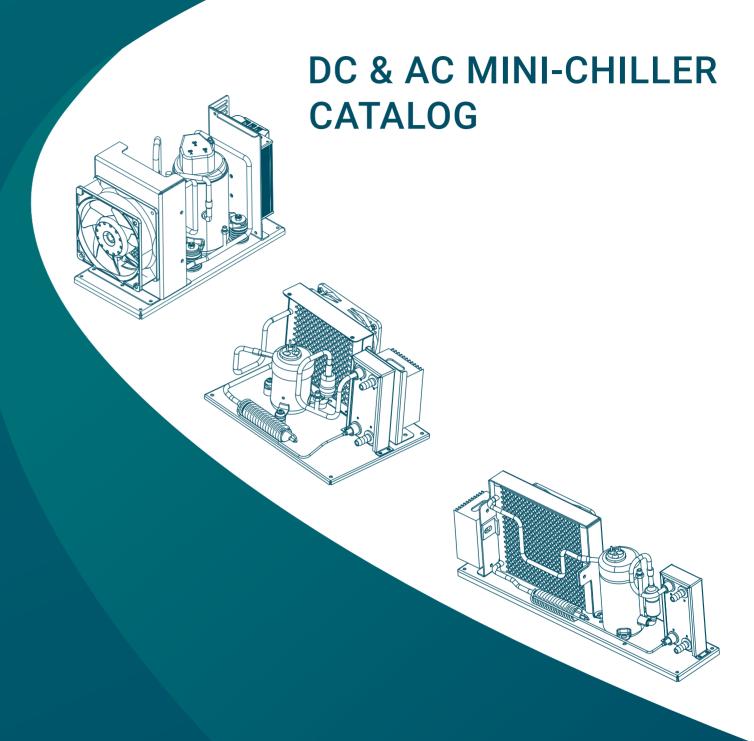
PARTNER BRANDS



BOYARD SYSTEMS CO., LTD.

sales@boyard.com

www.boyard.com



BOYARD



ABOUT BOYARD

Boyard, formerly Zhejiang Boyang, is a pioneer and the innovator of rotary compressors and systems for refrigeration, cooling and heat pump applications. Founded in 2001, the company has established its global reputation for highly differentiated, high quality rotary compressors with a low-vibration twin-cylinder technology.

In recent years, the global demand for Boyard's compressors has grown immensely alongside industry demands. These demands include energy-efficient cooling systems in semiconductor-testing and processing cooling, more compact and durable refrigeration for mobile applications, and HVAC cooling solutions for medical and personal comfort applications.

Recognized for pioneering rotary compressor technology in commercial and mobile refrigeration, Boyard is consistently trusted by OEM customers. Boyard continues to expand its global presence to address ever-changing customer-needs for stationary and mobile refrigeration equipment, and ultimately save energy and cost for its customers.







MILESTONES





WHY BOYARD



TRUSTED COMPANY

- Boyard designs and manufactures owncompressors and systems
- Audit or plant tour is welcomed, online tour available
- Provide HVAC solution to Haier Carrier
- Trusted by global brands such as Haier Carrier, Panasonic, Daikin,



TURNKEY TECHNICAL SERVICES

- Systems customization and simulation
- Validation test: Capacity/ NVH
- Controller matching and testing
- Mainboard matching service



OEM/ODM CUSTOMIZATION

- Boyard provides fast and reliable customization and validation service
- Online meetings available



MANUFACTURING CAPACITY

ISO9001 & ISO16949 Certifications



FAST DELIVERY

- Sample within 30 days
- Order delivery within 30 days



REFRIGERATION & HVAC

- 3rd decades since entering HVAC industry
- Deep expertise in most demanding cooling applications such as medical, process cooling, and commercial refrigeration



WARRANTY ASSURANCE

- 24 months warranty
- Post-sales technical services



PRODUCT APPLICATION

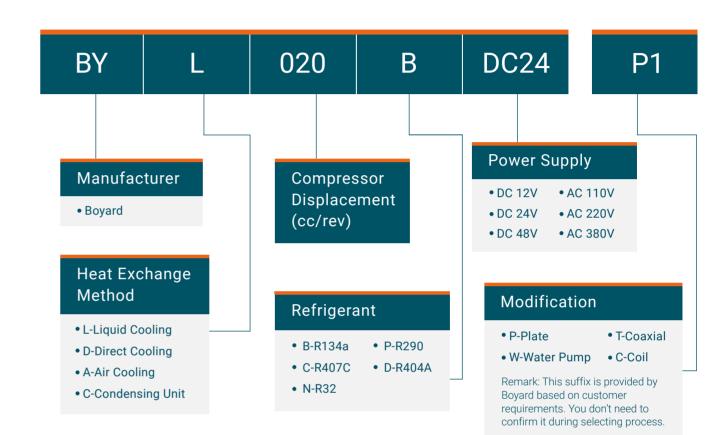


NOMENCLATURE









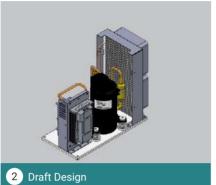




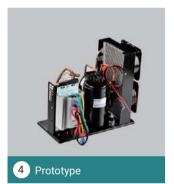


CUSTOMIZATION FOR YOUR APPLICATION NEEDS















TESTING CAPABILITY







Endurance Testing

Cooling Capacity Testing

Performance Testing

TECHNICAL STRENGTH



Three-dimensional Design Model

Computer aided design system includes: Solid Works, Catia, Solid Edge, AutoCAD



Machine Design

Motion analysis and design simulation



Finite Element Analytical Model

Structural analysis to achieve optimal function values



Mould flow Analysis

An analysis used to determine the characteristics of plastic parts



Rapid Prototyping

Quickly achieve art to part functionality



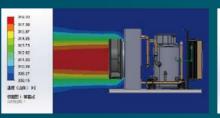
Thermal Energy System Demonstration

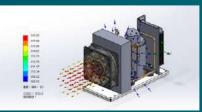
Predict the heating and cooling effects of air conditioning systems



CFD (Computational fluid dynamics analysis)

Prediction of air flow and heat exchange in air conditioning units and ducts





COOLING CAPACITY RANGE Cooling Capacity Heat Exchange Displacement Power Refrigerant method **Supply** (cc/rev) 100W 200W 300W 400W 500W 600W 700W 800W 900W 1000W 1100W 1200W 1300W 1400W 1500W 1600W 1700W 1800W 2.0 3.0 4.0 DC12V 7.5 Liquid Cooling Direct Cooling 4.0 DC24V R134a Air Cooling Condensing Unit 11.6 15.0 2.0 DC48V 4.0 11.6 15.0

PRODUCT FEATURES



Cooling Methods

- Direct expansion
- Liquid chiller
- Air chiller



Quiet Operation

- Special design features to minimize vibration and noise
- Twin-cylinder DC compressors available for larger capacity



Compact and efficient

- Designed for limited space
- Variable-capacity cooling with DC Micro-Compressor



DC & AC Power

- DC 12V, DC 24V, DC 48V, DC 96V, DC 312V
- AC 220V 50 Hz, 115V 60Hz

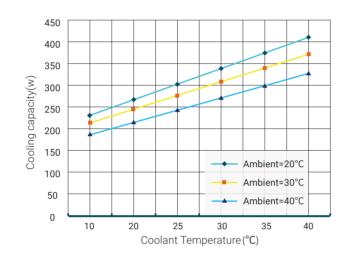


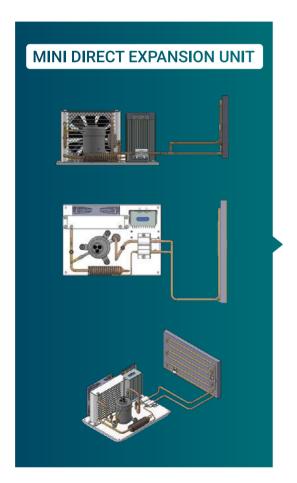
High reliability

- Risk prevention design philosophy
- 20 years HVAC system manufacturing experience
- Strict 100% inline test of performance and leakage
- Strict components sourcing

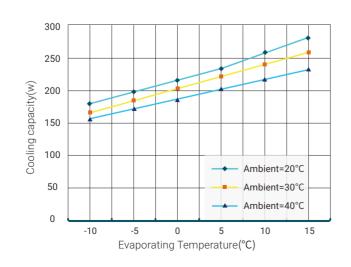


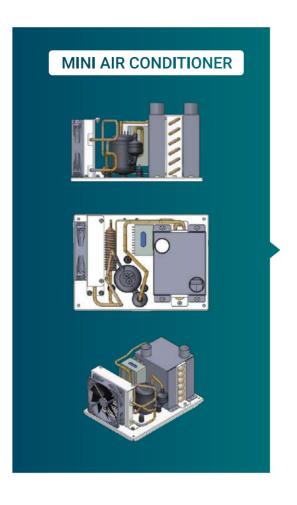
Specifications	BYL020BDC24
Compatible Fluids	Water, Water/Glycol Mix
Coolant Temperature	0°C∽50°C
Maximum Power Draw	216W
Voltage	DC 24V
Maximum Current	9A
Noise	<50dBA
Dimensions	250×180×138mm
Orientation	<300
Weight	2.8Kg
Operating Ambient Temperature	0°C∽50°C
Storage Temp	-20°C∽50°C



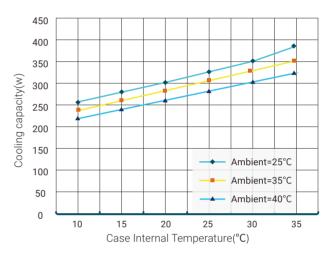


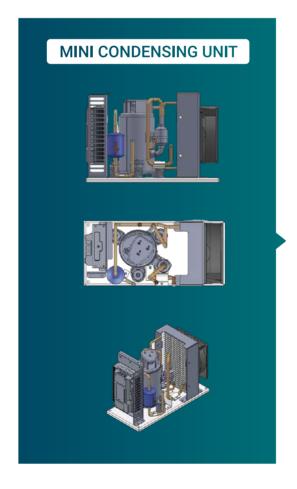
Specifications	BYD020BDC24
Refrigerant	R134a
Temperature Range	-15°C∽25°C
Maximum Power Draw	216W
Voltage	DC 24V
Maximum Current	9A
Noise	<50dBA
Dimensions	250×180×138mm
Orientation	<30°
Weight	5Kg
Operating Ambient Temperature	0°C∽50°C
Storage Temp	-20°C∽50°C





Specifications	BYA020BDC24
Refrigerant	R134a
•	
Temperature Range	0°C∽50°C
Maximum Power Draw	240W
Voltage	DC 24V
Maximum Current	10A
Noise	<50dBA
Dimensions	280×200×170mm
Orientation	<30°
Weight	7Kg
Operating Ambient Temperature	0°C∽50°C
Storage Temp	-20°C∽50°C





Specifications	BYC075BDC24
Refrigerant	R134a
Maximum Power Draw	300W
Voltage	DC 24V
Maximum Current	13A
Noise	<50dBA
Dimensions	350×160×235mm
Orientation	<30°
Weight	10Kg
Operating Ambient Temperature	0°C∽50°C
Storage Temp	-20°C∽50°C

