

V16H034A-AC-H-SS



All-Metal, Hermetic, Stainless Steel, Scroll Vacuum Pump

100% Oil-Free

Non-contacting scroll configuration that requires no lubrication

All-Metallic Wetted Materials

No tip seals and only stainless steel or nickel wetted surfaces for compatibility with virtually any working fluid

Hermetically Sealed Design

Sealed design and static sealing surfaces for positive containment and contamination-free operation

Stainless Steel Construction

Stainless steel fixed and orbiting scroll for corrosion resistance

High-Vacuum Performance

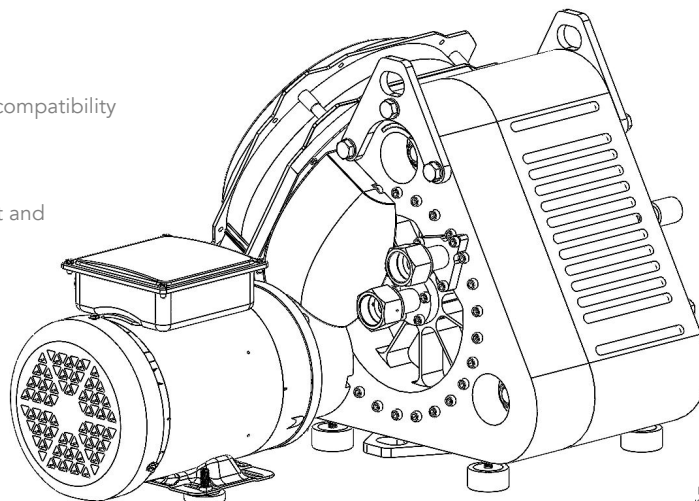
Deep vacuum capability

Reliable, Durable Solution

No wearing surfaces for long product life

Retrofit Legacy Tritium Pumps

Drop-in replacement for aging Tritium vacuum pumps



	SI	IMPERIAL
MAX. VACUUM	< 0.026 mbar _a	< 20 mTorr
VOLUME RATIO	5.25	
MAX. FLOW	250 lpm _v	8.8 cfm _v
DISPLACEMENT	162 cm ³ / Rev.	9.9 in ³ / Rev.
MAX. SPEED	1,750 RPM	
RATED POWER	560 W _e	0.75 hp _e
RATED CURRENT	2.4 A	
MOTOR	230 V / 460 V TEFC Three-Phase AC	
COOLING	230 V / 460 V TEFC Single-Phase AC	
NOMINAL SOUND LEVEL	70 dB(A)	
NET WEIGHT	91 kg	201 lb
PORT CONFIGURATION	Customer-Specified	
NOMINAL LEAK RATE (He)	1 x 10 ⁻⁸ mbar·l/s	0.75 x 10 ⁻⁸ Torr·l/s
PART NUMBER	V16H034A-B02	

MEDIA COMPATIBILITY

Standard product configuration is compatible with Tritium (T), Deuterium (D), Uranium Hexafluoride (UF₆), and virtually any working fluid, including radioactive, toxic, or corrosive gases.

Contact info@airsquared.com with specific questions regarding media compatibility.

AVAILABLE ACCESSORIES

Variable Frequency Drive

OPTIONAL CONFIGURATIONS

Custom Motor or Cooling Fan
 Custom Inlet and Outlet Port Configuration
 Aluminum Construction (Lighter Weight, Longer Life, and Lower Cost)

Qualified customers should consult Air Squared for custom configurations and application-specific requirements.

Contact info@airsquared.com.

The information presented in this material is based on technical data and test results of nominal units. It is believed to be accurate and reliable. Air Squared does not warrant, guarantee, or assume liability in connection with this information. Picture, Performance, Dimensions, and Electrical information for reference use only - visit airsquared.com for current specifications. Application conditions may adversely affect performance and product life. It is the responsibility of the user to determine the suitability of the product for intended use.

Performance (WITH BACKING PUMP)

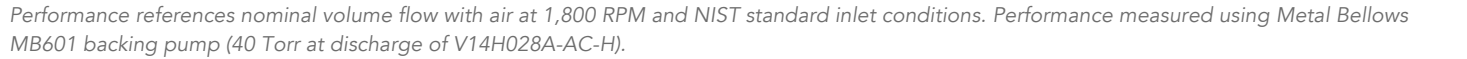


Figure 1: Dimensions of the 1000W unit. The figure contains three technical drawings: a front view on the left, a side view in the middle, and a top view on the right. The front view shows a triangular-shaped unit with a circular fan grille at the bottom. Dimensions include a total width of 458.0mm [18.0in], a total height of 421mm [16.6in], and various internal clearances and mounting hole positions. The side view shows the unit's profile with a fan and motor assembly. Dimensions include a total depth of 599.5mm [23.6in] and a mounting flange thickness of 34.5mm [1.4in]. The top view shows the unit from above, highlighting the fan grille and mounting points. Dimensions include a width of 218.0mm [8.6in] and a height of 214.9mm [8.5in].

Inlet and outlet port configurations shown for reference only. Inlet and outlet flanges can accommodate customer-specific port configurations.