



# Pfeiffer TPH-240, TPU-240

## Technical Specifications

Specifications	TPH 240	TPU 240
Inlet	DN 100 ISO-K	DN 100 CF-F
Outlet	DN 25 ISO-KF	
Volume flow rate		
N <sub>2</sub>	230 l/s	
He	240 l/s	
H <sub>2</sub>	210 l/s	
Recommended backing pump	1.5 - 16 m <sup>3</sup> /h	
Compression ratio		
N <sub>2</sub>	10 <sup>8</sup>	
He	3 x 10 <sup>4</sup>	
H <sub>2</sub>	1.5 x 10 <sup>3</sup>	
Ultimate operating pressure	10 <sup>-11</sup> mbar	
Rated speed	60,000 l/min	
Run-up time	1 min	
Operating medium filling	8 cm <sup>3</sup>	
Cooling water requirement at water temperature 15°C	15 l/h	
Water temperature	5 - 25°C	
Permissible ambient temperature for air cooling	5 - 35°C	
Power input of heater	60 W	
Weight	8.5 kg / 19 lb	9 kg / 20 lb
Permissible magnetic field	5.5 mT	



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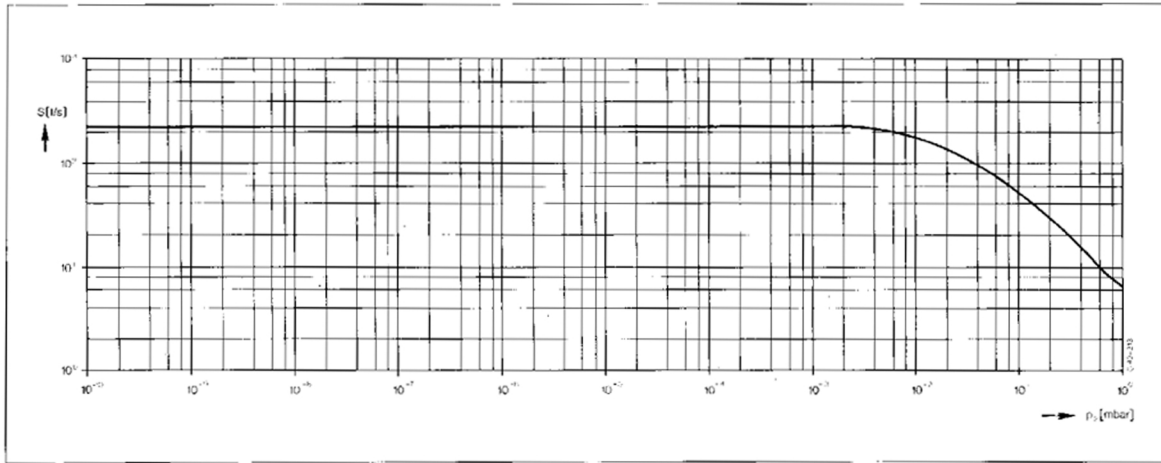
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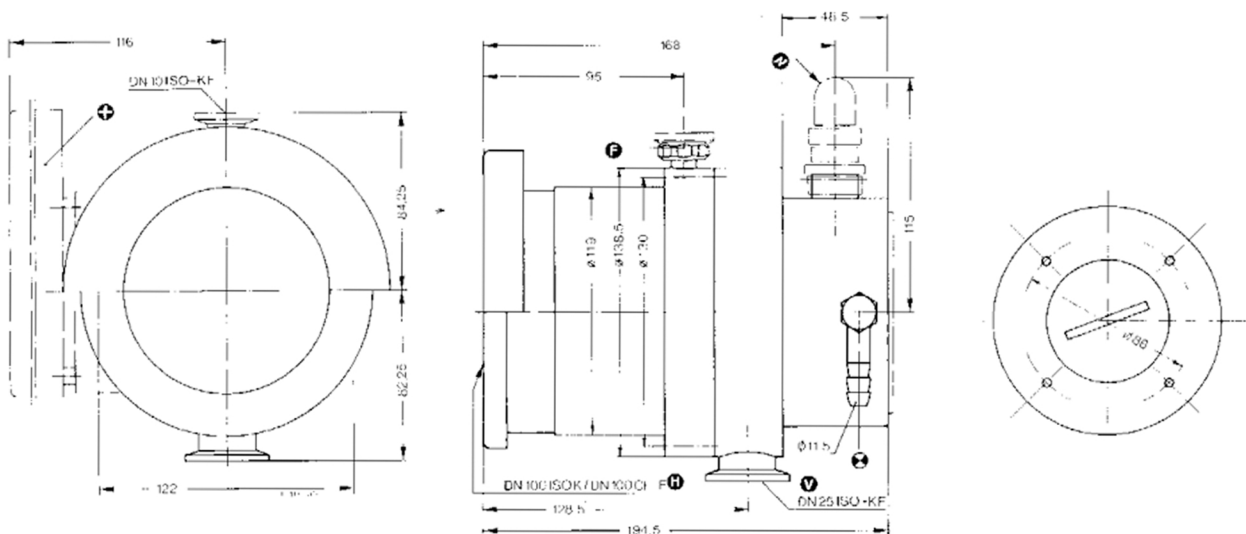
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# Pfeiffer TPH-240, TPU-240 Pumping Curves



Volume flow rate for nitrogen N<sub>2</sub>, TPH/TPU 240

## Dimensions



- Ⓜ High-Vacuum Connection
- Ⓧ Fore-Vacuum Flange
- Ⓦ Venting Connection
- Ⓨ Cooling Water Connection
- Ⓩ Connection for Electronic Drive Unit
- ⓐ Air Cooling



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## Pfeiffer TPH-240, TPU-240

### 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

### Recommended controller/backing pump

- controller: TCP-121 • TCP-380
- backing pump: DUO 016B

