STC-9200 Temperature Controller

Category: Refrigeration
written by www.mbsm.pro | 12 January 2026

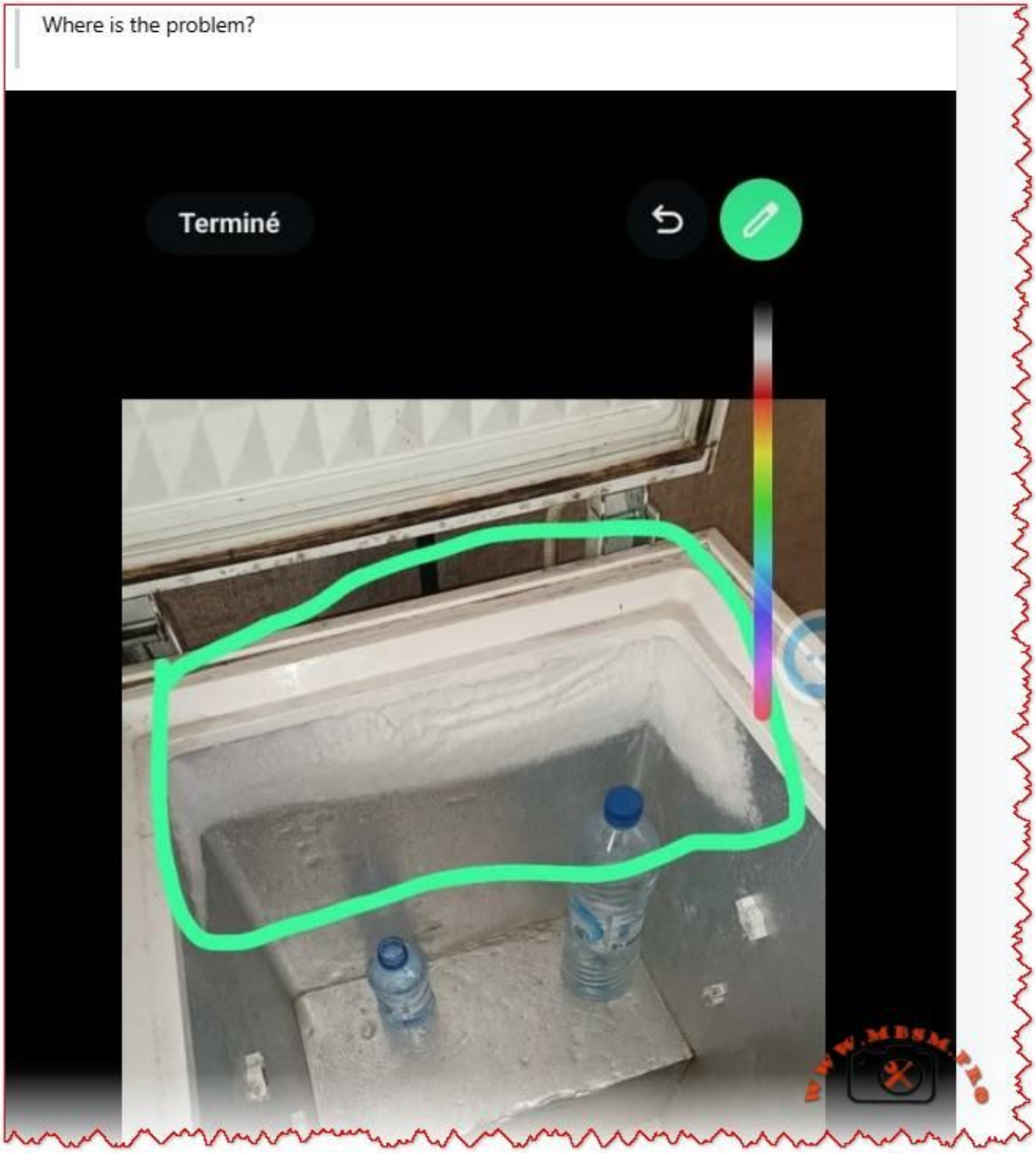


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“The STC-9200 digital temperature controller is a professional-grade thermostat designed for industrial refrigeration and freezing applications. This advanced multi-stage controller features precise temperature regulation from -50°C to +50°C, integrated defrost management, and robust relay capacity for compressor control, making it ideal for commercial cooling systems and display cases.”

The 5 Pillars of Refrigeration Diagnosis: Professional HVAC

Category: Refrigeration
written by www.mbsm.pro | 12 January 2026



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Professional HVAC technicians rely on five critical diagnostic pillars: suction pressure, discharge pressure, superheat, subcooling, and saturation temperature relationships. Mastering these five measurements eliminates guesswork, accurately identifies refrigeration problems, and ensures proper system troubleshooting without expensive callbacks or equipment damage.

SECOP SC21G COMPRESSOR

Category: Refrigeration
written by www.mbsm.pro | 12 January 2026



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Secop SC21G is a high-performance hermetic reciprocating compressor designed for commercial refrigeration and freezing applications using R134a refrigerant. This guide covers detailed specifications, technical parameters, and installation requirements for 220-240V/50Hz systems at up to 1.3 amperes.

Samsung MSE4A1Q-L1G AK1, hermetic reciprocating refrigerator compressor

Category: Refrigeration
written by www.mbsm.pro | 12 January 2026



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The Samsung MSE4A1Q-L1G AK1 is a hermetic reciprocating refrigerator compressor designed for domestic LBP applications with R600a refrigerant and a nominal cooling capacity around 175–180 W at ASHRAE conditions, equivalent to roughly 1/4 hp. Engineers value this model for its efficient RSCR motor and robust design.

Carrier Inverter AC Error Codes, Indoor and Outdoor Protection

Category: air conditioner
written by www.mbsm.pro | 12 January 2026

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Error Display

Indoor duplty	Oudoor LED Flash	Error Information
E0	★25 Times	Indoor unit EEPROM parameter error
E2	★27 Times	Zero-crossing signal detection error
E4	★28 Times	The indoor tan spersing sperating outside thcuit or short circuit
E5	★28 Times	Eraporator coil temperature sensor is open circuit or short circuit
EC	★30 Times	Refrigerant leakage detected
E1	★2 Times	Indoor/outdoor units communication error
F1	★11 Times	Outdoor ambient temperature sensor is open circuit or short circuit
F2	★10 Times	Condeneer coil temperature sensor is open circuit or short circuit
F3	★8 Times	Compressor discharge temperature sensor is open circuit or short circuit
F4	★1 Time	Outdoor unit EEPROM parameter error
F5	★12 Times	Outdoor DC fan molor fault
F6	★9 Times	Compressor Suction temperature sensor fault
L3	★33 Times	Drive phase curent overload fault
L4	★34 Times	Phase current sampling fault
P0	★6 Times	IPM module fault
F2	★7 Times	Compressor shell temperature overheat protection
F4	★4 Times	Compressor starting abnormal
P4	★5 Times	Compressor out-of-step abnormal
F0	★13 Times	Outdoor AC current protection
L1	★31 Times	Drive bus vollage overload protection
L2	★32 Times	Drive bus vollage over-low protection
F1	★15 Times	Outdoor Over-high/Over-low AC voltage protection
P5	★14 Times	Compressor phase current protection
P6	★18 Times	Outdoor Over-high/Over-low DC voltage protection
P7	★17 Times	IPM temperature over heat protection
P8	★18 Times	Compressor discharge temperature overheat protection
P9	★19 Times	Cooling indoor unit anti-freezing protection
PU	★20 Times	Cooling outdoor coil overheat protection
PE	★21 Times	Heating indoor coil overheat protection
PC	★22 Times	Cooling outdoor ambient temperature over-low protection
PH	★23 Times	Heating outdoor ambient temperature over-high protection

★ Flash

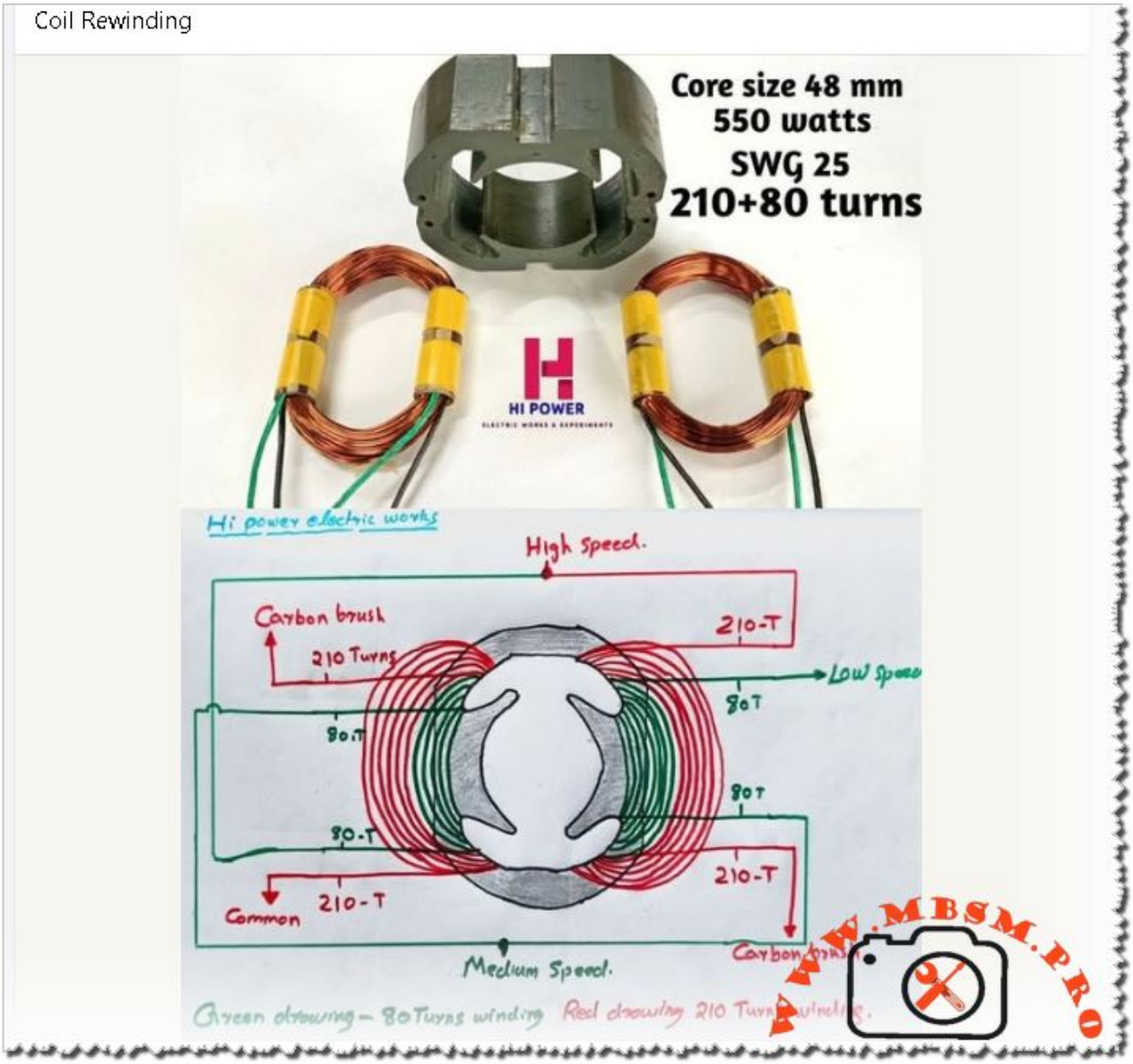
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Carrier inverter air conditioners use detailed error codes to protect the compressor, sensors, and inverter electronics. Codes such as E0, F0, P0, and P6 reveal EEPROM faults, outdoor AC current problems, IPM module errors, and DC bus voltage issues, giving HVAC technicians a clear roadmap for safe, accurate troubleshooting and long-term system reliability.

Coil Rewinding, Universal Motor, 550 W

Category: Global Electric
written by www.mbsm.pro | 12 January 2026



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Coil rewinding for a 550-watt universal mixer-grinder motor with a 48 mm core is more than just replacing burnt copper. The technician must reproduce the original 210+80 turn field coils with SWG 25 wire, respect the high-medium-low speed connections, and follow best rewinding practices to keep torque, speed, and temperature under control.

LG Inverter AC Error Codes: Indoor and Outdoor Unit Professional Guide

Category: air conditioner
written by www.mbsm.pro | 12 January 2026

Model: Inverter AC

Indoor Unit

ERROR CODE	DISCRIPTION
1	Indoor unit room temperature sensor error
2	Indoor unit inlet pipe sensor error
3	Wired remote control error
4	Float switch error
5	Communication error between indoor and outdoor units
6	Indoor unit outlet pipe sensor error
9	Indoor unit EEPROM error
10	Indoor unit BLDC fan motor lock
12	Indoor unit middle pipe sensor error

Outdoor Unit

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ERROR CODE	DISCRIPTION
21	DC Peack (IPM) fault
22	CT2 (Max CT)
23	DC link low voltage
26	DC Comp position error
27	PSC fault
29	Comp phase over current
32	Inverter compressor D pipe overheat
34	High pressure sensor high
35	Low pressure sensor low
36/38	Refrigerant leak detection
37	Exceed the compression ration limit
40	CT sensor error
41	Discharge pipe sensor error
42	Low pressure sensor error
43	High presure sensor error
44	Outdoor air sensor error
45	Cond middle pipe sensor Error
46	Suction pipe sensor Error
51	Excess capacity (Mismatch between IDU and odu unit)
53	Communication error
61	Cond. Pipe high
62	Heat sink sensor temp. High
67	BLDC motor fan lock
72	Detect 4 way valve transfer failure
93	Communication error

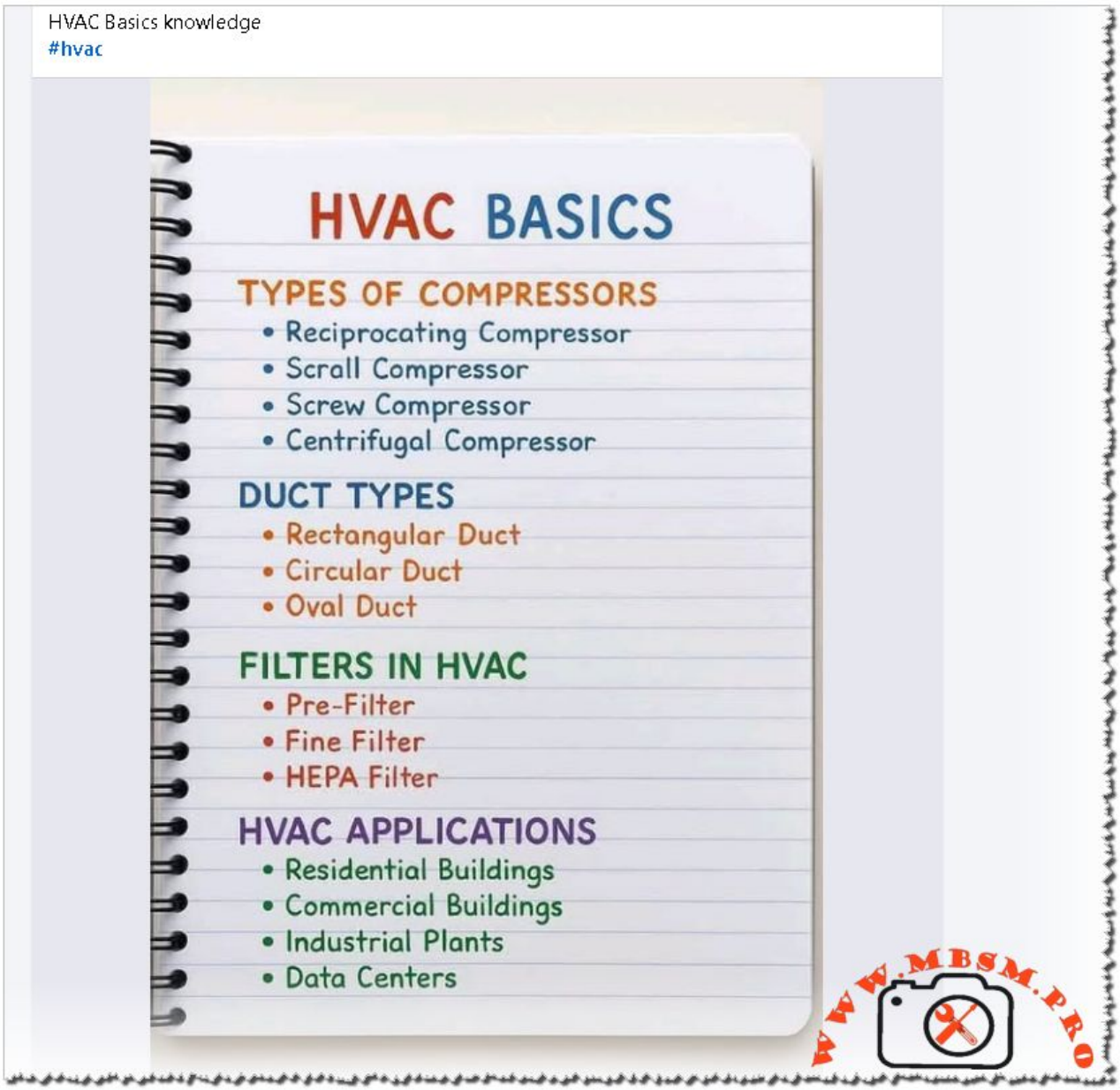
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LG inverter air conditioner error codes give technicians a precise window into what is happening inside both indoor and outdoor units. From simple room

temperature sensor faults to complex IPM and DC peak alarms, decoding these numbers correctly is critical for fast, safe, and accurate HVAC troubleshooting on modern LG split systems.

HVAC Basics: Compressors, Ducts, Filters, and Real-World Applications

Category: Refrigeration
written by www.mbsm.pro | 12 January 2026

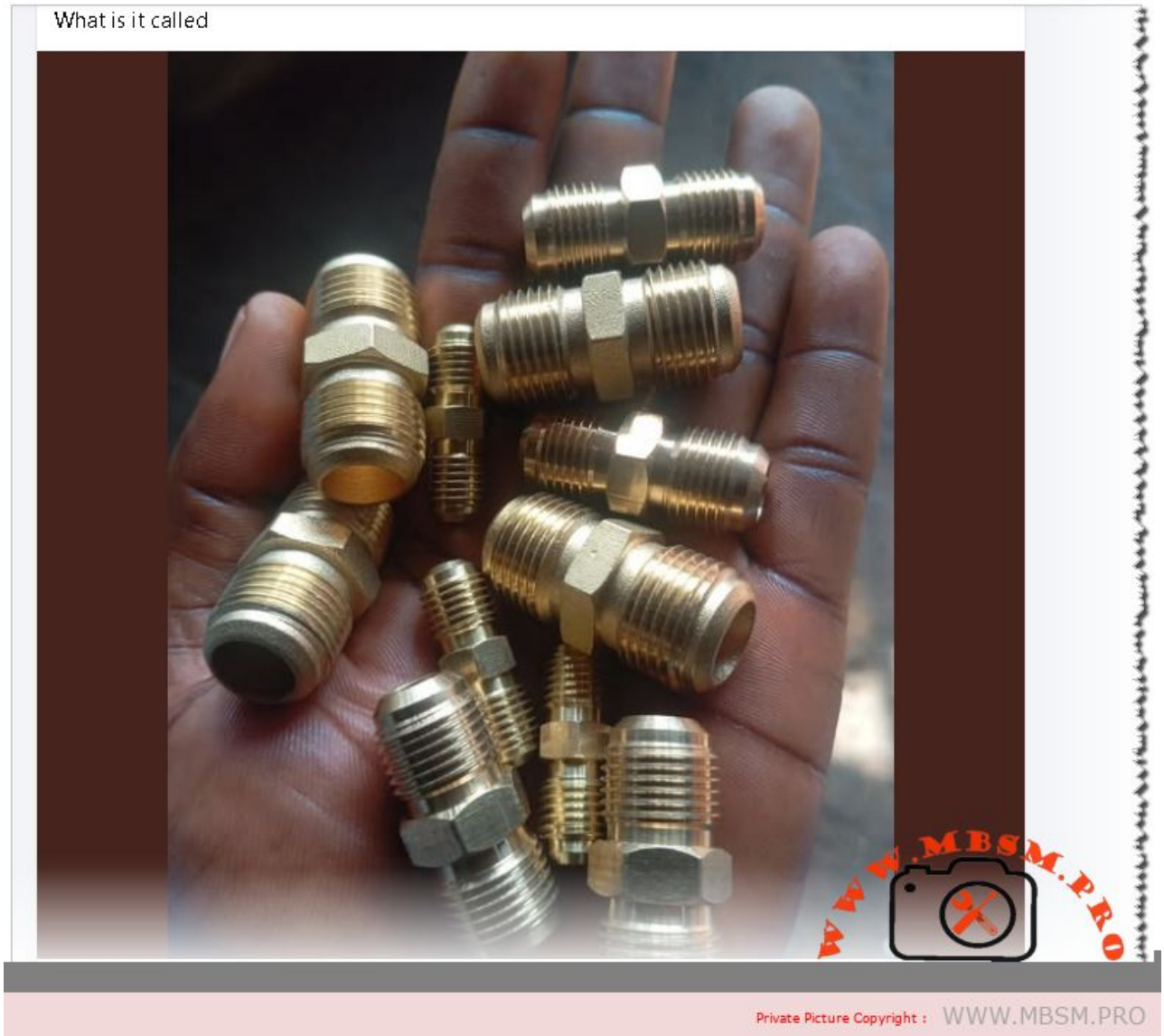


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HVAC basics start with understanding how compressors, ducts, and filters work together to move heat and clean air in any building. From reciprocating and scroll compressors to rectangular and circular ducts, each choice affects comfort, energy efficiency, and reliability in residential, commercial, industrial, and data center applications.

Brass Male Flare Union Fittings for Refrigeration and HVAC Systems

Category: Mbsmpro
written by www.mbsm.pro | 12 January 2026



Brass male flare union fittings are essential components in refrigeration and HVAC systems, providing reliable mechanical connections between flared copper tubes without the need for brazing. These brass flare unions support a wide operating temperature range and are widely used for service connections, line extensions, and removable joints in air-conditioning and refrigeration installations.

Electrical unit conversion reference

table: HP to watts, KVA to amps, tons refrigeration to kW

Category: Global Electric
written by www.mbsm.pro | 12 January 2026



1 HP	746 WATT
1 AMPS	240 WATT, {V=240}
1 HW	1000 WATT
1 KW	0.746 KW
1 KVA	1.74 AMPS, {P.F=0.8}
1 AMPS	0.8 KW
1 KW	0.24 KW, [V=240]
1 KW	1.25 KVA
1 UNITS	1.341 HP
1 UNITS	0.7188 KVA [V=415]
1 GΩ	1 KWH
1 kΩ	1000 WATTS
1 KW	1000 WH
1 WATT	0.001 KVA
1 kΩ	1000 Ω
1 kΩ	1000 kΩ
1 M	100,000 Ω
1 Ω	1.001 KW
1 KVA	1.391 AMPS
1 TON	3.517 KW
1 KVA	1000 VA
1 M	1.74 AMPS
1 kΩ	1000 Ω
1 kΩ	1000 kΩ
1 Ω	0.000001 MΩ
1 KVA	1.391 AMPS
1 TON	3.517 KW
1 KVA	1000 VA

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Electrical unit conversions are essential knowledge for HVAC technicians and refrigeration engineers. This comprehensive reference guide provides quick access to conversion formulas, technical specifications, and practical examples for comparing power ratings, calculating system requirements, and optimizing equipment selection across different measurement standards.