

Amana Technical Information—Refrigerator

TSI25V P1308102W

- Due to a possibility of personal injury or property damage, always contact an authorized technician for servicing or repair of this refrigerator.
- Refer to Service Manual RS1100000 for installation, operating, disassembly, ice maker, testing, and troubleshooting information.
- Refer to Parts Manual RP1100056 for parts information.

CAUTION

All safety information must be followed as provided in Service Manual RS1100000.

WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect power to refrigerator before servicing, unless testing requires power. Wires removed during disassembly must be replaced on proper terminals to insure correct earthing and polarization.

Model	TSI25V
Capacity	24.5 cu ft
Electrical requirements separate circuit	115 VAC 60 Hz 15 Amps
Refrigerant type	R134a
Width without side extrusions	35.625"
Depth without handle includes door extrusions	32.655"
Height including top hinge cap	68.295"

No Load Performance Controls in Normal Position

Ambient °F	Kw/24 hr ±10%			Percent Run Time ±10%			Cycles/24 hr ±20%			Refrigerator Center Compartment Food Average Temperature ±3°F			Freezer Compartment Food Average Temperature ±3°F		
	65°	90°	110°	65°	90°	110°	65°	90°	110°	65°	90°	110°	65°	90°	110°
	1.2	1.9	2.8	22.1	33.5	50.7	37.9	38.3	30.	35.7	41.8	41.2.	0.6	0.9	-0.3

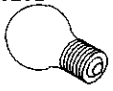
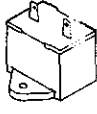
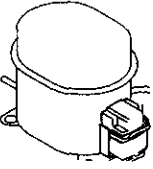
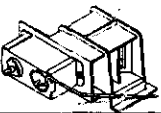
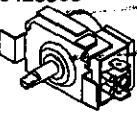


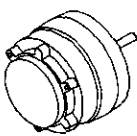
Temperature Relationship Test Chart

Ambient °F	T-1 Outlet ±3°F		T-2 Inlet ±3°F		T-3 Suction Line ±7°F		Average Total Wattage ±10%		Suction Pressure ±2 PSIG		Head Pressure ±5 PSIG	
	65°	90°	65°	90°	65°	90°	65°	90°	65°	90°	65°	90°
	-9.5	-12.2	-16.7	-12.	65.9	90.	190.	204.	1.	2.	87.	135.

Component Specifications

⚠ WARNING

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Illustration	Component	Test Procedure	
A0282803 	Bulb	Volt Watt	115/125 VAC 40 watts
C8931604 	Capacitor, compressor run	Volt Capacitance	220 VAC 15 Mfd ±10% -5%
12049711 	Compressor	Type BTUH Volt Watt Current Lock rotor Full load Resistance Run windings Start windings	Fan cooled, R134a refrigerant 970 BTUH 115 VAC, 60 Hz 176 watts 21.3 amps 1.6 amps 2.60 ohms 4.35 ohms
R0161072 	Control, damper	Settings #1 #4 #7	Closing temperatures 43°F 30°F 16°F
10428508 	Control, freezer temperature	Settings #1 - in #1 - out #4 - in #4 - out #7 - in #7 - out	Temperatures 15.1°F 6.0°F 6.5°F -4.0°F 1.9°F -9.5°F
B2150504 	Drier	Drier must be changed every time the system is opened for testing or compressor replacement.	
		Desiccant	(20) 8 x 12 4AXH - 7 M>S> -Grams
10991110 	Heater, evaporator	Volt Wattage Resistance	115 VAC 505 ±5% watts 29 ±5% ohms
10884501 	Motor, condenser	Volt Rotation (facing end opposite shaft) RPM Watt Current Resistance	115 VAC, 60 Hz Clockwise 1300 RPM 10.0 watts 0.15 amps 220 ±10% ohms

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Illustration	Component	Test Procedure	
10449501 	Motor, evaporator fan	Volt Rotation (facing end opposite shaft) RPM Watt	115 VAC, 60 Hz Clockwise 3050/3100 RPM 8.3 ±15% watts
10377015 	Overload, 4TM	Volt Ult. trip amps @ 158°F (70°C) Close temperature Open temperature Short time trip (seconds) Short time trip (amps @ 77°F 25°C)	115 VAC 3.51 amps 142°F (61°C) ±9° 257°F (125°C) ±5° 10 seconds ±5 14 amps
10097202 	Relay, ptc	Resistance With power off check: Across terminals 2 & 3 Shorted Open	3 - 12 ohms 0 ohms Very high or infinite ohms
M0350201 	Switch, single throw	Type Volt Current	SPDT 125 VAC 4 amps
C3680308 	Switch, light	Type Volt Current	NC 125/250 VAC 5/2.5 amps
10442410 	Thermostat	Volt Watt Current Resistance across terminals Above 60° ± 5°F Below 37° ± 7°F Between 60° ± 5°F and 37° ± 7°F	120/240 VAC 1000 watts 10/5 amps Open Closed Will stay in current state (either open or closed) until either 48° ±5°F or 25° ±5°F is reached.
10428601 	Timer, defrost	Volt Defrost period (minutes) Defrost cycle (hours)	120 VAC, 60 Hz 33 ±3.6 10
10524606 	Valve, water Used on: TSI25T	Volt Watt Water pressure (inlet) Max Min Fill rate	120 VAC, 60 Hz 20 watts 120 PSI 20 PSI 137 ±15-24 CC's at 7.5 seconds

Wiring Diagrams and Schematics

⚠ WARNING

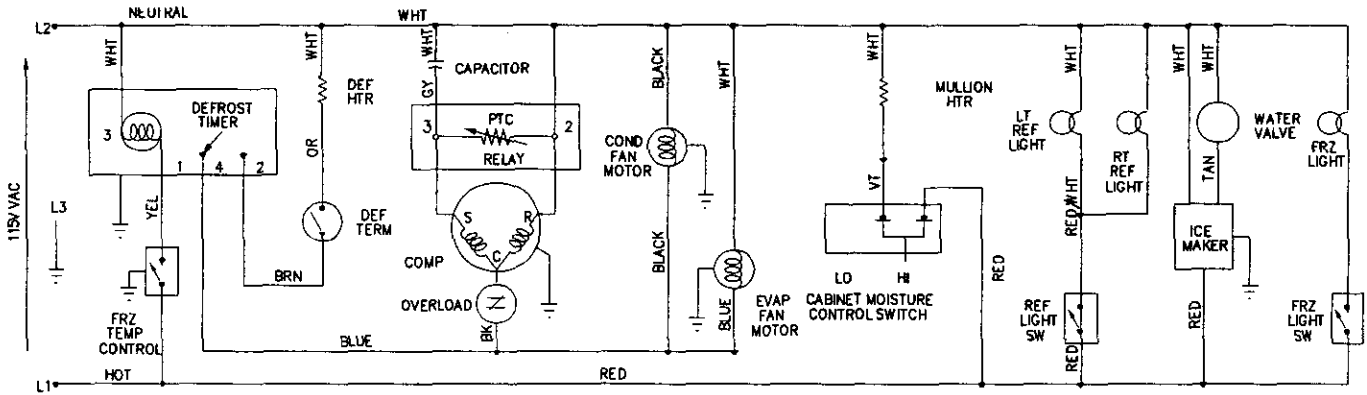
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⚠ CAUTION High Voltage



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