



Leybold TMP-1000C

Technical Specifications

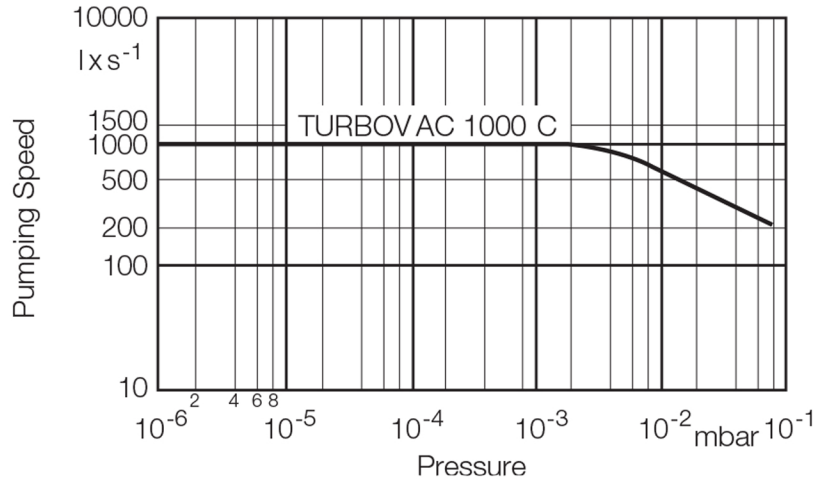
TURBOVAC 1000 C

Connection				
Inlet	DN	160 ISO-K • 160 CF	200 ISO-K • 200 CF	250 ISO-K
Outlet	DN	40 ISO-KF • 63 ISO-K	40 ISO-KF	40 ISO-KF • 63 ISO-K
Pumping speed				
N ₂	l x s ⁻¹	850	1100	1150
Ar	l x s ⁻¹	810	1050	1100
He	l x s ⁻¹	880	975	1000
H ₂	l x s ⁻¹	900	970	1000
Gas throughput				
N ₂	mbar · l x s ⁻¹	6.5	6.5	6.5
Ar	mbar · l x s ⁻¹	4.0	4.0	4.0
He	mbar · l x s ⁻¹	7.0	7.0	7.0
H ₂	mbar · l x s ⁻¹	8.0	8.0	8.0
Compression ratio				
N ₂		> 1 x 10 ⁹	> 1 x 10 ⁹	> 1 x 10 ⁹
Ar		> 1 x 10 ⁹	> 1 x 10 ⁹	> 1 x 10 ⁹
He		5 x 10 ⁴	5 x 10 ⁴	5 x 10 ⁴
H ₂		1 x 10 ⁴	1 x 10 ⁴	1 x 10 ⁴
Ultimate pressure	mbar (Torr)	< 1 x 10 ⁻¹⁰ (< 7.5 x 10 ⁻¹¹)	< 1 x 10 ⁻¹⁰ (< 7.5 x 10 ⁻¹¹)	< 1 x 10 ⁻¹⁰ (< 7.5 x 10 ⁻¹¹)
Max. foreline pressure for N₂	mbar (Torr)	5 x 10 ⁻² (3.8 x 10 ⁻²)	5 x 10 ⁻² (3.8 x 10 ⁻²)	5 x 10 ⁻² (3.8 x 10 ⁻²)
Recommended forevacuum pump				
for standard operation		TRIVAC D 25 B / D 40 B	TRIVAC D 25 B / D 40 B	TRIVAC D 25 B / D 40 B
for purge gas operation		TRIVAC D 40 B / D 65 B	TRIVAC D 40 B / D 65 B	TRIVAC D 40 B / D 65 B
Nominal rotation speed	min ⁻¹ (rpm)	36 000	36 000	36 000
Run-up time, approx.	min	9	9	9
Max. power consumption	W	300	300	300
Power consumption at ultimate pressure	W	200	200	200
Admissible ambient temperature	°C (°F)	10 to 55 (50 to 131)	10 to 55 (50 to 131)	10 to 55 (50 to 131)
Cooling				
standard		Water	Water	Water
optional		Air	Air	Air
Cooling water connection		10 mm hose nozzle	10 mm hose nozzle	10 mm hose nozzle
Cooling water consumption	l x h ⁻¹	20 to 80	20 to 80	20 to 80
Permissible cooling water pressure	bar	3 to 7	3 to 7	3 to 7
Permissible cooling water temperature	°C (°F)	10 to 30 (50 to 86)	10 to 30 (50 to 86)	10 to 30 (50 to 86)
Weight	kg (lbs)	25.0 (55.1)	25.0 (55.1)	25 (55.1)



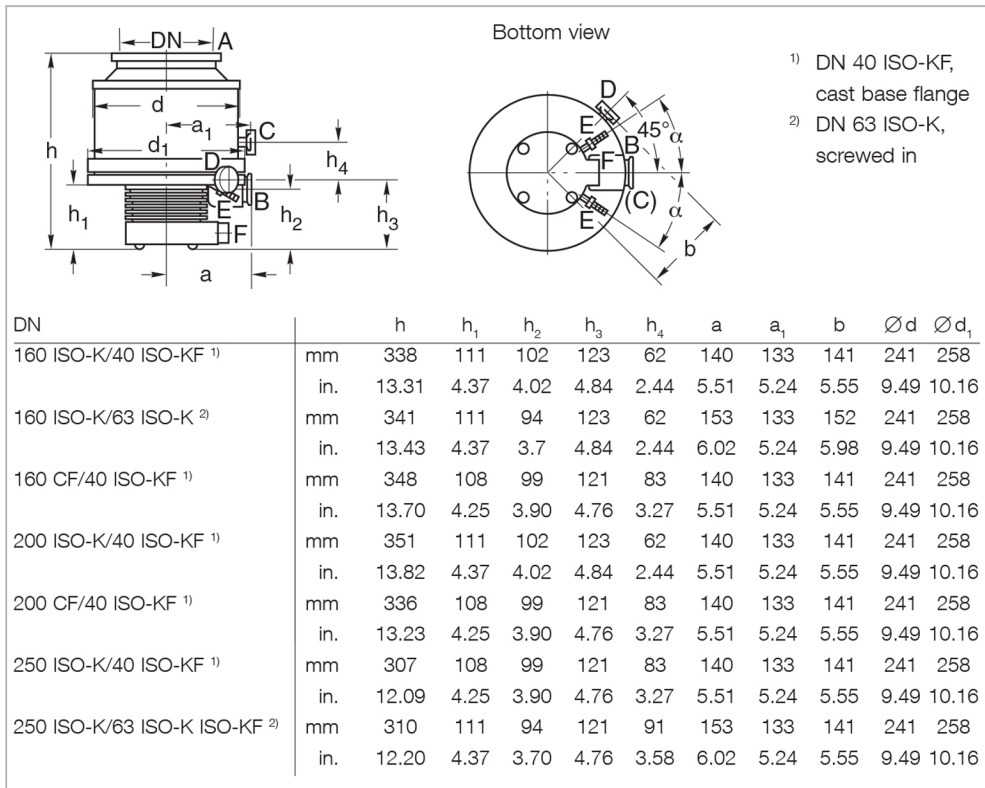
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Pumping Curves



Pumping speed for air as a function of intake pressure (TURBOVAC 1000 C with DN 250 flange)

Dimensions





PROVAC

SALES

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Leybold TMP-1000C

Features & Benefits

- installation in any orientation
- highly reliable due to hybrid ceramic ballbearings
- robust motor design
- seal gas connection
- venting connection
- highest pumping speed and highest throughput
- purge gas facility
- standard model: water cooling



Applications

- data storage • flat panel display • optical coating • large area coating
- decorative coating • metallization • wear protection • metallurgy
- surface analysis • UHV / XHV systems • particle accelerators • fusion experiments • space simulation • load locks • transfer chambers
- research systems • evaporation and sputtering systems