

MESA COMPRESSOR

DC-POWERED VARIABLE SPEED MICRO-ROTARY COMPRESSORS



Our Mesa family of compressors are the perfect choice for small DC-powered refrigerators used in recreational vehicles, buses, trains, trucks and boats, as well as medical and telecommunications applications. The Mesa compressor is rugged, light-weight and can fit the installation requirements of limited spaces.

COMPACT

Micro/Mini rotary BLDC compressors one fourth the size of conventional compressors, the perfect fit for DC-powered refrigerators in embedded applications.

ECO-FRIENDLY

Planned to be A2L R-1234yf, and natural refrigerant R-290 compatible.

REDUCED ENERGY

High-efficiency motors combined with variable speed technology, result in intelligent cooling and energy consumption reduction to achieve industry leading EERs.

QUIET OPERATION

Stable and low vibration mechanisms coupled with reduced friction cylinder components minimize noise to meet standards application requirements.

12/24/48 VDC POWER SUPPLY

Best fit for electrical vehicles and easy connected to batteries.

COMPRESSOR INFORMATION

COOLING CAPACITY:* HBP: From 134 to 451 Watts

APPLICATION: HBP: -20°C to 25°C

REFRIGERANT: Available: R-134a / Planned: R-1234yf, R-290

POWER SUPPLY: 12, 24 and 48 VDC

CONSUMPTION:

- Max Power: 132 Watts (12V) / 209 Watts (24V) / 201 Watts (48V)
- Max Current: 11A (12V) / 8,72A (24V) / 4,2A (48V)

DIMENSIONS: 120x77mm / Height: 82mm

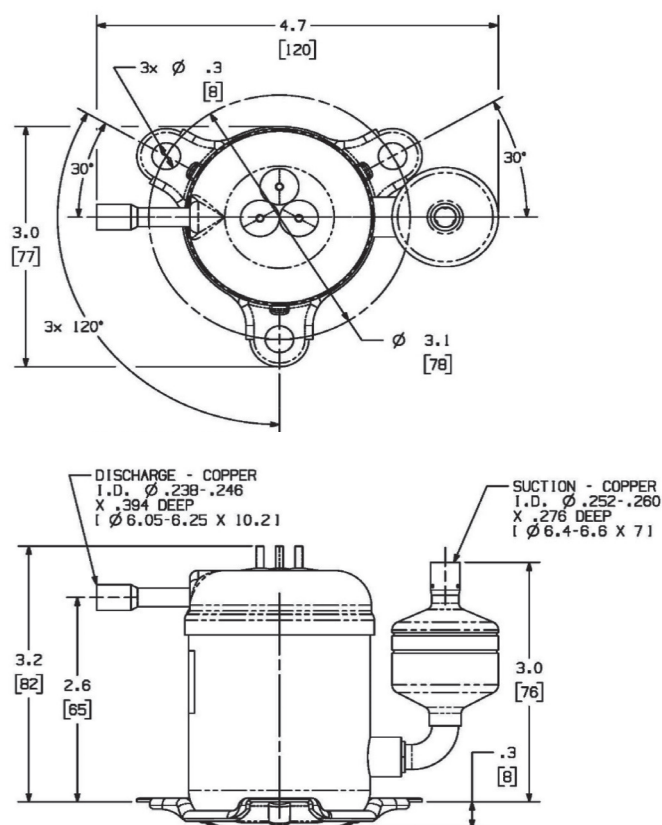
WEIGHT: 1.76 lb / .80 kg

*HIGH / AIR CONDITIONING: Performance rated at 7.2°C evap., 54.4°C cond., 11.1°C superheat, 8.3°C subcooling, 35°C ambient.

CONTROLLER INFORMATION

- COMPRESSOR INITIATION & OPERATION
- VARIABLE SPEED CONTROL
- LOCKED-ROTOR PROTECTION
- LIMITS POWER & CURRENT DRAW
- PROVIDES DIAGNOSTIC INFORMATION
- THERMAL PROTECTION & SHUTDOWN OF COMPRESSOR AND CONTROLLER
- LOW-VOLTAGE & HIGH-VOLTAGE SHUTDOWN
- SPEED CONTROL: 0-3V or PWM signal

COMPRESSOR DIMENSIONS

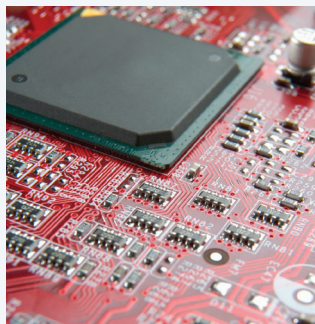


MESA APPLICATIONS

MICRO AIR CONDITIONING



ELECTRONICS



MOBILE CONTAINERS



MEDICAL/SCIENTIFIC



SOLAR/OFF-GRID POWER



LIQUID CHILLERS



REFRIGERATORS



LASER COOLING

