

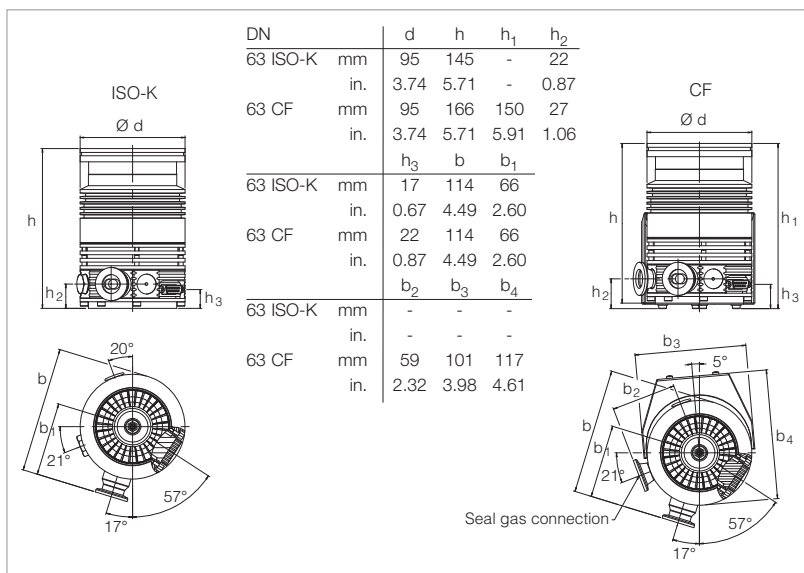
Mechanical Rotor Suspension with Frequency Converter for Attaching or Separate with or without Compound Stage

TURBOVAC SL 80 / SL 80 H / SL 80 C



Typical Applications

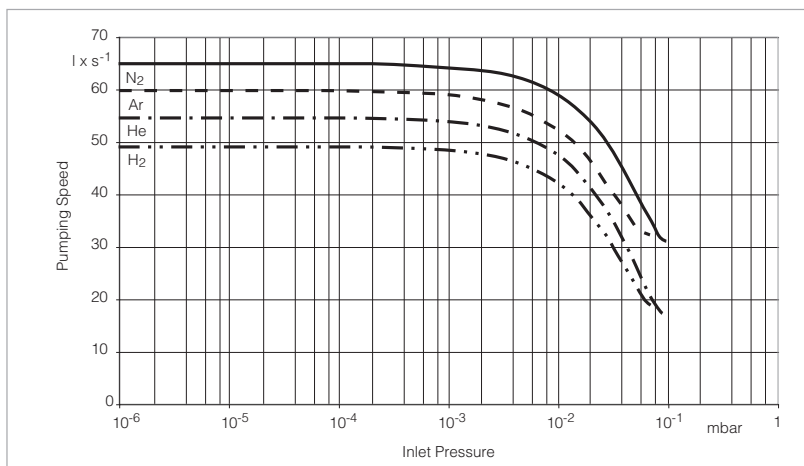
- Helium leak detectors
- Mass spectrometers (gas chromatography GC-MS), liquid chromatography (LC-MS), residual gas analysis, mobile analytical systems, etc.)
- Electron beam microscopy
- XHV-/UHV systems
- Transfer chambers



Dimensional drawing for the TURBOVAC SL 80: attachment examples

Technical Features

- Oil-free pump
- High pressure foreline tolerance
- Excellent resistance to vibration due to proven mechanical bearings
- Efficient convection cooling due to a large number of cooling fins
- Purge gas/venting connection
- Installation in any orientation
- Flexible attachment of the frequency converter to the pump
- Small footprint
- Delayed venting through the frequency converter TURBO.DRIVE TD 400 (optional)
- Selection of interfaces, USB, RS 232 C, RS 485 C, Profibus



Pumping speed as a function of the inlet pressure

Advantages to the User

- Easy to integrate into complex vacuum systems
- Space-saving
- Prepared for pumping of slightly corrosive gases owing to the seal gas connection
- High reliability, MTTF over 200,000 hours
- Matching accessories (fan, water cooling, seal gas/venting valves, power failure venting valves, flange heaters, different cable lengths etc.)
- High reliability due to self-monitoring

Technical Data

TURBOVAC

		SL 80			SL 80 H		SL 80 C
Connection							
Inlet	DN	40 ISO-KF	63 ISO-K	63 CF	63 ISO-K	63 CF	63 ISO-K
Outlet	DN		16 ISO-KF		16 ISO-KF		16 ISO-KF
Pumping speed							
N ₂	l x s ⁻¹	40	65	65	65		70
Ar	l x s ⁻¹	34	60	60	60		65
He	l x s ⁻¹	44	55	55	55		50
H ₂	l x s ⁻¹	40	49	49	49		45
Gas throughput							
N ₂	mbar · l x s ⁻¹		2.0		0.9		3.5
Ar	mbar · l x s ⁻¹		1.6		0.8		3.5
He	mbar · l x s ⁻¹		1.2		1.5		2.0
H ₂	mbar · l x s ⁻¹		0.5		0.6		1.0
Compression ratio							
N ₂			> 1 x 10 ¹¹		> 1 x 10 ¹¹		2 x 10 ⁶
Ar			> 1 x 10 ¹¹		> 1 x 10 ¹¹		2 x 10 ⁶
He			2 x 10 ⁶		6 x 10 ⁶		6 x 10 ²
H ₂			4 x 10 ⁴		8 x 10 ⁴		2 x 10 ²
Ultimate pressure	mbar Torr)		< 2 x 10 ⁻¹⁰ ($< 1.5 \times 10^{-10}$)		< 2 x 10 ⁻¹⁰ ($< 1.5 \times 10^{-10}$)		< 5 x 10 ⁻⁸ ($< 4.0 \times 10^{-8}$)
Max. foreline pressure for N ₂	mbar (Torr)		16 (12)		16 (12)		0.35 (0.26)
Recommended forevacuum pump			TRIVAC D 2,5 E / D 4 B SCROLLVAC SC 5 D / 15 D DIVAC 1.4 HV3		TRIVAC D 2,5 E / D 4 B SCROLLVAC SC 5 D / 15 D DIVAC 1.4 HV3		TRIVAC D 2,5 E / D 4 B SCROLLVAC SC 5 D / 15 D –
Nominal rotation speed	min ⁻¹ (rpm)		72 000		72 000		72 000
Run-up time, approx.	min		1.5		1.5		1.5
Max. power consumption	W		120		120		120
Power consumption at ultimate pressure	W		17		17		17
Admissible ambient temperature	°C (°F)		+15 to +45 (+50 to +113)		+15 to +45 (+50 to +113)		+15 to +45 (+50 to +113)
Cooling							
standard			Convection		Convection		Convection
optional			Water / Air		Water / Air		Water / Air
Cooling water connection			G 1/8", inside thread / 8 mm hose nozzle		G 1/8", inside thread / 8 mm hose nozzle		G 1/8", inside thread / 8 mm hose nozzle
Cooling water consumption	l x h ⁻¹		15 to 60		15 to 60		15 to 60
Permissible cooling water pressure	bar		2 to 7		2 to 7		2 to 7
Permissible cooling water temperature	°C (°F)		10 to 40 (50 to 104)		10 to 40 (50 to 104)		10 to 40 (50 to 104)
Weight, approx.	kg (lbs)		1.8 (3.97)	1.9 (4.19)	3.1 (6.84)	1.9 (4.19)	3.1 (6.84)

High
Vacuum Pumps

Technical Data





TURBO.DRIVE TD 400

Mains connection	V DC	24
Max. current consumption	A	8
Max. power consumption	W	190
Max. output voltage	V	3 x 24
Interface		USB, RS 232 C, RS 485 C or Profibus
Protection rating	IP	20
Admissible ambient temperature	°C (°F)	+5 to +45 (+41 to +113)
Dimensions (W x H x D)	mm (in.)	100 x 90 x 100 (3.9 x 3.5 x 3.9)
Weight, approx.	kg (lbs)	0.7 (1.6)

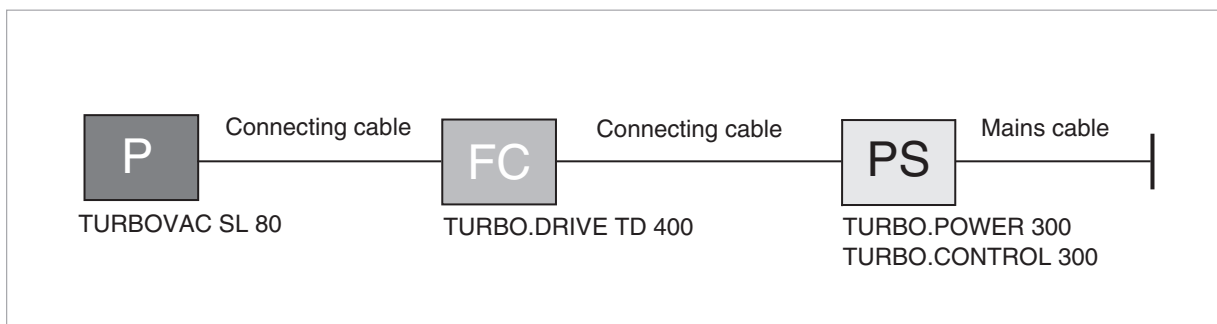
Ordering Information

TURBOVAC

SL 80 / SL 80 H / SL 80 C

TURBOVAC SL 80	P	Part No.	
with compound stage DN 40 ISO-KF DN 63 ISO-K / DN 16 ISO-KF DN 63 ISO-K / DN 16 ISO-KF (SL 80 H) DN 63 CF / DN 16 ISO-KF DN 63 CF / DN 16 ISO-KF (SL 80 H) without compound stage DN 63 ISO-K / DN 16 ISO-KF (SL 80 C)		800002V3004 800002V3001 800002V3005 800002V3002 800002V3006 800002V3008	
Mandatory Accessories	P	FC	PS
Electronic frequency converter TURBO.DRIVE TD 400 with USB interface with RS 232 C interface with RS 485 C interface with Profibus		800073V0008 800073V0002 800073V0003 800073V0004	
Connecting cable pump - frequency converter 0.2 m (0.7 ft) 0.3 m (1.1 ft) 0.4 m (1.4 ft) 0.5 m (1.75 ft) 1.0 m (3.5 ft) 2.5 m (8.75 ft) 3.0 m (10.5 ft) 5.0 m (17.5 ft) 10.0 m (35.0 ft)		800152V0021 800152V0023 800152V0022 800152V0050 152 47 864 49 864 40 864 50 800080V10000	
Power supply and control unit TURBO.CONTROL 300		800100V0001	
24 V connecting cable power supply - TURBO.CONTROL 300 1 m (3.5 ft) 3 m (10.5 ft) 5 m (17.5 ft) 10 m (35.0 ft) 20 m (70.0 ft)		800091V0100 800091V0300 800091V0500 800091V1000 800091V2000	
Power supply TURBO.POWER 300		800100V0002	
24 V connecting cable power supply - TURBO.POWER 300 1 m (3.5 ft) 3 m (10.5 ft) 5 m (17.5 ft) 10 m (35.0 ft) 20 m (70.0 ft)		800094V0100 800094V0300 800094V0500 800094V1000 800094V2000	
Mains cable 3 m (10.5 ft) - TURBO.CONTROL 300 / TURBO.POWER 300 with EURO plug with UK plug with US plug 5-15 P with US plug 115 V AC, 2 m (7.5 ft)		800102V0002 800102V0003 800102V1002 992 76 513	
START/STOP switch for manual operation of the turbomolecular pump		152 48	
Forevacuum pump TRIVAC D 2,5 E 220-240 V, 50 Hz; 230 V, 60 Hz; Schuko plug, EURO version 110-120 V / 220-240 V, 50/60 Hz, without plug, (world version)		140 000 140 001	
TRIVAC D 4 B 1 phase EURO motor; 230 V, 50 Hz 1 phase dual voltage motor; 100-120 V / 200-240 V; 50/60 Hz		112 45 140 081 ¹⁾	
DIVAC 1.4 HV3 90-230 V, 50/60 Hz		127 90 V	
SCROLLVAC SC 5 D 1 phase motor; 200-230 V, 50/60 Hz 1 phase motor; 100-115 V, 50/60 Hz		133 000 133 100	
SCROLLVAC SC 15 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		133 001 133 101 133 003	
For further types, see Catalog Parts "Oil Sealed Vacuum Pumps" and "Dry Compressing Vacuum Pumps"			

¹⁾ The mains cord (Part No. 200 81 091) must be ordered additionally



Ordering Information

TURBOVAC SL 80 / SL 80 H / SL 80 C

Accessories, optional	P	FC	PS	Part No.
Mounting kit TD 400 for SL 80, incl. 0.2 m (0.7 ft.) long connecting cable pump - frequency converter for installing the frequency converter beside the pump for installing the frequency converter beneath the pump (not for 800073V0007)				800110V0005 800110V0008
Water cooling unit with 2x G 1/8" connections, including 2 hose nozzles G 1/8" 8 mm (0.3 in.) OD, 2 gaskets (copper) 10 x 14 x 1 mm (0.4 x 0.6 x 0.04 in.) and hose clamps				800135V0001
Air cooling unit				800136V0001
Flange heater DN 63 CF, 230 V, 50 Hz DN 63 CF, 115 V, 60 Hz				854 04 854 07
Inlet screen DN 40 ISO-KF DN 63 ISO-K (coarse) DN 63 CF (coarse)				E 200 17 169 E 200 17 170 E 200 17 171
Fine filter with centering ring DN 63 ISO-K				887 20
Vibration absorber DN 63 ISO-K DN 63 CF				800131V0063 500 070
Pump connection adapter DN 10 ISO-KF / pump connection M 8 (incl. O-ring, filter and clamping ring)				800110V0011
Purge gas and venting valve gas flow at 1 bar 0.4 mbar x l x s ⁻¹ (24 sccm), pump connection DN 10 ISO-KF / gas connection G 1/4" 230 V AC 100 - 115 V AC 24 V DC				800152V0014 800152V0042 800152V0013
Gas filter to G 1/4" for purge gas and venting valve				800110V0012
Replacement filter				E 200 18 515
Power failure venting valve, normally open 24 V DC, DN 16 ISO-KF				800120V0021
Power failure venting valve, normally open 24 V DC, DN 10 ISO-KF 230 V AC / 50/60 Hz, DN 10 ISO-KF				174 46 174 26
Hat rail adaptor as mounting aid				800110V0003
Fin type cooler				800110V0001

High Vacuum Pumps

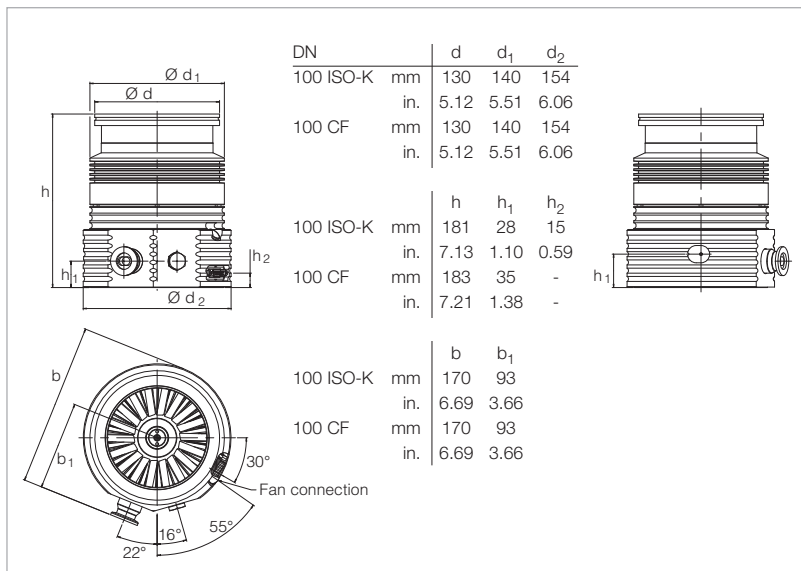
Mechanical Rotor Suspension with Frequency Converter for Attaching or Separate with Compound Stage

TURBOVAC SL 300



Typical Applications

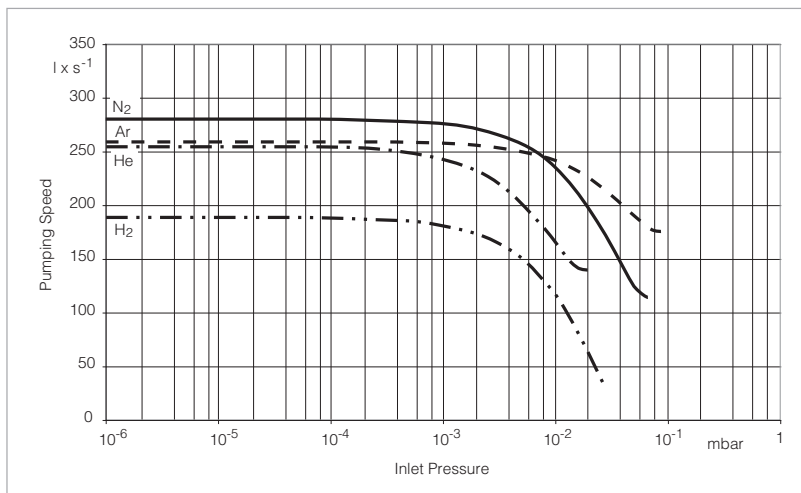
- Particle accelerators
- Mass spectrometers (gas chromatography GC-MS), liquid chromatography (LC-MS), time of flight (TOF-MS), residual gas analysis, etc.)
- Electron beam microscopy
- Coating technology
- XHV-/UHV systems
- Transfer chambers



Dimensional drawing for the TURBOVAC SL 300

Technical Features

- Oil-free pump
- High pressure foreline tolerance
- Excellent resistance to vibration due to proven mechanical bearings
- Efficient convection cooling due to a large number of cooling fins
- Purge gas/venting connection
- Installation in any orientation
- Flexible attachment of the frequency converter to the pump
- Small footprint
- Delayed venting through the frequency converter TURBO.DRIVE TD 400 (optional)
- Selection of interfaces, USB, RS 232 C, RS 485 C, Profibus



Pumping speed as a function of the inlet pressure

Advantages to the User

- Easy to integrate into complex vacuum systems
- Space-saving
- Prepared for pumping of slightly corrosive gases owing to the seal gas connection
- High reliability, MTTF over 200,000 hours
- Matching accessories (fan, water cooling, seal gas/venting valves, power failure venting valves, flange heaters, different cable lengths etc.)
- High reliability due to self-monitoring

Technical Data

TURBOVAC SL 300

Connection			
Inlet	DN	100 ISO-K	100 CF
Outlet	DN	16 ISO-KF	16 ISO-KF
Pumping speed			
N ₂	l x s ⁻¹	270	270
Ar	l x s ⁻¹	260	260
He	l x s ⁻¹	255	255
H ₂	l x s ⁻¹	190	190
Gas throughput			
N ₂	mbar · l x s ⁻¹	2.9	2.9
Ar	mbar · l x s ⁻¹	2.0	2.0
He	mbar · l x s ⁻¹	1.9	1.9
H ₂	mbar · l x s ⁻¹	0.9	1.9
Compression ratio			
N ₂		> 1 x 10 ¹¹	> 1 x 10 ¹¹
Ar		> 1 x 10 ¹¹	> 1 x 10 ¹¹
He		1 x 10 ⁷	1 x 10 ⁷
H ₂		2 x 10 ⁵	2 x 10 ⁵
Ultimate pressure	mbar (Torr)	< 1 x 10 ⁻¹⁰ (< 7.5 x 10 ⁻¹¹)	< 1 x 10 ⁻¹⁰ (< 7.5 x 10 ⁻¹¹)
Max. foreline pressure for N ₂	mbar (Torr)	8 (6)	8 (6)
Recommended forevacuum pump		TRIVAC D 2,5 E / TRIVAC D 4 B SCROLLVAC SC 5 /15 D DIVAC 3.8 HV3	TRIVAC D 2,5 E / TRIVAC D 4 B SCROLLVAC SC 5 /15 D DIVAC 3.8 HV3
Nominal rotation speed	min ⁻¹ (rpm)	60 000	60 000
Run-up time, approx.	min	4	4
Max. power consumption	W	115	115
Power consumption at ultimate pressure	W	18	18
Admissible ambient temperature	°C (°F)	+15 to +45 (+50 to +113)	+15 to +45 (+50 to +113)
Cooling			
standard		Convection	Convection
optional		Water / Air	Water / Air
Cooling water connection		G 1/8", inside thread / 8 mm hose nozzle	G 1/8", inside thread / 8 mm hose nozzle
Cooling water consumption	l x h ⁻¹	30 to 60	30 to 60
Permissible cooling water pressure	bar	3 to 7	3 to 7
Permissible cooling water temperature	°C (°F)	15 to 35 (59 to 95)	15 to 35 (59 to 95)
Weight	kg (lbs)	5.2 (11.5)	7.4 (16.3)

High Vacuum Pumps





Technical Data

TURBO.DRIVE TD 400

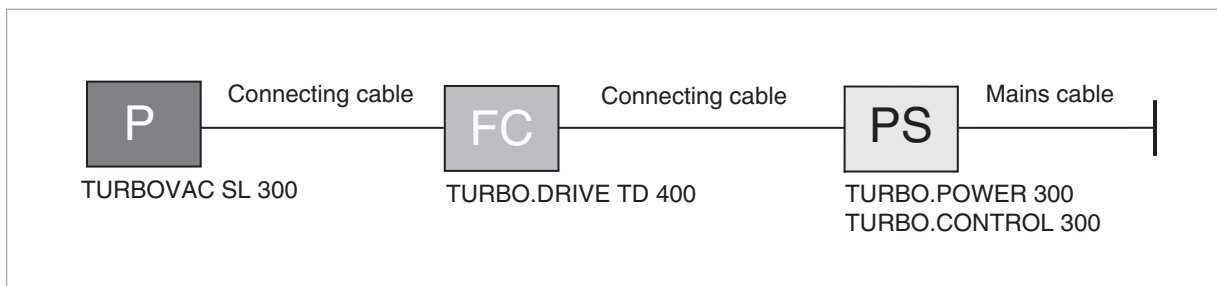
Mains connection	V DC	24
Max. current consumption	A	8
Max. power consumption	W	190
Max. output voltage	V	3 x 24
Interface		USB, RS 232 C, RS 485 C or Profibus
Protection rating	IP	20
Admissible ambient temperature	°C (°F)	+5 to +45 (+41 to +113)
Dimensions (W x H x D)	mm (in.)	100 x 90 x 100 (3.9 x 3.5 x 3.9)
Weight, approx.	kg (lbs)	0.7 (1.6)

Ordering Information

TURBOVAC SL 300

TURBOVAC SL 300 with Compound Stage	P	Part No.				
DN 100 ISO-K / DN 16 ISO-KF DN 100 CF / DN 16 ISO-KF		800170V3005 800170V3006				
Mandatory Accessories		P	FC	PS		
Electronic frequency converter TURBO.DRIVE TD 400 with USB interface with RS 232 C interface with RS 485 C interface with Profibus		800073V0008 800073V0002 800073V0003 800073V0004				
Connecting cable pump - frequency converter 0.2 m (0.7 ft) 0.3 m (1.1 ft) 0.4 m (1.4 ft) 0.5 m (1.75 ft) 1.0 m (3.5 ft) 2.5 m (8.75 ft) 3.0 m (10.5 ft) 5,0 m (17.5 ft) 10.0 m (35.0 ft)		800152V0021 800152V0023 800152V0022 800152V0050 152 47 864 49 864 40 864 50 800080V10000				
Power supply and control unit TURBO.CONTROL 300		800100V0001				
24 V connecting cable power supply - TURBO.CONTROL 300 1 m (3.5 ft) 3 m (10.5 ft) 5 m (17.5 ft) 10 m (35.0 ft) 20 m (70.0 ft)		800091V0100 800091V0300 800091V0500 800091V1000 800091V2000				
Power supply TURBO.POWER 300		800100V0002				
24 V connecting cable power supply - TURBO.POWER 300 1 m (3.5 ft) 3 m (10.5 ft) 5 m (17.5 ft) 10 m (35.0 ft) 20 m (70.0 ft)		800094V0100 800094V0300 800094V0500 800094V1000 800094V2000				
Mains cable 3 m (10.5 ft) - TURBO.CONTROL 300 / TURBO.POWER 300 with EURO plug with UK plug with US plug 5-15 P with US plug 115 V AC, 2 m (7.5 ft)		800102V0002 800102V0003 800102V1002 992 76 513				
START/STOP switch for manual operation of the turbomolecular pump		152 48				
Forevacuum pump TRIVAC D 2,5 E 220-240 V, 50 Hz; 230 V, 60 Hz; Schuko plug, EURO version 110-120 V / 220-240 V, 50/60 Hz, without plug, (world version)		140 000 140 001				
DIVAC 3.8 HV3 230 V, 50-60 Hz		127 95 V				
TRIVAC D 4 B 1 phase EURO motor; 230 V, 50 Hz 1 phase dual voltage motor; 100-120 V / 200-240 V; 50/60 Hz		112 45 140 081 ¹⁾				
SCROLLVAC SC 5 D 1 phase motor; 200-230 V, 50/60 Hz 1 phase motor; 100-115 V, 50/60 Hz		133 000 133 100				
SCROLLVAC SC 15 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		133 001 133 101 133 003				
For further types, see Catalog Parts "Oil Sealed Vacuum Pumps" and "Dry Compressing Vacuum Pumps"						

¹⁾ The mains cord (Part No. 200 81 091) must be ordered additionally



Ordering Information

TURBOVAC SL 300

Accessories, optional	P	FC	PS	Part No.
Mounting kit TD 400 for SL 300, incl. 0.2 m (0.7 ft.) long connecting cable pump - frequency converter for installing the frequency converter beside the pump for installing the frequency converter beneath the pump (not for 800073V0007)				800110V0006
				800110V0009
Water cooling unit with 2x G 1/8" connections, including 2 hose nozzles G 1/8" 8 mm (0.3 in.) OD, 2 gaskets (copper) 10 x 14 x 1 mm (0.4 x 0.6 x 0.04 in.) and hose clamps				800135V0002
Air cooling unit				800136V0002
Flange heater DN 100 CF, 230 V, 50 Hz DN 100 CF, 115 V, 60 Hz				854 27
				854 28
Inlet screen DN 100 ISO-K (coarse) DN 100 ISO-K (fine) DN 100 ISO-CF (coarse) DN 100 ISO-CF (fine)				800132V0101
				800132V0102
				20091514
				E20017195
Vibration absorber DN 100 ISO-K DN 100 CF				800131V0100
				500 071
Pump connection adapter DN 10 ISO-KF / pump connection M 8 (incl. O-ring, filter and clamping ring)				800110V0011
Purge gas and venting valve gas flow at 1 bar 0.2 mbar x l x s ⁻¹ (12 sccm), pump connection DN 10 ISO-KF / gas connection G 1/4" 230 V AC 100 - 115 V AC 24 V DC				800152V0019
				800152V0041
				113 50
Gas filter to G 1/4" for purge gas and venting valve				800110V0012
Replacement filter				E 200 18 515
Power failure venting valve, normally open 24 V DC, DN 16 ISO-KF				800120V0021
Power failure venting valve, normally open 24 V DC, DN 10 ISO-KF 230 V AC / 50/60 Hz, DN 10 ISO-KF				174 46
				174 26
Hat rail adaptor as mounting aid				800110V0003
Fin type cooler				800110V0001

High Vacuum Pumps

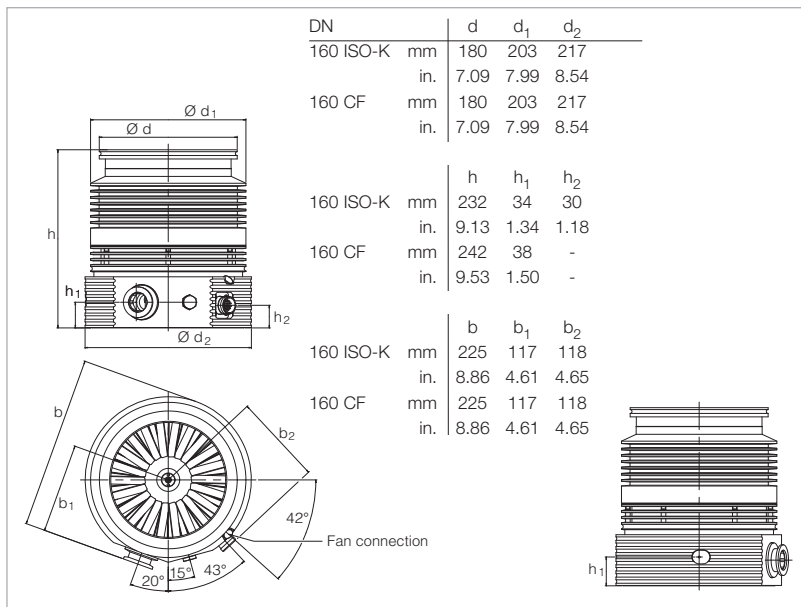
Mechanical Rotor Suspension with Frequency Converter for Attaching or Separate with Compound Stage

TURBOVAC SL 700



Typical Applications

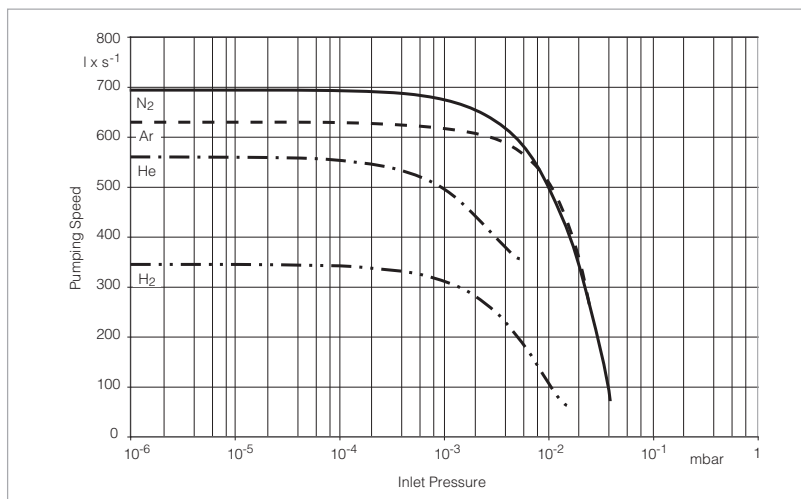
- Mass spectrometers (gas chromatography GC-MS), liquid chromatography (LC-MS), etc.
- Coating technology
- UHV systems
- Transfer chambers



Dimensional drawing for the TURBOVAC SL 700

Technical Features

- Highest pumping speed in the DN 160 flange category
- Oil-free pump
- Excellent resistance to vibration due to proven mechanical bearings
- Purge gas/venting connection
- Installation in any orientation
- Flexible attachment of the frequency converter to the pump
- Small footprint
- Selection of interfaces, USB, RS 232 C, RS 485 C, Profibus



Pumping speed as a function of the inlet pressure

Advantages to the User

- Easy to integrate into complex vacuum systems
- Space-saving
- Prepared for pumping of slightly corrosive gases owing to the seal gas connection
- High reliability, MTTF over 200,000 hours
- Matching accessories (fan, water cooling, seal gas/venting valves, power failure venting valves, flange heaters, different cable lengths etc.)
- High reliability due to self-monitoring

Technical Data

TURBOVAC SL 700

Connection			
Inlet	DN	160 ISO-K	160 CF
Outlet	DN	25 ISO-KF	25 ISO-KF
Pumping speed			
N ₂	l x s ⁻¹	690	690
Ar	l x s ⁻¹	630	630
He	l x s ⁻¹	580	580
H ₂	l x s ⁻¹	360	360
Gas throughput			
N ₂	mbar · l x s ⁻¹	5.6	5.6
Ar	mbar · l x s ⁻¹	4.6	4.6
He	mbar · l x s ⁻¹	2.0	2.0
H ₂	mbar · l x s ⁻¹	0.9	0.9
Compression ratio			
N ₂		> 1 x 10 ¹¹	> 1 x 10 ¹¹
Ar		> 11 x 10 ¹¹	> 11 x 10 ¹¹
He		1 x 10 ⁷	1 x 10 ⁷
H ₂		3 x 10 ⁵	3 x 10 ⁵
Ultimate pressure	mbar (Torr)	< 1 x 10 ⁻⁹ (< 7.5 x 10 ⁻¹⁰)	< 1 x 10 ⁻⁹ (< 7.5 x 10 ⁻¹⁰)
Max. foreline pressure for N ₂	mbar (Torr)	15.0 (11.3)	15.0 (11.3)
Recommended forevacuum pump		TRIVAC D 8 / 16 B SCROLLVAC SC 15 / 30 D	TRIVAC D 8 / 16 B SCROLLVAC SC 15 / 30 D
Nominal rotation speed	min ⁻¹ (rpm)	48 000	48 000
Run-up time, approx.	min	≈ 5	≈ 5
Max. power consumption	W	270	270
Power consumption at ultimate pressure	W	60	60
Admissible ambient temperature	°C (°F)	+15 to +45 (+59 to +113)	+15 to +45 (+59 to +113)
Cooling			
standard		Convection	Convection
optional		Water / Air	Water / Air
Cooling water connection		G 1/8", inside thread / 10 mm hose nozzle	G 1/8", inside thread / 10 mm hose nozzle
Cooling water consumption	l x h ⁻¹	20 to 90	20 to 90
Permissible cooling water pressure	bar	3 to 7	3 to 7
Permissible cooling water temperature	°C (°F)	15 to 35 (59 to 95)	15 to 35 (59 to 95)
Weight	kg (lbs)	13.9 (30.6)	17.3 (38.2)

High
Vacuum Pumps




Technical Data

TURBO.DRIVE TD 700

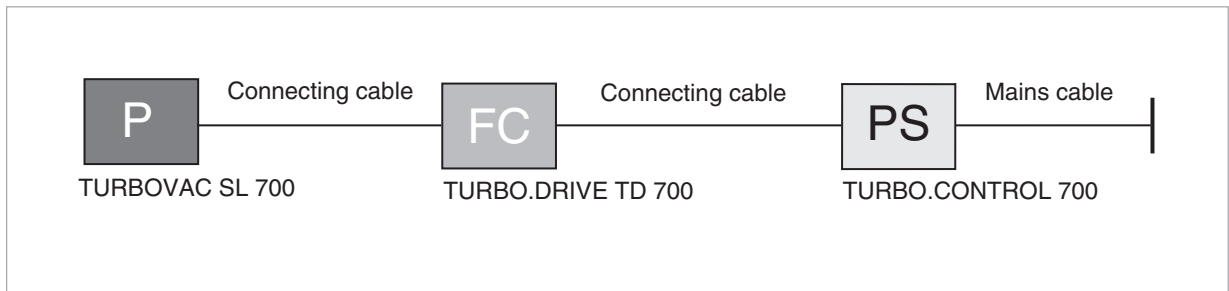
Mains connection	V DC	59
Max. current consumption	A	8
Max. power consumption	W	480
Max. output voltage	V	3 x 59
Interface		RS 232 C, RS 485 C or Profibus
Protection rating	IP	20
Admissible ambient temperature	°C (°F)	+10 to +45 (+50 to +113)
Dimensions (W x H x D)	mm (in.)	170 x 50 x 120.5 (6.7 x 2.0 x 4.7)
Weight, approx.	kg (lbs)	0.7 (1.6)

Ordering Information

TURBOVAC SL 700

TURBOVAC SL 700 with Compound Stage	P	Part No.	
DN 160 ISO-K / DN 25 ISO-KF DN 160 CF / DN 25 ISO-KF		800051V3001 800051V3002	
Mandatory Accessories			
Electronic frequency converter TURBO.DRIVE TD 700 with RS 232 C interface with RS 485 C interface with Profibus	P	800074V0001 800074V0003 800074V0004	
Connecting cable pump - frequency converter 0.4 m (1.4 ft) 1.0 m (3.5 ft) 2.5 m (8.75 ft) 3.0 m (10.5 ft) 5.0 m (17.5 ft) 10.0 m (35.0 ft)	FC	800080V0040 800084V0100 800080V0042 800084V0300 800084V0500 800084V1000	
Power supply and control unit TURBO.CONTROL 700	PS	800101V0001	
Connecting cable TURBO.DRIVE TD 700 - TURBO.CONTROL 700 1 m (3.5 ft) 3 m (10.5 ft) 5 m (17.5 ft) 10 m (35.0 ft) 20 m (70.0 ft)		800093V0100 800093V0300 800093V0500 800093V1000 800093V2000	
Mains cable 3 m (10.5 ft) - TURBO.CONTROL 300 / TURBO.POWER 300 with EURO plug with UK plug with US plug 5-15 P with US plug 115 V AC, 2 m (7.5 ft)		800102V0002 800102V0003 800102V1002 992 76 513	
Air cooling unit or Water cooling unit with 2 cooling coils includes 4x G 1/8" connections, including 4 hose nozzles G 1/8" 8 mm (0.3 in.) OD, 4 gaskets (copper) 10 x 14 x 1 mm (0.4 x 0.6 x 0.04 in.) and hose clamps		800136V0003 800135V0004	
START/STOP switch for manual operation of the turbomolecular pump		152 48	
Forevacuum pump TRIVAC D 8 B 1 phase EURO motor; 230 V, 50 Hz 1 phase dual voltage motor; 100-120 V / 200-240 V; 50/60 Hz		112 55 140 082 ¹⁾	
TRIVAC D 16 B 1 phase EURO motor 3 phase motor		112 65 112 66	
SCROLLVAC SC 15 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		133 001 133 101 133 003	
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 Catalog Parts "Oil Sealed Vacuum Pumps" and "Dry Compressing Vacuum Pumps"			

¹⁾ The mains cord (Part No. 200 81 091) must be ordered additionally



Ordering Information

TURBOVAC SL 700

Accessories, optional	P FC PS	Part No.
Mounting kit TD 700 for SL 700, incl. 0.2 m (0.7 ft.) long connecting cable pump - frequency converter for installing the frequency converter beside the pump for installing the frequency converter beneath the pump		800110V0007
		800110V0010
Flange heater DN 160 CF, 230 V, 50 Hz DN 100 CF, 115 V, 60 Hz		854 37
		854 38
Inlet screen DN 160 ISO-K DN 160 CF		200 00 307
		200 17 247
Vibration absorber DN 160 ISO-K DN 160 CF		500 073
		500 072
Pump connection adapter DN 10 ISO-KF / pump connection M 8 (incl. O-ring, filter and clamping ring)		800110V0011
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 ISO-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" for purge gas and venting valve		800110V0012
Replacement filter		E 200 18 515
Power failure venting valve, normally open 24 V DC, DN 16 ISO-KF		800120V0021
Power failure venting valve, normally open 24 V DC, DN 10 ISO-KF 230 V AC / 50/60 Hz, DN 10 ISO-KF		174 46
		174 26
Solenoid venting valve, normally closed 24 V DC, DN 16 ISO-KF		800120V0011