

Gas Charging or Vacuuming

Category: Refrigeration

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The copper tube assembly shown is a service charging valve on the liquid line of a small hermetic refrigeration unit. This single access point can be used for deep vacuum and for refrigerant charging, depending on the connected equipment. Understanding when the technician is vacuuming and when charging is critical for reliability.

BASIC TN1900 Refrigerator Compressor

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The BASIC TN1900 represents a medium-displacement hermetic reciprocating compressor engineered for low back pressure refrigeration applications. This Syrian-manufactured unit operates on R134a refrigerant with 220-240V 50/60Hz power supply, delivering 200-250W cooling capacity at -30°C to -10°C evaporating temperatures with RSIR motor technology

HITACHI FL20S88NAA Compressor

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The HITACHI FL20S88NAA 0.75 HP hermetic scroll compressor delivers 256W cooling capacity at 50Hz, utilizing HFC-134a refrigerant for household refrigerator-freezer applications. This LBP-classified unit operates reliably at 220-240V with RSIR starting method, integrated into Sharp's SJ-PT73R-HS3 model offering 662-liter gross capacity with Hybrid Cooling System and Plasmacluster technology.

Transformer, WDB4109, 220V 50Hz, Microwave Standby Power

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The WDB4109 is a compact linear transformer used as the standby power source in many Samsung microwave ovens, converting 220 V - 230 V AC to 16.33 V and dual 5.47 V outputs for the control board. It is critical for powering the clock, keypad, relays and low-voltage electronics safely.

Relay, model MAA-S-124-C, is a 24 VDC, 5-pin

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The MEISHUO S220 series relay, model MAA-S-124-C, is a 24-volt 5-pin SPDT automotive relay rated 20 A/10 A at 28 VDC. Its DIN 72552 terminal numbering—30, 85, 86, 87 and 87a—gives technicians a universal language for wiring and troubleshooting in vehicles, HVAC equipment and industrial control panels.

[Types of Electrical Wires and Their Uses](#)

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Modern installations use several wire families, each optimized for voltage level, environment, flexibility, and temperature range. Choosing the right type reduces losses, prevents overheating, and keeps residential, industrial, and communication systems compliant with safety standards. PVC house wiring, flexible multi-core cables, armoured feeders, PTFE high-temperature conductors, and data or earth wires all play specific roles.

[Embraco EM2Z 80HL.C compressor requires approximately 150 ml Oil](#)

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The Embraco EM2Z 80HL.C is a robust hermetic reciprocating compressor engineered for refrigeration efficiency. Featuring a 1/4 HP motor and optimized for R134a refrigerant, this Brazilian-made unit delivers reliable Low Back Pressure (LBP) performance. This guide details its 150ml oil charge, electrical specs, and competitive advantages for technicians.

[Scroll Compressor Internal Components Explained](#)

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When technicians open a scroll compressor casing, the real engineering lives in internal mechanisms invisible at first glance: the floating seal preventing vacuum damage, the motor protector monitoring temperature and amperage, the pressure relief valve, the discharge check valve preventing reverse rotation, and the optimized bearing system. Understanding these core components transforms your diagnostic confidence.

[Donper K400CZ1 R134a compressor](#)

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The Donper K400CZ1 is a hermetic reciprocating compressor designed for commercial refrigerators and chest freezers operating with refrigerant R134a on 220-240V 50Hz single-phase power. It offers roughly 1/2 hp class performance with about 400 W cooling capacity, making it suitable for medium-size display cabinets and storage equipment in supermarkets and restaurants.

Start Run Capacitor Failure, Causes

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An AC motor run capacitor such as the CBB65 SH usually explodes when it is forced to work beyond its electrical or thermal limits, or when the start-assist components fail and leave it in the circuit too long. This overstress breaks down the dielectric, creates internal gas and pressure, and finally ruptures the can.