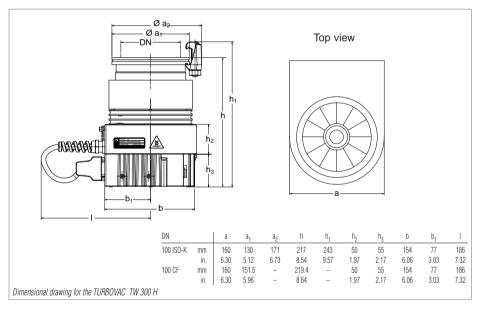
TURBOVAC TW 300 H



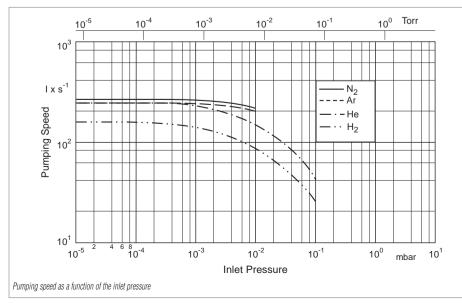
Typical Applications

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



Technical Features

- Integrated or external frequency converter
- Compact design
- Operation in any orientation
- High pumping speed and compression for light gases
- 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 foreline tolerance allows the use of downsized fore-vacuum pumps
- Low operating costs

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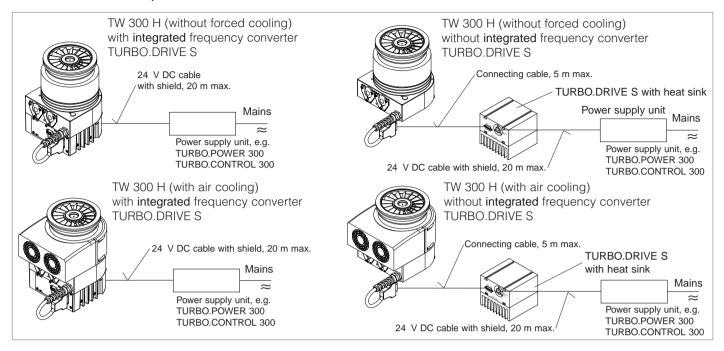
Technical Data		TURBOVAC TW 300 H		
Inlet flange	DN	O-ring sealed 100 ISO-K	Metal sealed 100 CF	
Pump housing		Aluminum	Stainless stel	
Ar I H ₂ I	x s ⁻¹ x s ⁻¹ x s ⁻¹ x s ⁻¹	240 / 240 240 / 240 160 / 140 240 / 230		
Max. gas throughput *) at 10 ⁻¹ mbar N2 at 2 x 10 ⁻² mbar mbar x I Ar at 1 x 10 ⁻² mbar mbar x I H2 at 1 x 10 ⁻¹ mbar mbar x I He at 1 x 10 ⁻¹ mbar mbar x I	x s ⁻¹ x s ⁻¹			
Max. compression when idle N ₂ Ar H ₂ He		5,5 x 10 ⁸ at 8 mbar 1,5 x 10 ⁸ at 10 mbar 1,5 x 10 ⁴ at 0.4 mbar 4 x 10 ⁵ at 2 mbar	1 x 10 ¹⁰ at 6 mbar	
with dry compressing piston vacuum pump EcoDry M15	mbar mbar mbar	< 1 x 10 ⁻⁸ (< 0.75 x 10 ⁻⁸ Torr)	< 1 x 10 ⁻¹⁰ (< 0.75 x 10 ⁻¹⁰ Torr) < 2 x 10 ⁻¹⁰ (< 1.5 x 10 ⁻¹⁰ Torr) < 1 x 10 ⁻⁹ (< 0.75 x 10 ⁻⁹ Torr)	
Max. fore-line pressure for N ₂	mbar	12 (9 Torr)		
Recommended fore-vacuum pump two-stage oil-sealed rotary vane vacuum pump dry compressing piston vacuum pump diaphragm pump		TRIVAC D 2,5 E EcoDry M15 DIVAC 2,5 VT		
Run-up time to 95% of nominal speed	min	4		
Purge / vent port	DN	16 KF		
Cooling water connection (option)		2x G 1/8"		
Weight, approx. with / without frequency converter kg	(lbs)	6.8 / 6.0 (15 / 13.2)		
Operating voltage	V DC	24		
Max. power consumption Run up / ultimate presure	W	150 / 30		

 $^{^{\}star)}$ for continuous operation when water-cooled

Note: TURBOVAC TW 250 S available for specific applications. Please consult factory

	Ordering In	formation		TURBOVAC TW 300 H
TW 300 H with i	ntegrated frequenc	y converter TURBO.	DRIVE S	Part No.
Inlet flange	Foreline flange	Cooling method	Interface	
DN 100 ISO-K	DN 16 KF	Convection	RS 485 C	800012V0007
DN 100 ISO-K	DN 16 KF	Air-cooled	RS 485 C	800012V0009
DN 100 ISO-K	DN 16 KF	Air-cooled	RS 232 C	800012V0013
DN 100 ISO-K	DN 16 KF	Water-cooled	RS 485 C	800012V0011
DN 100 CF	DN 16 KF	Convection	RS 485 C	800012V0008
DN 100 CF	DN 16 KF	Air-cooled	RS 485 C	800012V0010
DN 100 CF	DN 16 KF	Air-cooled	RS 232 C	800012V0014
DN 100 CF	DN 16 KF	Water-cooled	RS 485 C	800012V0012
TW 300 H withou	ut frequency conve	rter TURBO.DRIVE S	}	
Inlet flange	Foreline flange	Cooling method	Interface	
DN 100 ISO-K	DN 16 KF	Convection	_	800012V0001
DN 100 ISO-K	DN 16 KF	Air-cooled	_	800012V0003
DN 100 ISO-K	DN 16 KF	Water-cooled	_	800012V0005
DN 100 CF	DN 16 KF	Convection	_	800012V0002
DN 100 CF	DN 16 KF	Air-cooled	_	800012V0004
DN 100 CF	DN 16 KF	Water-cooled	_	800012V0006
	nverter TURBO.DRIVE S with heat s nverter TURBO.DRIVE S with heat s RIVE S - pump)			800070V0006 800070V0005 152 47 864 40 864 50
	cessary for all pum	ıps		004 30
START/STOP switch for manual opertion of the turbomolecular pump				152 48
Power supplies Turbo.Power 300 Turbo.Control 300				800100V0002 800100V0001
Accessories, op	tional			
Water cooling unit with G 1/8 including 2 hose nozzles 4 gaskets, 2 blank-off pl	s G 1/8", OD 10 mm for water hose	,		800135V0002
Air cooling unit				800 000 249
Flange heater 100 CF, 230 V, 50 Hz 100 CF, 110 V, 60 Hz				854 27 854 28
Splinter guard DN 100 ISO-K, coarse (3,2 x 3,2 mm) fine (1,6 x 1,6 mm)	/CF			200 18 692 200 18 340
Vibration absorber DN 100 ISO-K DN 100 CF				800131V0100 500 071
Accessories for serial interfa	ces RS 232 C and RS 485 C			see chapter "Turbomolecular Pumps", para. "Accessories"

The modular concept



Notes		