



# Leybold WH, WHU-2500

## Technical Specifications

		WH /WHU 2500			
		50 Hz	60 Hz	80 Hz <sup>1)</sup>	100 Hz <sup>1)</sup>
Nominal pumping speed <sup>2)</sup>	m <sup>3</sup> x h <sup>-1</sup> (cfm)	2500 (1473)	3000 (1767)	4000 (2356)	5000 (2945)
Max. effective pumping speed with backing pump DRYVAC DV 650	m <sup>3</sup> x h <sup>-1</sup> (cfm)	2200 (1296)	2500 (1473)	3200 (1885)	3900 (2297)
Max. permissible pressure difference <sup>3), 4), 5)</sup> during continuous operation (WH)	mbar (Torr)	50 to 75 (37.5 to 56.3)	40 to 60 (30.0 to 45.0)	30 to 40 (22.5 to 30.0)	20 (15.0)
for short-cycle operation < 2 min. (WHU)	mbar (Torr)	160 (120)	160 (120)	- (-)	- (-)
Leak rate, integral	mbar x l x s <sup>-1</sup>	1 x 10 <sup>-5</sup>	1 x 10 <sup>-5</sup>	1 x 10 <sup>-5</sup>	1 x 10 <sup>-5</sup>
Mains voltage					
FC operation	V	340 to 530 180 to 260	340 to 530 180 to 260	340 to 530 180 to 260	340 to 530 180 to 260
Mains operation	V	360 to 440	410 to 500	-	-
Permissible ambient temperatures	°C (°F)	+5 to +50 (+41 to +122)	+5 to +50 (+41 to +122)	+5 to +50 (+41 to +122)	+5 to +50 (+41 to +122)
Nominal power rating					
FC operation (WH)	kW (hp)	11.0 (14.8)	11.0 (14.8)	11.0 (14.8)	11.0 (14.8)
Mains operation					
WH	kW (hp)	6.5 (8.7)	7.5 (10.0)	-	-
WHU (S6 operation)	kW (hp)	15.0 (20.1)	18.0 (24.1)	-	-
Idle mode power consumption	kW (hp)	0.7 (0.9)	0.9 (1.2)	1.2 (1.6)	1.4 (1.9)
Energy efficiency class		IE 2	IE 2	IE 2	IE 2
Nominal speed	rpm	3000	3600	4800	6000
Max. permissible speed with FC <sup>6)</sup>	rpm	6000	6000	6000	6000
Type of protection (int. FC/ext. FC)	IP	54/55	54/55	54/55	54/55
Cooling water connection (2 pcs.)	G	1/4", female	1/4", female	1/4", female	1/4", female
Cooling water quantity <sup>7)</sup>	l/min	1 to 3	1 to 3	1 to 3	1 to 3
Cooling water admission temperature	°C (°F)	+5 to +35 (+41 to +95)	+5 to +35 (+41 to +95)	+5 to +35 (+41 to +95)	+5 to +35 (+41 to +95)
Permissible cooling water pressure	bar	2 to 6	2 to 6	2 to 6	2 to 6
Lubricant <sup>8)</sup>	l (qt)	1.2 (1,27)	1.2 (1,27)	1.2 (1,27)	1.2 (1,27)
Connection flange					
Inlet	ISO-K	250	250	250	250
Outlet	ISO-K	100	100	100	100
Weight					
WH/WHU	kg (lbs)	390/410 (861/905)	390/410 (861/905)	390/410 (861/905)	390/410 (861/905)
WH with integrated FC	kg (lbs)	430 (946)	430 (946)	430 (946)	430 (946)
Dimension (W x B x H)					
WH	mm (in.)	1015 x 428 x 354 (39.96 x 16.85 x 13.94)	1015 x 428 x 354 (39.96 x 16.85 x 13.94)	1015 x 428 x 354 (39.96 x 16.85 x 13.94)	1015 x 428 x 354 (39.96 x 16.85 x 13.94)
WH with integrated FC	mm (in.)	1076 x 570 x 354 (42.36 x 22.44 x 13.94)	1076 x 570 x 354 (42.36 x 22.44 x 13.94)	1076 x 570 x 354 (42.36 x 22.44 x 13.94)	1076 x 570 x 354 (42.36 x 22.44 x 13.94)
Noise level <sup>9)</sup>	dB(A)	< 63	< 63	< 63	< 63



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## SALES

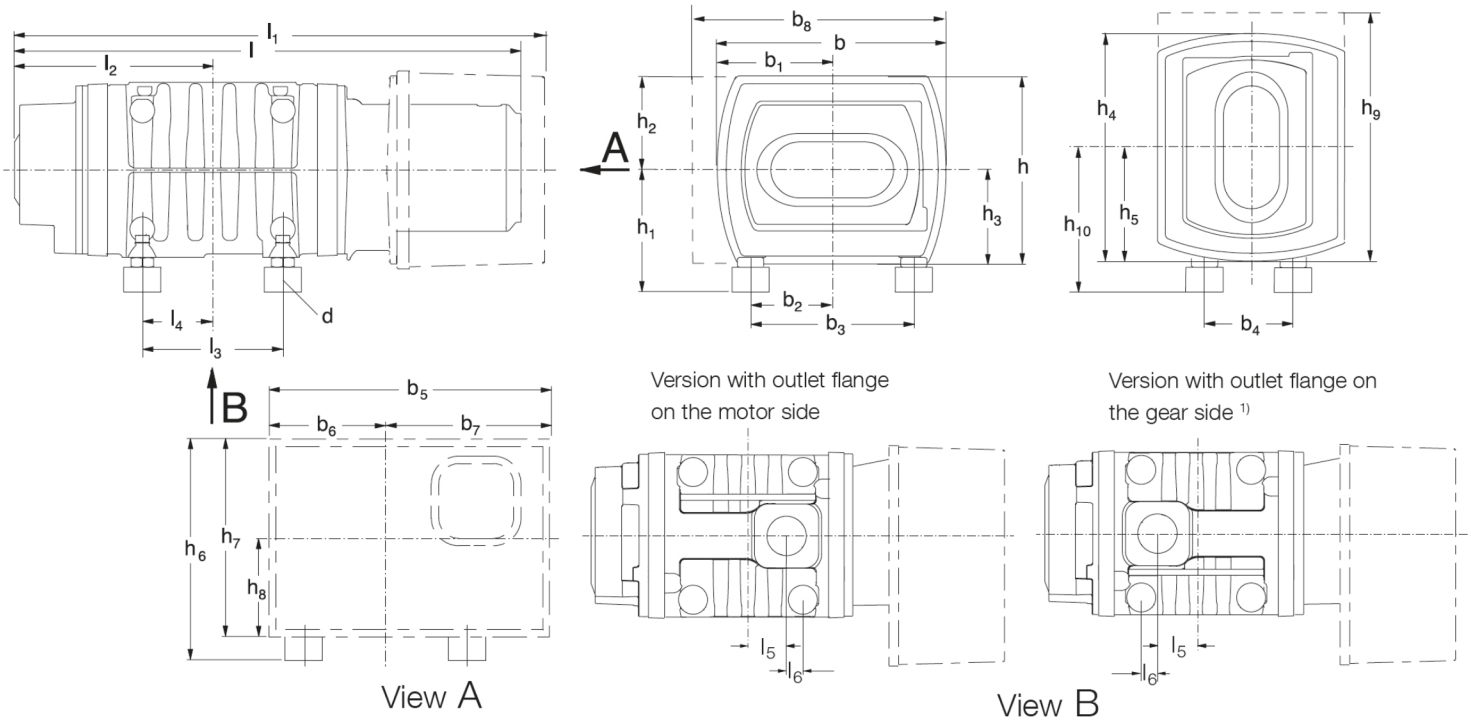
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## Dimensions



Type		Inlet flange	Outlet flange	l	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	l <sub>6</sub>	d
WH 2500	mm	250 ISO-K	100 ISO-K	1015	1076	400	284	142	100	42	M 12
	in.			39.96	42.36	15.75	11.18	5.59	3.94	1.65	M 12
WHU 2500	mm	250 ISO-K	100 ISO-K	1015	-	400	284	142	100	42	M 12
	in.			39.96	-	15.75	11.18	5.59	3.94	1.65	M 12
Type		b	b <sub>1</sub>	b <sub>2</sub>	b <sub>3</sub>	b <sub>4</sub>	b <sub>5</sub>	b <sub>6</sub>	b <sub>7</sub>	b <sub>8</sub>	h
WH 2500	mm	428	214	165	330	-	570	236	334	-	-
	in.	16.85	8.43	6.50	12.99	-	22.44	9.29	13.15	-	-
WHU 2500	mm	-	214	165	330	-	-	-	-	508	354
	in.	-	8.43	6.50	12.99	-	-	-	-	20.00	13.94
Type		h <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	h <sub>5</sub>	h <sub>6</sub>	h <sub>7</sub>	h <sub>8</sub>	h <sub>9</sub>	h <sub>10</sub>
WH 2500	mm	247	177	177	-	-	447	400	200	-	-
	in.	9.72	6.97	6.97	-	-	17.60	15.75	7.87	-	-
WHU 2500	mm	247	177	177	-	-	447	400	200	-	-
	in.	9.72	6.97	6.97	-	-	17.60	15.75	7.87	-	-



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## Leybold WH, WHU-2500

### Features & Benefits

- lower energy costs through innovative motor technology
- minimized space requirements due to compact design
- easy system integration
- optimum price-to-performance ratio
- integrated water cooling system for installation within closed systems
- parts in contact with cooling water are corrosion-free
- hermetically sealed motor
- long service intervals and no oil leaks
- easy conversion from vertical to horizontal pumping action

### Applications

- vacuum coating • large scale research • metallurgy • furnaces
- central vacuum supply systems • leak testing systems • electrical engineering • high purity gases, closed refrigerant cycles
- mechanical engineering • automotive industry

### Pumping Curves

