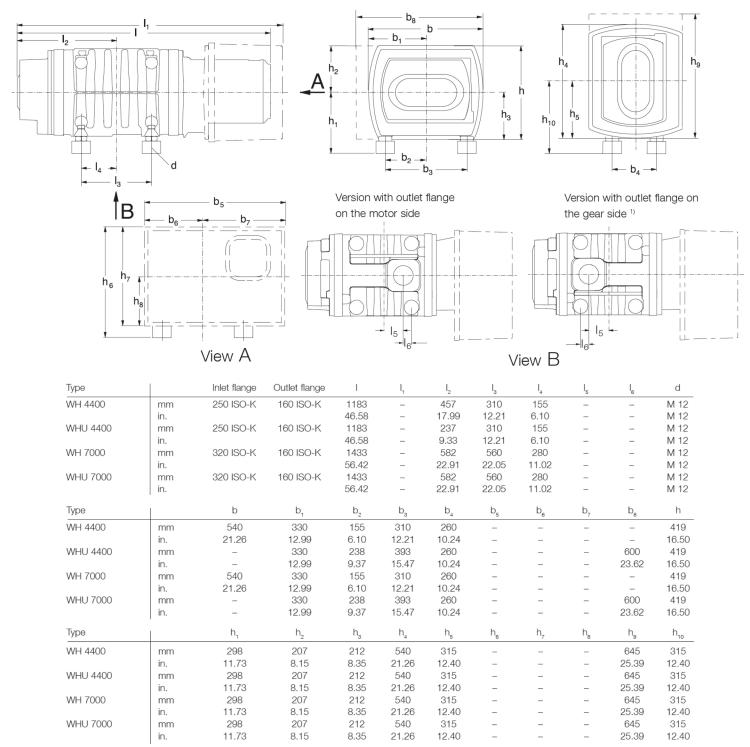
Leybold WH, WHU-4400, 7000 **Technical Specifications**

Nominal pumping speed 2) m³ x h⁻¹ (cfm) Max. effective pumping speed with backing pump DRYVAC DV 650 m³ x h⁻¹ (cfm) and RUVAC WH 2500 m³ x h⁻¹ (cfm) Max. permissible pressure difference 3, 4, 5) during continuous operation (WH) mbar (Torr) for short-cycle operation < 2 min. (WHU) mbar (Torr)	3300 (1944) 3700 (2179) 30 to 45 (22.5 to 33.75)	5280 (3100) 3900 (2297) 4400 (2592) 20 to 30 15.0 to 22.5)	7040 (4147) 4800 (2827) 5800 (3416)	7000 (4123) 4700 (2768) 5700 (3357)	60 Hz 8400 (4948) 5300 (3122) 6800 (4005)	70 Hz ¹⁾ 9800 (5772) 5800 (3416)
Max. effective pumping speed with backing pump DRYVAC DV 650 m³ x h⁻¹ (cfm) and RUVAC WH 2500 m³ x h⁻¹ (cfm) Max. permissible pressure difference ³³, ⁴³, ⁵¹ during continuous operation (WH) mbar (Torr) for short-cycle operation < 2 min. (WHU) mbar	3300 (1944) 3700 (2179) 30 to 45 (22.5 to 33.75)	3900 (2297) 4400 (2592) 20 to 30	4800 (2827) 5800 (3416)	4700 (2768)	5300 (3122)	5800 (3416)
with backing pump DRYVAC DV 650 m³ x h⁻¹ (cfm) and RUVAC WH 2500 m³ x h⁻¹ (cfm) Max. permissible pressure difference ³⅓, ⁴⅓, ⁵⟩ during continuous operation (WH) mbar (Torr) for short-cycle operation < 2 min. (WHU) mbar	3700 (2179) 30 to 45 (22.5 to 33.75)	4400 (2592) 20 to 30	5800 (3416)	, ,	,	, ,
DRYVAC DV 650 m³ x h⁻¹ (cfm) and RUVAC WH 2500 m³ x h⁻¹ (cfm) Max. permissible pressure difference ³3, 43, 5) during continuous operation (WH) mbar (Torr) for short-cycle operation < 2 min. (WHU) mbar	3700 (2179) 30 to 45 (22.5 to 33.75)	4400 (2592) 20 to 30	5800 (3416)	, ,	,	, ,
and RUVAC WH 2500 m³ x h⁻¹ (cfm) Max. permissible pressure difference ³, ⁴, ⁵, ⁵) during continuous operation (WH) mbar (Torr) for short-cycle operation < 2 min. (WHU) mbar	3700 (2179) 30 to 45 (22.5 to 33.75)	4400 (2592) 20 to 30	5800 (3416)	, ,	,	, ,
Max. permissible pressure difference 3), 4), 5) during continuous operation (WH) mbar (Torr) for short-cycle operation < 2 min. (WHU) mbar	30 to 45 (22.5 to 33.75)	20 to 30	,	0700 (0007)	0000 (1000)	7800 (4594)
during continuous operation (WH) mbar (Torr) for short-cycle operation < 2 min. (WHU) mbar	(22.5 to 33.75)		8 to 12			7 0 0 0 (10 0 1)
(Torr) for short-cycle operation < 2 min. (WHU) mbar	(22.5 to 33.75)			20 to 30	14 to 21	11 to 14
mbar	, , ,		(6.0 to 9.0)	15.0 to 22.5)	(10.5 to 15.75)	(8.25 to 10.5)
	120		,	,	, ,	,
(Torr)	120	120	_	60	60	-
	(90)	(90)	(-)	(45)	(45)	(-)
Leak rate, integral mbar x l x s ⁻¹	1 x 10 ⁻⁵	1 x 10 ⁻⁵	1 x 10⁻⁵	1 x 10 ⁻⁵	1 x 10 ⁻⁵	1 x 10 ⁻⁵
Mains voltage						
FC operation V	340 to 530	340 to 530	340 to 530	340 to 530	340 to 530	340 to 530
	180 to 260	180 to 260 ⁶⁾	180 to 260	180 to 260	180 to 260 ⁶⁾	180 to 260
Mains operation V	360 to 440	410 to 500	_	360 to 440	410 to 500	_
	180 to 220	210 to 260 ⁶⁾		180 to 220	210 to 260 ⁶⁾	
Permissible ambient temperatures °C (°F)	+5 to +40	+5 to +40 (+41 to +104)	+5 to +40	+5 to +40	+5 to +40	+5 to +40
, ,	(+41 to +104)	(+41 (0 +104)	(+41 to +104)	(+41 to +104)	(+41 to +104)	(+41 to +104)
Nominal power consumption (alternatively) FC operation kW	11.0 / 15.0	11.0 / 15.0	11.0 / 15.0	11.0 / 15.0	11.0 / 15.0	11.0 / 15.0
			(14.75 / 20.12)	(14.75 / 20.12)	(14.75 / 20.12)	
Mains operation kW	11.0 / 18.5	11.0 / 18.5	-	11.0 / 18.5	11.0 / 18.5	-
			_	(14.75 / 24.81)	(14.75 / 24.81)	_
dle mode power consumption kW (hp)	1.2 (1.6)	1.4 (1.9)	2.0 (2.7)	1.2 (1.6)	1.4 (1.9)	2.0 (2.7)
Energy efficiency class	IE 2	IE 2	IE 2	IE 2	IE 2	IE 2
Nominal speed rpm	3000	3600	4800	3000	3600	4200
Max. permissible speed 7) rpm	4800	4800	4800	4200	4200	4200
Type of protection IP	54	54	54	54	54	54
Water connection (2 pcs.)	1/4", female	1/4", female	1/4", female	1/4", female	1/4", female	1/4", female
Cooling water quantity 8) I/min	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3
Cooling water admission temperature °C	5 to 35	5 to 35	5 to 35	5 to 35	5 to 35	5 to 35
(°F)	(+41 to +95)	(+41 to +95)	(+41 to +95)	(+41 to +95)	(+41 to +95)	(+41 to +95)
Permissible cooling water pressure bar	2 to 6	2 to 6	2 to 6	2 to 6	2 to 6	2 to 6
Lubricant ⁹⁾ I (qt)	4.75 (5.0)	4.75 (5.0)	4.75 (5.0)	4.75 (5.0)	4.75 (5.0)	4.75 (5.0)
Connection flange	5 (0.0)	5 (0.0)	5 (0.0)	5 (0.0)	5 (0.0)	5 (0.0)
Inlet ISO-K	250	250	250	320	320	320
Outlet ISO-K	160	160	160	160	160	160
Weight						
WH kg (lbs)	590 (1301)	590 (1301)	590 (1301)	650 (1433)	650 (1433)	650 (1433)
WHU kg (lbs)	620 (1369)	620 (1369)	620 (1369)	715 (1578)	715 (1578)	715 (1578)
	1183 x 540 x 415	1183 x 540 x 415	1183 x 540 x 415	1433 x 540 x 415	1433 x 540 x 415	1433 x 540 x 415
	(46.57x21.26x16.34)	(46.57x21.26x16.34)	(46.57x21.26x16.34)	(56.427x21.26x16.34)		(56.427x21.26x16.34)
Noise level 10) dB(A)	< 63	< 63	< 63	< 63	< 63	< 63

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Leybold WH, WHU-4400, 7000 Dimensions



¹⁾ The outlet flange for WH 700/4400/7000 is centric of the housing. For WH 2500 the outlet flange is peripheral arbitrary

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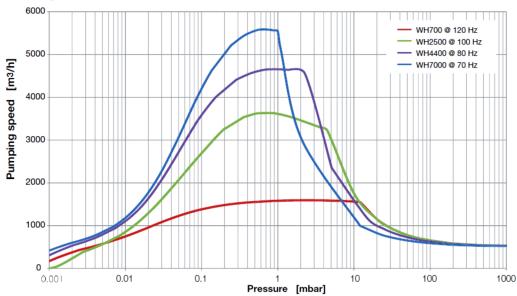
Leybold WH, WHU-4400, 7000 **Features & Benefits**

- 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



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