

Excellent GS66AZ Compressor Technical Specifications, BIG 1/6 HP, 6.6 cm3

Category: Refrigeration

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The GS66AZ compressor from Excellent is a workhorse in the domestic and light commercial refrigeration sector, engineered for reliable performance in low-temperature applications such as standard freezers and smaller display units. This hermetic reciprocating unit operates using the widely available R134a refrigerant, making it a highly serviceable component globally.

LG MA62LCEG compressor specifications R134a 1/5 hp LBP

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The LG MA62LCEG is a reliable hermetic reciprocating compressor designed for low back pressure (LBP) applications using R134a refrigerant. Rated at approximately 1/5 HP, it delivers 174W (596 BTU/h) cooling capacity with 127W input power and a solid COP of 1.38.

SECOP SC21G COMPRESSOR

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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.

Danfoss hermetic compressors capillary sizing chart

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DENFOSS COMPRESSOR				
Capillary Length	Capillary No.	Dia	Wgt (Oz/compressor)	Compressor No.
4 Feet	0.26	150 mil	1.04	TL2A
4 Feet	0.26	150 mil	1.02	TL2AA
4 Feet	0.26	150 mil	1.02	TL2AB
4 Feet	0.26	150 mil	1.04	PN65H
4 Feet	0.26	175 mil	1.05	PN65H7
4 Feet	0.26	175 mil	1.05	TL2B
4 Feet	0.26	175 mil	1.05	TL2B7
7.5 Feet	0.26	200 mil	1.08	TL2B
7.5 Feet	0.26	200 mil	1.08	PN65H9
7.5 Feet	0.26	200 mil	1.08	PN65H9P
7.5 Feet	0.26	200 mil	1.08	PN65H11
7.5 Feet	0.26	200 mil	1.08	TL2B11P
8 Feet	0.31	220 mil	1.08	TL5A
8 Feet	0.31	220 mil	1.08	PN65H11
8 Feet	0.31	220 mil	1.08	PN65H19
9 Feet	0.31	230 mil	1.08	PN65H19
9 Feet	0.31	230 mil	1.08	TF504E
10 Feet	0.31	235 mil	1.08	TF505
10 Feet	0.31	275 mil	1.08	FE5156
10 Feet	0.31	300 mil	1.08	FE5158
10 Feet	0.31	300 mil	1.08	FE5160

Technicians match Danfoss compressors to systems using precise capillary tube lengths from 4 to 10 feet, paired with specific oil charges like 150 ml for 1/12 HP models. Capillary numbers 0.26 to 0.31 ensure optimal refrigerant flow in LBP setups.

Embraco EGAS70HLC Compressor

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The Embraco EGAS70HLC stands out as a reliable hermetic piston compressor designed for low back pressure (LBP) applications using R134a refrigerant. Rated at 220-240V 50Hz single phase, it delivers around 61W cooling capacity with 1.5A LRA and RSIR starting. Built in Brazil by J.G Therm, model C 796173 ensures durable performance in freezing units from -30°C to -10°C.

Gas Charging or Vacuuming

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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.

SCE SCOOP

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Understanding the inner workings of a Secop SCE hermetic compressor is essential for any refrigeration technician or engineer. This comprehensive guide breaks down the complex internal components—from the crankshaft to the valve plate—providing a detailed exploded view. Whether you are troubleshooting or studying mechanical design, our professional analysis offers the clarity needed for modern cooling systems.