PROVAC SALES
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Leybold TW 701

Technical Specifications

		TURBOVAC TW 701	
Inlet flange	**DN**	160 ISO-K	160 CF
Pumping speed			
N_2	l x s^{-1}	680	680
Ar	l x s^{-1}	600	600
He	l x s^{-1}	530	530
H_2	l x s^{-1}	330	330
Max. gas throughput			
N_2	mbar x l x s^{-1}	12	12
Ar	mbar x l x s^{-1}	5 (water-cooled)	5 (water-cooled)
He	mbar x l x s^{-1}	7	7
H_2	mbar x l x s^{-1}	2.5	2.5
Compression ratio			
N_2		8×10^8	8×10^8
Ar		1×10^8	1×10^8
He		1×10^6	1×10^6
H_2		2×10^4	2×10^4
Ultimate pressure	**mbar (Torr)**	$< 5.0 \times 10^{-9}$ ($< 3.75 \times 10^{-9}$)	$< 1.5 \times 10^{-10}$ ($< 1.1 \times 10^{-10}$)
Max. foreline pressure for N_2	**mbar (Torr)**	14 (10.5)	14 (10.5)
Recommended forevacuum pump		TRIVAC D 65 B SC 30 D	TRIVAC D 65 B SC 30 D
Run-up time to 95% speed	**min**	≈ 5	≈ 5
Purge port	**DN**	16 KF	16 KF
Cooling water connection		2x G 1/8" (internal threads)	2x G 1/8" (internal threads)
Weight, approx.	**kg (lbs)**	19 (42)	19 (42)
Supply voltage, nominal	**V DC**	59	59
Max. power consumption	**W**	500	500

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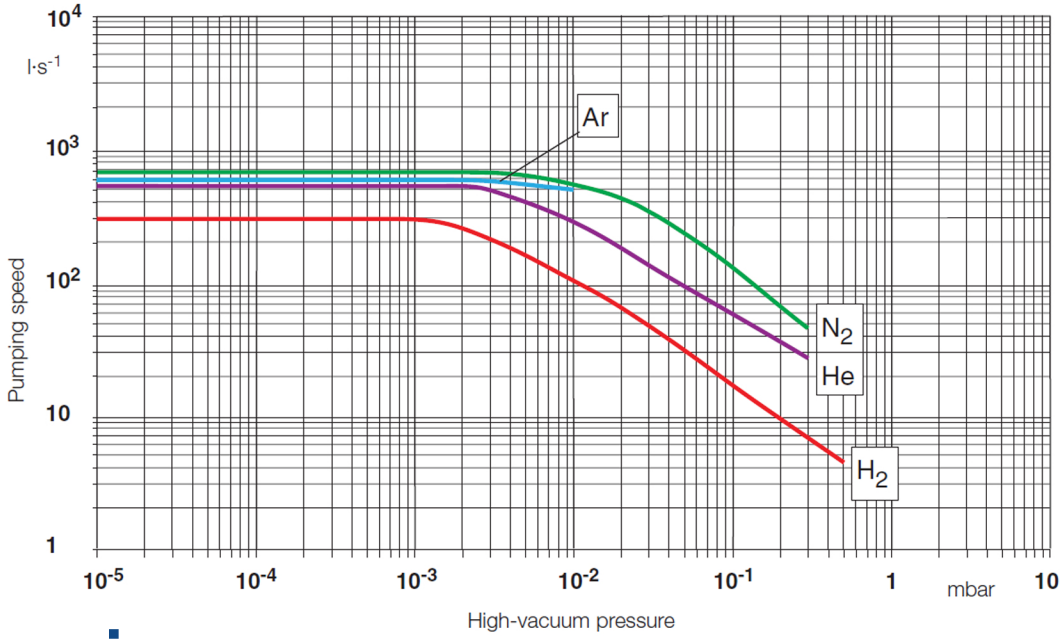
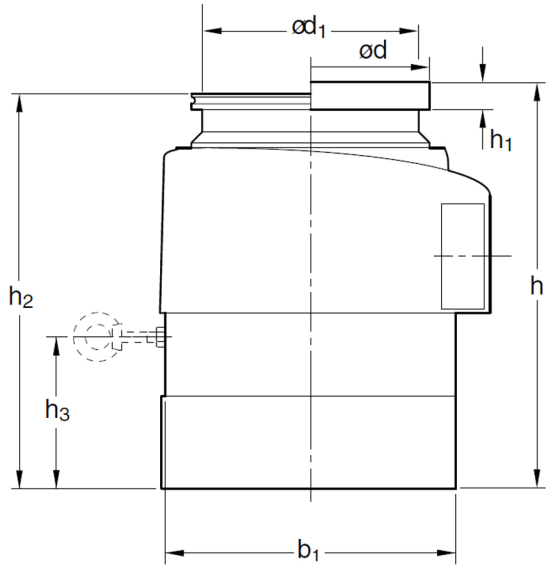
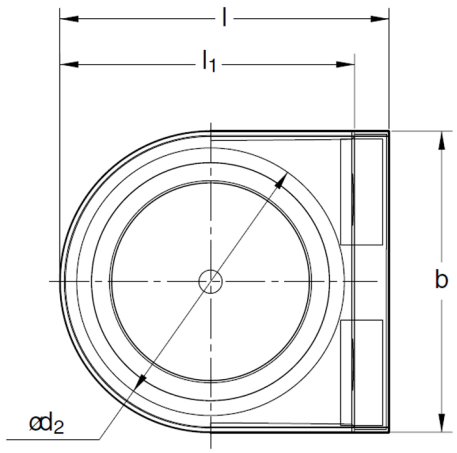
Pumping Curves



Dimensions





Top view

		b	b$_1$	d	d$_1$	d$_2$	h	h$_1$	h$_2$	h$_3$	l	l$_1$
DN160 ISO-K	mm	228	219	180	150	180	–	–	285	115	264	223
	in.	8.98	8.82	7.09	5.91	7.09	–	–	11.22	4.53	10.39	8.78
DN 160 CF	mm	228	219	–	150	180	295	12	–	115	264	223
	in.	8.98	8.82	–	5.91	7.09	11.61	0.47	–	4.53	10.39	8.78

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Features & Benefits

- integrated 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
- highly effective air cooling unit

Applications

- mass spectrometer • data storage • flat panel display • research & development • UHV system • particle accelerator • load lock
- transfer chamber