



Leybold TMP-340M, 340MC, 340MCT, 341MCT

Technical Specifications

TURBOVAC		340 M	340 M	340 MC	340 MC	340 MCT	341 MCT
High-vacuum connection flange	DN	100 ISO-K 100 CF	160 ISO-K 160 CF	100 ISO-K	160 ISO-K	100 ISO-K	100 ISO-K
Pumping speed for							
N ₂	l·s ⁻¹	270	400	270	400	270	270
He	l·s ⁻¹	370	400	370	400	370	370
H ₂	l·s ⁻¹	340	370	340	370	340	340
Compression for							
N ₂		> 10 ⁹	> 10 ⁹	> 10 ⁹	> 10 ⁹	> 10 ⁹	> 10 ⁹
He		6.4·10 ⁴	6.4·10 ⁴	6.4·10 ⁴	6.4·10 ⁴	6.4·10 ⁴	6.4·10 ⁴
H ₂		2.5·10 ³	2.5·10 ³	2.5·10 ³	2.5·10 ³	2.5·10 ³	2.5·10 ³
Ultimate pressure as to DIN 28 400	mbar	< 10 ⁻¹⁰	< 10 ⁻¹⁰	< 10 ⁻¹⁰	< 10 ⁻¹⁰	< 10 ⁻¹⁰	< 10 ⁻¹⁰
Max. forevacuum pressure at rated speed	mbar	5·10 ⁻¹	5·10 ⁻¹	5·10 ⁻¹	5·10 ⁻¹	5·10 ⁻¹	5·10 ⁻¹
Speed	min ⁻¹	51,600	51,600	43,860	51,600	43,860	43,860
Run-up time	min	3.5	3/2125	3.5	3.5	3.5	3.5
Braking time with/without venting	min	1 / 6	1 / 6	1 / 6	1 / 6	1 / 6	1 / 6
Cooling		not required	not required	water	water	water	water
Cooling connection, hose nipple	mm	-	-	7.5	7.5	7.5	7.5
Cooling water temperature	°C (°F)	-	-	15 - 25 (59 - 77)	15 - 25 (59 - 77)	15 - 25 (59 - 77)	15 - 25 (59 - 77)
Cooling water throughput rate at 15°C/59°F	l·h ⁻¹	-	-	20	20	20	20
Max. bake-out temperature at CF flange	°C/°F	100/212	100/212	-	-	-	-
Mounting position		any	any	any	any	any	any
Weight	ca. kg	16	16	16	32	16	16
Forevacuum connection flange	DN	25 KF	25 KF	25 KF	25 KF	25 KF	40 KF
Purge gas connection flange	DN	10 KF	10 KF	10 KF	10 KF	10 KF	10 KF
Venting connection flange	DN	10 KF	10 KF	10 KF	10 KF	10 KF	10 KF
Recommended backing pump TRIVAC							
at normal operation		D 16 B	D 16 B	-	-	-	-
for purge gas operation		D 25 B/BCS	D 25 B/BCS	D 25 B/BCS	D 25 B/BCS	D 25 B/BCS	D 25 B/BCS



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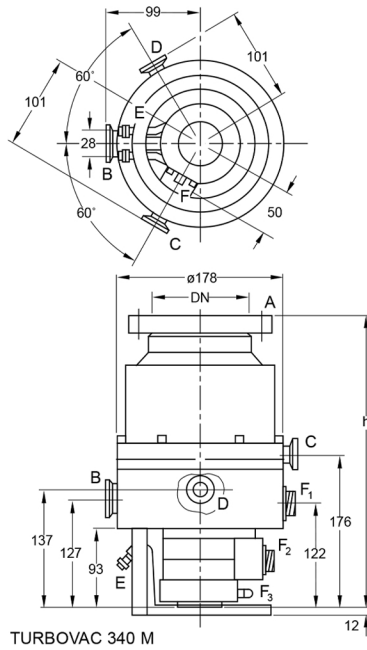
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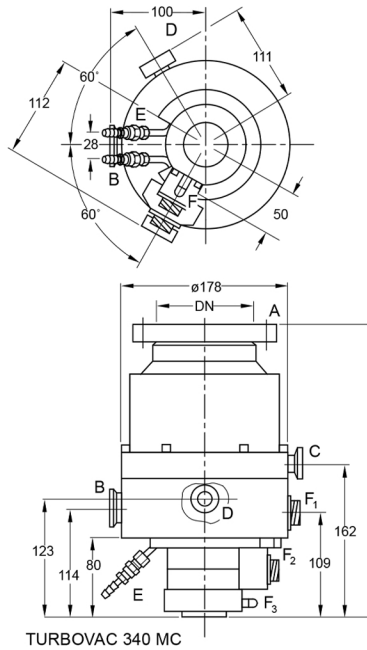
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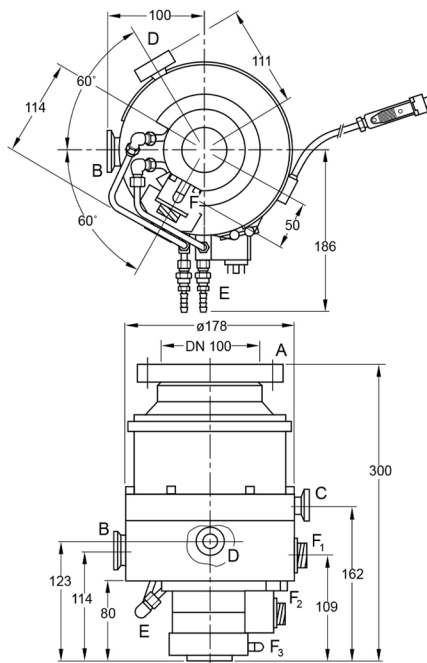
Dimensions



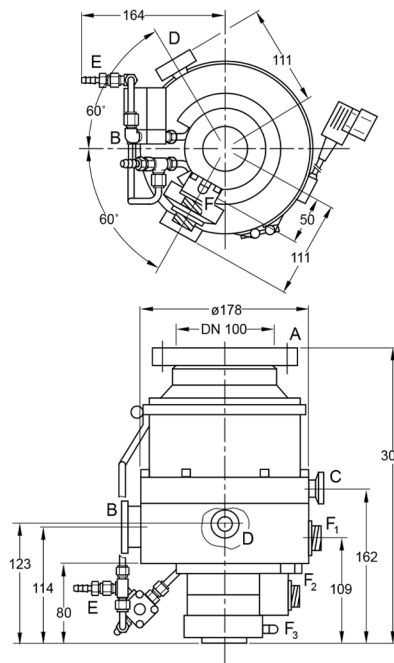
TURBOVAC 340 M



TURBOVAC 340 MC



TURBOVAC 340 MCT



TURBOVAC 341 MCT

Cat. No.	Dim. h
855 80	311
855 81	322
855 82	311
855 83	308
894 32	300
855 97	298

- A = High vacuum flange
- B = Forevacuum flange
- C = Venting flange
- D = Purge gas flange
- E = Connection for cooling
- F₁ = Connection for DC motor
- F₂ = Connection for stabilizer
- F₃ = Connection for axial sensor

Dimensions in mm



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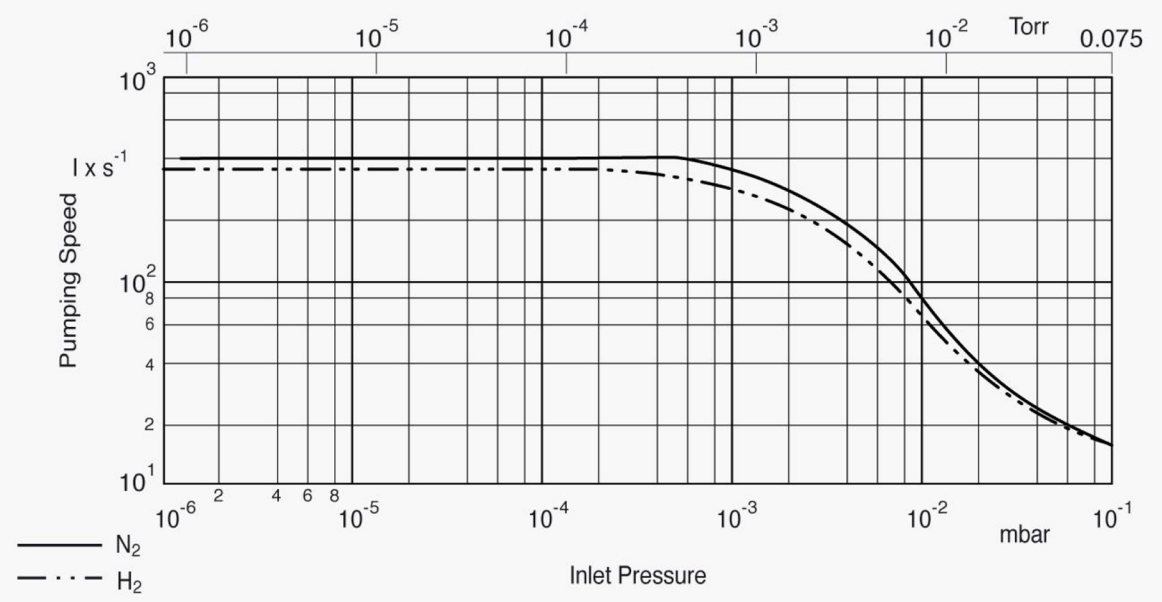
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Pumping Curves

Pumping speed of the TURBOVAC 340 M (100 and 160 ISO-K/CF) as a function of the inlet pressure



Features & Benefits

- magnetic suspension
- absolutely free of any lubricants
- low noise and vibration levels
- operation in any orientation
- convection cooling
- purge gas design
- maintenance-free
- convection cooling

Applications

- surface analysis
- UHV / XHV systems
- research instruments and systems
- gas analysis systems
- particle accelerators
- electron beam microscopy