



Pfeiffer TPH-330, TPU-330

Technical Specifications

		TPH 330	TPU 330
Intake flange		DN 100 ISO-K	DN 100 CF-F
Fore-vacuum flange		DN 25 KF	
Volume flow rate for			
Nitrogen	N ₂ l/s	300	
Helium	He l/s	370	
Hydrogen	H ₂ l/s	330	
Recommended backing pump accompanying electronic drive unit		12 TCP 121 TCP 300 TCP 310 TCP 380	
Compression ratio for			
	N ₂	1 · 10 ⁹	
	He	3 · 10 ⁴	
	H ₂	1,7 · 10 ³	
Ultimate pressure, theor. ²⁾ mbar		10 ⁻¹¹	
Ultimate operating pressure	① mbar	< 1 · 10 ⁻¹⁰	
	② mbar	< 1 · 10 ⁻⁹	
	③ mbar	< 1 · 10 ⁻⁸	
Speed	rpm	60.000	
Start-up time with TCP 300/310 ¹⁾	min	3	
Start-up time with TCP 120/121	min	4,5	
Permissible magnetic field ³⁾	mT	6	
Oil filling	cm ³	2 x 10	
Cooling water requirement	l/h	15	
Cooling water temperatur	°C	5 – 25	
Permissible ambient temperature for air cooling	°C	0 – 35	
Power input of heater	Watt	-	180
Weight	kg	19	20

1) to 90% of the rated speed

2) Comments under 3.1

3) Screening for strongest magnetic fields on request





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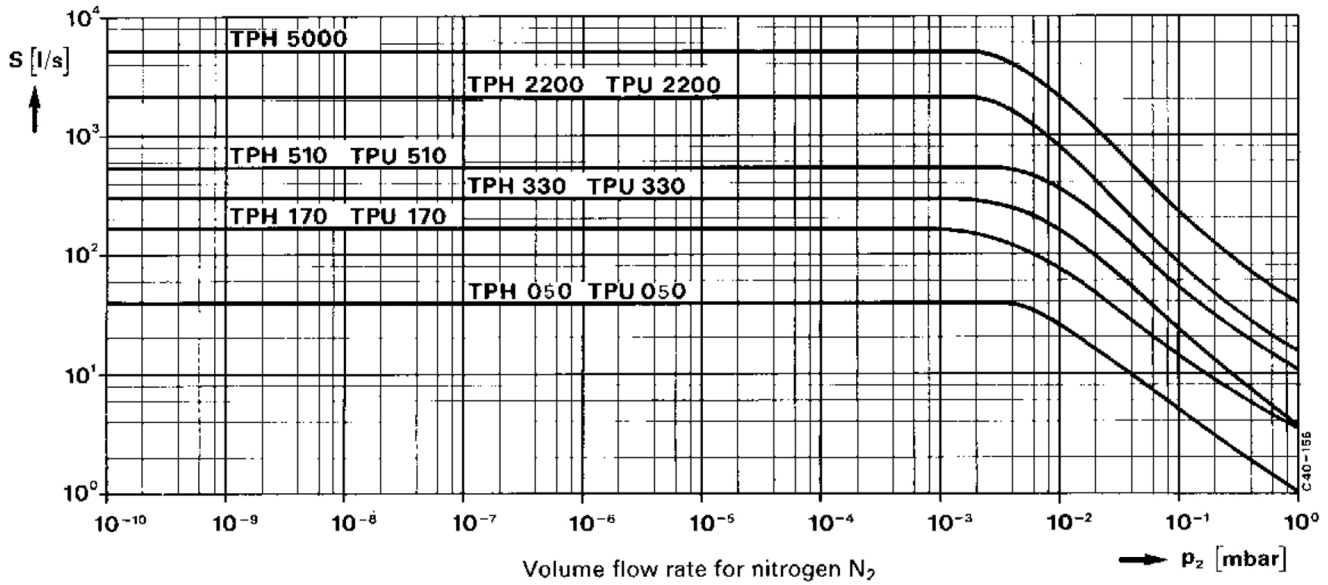
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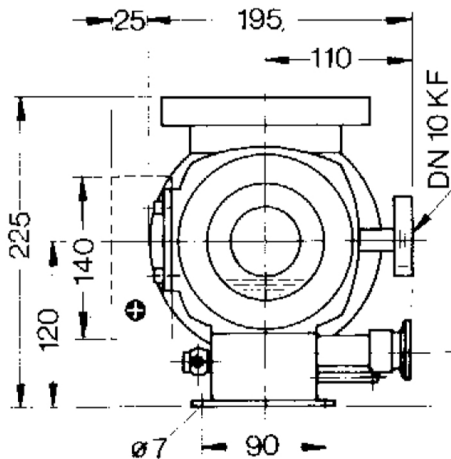
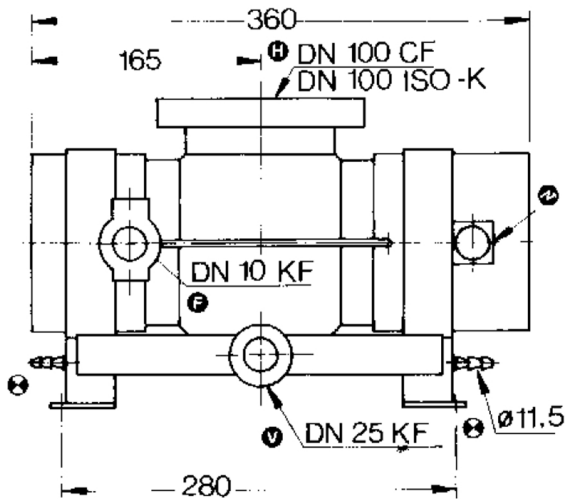
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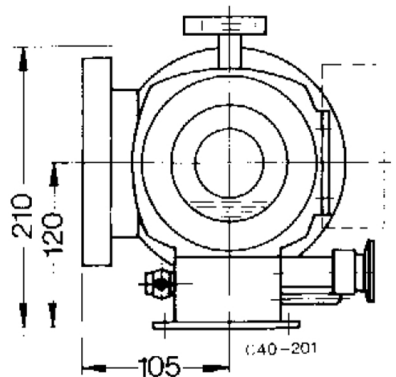
Pfeiffer TPH-330, TPU-330 Pumping Curves



Dimensions



TPH 330/TPU 330



- ⊕ High-Vacuum Connection
- ⊖ Fore-Vacuum Flange
- ⊗ Coolant Connection
- ⊕ Air cooling
- ⊙ Connection for electronic drive unit
- ⊕ Flooding connection
- ⊙ Connection for measuring instrument



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Pfeiffer TPH-330, TPU-330 Features & Benefits

- TPU model supplied with heating jacket as standard feature
- pump rotor is supported in bearings on both ends
- each ball bearing has its own oil-circulation lubrication system
- can be installed in any housing position with horizontal rotor shaft
- standard version is water cooled (can be easily converted to air cooled)
- thermally protected against excessive ambient temperatures

Applications

- freeze drying - packaging industry • degassing, casting, dry vacuum smelting (super-pure metals) • incandescent lamp manufacturing
- electronic tubes • thin film deposition • space simulation • cryogenic research • electron microscopy • nuclear, plasma, high energy physics
- particle accelerators - storage rings

