



Pfeiffer TMH-520, TMU-520

Technical Specifications

		TMH 520 TMU 520	TMH 520 TMU 520
Connection nominal diameter	Inlet	DN 100 ISO-K	DN 160 ISO-K
	Outlet	DN 100 CF-F	DN 160 CF-F
		DN 25 ISO-KF	DN 25 ISO-KF
		G 1/4"	G 1/4"
Electronic Drive Unit		TCP 380/TCP 600	
Final pressure, backing pump	mbar	< 5	< 5
Max. permissible rotor temperature	°C	90	
Permissible heat radiation power	W	10,5	
Pumping speed for			
Nitrogen N ₂	l/s	300	500
Helium He	l/s	400	500
Hydrogen H ₂	l/s	400	480
Compression ratio for			
N ₂		> 10 ¹²	> 10 ¹²
He		5 · 10 ⁷	5 · 10 ⁷
H ₂		5 · 10 ⁶	5 · 10 ⁶
Max. fore-vacuum pressure			
N ₂	mbar	16	16
He	mbar	14	14
H ₂	mbar	7	7
Max. gas throughput ¹⁾			
N ₂	mbar l/s	3	3
He	mbar l/s	4	4
Final pressure ²⁾			
with rotary vane vacuum pump	mbar	5 · 10 ⁻¹¹	5 · 10 ⁻¹¹
with diaphragm vacuum pump	mbar	5 · 10 ⁻¹¹	5 · 10 ⁻¹¹
Nominal rotation speed	1/min	50000	50000
Stand-by rotation speed	1/min	33000	33000
Run-up time (up to 90% of the rated rotation speed with TCP 380/TCP 600)	min	7/5	7/5
Cooling type, standard		water	
Max. cooling water requirements with water at 15 °C ³⁾	l/h	50	50
Cooling water temperature	°C	5 - 25	
Air cooling		option	
Permissible ambient temperature with air cooling	°C	0 - 35	
Heating power consumption	W	100	100
Noise level	dB (A)	< 50	< 50
Lubricant		TL 011	
Permissible magnetic field	mT	5,0	5,0
Weight	kg	12,5	13

¹⁾ Measured with rotary vane vacuum pump 1,5 m³/h, higher gas throughputs with reduced rotation speed.

²⁾ In accordance with DIN 28 428 the final pressure of a turbomolecular pump is that pressure which is attained in a measuring dome 48 hours after baking out.

³⁾ With max. gas throughput.





PROVAC

SALES

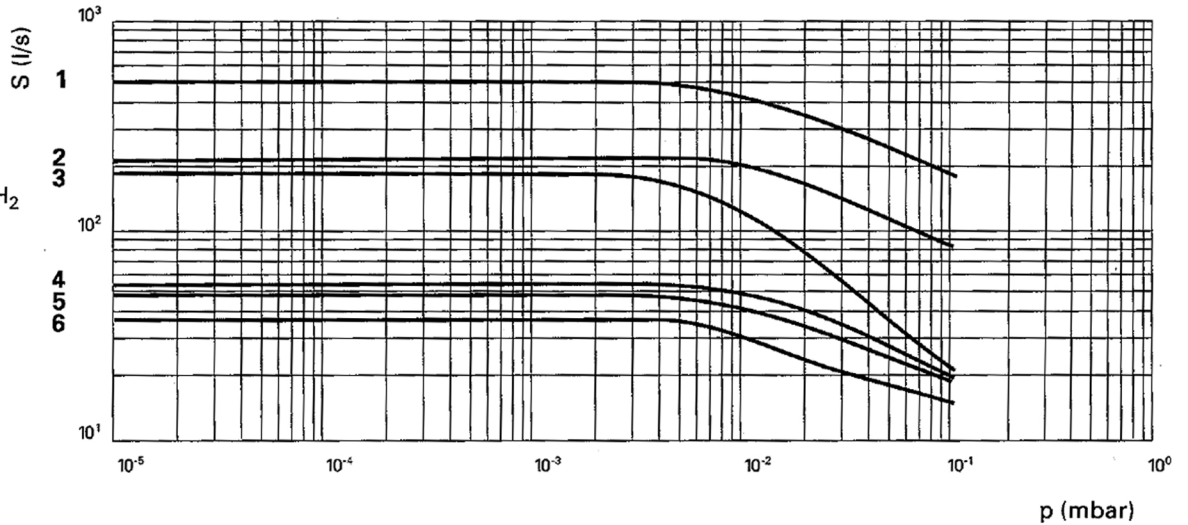
PHONE: 831-462-8900

FAX: 831-462-3536

WWW.PROVAC.COM

Pfeiffer TMH-520, TMU-520 Pumping Curves

- Pumping speed**
- 1 TMH/U 520: He, N₂, H₂
 - 2 TMH/U 260: He, N₂
 - 3 TMH/U 260: H₂
 - 4 TMH/U 064/065: N₂
 - 5 TMH/U 064/065: He
 - 6 TMH/U 064/065: H₂



Dimensions

