



# Pfeiffer TPH-062, TPU-062

## Technical Specifications

		TPH 062	TPH 062 TPU 062
Inlet		DN 40 ISO-KF	DN 63 ISO-K/ DN 63 CF-F
Outlet		DN 16 ISO-KF	DN 16 ISO-KF
Volume flow rate for			
N2	l/s	30	56
He	l/s	40	52
H2	l/s	34	45
Recommended backing pump:	m <sup>3</sup> /h	1,5	1,5
Electronic drive unit		TCP 121 / 380	
Compression ratio for			
N2		1 · 10 <sup>8</sup>	1 · 10 <sup>8</sup>
He		7 · 10 <sup>3</sup>	7 · 10 <sup>3</sup>
H2		6 · 10 <sup>2</sup>	6 · 10 <sup>2</sup>
Theoretical final pressure	mbar	10 <sup>-11</sup>	10 <sup>-11</sup>
Final pressure <sup>1)</sup>	mbar	<1 · 10 <sup>-10</sup>	<1 · 10 <sup>-10</sup>
Final pressure <sup>1)</sup>	mbar	<1 · 10 <sup>-9</sup>	<1 · 10 <sup>-9</sup>
Final pressure <sup>1)</sup>	mbar	<1 · 10 <sup>-8</sup>	<1 · 10 <sup>-8</sup>
Rated rotation speed	1/min	90000	90000
Stand-by rotation	1/min	60000	60000
Run-up time <sup>2)</sup>	min	2	2
Operating fluid filling <sup>3)</sup>	cm <sup>3</sup>	4	4
Type of cooling, standard		Convection	
Water temperature at cooling water connection	° C	5 - 25	5 - 25
Cooling water consumption with water-cooling	l/h	15	15
Permissible ambient temperature for air cooling	° C	0 - 35	0 - 35
Permissible magnetic field, max. <sup>4)</sup>	mT	7	7
Weight	kg	3,6	3,6/3,8

<sup>1)</sup>For explanations, see 2.1

<sup>2)</sup>Up to 90 % of the rated rotation speed

<sup>3)</sup>Included in the operating fluid reservoir

<sup>4)</sup>For higher magnetic fields, screening is available on request





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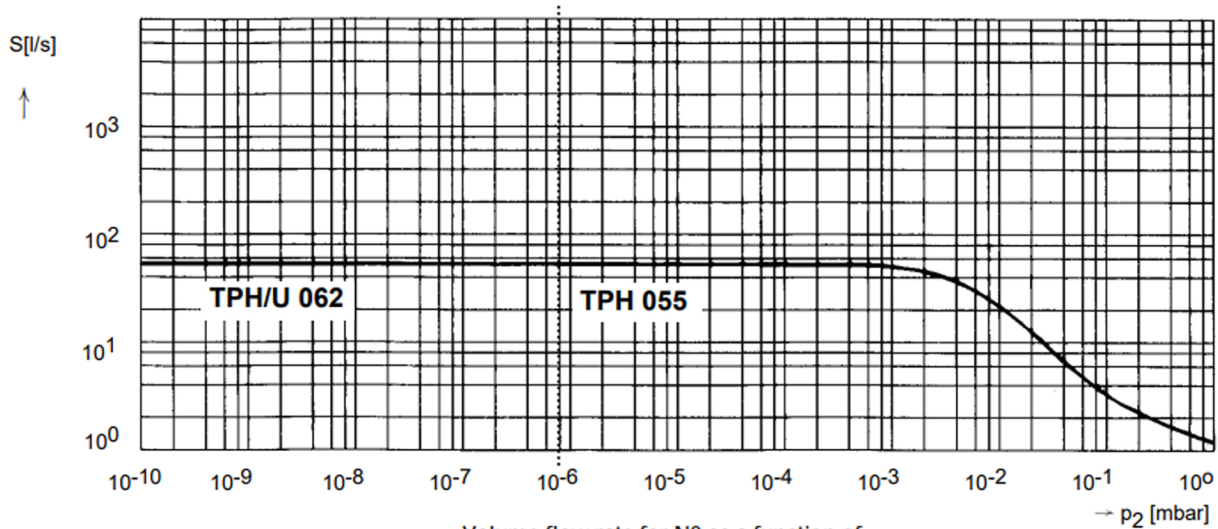
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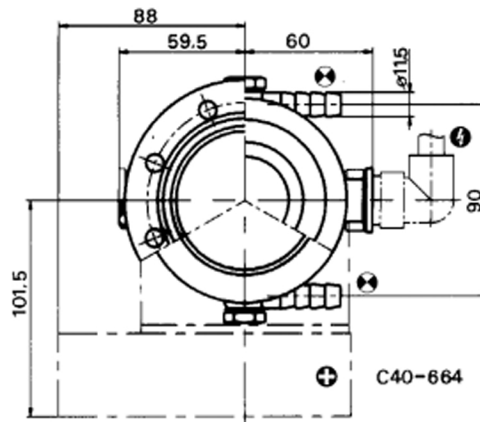
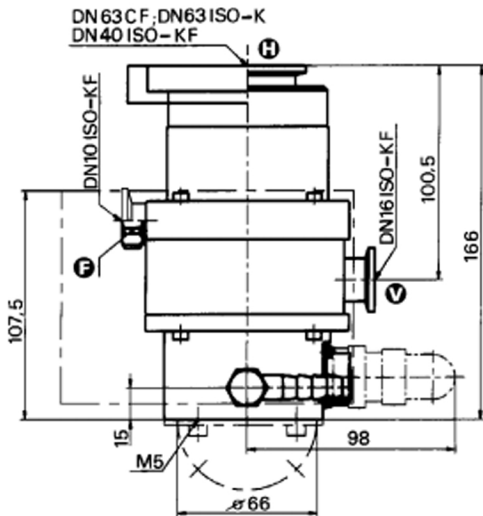
# Pfeiffer TPH-062, TPU-062 Pumping Curves



Volume flow rate for N<sub>2</sub> as a function of the intake pressure p<sub>2</sub>

TPH/TPU 062 with DN 63 ISO K/CF-F flange, and TPH 055 with DN 63 ISO-K flange

## Dimensions



- Cooling water connection
- High vacuum connection
- Backing pump connection
- Venting connection
- Electrical connection
- Air cooling



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## Pfeiffer TPH-062, TPU-062

### 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 1.5A • DUO 1.5B