



# HiPace® 30 Neo with TC 80, DN 63 CF-F

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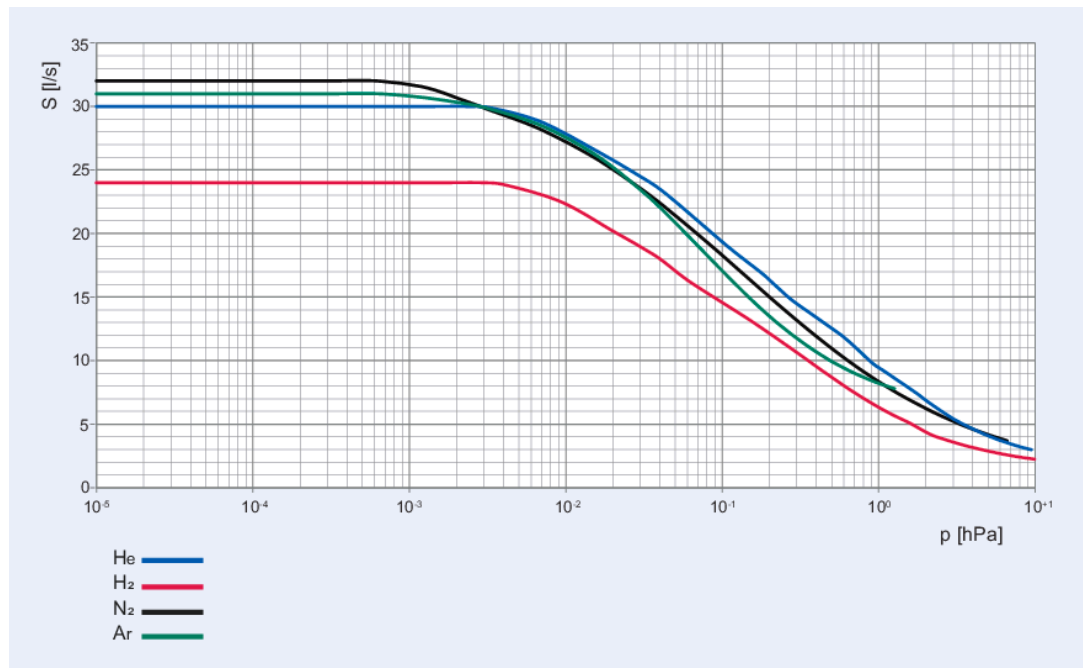


Illustration only

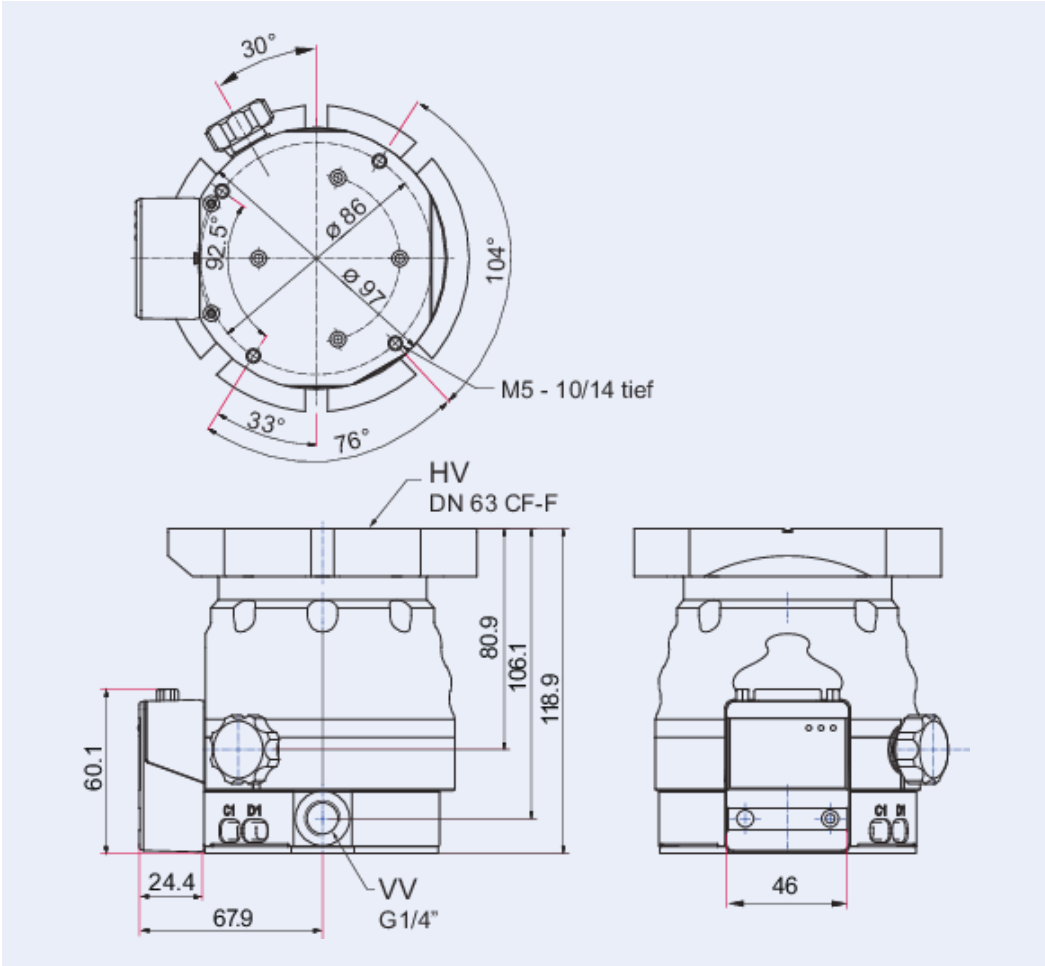
## HiPace® 30 Neo with TC 80, DN 63 CF-F

- Small yet powerful turbopump with a pumping speed of up to 32 l/s for N<sub>2</sub>
- Highest compression in this pumping speed class
- Simple integration into small analytical systems
- Low weight, ideal for portable applications
- Long maintenance intervals for a long life cycle
- For installation in any orientation
- TC 80 integrated electronic drive unit
- Extensive accessories expand the range of applications

## Characteristics



Dimensions



Technical Data	HiPace® 30 Neo with TC 80, DN 63 CF-F
Electronic drive unit	TC 80
Type of electronic drive unit installation	Integrated electronic drive unit
Position of power supply pack	External power supply pack
Cooling method	Natural convection
Pumping speed	72 – 115 m <sup>3</sup> /h
Pumping speed category	108 m <sup>3</sup> /h
Rated current consumption	5 A
Pumping speed for He	30 l/s
Pumping speed for N <sub>2</sub>	32 l/s
Vacuum range min	5 · 10 <sup>-10</sup> hPa
Vacuum range max	5 · 10 <sup>-10</sup> hPa
I/O interfaces	RS-485, Remote
Cooling water temperature	5 – 25 °C
Venting connection	G 1/8"
Bearing	Hybrid
Cooling method, optional	Air (forced convection)   Water
Current max.	5.6 A
Mounting orientation	Arbitrary
Temperature: Storage, max	55 °C
Temperature: Storage, min	-20 °C
Pumping speed for Ar	31 l/s
Pumping speed for H <sub>2</sub>	24 l/s
Input voltage(s)	24 V DC (±10 %)
Emission sound pressure level (EN ISO 2151)	≤48 dB(A)
Permissible axial magnetic field max.	23 mT
Gas throughput at final rotation speed for H <sub>2</sub>	20 hPa·l/s
Gas throughput at final rotation speed for He	7.4 hPa·l/s
Run-up time	65 s
Compression ratio for Ar	1 · 10 <sup>11</sup>
Compression ratio for H <sub>2</sub>	1 · 10 <sup>4</sup>
Compression ratio for He	2 · 10 <sup>5</sup>
Compression ratio for N <sub>2</sub>	1 · 10 <sup>11</sup>
Gas throughput at final rotation speed for N <sub>2</sub>	3.2 hPa·l/s
Gas throughput at final rotation speed for Ar	0.33 hPa·l/s
Fore-vacuum max. for N <sub>2</sub>	20 hPa   15 Torr   20 mbar

Pumping speed for He	30 l/s
Pumping speed for N <sub>2</sub>	32 l/s
Rotation speed ±2 %	90,000 rpm   90,000 min <sup>-1</sup>
Weight	2.9 kg   6.39 lb
Pumping speed for Ar	31 l/s
Pumping speed for H <sub>2</sub>	24 l/s
Compression ratio for N <sub>2</sub>	1 · 10 <sup>11</sup>
Compression ratio for H <sub>2</sub>	1 · 10 <sup>4</sup>
Compression ratio for He	2 · 10 <sup>5</sup>
Compression ratio for Ar	1 · 10 <sup>11</sup>
Permissible radial magnetic field max.	5 mT
Fore-vacuum max. for N <sub>2</sub>	20 hPa
Cooling water flow	75 l/h
Power consumption max.	110 W
03 Vacuum range	High Vacuum   Ultra-high Vacuum
Connection flange	DN 63 CF-F / G ¼" Thread
Rotation speed variable	50 – 100 %
Rotation speed ± 2 %	90,000 rpm
Weight	2.9 kg
Gas throughput at full rotational speed, short term, for N <sub>2</sub>	7.5 hPa·l/s
Gas throughput at full rotational speed, short term, for He	12.5 hPa·l/s
Gas throughput at full rotational speed, short term, for H <sub>2</sub>	20 hPa·l/s
Gas throughput at full rotational speed, short term, for Ar	3 hPa·l/s
Connection flange (in)	DN 63 CF-F
Connection flange (out)	G ¼"

<b>Order number</b>	<b>HiPace® 30 Neo with TC 80, DN 63 CF-F</b>
HiPace® 30 Neo with TC 80, DN 63 CF-F	PM P090 316 10



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