Air squared

ALL METAL SERIES

Oil-free Vacuum Pumps Compatible with Virtually any Working Fluid,

V14H028A-AC-H

All-Metal Series™ Scroll Vacuum Pump

DESIGNED, MACHINED AND ASSEMBLED IN THE USA

ANAB ACCREDITED

Certified to ISO 9001:2015 ISO 14001:2015

TÜVRheinland

100% Oil-Free

Non-contacting scroll configuration that requires no lubrication

All-Metallic Wetted Materials

No tip seals and only metallic wetted surfaces for compatibility with a wide range of working fluids

Hermetically Sealed Design

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

Medium-Vacuum Performance

Continuous vacuum process with no re-expansion or throttling losses

Retrofit Legacy Tritium Pumps

Drop-in replacement for aging Tritium vacuum pumps

	SI	IMPERIAL
MAX. VACUUM	< 0.026 $mbar_a$	< 20 Torr
VOLUME RATIO	5.25	
MAX. FLOW	250 lpm_V	8.8 cfm_V
DISPLACEMENT	96 cm^3/ Rev.	5.6 in^3/ Rev.
MAX. SPEED	3,450 RPM	
RATED POWER	560 We	0.75 hpe
RATED CURRENT	2.4 A	
MOTOR	230 V / 460 V TEFC Three-Phase AC	
COOLING	230 V / 460 V Single-Phase AC Attached Fan	
AMBIENT TEMP. RANGE	-20 °C – 40 °C	0 °F – 104 °F
NOMINAL SOUND LEVEL	70 dB(A)	
NET WEIGHT	40 kg	88 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	V14H028A-A01	

MEDIA COMPATIBILITY

Standard product configuration is compatible with Tritium (T), Deuterium (D), Uranium Hexafluoride (UF_6), 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

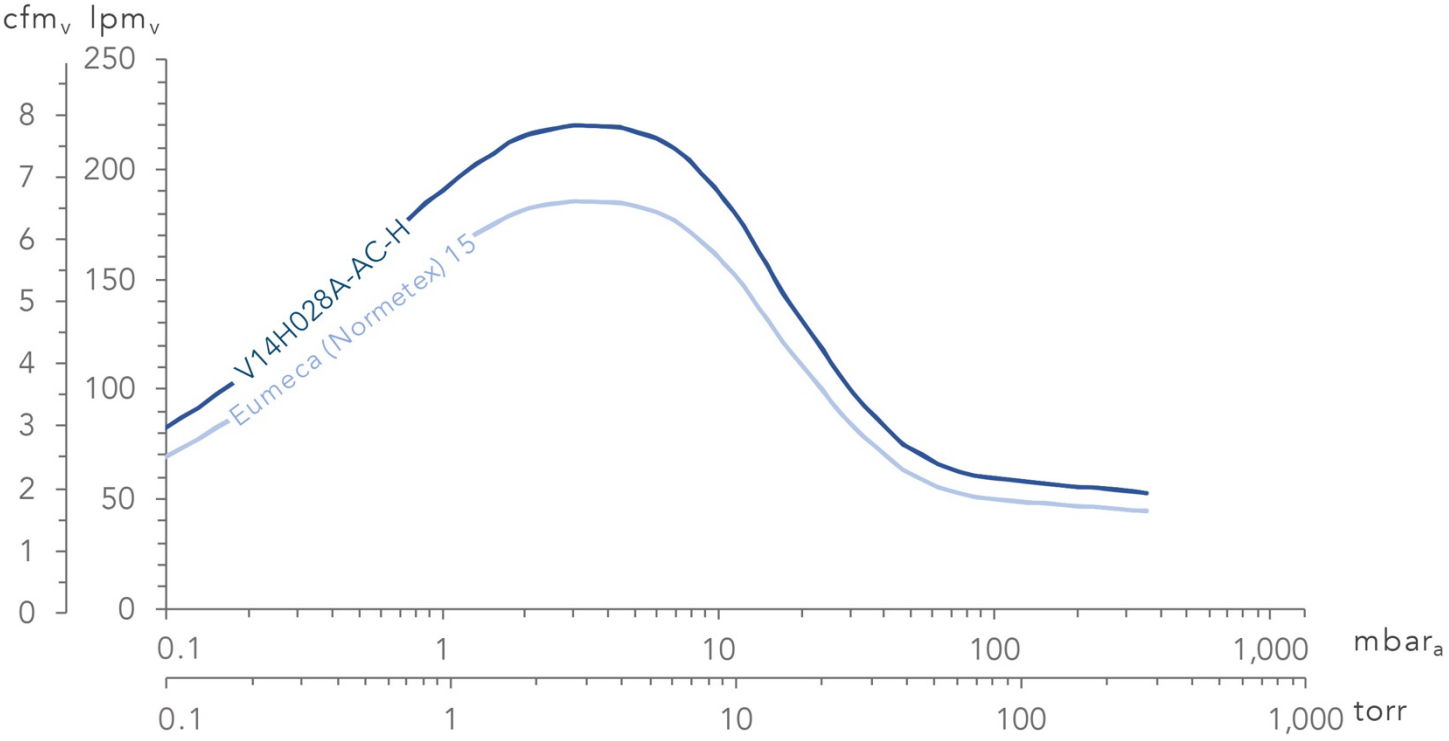
Stainless Steel Construction

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

Contact info@airsquared.com.

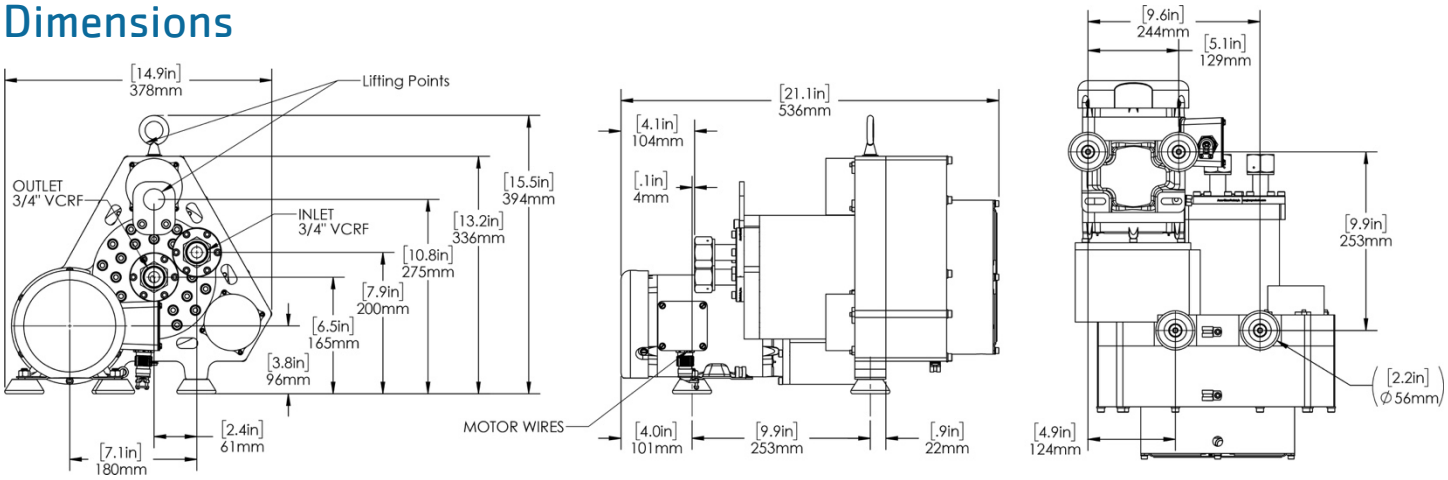
The information presented in this material is based on technical data and test results of nominal units. It is believed to be accurate and reliable. Air Squared does not warrant, guarantee, or assume liability in connection with this information. Picture, Performance, Dimensions, and Electrical information 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 MB601 BACKING PUMP)



Performance references nominal volume flow with air at 3,450 RPM and NIST standard inlet conditions. Performance measured using Metal Bellows MB601 backing pump (40 Torr at discharge of V14H028A-AC-H).

Dimensions



Dimensions in millimeters unless otherwise stated.

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

Learn More About Oil-Free Scroll Technology at
http://airsquared.com

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