Side-by-Side Refrigerator—Technical Information

LSD2615HEB LSD2615HEB0, LSD2615HEW LSD2615HEW0, PSD262LHEB PSD262LHEB0, PSD262LHEW PSD262LHEW0, PSD262LHEZ PSD262LHEZ0

NOTE: Refer to Service Bulletin F-897A-S for complete diagnostics of Ice 'N Water™ dispenser control

- Due to a possibility of personal injury or property damage, always contact an authorized technician for service or repair of this refrigerator.
- Refer to Service Manual 16022769 for installation, operating, disassembly, icemaker, testing, and troubleshooting information.

⚠ CAUTION

All safety information must be followed as provided in Service Manual 16022769

⚠ WARNING

To avoid risk of electrical shock that can cause death or severe personal injury, disconnect unit from power before servicing unless testing is required. Discharge capacitors through a 10,000 ohm resistor before handling. Wires removed during disassembly must be replaced on correct terminals to ensure proper grounding and polarization.

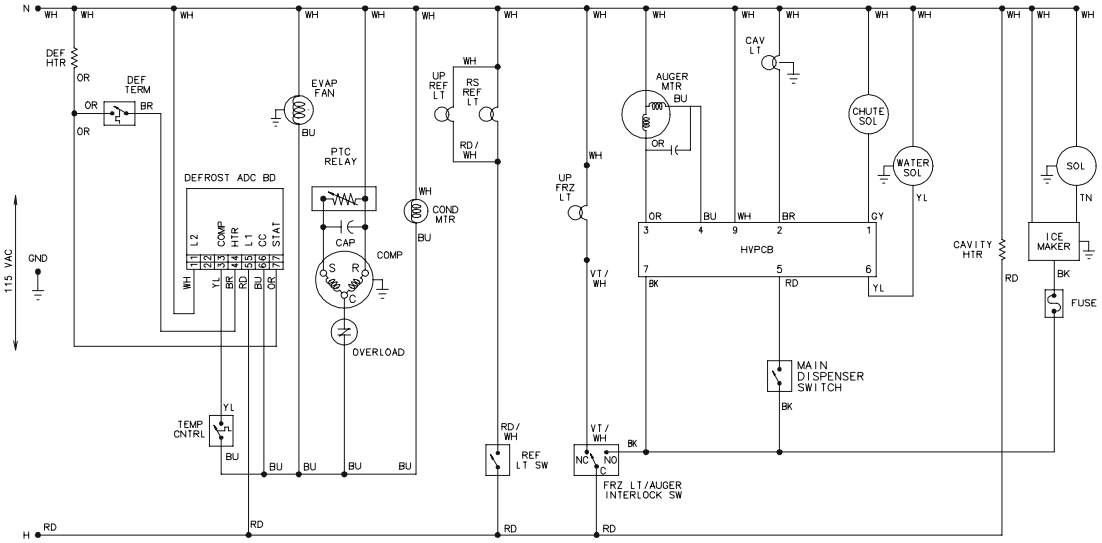
No-Load Performance, Controls in Normal Position

	Kw/24 hr ±0.4			Percent Run Time ±10%			Cycles/24 hr ±25%			Refrigerator Center Compartment Average Food Temperature ±3°F			Freezer Compartment Average Food Temperature ±3°F		
Ambient °F	70°	90°	110°	70°	90°	110°	70°	90°	110°	70°	90°	110°	70°	90°	110°
26 cu ft	1.2	1.85	2.60	35	55	75	30	55	19	35	39	42	0	0	-2

Temperature Relationship Test Chart

	Evaporator Outlet ±3°F		Evaporator Inlet ±3°F		Suction Line ±7°F		Average Total Wattage ±10%		Suction Pressure ±2 PSIG		Head Pressure ± 5 PSIG	
Ambient °F	70°	90°	70°	90°	70°	90°	70°	90°	70°	90°	70°	90°
26 cu ft	-15	-15	-16	-16	72	98	132	138	6"(Vac.)	0	87	137

Schematic



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Component Specifications

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Component	**Specifications all parts 115VAC/60HZ unless noted**	
Compressor run capacitor	Volt	220 VAC
	Capacitance	15 μfd ± 10%
Compressor	BTUH.....	905 BTUH
	Watt	60 Hz / 153 watts
	Current Lock rotor	19.0 amps± 15%
	Current Full load.....	1.26 amps± 15%
	Resistance Run windings	3.33 ohms± 15%
	Resistance Start windings	4.28 ohms± 15%
Damper control	Settings	Closing temperatures
	#1	43.8°F
	#4	35.3°F
	#7	24.5°F
Freezer temperature control	Settings	Temperatures
	#1 – out	5.3°F ±3.5°
	#4 – out	-4.4°F ±2.0°
	#7 – out	-11.3°F ±3.5°
Condenser motor	Rotation (facing end opposite shaft)	Clockwise
	RPM	1120 RPM
	Watt.....	3.40 watts±15%@115VAC
	Current	0.085 amps± 15%@115VAC
Evaporator fan motor	Rotation (facing end opposite shaft)	Clockwise
	RPM……	2800 RPM
	Watt……	5.9 ±15% watts@115VAC
	Note: Fan blade must be fully seated on shaft to achieve proper airflow.	
Overload/Relay	Ult. trip amps @ 158°F (70°C)	2.67 amps± 15%
	Close temperature.....	142°F ±9°
	Open temperature	284°F ±9°
	Short time trip (seconds)	10 seconds ±5
	Short time trip (amps @77°F (25°C) ..	11.0 amps ±2amps
Thermostat (Defrost)	Volt	120/240 VAC
	Watt	495 watts
	Current	5.8/2.9 amps
	Resistance across terminals:	
	Above 42°F ±5°	Open
	Below 12°F ±7°.....	Closed
Evaporator heater	Volt.....	115 VAC
	Wattage.....	450 ±5% watts @ 115VAC
	Resistance	29 ±5% ohms
Adaptive defrost control	Volt.....	120VAC, 60 HZ See adaptive defrost board section
Auger Motor	Rotation (facing end opposite shaft)	Power to blue and white is clockwise. Power to orange and white is counterclockwise
	RPM	17± 3 RPM
Water Valve	Watts	Brown side 35w, Yellow side 20w
Light switch	Type……..	SPST NC
	Volt……	125/250 VAC
	Current……..	8/4 amps
Light switch / Interlock	Type……..	SPDT NO/NC
	Volt……	125/250 VAC
	Current……..	8/4 amps
Solenoid (Ice Chute)	Resistance across leads	101ohms ± 10%

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Adaptive Defrost Control (ADC)

WARNING

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The ADC adapts the compressor run time between defrosts to achieve optimum defrost intervals by monitoring the cold control and length the defrost heater is on.

After initial power up, defrost interval is 4 hours compressor run time. Defrost occurs immediately after the 4 hours.

Optimum defrost is 15 minutes. Each additional minute the defrost thermostat remains closed, 1 hr. is subtracted from the previous defrost interval. Each minute the thermostat opens prior to optimum defrost, it extends the next defrost interval 1 hr. When in defrost if defrost terminator opens there is a 6 minute drip time before compressor restarts or ADC will terminate defrost at 30 minutes even if defrost thermostat has not opened and will reset the defrost interval to the 8 hr. minimum setting.

1 hour of continuous compressor run resets the next defrost interval to 8 hours and will initiate a defrost, if 8 hours of compressor run time has also occurred.

Power up Refrigeration mode will occur unless both the cold control and defrost terminator are open, in that case the defrost mode will occur for 2 minutes.

To Force Defrost: Turn cold control on and off 2 times within 6 seconds.

A forced defrost is immediate without any delay regardless of the cold control state or the defrost terminator state. (When the ADC cycles the unit into defrost on it's own, defrost is delayed until 4 minutes after the compressor has been cycled off by the cold control.)

Note: Cold control contacts must make and break for forced defrost to occur. In some cases freezer door must be left open to warm the cold control sensing capillary to get the cold control contact to make and break. If cold control contacts do not make and break unit will not force a defrost.

WATER DISPENSER

Seconds to dispense 10 oz. water

Supply pressure	35 psig	45 psig	55 psig	75 psig
Filter model Bypass installed	6.8	5.7	5.2	4.8
Filter model New filter installed	8.4	7.4	6.5	5.2

A minimum supply pressure of 35 psig for water filter units. Minimum pressure requirement ensures that water valves close and sufficient water volume is available to fill icemaker. Proper fill is 137 cc. of water in 7.5 seconds. Failure of water valves to close because of low pressure will result in fill-tube freeze-up or dripping at cavity.

Dispenser Light

Light activates at full power when dispensing ice or water. A sensor activates light at half-power when light level around refrigerator is low. Activate or deactivate sensor by pushing AUTO LIGHT button located on control façade. Green light above AUTO LIGHT button indicates sensor is active.

Dispenser Lock

Prevents operation of water and ice dispensers. To activate or deactivate lock, press and hold DISPENSER LOCK button for 3 seconds. Green light above button indicates dispenser lock.

Automatic Lock Out

Shuts down both ice and water mechanisms of dispenser when either mechanism has run continuously for 3 minutes. To return power to dispenser, press and hold DISPENSER LOCK for 3 seconds. Auger motor shuts off automatically after 3 minutes of continuous operation. After about 3 minutes in shut-off state, auger motor resets automatically.

Filter Status Light Reset

Once filter light turns red, it remains red until reset. To reset filter indicator, press both DISPENSER LOCK and WATER pushbuttons simultaneously and hold for 4 seconds. Make sure green light flashes 3 times when indicator resets.

NOTE: Refer to Service Bulletin F-896-S for complete diagnostics of Ice 'N Water™ dispenser control.

Sabbath Mode

This mode is intended to deactivate power to the LED and dispenser lights, while allowing the controls to remain operational.

To activate Sabbath mode:

- Press and hold both Dispenser Lock and Auto Light buttons simultaneously for 3 to 4 seconds, the LED and dispenser lights will turn off. **Dispenser light will not activate during dispensing while in this mode.**

To deactivate Sabbath mode:

- Press and hold both Dispenser Lock and Auto Light buttons simultaneously for 3 to 4 seconds. After 3 to 4 seconds, the LED and dispenser lights will activate.

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Wiring Diagram

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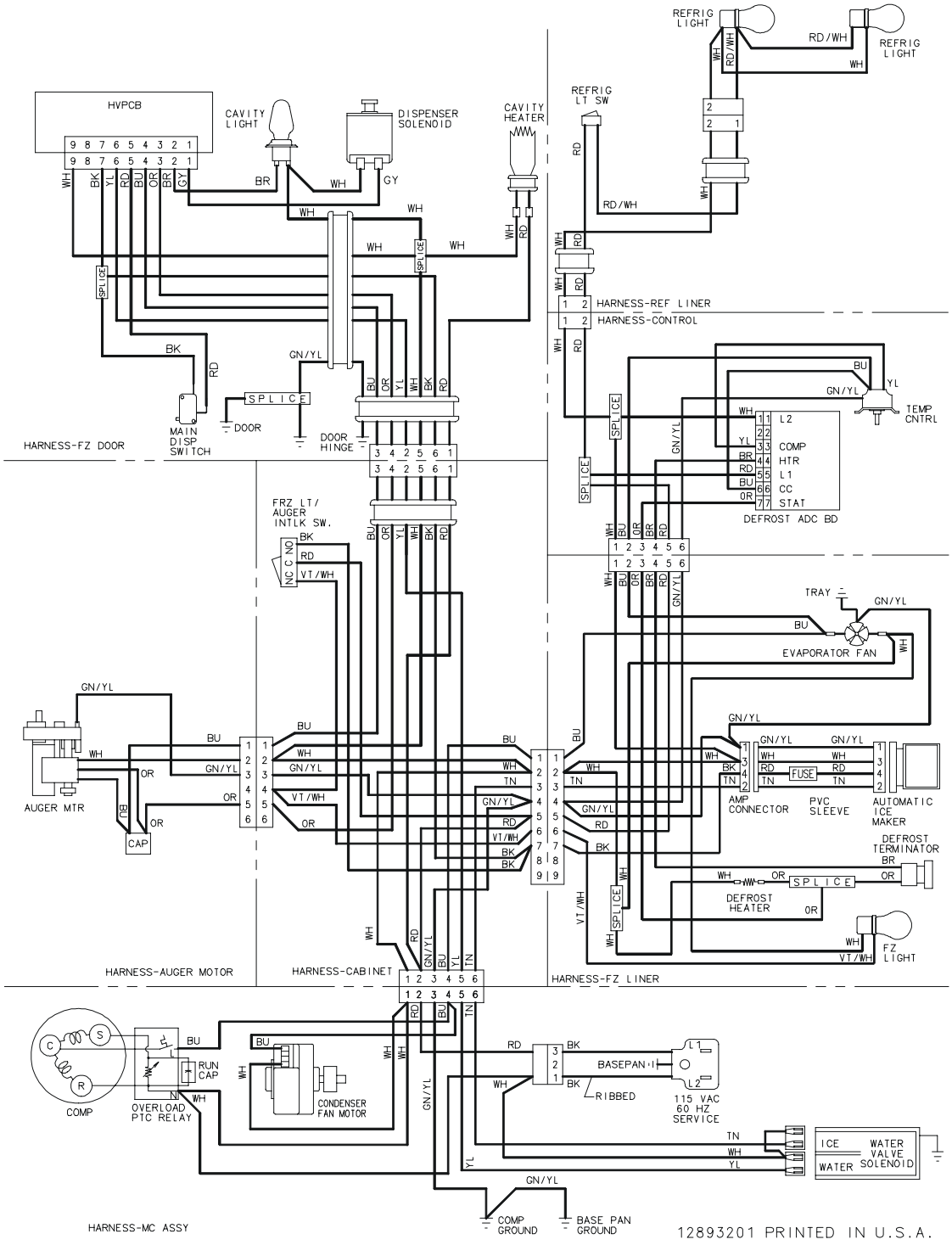

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