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Pfeiffer TPH-261PC, TPU-261PC **Technical Specifications**

Größe	Einheit	TPH 261 P C	TPU 261 P C
Connection nominal diameter: Inlet		DN 100 ISO-K	DN 100 CF-F
Outlet		DN 25 ISO-KF/G 1/4"	DN 25 ISO-KF/G 1/4"
Venting connection		G 1/8"	G 1/8"
Nominal rotation speed	Hz (1/min)	833 (50 000)	833 (50 000)
Standby rotation speed	Hz (1/min)	550 (33 000)	550 (33 000)
Start-up time			
(up to 90% of the nominal rotation speed			
fore-vacuum pressure ≤ 0.1 mbar)	min	2	2
Maximum noise level ¹⁾	dB (A)	50	50
Final pressure, backing pump	mbar	< 10 ⁻²	< 10 ⁻²
ntegral leak rate (He) ²⁾	mbar I/s	< 1 · 10 ⁻⁷	< 1 · 10 ⁻⁷
Maximum permissible rotor temperature	°C	120	120
Permissible heat radiaten power	w	8	8
Volum flow rate for:			
Nitrogen N ₂	l/s	175	175
Helium He	l/s	156	156
Hydrogen H ₂	l/s	92	92
Argon Ar	l/s	170	170
Tetrafluoromethane CF ₄	l/s	155	155
Compression ration for:		7	7
N ₂		> 10 ⁷	> 10 ⁷
He		3,5 · 10 ³	3,5 · 10 ³
H ₂		3,0 · 10 ²	3,0 · 10 ²
Ar		> 6 · 10 ⁶	> 6 · 10 ⁶
CF ₄		> 10 ⁷	> 10 ⁷
Maximum fore-vacuum pressure			
N ₂	mbar	1.0	1.0
He	mbar	0.8	0.8
H ₂	mbar	0.4	0.4
Ar	mbar	1.4	1.4
CF₄	mbar	1.4	1.4
Maximum gas throughput ³⁾ at final rotation			
		8.0	8.0
N ₂ He	mbar l/s mbar l/s	8.0 16.5	8.0 16.,5
	mbar l/s	> 50	> 50
H ₂	mbar l/s	> 50 4.7	4.7
Ar CE-	mbar l/s	5.5	5.5
CF ₄ Maximum gas throughput	IIIDai 1/5	5.5	5.5
at intake pressure of 0.1 mbar ⁴⁾			
N ₂	mbar l/s	3.0	3.0
He	mbar l/s	2.0	2.0
H ₂	mbar l/s	1.0	1.0
Ar	mbar l/s	4.0	4.0
CF₄	mbar l/s	5.0	5.0
Vertex power characteristics line ⁵⁾			
	W / Hz	170/833	170/833
A B	W / Hz W / Hz	170/833	170/833
C	W / Hz	170/833	170/833
D	W / Hz W / Hz	170/833	170/833
Final pressure ⁶⁾	,112	11 0) 000	.70/000
with rotary vane vacuum pump	mbar	< 1 · 10 ⁻⁸	< 5 · 10 ⁻¹⁰
Lubricant			
Type ⁷)	[F3	F3
Filling volume	ml	35	35
		55	
Maximum cooling water consumption	I/b	100	100
with water at 15 °C° ⁷ Cooling water temperature	Vh °C	100 5 - 25	100 5 - 25
Power consumption, casing heating unit	w	5 - 25 100	5 - 25 100
Weight Permissible magnetic field	kg mT	9.8 6.0	10.1 6.0
Operating voltage	VDC	48 ± 5%	48 ± 5%
Duration ⁸⁾ -/max. current consumption Duration ⁸⁾ -/max. power Protection class ⁹⁾	A	4.1	4.6
puration%- / max. power	W	200	220
D (() ())			
Protection class ⁹⁾	00	IP 30	IP 30
Protection class ⁹⁾ Shipping and storage temperature Relative humidity of air	°C %	IP 30 -25 to +55 5-85 non-condensing	IP 30 -25 to +55 5-85 non-condensing

¹⁾ Distance from the pump 1 m 2) Measured at a helium concentration of 100 %, 10 s measurement time 3) Measured with the Rotaty vane Vacuum Pump DUO 10 4) Rotation speed of pump may drop below the nominal rotation speed.

⁵⁾ For gas type characteristic lines please refer to section 4.4.
6) In accordance with DIN 28 428 the final pressure is that pressure which is attained in a measuring dome 48 hours after backing out.
7) Please see type plate.
8) With maximum gas throughput.
9) Protection class IP 54 is afforded for the Electronic Drive Unit TC 600 by retrofitting a cover plate

Pfeiffer TPH-261PC, TPU-261PC **Dimensions**

