



# Leybold TMP-151, TMP-151C

## Technical Specifications

### TURBOVAC 151 (C)

Connection			
Inlet	DN	100 ISO-K	100 CF
Outlet	DN	25 ISO-KF	25 ISO-KF
Pumping speed			
N <sub>2</sub>	l x s <sup>-1</sup>	145	145
Ar	l x s <sup>-1</sup>	150	150
He	l x s <sup>-1</sup>	135	135
H <sub>2</sub>	l x s <sup>-1</sup>	115	115
Gas throughput			
N <sub>2</sub>	mbar · l x s <sup>-1</sup>	1.5	1.5
Ar	mbar · l x s <sup>-1</sup>	1.3	1.3
He	mbar · l x s <sup>-1</sup>	1.5	1.5
H <sub>2</sub>	mbar · l x s <sup>-1</sup>	1.0	1.0
Compression ratio			
N <sub>2</sub>		1 x 10 <sup>9</sup>	1 x 10 <sup>9</sup>
Ar		1 x 10 <sup>9</sup>	1 x 10 <sup>9</sup>
He		2 x 10 <sup>4</sup>	2 x 10 <sup>4</sup>
H <sub>2</sub>		8 x 10 <sup>2</sup>	8 x 10 <sup>2</sup>
Ultimate pressure	mbar (Torr)	< 1 x 10 <sup>-10</sup> (< 7.5 x 10 <sup>-11</sup> )	< 1 x 10 <sup>-10</sup> (< 7.5 x 10 <sup>-11</sup> )
Max. foreline pressure for N <sub>2</sub>	mbar (Torr)	5 x 10 <sup>-1</sup> (3.8 x 10 <sup>-1</sup> )	5 x 10 <sup>-1</sup> (3.8 x 10 <sup>-1</sup> )
Recommended forevacuum pump		from TRIVAC D 4 B to D 16 B	from TRIVAC D 4 B to D 16 B
Nominal rotation speed	min <sup>-1</sup> (rpm)	50 000	50 000
Run-up time, approx.	min	2	2
Max. power consumption	W	300	300
Power consumption at ultimate pressure	W	70	70
Admissible ambient temperature	°C (°F)	10 to 55 (50 to 131)	10 to 55 (50 to 131)
Cooling			
standard		Water	Water
optional		Air	Air
Cooling water connection		10 mm hose nozzle	10 mm hose nozzle
Cooling water consumption	l x h <sup>-1</sup>	15 to 35	15 to 35
Permissible cooling water pressure	bar	3 to 7	3 to 7
Permissible cooling water temperature	°C (°F)	10 to 25 (50 to 77)	10 to 25 (50 to 77)
Weight	kg (lbs)	8 (17)	8 (17)



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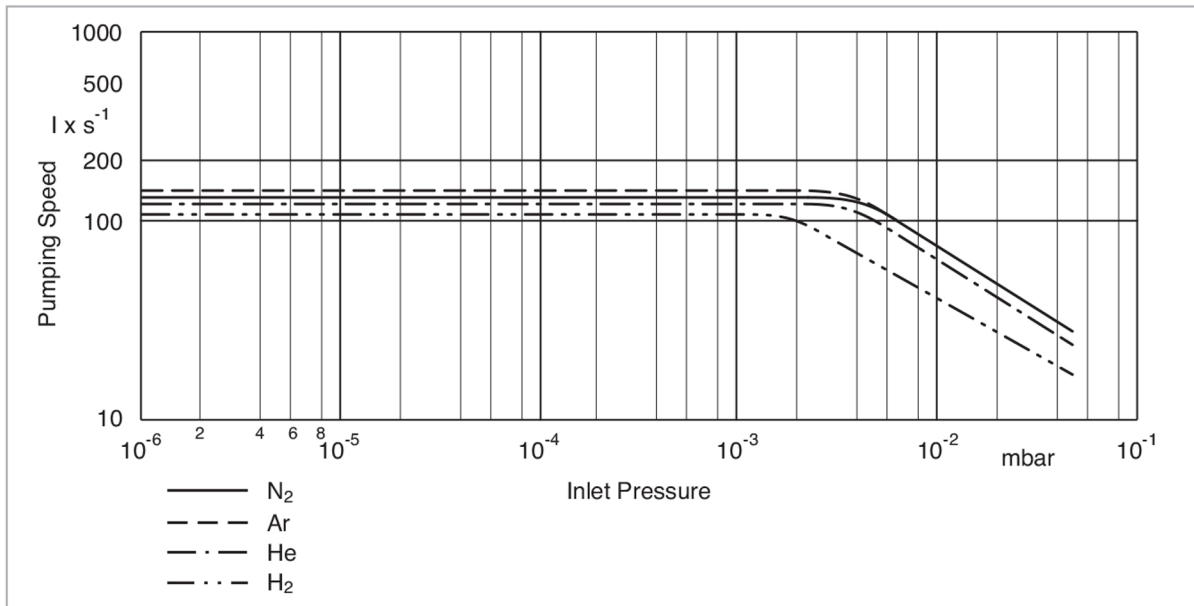
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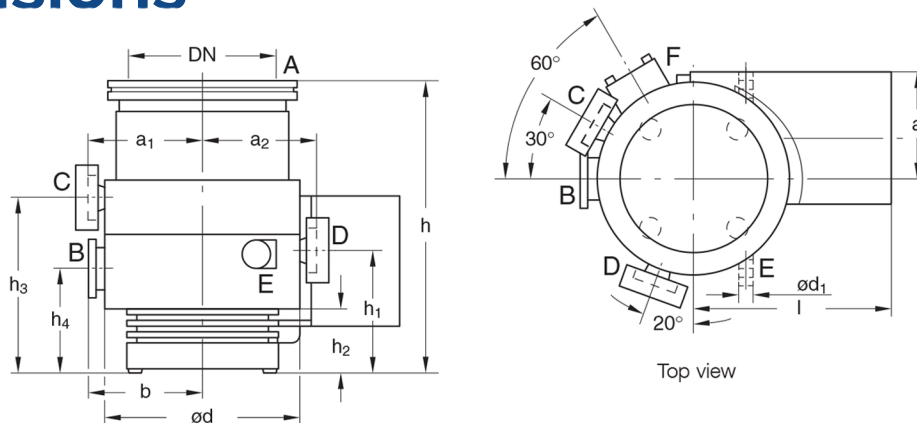
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## Pumping Curves



Pumping speed as a function of the inlet pressure (TURBOVAC 151 with flange DN 100)

## Dimensions



DN		151		151 C		h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	a	a <sub>1</sub>	a <sub>2</sub>	b	d	d <sub>1</sub>	l
		h	h	h <sub>1</sub>	h <sub>1</sub>										
100 ISO-K	mm	207	207	88	47	126	73	76	79	78	76	132	10	136	
	in.	8.14	8.14	3.46	1.85	4.96	2.87	2.99	3.11	3.07	2.99	5.20	0.39	5.35	
100 CF	mm	224	-	-	47	126	73	76	79	78	76	132	10	136	
	in.	8.82	-	-	1.85	4.96	2.87	2.99	3.11	3.07	2.99	5.20	0.39	5.35	

Dimensional drawing for the TURBOVAC 151 and 151 C

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# Leybold TMP-151, TMP-151C

## Features & Benefits

- pumps with a "C" in the type designation are equipped with a purge gas facility
- oil-free pump for generating clean, high, and ultra-high vacuum conditions
- easy to integrate into complex vacuum systems
- highly reliable operation also in processes loaded with particles
- space-saving
- small footprint
- low operating costs
- operation in any orientation

## Applications

- leak detectors • mass spectrometers • optical coating • research and development • UHV systems • particle accelerators • load locks and transfer chambers