



# Leybold TMP-50, TMP-50D2

## Technical Specifications

TURBOVAC		50	50	50	50	50 D	50 D	50 D	50 D	50 D2
High-vacuum port	nom.diam.	40 KF	40 CF	63 ISO-K	63 CF	40 KF	40 CF	63 ISO-K	63 CF	63 ISO-K
Pumping speed for N <sub>2</sub>	l/sec	33	29	55	55	35	35	55	55	55
Ultimate pressure	mbar	8·10 <sup>-9</sup>	< 8·10 <sup>-9</sup>	8·10 <sup>-9</sup>	< 8·10 <sup>-9</sup>	8·10 <sup>-9</sup>	< 10 <sup>-9</sup>	8·10 <sup>-9</sup>	< 10 <sup>-9</sup>	< 10 <sup>-9</sup>
Forevacuum pressure	mbar	10 <sup>-3</sup> - 10 <sup>-2</sup>	10 <sup>-3</sup> - 10 <sup>-2</sup>	10 <sup>-3</sup> - 10 <sup>-2</sup>	10 <sup>-3</sup> - 10 <sup>-2</sup>	5	5	5	5	15
Recommended fore-vacuum pump	TRIVAC	D 1,6 B	D 1,6 B	D 1,6 B	D 1,6 B	S 1,6 B	S 1,6 B	S 1,6 B	S 1,6 B	Diaphragm pump
Recommended frequency converter	NT	10/12/13	10/12/13	10/12/13	10/12/13	10/12/13	10/12/13	10/12/13	10/12/13	10/12/13
Speed	rpm	72 000	72 000	72 000	72 000	72 000	72 000	72 000	72 000	72 000
Run-up time	approx. min	2	2	2	2	3	3	3	3	3
Coolant flow rate at 15 °C*	l/hr	20	20	20	20	20	20	20	20	20
Forevacuum port	nom. diam.	16 KF	16 KF	16 KF	16 KF	16 KF	16 KF	16 KF	16 KF	16 KF
Purge gas port	nom. diam.	-	-	-	-	-	-	-	-	-
Vent port	nom. diam.	-	10 KF	-	10 KF	-	10 KF	-	10 KF	-
Weight, approx.	kg	2	2	2	2	2	2	2	2	2
Max. bakeout temperature at CF flange	°C	-	80	-	80	-	80	-	80	-





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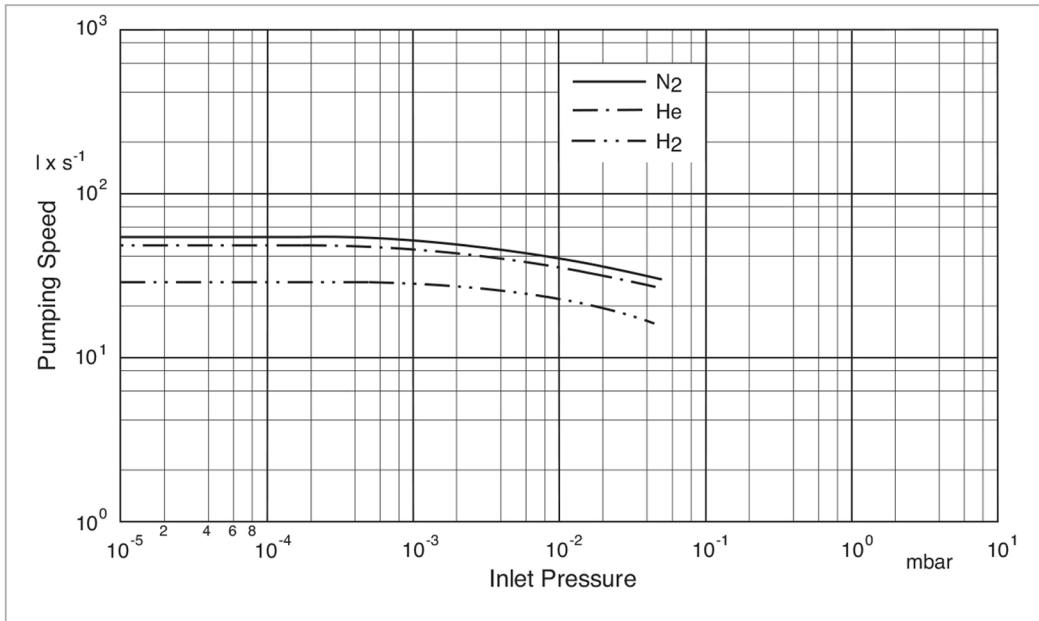
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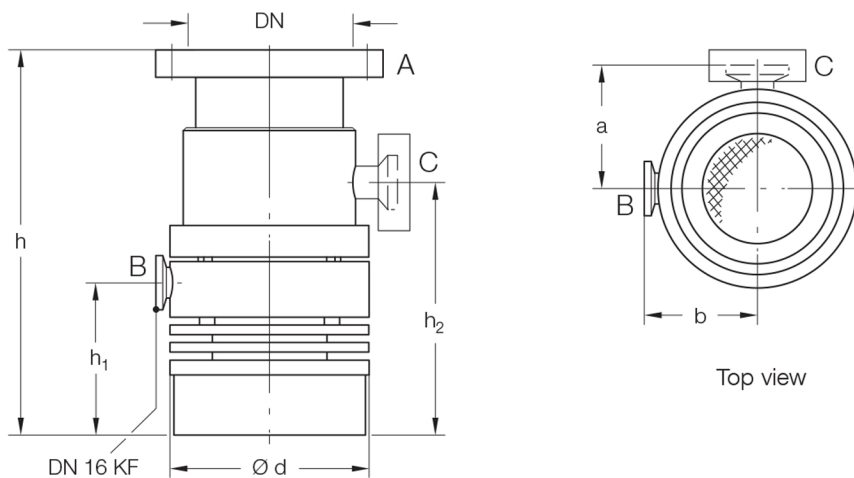
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## Pumping Curves



Pumping speed as a function of the inlet pressure (TURBOVAC 50 with flange DN 63 ISO-K)

## Dimensions



DN		a	b	d	h	h <sub>1</sub>	h <sub>2</sub>
40 ISO-KF	mm	54.5	55	93	166	71.5	119
	in.	2.15	2.17	3.66	6.54	2.81	4.69
63 ISO-K	mm	54.5	55	93	157.5	71.5	119
	in.	2.15	2.17	3.66	6.20	2.81	4.69



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# Leybold TMP-50, TMP-50D2

## Features & Benefits

- small footprint
- space-saving
- low operating costs
- installation in any orientation
- cooling by convection is sufficient for most applications
- air and water cooling can be added easily
- easy to integrate into complex vacuum systems
- highly reliable operation also in processes loaded with particles
- oil-free pump for generating clean high and ultra-high vacuum conditions

## Applications

- leak detectors • mass spectrometers • electron beam microscopy
- TV tube manufacturing • load locks and transfer chambers • high vacuum chambers