

U 3.6 • U 4.20 – U 4.165

Rotary vane vacuum pumps

- oil-lubricated and air-cooled
- incl. integrated non return valve, PT100

Drehschieber-Vakuumpumpen

- ölgeschmiert und luftgekühlt
- inkl. integriertem Rückschlagventil, PT100

Pompes à vide à palettes

- lubrifiées et refroidies par air
- incluant soupape anti-retour intégré, PT100

Pompe per vuoto a palette

- lubrificate ad olio e raffreddate ad aria
- incl. valvola non ritorno integrato, PT100

Bombas de vacío de paletas

- con aceite y refrigerado por aire
- incl. válvula antirretorno, PT100



		m ³ /h ¹⁾													
		refers to atmospheric pressure and (intake pressure)	bezogen auf den Atmosphärendruck und (Ansaugdruck)				réfère à pression atmosphérique et (pression d'aspiration)			riferisi a pressione atmosferica e (pressione d'aspirazione)		referido a la presión atmosférica y (presión de aspiración)			
mbar	abs. →	1000	900	800	700	600	500	400	300	200	100	m ³ /h	@ max.		
	rel. →	0	-100	-200	-300	-400	-500	-600	-700	-800	-900		mbar abs.		
		Hz													
U 3.6	50	6.4 (6.4)	6 (6.4)	5.2 (6.4)	4.5 (6.4)	3.8 (6.3)	3.1 (6.2)	2.5 (6.2)	1.9 (6.2)	1.3 (6.1)	0.6 (6)	0.1 (0.1)	3		
	60	7.4 (7.4)	6.7 (7.4)	5.9 (7.4)	5.2 (7.4)	4.5 (7.3)	3.7 (7.3)	3 (7.3)	2.3 (7.3)	1.5 (7.1)	0.8 (7)	0.1 (0.1)	3		
U 4.20	50	18 (18)	16 (17.8)	14.1 (17.6)	12.2 (17.4)	10.3 (17.2)	8.5 (16.9)	6.6 (16.4)	4.7 (15.8)	3 (14.9)	1.3 (13.5)	0.1 (0.1)	<1		
	60	21 (21)	18.8 (20.9)	16.5 (20.6)	14.2 (20.3)	12 (20)	9.8 (19.6)	7.6 (19)	5.5 (18.3)	3.5 (17.5)	1.6 (16)	0.1 (0.1)	<1.5		
U 4.40	50	41 (41)	36.2 (40.2)	31.5 (39.4)	27 (38.6)	22.6 (37.6)	18.4 (36.7)	14.3 (35.7)	10.4 (34.7)	6.7 (33.6)	3.2 (32)	0.1 (0.1)	0.5		
	60	48 (48)	43.2 (48)	38.1 (47.6)	32.8 (46.9)	27.6 (46)	22.4 (44.8)	17.4 (43.5)	12.6 (42)	8.1 (40.5)	3.8 (38)	0.1 (0.1)	0.5		
U 4.70 SA/K U 4.70 F/K	50	63 (63)	56 (62)	50 (62)	44 (61)	38 (61)	31 (60)	25 (60)	19 (59)	13 (57)	6 (57)	0.1 (0.1)	3 / 0.5 ⁵⁾		
	60	74 (74)	67 (74)	59 (74)	52 (74)	44 (73)	37 (73)	30 (73)	22 (73)	15 (73)	7 (70)	0.1 (0.1)	3 / 0.5 ⁵⁾		
U 4.100 SA/K U 4.100 F/K	50	100 (100)	88 (97)	76 (95)	65 (92)	54 (90)	44 (89)	35 (87)	25 (85)	16 (80)	8 (80)	0.1 (0.1)	3 / 0.5 ⁵⁾		
	60	117 (117)	103 (114)	89 (111)	76 (108)	63 (105)	52 (104)	41 (102)	30 (101)	20 (100)	10 (100)	0.1 (0.1)	3 / 0.5 ⁵⁾		
U 4.165 SA/K U 4.165 F/K	50	162 (162)	145 (162)	129 (162)	113 (162)	97 (162)	81 (162)	64 (162)	48 (162)	32 (162)	16 (162)	0.1 (0.1)	3 / 0.5 ⁵⁾		
	60	190 (190)	171 (190)	152 (190)	133 (190)	114 (190)	95 (190)	76 (190)	57 (190)	38 (190)	19 (190)	0.1 (0.1)	3 / 0.5 ⁵⁾		

	M ²⁾								Length Länge Longueur Lunghezza Largo	Width Breite Largeur Larghezza Ancho	Height Höhe Hauteur Altezza Alto	Connection Anschluss Raccordo Conexión		
	kW (3~)		kW (1~)		dB(A) ³⁾		kg	mm					mm	mm
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz								
U 3.6	0.25	0.3	0.3	0.36	48	49	14	348	187	173.5	¾"			
U 4.20	0.55	0.66	0.6	0.72	63	67	20	334	250 (3~) 308 (1~)	224	½"			
U 4.40	1.5	1.8	IE2	1.5	1.8	69	71	37 - 39 ⁴⁾	462 - 472 ⁴⁾	269 (3~) 331 (1~)	268	1"		
U 4.70	2.4	3.0	IE2	-	-	67	68.5	60 - 63 ⁴⁾	715 - 720 ⁴⁾	374	300	1 ¼"		
U 4.100	2.4	3.0	IE2	-	-	67.5	69	63 - 66 ⁴⁾	770 - 775 ⁴⁾	374	300	1 ¼"		
U 4.165	4.0	4.8	IE2	-	-	71	74	120.5 - 122 ⁴⁾	863.5 - 856 ⁴⁾	531	385	2"		

- Reference (atmosphere) / Allowable tolerance: 1000 mbar, 20°C / ±5 %
Bezugsdaten (Atmosphäre) / Mögliche Abweichung: 1000 mbar, 20°C / ±5 %
- Motor voltages upon request (also refer to pump data sheet)
Motorspannungen auf Anfrage (siehe auch Pumpendatenblatt)
- 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
- Motor-dependent
Motorenabhängig
- U 4. ... SA/K = 3 mbar abs.
U 4. ... F/K = 0.5 mbar abs.

U 4.190 – U 4.630

Rotary vane vacuum pumps

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Pompes à vide à palettes

- lubrifiées et refroidies par air
- incluant soupape anti-retour intégré, PT100

Pompe per vuoto a palette

- lubrificate ad olio e raffreddate ad aria
- incl. valvola non ritorno integrato, PT100

Bombas de vacío de paletas

- con aceite y refrigerado por aire
- incl. válvula antirretorno, PT100



U 4.190 - U 4.300

		m ³ /h ¹⁾												
		refers to atmospheric pressure and (intake pressure)	bezogen auf den Atmosphären- druck und (Ansaugdruck)				réfère à pression atmosphérique et (pression d'aspiration)		riferisi à pressione atmosferico e (pressione d'aspirazione)		referido a la presión atmosférica y (presión de aspiración)			
mbar	abs. → rel. →	1000	900	800	700	600	500	400	300	200	100	m ³ /h	@ max.	
		0	-100	-200	-300	-400	-500	-600	-700	-800	-900		mbar abs.	
	Hz													
U 4.190 SA/K	50	190 (190)	171 (190)	152 (190)	133 (190)	114 (190)	95 (190)	76 (190)	57 (190)	38 (190)	19 (190)	0.1 (0.1)	3 / 0.5 ⁵⁾	
U 4.190 F/K	60	223 (223)	200 (222)	178 (222)	156 (222)	133 (222)	111 (222)	89 (222)	66 (222)	44 (222)	22 (222)	0.1 (0.1)	3 / 0.5 ⁵⁾	
U 4.250 SA/K	50	244 (244)	219 (243)	195 (243)	170 (243)	146 (243)	121 (243)	97 (243)	73 (243)	48 (243)	24 (243)	0.1 (0.1)	3 / 0.5 ⁵⁾	
U 4.250 F/K	60	276 (276)	248 (275)	220 (275)	193 (275)	165 (275)	137 (275)	110 (275)	82 (275)	55 (275)	27 (275)	0.1 (0.1)	3 / 0.5 ⁵⁾	
U 4.300	50	300 (300)	269 (299)	239 (299)	209 (299)	179 (299)	149 (299)	119 (299)	89 (299)	59 (299)	29 (299)	0.1 (0.1)	<0.5	
	60	360 (360)	323 (359)	287 (359)	251 (359)	215 (359)	179 (359)	143 (359)	107 (359)	71 (359)	35 (359)	0.1 (0.1)	<0.5	
U 4.400 SA/K	50	435 (435)	391 (434)	347 (434)	304 (434)	260 (434)	217 (434)	173 (434)	130 (434)	86 (434)	43 (433)	0.1 (0.1)	3 / 0.5 ⁵⁾	
U 4.400 F/K	60	508 (508)	457 (507)	406 (507)	355 (507)	304 (507)	253 (507)	203 (507)	152 (507)	101 (507)	50 (506)	0.1 (0.1)	3 / 0.5 ⁵⁾	
U 4.630 SA/K	50	624 (624)	561 (623)	499 (623)	436 (623)	374 (623)	311 (623)	249 (623)	187 (623)	124 (623)	62 (622)	0.1 (0.1)	3 / 0.5 ⁵⁾	
U 4.630 F/K	60	732 (732)	658 (731)	585 (731)	512 (731)	439 (731)	365 (731)	292 (731)	219 (731)	146 (730)	72 (729)	0.1 (0.1)	3 / 0.5 ⁵⁾	

	M ²⁾			db(A) ³⁾		kg ⁴⁾	Length ⁴⁾ Länge ⁴⁾ Longueur ⁴⁾ Lunghezza ⁴⁾ Largo ⁴⁾ mm	Width Breite Largeur Larghezza Ancho mm	Height Höhe Hauteur Altezza Alto mm	Connection Anschluss Raccordo Raccordo Conexion
	kW (3~)									
	50 Hz	60 Hz		50 Hz	60 Hz					
U 4.190	5.5	6.6	IE2	73	76	148 - 159.5	1016 - 1019.5	531	385	2"
U 4.250	7.5	9.0	IE3	73	76	165 - 181	1088 - 1097	531	385	2"
U 4.300	5.5 (7.5) ⁶⁾	6.3 (8.6) ⁶⁾	IE2 (IE3)	74	76	138.5 - 147.5	1067.5	533	418.5	2"
U 4.400	11.0	13.2	IE2	78	81	397 - 400	1255 - 1368	672	506	3"
U 4.630	15.0	18.0	IE3	80	83	545	1538	695	506	3"

- Reference (atmosphere) / Allowable tolerance: 1000 mbar, 20°C / ±5 %
 - Motor voltages upon request (also refer to pump data sheet)
 - DIN EN ISO 3744 (KpA = 3 dB(A)) interval of 1m, at medium load, both connection sides piped
 - Motor-dependent
 - U 4. ... SA/K = 3 mbar abs.
U 4. ... F/K = 0.5 mbar abs.
 - 5.5/6.3 kW → <0.5 - 100 mbar abs.
7.5/8.6 kW → <0.5 - 400 mbar abs.
- Bezugsdaten (Atmosphäre) / Mögliche Abweichung: 1000 mbar, 20°C / ±5 %
- Motorspannungen auf Anfrage (siehe auch Pumpendatenblatt)
- DIN EN ISO 3744 (KpA = 3 dB(A)) Abstand von 1m, bei mittlerer Belastung, beide Seiten abgeleitet
- Motorenabhängig
- U 4. ... SA/K = 3 mbar abs.
U 4. ... F/K = 0.5 mbar abs.
- 5.5/6.3 kW → <0.5 - 100 mbar abs.
7.5/8.6 kW → <0.5 - 400 mbar abs.
- Référence (atmosphère) / Variation possible: 1000 mbar, 20°C / ±5 %
- Tensions de moteur sur demande (voir aussi la fiche technique de la pompe)
- DIN EN ISO 3744 (KpA = 3 dB(A)) intervalle de 1m, à régime moyen, avec dérivation des deux côtés
- Dépend du moteur
- U 4. ... SA/K = 3 mbar abs.
U 4. ... F/K = 0.5 mbar abs.
- 5.5/6.3 kW → <0.5 - 100 mbar abs.
7.5/8.6 kW → <0.5 - 400 mbar abs.
- Riferimento (atmosfera) / Variazione possibile: 1000 mbar, 20°C / ±5 %
- Tensioni del motore su richiesta (vedere anche la scheda tecnica della pompa)
- DIN EN ISO 3744 (KpA = 3 dB(A)) intervallo di 1m, a medio regime, entrambi i lati derivati
- A seconda del tipo di motore
- U 4. ... SA/K = 3 mbar abs.
U 4. ... F/K = 0.5 mbar abs.
- 5.5/6.3 kW → <0.5 - 100 mbar abs.
7.5/8.6 kW → <0.5 - 400 mbar abs.
- Referencia (atmosférica) / Tolerancia posible: 1000 mbar, 20°C / ±5 %
- Tensiones de motor a petición (véase también la ficha de datos de la bomba)
- DIN EN ISO 3744 (KpA = 3 dB(A)) intervalo de 1m, en media carga, derivados de ambos lados
- Dependiente del motor
- U 4. ... SA/K = 3 mbar abs.
U 4. ... F/K = 0.5 mbar abs.
- 5.5/6.3 kW → <0.5 - 100 mbar abs.
7.5/8.6 kW → <0.5 - 400 mbar abs.