

KINNEY®

Rotary Vane Vacuum Pumps

Kinney® KVA Vacuum Pumps



KVA

The KVA's simple design ensures the reliability and the durability that is required in the vacuum industry. Customers choose Kinney for competitive pricing, local distribution and service, and superior customer service.

Customer Benefits

Oil-sealed rotary vane vacuum pumps are simple, quiet, and efficient, offering a very attractive \$/CFM ratio when compared to other technologies. KVA pumps can last for years with proper maintenance, but are also affordable enough that they can be periodically replaced when used in toxic conditions.

Kinney's KVAs are used in a variety of applications, such as holding and lifting, printing, central vacuum systems, thermoforming, bottle evacuation, milking systems, food packaging, vacuum extrusion, and more.



Features

- Short lead times; all standard pump and motor combinations are stocked in Springfield, Missouri
- Non-metallic vanes
- Oil level sight glass
- Vibration isolators
- Anti-suck back valve
- Integral exhaust filters
- TEFC high efficiency motor / Class I, Div II, Groups A, B, C, D
- Models KVA 25-630 include spin-on oil filter and gas ballast valve

Improved Performance

The performance of the KVA rotary vane vacuum pump has been optimized to provide even deeper vacuum levels than before. Most models can achieve ultimate pressure levels near 0.1 mbar.

Rugged and Reliable

Kinney has built a global reputation for having some of the most rugged and reliable equipment in the industry. The KVA vacuum pump is no exception and has many years of proven application experience.

Compact and Quiet

The small footprint of the KVA pump allows for maximized tabletop and floor space. A smooth and quiet operation can be expected due to the intentional pump design and vibration isolation.

Easy to Maintain and Operate

The KVA has been engineered to provide convenient service access to both the oil and filters. The direct-coupled and air-cooled design requires very little additional maintenance. Maintenance and repair kits, along with replacement pump modules, filters, and vanes, are available.

Standard Gas Ballast Valve

Kinney realizes that our customers want a pump that can handle water vapor without needing to buy expensive add-on components or modify the product they purchase. Therefore, models KVA 25-630 pumps come with a gas ballast valve as a part of our standard offering.

Accessories

- Various in-line inlet filters
- Exhaust filters and replacement gaskets
- Kinney KV-100 or S500 vacuum oil for standard and severe service
- Oil filters
- Thermal switches
- Vacuum switches
- Gauges, exhaust filters, inlet and relief valves, fittings

| | | | KVA12* | KVA21* | KVA25* | KVA40 | KVA63 | KVA100 | KVA160 | KVA250 | KVA400 | KVA630 |
|--|------------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| NOMINAL DISPLACEMENT | 60 Hz | CFM | 7 | 14 | 21 | 28 | 45 | 71 | 124 | 177 | 300 | 460 |
| | 50 Hz | | 6 | 12 | 18 | 24 | 38 | 60 | 103 | 147 | 247 | 388 |
| | 60 Hz | m3/h | 12 | 24 | 36 | 48 | 78 | 120 | 210 | 300 | 505 | 780 |
| | 50 Hz | | 10 | 20 | 30 | 40 | 65 | 100 | 175 | 250 | 420 | 660 |
| ULTIMATE PRESSURE | Torr | | 1.50 | 1.50 | 0.12 | 0.12 | 0.11 | 0.11 | 0.11 | 0.23 | 0.07 | 0.08 |
| | mbar | | 2.0 | 2.0 | 0.16 | 0.16 | 0.14 | 0.14 | 0.15 | 0.30 | 0.09 | 0.11 |
| TEFC MOTOR* | 3 Phase | Hp | 0.75 | 1.0 | 1.5 | 2 | 3 | 5 | 7.5 | 10 | 15 | 25 |
| ROTATIONAL SPEED | 60 Hz | | 1740 | 3480 | 1740 | 1740 | 1740 | 1740 | 1740 | 1740 | 1160 | 1160 |
| NOISE LEVEL | dba | 60Hz | 59 | 62 | 67 | 67 | 68 | 68 | 77 | 77 | 78 | 79 |
| OIL CAPACITY | Quarts | | 0.5 | 0.5 | 1.5 | 1.5 | 2.6 | 2.9 | 7.4 | 7.4 | 20 | 20 |
| | Liters | | 0.5 | 0.5 | 1.4 | 1.4 | 2.5 | 2.7 | 7 | 7 | 19 | 19 |
| CONNECTIONS | Inlet NPT | | 1/2" | 1/2" | 1 1/4" | 1 1/4" | 1 1/4" | 1 1/4" | 2" | 2" | 3" | 3" |
| | Outlet NPT | | 1 1/4" | 1 1/4" | 1 1/4" | 1 1/4" | 1 1/4" | 1 1/4" | 2" | 2" | 3" | 3" |
| APPROX. WEIGHT with pump & motor, no oil | lbs | | 44 | 44 | 104 | 117 | 146 | 165 | 362 | 406 | 1,111 | 1,550 |
| | kg | | 20 | 20 | 47 | 53 | 66 | 75 | 164 | 184 | 504 | 703 |

*KVA 12-25 also available with single-phase motor. All KVA motors are Protection Category Class I, Division II, Groups A, B, C & D.

Custom Engineered Systems

Kinney has a knowledgeable team of vacuum application experts who can design a complete vane pump vacuum system that is tailored to your needs. These systems can range from tank- or skid-mounted central vacuum systems, to pairing our industry-leading Kinney vacuum boosters to a KVA pump, which more than doubles pump-down speed while providing a deeper ultimate vacuum level.



Custom Engineered Central Vacuum System



Kinney Vacuum Booster



KINNEY®

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