



Pfeiffer TMH-261, TMH-261P, TMU-261, TMU-261P

Technical Specifications

Feature	Unit	TMH 261	TMU 261	TMTMH 261 P	TMU 261 P
Connection nominal diameter					
Inlet		DN 100 ISO-K	DN 100 CF-F	DN 100 ISO-K	DN 100 CF-F
Outlet		DN 25 ISO-KF/G 1/4"		DN 25 ISO-KF/G	
Venting connection		G 1/8"		G 1/8"	
Nominal rotation speed	1/min	60 000		60 000	
Standby rotation speed	1/min	40 000		40 000	
Start-up time	min	1.6		1.6	
Noise level	dB (A)	< 50		< 50	
Final pressure, backing pump	mbar	< 5		< 5	
Maximum permissible rotor temperature	°C	90		90	
Permissible heat radiation power	W	8		8	
Volume flow rate for					
Nitrogen N ₂	l/s	210		210	
Helium He	l/s	220		220	
Hydrogen H ₂	l/s	190		190	
Compression ratio for					
N ₂		> 1 · 10 ⁹		> 1 · 10 ⁹	
He		3 · 10 ⁵		3 · 10 ⁵	
H ₂		1.3 · 10 ⁴		1.3 · 10 ⁴	
Maximum fore-vacuum pressure for					
N ₂	mbar	10		10	
He	mbar	8		8	
H ₂	mbar	4		4	
Maximum gas throughput ¹⁾					
With water cooling N ₂	mbar l/s	9		7	
He	mbar l/s	12		9	
H ₂	mbar l/s	60		43	
Maximum gas throughput at intake pressure of 0.1 mbar ³⁾					
N ₂	mbar l/s	7		5.5	
He	mbar l/s	6		4.5	
H ₂	mbar l/s	3.5		2.7	
Vertex power characteristics line ⁴⁾					
A	W / Hz	170/1000		170/1000	
B	W / Hz	170/1000		170/1000	
C	W / Hz	103/1000		170/1000	
D	W / Hz	170/760		170/1000	
Final pressure ⁵⁾					
With rotary vane pumps	mbar	< 5 · 10 ⁻¹⁰		< 5 · 10 ⁻¹⁰	
With diaphragm pumps	mbar	< 1 · 10 ⁻⁸		< 1 · 10 ⁻⁸	
Lubricant		TL 011		TL 011	
Maximum cooling water consumption with water at 15 °C ⁶⁾	l/h	100		100	
Cooling water temperature	°C	5 - 25		5 - 25	
Permissible ambient temperature with air cooling	°C	0 - 35		0 - 35	
Heating power consumption	W	60		60	
Weight	kg	5.3	7.3	5.4	7.4
Permissible magnetic field	mT	6		6	
Operating voltage	VDC	48 ± 5%		48 ± 5%	
Duration ⁵⁾ / max. current consumption	A	4.1 / 4.8		4.1 / 4.8	
Duration ⁶⁾ / max. power	W	170 / 200		170 / 200	
Protection class ⁷⁾		IP 30		IP 30	
Relative humidity	%	5-85 non-condensing		5-85 non-condensing	

1) Measured with a rotary vane pump 10 m³/h; higher throughputs with reduced rotation speed.

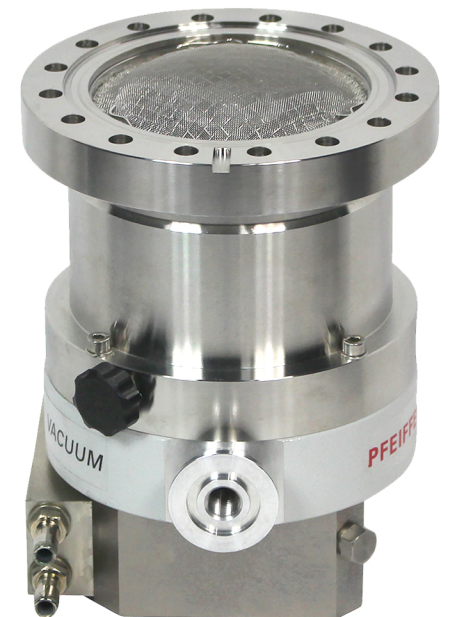
2) Rotation speed of pump may drop below the nominal rotation speed.

3) For gas type characteristic lines please refer to section 4.4.

4) In accordance with German Industrial Standard 29428 the 48 hours after baking out.

5) At maximum gas throughput.

6) Protection class IP 54 is afforded for the Electronic Drive Unit TC 600 by retro-fitting a cover plate (accessory).





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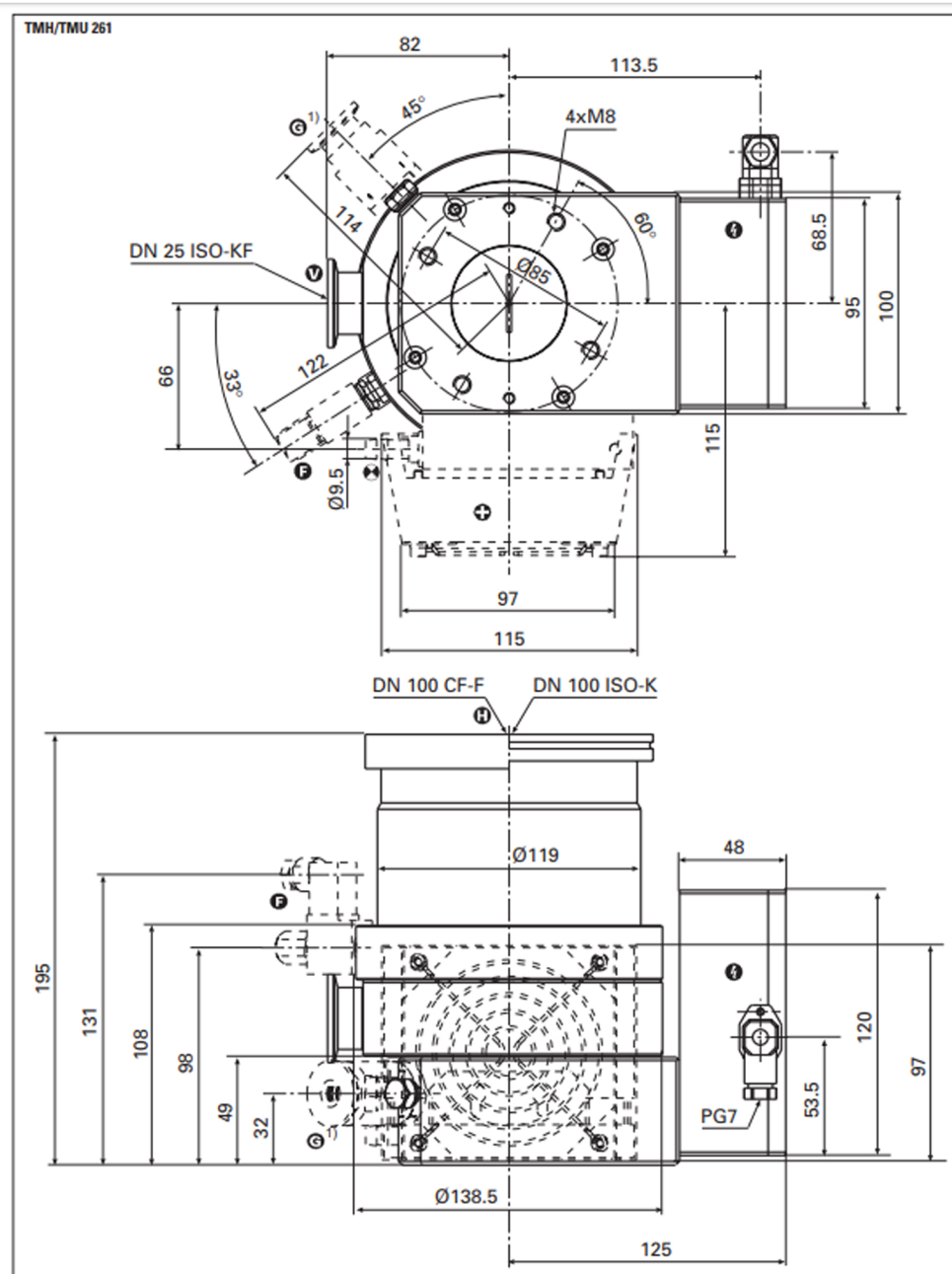
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Dimensions





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Features & Benefits

- pump and drive form single unit
- simple and economical system solution
- modular design for maximum flexibility
- all components connects on the plug & play principle
- minimal space requirements for the entire system
- integrated serial interface provides additional versatility
- low vibration & noise level
- low system costs

Applications

- electron optics/microscopy • leak detection • mass spectrometry
- surface analysis • plasma monitoring • residual gas analysis
- spectroscopy • defect analysis • sputtering • nuclear research
- space applications • particle accelerators