

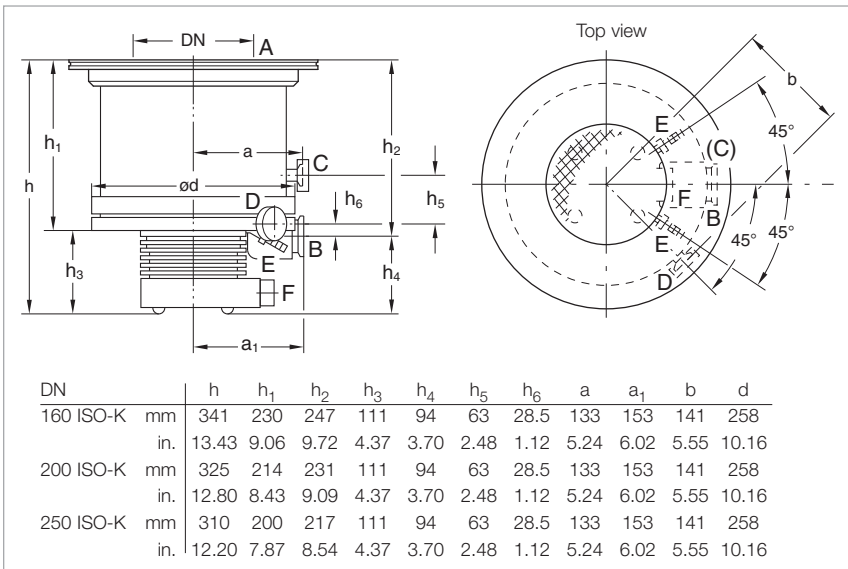
Mechanical Rotor Suspension without Compound-Stage

TURBOVAC 1100 C ClassicLine



Typical Applications

- Data storage
- Flat panel displays
- Optical coating
- Large area coating
- Load locks and transfer chambers



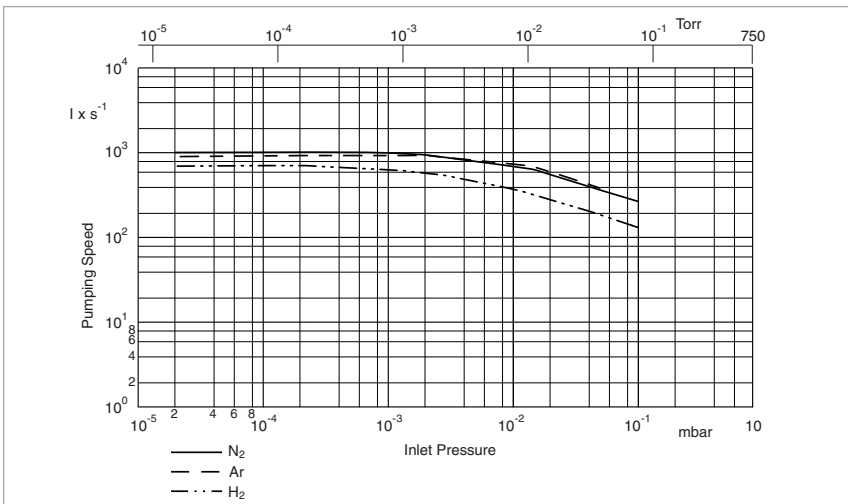
Dimensional drawing for the TURBOVAC 1100 C

Technical Features

- Robust rotor design
- Installation in any orientation
- Highest pumping speed and highest throughput
- Bearing temperature measurement through the TURBO.DRIVE TD 20 classic
- Oil-free pump for generating clean high and ultrahigh vacuum conditions
- Seal gas connection
- Venting connection

Advantages to the User

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



Pumping speed as a function of the inlet pressure (TURBOVAC 1100 C with flange DN 250)

Technical Data

TURBOVAC 1100 C

Inlet flange	DN	160 ISO-K	200 ISO-K	250 ISO-K
Pumping speed				
N ₂	l x s ⁻¹	710	830	1050
Ar	l x s ⁻¹	-	760	980
He	l x s ⁻¹	-	750	850
H ₂	l x s ⁻¹	-	600	630
Max. gas throughput				
N ₂	mbar x l x s ⁻¹	6.5	6.5	6.5
Ar	mbar x l x s ⁻¹	6.5	6.5	6.5
Compression ratio				
N ₂		1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵
Ar		1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵
H ₂		1 x 10 ⁴	1 x 10 ⁴	1 x 10 ⁴
Ultimate pressure				
	mbar (Torr)	< 3 x 10 ⁻¹⁰ (< 2.2 x 10 ⁻¹⁰)	< 3 x 10 ⁻¹⁰ (< 2.2 x 10 ⁻¹⁰)	< 3 x 10 ⁻¹⁰ (< 2.2 x 10 ⁻¹⁰)
Max. foreline pressure for N₂				
	mbar (Torr)	0.1 (0.075)	0.1 (0.075)	0.1 (0.075)
Recommended forevacuum pump				
		TRIVAC D 65 B / SCROLLVAC SC 15/30 D	TRIVAC D 65 B / SCROLLVAC SC 15/30 D	TRIVAC D 65 B / SCROLLVAC SC 15/30 D
Run-up time				
at 95% of nominal speed	min	9	9	9
Purge / vent port				
	DN	10 KF	10 KF	10 KF
Cooling water connection				
(hose nozzles)	mm (in.)	10 (0.39)	10 (0.39)	10 (0.39)
Weight, approx.				
	kg (lbs)	22 (48)	22 (48)	22 (48)
Supply voltage				
	V AC	42	42	42
Max. power consumption				
	VA	400	400	400

Technical Data

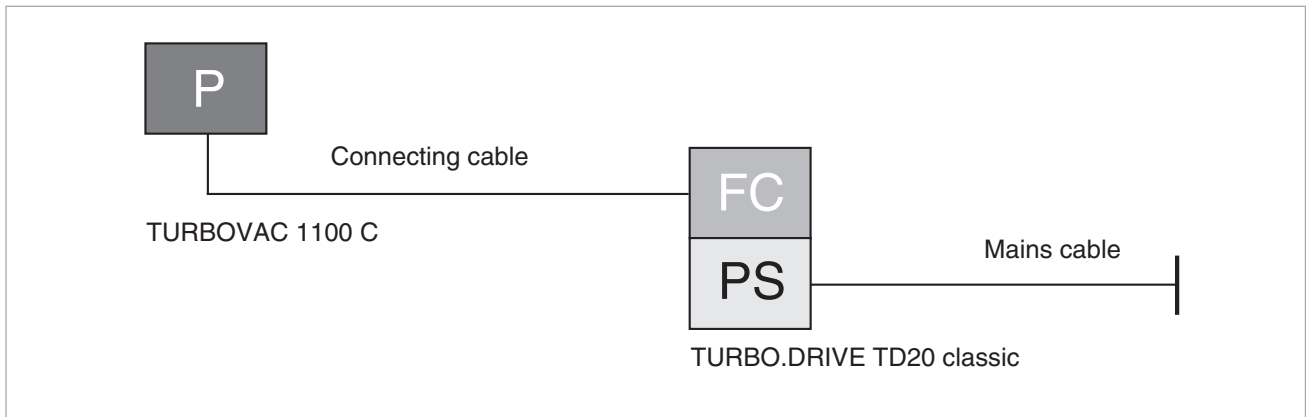
TURBO.DRIVE TD 20 *classic*

Mains connection, 50 - 60 Hz; selectable	V	100 to 240 (-15 % / +10 %)
Max. output voltage	V	3 x 47
Overload current limit	A	5
Permissible ambient temperature	°C (°F)	0 to +45 (+32 to +113)
Protection class	IP	20
Dimensions (W x H x D)	mm (in.)	213 x 128 x 315 (1/2 19", 3 HU) 8.39 x 5.04 x 12.40 (1/2 19", 3 HU)
Weight, approx.	kg (lbs)	4 (8.8)

Ordering Information

TURBOVAC 1100 C

TURBOVAC 1100 C without Compound Stage	P	Part No.		
DN 160 ISO-K / DN 63 ISO-K, water-cooled DN 200 ISO-K / DN 63 ISO-K, water-cooled DN 250 ISO-K / DN 63 ISO-K, water-cooled		800150V0030 800150V0031 800150V0032		
Mandatory Accessories		FC	PS	
TURBO.DRIVE TD 20 <i>classic</i> without interface with RS 232 C interface with RS 485 C interface with Profibus with 25 pol I/O		800075V0001 800075V0002 800075V0004 800075V0003 800075V0005		
Connecting cable TURBOVAC - frequency converter 3 m (10.5 ft) 5 m (17.5 ft) 10 m (35.0 ft) 20 m (70.0 ft) 50 m (175.0 ft) 60 m (210.0 ft) 80 m (280.0 ft) 140 m (490.0 ft)		857 65 857 66 857 67 857 68 800152V0008 800152V0007 800152V0080 800152V0140		
Mains cable 3 m (10.5 ft) EURO plug UK plug US plug 5-15 P (220 V AC) 2 m (7.5 ft) US plug 115 V AC		800102V0002 800102V0003 800102V1002 992 76 513		
Forevacuum pump TRIVAC D 65 B 3 phase motor; 230/400 V, 50 Hz / 250/440 V, 60 Hz 3 phase motor; 230/346 V, 50 Hz / 208/360 V, 60 Hz		112 96 113 57		
SCROLLVAC SC 30 D 1 phase motor; 200-230 V, 50/60 Hz 1 phase motor; 100-115 V, 50/60 Hz 3 phase motor; 380-415 V, 50 Hz / 200-230 V, 460 V, 60 Hz		133 002 133 102 133 004		
For further types, see our Full Line Catalog				



Ordering Information

TURBOVAC 1100 C

Accessories, optional	Part No.
Vibration absorber DN 160 ISO-K	500 073
Solenoid venting valve, with gas admission filter, normally closed 24 V DC, DN 16 KF	800120V0011
Power failure venting valve, with gas admission filter, normally open 24 V DC, DN 16 KF	800120V0021
Purge gas and venting valve Gas flow at 1 bar $0.6 \text{ mbar} \times \text{l} \times \text{s}^{-1}$ (36 sccm), Pump connection DN 10 KF / gas connection G 1/4" 230 V AC 100-115 V AC 24 V DC	800152V0040 800152V0043 800152V0012
Gas filter to G 1/4-in. for purge gas and venting valve	800110V0012
Replacement filter	200 18 515
Included in the Delivery of the Pump	P
Inlet screen, centering ring with FPM sealing ring, outer ring	ISO-K
Inlet screen	CF
Centering ring with O-ring, clamping ring	Foreline Flange
Pivoted threaded fittings to replace the included hose nipples	Water Cooling