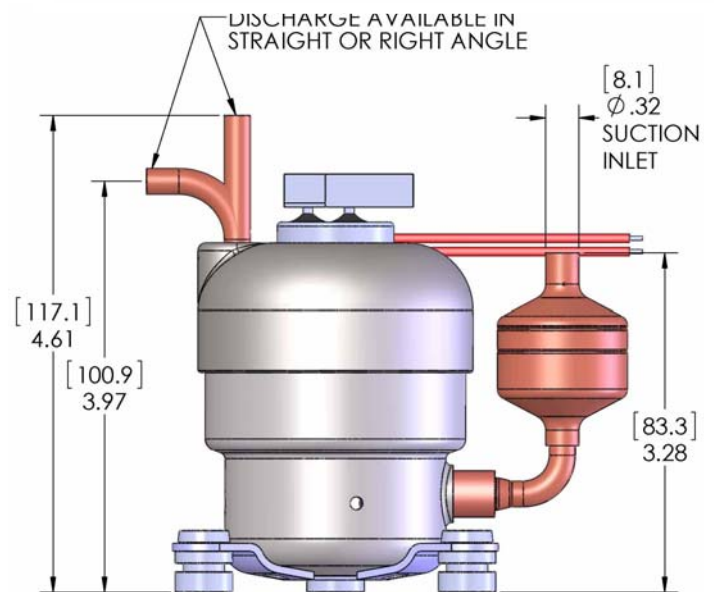
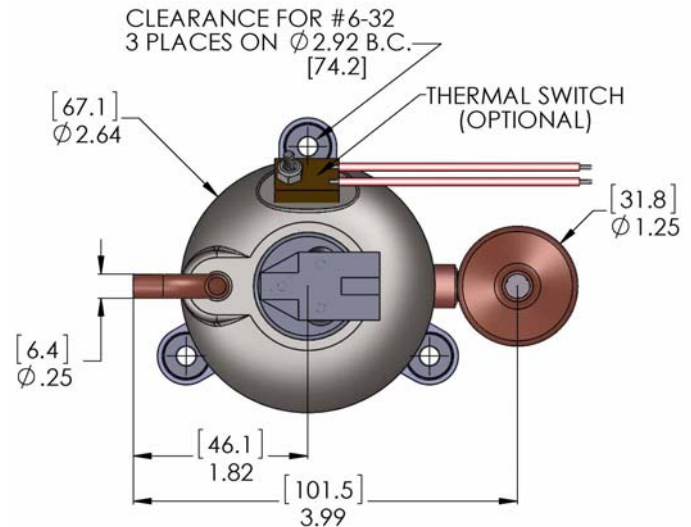


Q-Series Low Noise, Miniature, Rotary BLDC Refrigeration Compressors

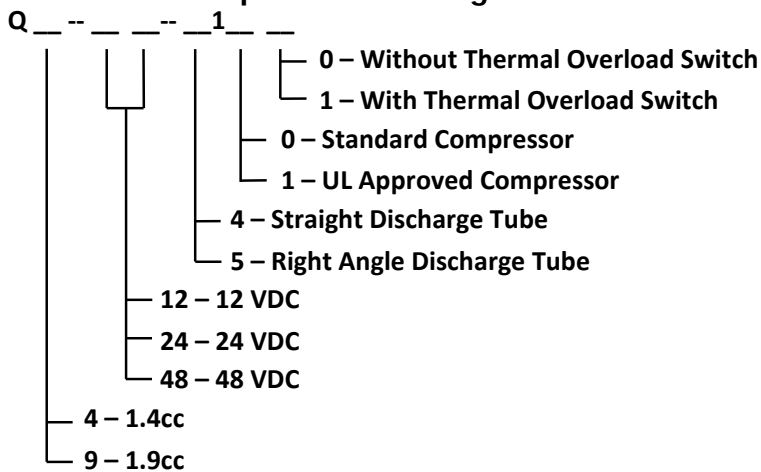


Compressor Specifications

Refrigerant	R134a / R404a / R410a / Others to be tested	
Oil Type	Emkarate POE RL 68H	
Oil Quantity	23cc Factory Charged	
Motor / Drive	BLDC / Sensorless	
Speed Range	2100 – 6500 RPM	
Evaporator Temp. Range	-22~75°F (-30~24°C)	
Max Condensing Temp.	160°F (71°C)	
Max Discharge Temp.	265°F (130°C)	
Max Ambient Temp.	130°F (54°C)	
Max Dome Temp.	240°F (115°C)	
Max Operating Pressure	350 psi (2.4 MPa)	
Suction Port Size	0.25" ID Cup	
Discharge Port Size	0.25" OD Tube	
Analog Voltage Speed Command (Linear)	0 - .6 VDC = OFF .80 VDC: 2,300 RPM 4.5 VDC: 6,500 RPM	
Cooling Capacity-ASHRAE T	R-134a	R-404a
	1.4cc	360 W
	1.9cc	455 W
Noise Level @ 1 meter	~ 40 dBA	
Weight	1.4cc	~ 900g
	1.9cc	~ 925g



Compressor Ordering Guide



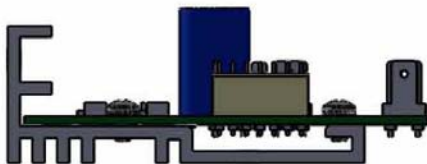
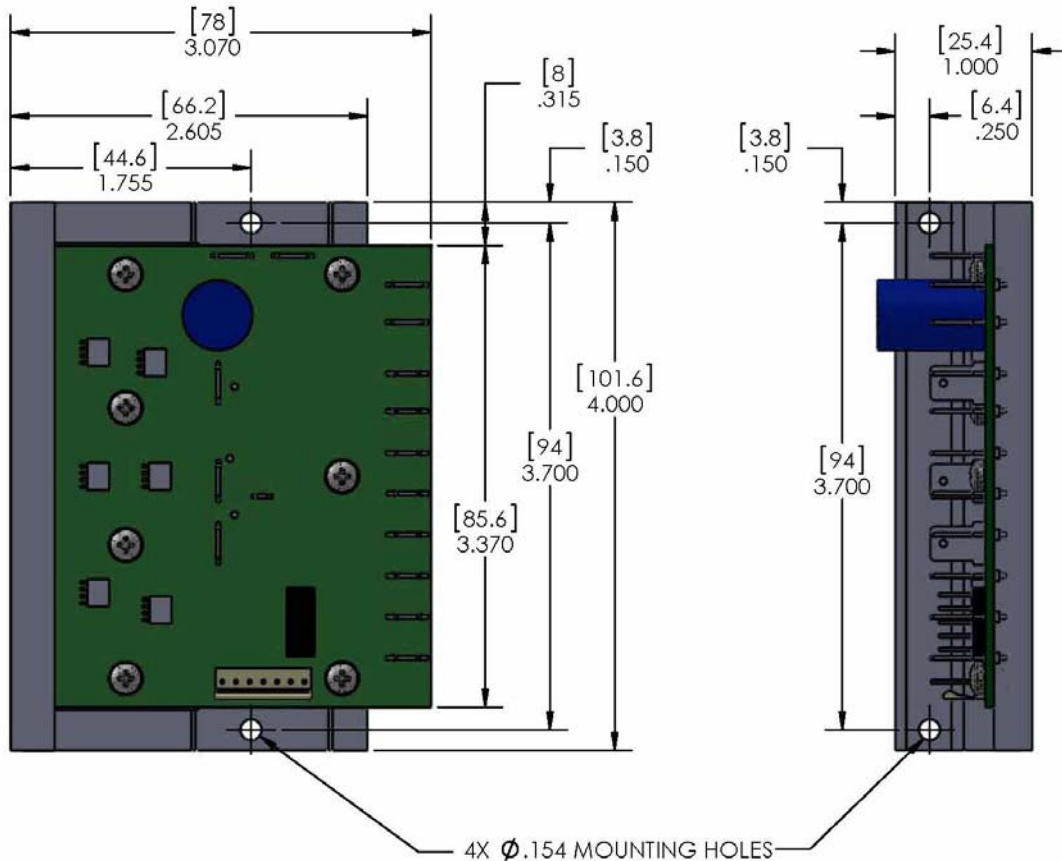
Sample Order # Q4 - 24 - 5111

Description – 1.4cc compressor
24 Volt
Right angle discharge
UL approved
With Thermal Overload Switch

Compressor Application Notes:

1. Compressor is supplied with 23cc Emkarate RL68 POE 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.

ASPEN High Capacity Compressor Drive Board



Maximum Drive Board Current	
Drive Type	Max Current (A)
12V	10A or 15A - User selectable
24V	10A or 15A - User selectable
48V	7A or 8A - User selectable

Compressor Drive 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 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. See table on the left for user selectable current limits for the drives.