

LG MA62LCEG compressor specifications

R134a 1/5 hp LBP

Category: Refrigeration

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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

Category: Refrigeration

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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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DENFOS COMPRESSOR				
Capacity (L/min)	Capacity (kg)	CM	kg (movement)	Compressor No.
4 (Peak)	0.26	160 mm	1/14	FL2A
4 (Peak)	0.26	160 mm	1/12	RL2.5A
4 (Peak)	0.26	160 mm	1/12	RL2.5B
4 (Peak)	0.26	160 mm	1/14	PW0908
6 (Peak)	0.36	175 mm	1/8	PW15K17
6 (Peak)	0.36	175 mm	1/10	TL30
7.5 (Peak)	0.46	200 mm	5/8	TL4A
7.5 (Peak)	0.46	200 mm	5/8	PW15K19
7.5 (Peak)	0.46	200 mm	5/8	PW15K19
7.5 (Peak)	0.46	200 mm	5/8	PW15K11
7.5 (Peak)	0.46	200 mm	5/8	TG05A17
9 (Peak)	0.51	230 mm	5/8	TL5A
9 (Peak)	0.51	250 mm	5/8	PW15K19
9 (Peak)	0.51	250 mm	5/8	PW15K19
10 (Peak)	0.51	250 mm	5/8	TG05A17
10 (Peak)	0.51	275 mm	5/8	FL082
10 (Peak)	0.51	275 mm	5/8	PW15K19
10 (Peak)	0.51	300 mm	5/8	FL0130
10 (Peak)	0.51	300 mm	5/8	FL0130

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.

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.

Bitzer 4J-13.2Y-40P semi-hermetic

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The Bitzer 4J-13.2Y-40P is a semi-hermetic reciprocating compressor designed for demanding commercial refrigeration applications. Its nameplate provides critical information for installers, including voltage ranges of 380–420 V at 50 Hz and 440–480 V at 60 Hz, running current, starting current, displacement flow and maximum permissible shell pressures.

Copeland ZB50KCE Scroll Compressor

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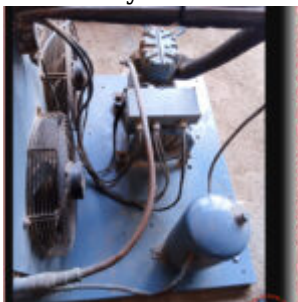


copeland zb50kce scroll compressor 7 hp 11.9 kw polyester oil nameplate data Mbsmgroup
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Copeland-15hp

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The photos show a Copeland condensing unit on a steel base, with a semi-hermetic compressor,

air-cooled condenser and vertical liquid receiver designed for cold room applications. This type of refrigeration unit is widely used in commercial food storage because it delivers stable temperature control, good energy efficiency and straightforward maintenance for professional technicians.