



Data sheet

Product data

| Product description | Helix V 5210-2/30/V/KS/400-50 |
|---------------------|-------------------------------|
| | |

Hydraulic data

| Minimum efficiency index (MEI) | ≥0.7 |
|---|--------|
| Maximum inlet pressure <i>p inl</i> | 10 bar |
| Maximum operating pressure PN | 30 bar |
| Discharge port | DN 80 |
| Min. fluid temperature T_{\min} | -15 °C |
| Max. fluid temperature $T_{\rm max}$ | 90 °C |
| Min. ambient temperature \mathcal{T}_{\min} | -15 °C |
| Max. ambient temperature $T_{\rm max}$ | 50 °C |

Motor data

| Mains connection | 3~400 V, 50 Hz |
|--|-----------------|
| Voltage tolerance | ±10 % |
| Rated power P ₂ | 37 kW |
| Motor efficiency class | IE3 |
| Activation type | Star-Delta (Y∆) |
| Rated current $I_{\rm N}$ | 61.6 A |
| Rated speed <i>n</i> | 2960 1/min |
| Power factor $cos\ arphi_{100}$ | 0.93 |
| Motor efficiency 50% $\eta_{\rm M}$ 50% | 93.8 % |
| Motor efficiency 75% $\eta_{\rm M}$ 75% | 94.2 % |
| Motor efficiency 100% $\eta_{ m M}$ 100% | 93.7 % |
| Insulation class | F |
| Protection class motor | IP55 |
| | |

Materials

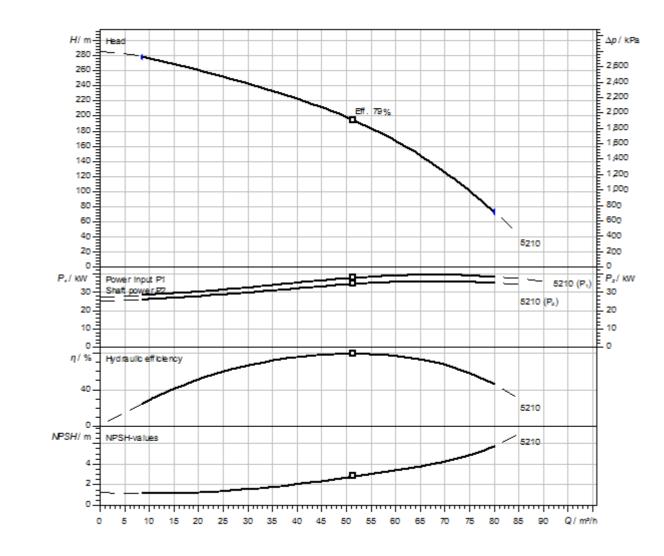
| Pump housing | 1.4409 |
|------------------------|-----------------|
| Impeller | Stainless steel |
| Shaft | Stainless steel |
| Mechanical seal | Q1BVGG |
| Gasket material | FKM |
| Stage chamber material | Stainless steel |

Installation dimensions

| Pipe connection on the suction side <i>DNs</i> | DN 80 |
|--|-------|
| Pipe connection on the discharge side <i>DNd</i> | DN 80 |



Pump curves

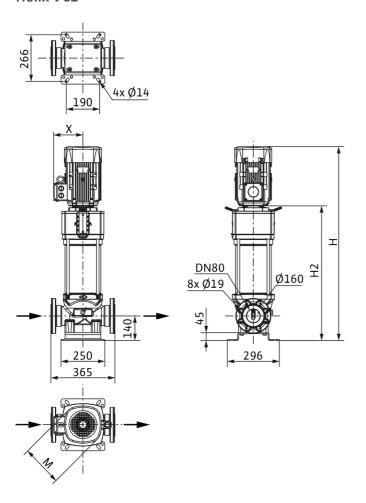


| Fluid media | Water 100 % |
|---------------------|-------------|
| Fluid temperature | 20.00 °C |
| speed at duty point | 2,973 1/min |



Dimensions and dimensions drawings

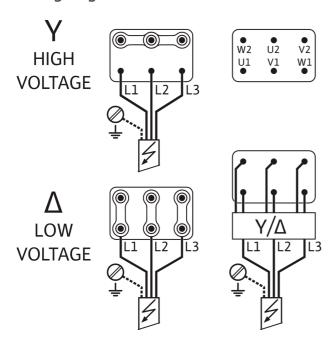
Helix V 52



| Dimensions H | 2208 mm |
|--|---------|
| Dimensions H1 | 222 mm |
| Dimensions L1 | 183 mm |
| Dimensions X | 261 mm |
| Dimensions \emptyset g | 415 mm |
| Pipe connection on the suction side <i>DNs</i> | DN 80 |
| Pipe connection on the discharge side <i>DNd</i> | DN 80 |
| Motor diameter <i>X</i> | 218 mm |
| Dimensions H2 | 1613 mm |



Wiring diagram





Tender text

Highly efficient high-pressure multistage centrifugal pump in vertical design with in-line connections.

The non self-priming high-pressure multistage centrifugal pump has a compact overall design and is particularly efficient and easy to maintain. The pump shaft and the motor shaft of the IEC standard motor are connected by means of a clamp coupling, while a separate lantern roller bearing ensures optimum admission of axial thrusts. Intermediate bearings in the hydraulics and corrosion-resistant shaft due to stainless steel sleeve ensure a long service life. Special, permanently attached lifting eyes enable easy pump installation.

The pump is suitable for water supply, water distribution and pressure boosting, industrial recirculation systems, process water and closed cooling circuits. It can also be used in fire extinguishing systems, washing systems as well as for irrigation.

Special features/product advantages

- > Efficiency-optimised, laser-welded 2D/3D hydraulics, flow and degassing optimised
- > Corrosion-resistant impellers, guide vanes and stage housings
- > Flow and NPSH-optimised pump housing
- > Maintenance-friendly design with particularly robust coupling guard
- > Drinking water approval for pumps with parts that come in contact with the fluid made of stainless steel (EPDM version)

Operating Data

Product data

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| Maximum operating pressure PN | 30 bar |
| Maximum inlet pressure <i>p inl</i> | 10 bar |
| Minimum efficiency index (MEI) | ≥0.7 |

Scope of delivery

- > Wilo-Helix V high-pressure multistage centrifugal pump
- > Installation and operating instructions

Design notes

- > Motor protection for 3-phase motor is to be provided on request or onsite
- > Single-phase AC motor equipped with built-in thermal motor protection and capacitor
- > In its standard position, the terminal box is aligned with the suction flange, but this can be changed if necessary
- > The Wilo-Helix V is equipped with a user-friendly mechanical seal in a cartridge design and standard gasket for easy maintenance
- > The spacer coupling (from ≥ 7.5 kW) allows the mechanical seal to be replaced without removing the motor
- > The flexible lantern design, which is available in two alignments, enables direct access to the mechanical seal
- > For pump versions PN16, PN25 and Pmax = 30 bar, round counter flanges in cast iron or stainless steel, screws, nuts and gaskets are available as accessories
- > Bypass sets are available as accessories
- > The Wilo-Helix V(F) VdS certified version upon request

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Installation dimensions

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| Pipe connection on the discharge side <i>DNd</i> | DN 80 |

Ordering information

| Article number | 4165853 |
|------------------------------|-------------------------------|
| Net weight, approx. <i>m</i> | 314 kg |
| Product description | Helix V 5210-2/30/V/KS/400-50 |
| Brand | Wilo |