

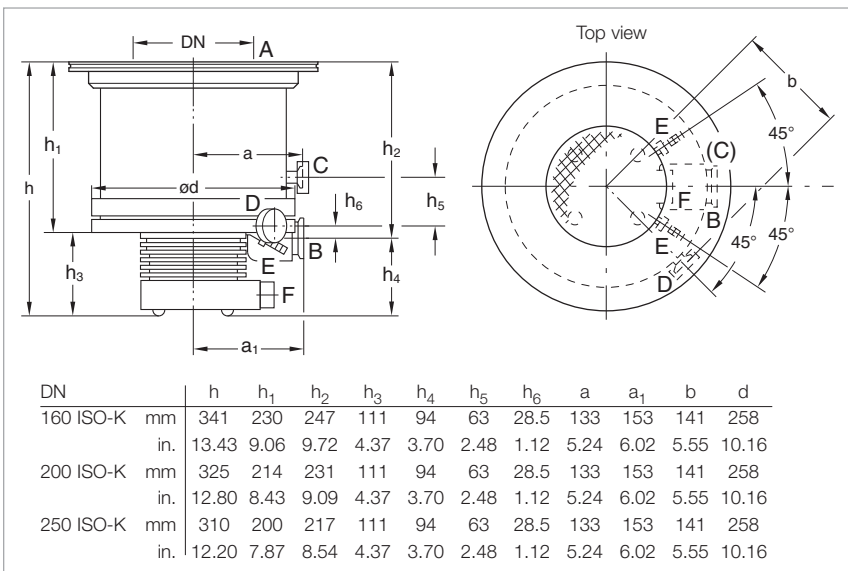
# Mechanical Rotor Suspension without Compound-Stage

## TURBOVAC 1100 C ClassicLine



### Typical Applications

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



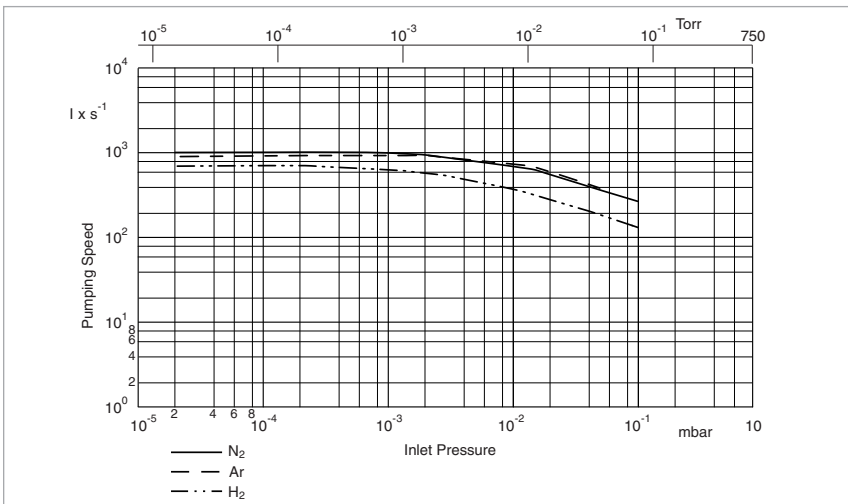
Dimensional drawing for the TURBOVAC 1100 C

### 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



## Technical Data

## TURBOVAC 1100 C

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

## Technical Data

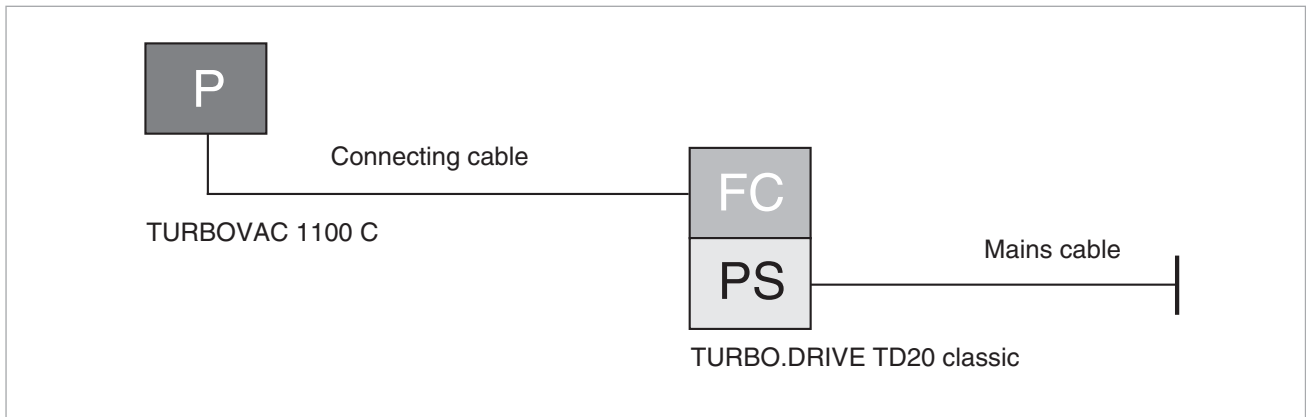
## TURBO.DRIVE TD 20 *classic*

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		<b>800150V0030</b> <b>800150V0031</b> <b>800150V0032</b>		
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		<b>800075V0001</b> <b>800075V0002</b> <b>800075V0004</b> <b>800075V0003</b> <b>800075V0005</b>		
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)		<b>857 65</b> <b>857 66</b> <b>857 67</b> <b>857 68</b> <b>800152V0008</b> <b>800152V0007</b> <b>800152V0080</b> <b>800152V0140</b>		
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		<b>800102V0002</b> <b>800102V0003</b> <b>800102V1002</b>  <b>992 76 513</b>		
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		<b>112 96</b> <b>113 57</b>		
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		<b>133 002</b> <b>133 102</b> <b>133 004</b>		
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 $0.6 \text{ mbar} \times l \times \text{s}^{-1}$ (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
<b>Included in the Delivery of the Pump</b>	<b>P</b>
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