



Mobile Cooling Solutions

View Features



BD Nano Compressors

View Features



BD Micro Compressors

View Features



BD-P Compressors



Mobile Cooling Solutions



R600a · R1234yf · R134a · 12–24 VDC

BD Nano Compressors

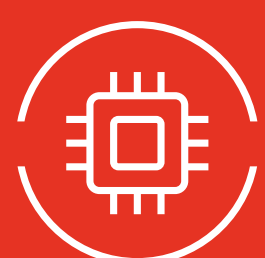
New Battery-Driven Solution – Smaller and More Efficient

- **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
- **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
- **Premium High Efficiency**
Greater energy savings, reduced total cost of ownership (TCO), and extending battery operation time
- **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

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Variable-Speed
Efficiency



Premium
Controller




Low Noise
Low Vibration



Low GWP
Refrigerants




Small
Footprint

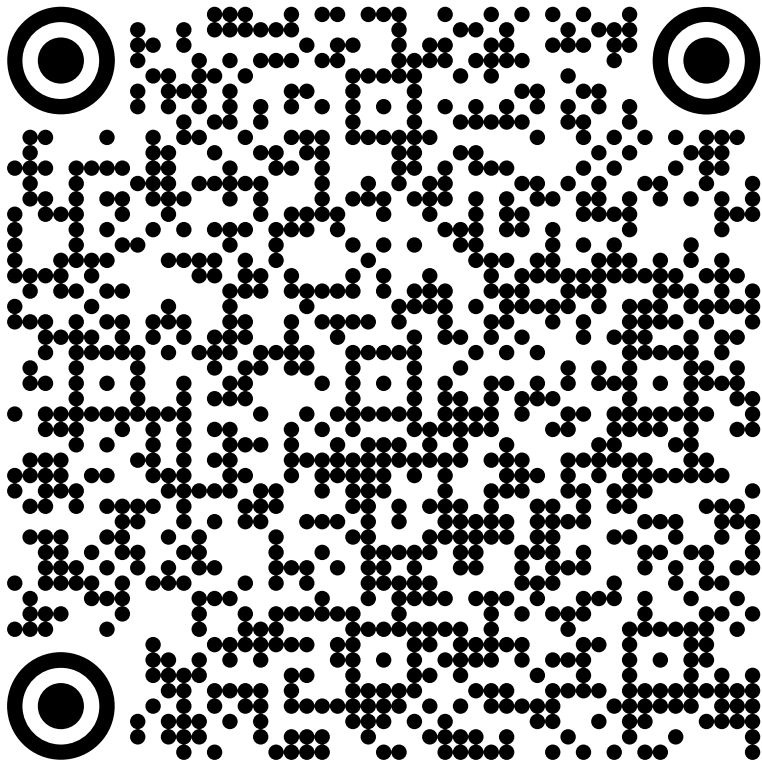
 **Mobile Cooling Solutions**



BD Nano Compressors

New Battery-Driven Solution – Smaller and More Efficient

Series	Displacement (cm ³)	LBP (W) ASHRAE	MBP (W) ASHRAE	HBP (W) ASHRAE	Refrigerants	Use
 BD Nano	0-10 1.42-2.6	0-300 28-69	0-500 63-139	0-1000	R600a R134a R1234yf	Mobile Medical



Learn more about the **BD Nano Compressors**



Mobile Cooling Solutions



R600a · R1234yf · R134a · 12–24 VDC

BD Micro Compressors

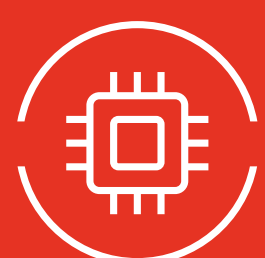
Complexity Down – Flexibility Up

- **Automotive Ready**
Automotive components matching requirements and standardised processes (e.g. PPAP, IMDS)
- **Low Electromagnetic Interference**
EMI designed for controlled emissions and immunity against external sources
- **Compact and Powerful**
One compressor covering all applications: LBP, MBP, and HBP
- **Benchmark in the Automotive Market**
Setting the standard in the car and truck market for 10 years
- **Heavy Duty Version**
HD variant can handle extreme vibrations, proven in truck applications for many years (BD1.4F-VSD-HD)
- **BD Micro Automotive**
The BD1.4F-AUTO.3 with its dedicated controller is optimized for applications in the automotive segment

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Variable-Speed
Efficiency



Premium
Controller



Wide Application
Range



Small
Footprint

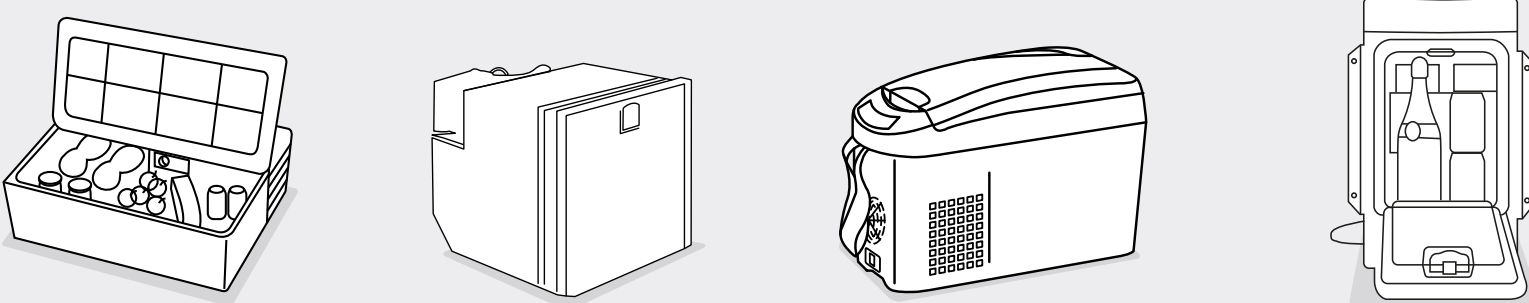



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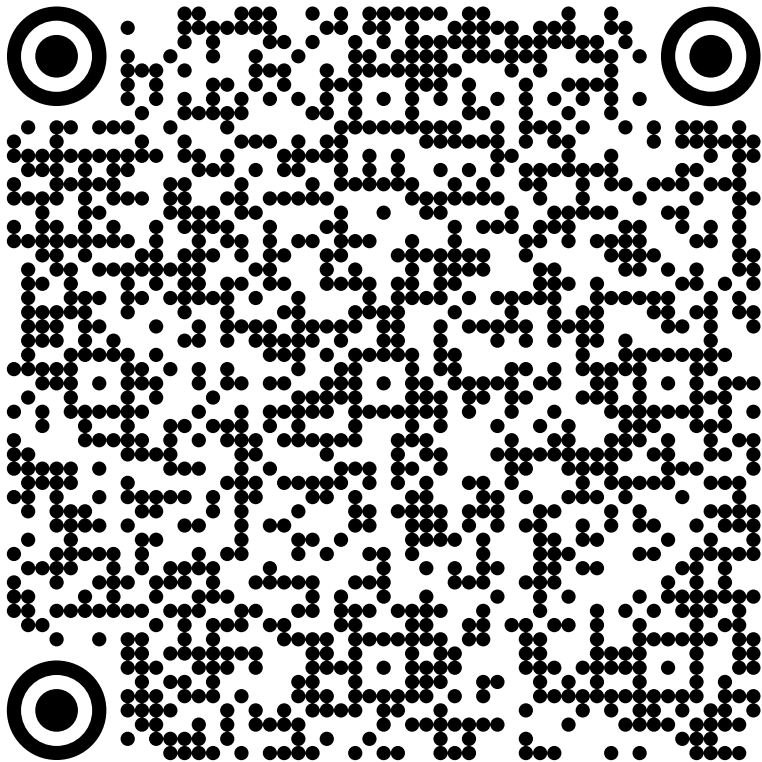


BD Micro Compressors

Complexity Down – Flexibility Up



Series	Displacement (cm ³)	LBP (W) ASHRAE	MBP (W) ASHRAE	HBP (W) ASHRAE	Refrigerants	Use
 BD Micro	0-10	0-300	0-500	0-1000	R134a R1234yf	Mobile
	1.41	13-34	42-94	83-173		Medical



Learn more about the **BD Micro Compressors**



Mobile Cooling Solutions



R600a · R290 · R170 · R1234yf · R134a · 12-24VDC · 48VDC · 110-240V | 50/60Hz

BD-P Compressors

DC Compressors with the Highest Versatility

→ Universal Voltage Options

Unique BD compressor available worldwide in AC and DC for cars and trucks and solar applications

- DC voltage: 12/24 V, and 48 V
- AC voltage: 110-240V at 50/60 Hz

→ Multi Refrigerant

Compressors using either HFC or HC refrigerants (hydrocarbons, e.g. propane and isobutane)

- BD80CN, BD100CN use R290
- BD35K, BD50K use R600a

→ Heavy Duty Versions

HD variants can handle extreme vibrations, proven in truck applications for many years (BD35F-HD.2 and BD250GH.2-HD)

→ Resistant to Vehicle Motions

B special versions are optimized for rough vehicle movements, even outside urban areas, especially for use in buses (BD35F-B and BD35K-B)

→ Ultra-Low Temperature

The MP2UVULTM version (ethane R170) was developed for medical cold cooling with variable-speed technology

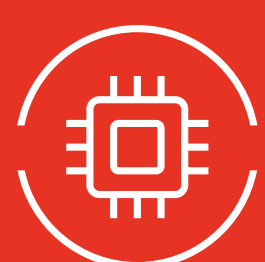
→ Medical ULT Condensing Unit

The combination of MP2UVULTM and BD100CN is used in a 2-stage speed-controlled compressor ULT cascade system

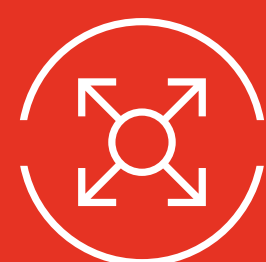
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Variable-Speed
Efficiency




Premium
Controller



Wide Application
Range




Low GWP
Refrigerants

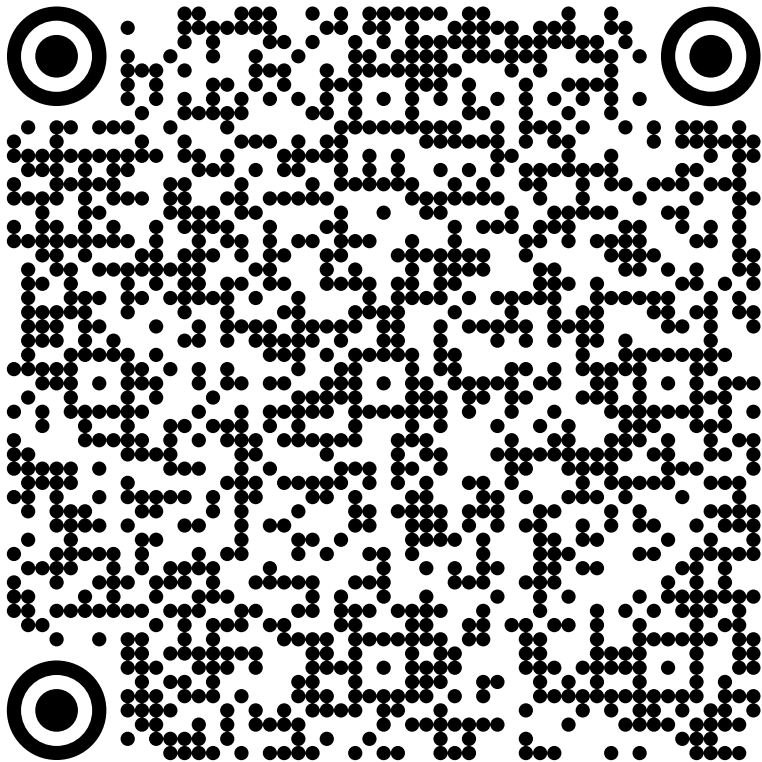
 **Mobile Cooling Solutions**



BD-P Compressors

DC Compressors with the Highest Versatility

Series	Displacement (cm ³)	LBP (W) ASHRAE	MBP (W) ASHRAE	HBP (W) ASHRAE	Refrigerants	Use
 BD-P	0-10 2-3	0-300 29-71	0-500 65-223	0-1000 115-390	R134a · R1234yf R600a · R290 R170	Mobile Medical



Learn more about the **BD-P Compressors**