

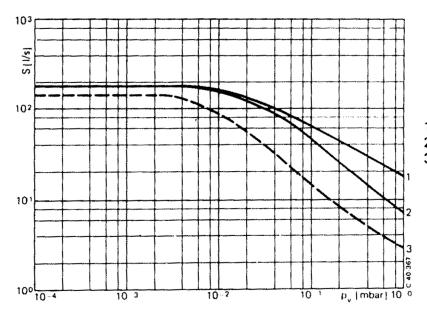
Pfeiffer TPH-180H, TPU-180H Technical Specifications

clamping flange CF flange		ТРН 180 Н	TPU 180 H
Connection diameter Inlet Outlet		DN 100 ISO-K DN 25 ISO-KF	DN 100 CF-F DN 25 ISO-KF
Volume flow rate ¹⁾ for Nitrogen N ₂ Helium He Hydrogen H ₂	l/s l/s l/s	180 170 140	180 170 140
Compression ratio for N ₂ He H ₂		>10 ¹² 5·10 ⁷ 5·10 ⁵	>10 ¹² 5 · 10 ⁷ 5 · 10 ⁵
Recomm. backing pump ¹⁾ , min. Sealing gas quantity, max. Theor. ultimate pressure ²⁾	m ³ /h mbar l/s mbar	3 0,25 10 ⁻¹²	3 0,25 10 ⁻¹²
Rated speed Run-up time ³⁾ Oil filling	rpm min cm ³	50000 4 8	50000 4 8
Type of cooling Standard Conversion kit for		Water Air	Water Air
Gas throughput 3 m ³ /h backing pump 30 m ³ /h backing pump Cooling water requirement	mbar I/s mbar I/s I/h		6 10 15
Power input Heater	W	60	60
Weight Standard pump Pump for corrosive gas	kg kg	10 13.5	10 14

Provac Sales, Inc. 3131 Soquel Drive, Soquel CA 95073



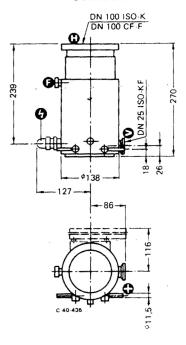
Pfeiffer TPH-180H, TPU-180H Pumping Curves



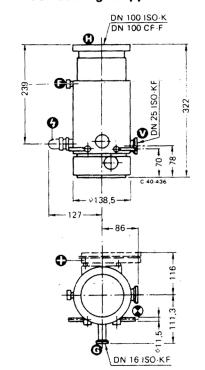
1 30 m³/h backing pump, for N₂ 2 3 m³/h backing pump, for N₂ 3 3 m³/h backing pump, for H₂

Dimensions

Turbo 180 H Standard



Turbo 180 H Corrosive gas applications



- O High vacuum flange
- O Roughing vacuum flange
- Venting connection
- Voltage connection
- Water connection
- Air cooling

PROVAC SALES, INC. 3131 SOQUEL DRIVE, SOQUEL CA 95073



Pfeiffer TPH-180H, TPU-180H Features & Benefits

- high gas throughput with low volume flow rate of backing pump
- designed for corrosive gas applications
- can be employed as universal vacuum pump for hydrocarbon-free & high/ultra-high vacuum
- temperature monitoring
- non-wearing permanent magnet bearing on high vacuum side
- lubricated ball bearing on forevacuum side
- with water cooling as standard feature (converstion to air cooling possible)
- dry backing pump usable
- single flow pump with an additional pumping system on the backing pressure side

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