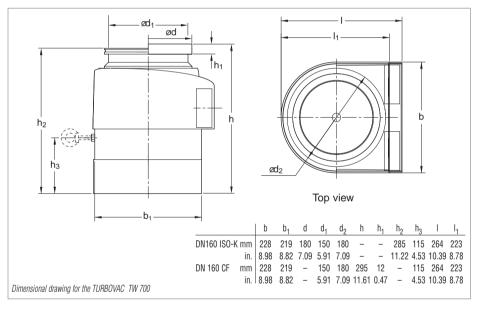
TURBOVAC TW 701



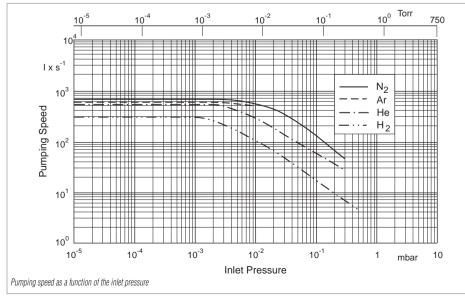
Typical Applications

- Mass spectrometers
- Data storage
- Flat panel displays
- ◆ R & D, e.g.
 - UHV systems
 - Particle accelerators
- Load locks and transfer chambers



Technical Features

- Integrated frequency converter
- Operation in any orientation
- Highest pumping speed and throughput for Nitrogen and Argon
- High foreline tolerance allows the use of downsized fore-vacuum pumps
- Highly effective air-cooling unit
- Oil-free pump for generating clean high- and ultrahigh-vacuum conditions



Advantages to the User

- Space-saving
- · Easy to integrate into complex vacuum systems
- High productivity
- Low operating costs
- Highly reliable operation

Technical Data		TURBOVAC TW 701			
Inlet flange	DN	160 ISO-K	160 CF		
Pumping speed					
N_2	I x s ⁻¹	680			
Ar	I x s ⁻¹	600			
He	x s ⁻¹ x s ⁻¹	530			
H ₂	1 X S .	330			
Max. gas throughput	mhory Ly a-1	-11			
N ₂ Ar	mbar x I x s ⁻¹ mbar x I x s ⁻¹	12 5 (water cooled)			
He	mbar x l x s ⁻¹	7 (water 6001eu)			
Н ₂	mbar x l x s ⁻¹	2.5			
Compression ratio					
N ₂		8 x 10 ⁸			
Ar		1 x 10 ⁸			
He		1 x 10 ⁶			
H ₂		2 x 10 ⁴			
Ultimate pressure	mbar (Torr)	< 5.0 x 10 ⁻⁹ (< 3.75 x 10 ⁻⁹)	< 1.5 x 10 ⁻¹⁰ (< 1.1 x 10 ⁻¹⁰)		
Max. foreline pressure for N ₂	mbar (Torr)	14 (10.5)			
Recommended fore-vacuum pump		TRIVAC D 65 B, EcoDry M15, DIVAC 4.8 VT			
Run-up time to 95% speed	min	≈ 5			
Purge port	DN	16 KF			
Cooling water connections		2x G 1/8" (internal threads)			
Weight, approx.	kg (lbs)	19 (42)			
Supply voltage, nominal	V DC	59			
Max. power consumption	W	500			

	Ordering Ir	TURBOVAC TW 701		
Inlet flange	Foreline flange DN 25 KF	Cooling method Air-cooled Water-cooled Air-cooled Water-cooled Air-cooled Water-cooled	Interface RS 232 C RS 232 C RS 485 C RS 485 C RS 485 C RS 485 C RS 232 C	Part No. 800051V0021 800051V0025 800051V0024 800051V0023 800051V0027 800051V0026 800051V0022
Power supply TURBO.CONTRO	L 700			see chapter "Turbomolecular Pumps with Mechanical Rotor Suspension" para. "Electronic Frequency Converter"
Accessories, opt	ional			
Inlet screen DN 160 ISO-K DN 160 CF				200 00 307 200 17 247
Flange heater 160 CF 230 V AC 110 V AC				854 37 854 38
Vibration absorber DN 160 ISO-K DN 160 CF				500 073 500 072
OEM power supply, 59 V DC				864 45
59 V DC cable 3 m (10.5 ft) 5 m (17.5 ft) 10 m (35 ft) 20 m (70 ft)				200 12 729 200 12 730 200 12 731 200 15 064
Plug with integrated START/ST		152 48		
	4 V DC, 0.6 mbar x I x s ⁻¹ = 36	121 33		
Accessories for RS 232 C and		see chapter "Turbomolecular Pumps", para. "Accessories"		
Accessories, for Adaptor G (BPS) 1/8" – G (BPS Gasket Adaptor G (BPS) 1/8" – 10 mm Gasket Adaptor G (BPS) 1/8" – NPT 1/6 Gasket	(0.39 in.) hose nozzle	10 n		200 91 671 (2x required) 224 01 207 (2x required) 200 18 366 (2x required) 230 02 106 (2x required) 200 12 742 (2x required) 238 20 110 (2x required)

Adapts German threads of water cooling to a more common Englisch thread. The Part Number is for one each, but two are used for almost all installations