



**HiPace® 700 with TC  
400, DN 160 ISO-K, G 1/4"**

# HiPace® 700

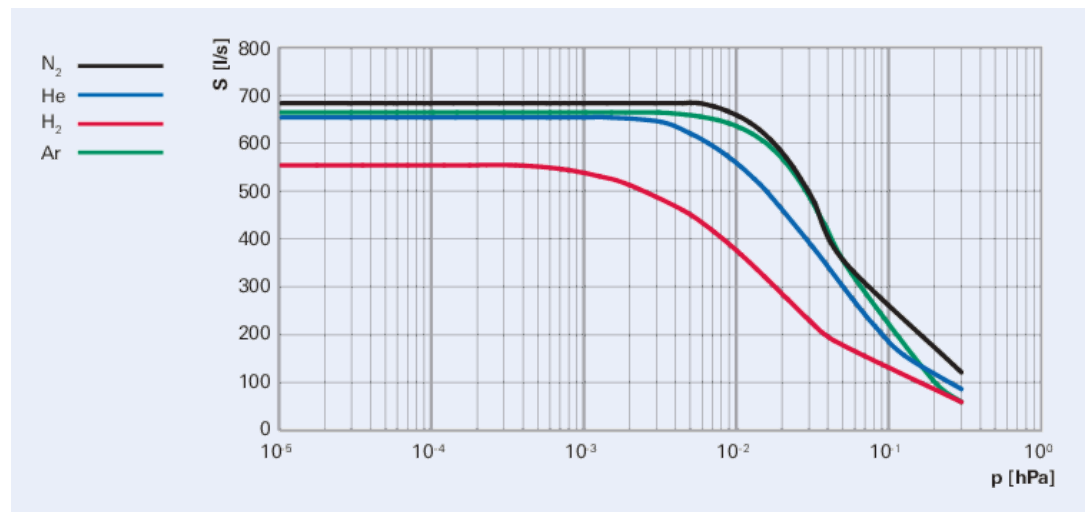


Illustration only

## HiPace® 700 with TC 400, DN 160 ISO-K, G ¼"

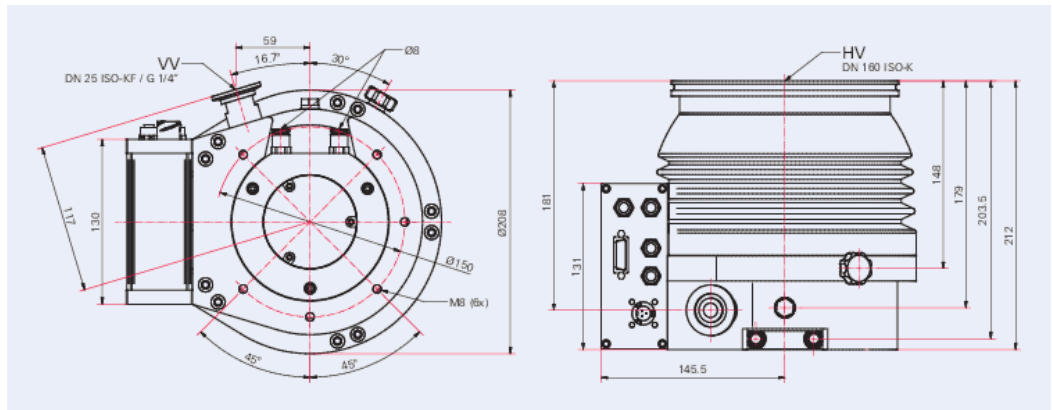
- Compact yet powerful turbopump with a pumping speed of up to 685 l/s for N<sub>2</sub>
- Maximum vacuum performance with minimum power consumption
- For installation in any orientation
- TC 400 integrated electronic drive unit
- Integrated, powerful cooling system

## Characteristics



# HiPace® 700

## Dimensions



# HiPace® 700

| Technical Data                                            | HiPace® 700 with TC 400, DN 160 ISO-K, G ¼" |
|-----------------------------------------------------------|---------------------------------------------|
| Electronic drive unit                                     | TC 400                                      |
| Type of electronic drive unit installation                | Integrated electronic drive unit            |
| Position of power supply pack                             | External power supply pack                  |
| Cooling method                                            | Water                                       |
| Pumping speed                                             | 1998 – 2466 m³/h                            |
| Pumping speed category                                    | 2520 m³/h                                   |
| Pumping speed for He                                      | 655 l/s                                     |
| Pumping speed for N <sub>2</sub>                          | 685 l/s                                     |
| Vacuum range min                                          | 1 · 10 <sup>-7</sup> hPa                    |
| Vacuum range max                                          | 1 · 10 <sup>-7</sup> hPa                    |
| I/O interfaces                                            | RS-485, Remote                              |
| Cooling water temperature                                 | 15 – 35 °C                                  |
| Interfaces, extended                                      | Profibus   DeviceNet   E74                  |
| Venting connection                                        | G 1/8"                                      |
| Bearing                                                   | Hybrid                                      |
| Cooling method, optional                                  | Air (forced convection)                     |
| Current max.                                              | 8.4 A                                       |
| Mounting orientation                                      | Arbitrary                                   |
| Temperature: Storage, max                                 | 55 °C                                       |
| Temperature: Storage, min                                 | -20 °C                                      |
| Pumping speed for Ar                                      | 665 l/s                                     |
| Pumping speed for H <sub>2</sub>                          | 555 l/s                                     |
| Emission sound pressure level (EN ISO 2151)               | ≤50 dB(A)                                   |
| Gas throughput at final rotation speed for H <sub>2</sub> | 14 hPa·l/s                                  |
| Gas throughput at final rotation speed for He             | 20 hPa·l/s                                  |
| Run-up time                                               | 2 min                                       |
| Compression ratio for Ar                                  | 1 · 10 <sup>11</sup>                        |
| Compression ratio for H <sub>2</sub>                      | 4 · 10 <sup>5</sup>                         |
| Compression ratio for He                                  | 3 · 10 <sup>7</sup>                         |
| Compression ratio for N <sub>2</sub>                      | 1 · 10 <sup>11</sup>                        |
| Gas throughput at final rotation speed for N <sub>2</sub> | 6.5 hPa·l/s                                 |
| Gas throughput at final rotation speed for Ar             | 3.5 hPa·l/s                                 |
| Fore-vacuum max. for N <sub>2</sub>                       | 11 hPa   8.25 Torr   11 mbar                |
| Pumping speed for He                                      | 655 l/s                                     |
| Pumping speed for N <sub>2</sub>                          | 685 l/s                                     |

# HiPace® 700

|                                        |                                             |
|----------------------------------------|---------------------------------------------|
| Rotation speed ±2 %                    | 49,200 rpm   49,200 min <sup>-1</sup>       |
| Weight                                 | 11.5 kg   25.35 lb                          |
| Pumping speed for Ar                   | 665 l/s                                     |
| Pumping speed for H <sub>2</sub>       | 555 l/s                                     |
| Compression ratio for N <sub>2</sub>   | 1 · 10 <sup>11</sup>                        |
| Compression ratio for H <sub>2</sub>   | 4 · 10 <sup>5</sup>                         |
| Compression ratio for He               | 3 · 10 <sup>7</sup>                         |
| Compression ratio for Ar               | 1 · 10 <sup>11</sup>                        |
| Permissible radial magnetic field max. | 6 mT                                        |
| Fore-vacuum max. for N <sub>2</sub>    | 11 hPa                                      |
| Cooling water flow                     | 100 l/h                                     |
| Power consumption max.                 | 420 W                                       |
| 03 Vacuum range                        | High Vacuum   Ultra-high Vacuum             |
| Connection flange                      | DN 160 ISO-K / DN 25 ISO-KF   G 1/4" Thread |
| Rotation speed variable                | 60 – 100 %                                  |
| Rotation speed ± 2 %                   | 49,200 rpm                                  |
| Weight                                 | 11.5 kg                                     |
| Connection flange (in)                 | DN 160 ISO-K                                |
| Connection flange (out)                | DN 25 ISO-KF   G ¼"                         |

|                                             |                                                    |
|---------------------------------------------|----------------------------------------------------|
| <b>Order number</b>                         | <b>HiPace® 700 with TC 400, DN 160 ISO-K, G ¼"</b> |
| HiPace® 700 with TC 400, DN 160 ISO-K, G ¼" | 2000236446                                         |



伯东企业（上海）有限公司  
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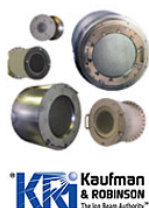
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