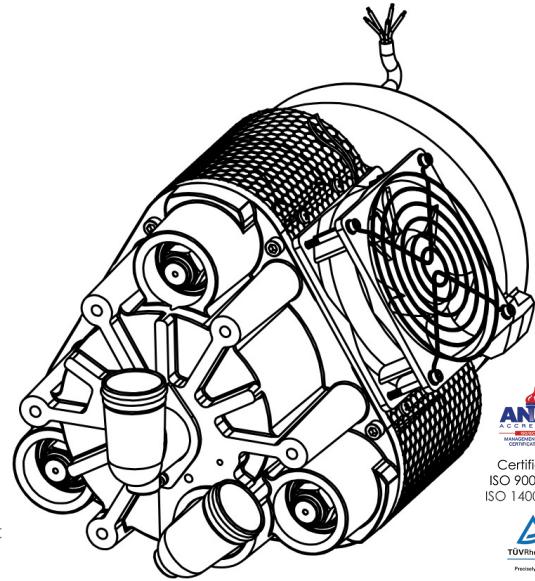# P27H069A-BLDC

Scroll Compressor ORBITAL SERIES

100% Oil-Free
Maintain the purity of your system

Efficient Performance
Continuous compression process with no re-expansion or throttling losses

Quiet, Smooth Operation
Dynamically balanced, valve-less, and near pulsation-free

Reliable, Durable Solution
Long product life and simple field maintenance

Variable Speed
Ideal performance over a range of duty cycles – 100% continuous to intermittent

ANAB ACCREDITED
MANAGEMENT SYSTEMS
CERTIFICATION BODY

Certified to
ISO 9001:2015
ISO 14001:2015

TÜVRheinland
Precisely Right.

	SI	IMPERIAL
MAX. PRESSURE	1.2 barg	17 psig
VOLUME RATIO	1.39	
MAX. FLOW	950 lpm$_V$	33.5 cfm$_V$
DISPLACEMENT	463 cm^3/ Rev.	28.25 in^3/ Rev.
MAX. SPEED	2,000 RPM	
RATED POWER	2.4 kW$_e$	3.2 hp$_e$
RATED CURRENT	50 A	
MOTOR	48 V Brushless DC	
COOLING	48 VDC Attached Fan	
AMBIENT TEMP. RANGE	-20 °C – 40 °C	0 °F – 104 °F
NOMINAL SOUND LEVEL	55 dB(A)	
NET WEIGHT	27 kg	59.5 lb
PORT CONFIGURATION	Elbow Fittings	
MEDIA	Air	
PART NUMBER	P27H069A-B01	

AVAILABLE ACCESSORIES

Brushless DC Controller

OEM CONFIGURATIONS

Custom Electrical Connector
Custom Motor and Fan Voltage

Qualified OEMs should consult Air Squared for custom configurations and application-specific requirements.
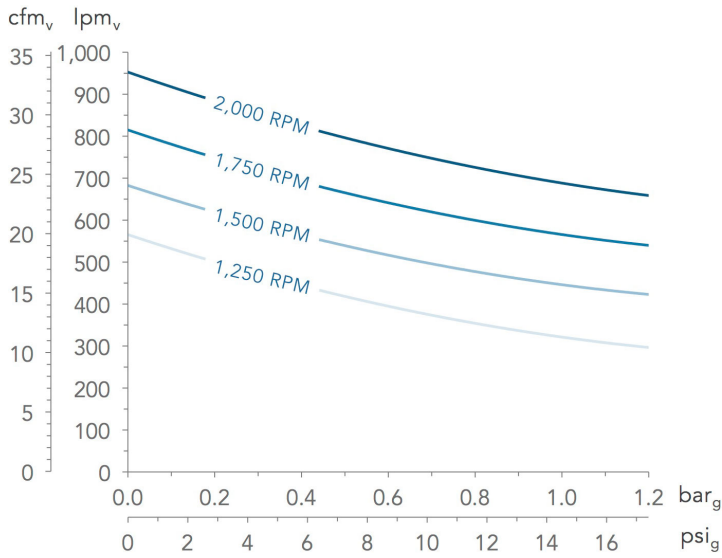
Contact info@airsquared.com.

Performance

FLOW CHARACTERISTICS

2,000 RPM
1,750 RPM
1,500 RPM
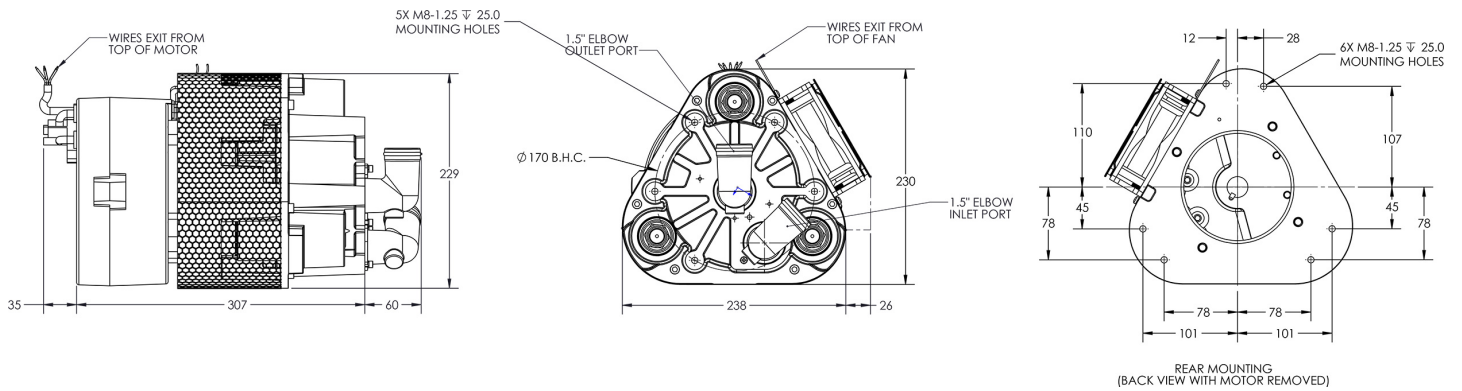1,250 RPM

POWER CHARACTERISTICS

2,000 RPM
1,750 RPM
1,500 RPM
1,250 RPM
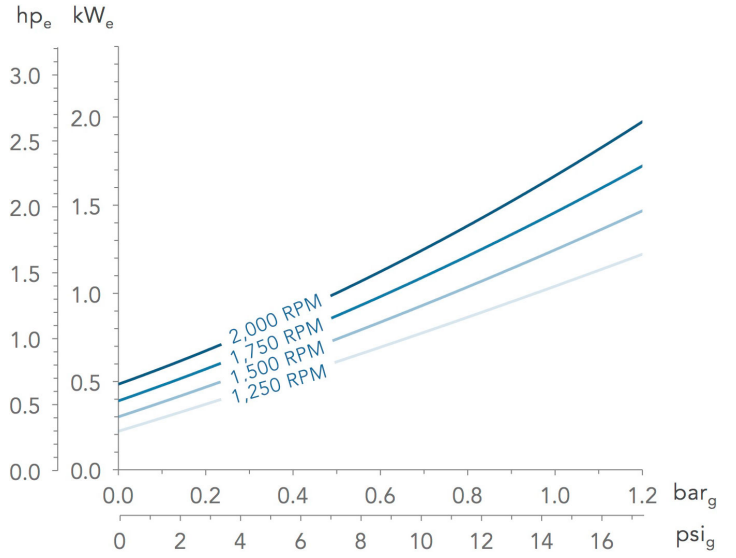
Flow Characteristics reflect nominal volume flow with air at NIST standard inlet conditions. Power Characteristics reflect nominal electric power consumption in Broomfield, CO USA with standard motor and controller losses.

Dimensions

WIRES EXIT FROM TOP OF MOTOR

5X M8-1.25 ▽ 25.0 MOUNTING HOLES

1.5" ELBOW OUTLET PORT

WIRES EXIT FROM TOP OF FAN

∅ 170 B.H.C.

1.5" ELBOW INLET PORT

6X M8-1.25 ▽ 25.0 MOUNTING HOLES

REAR MOUNTING
(BACK VIEW WITH MOTOR REMOVED)

Dimensions in millimeters unless otherwise stated