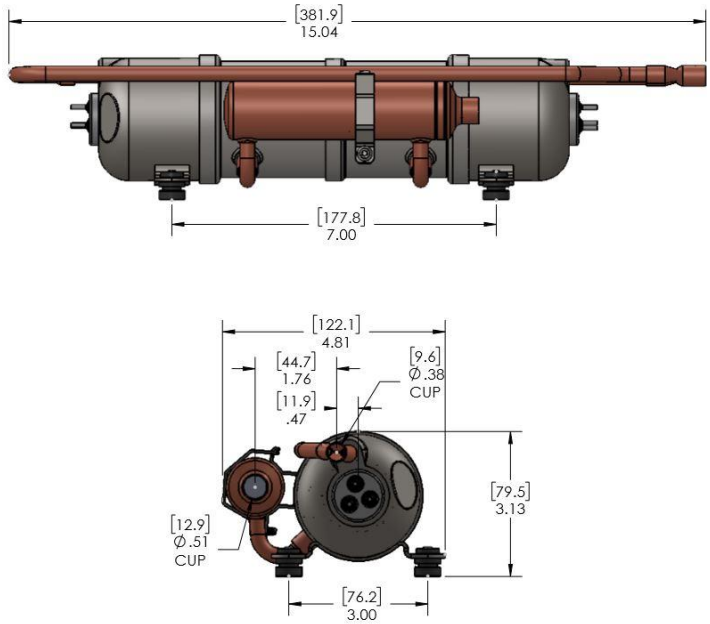
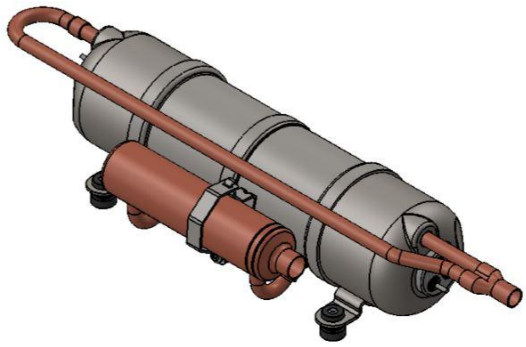
Horizon Series Model, H76:
Low Height / Low Vibration / Low Noise
Horizontal,Rotary BLDC Refrigeration Compressor

Worldwide patents pending

Compressor Specifications	
Refrigerant	R134a / R404a / R410a / R290 / R600a / R1234YF
Oil Type	Consult Factory
Oil Quantity	130 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	~ 3200g





Compressor Ordering Guide

H76 -- __ __-- 4 2 __ __

- __ __: 16 – (10 -60) Volt Input **Requires Aspen DC-DC Converter; 24 – (20-30) Volt Input; 48 – (43-60) Volt Input
- 4: 0 – Standard Compressor; 1 – UL Approved Compressor
- 2: 0 – Without Thermal Switch; 1 – With Thermal Switch

Sample Order # H76 - 24 - 4101
Description – 7.6cc Compressor
(20-30) Volt Input
Standard Compressor
With Thermal Overload Switch

Compressor Application Notes:

1. Compressor is supplied with 130'ccs of oil. Addition 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**

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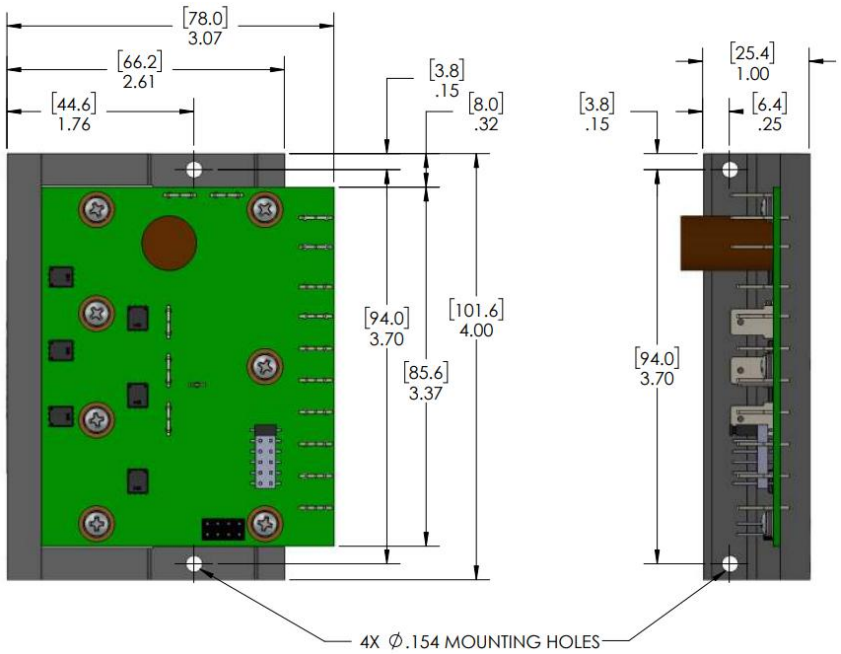
ASPEN Quiet Sinusoidal BLDC Drive & DC-DC Converter

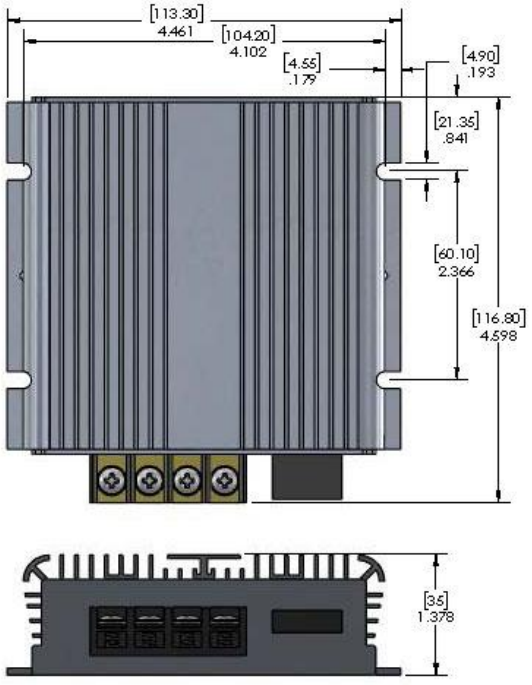
Universal Quiet Sinusoidal Drive



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.

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