



Pfeiffer TMH-260C

Technical Specifications

Feature	Unit	TMH 260 C TMU 260 C	TMH 520 C TMU 520 C	TMH 520 C TMU 520 C
Connection nominal diameter				
Inlet		DN 100 ISO-K DN 100 CF-F	DN 100 ISO-K DN 100 CF-F	DN 160 ISO-K DN 160 CF-F
Outlet		DN 25 ISO-KF G 1/4"	DN 25 ISO-KF G 1/4"	DN 25 ISO-KF G 1/4"
Electronic drive unit		TCP 380	TCP 380/TCP 600	
Rated rotation speed	1/min	60 000	50 000	
Stand-by rotation speed	1/min	40 000	33 000	
Run-up time (up to 90% of the rated rotation speed with TCP 380)	min	1,5	7	
Noise level	dB (A)	< 50	< 50	
Maximum permissible rotor temperature	°C	90	90	
Permissible heat radiation power	W	6	10,5	
Volume flow rate (with oil sealed rotary vane vacuum pump)				
Nitrogen N ₂	l/s	170	300	500
Helium He	l/s	170	400	500
Hydrogen H ₂	l/s	150	400	480
Compression ratio for				
N ₂		> 1 · 10 ⁹	> 10 ¹²	
He		3 · 10 ⁵	5 · 10 ⁷	
H ₂		1,3 · 10 ⁴	5 · 10 ⁶	
Max. fore-vacuum pressure				
N ₂	mbar	10	16	
He	mbar	8	14	
H ₂	mbar	4	7	
Max. gas throughput ¹⁾				
N ₂	mbar l/s	2,5	4	
He	mbar l/s	2,5		
H ₂	mbar l/s	2	9	
Sealing gas throughput ²⁾	mbar l/s	0,1 - 0,5	0,1 - 0,5	
Final pressure, backing pump	mbar	< 5	< 5	
Final pressure (with diaphragm pump < 1·10 ⁻⁹ mbar)	mbar	< 1 · 10 ⁻⁸	< 1 · 10 ⁻⁹	
Lubricant "F3", required amount	cm ³	35	35	
Cooling water requirements with water at 15 °C ³⁾	l/h	100	100	
Cooling water temperature	°C	5 - 25	5 - 25	
Power consumption, heating	W	60	100	
Permissible magnetic field	mT	5,5	5,0	
Weight	kg	8,5 / 9	12,5	13

1) Measured with a rotary vane vacuum pump 1.5 m³/h.

2) With sealing gas valve, adjustable; for sealing gas valve, see "Accessories".

3) With maximum gas throughput.



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Dimensions

