

# BD NANO-SERIES FOR MOBILE COOLING

**SECOOP**

## 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
- 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



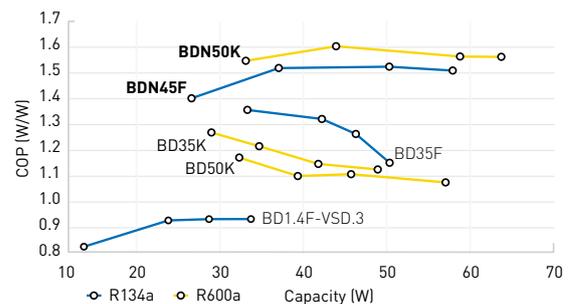
## SMALL FOOTPRINT



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: R1234a / 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