

**œerlikon**  
leybold vacuum  
one company  
one future

## Product-Information **TURBOVAC 50**

TURBOVAC 50  
Cat. Nr.: 85402



## Product-Illustration

### Product-Description:

#### Typical Applications

- Leak detectors
- Mass spectrometers
- Electron beam microscopy
- TV tube manufacturing
- Load locks and transfer chambers

#### Technical Features

- Compact design
- Operation in any orientation
- Cooling by convection is sufficient for most applications

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- Air and water cooling can be added easily
- Oil-free pump for generating clean high- and ultrahigh-vacuum conditions

### Advantages to the User

- Space-saving
- Easy to integrate into complex vacuum systems
- Low operating costs
- Highly reliable operation also in processes loaded with particles

DN 63 CF/DN 16 KF, convection

Description	Unit	Value
Sealing		metal sealed
Inlet flange	DN	63 CF
Foreline flange	DN	16 KF
Pump housing		Stainless steel
Pumping speed at 10 E-3 mbar, N2	l x s E-1	55
Pumping speed at 10 E-3 mbar, He	l x s E-1	48
Pumping speed at 10 E-3 mbar, H2	l x s E-1	30
Max. gas throughput *) at 10 E-2 mbar, N2	mbar x l x s E-1	0.40
Max. gas throughput *) at 10 E-2 mbar, He	mbar x l x s E-1	0.35
Max. gas throughput *) at 10 E-2 mbar, H2	mbar x l x s E-1	0.25
Max. compression when idle, N2		2 x 10 E8
Ultimate pressure with two-stage oil-sealed rotary vane vacuum pump TRIVAC D 2,5 E	mbar	< 2 x 10 E-10
Max. fore-line pressure for N2	mbar	1 x 10 E-1
Recommended fore-vacuum pump, two-stage oil-sealed rotary vane vacuum pump	TRIVAC	D 2,5 E
Run-up time to 95% of nominal speed	min	2
Cooling water connection (hose nozzles)(for Part No. 854 08)	mm (in.)	10 (0.39)
Cooling method		Convection
Weight, approx.	kg (lbs)	2.0 (4.4)
Max. power consumption / ultimate pressure	W	45 / 15
Interface		Without

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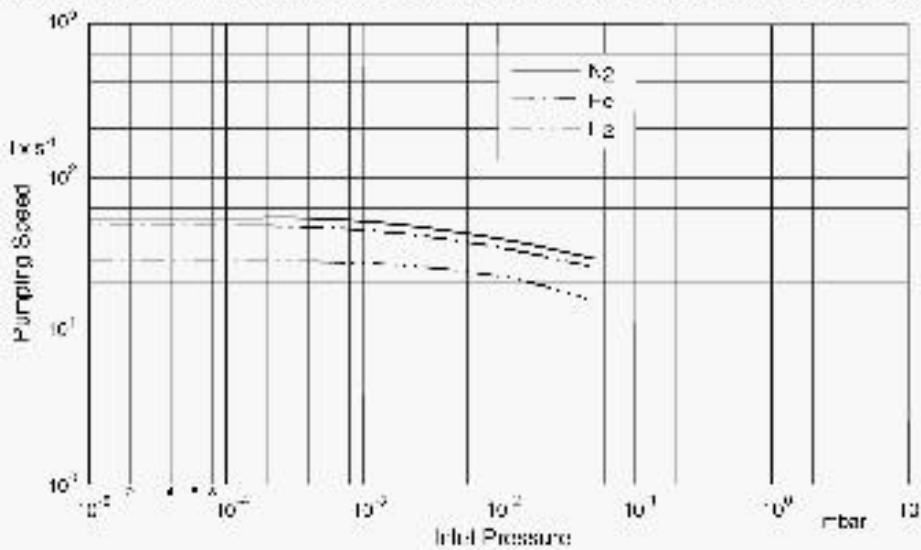
*) for continuous operation when water-cooled		
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Illustrations

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



DN		a	b	d	h	h <sub>1</sub>	h <sub>2</sub>
40 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
63 CF	mm	54.5	55	93	178	71.5	119
	in.	2.15	2.17	3.66	7.01	2.81	4.69

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