

R290 · 220-240V | 50 Hz

A NEW PREMIUM PROPANE SOLUTION FOR GREEN AND EFFICIENT CABINETS

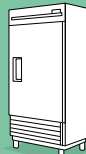
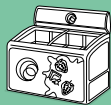
SECCP



KL-Series



Commercial
Applications



New Hermetic
Terminal Plug



Broad Application
Range (LBP & MBP)



Optimal Energy
Consumption



Reduced Noise
and Vibration



R290
Green Refrigerant

→ **Premium Robustness**

The KL-Series features the tried and trusted quality of our K-Series optimized for light commercial applications

→ **Robust Solution for Food Retail and Food Service Applications**

Dedicated reliable design for bottle coolers, glass door merchandisers, and ice cream freezers (LBP and MBP applications) and suitable for food service applications

→ **Superior Efficiency**

High COP and top efficiency for light commercial applications with low GWP refrigerant propane (R290)

→ **Innovative Solution for Flammable Refrigerants**

Including a patented solution to increase robustness using propane that has been subject to extensive testing at Secop

→ **Easier Application Assembly**

New terminal board design for additional interconnections

→ **Reduced Noise Level**

Improved noise and reduced vibration, a new benchmark level for hydrocarbon refrigerants

Secop's new **KL-Series** is based on the very successful K-Series, Secop's core product for residential applications, with more than 50 million units installed. The KL-Series was developed to offer a reliable, top performing, and cost-effective solution for the next generation of light commercial cabinets using environmentally friendly refrigerant propane and offering high energy efficiency.

Secop has developed a robust series for commercial refrigeration, which integrates various technical innovations, such as a noise-reducing shell, robust suspension, a robust internal discharge tube, improved valves, optimized motors, and a new muffler for lower noise levels when using propane. The KL-Series comes with a patented hermetic terminal plug designed to increase robustness for usage with flammable refrigerants.

The KL-Series offers a reliable and robust design for commercial applications, specifically designed for R290 hydrocarbon refrigerant. This is the latest improvement on Secop's products for flammable refrigerants and will set a benchmark in the entire industry.

General	KLF4.0CND	KLF4.8CND	KLF5.6CND	KLF6.6CND	KLF7.7CND	KLF8.6CND	KLF9.6CND
Compressor	106H2401	106H2500	106H2600	106H2700	106H2800	106H2900	106H2000*
w. pre-assembled start equipment	106H2411	106H2510	106H2610	106H2710	106H2810	106H2910	106H2010*
Approvals	VDE, CCC	VDE, CCC	VDE, CCC	VDE, CCC	VDE, CCC	VDE	VDE pending

*preliminary data, to be released in 2028

Application	R290						
Application	LBP/MBP	LBP/MBP	LBP/MBP	LBP/MBP	LBP/MBP	LBP/MBP	LBP/MBP
Evaporating temperature	°C	-40 to 7.2	-40 to 7.2	-40 to 7.2	-35 to 7.2	-35 to 7.2	-35 to 7.2
Voltage range / frequency	V/Hz	198-254/50	198-254/50	198-254/50	198-254/50	198-254/50	198-254/50

Performance Data ASHRAE LBP (220 V, 50 Hz • fan cooling)

Evaporating temperature	°C	-23.3	-23.3	-23.3	-23.3	-23.3	-23.3
Cooling capacity	W	183	230	274	337	385	502
Power consumption	W	124	153	177	223	254	337
COP	W/W	1.48	1.50	1.55	1.51	1.52	1.49
Test conditions	Condensing temperature: 54.4 °C Suction gas temperature: 32.2 °C Ambient temperature: 32.2 °C Liquid temperature: 32.2 °C						

Performance Data ASHRAE MBP (220 V, 50 Hz • fan cooling)

Evaporating temperature	°C	-6.7	-6.7	-6.7	-6.7	-6.7	-6.7
Cooling capacity	W	336	410	495	596	688	870
Power consumption	W	162	199	239	296	343	453
COP	W/W	2.08	2.06	2.07	2.01	2.00	1.92
Test conditions	Condensing temperature: 54.4 °C Suction gas temperature: 35 °C Ambient temperature: 32.2 °C Liquid temperature: 46.1 °C						

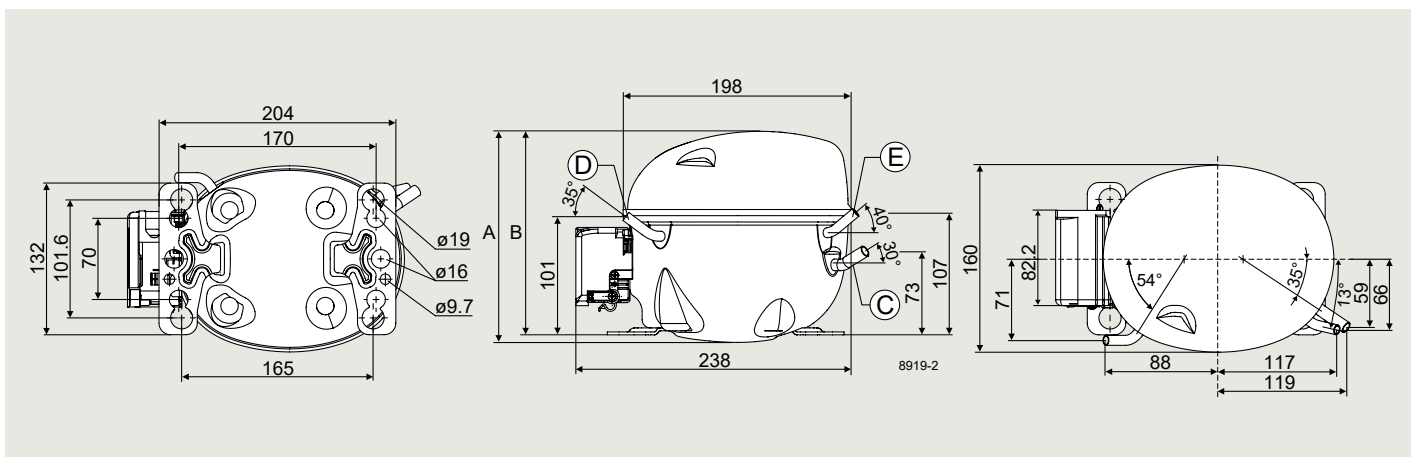
Performance Data ASHRAE MBP (220 V, 50 Hz • fan cooling • run capacitor)

Evaporating temperature	°C	-6.7	-6.7	-6.7	-6.7	-6.7	-6.7
Cooling capacity	W	337	411	501	598	694	879
Power consumption	W	157	190	231	282	327	436
COP	W/W	2.14	2.17	2.17	2.12	2.12	2.02
Test conditions	Condensing temperature: 54.4 °C Suction gas temperature: 35 °C Ambient temperature: 32.2 °C Liquid temperature: 46.1 °C						

Dimensions

Height	mm	A	182 174*
		B	175 167*
Suction connector	I.D. mm angle material seal	C	8.2 30° Copper Rubber plug
Process connector	I.D. mm angle material seal	D	6.2 35° Copper Rubber plug
Discharge connector	I.D. mm angle material seal	E	6.2 40° Copper Rubber plug
Conn. tolerance	I.D. mm		±0.09

*Applicable for the variants KLF4.0CND (106H2408) & KLF4.8CND (106H2508, 106H2518) with lower top cover
Variants with small baseplates available on request, please contact Secop for further information



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