

KVA ROTARY VANE VACUUM PUMP



 **Tuthill**
PUMP YOUR HEART INTO IT

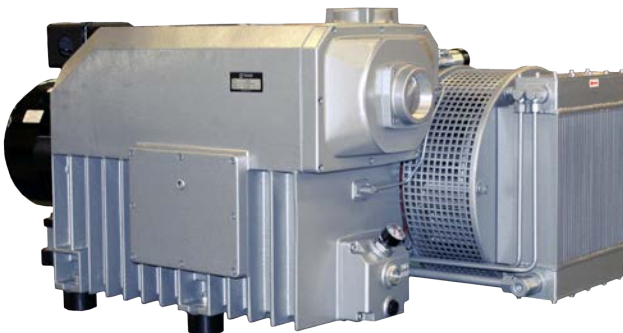
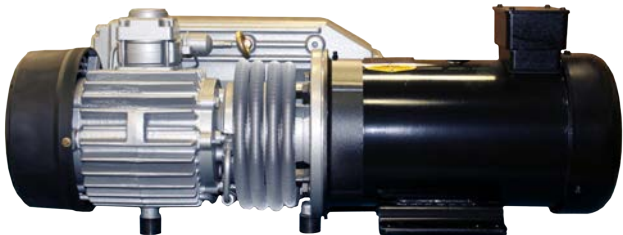
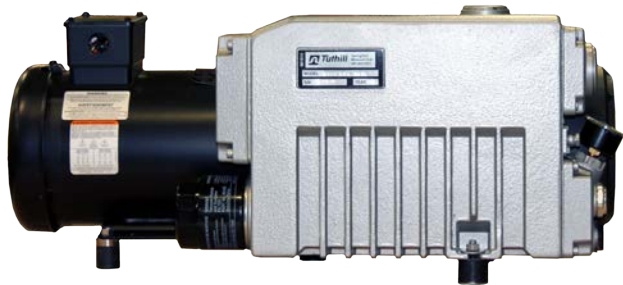
KVA

The KVA's simple design ensures the reliability and the durability that is required in the vacuum industry. Customers choose Tuthill 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.

Tuthill'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
- Gas ballast valve
- 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

Tuthill has built a global reputation for having some of the most rugged and reliable equipment in the industry. The KVA rotary vane 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. Its direct-coupled and air-cooled design requires very little additional maintenance. Maintenance and repair kits, along with replacement pump modules, filters, and vanes, are kept in stock in Springfield, Missouri to minimize your downtime.

Standard Gas Ballast Valve

Tuthill 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

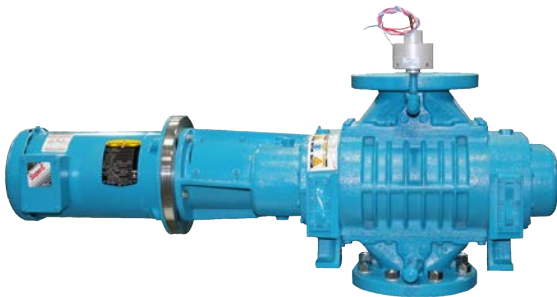
Specifications

			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	m ³ /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

Tuthill 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 M-D Pneumatics™ vacuum boosters to a KVA pump, which more than doubles pump-down speed while providing a deeper ultimate vacuum level.



VBXpert Vacuum & Blower Sizing Tool

Gain access to the most useful tool available for blower sizing and selection! This easy-to-use interface prompts you to plug in technical specifications for your application and quickly calculates the best Tuthill product for you. Find out more at www.tuthillvacuumblower.com.

Service & Repair

The **Tuthill CARE Center** in Springfield, Missouri, USA is here to help with start-up assistance, repair and warranty work, and remanufactured product sales. Call 1-800-825-6937 to be connected to a Tuthill CARE technician. Tuthill has a network of authorized CARE Centers offering local service to customers. All centers are staffed with factory-trained personnel to ensure that your equipment performs to factory specifications. A listing of authorized Tuthill CARE Centers is available at www.tuthillvacuumblower.com.



Tuthill Vacuum & Blower Systems | tuthillvacuumblower.com | 800.825.6937