Top Mount Refrigerator— Technical Information

ATB1821AR*, ATB1830AR*, ATB1836AR*, ATB1838AE*, ATB1832AR* CTB1821AR*, MTB1891AR*, MTB1893AR*, MTB1895AE*

Due to a possibility of personal injury or property damage, always contact an authorized technician for service or repair of this refrigerator.

⚠ CAUTION

All safety information must be followed as provided in Service Manual 16023446

⚠ 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 ±3ºF			Freezer Compartment Average Food Temperature ±3ºF		
Ambient ºF	65°	90°	110°	65°	90°	110°	65°	90°	110°	65°	90°	110°	65°	90°	110°
18 cu ft	0.8	1.2	2.2	26	45	70	31	24	20	37	36	36	0	0	0

Temperature Relationship Test Chart												
	Evaporator Outlet ±3ºF		Evaporator Inlet ±3ºF		Suction Line ±7ºF		Average Total Wattage ±10%		Suction Pressure ±2 PSIG		Head Pressure ± 5 PSIG	
Ambient ºF	65°	90°	65°	90°	65°	90°	65°	90°	65°	90°	65°	90°
18 cu ft	-15	-14	-15	-14	65	95	135	140	0	1	83	135

Component Specifications

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Component	**Specifications all parts 115VAC/60HZ unless noted**	
Compressor run capacitor	Volt.....	220 VAC
	Capacitance	14 μfd ± 10%
Compressor	BTUH	595 BTUH
	Watt	60 Hz / 134 watts
	Current Full load	15.3 amps±15% 1.19 amps± 15% 3.682 ohms± 15% 7.628 ohms± 15%
FF Temperature control	Settings	Temperatures
	#1 – out.....	23.1°F ±3°
	#4 – Differential.....	51°F ±1.5°
	#4 – out.....	17.9°F ±1.5°
	#7 – out.....	16.1°F ±3°
Condenser motor	Rotation (facing end opposite shaft)	Clockwise
	RPM.....	1250 RPM
	Watt	8.0 watts±13%@115VAC
	Current.....	0.10 amps± 15%@115VAC
Evaporator fan motor	Rotation (facing end opposite shaft)	Counter-Clockwise
	RPM……	2700 RPM
	Watt……	6.5 ±13% watts@115VAC
Overload/Relay	Ult. trip amps @ 158°F (70°C).....	2.61 amps± 15%
	Close temperature	156°F ±6°
	Open temperature.....	266°F ±3°
	Short time trip (seconds).....	10 seconds ±5
	Short time trip (amps @77°F (25°C)..	14 amps ±2amps
Thermostat (Defrost)	Volt	120/240 VAC
	Current.....	10/2.5 amps
	Resistance across terminals:	
	Above 61.1°F ±5°.....	Open
	Below 22.2°F ±7°	Closed
Evaporator heater	Volt	115 VAC
	Wattage	395 ±5% watts @ 115VAC
	Resistance.....	33.4 ±5% ohms
Defrost timer	Volt	120VAC, 60 HZ
	Defrost period (minutes)……..	21 ± 3
	Defrost cycle (hours)……..	10
Light switch	Type……..	SPST NC
	Volt……	125/250 VAC
	Current……..	8 / 4 amps

Wiring Diagram

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