Rotary vane pumps oil-free

Simplicity of design with only one shaft and direct drive produces robust, long-lasting pumps with low maintenance and running costs. These pumps operate completely oil-free; the individual chambers are separated by long-life vanes. Already featuring integrated intake filters and control valves, these pumps can be fitted with other accessories without a problem. The blast-air cooler (compressors), which is also integrated, guarantees a very low blast air temperature. The compact cover ensures low noise and heat emission. Optional corrosion protection also makes these pumps suitable for extracting moist air.

Series X: Becker Innovation with Top Warranty

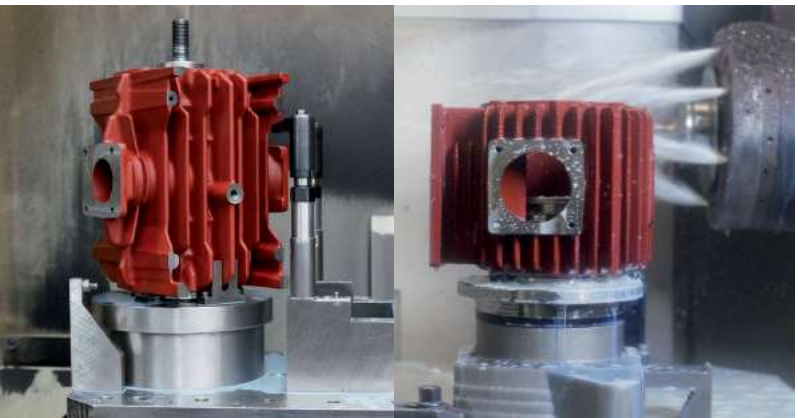
Equipped with specially developed vanes, these oil-free rotary vane pumps distinguish themselves by high abrasion resistance, and with that extremely long service lives. And since no dust develops where there is virtually no wear, the series X pumps are perfectly suited for precision processes under clean room conditions.

This innovation branded by Becker is outstanding not only because of its 100 percent oil-free operation, excellent degree of efficiency and low power consumption. In the area of sensitive vacuum, series X also guarantees precise low-pulsation air conduction.

Becker guarantees for these pumps a vane life-time of 20,000 operating hours or max. 3 years. A guarantee for a top technology with the following advantages:

- Quick, clean, quiet
- Oil-free
- Vibration stable
- Wear resistant
- Energy saving
- Long-life reliable

The enhanced longevity of X series pumps also extends service life intervals, and can cut out the need for frequent service visits with costly pump failures now no longer an issue.



KVT 3.60 – KVT 3.140 • VTLF 2.200 – VTLF 2.500

Rotary vane vacuum pumps
- oil-free and air-cooled
- incl. integrated suction filter, vacuum regulating or relief (VTLF) valve and blow off valve

Drehschieber-Vakuumpumpen
- trockenlaufend und luftgekühlt
- inkl. integriertem Ansaugfilter, Vakuumregulier – oder Vakuumsicherheitsventil (VTLF) und Abblaseventil

Pompes à vide à palettes
- fonctionnant à sec et refroidies par air
- incluant filtre d'aspiration intégré, soupape de réglage ou sécurité vide (VTLF) et soupape d'échappement

Pompe per vuoto a palette
- funzionanti a secco e raffreddate ad aria
- incl. filtro di aspirazione integrato, valvola di regolazione o sicurezza vuoto (VTLF) e valvola di sfiato

Bombas de vacío de paletas
- sin aceite y refrigerado por aire
- incl. filtro de aspiración integrado, válvula de regolazione o seguridad de vacío (VTLF) y válvula de escape

VTLF 2.250

KVT 3.80

		m³/h [1] → refers to intake pressure [2]									
mbar abs. →		*1000*	*900*	*800*	*700*	*600*	*500*	*400*	*300*	*200*	*100*
mbar rel. →		*0*	*-100*	*-200*	*-300*	*-400*	*-500*	*-600*	*-700*	*-800*	*-900*
KVT 3.60	50 Hz	55	55	54	53	52	50	48	45	37	0.1
	60 Hz	66	65	64	63	61	59	55	49	37	0.1
KVT 3.80	50 Hz	67	66	65	63	61	59	55	49	38	0.1
	60 Hz	78.5	77	76	75	73	70	65	58	44	0.1
KVT 3.100	50 Hz	98	97	96	93	90	86	80	71	56	0.1
	60 Hz	112	111	109	107	104	100	93	83	62	0.1
KVT 3.140	50 Hz	129	127	125	123	120	116	108	96	75	0.1
	60 Hz	154	152	150	147	143	138	130	117	90	–
VTLF 2.200	50 Hz	178	174	170	165	158	152	140	115	85	
	60 Hz	218	214	210	204	197	189	178	160	125	
VTLF 2,250	50 Hz	244	242	238	235	230	222	210	197	165	
	60 Hz	286	284	281	276	270	261	248	230	195	
VTLF 2.250 SK	50 Hz	247	242	236	229	220	213	204	188	159	89
	60 Hz	295	292	289	284	276	269	257	240	208	142
VTLF 2,360	50 Hz	351	351	350	347	343	334	324	302	283 @ 250 mbar abs.	
	60 Hz	402	403	401	399	391	382	370	360	352 @ 250 mbar abs.	
VTLF 2,400	50 Hz	390	380	371	361	351	325	307	273	243	
	60 Hz	460	456	451	444	435	423	404	373	310	
VTLF 2.500	50 Hz	495	487	480	472	464	450	424	397	376 @ 250 mbar abs.	
	60 Hz	570	565	559	552	541	526	504	463	446 @ 250 mbar abs.	

	Ⓜ [3] kW (3~)			db(A) [4]		kg [5]	Length x Width x Height [6] mm [5]	mm	mm	
	50 Hz	60 Hz		50 Hz	60 Hz					
KVT 3.60	2.2	2.6	IE3	71	73	≈76–84	≈704–747	353	328	1"
KVT 3.80	2.2	2.6	IE3	72	75	≈76–84	≈704–747	353	328	1"
KVT 3.100	3.0	3.6	IE3	75	77	≈100–108	≈843–851	470	336	1 ½"
KVT 3.140	4.0	4.8	IE3	76	79	≈112–142.5	≈829–966.5	470	336	1 ½"
VTLF 2.200	4.0	4.8	IE3	75	77	≈258–265	≈1174	644	528	2 ½"
VTLF 2.250	5.5	6.6	IE3	77	79	≈253–258	≈1144	644	528	2 ½"
VTLF 2.250 SK	7.5	9.0	IE3	77	79	≈263–268	≈1174–1180	644	558	2 ½"
VTLF 2.360	11.0	13.2	IE3	80.5	82.5	≈253–263	≈1174	644	528	2 ½"
VTLF 2.400	7.5	9.0	IE3	77	79	≈425	≈1477	747	579	4"
VTLF 2.500	11.0	13.2	IE3	79	80	≈411	≈1470–1477	747	579	4"

1)	Reference (atmosphere) / Allowable tolerance: 1000 mbar, 20°C / ±10%	Bezugsdaten (Atmosphäre) / Mögliche Abweichung:1000 mbar, 20°C / ±10%	Référence (atmosphère) / Variation possible: 1000 mbar, 20°C / ±10%	Rifermento (atmosfera) / Variazione possibile: 1000 mbar, 20°C / ±10%	Referencia (atmosférica) / Tolerancia posible: 1000 mbar, 20°C / ±10%
2)	Refers to intake pressure → see page 65 (Characteristic curves for vacuum)	Bezogen auf den Ansaugdruck → siehe Seite 65 (Kennlinien für Vakuum)	Réfère à pression d'aspiration → voir page 65 (Courbes caractéristiques pour le vide)	Riferisi à pressione d'aspirazione → vedi pagina 65 (Curve caratteristiche per vuoto)	Referido a la presión de aspiración → véase página 65 (Curvas características de vacío)
3)	Motor voltages upon request (also refer to pump data sheet)	Motorspannungen auf Anfrage (siehe auch Pumpendatenblatt)	Tensions de moteur sur demande (voir aussi la fiche technique de la pompe)	Tensioni del motore su richiesta (vedere anche la scheda tecnica della pompa)	Tensiones de motor a petición (véase también la ficha de datos de la bomba)
4)	DIN EN ISO 3744 (KpA = 3 dB(A)) interval of 1m, at medium load, both connection sides piped	DIN EN ISO 3744 (KpA = 3 dB(A)) Abstand von 1m, bei mittlerer Belastung, beide Seiten abgeleitet	DIN EN ISO 3744 (KpA = 3 dB(A)) intervalle de 1m, à régime moyen, avec dérivation des deux côtés	DIN EN ISO 3744 (KpA = 3 dB(A)) intervallo di 1m, a medio regime, entrambi i lati derivati	DIN EN ISO 3744 (KpA = 3 dB(A)) intervalo de 1m, en media carga, derivados de ambos lados
5)	Motor-dependent	Motorenabhängig	Dépend du moteur	A seconda del tipo di motore	Dependiente del motor
6)	Length x Width x Height	Länge x Breite x Höhe	Longueur x Largeur x Hauteur	Lunghezza x Larghezza x Altezza	Largo x Ancho x Alto

KVX 3.60 – 3.140 • VXLF 2.200 – 2.500

X-Series for x-tra operating hours
- Rotary vane vacuum pumps, oil-free and air-cooled
- incl. integrated suction filter, regulating or relief (VXLF) valve and blow off valve

X-Serie für x-tra Betriebsstunden
- Drehschieber-Vakuumpumpen, trockenlaufend und luftgekühlt
- inkl. integriertem Ansaugfilter, Vakuumregulier – oder Vakuumsicherheitsventil (VXLF) und Abblaseventil

X-Série pour les heures de travail x-tra
- Pompes à vide à palettes, functionnant à sec et refroidies par air
- incluant filtre d'aspiration intégré, soupape de réglage ou sécurité vide (VXLF) et soupape d'échappement

X-Serie per x-tra ore operative
- Pompe per vuoto a palette, funzionanti a secco e raffreddate ad aria
- incl. filtro aspirazione integrato, valvola di regolazione o sicurezza vuoto (VXLF) e valvola di sfiato

X-Series para las horas de funcionamiento x-tra
- Bombas de vacío de paletas, sin aceite y refrigerado por aire
- incl. filtro de aspiración integrado, válvula de regolazione o seguridad de vacío (VXLF) y válvula de escape

KVX 3.80

		m³/h [1] → refers to intake pressure [2]									
mbar abs. →		*1000*	*900*	*800*	*700*	*600*	*500*	*400*	*300*	*200*	*100*
mbar rel. →		*0*	*-100*	*-200*	*-300*	*-400*	*-500*	*-600*	*-700*	*-800*	*-900*
KVX 3.60	50 Hz	55	55	54	53	52	50	48	45	37	0.1
	60 Hz	66	65	64	63	61	59	55	49	37	0.1
KVX 3.80	50 Hz	67	66	65	63	61	59	55	49	38	0.1
	60 Hz	78.5	77	76	75	73	70	65	58	44	0.1
KVX 3.100	50 Hz	98	97	96	93	90	86	80	71	56	0.1
	60 Hz	112	111	109	107	104	100	93	83	62	0.1
KVX 3.140	50 Hz	129	127	125	123	120	116	108	96	75	0.1
	60 Hz	154	152	150	147	143	138	130	117	90	–
VXLF 2.200	50 Hz	178	174	170	165	158	152	140	115	85	
	60 Hz	218	214	210	204	197	189	178	160	125	
VXLF 2.250	50 Hz	244	242	238	235	230	222	210	197	165	
	60 Hz	286	284	281	276	270	261	248	230	195	
VXLF 2.250 SK	50 Hz	247	242	236	229	220	213	204	188	159	89
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VXLF 2.400	50 Hz	390	380	371	361	351	325	307	273	243	
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KVX 3.100	3.0	3.6	IE3	75	77	≈100–108	≈843–851	470	336	1 ½"
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5)	Motor-dependent	Motorenabhängig	Dépend du moteur	A seconda del tipo di motore	Dependiente del motor
6)	Length x Width x Height	Länge x Breite x Höhe	Longueur x Largeur x Hauteur	Lunghezza x Larghezza x Altezza	Largo x Ancho x Alto