

BD NANO-SERIES FOR MOBILE COOLING

SECOP

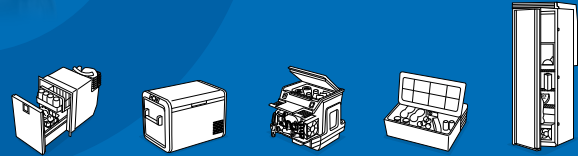
Features of Compressor and Controller:

- Compact size
- Premium high efficiency
- Extending battery operation time
- Protection against electromagnetic interference
- Improved acoustic comfort
- Miniaturized new motor
- Improved connectivity
- Latest generation of microcontrollers with additional features
- LIN communication, Modbus protocol



Target Applications

- Truck and bus
- Automotive passenger car
- Recreation vehicles
- Maritime appliances
- Medical and healthcare
- Portable boxes



Low Noise

Reduced noise and vibrations



Variable-Speed Efficiency

High performance and efficiency



Premium Controllers

New 32-bit microcontroller



Low GWP Refrigerants

BDN45F: refrigerant R1234yf



Natural Refrigerants

BDN50K: green refrigerant R600a



Small Footprint

Compact and robust



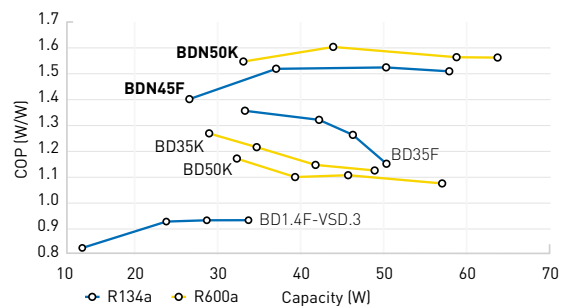
SMALL FOOTPRINT



The extreme compact BD Nano (40% shorter, 67% lighter in comparison - controller included) provides the same cooling capacity as much bigger BD35F / 50F / 35K / 50K compressors yet with unrivaled efficiency.



EFFECTIVE SOLUTIONS



- **Two Available Options** – BDN45F: R134a / R1234yf and BDN50K: R600a (natural refrigerant)
- **Compact Size** – Even more compact than a BD Micro compressor for more capacity in the cabinet
- **Robust Design for Mobile Applications** – Reduced knocking and improved stability during transport
- **Premium High Efficiency** – Greater energy savings, reduced total cost of ownership (TCO), and extending battery operation time
- **Protection Against Electromagnetic Interference (EMI)** –

Designed for reduced emissions and increased immunity against external sources

- **Tailor-Made Configurations** – Optimized hardware / software for recreational and automotive applications
- **Extended Cooling Capacity** – Replaces larger compressors, thereby extending the range of applications
- **Reduced Noise and Vibrations** – Improved acoustic comfort for noise-sensitive applications
- **Multiple Compliance Options** – Regulatory compliance and environmentally friendly R1234yf or R600a refrigerants