



# Pfeiffer TPH-521PC

## Technical Specifications

		TPH 521 P C		TPH 521 P C	
Connection nominal diameter::					
Inlet		DN 100 ISO-K	DN 160 ISO-K DN 100 ISO-F	DN 100 CF-F	DN 160 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	-tz (1/min)	717 (43 000)		717 (43 000)	
Standby rotation speed	-tz (1/min)	477 (28 600)		477 (28 600)	
Start-up time (up to 90% of the nominal rotation speed)		3.5 min		3.5 min	
fore-vacuum pressure $\leq 0.1$ mbar)	min	3.5		3.5	
Maximum noise level <sup>1)</sup>	dB (A)	50		50	
Final pressure, backing pump	mbar	$< 10^{-2}$		$< 10^{-2}$	
Integral leak rate (He) <sup>2)</sup>	mbar l/s	$< 1 \cdot 10^{-7}$		$< 1 \cdot 10^{-7}$	
Maximum permissible rotor temperature	°C	120		120	
Permissible heat radiaten power	W	14		14	
Volum flow rate for:					
Nitrogen N2	l/s	260	430	260	430
Helium He	l/s	296	380	266	380
Hydrogen H2	l/s	220	300	220	380
Argon Ar	l/s	245	430	245	430
Tetrafluoromethane CF4	l/s	200	360	200	360
Compression ration for:					
N2		$> 10^7$		$> 10^7$	
He		$4.8 \cdot 10^3$		$4.8 \cdot 10^3$	
H2		$3 \cdot 10^2$		$3 \cdot 10^2$	
Ar		$> 10^7$		$> 10^7$	
CF4		$> 10^7$		$> 10^7$	
Maximum fore-vacuum pressure					
N2	mbar	1.0		1.0	
He	mbar	0.8		0.8	
H2	mbar	0.4		0.4	
Ar	mbar	1.3		1.3	
CF4	mbar	1.4		1.4	
Maximum gas throughput <sup>3)</sup> at final rotation speed					
N2	mbar l/s	7.6		7.6	
He	mbar l/s	14.5		14.5	
H2	mbar l/s	50.0		50.0	
Ar	mbar l/s	3.8		3.8	
CF4	mbar l/s	4.0		4.0	
Maximum gas throughput at intake pressure of 0.1 mbar <sup>4)</sup>					
N2	mbar l/s	6.0		6.0	
He	mbar l/s	4.0		4.0	
H2	mbar l/s	3.0		3.0	
Ar	mbar l/s	7.0		7.0	
CF4	mbar l/s	8.0		8.0	



# PROVAC

## SALES

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## Pfeiffer TPH-521PC Dimensions

