wilo

Series description: Wilo-SiBoost Smart (FC) Helix V

Wilo-SiBoost Smart 3 Helix V





Similar to figure

Construction

Highly efficient water-supply unit ready for connection (non self-priming) with 2 to 4 vertically arranged stainless steel high-pressure multistage contrifugal pumps in glanded version from the Helix V series switched in parallel, including Smart Controller SC (available with and without frequency converter FC)

Application

- Fully automatic water supply and pressure boosting in inlet mode, either from the public water supply network or from a tank, for domestic, commercial, industrial and municipal applications (e.g. residential, office, administration buildings, hotels, hospitals, trades, industry, water supply companies).
- · Pumping of drinking water and process water, cooling water, fire water (apart from fire-extinguishing systems in accordance with DIN 14462 and with the approval of the local fire safety authorities) or other types of industrial water that do not attack the materials either chemically or mechanically and do not contain abrasive or long-fibre constituents.

Equipment/function

- 2 4 pumps per system of the Helix V 4 to Helix V 52 series with IE3 standard motor, including 0.75 kW and larger (optional for smaller motor power)
- Automatic pump control via Smart Controller SC The Smart FC version is additionally equipped with a frequency converter in the switchbox
- · Parts that come in contact with the fluid are corrosion-resistant
- · Base frame made of galvanised steel, with height-adjustable vibration absorbers for insulation against structure-borne noise, cable guidance and an integrated lifting device
- · Shut-off device on the suction and pressure sides of each pump
- Non-return valve on the pressure side of each pump
 Diaphragm pressure vessel 8 I, PN 16, pressure side
- · Pressure sensor, pressure side Pressure gauge, pressure side
- · Optional low-water cut-out switchgear with pressure gauge, suction side

Scope of delivery

- · Factory-mounted, ready-for-connection pressure-boosting system checked for functionality and impermeability
- Packaging
- Installation and operating instructions

Type key

Example:	Wilo-SiBoost Smart FC 4 Helix V 3606-ES
SiBoost	System for pressure boosting in the commercial area
Smart	Smart Controller SC control device
FC	Control of the respective base-load pump by frequency converters
4	Number of pumps
Helix V	Pump series
36	Nominal volume flow [m3/h] of the single pump
06	Number of single pump stages
ES	Stainless-steel design of series 22, 36, 52

Your advantages

- Heavy-duty system in accordance with DIN 1988 (EN 806)
- 2 to 4 vertical Helix V series stainless steel high-pressure multistage centrifugal pumps switched in parallel
- High-efficiency pump hydraulics
- Pressure-loss optimised entire system
 Control device SC, communication-capable for the monitoring of the system, LC display, simple navigation and adjustment via rotary knob without or with frequency converter for stepless control of the base-load pump

wilo

Series description: Wilo-SiBoost Smart (FC) Helix V

Technical data

- Mains connection 3~230 V/400 V ±10 %, 50 Hz
- Max. fluid temperature 50 °C (70 °C optional)
- Max. ambient temperature of 40 °C · Operating pressure 16 bar (25 bar optional)
- Inlet pressure 10 bar
- Nominal connection diameters on discharge side R 11/2 DN 200
- Nominal connection diameter on the intake side R $1^{1}\!\!/_{2}$ DN 200
- Rated speed 2850 rpm
 Protection class IP54 (SC control device)
- · Fuse protection A on mains side, AC 3 according to motor power and EVU
- regulations
- Approved fluids (other fluids on request): Note regarding fluids: Approved fluids are generally waters which do not attack the materials used, neither chemically nor mechanically, and do not contain any abrasive or long-fibre constituents. System in accordance with DIN 1988 (EN 806)
 - · Drinking water and hot water
 - Cooling water
 Firefighting water

Materials

Helix V 4 to Helix V 16

- Impellers, guide vanes, stage housing made of stainless steel 1.4307
- Pump housing of stainless steel 1.4301
- Shaft of stainless steel 1.4057
- 1.4404 shaft protection sleeve
- O-Ring gaskets made of EPDM (FKM gasket on request) Pipework made of 1.4301 stainless steel

Helix V 22 to Helix V 52

- Impellers, guide vanes, stage housing made of stainless steel 1.4307 · Pump housing made of 1.4308 stainless steel or cataphoretically coated EN-GJL
- 250 grey cast iron
- Shaft of stainless steel 1.4057
- 1.4404 shaft protection sleeveO-Ring gaskets made of EPDM (FKM gasket on request)
- Pipework made of 1.4301 stainless steel

Description/construction

- · Base frame: galvanised steel, with height-adjustable vibration absorbers for comprehensive insulation against structure-borne noise; other versions on request
- Pipework: complete pipework made of stainless steel, suitable for the connection of all conventional piping materials; the pipework is dimensioned according to the overall hydraulic performance of the pressure boosting system • Pumps: 2 to 4 pumps switched in parallel of the Helix V 4 to Helix V 52 series; all
- pump parts that come in contact with the fluid are made of stainless steel for the Helix VE 4 to VE 16 series or of stainless steel/grey cast iron with cataphoretic coating for the Helix VE 22 to Helix VE 52 series; other versions on request. KTW/WRAS/ACS approval for parts that come in contact with the fluid
- Valves: Each pump is fitted on the suction and pressure side with a standard shut-off device with DVGW approval mark and on the pressure side with a DVGW/KTW-approved non-return valve.
- Diaphragm pressure vessel: 8 I/PN 16 arranged on the discharge side with a diaphragm made of butyl rubber, with DVGW/KTW approval, completely safe in accordance with food safety laws; for testing and inspection purposes, with a ball valve with drain and throughflow fitting with DVGW/KTW approval in accordance with DIN 4807
- · Pressure sensor: 4 to 20 mA, located on the discharge side for controlling the central Smart Controller SC
- Pressure indication: Pressure gauge (ø 63 mm) arranged on the discharge side; additional digital indication of the discharge pressure in the alphanumeric LC display of the Smart Controller SC
- · Control device/controller: The system is equipped with a "Smart Controller" SC as standard; FC versions also equipped with a frequency converter