

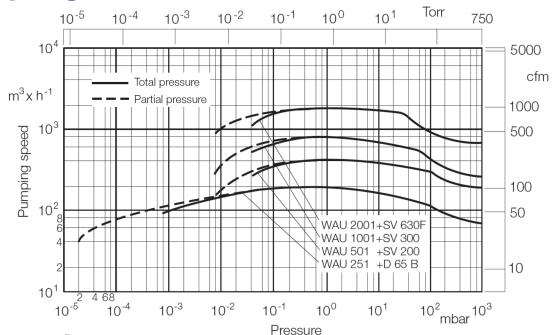
Leybold WA/WAU-251, 501 **Technical Specifications**

	WA/W/ 50 Hz	AU 251 60 Hz	WA/WAU(H) 501 50 Hz 60 Hz		
Nominal pumping speed ¹⁾ m ³ x h ⁻¹ (cfm)	253.0 (149.0)	304.0 (179.0)	505.0 (297.4)	606.0 (357.0) 530.0 (312.0) - SV 200	
Max. effective pumping speed m³ x h⁻¹ (cfm) with backing pump TRIVAC SOGEVAC SOGEVAC	210.0 (123.7) D 65 B –	251.0 (148.0) D 65 B –	410.0 (241.0) - SV 200		
Ultimate total pressure ²⁾ mbar (Torr)	< 8 x 10 ⁻⁴ (< 6 x 10 ⁻⁴)	< 8 x 10 ⁻⁴ (< 6 x 10 ⁻⁴)	< 4 x 10 ⁻² (< 3 x 10 ⁻²)	< 4 x 10 ⁻² (< 3 x 10 ⁻²)	
Max. permissible pressure difference during continuous operation ³ mbar (Torr)	80.0 (60.0)	80.0 (60.0)	80.0 (60.0)	80.0 (60.0)	
Leak rate, integral mbar x I x s ⁻¹	< 5 x 10 ⁻⁴				
Mains supply V V	200-240 380-400	200-240 380-480	200-240 380-400	200-240 380-480	
Thermal class	F	F	F	F	
Permissible ambient temperatures °C (°F)	+5 to +40 (+ 41 to +104)				
Motor power kW (hp)	1.1 (1.5)	1.1 (1.5)	2.2 (3.0)	2.2 (3.0)	
Energy efficiency class	IE 2	IE 2	IE 2	IE 2	
Nominal speed, approx. rpm	3000	3600	3000	3600	
Max. permissible speed rpm	3600	3600	3600	3600	
Type of protection IP	55	55	55	55	
ATEX protection category 4)	Category 3i	Category 3i	Category 3i	Category 3i	
Lubricant for the bearing chamber ⁵⁾ vertical pumping action, approx. I (qt) horizontal pumping action, approx. I (qt)	0.6 (0.63) 0.45 (0.48)	0.6 (0.63) 0.45 (0.48)	0.8 (0.85) 0.7 (0.74)	0.8 (0.85) 0.7 (0.74)	
Lubricant of the shaft sealing ring housing I (qt)	0.6 (0.63)	0.6 (0.63)	1.0 (1.06)	1.0 (1.06)	
Connection flanges DN	63 ISO-K	63 ISO-K	63 ISO-K	63 ISO-K	
Materials (materials in contact with the gas)	C steel, CrNi steel, grey cast iron, FPM (FKM)				
Weight WA / WAU kg (lbs)	85.0 / 89.0 (187.4 / 196.2)	85.0 / 89.0 (187.4 / 196.2)	128.0 / 133.0 (282.2 / 293.3)	128.0 / 133.0 (282.2 / 293.3)	
Noise level ⁶⁾ dB(A)	< 62	< 64	< 65	< 67	

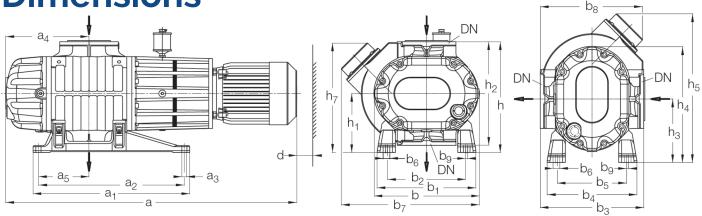
PROVAC SALES, INC. 3131 SOQUEL DRIVE, SOQUEL CA 95073



Leybold WA/WAU-251, 501 Pumping Curves







Туре		DN	a 1)	a,		a ₂	a3	a4	a _s	a _e	b
	mm	63	732	405		365	14	209	120	194	250
	in.		28.82	15.94	1	4.37	0.55	8.23	4.72	7.64	9.84
WA/WAU 501 mm in.	mm	63	830	486		450	14	237	155	218	310
	in.		32.68	19.13	1	7.72	0.55	9.33	6.10	8.58	12.20
		b,	b ₂	b3	b4	b ₅	b ₆	b ₇ ²⁾	b _s	b,	d
WA/WAU 251	mm	270	210	280	230	170	24	305	285	7.5	50
	in.	10.63	8.27	11.02	9.06	6.69	0.94	12.01	11.22	0.30	2.00
WA/WAU 501	mm	299	229	320	271	201	24	390	313	7.5	50
	in.	11 77	9.02	12.60	10.67	7.91	0.94	15.35	12 32	0.30	2.00
		h	h,	h ₂	h ₃	h ₄	h ₅ 2)	h _e	h ₇		
WA/WAU 251	mm	300	160	280	180	306	360	330	307		
	in.	11.81	6.30	11.02	7.09	12.05	14.17	12.99	12.09		
WA/WAU 501	mm	340	180	320	194	348	430	370	332		
	in.	13.39	7.09	12.60	7.48	13.70	16.93	14.57	13.07		

PROVAC SALES, INC. 3131 SOQUEL DRIVE, SOQUEL CA 95073



Leybold WA/WAU-251, 501 Features & Benefits

- reliable & trouble-free
- sealing rings & their housing can be readily replaced
- easy to exchange with custom motors
- integrated pressure equilization line for protection against overloading
- conversion from vertical to horizontal pumping action can be done
- provided with directly flange-mounted air-cooled, 3 phase motors

Applications

- vacuum coating · chemistry · pharmaceutical · metallurgy · furnaces
- packaging · central vacuum supply systems · freeze drying · electrical engineering · mechanical engineering · automotive industry

