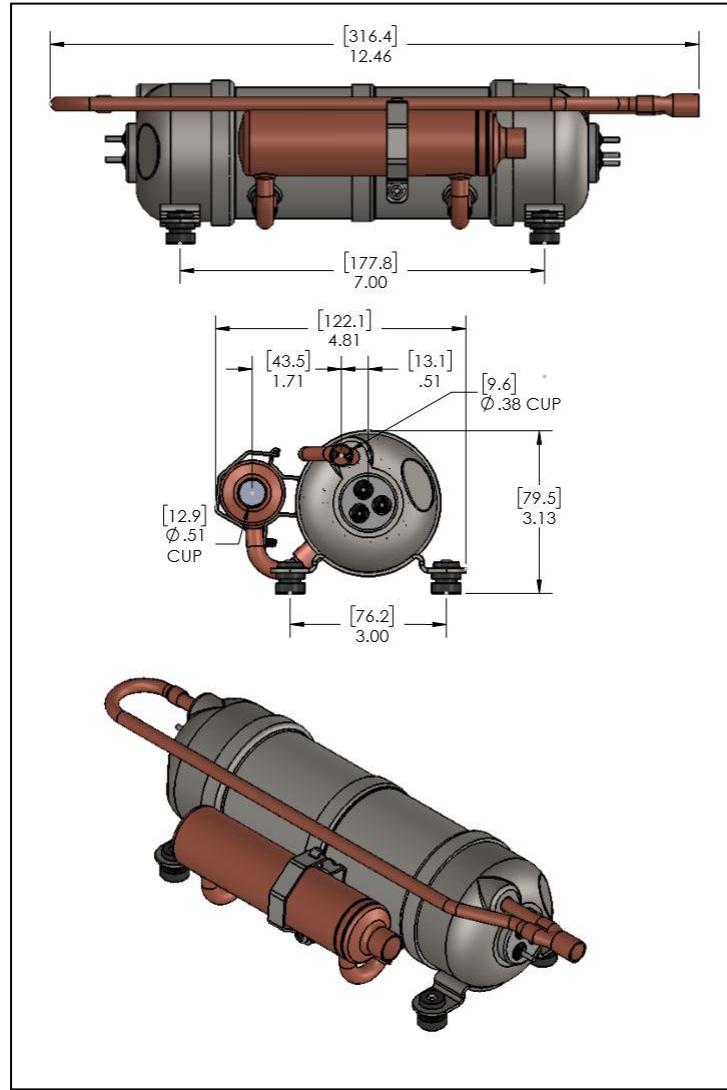


Horizon Series Model, H56: Low Height / Low Vibration / Low Noise Horizontal, Rotary BLDC Refrigeration Compressor

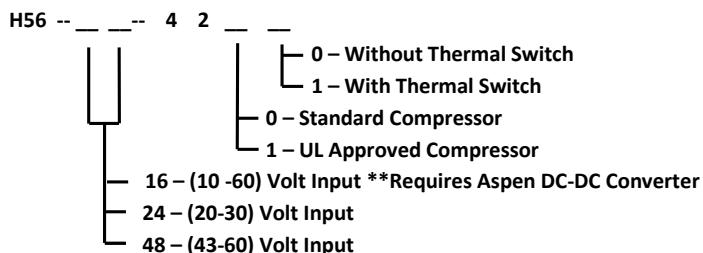
Worldwide patents pending



| Compressor Specifications | |
|---------------------------|--|
| Refrigerant | R134a / R404a / R410a / R290 / R600a / R1234YF |
| Oil Type | Consult Factory |
| Oil Quantity | 115 cc's |
| Motor / Drive | BLDC / Sensorless |
| Speed Range | 1200 – 6500 RPM |
| Evaporator Temp. Range | -22~75°F (-30~24°C) |
| Max Condensing Temp. | 160°F (71°C) |
| Max Discharge Temp. | 212°F (100°C) |
| Max Ambient Temp. | 120°F (49°C) |
| Max Dome Temp. | 212°F (100°C) |
| Max Operating Pressure | 350 psi (2.4 MPa) |
| Suction Port Size | 1/2" ID Cup |
| Discharge Port Size | 3/8" ID Cup |
| Cooling Capacity | Varies With Refrigerant See Capacity Tables |
| Noise Level @ 1 meter | ~ 40 dBA |
| Weight | ~ 2380g |



Compressor Ordering Guide



Sample Order # H56 - 24 - 4201

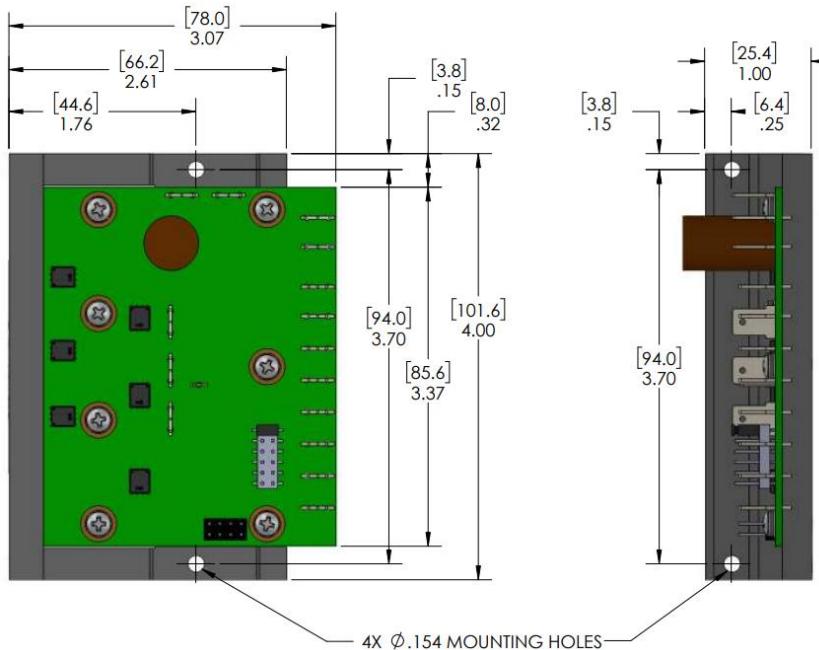
**Description – 5.6cc Compressor
(20-30) Volt Input
Standard Compressor
With Thermal Overload Switch**

Compressor Application Notes:

1. Compressor is supplied with 115 cc's of oil. Additional oil will be required if operating compressor in systems with long tubes, large heat exchangers or internal surfaces that can trap oil and prevent adequate return to the compressor.
2. Recommended airflow over compressor is 1 meter/sec.
3. **If replacing an older Aspen Compressor, consult with Aspen Engineering for compatibility as oil types have changed to accommodate new HC refrigerants**

ASPEN Quiet Sinusoidal BLDC Drive & DC-DC Converter

Universal Quiet Sinusoidal Drive

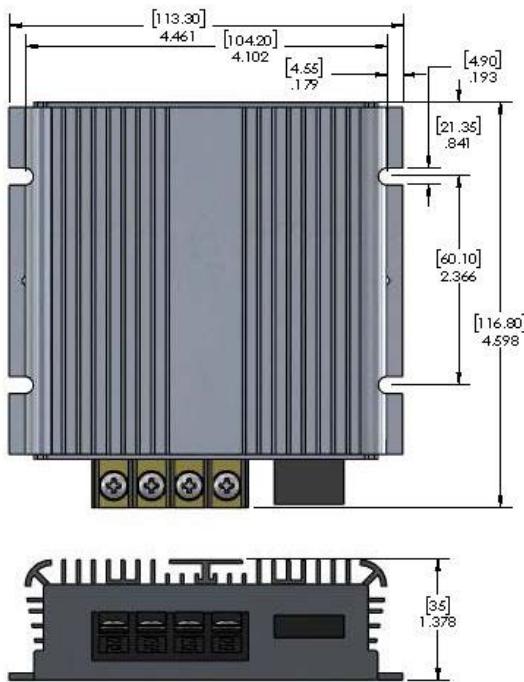


Drive Board Options

| Input Voltage | Max Current |
|---------------|-------------|
| 20-30V | 30A |
| 43-60V | 20A |
| 10-60V** | 20-80A** |

Requires use of Aspen DC-DC Converter in conjunction with Compressor Drive. Max current based on voltage input

DC-DC Converter



Compressor Drive & Converter Application Notes:

1. Drive Board is conformally coated, however, care should be taken to prevent operation in corrosive or wet environments. Drive board is thermally protected, however, airflow over the drive board/ converter and heat sink is highly recommended.
2. Maximum current to the compressor is automatically limited by the drive board by reducing the compressor speed as the current approaches set limits.