

R290 · 115–127V | 60 Hz

# A NEW PREMIUM PROPANE SOLUTION FOR GREEN AND EFFICIENT CABINETS

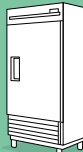
SECCOP



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                                       | KLF4.0CNH | KLF4.8CNH | KLF5.6CNH | KLF6.6CNH | KLF7.7CNH |
|-----------------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Compressor                                    | 106H3401  | 106H3500  | 106H3601  | 106H3700  | 106H3802  |
| Compressor with pre-assembled start equipment | 106H3411  | 106H3510  | 106H3611  | 106H3710  | 106H3812  |
| Approvals                                     | UL, CCC   | UL, CCC   | UL, CCC   | UL, CCC   | UL, CCC   |

| Application               | R290    |           |           |           |           |
|---------------------------|---------|-----------|-----------|-----------|-----------|
| Application               | LBP/MBP | LBP/MBP   | LBP/MBP   | LBP/MBP   | LBP/MBP   |
| Evaporating temperature   | °F      | -40 to 45 | -40 to 45 | -40 to 45 | -40 to 45 |
| Voltage range / frequency | V/Hz    | 95-140/60 | 95-140/60 | 95-140/60 | 95-140/60 |

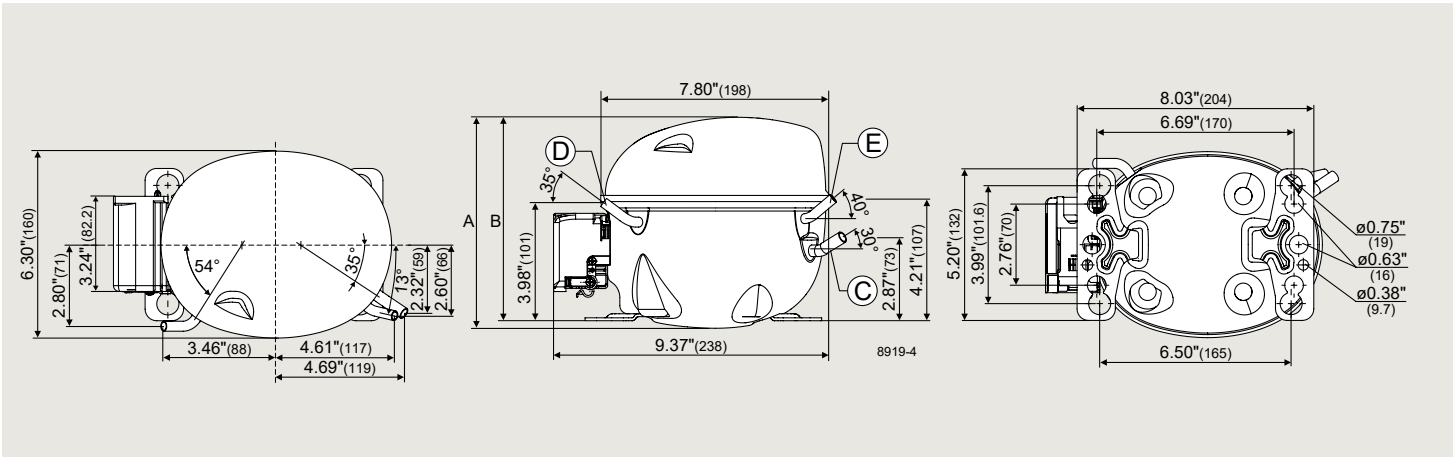
| Performance Data ASHRAE MBP (115 V, 60 Hz • fan cooling) |                                                                                                                           |      |      |      |      |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------|------|------|------|
| Evaporating temperature                                  | °F                                                                                                                        | 20   | 20   | 20   | 20   |
| Cooling capacity                                         | BTU/h                                                                                                                     | 1429 | 1735 | 2080 | 2451 |
| Power consumption                                        | W                                                                                                                         | 200  | 245  | 289  | 346  |
| EER                                                      | BTU/Wh                                                                                                                    | 7.14 | 7.07 | 7.20 | 7.09 |
| Test conditions                                          | Condensing temperature: 130 °F   Suction gas temperature: 95 °F   Ambient temperature: 90 °F   Liquid temperature: 115 °F |      |      |      |      |

| Performance Data ARI 540   MBP (115 V, 60 Hz • fan cooling) |                                                                                                                           |      |      |      |      |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------|------|------|------|
| Evaporating temperature                                     | °F                                                                                                                        | 20   | 20   | 20   | 20   |
| Cooling capacity                                            | BTU/h                                                                                                                     | 1355 | 1639 | 1953 | 2316 |
| Power consumption                                           | W                                                                                                                         | 189  | 236  | 274  | 333  |
| EER                                                         | BTU/Wh                                                                                                                    | 7.16 | 6.96 | 7.13 | 6.95 |
| Test conditions                                             | Condensing temperature: 120 °F   Suction gas temperature: 65 °F   Ambient temperature: 95 °F   Liquid temperature: 120 °F |      |      |      |      |

| Performance Data CECOMAF MBP (115 V, 60 Hz • fan cooling) |                                                                                                                           |      |      |      |      |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------|------|------|------|
| Evaporating temperature                                   | °F                                                                                                                        | 14   | 14   | 14   | 14   |
| Cooling capacity                                          | BTU/h                                                                                                                     | 1134 | 1372 | 1653 | 1941 |
| Power consumption                                         | W                                                                                                                         | 193  | 234  | 276  | 329  |
| EER                                                       | BTU/Wh                                                                                                                    | 5.88 | 5.87 | 5.99 | 5.91 |
| Test conditions                                           | Condensing temperature: 131 °F   Suction gas temperature: 90 °F   Ambient temperature: 90 °F   Liquid temperature: 131 °F |      |      |      |      |

| Dimensions          |                                            |   |                                         |
|---------------------|--------------------------------------------|---|-----------------------------------------|
| Height              | mm                                         | A | 7.17   6.85*                            |
|                     |                                            | B | 6.89   6.57*                            |
| Suction connector   | location/I.D. inch   angle material   seal | C | 0.32-0.33   30°<br>Copper   Rubber plug |
| Process connector   | location/I.D. inch   angle material   seal | D | 0.25-0.26   35°<br>Copper   Rubber plug |
| Discharge connector | location/I.D. inch   angle material   seal | E | 0.25-0.26   40°<br>Copper   Rubber plug |

\*Applicable for the variant KLF4.0CNH (106H3408) with lower top cover



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