WE HAVE MORE THAN 35 YEARS OF EXPERIENCE DEVELOING DIRECT CURRENT COMPRESSORS AND HELPING CUSTOMERS BENEFIT FROM THE OPPORTUNITIES OF MOBILE REFRIGERATION TECHNOLOGY.

WITH A DEEP INSIGHT OF THE USAGE ACROSS VARIOUS APPLICATIONS WE HAVE EARNED A POSITION AS MARKET LEADER, WORKING WITH OEM-CUSTOMERS.

BD COMPRESSORS FOR EXTREME CONDITIONS

DIRECT CURRENT COMPRESSORS APPLICATION ALSO WITH MULTIPLE VOLTAGES WITH MINIMUM ENERGY CONSUMPTION AND MAXIMUM PERFORMANCE.

STABLE

PORTABLE BEYOND LIMITS RELIABLE OPERATION EVEN WHEN TILTED UP.
**BD compressors bring comfort at work and leisure**

Modern comfort is brought into life when leaving home. As people go mobile, so does food. The excellent performance of the BD series safeguards food preservation. With our outstanding DC compressors for cars, vans, boats, trucks, etc., Secop has transcended the barriers for mobile refrigeration.

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 V DC versions are R134a HBP compressors used for mobile spot cooling systems or telecommunication cooling. BD35K (R600a) and BD80/100CN (R290) compressors can be used with 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 like: electronic thermostat, fan speed, ECO function and software main switch.

Second to none – even cooling without power supply

Thanks to an exceptional voltage rate the BD compressors are ideal for solar energy supply. The exceptionally low starting currents eliminate the need for current batteries if an ice bank is used for energy storage. When storing the sun energy in ice packs the cabinet can be kept at desired temperatures both night and day.

This feature opens for numerous uses in areas without power supply like storage and transportation of drugs, ice cream stands in holiday resorts, food preservation under off road conditions, refrigerators in boats to name only a few. Secop BD compressors mean: extraordinary performance at minimum power consumption, super silent running, reliable operation even when tilted up to 30 degrees, problem-free operation at 12/24/48 volts and more than 30 years’ experience in mobile refrigeration. Transport stable, speed/capacity stable, multifunctional electronic, silent, high COP and compact design.

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**Compressors R134a / R404A/R507 * R600a **, R290 ***

<table>
<thead>
<tr>
<th>Compressors</th>
<th>Code numbers</th>
<th>Capacity [W] at max. speed **** EN12900 Household/CCECOMAF</th>
<th>ASHRAE Evaporating temperature [°C]</th>
</tr>
</thead>
<tbody>
<tr>
<td>BD35F /-B /-HD</td>
<td>101Z1200 /0204 /0205 /0206</td>
<td>-40</td>
<td>-35</td>
</tr>
<tr>
<td>BD50F</td>
<td>101Z1200 /0203</td>
<td>35</td>
<td>41</td>
</tr>
<tr>
<td>BD80F</td>
<td>101Z1200 /0204</td>
<td>35</td>
<td>41</td>
</tr>
<tr>
<td>BD250GH.2</td>
<td>101Z1200 /0205</td>
<td>121</td>
<td>197</td>
</tr>
<tr>
<td>BD350GH (24V)</td>
<td>101Z1200 /0206</td>
<td>121</td>
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</tr>
</tbody>
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**Compressors R134a / R404A/R507 * R600a **, R290 ***

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**Please refer to the individual compressor data sheets for the complete application range.**
BD1.4F-VSD (Variable Speed Drive)

Lose excess weight and use the extra space for what really matters. The new BD1.4F-VSD from Secop is 60% smaller than previous models and weighs in at only 2.3 kilos. Perfect for 10-30 litre in car/ van/boat cabinets or portable boxes that need to fit into tight spaces without compromising storage space. Specially designed for maximum efficiency and reliability this powerhouse of a compressor makes it easier than ever to provide leading class mobile fridges. Enabling the variable speed function increases the system’s COP. Low energy consumption is good for car/ boat/ van batteries – as well as the environment. The optimized, low noise motor ensures outstanding performance when you want to provide that extra degree of luxury on the move. The electronic thermostat (NTC sensor support) provides an accurate temperature while the failure detection allows a fast fault diagnosis. The computer interface makes it easier for customization. Cool beverages on demand make moving so much more of an experience.

BD35F-HD & BD1.4F-VSD-HD (Heavy Duty)

BD35F-HD and BD1.4F-VSD-HD are new versions which can handle extreme vibrations.

BD35F-B (Bus-optimized)

The BD35F-B is a special version optimized for rough vehicle motions, especially in buses.

BD1.4F-FSD (Fixed Speed Drive)

The new BD1.4F-FSD is a cost-optimized variant of our BD-Micro series which is perfect for portable boxes.
**BD80/100CN**  
R290, -40°C, -10°C evap. temp.  
Stationary freezer application (not approved for vehicles), solar-powered systems, ice cream boxes up to 200 l, 20-164 W / 31-209 W cooling capacity*.

**BD35K**  
R600a, -30°C, +10°C evap. temp.  
Stationary application, solar-powered vaccine coolers etc., 100-200 l coolers, 13-128 W cooling capacity*.

**BD1.4F-AUTO and BD1.4F-VSD/-FSD**  
R134a, -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 Single or Twin**  
Configuration  
R134a, -25°C, +15°C evap. temp.  
Tailored for spotcooling systems in sleeping compartments in trucks, caravans, golf buggies etc., 85-786 W single 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 / 20-191 W cooling capacity*.

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

**BD350GH Single or Twin**  
Configuration  
R134a, -30°C, +10°C evap. temp.  
Tailored for spotcooling systems in sleeping compartments in trucks, caravans, golf buggies etc., 85-786 W single 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.*

*CECOMAF conditions

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**OUR JOURNEY**

**SO FAR**

**1956**  
Production facility and headquarters in Flensburg, Germany founded.

**1958**  
Start of production for PW compressors.

**1970**  

**1972**  
Introduction of TL and BD compressors.

**1977**  
Introduction of NL compressors.

**1979**  
Introduction of PL compressors.

**1983**  
Production with natural refrigerant R22 (freon) (ISO approved).

**1989**  
Introduction of OS compressors.

**1990**  
Introduction of NL compressors.

**1992**  
Start of production with natural refrigerant R290 (propane).

**1993**  
Introduction of PL compressors.

**1999**  
Start of production with natural refrigerant R600a (isobutane).

**2002**  
Production facility in Zate, Moravia, Slovakia founded.

**2005**  
Introduction of GS compressors.

**2008**  
Production facility in Wajing, China founded.

**2009**  
Introduction of OS compressors.

**2010**  
Introduction of SLV-CN-K.2 and SLV-CLK.2 variable speed compressors.

**2013**  
Introduction of the XV compressor - opening a new chapter in refrigeration history.

**2015**  
New generation of energy-efficient propane compressors.

**2016**  
New variable speed platforms for household and light commercial applications.

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