MINIATURE COMPRESSOR

THE FUTURE OF COMPACT & PORTABLE COOLING

RIGID Rotary Mimi Compressors (12V, 24V, 48V DC)

are exceptional compact and achieve extra ordinary power capacity. Its small, high-perform brushless compressor-the size of a child's fist. Current models capacity range from 100W to 550W under standard ASHRAE conditions, using a single cylinder configuration.

With 12V, 24V, and 48V configurations ad R134a refrigerants, these compressors can be used in a wide range of Refrigeration and Air Conditioning conditions in LBP, MBP, and HBP applications.

The mini battery compressors are starting a new trend in various compact mobile cooling systems as well as mobile and small foot-print countertop appliances where space and weight are important.

Furthermore, the Sine Wave controller (Patent Technology) provides variable speeds and high efficiency and assures compressor stability.
CONVENTIONAL VS RIGID

CONVENTIONAL

Reciprocating BLDC COMPRESSOR in current market: larger, heavier and small capacity.

RIGID'S NEW PATENT

Only 1/17th of the volume, 1/11th of the weight than reciprocating compressor. While cooling capacity and efficiency are Twice more than conventional reciprocating compressor.

Just imagine what you can do with our ultra compact, yet powerful and high efficient rotary dc compressor to drastically improve your small applications and equipment!
RIGID FACTORY

RIGID is an innovative refrigeration solution provider specialize in manufacture, R&D and marketing of miniature compressor and small cooling modules. Our products are widely used in vehicle, hospital, medical, Aesthetic... for both air conditioning and refrigeration applications where space and weight are the most important.

* Skilled Workers
* Dust-Free Plant
* Automatic Production Line
POWERFUL COMPRESSOR
DC 12V/24V/48V

Refrigerant: R134A
Compressor: Rotary & Inverter

Features:
1. Ultra Small Size.
2. Various Speed range 2000~6000rpm.
3. Charged by Battery, Solar Power & Car Power
CONDENSING UNIT
DC 12V/24V/48V

Size: 25 x 15 x 17cm
Power Supply: BLDC 12V, 24V and 48V;

Features:
Small size & Ultra compact;
Brushless DC inverter Compressor;
Available for LBP, MBP and HBP systems;
Power Charge: Battery, grid or solar power;

Applications:
Refrigeration Cycle Systems
Portable Cooling Systems
Mini-Chilled Water Systems
Electronics Cooling Systems
Miniature Refrigeration/Aircon Systems
Medical & Cosmetic & Aesthetic Equipment
POWERFUL

Capacity ranges from 100W to 500W under condition ASHRAE condition...
HIGH EFFICIENT

Performance rivals that of much larger standard compressors...

QX1901VD COP (W/W)

Evaporation Temp. (°C)
-23.3
-1.1
1.67
7.2
10
18.33

COP (W/W)

- 5000
- 4500
- 4000
- 3500
- 3000
- 2000
QUIET

40dBA to 50 dBA noise level compete with OEM products...
WORLD'S SMALLEST

Only a child's fist size, upwards 1/7 weight, 1/12 volume of standard compressor...
THAT'S IT! SMALL!

Palm Size! Big Performance...
EASILY INTEGRATED

Versatile design enables flexibility for customs applications...
APPLICATION

These groundbreaking compressors are ideally suited for mobile and portable refrigeration and air-conditioning, such as medical & aesthetic & cosmetic cooling, precision electronics & instrument, and in numerous personal & commercial refrigerations, where space and weight are the most important.

- Firefighting & Military & Welding Miniature Refrigeration
- Portable Cooling System & Beverage Cooling
- Electric Car Aircon
APPLICATION

Vaccine Refrigerator

Portable Refrigerator

Yacht Freezer

Ice Maker

Water Dispenser

Precision Equipments
APPLICATION

Electronic * Laser * LED

Fire fighting * Body Cooling
COMPACT LIQUID CHILLER SYSTEM

Rigid has been looking for novel solutions, we are creative and capture new technologies. Our success is based on continuous involvement in research and development.

Miniature Liquid Chiller Modules for Portable Cooling

Product Details

Click here!
LCM OPERATING PRINCIPLE

Rigid circulatory cooling units are self-contained high-efficient refrigeration compressor with R134A coolant, smallest condenser and evaporator, filter drier and driver board etc. All these refrigeration parts are all well integrated in one unit, sophisticated design by our skilled engineers. It serves as a source of chilled water for circulation through the water pipes, and the unit has smallest footprint and weight make it portability.