BD COMPRESSORS FOR EXTREME CONDITIONS

12 24 48

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

NIDECA GLOBAL APPLIANCE

www.secop.com
**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 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 using 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, alarm log, event log and software main switch.

Second to none – even cooling "without power supply"

Thanks to an extensive voltage rate the BD compressors are ideal for solar energy supply.

The exceptionally low starting current eliminates 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 offers 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.

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### Compressors

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<th>Compressors</th>
<th>Code numbers</th>
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<th>Evaporating temperature [°C]</th>
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<td>101Z0403 /004</td>
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<td>BD1.4F-AUTO.3</td>
<td>109Z0201 /02</td>
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**** Please refer to the individual compressor data sheets for the complete application range.

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Thanks to an extensive voltage rate the BD compressors are ideal for solar energy supply.

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This feature offers 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.
**BD1.4F-VSD.2 (Variable Speed Drive)**

The new BD1.4F-VSD.2 from Nidec GA Compressors 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 refrigerators.

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.

**BD35F-HD.2, BD250GH.2-HD, BD1.4F-VSD-HD (Heavy Duty)**

BD35F-HD.2, BD250GH.2-HD [48V] 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.

**BD50K (Isobutane, R600a)**

The new BD50K offers 25% additional cooling capacity compared to the BD35K compressor.
**BD80/100CN**  
R290, -40°C, -10°C evap. temp.  
Freezer application, solar-powered systems, ice cream boxes up to 200 L, 20-164 W / 31-209 W cooling capacity*.

**BD35K/50K**  
R600a, -30°C, +10°C evap. temp.  
Solar-powered applications, etc., 100-250 L coolers, 13-242 W cooling capacity*.

**BD1.4F-AUTO.3 and BD1.4F-VSD.2**  
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**  
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, etc., 15-152 W / 20-191 W / 35-221 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*.

**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.*

**OUR JOURNEY SO FAR**

1956  
Production facility and headquarters in Flensburg, Germany founded.

1958  
Start of production for PW compressors.

1960  
Production facility in Crnomelj, Slovenia founded.

1968  
Start of production for FR compressors.

1972  
Introduction of KL compressors.

1977  
Introduction of TL and BD compressors.

1978  

1979  
Introduction of NL compressors.

1982  
Start of production with natural refrigerant R600a (isobutane).

1989  
Introduction of FV compressors.

1990  
Introduction of NL compressors.

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

1993  
Start of production with natural refrigerant R600a (isobutane).

1997  
Production facility in Zlate Moravce, Slovakia founded.

1999  
Production facility in Wuqing, China founded.

2002  
Introduction of SLX-CNK.2 and SLX-CLK.2 variable speed compressors.

2005  
Introduction of GS compressors.

2007  
Production facility in Zlate Moravce, Slovakia founded.

2008  
Production facility in Zlate Moravce, Slovakia founded.

2010  
Introduction of SLX-CNK.2 and SLX-CLK.2 variable speed compressors.

2012  
Introduction of SLV-CNK.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.

Low  
Cooling Capacity  
High

**HOUSEHOLD**

**LIGHT COMMERCIAL**

**AC**

P-Series  
T-Series  
DELTA  
X-Series  
D-Series  
KAPPA  
N-Series  
F-Series  
S-Series  
G-Series

**DC**

BD Micro  
BD P-Housing  
BD T-Housing

**DC-POWERED**