



Tecumseh

- ▶ Micro and mini size
- ▶ AC & DC ranges
- ▶ Quiet
- ▶ Variable speed

MESA / ATLAS

Mesa & Atlas Compressors. Small sizes. Big difference.

KEY FEATURES AND BENEFITS

▶ Compact:

Tecumseh has reduced the weight and the size of the rotary compressor to about a 350 ml soda can. which is one-fourth of the size of a conventional compressor.

▶ Dual power supply option:

Voltage ranges available from 24 to 48 VDC, and 100 to 220 VAC.

▶ Quiet operation:

Stable / low vibration mechanism and reduced friction cylinder components minimize noise.

▶ Reduced energy:

The new Micro/Mini Rotary compressors combine high efficiency motors with optimized pumping mechanisms resulting in industry leading compressor EERs.



APPLICATIONS

Some of these applications are listed below:

- ▶ Automotive (Individual A/C Systems)
- ▶ Bus / RV Refrigerators
- ▶ Truck / Boat Refrigerators
- ▶ Truck Parking Cooler (No-Idle)
- ▶ Home Appliances
- ▶ Aircraft Cooling
- ▶ Telecommunications Cooling
- ▶ Medical





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COMPRESSOR INFORMATION

Capacity range*:

- LBP: from 111 to 318 Watts
- HBP/LBP: from 111 to 556 Watts

Refrigerant:

- R134a

Application(s):

- LBP temperature: -40°C to -12.2°C
- Air conditioning temperature: -25°C to +20°C



Application Code Table		
Application Code	Evaporator Temperature	Rating Point
3	HBP	7.2°C
4	HBP/LBP	7.2°C / -23.3°C



Voltages Available (DC)	
24	48
Mesa	■ ■
Atlas	
■	
Voltages Available (AC)	
100	220
Mesa	■ ■ ■

Refrigerant		
Code Table	Mesa	Atlas
Y	R134a	■ ■ ■

Voltage Code Table	
VOLTAGE CODE	NOMINAL VOLTAGE RANGE DC
17	48 VDC
18	24 VDC
19	100 VDC
20	200 VDC

Compressor Model Naming Convention

The Masterflux model naming convention is very simple. A sample model and the breakdown of each of the parts is shown below. Please remember that a model may have several different part numbers depending on the particular configuration.



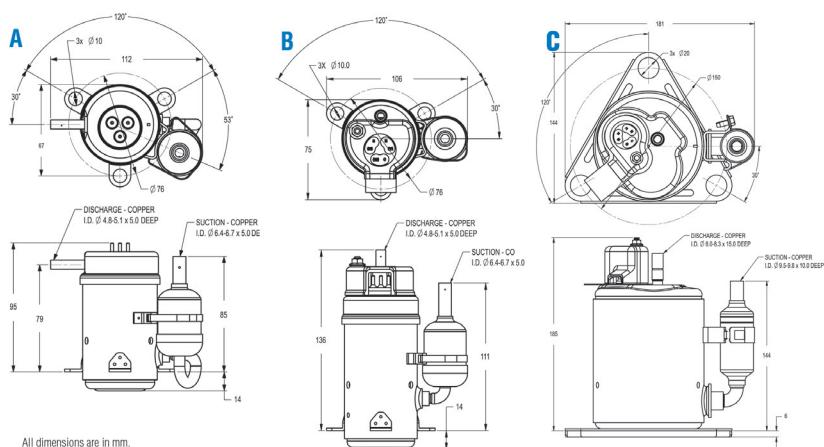
*LOW / FREEZER: performance rated at -23.3°C evap., 49°C cond., 27.4°C superheat, 0°C subcooling, 35°C ambient.
HIGH / AIR CONDITIONING: performance rated at 7.2°C evap., 54.4°C cond., 11.1°C superheat, 8.3°C subcooling, 35°C ambient.

CONTROLLER INFORMATION

Voltage range: 16-32 VDC, 42-60 VDC, 85-130 VAC, 196-299 VAC.

Key features:

- Start and Run the compressor
- Locked-Rotor protection
- Thermal protection
- Speed control
- Power and current control
- Provide diagnostic information
- Low and high voltage shutdown



All dimensions are in mm.

NW00179

For more information on products by Tecumseh, please visit our website www.tecumseh.com