Secop strives to be the first choice for partners searching for leading-edge refrigeration solutions and premium customer experience.

Secop is committed to delivering advanced refrigeration compressors and controls, offering customers tailored sustainable solutions for light commercial, battery-driven, and special cooling applications.

**BD COMPRESSORS**

**FOR EXTREME CONDITIONS**

**STABLE**
Portable beyond limits and reliable operation even when tilted up

**12 | 24 | 48 V DC Compressors**
Applicable for mobile applications and multiple voltages with minimum energy consumption and maximum performance

**VARIABLE SPEED DRIVE**

**MOBILE COOLING**

**NATURAL REFRIERGANT**

www.secop.com

Sustainable Cooling Solutions
**BD COMPRESSORS BRING COMFORT AT WORK AND LEISURE**

The direct current compressors BD35F/50F/80F for 12/24 V DC power supply can be used in mobile refrigerators and freezers with refrigerant R134a. The BD250GH 2 and the BD350GH compressors in 12/24 or 48/12 V DC versions are R134a HBP compressors used for mobile spot cooling systems or telecommunication cooling. BD35/50K (R600a) and BD80/100CN (R290) are compressors that use HFC-free refrigerants.

All compressors are equipped with an electronic unit with built-in protection against shortages, operation outside temperature limits, and destructive battery discharge. The advanced micro-controller technology enables new functions such as an electronic thermostat, fan speed, ECO function, alarm log, event log, and software main switch.

Second to none – even cooling “without power supply”

Thanks to an extensive voltage range the BD compressors are ideal for mobile freezers by solar power. The exceptionally low-starting current eliminates the need for batteries if an ice bank is used for energy storage. When storing the converted sun energy in ice packs, the cabinet can be kept at desired temperatures both night and day. This feature offers numerous uses in areas without power supply such as for the storage and transportation of vaccines, ice cream stands in holiday resorts, food preservation under off road conditions, and refrigerators in boats to name only a few.

**BD1.4F-AUTO.3 (BD Micro)**

The BD1.4F-AUTO.3 is the latest generation of BD Micro compressors specially designed for high-end car campers. It features an optimized noise level and is also approved for refrigerant R1234yf.

**BD1.4F-VSD.3 (BD Micro Variable Speed Drive)**

The BD1.4F-VSD.3 (new BD Micro generation with optimized noise generation by solar powered) R1234yf is 60% smaller than previous models and weights in only 2.3 kilograms. Perfect for 10-30 liter in car, van, boat cabinets, or portable boxes that need to fit into tight spaces without compromising storage space. This powerhouse of a compressor makes it easier than ever to provide leading-class mobile refrigerators.

Enabling the variable speed function increases the system’s COP. Low energy consumption is good for car, boat, or van batteries as well as the environment. The optimized, low-noise motor ensures outstanding performance for offering that extra degree of luxury on the go.

The electronic thermostat (NTC sensor support) provides an accurate temperature within the failure detection allows fast fault diagnosis. The computer interface makes it easier for customization.

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**COMPRESSORS**

<table>
<thead>
<tr>
<th>Code numbers</th>
<th>R134a</th>
<th>R134a**</th>
<th>R600a**</th>
<th>R290***</th>
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<tbody>
<tr>
<td>BD1.4F-AUTO.3</td>
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<td>–</td>
<td>12V DC</td>
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<tr>
<td>BD1.4F-AUTO.3****</td>
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<td>12V DC</td>
<td>–</td>
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<td>BD1.4F-VSD.2</td>
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<tr>
<td>BD1.4F-VSD-HD</td>
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<td>–</td>
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**Power consumption [W] at max. speed**

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**Evaporating temperature [°C]**

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**Applications**

- Truck refrigerators
- Bus refrigerators
- Portable boxes
- Car refrigerators (high end)
- Car refrigerators (mid-range)
- Spat cooling (e.g. trucks)
- Van boxes
- Battery cooling
- Solar cabinets

*R134a/R1234yf. **R600a. ***R290. ****R1234yf.
BD80 / 100CN
R290, -40°C, -10°C evap. temp.
Freezer applications, solar-powered applications, ice cream boxes up to 200 l, 20-164 W / 31-209 W cooling capacity*.

BD35K Multivoltage and BD50K
R600a, -30°C, +10°C evap. temp.
Solar-powered applications, etc., 100-250 l coolers, 13-242 W cooling capacity*. BD35K can be powered with AC and DC, 85-240 V AC 50/60 Hz, 12-24 V DC, automatic selection of AC when available.

BD1.4F-AUTO.3 and BD1.4F-VSD.3
R134a/R1234yf, -30°C, +5 and +15 / 0°C evap. temp.
In-car cabinets and all mobile applications for portable boxes, boats, trucks, etc., 14-108 W and 7-218 W / 5-85 W cooling capacity*.

BD350GH
R134a, -25°C, +15°C evap. temp.
Tailored for spotcooling systems in sleeping compartments in trucks, caravans, golf buggies, etc., 85-786 W cooling capacity*.

BD250GH.2
R134a, -25°C, +15°C evap. temp.
Designed for cabin cooling in trucks during nighttime, very silent operation, 31-446 W cooling capacity*.

BD35F/50F Multivoltage
R134a, -30°C, +10°C evap. temp.
All mobile applications for portable boxes, boats, trucks, etc., can be powered with AC and DC, 85-240 V AC 50/60 Hz, 12-24 V DC, automatic selection of AC when available, 15-152 W / 20-191 W cooling capacity*.

BD35F / 50F / 80F Basic
R134a, -30°C, +10°C evap. temp.
All mobile applications for portable boxes, boats, trucks, solar-powered applications, etc., 15-152 W / 20-191 W / 35-221 W cooling capacity*.

TOOL4COOL® Software
Tool4Cool® is a unique PC software tool that enables you to precisely configure your Secop BD compressors to your cooling systems. Via microprocessor-based controllers, Tool4Cool® gives you easy access to all parameters. These can be changed, monitored, downloaded or uploaded to get the optimum performance out of your cooling system.

* EN12900 / CECOMAF conditions: Condensing temp.: 55°C | Suction gas temp.: 32°C | Ambient temp.: 32°C | Liquid temp.: no subcooling