuck Keys on Internal Temp Board
	0 7 0 3	Key Press on Temp Board while Door Closed (non-dispenser model only)
	0 7 1 3	FF Door open for 15 minutes continuously.
	0 7 1 4	FF Door open for 60 mins. total in the last 24 hours
	0 7 1 5	50 FF Left Door Openings in the last 24 hours.
	0 7 1 6	50 FF Right Door Openings in the last 24 hours.
	0 7 1 7	FZ Door open for 15 minutes continuously
	0 7 1 8	FZ Door open for 60 mins. total in the last 24 hrs.
	0 7 1 9	50 FZ Door Openings in the last 24 hours.

DIAGNOSTICS TESTS

FZ Display	FF Display	Mode	Comments
0	0	Show F Codes	
0	1	Clear F Codes	Clears all fault codes after repairs are complete
0	2	Dispenser Self-Test Mode	Turns on all LEDs and 7 Segments on the Dispenser board for testing
0	7	Degrees C Mode	Changes the System to be Degrees C
0	8	Degrees F Mode	Changes the System to be Degrees F
0	14	Force FZ Defrost	Starts a FZ defrost
0	15	Exits All Defrost	Forces the Heated Defrost to the Idle State
0	16	Exit Service Mode	Resets all boards in the system
0	18	Dispenser Version Test	Confirm Communication to UI boards.
0	20	Internal temp board version test	
0	23	Mainboard Version Test	
0	24	FF1 Cabinet Thermistor Test	Display the unfiltered instantaneous temperature of the thermistor. Display of 300 or -41 to indicates open / shorted or not present. If the thermistor is out of range, "- -" will be displayed. Example: 10 27 = 10.27 deg
0	25	FF2 Cabinet Thermistor Test	
0	27	FZ Cabinet Thermistor Test	
0	28	FZ Evaporator Thermistor Test	
0	33	Quick Chill Thermistor Test	
0	43	Cycle Duct Door	Opens the Duct Door for 10 sec. and then closes it
0	44	Cycle FF Damper	Opens the Damper for 30 seconds and then closes it
0	46	Cycle QC Damper	
0	48	FZ Fan Test	Turns the Fan on 75% duty cycle and the RPM is displayed
0	49	Condenser Fan Test	Turns the Fan on 75% duty cycle (no RPM displayed)
0	51	QC Fan test	Turns the Fan on 100 % duty cycle (no RPM displayed)
0	54	QC heater Test (30 Sec)	Turns on the Load
0	55	Isolation Valve Test	
0	57	Water Dispenser Valve Test	
0	58	FZ Icemaker Water Valve Test	
0	60	FZ Defrost heater Test	
0	61	Compressor Relay Test	Returns the Input Status (0 = Closed, 1 = Open)
0	62	Defrost Pan Heater test	
0	71	Read FF Door Status	
0	72	Read FZ door Status	
0	73	Icemaker Input Status	
0	93	FZ Defrost Heater Test with Feedback	Turns on defrost heater and display the evaporator thermistor temperature. The test will automatically terminate when the Evaporator temperatures reach 80 F.
0	96	FZ Cooling Test	Compressor ON - Condenser fan high- FZ fan low - display FZ evap thermistor temperature
1	3	Ice dispenser Auger Relay Test	Turns on the Load
1	4	Ice dispenser Crusher Relay Test	