



# Leybold TW 70H

## Technical Specifications

		TURBOVAC TW 70 H	
		O-ring sealed 63 ISO-K	Metal sealed 63 CF
Inlet flange	DN		
Pump housing		Aluminum	Stainless steel
Pumping speed at 10 <sup>-5</sup> / 10 <sup>-3</sup> mbar			
N <sub>2</sub>	l x s <sup>-1</sup>	60 / 56	60 / 56
Ar	l x s <sup>-1</sup>	56 / 54	56 / 54
H <sub>2</sub>	l x s <sup>-1</sup>	40 / 38	40 / 38
He	l x s <sup>-1</sup>	52 / 50	52 / 50
Max. gas throughput <sup>1)</sup> at 10 <sup>-1</sup> mbar			
N <sub>2</sub>	mbar x l x s <sup>-1</sup>	1.9	1.9
Ar	mbar x l x s <sup>-1</sup>	2.4	2.4
H <sub>2</sub>	mbar x l x s <sup>-1</sup>	1.3	1.3
He	mbar x l x s <sup>-1</sup>	1.9	1.9
Max. compression when idle			
N <sub>2</sub>		1 x 10 <sup>8</sup> at 14 mbar	1 x 10 <sup>10</sup> at 10 mbar
Ar		1 x 10 <sup>7</sup> at 14 mbar	
H <sub>2</sub>		4 x 10 <sup>3</sup> at 0.2 mbar	
He		2 x 10 <sup>5</sup> at 2 mbar	
Ultimate pressure			
with two-stage oil-sealed rotary vane vacuum pump			
TRIVAC D 2,5 E	mbar (Torr)	< 5 x 10 <sup>-8</sup> (< 3.75 x 10 <sup>-9</sup> )	< 2 x 10 <sup>-10</sup> (< 1.5 x 10 <sup>-10</sup> )
with dry compressing scroll vacuum pump SC 5 D			
	mbar (Torr)		≤ 0.05 (≤ 0.04)
with diaphragm pump			
DIVAC 0.8 T	mbar (Torr)		< 5 x 10 <sup>-9</sup> (< 3.75 x 10 <sup>-9</sup> )
Max. foreline pressure for N <sub>2</sub>	mbar (Torr)	20 (15)	20 (15)
Recommended forevacuum pump			
two-stage oil-sealed rotary vane vacuum pump			
		TRIVAC D 2,5 E	TRIVAC D 2,5 E
diaphragm pump			
		DIVAC 0,8 T	DIVAC 0,8 T
oil-free scroll vacuum pump			
		SC 5 D	SC 5 D
Run-up time to 95% of nominal speed	min	1.5	1.5
Cooling water connection (option)		2 x G 1/8"	2 x G 1/8"
Weight, approx. with / without frequency converter	kg (lbs)	3.0 (6.62) / 2.3 (5.08)	3.0 (6.62) / 2.3 (5.08)
Supply voltage	V DC	24	24
Max. power consumption			
Run up / ultimate pressure	W	150 / 30	150 / 30

<sup>1)</sup> for continuous operation when water-cooled



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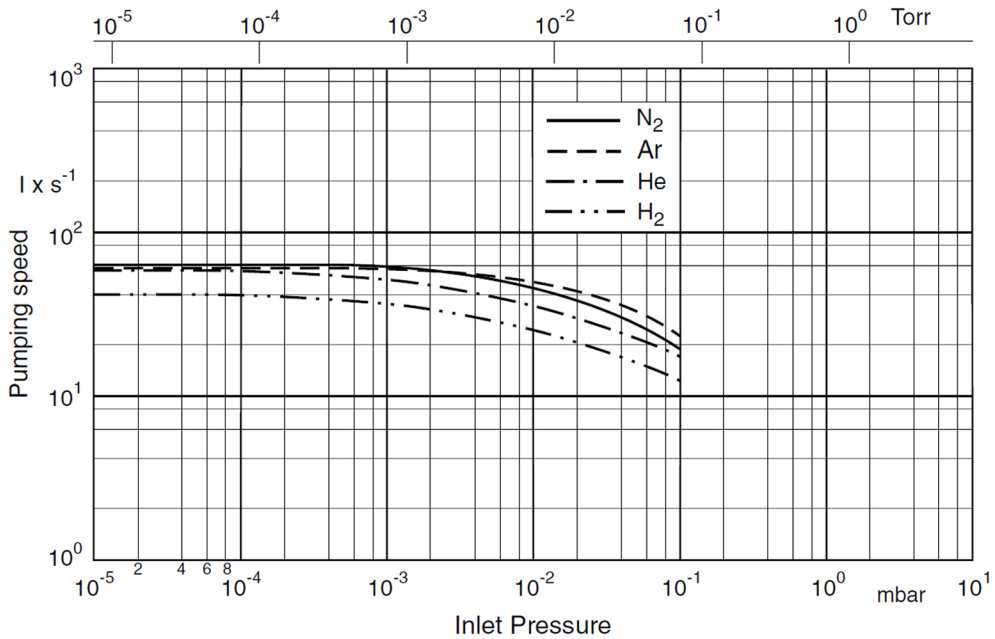
## SALES

PHONE: 831-462-8900

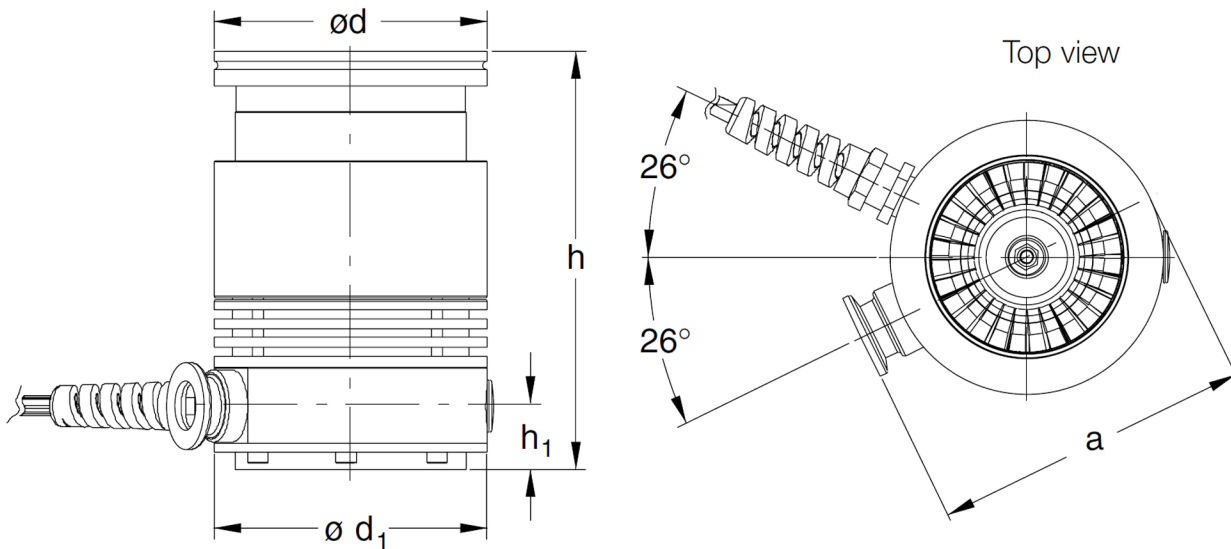
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# Leybold TW 70H Pumping Curves



## Dimensions



DN		a	h	h <sub>1</sub>	d	d <sub>1</sub>
63 ISO-K	mm	111	145	22	95	95
	in.	4.37	5.71	0.87	3.74	3.74
63 CF	mm	111	169	22	113.5	95
	in.	4.37	6.65	0.87	4.47	3.74



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## Leybold TW 70H Features & Benefits

- integrated or external frequency converter
- compact design, space-saving
- operation in any orientation
- high foreline tolerance
- oil-free pump for generating clean high & ultra high vacuum conditions
- easy to integrate into complex vacuum systems
- allows use of downsized forevacuum pumps
- low operating costs
- high reliability operation

## Applications

- mass spectrometer • electron beam microscopy • leak detector
- research & development • UHV system • load lock • transfer chamber

