

CONTROL YOUR COLD CHAIN MOBILE EFFICIENCY FOR VAN BOXES

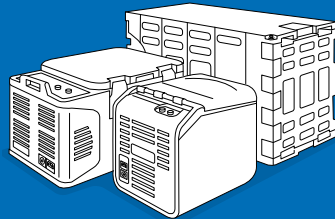
SECCP



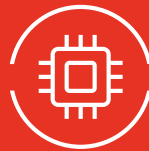
BD50F / BD80F / BD250GH.2



Mobile Applications



Variable-Speed Efficiency



Premium Controllers



Wide Application Range



Effective Solutions



Energy Saving

- Vans can be purchased in a standard model without requiring additional body modifications. The van remains versatile and can be used for other purposes when not transporting refrigerated goods.
- A streamlined van design can be maintained, reducing wind resistance and leading to lower energy consumption and CO₂ emissions.
- Easier resale value due to the van's unmodified structure and no hygiene concerns related to the vehicle itself.
- The refrigeration box is mobile and can be handled separately. It can serve as an additional refrigerator and be loaded directly into a cooling or freezer room.
- Refrigeration functions even when the engine is off with simplified operation and maintenance.
- Both battery power and AC utility can be used via a converter.
- Easy customization via Tool4Cool®

The most cost-effective and efficient solution for small-scale transport is a mobile refrigeration unit that can be easily mounted on cars and vans and powered by the vehicle's own battery. Savings of 30% are possible by building a flexible, battery driven refrigeration system that follows food to the end of the cold chain.

The advantages of this solution are evident. The vehicle remains unmodified, and the cabinets can be easily transferred between vehicles. Additionally, with the use of an AC/DC converter, they can operate on AC power when the engine is off. These systems are highly energy-efficient and can be custom-built in various sizes to accommodate specific storage needs.

Moreover, an expensive, impractical, specially adapted refrigerated van is no longer the only option on the market. In recent years, mobile cooling solutions have become increasingly competitive, offering more economical, practical, and efficient alternatives. This makes them the most flexible and cost-effective solution for complying with HACCP guidelines.

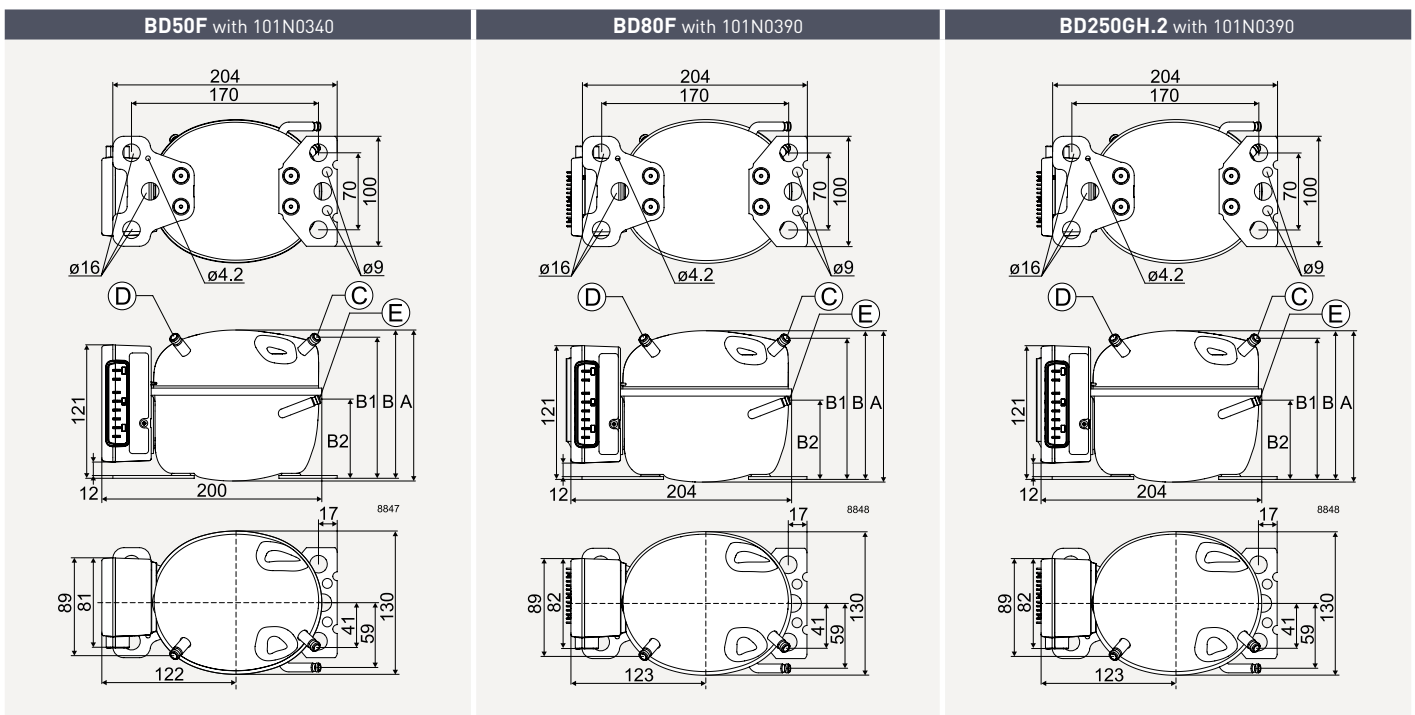
| General | BD50F (R134 • R1234yf) | BD80F (R134 • R1234yf) | BD250GH.2 (R134a) |
|---|------------------------|------------------------|-------------------|
| Compressor | 101Z1220 | 101Z0280 | 101Z0406 |
| Electronic unit - AEO | 101N0340 | - | - |
| Electronic unit - AC/DC Converter | 101N0510 | - | - |
| Electronic unit - High Speed (with AEO) | - | 101N0390 | 101N0390 |

| Application | | LBP/MBP/HBP | LBP | LBP/MBP/HBP |
|-------------------------|-----|--|--|--|
| Application | | | | |
| Evaporating temperature | °C | -30 to -5 (0) | -30 to -5 | -25 to 15 |
| Voltage range | | 12-24 V DC (9.6-17.0, 21.3-31.5 V DC) 100-240 V AC, 50/60 Hz | 12-24 V DC (9.6-17.0, 21.3-31.5 V DC) | 12-24 V DC (9.6-17.0, 21.3-31.5 V DC) |
| Speed range | rpm | 2000-3500 | 2500-4400 | 2500-4400 |

| Performance Data ASHRAE LBP | | 3,500 rpm • static cooling | | | | 4,400 rpm • static cooling | | | | 4,400 rpm • static cooling | | | |
|-----------------------------|---|----------------------------|------|------|------|----------------------------|-----|------|------|----------------------------|------|------|------|
| Evaporating temperature | °C | -30 | -20 | -10 | -5 | -30 | -20 | -10 | -5 | -25 | -20 | -10 | 0 |
| Cooling capacity | W | 46 | 88 | 152 | 194 | 68 | 130 | 218 | 274 | 76 | 109 | 194 | 311 |
| Power consumption | W | 45 | 68 | 91 | 104 | 66 | 100 | 138 | 161 | 65 | 78 | 104 | 132 |
| Current consumption | A | 3.9 | 5.6 | 7.6 | 8.7 | 2.8 | 4.2 | 5.8 | 6.7 | 2.7 | 3.2 | 4.1 | 5.3 |
| COP | W/W | 1.01 | 1.29 | 1.68 | 1.89 | 1.02 | 1.3 | 1.58 | 1.71 | 1.18 | 1.39 | 1.88 | 2.36 |
| Test conditions | Voltage: 12 V DC, Condensing temp.: 54.4 °C Suction gas temp.: 32.2 °C Ambient temp.: 32.2 °C Liquid temp.: 32.2 °C Performance data measured with R134a (R1234yf values for BD50F and BD 80F are similar) | | | | | | | | | | | | |

| Performance Data EN 12900/CECOMAF | | 3,500 rpm • static cooling | | | | 4,400 rpm • static cooling | | | | 4,400 rpm • static cooling | | | |
|-----------------------------------|---|----------------------------|------|------|------|----------------------------|------|------|------|----------------------------|------|------|------|
| Evaporating temperature | °C | -30 | -20 | -10 | -5 | -30 | -20 | -10 | -5 | -25 | -20 | -10 | 0 |
| Cooling capacity | W | 37 | 71 | 123 | 157 | 55 | 105 | 176 | 221 | 61 | 87 | 156 | 251 |
| Power consumption | W | 45 | 68 | 91 | 104 | 66 | 100 | 138 | 161 | 65 | 78 | 104 | 132 |
| Current consumption | A | 3.9 | 5.6 | 7.6 | 8.7 | 2.8 | 4.2 | 5.8 | 6.7 | 2.7 | 3.2 | 4.1 | 5.3 |
| COP | W/W | 0.82 | 1.04 | 1.35 | 1.51 | 0.83 | 1.05 | 1.27 | 1.37 | 0.94 | 1.11 | 1.51 | 1.89 |
| Test conditions | Voltage: 12 V DC, Condensing temp.: 55 °C Suction gas temp.: 32 °C Ambient temp.: 32 °C Liquid temp.: no subcooling Performance data measured with R134a (R1234yf values for BD50F and BD 80F are similar) | | | | | | | | | | | | |

| Dimensions | | A | | 137 | |
|---------------------|---|---------------------------|--|---------------------------------------|--|
| Height | mm | B / B1 / B2 | | 135 / 128 / 73 | |
| Suction connector | location/I.D. mm angle material seal | C | | 6.2 40° Cu-plated steel Al cap | |
| Process connector | location/I.D. mm angle material seal | D | | 6.2 45° Cu-plated steel Al cap | |
| Discharge connector | location/I.D. mm angle material seal | E | | 5.0 21° Cu-plated steel Al cap | |
| Connector tolerance | I.D. mm | ±0.09, on 5.0 +0.12/+0.20 | | | |



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