

R290 · 200-240V | 50/60 Hz · 208-230V | 60 Hz · 200-240V | 50 Hz

SUPERIOR PERFORMANCE UNDER TOUGH WORKING CONDITIONS

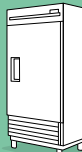
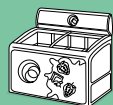
SECCP



KL-Series Tropical



Commercial Applications



Masters Voltage Fluctuations



Broad Application Range (LBP & MBP)



New Hermetic Terminal Plug



Optimal Energy Consumption



R290 Green Refrigerant

→ Premium Robustness for Tropical Conditions

The KL-CNT/CNQX types start reliably under low-voltage conditions without reverse rotation or stalling. They handle voltage fluctuations with ease and feature the proven 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 tropical **KL-CNT/CNQX** compressors were 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.

The dual-frequency CNT (50/60 Hz) types and single-frequency CNQX (50 Hz) types are designed for regions with harsh, demanding environments, where voltage fluctuations and high ambient temperatures must be considered.

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.

Tropical KL-Series compressors feature a reliable and robust design tailored for commercial applications.

With their wide operating voltage range and capability to start under low-voltage conditions – without reverse rotation or stalling – they provide an exceptional solution for demanding environments.

General	KLF3.0CNT	KLF4.0CNT	KLF4.8CNT	KLF5.6CNT	KLF6.6CNT	KLF7.7CNT	KLF7.7CNQX
Compressor	106H2302*	106H2402	106H2502	106H2602	106H2702	106H2808	106H2809
w. pre-assembled start equipment	106H2312*	106H2412	106H2512	106H2612	106H2712	106H2818	–
Approvals	UL, VDE pending	UL, VDE	UL, KC, CCC, CB	UL, KC, CCC, CB	UL, KC, CCC, CB	UL, KC, CCC, CB	VDE

*preliminary data, to be released Q3/2027

Application	R290						
Application	LBP/MBP	LBP/MBP	LBP/MBP	LBP/MBP	LBP/MBP	LBP/MBP	LBP/MBP
Evaporating temperature °C	-35 to 7.2	-40 to 7.2	-35 to 7.2	-35 to 7.2	-35 to 7.2	-35 to 7.2	-40 to 10
Voltage range / frequency V/Hz	187-254/50 195-253/60	187-254/50 195-253/60	187-254/50 198-253/60	187-254/50 198-253/60	187-254/50 198-253/60	187-254/50 198-253/60	187-254/50

Performance Data ASHRAE LBP	50 60 Hz						50 Hz
Evaporating temperature °C	-23.3	-23.3	-23.3	-23.3	-23.3	-23.3	-23.3
Cooling capacity W	120 146	189 236	229 285	271 332	334 408	395 484	395
Power consumption W	92 100	123 145	155 181	176 210	227 262	255 298	250
COP W/W	1.31 1.50	1.54 1.63	1.48 1.57	1.54 1.58	1.47 1.56	1.55 1.62	1.58
Test conditions (fan cooling) CNT: 230 V, 50/60 Hz, CNQX: 220 V, 50 Hz				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	50 60 Hz						50 Hz
Evaporating temperature °C	-6.7	-6.7	-6.7	-6.7	-6.7	-6.7	-6.7
Cooling capacity W	248 296	357 425	420 520	490 604	585 702	705 835	706
Power consumption W	124 141	168 196	203 249	238 292	303 353	350 404	344
COP W/W	2.01 2.09	2.12 2.18	2.07 2.09	2.06 2.07	1.93 1.99	2.02 2.07	2.05
Test conditions (fan cooling) CNT: 230 V, 50/60 Hz, CNQX: 220 V, 50 Hz				Condensing temperature: 54.4 °C Suction gas temperature: 35 °C Ambient temperature: 32.2 °C Liquid temperature: 46.1 °C			

Performance Data ASHRAE MBP	50 60 Hz • run capacitor						50 Hz
Evaporating temperature °C	-6.7	-6.7	-6.7	-6.7	-6.7	-6.7	-6.7
Cooling capacity W	248 297	358 427	421 511	500 616	591 709	708 845	–
Power consumption W	120 136	161 187	194 231	232 281	294 339	331 384	–
COP W/W	2.07 2.19	2.23 2.28	2.17 2.21	2.16 2.20	2.01 2.09	2.14 2.20	–
Test conditions (fan cooling) CNT: 230 V, 50/60 Hz, run capacitor				Condensing temperature: 54.4 °C Suction gas temperature: 35 °C Ambient temperature: 32.2 °C Liquid temperature: 46.1 °C			

Dimensions			
Height	mm	A	182 169* 174**
		B	175 159* 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 KLF3.0CNT (106H2302, 106H2312) with extra low top cover (only available with small baseplates).

**Applicable for the variant KLF4.0CNT (106H2409, 106H2419) with lower top cover

Varaints with small baseplates available on request, please contact Secop for further information

