

# V16H034A-AC-H-SS

## All-Metal, Hermetic, 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

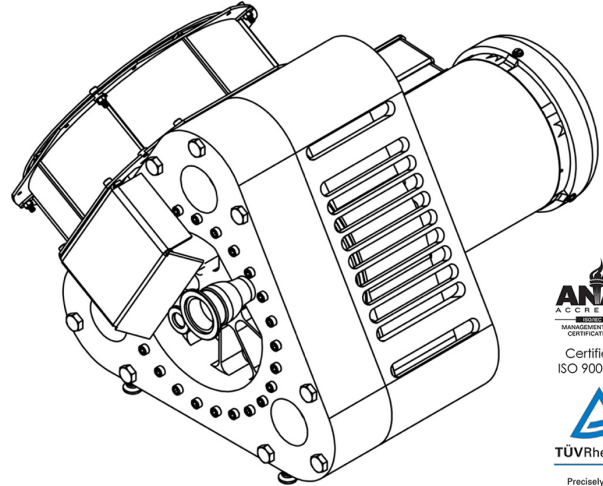
Stainless steel fixed and orbiting scroll for corrosion resistance

### Reliable, Durable Solution

No wearing surfaces for long product life

### High-Vacuum Performance

Deep vacuum capability without the need for a backing pump



	SI	IMPERIAL
MAX. VACUUM	< 0.013 mbara	< 10 mTorr
VOLUME RATIO	5.25	
MAX. FLOW	250 lpmv	9 cfmv
DISPLACEMENT	162 cm <sup>3</sup> / Rev.	9.9 in <sup>3</sup> / Rev.
MAX. SPEED	1,750 RPM	
RATED POWER	0.56 kWe	0.75 hpe
RATED CURRENT	2.28 A	
MOTOR	230 V / 460 V TEFC Three-Phase AC	
COOLING	230 V / 460 V Single-Phase AC	
NOMINAL SOUND LEVEL	70 dB(A)	
NET WEIGHT	83 kg	183 lb
PORT CONFIGURATION	Inlet: NW-40 Outlet: NW-16	
PART NUMBER	V16H034A-A02	

### MEDIA COMPATIBILITY

Standard product configuration is compatible with virtually any working fluid, including radioactive, toxic, or corrosive gases.

Contact [info@airsquared.com](mailto:info@airsquared.com) with specific questions regarding media compatibility.

### OPTIONAL CONFIGURATIONS

Alternate Motor or Cooling Fan

### AVAILABLE ACCESSORIES

Variable Frequency Drive

### CUSTOM REQUIREMENTS

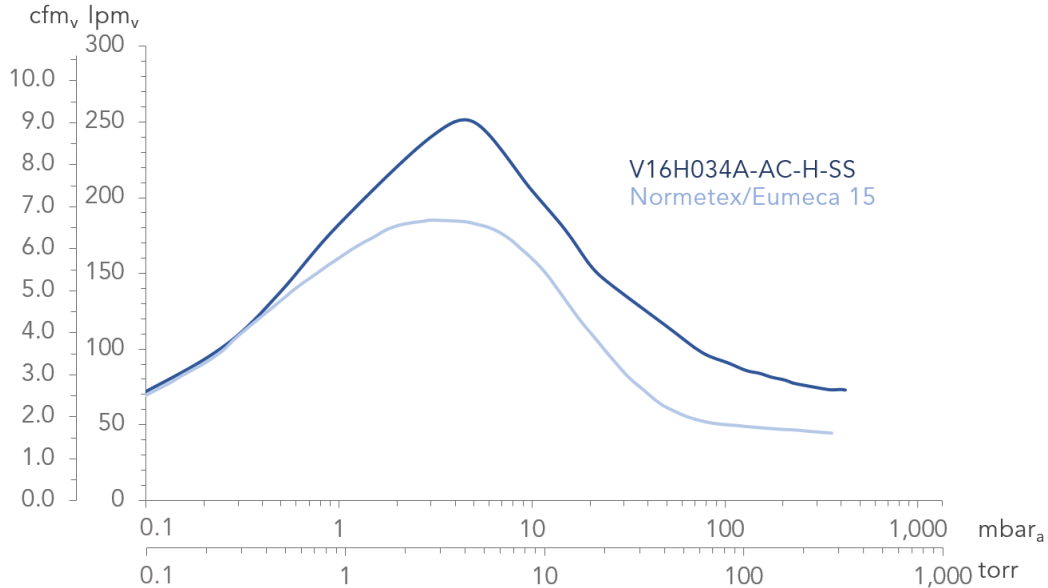
Qualified OEMs should consult Air Squared for custom configurations and application specific requirements.

Contact [info@airsquared.com](mailto: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](http://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.

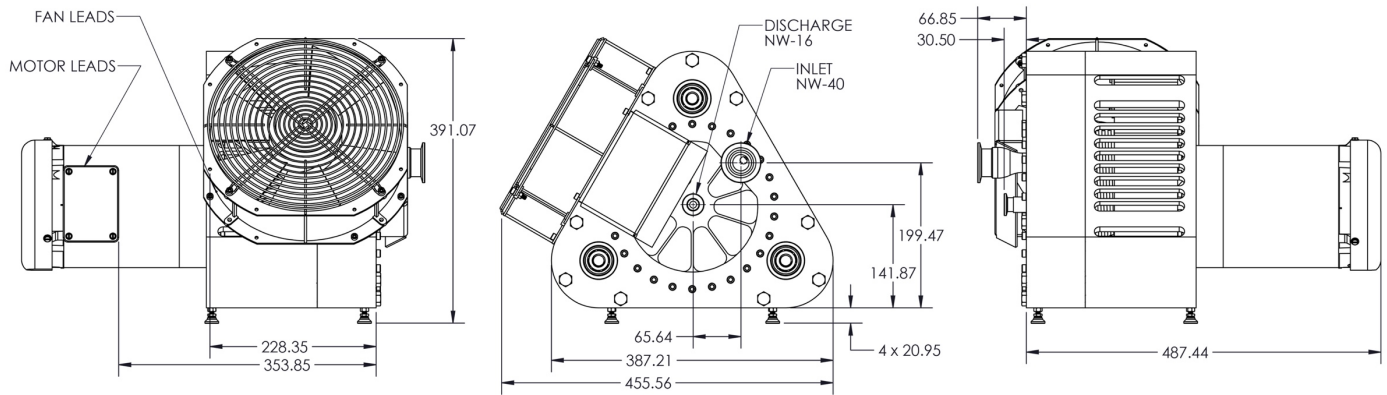
# V16H034A-AC-H-SS

## Performance (With Backing Pump)



Performance reflects V16H034A-AC-H-SS nominal volume air flow, at 1,800 RPM and NIST standard inlet conditions, compared to Eumeca (Normetex) 15 m<sup>3</sup>/hr. scroll vacuum pump. Performance measured using Metal Bellows MB601 5 scfm / 141.58 lpm backing pump.

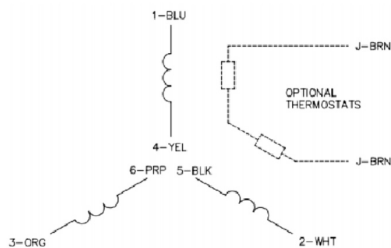
## Dimensions



Dimensions in millimeters unless otherwise stated.

## Electrical

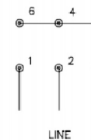
### MOTOR WIRING DIAGRAM



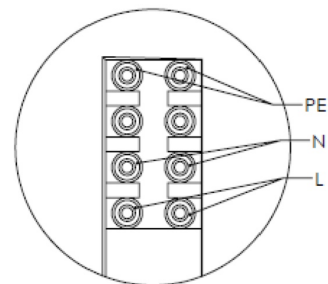
### LOW VOLTAGE (1Ø)



### HIGH VOLTAGE (1Y)



### FAN WIRING DIAGRAM



- NOTES:
1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
  2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
  3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
  4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

Three-Phase AC motors can operate at variable speed. An electronic controller module is required for operation.