

Pioneering for You

wilo

SEA Edition - 2020 - 50 Hz

Wilo-SCP





Wilo-SCP

Design

Axially split case pump mounted on a baseplate

Type key

Example:	SCP 200/250HA-110/4
SCP	Axially split case pump
200	Nominal diameter of pressure port
250	Nominal diameter of impeller
HA	Hydraulic Type A
HB	Hydraulic Type B
Hs	Single suction impeller
DS	Two-stage pump
DV	Double volute
110	Rated power P ₂ (kW)
4	Number of poles

Application

- Pumping of heating water (acc. to VDI 2035), cold water and water/glycol mixtures, cooling/cold water and domestic hot water
- Applications in municipal water supply, irrigation, building services, general industry, power stations, etc.

Special features/product advantages

- Efficient hydraulics for high flow rates up to 17,000 m³/h
- Low NPSH thanks to double suction impeller
- High process reliability and easy maintenance without removing the pressure or suction lines.
- Decreased noise level and reduced vibrations
- Options: Energy-efficient IE3/IE4 motors, drinking water approval (KTW,ACS) innovative Ceram CT coating

Technical data (series)

Minimum Efficiency Index (MEI)	-
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Approved fluids (other fluids on request)

Heating water (in accordance with VDI 2035)	•
Cooling and cold water	•
Water-glycol mixtures (for 20–40 vol. % glycol and fluid temperature ≤ 40 °C)	(from 10 vol.% glycol: Performance check required)

Permitted field of application

Fluid temperature-mechanical seal T	-8...+120°C
Fluid temperature-mechanical seal T	-8...+105°C

Pipe connections

Nominal connection diameters DN	On suction side:65–500 (large nominal diameters on request) on pressure side: 50–400 (large nominal diameters in request)
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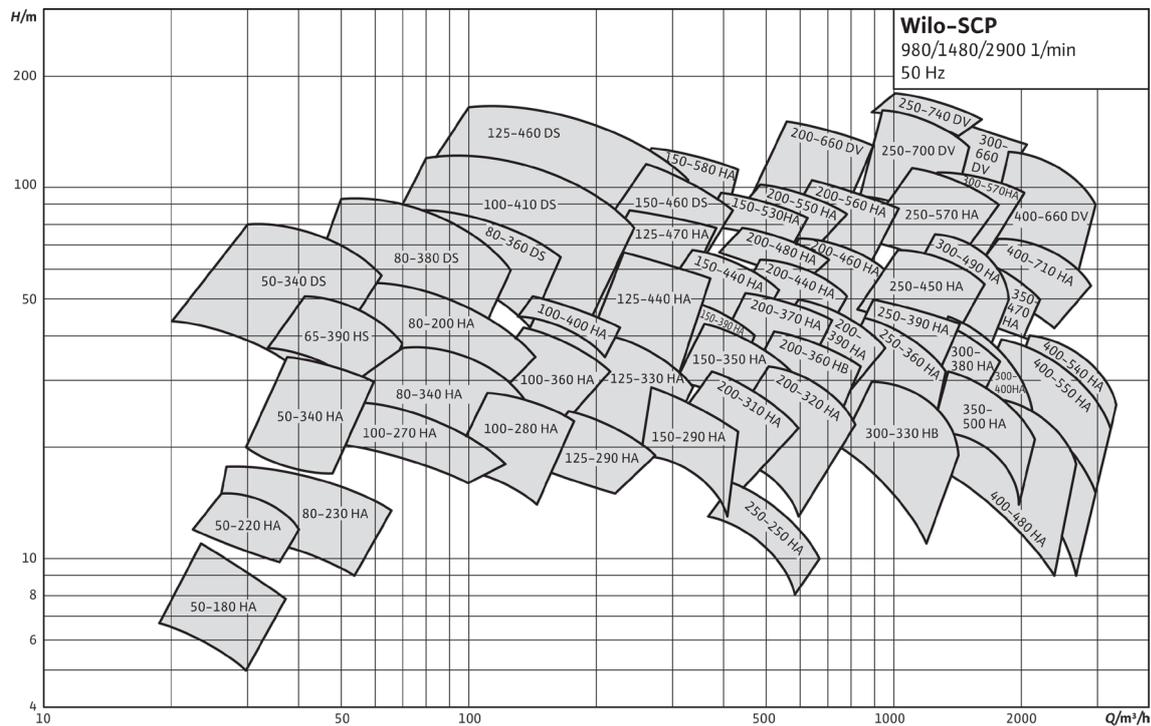
Motor/electronics

IEC standard motor IE2	•
Protection class	IP 55
Insulation class	F
PTC thermistor sensor	•
Motor protection required on site	To be provided by the customer for installation
Motor winding from 3 kW	230 V Δ/400 V Y, 50 Hz
Motor winding from 4 kW	400 V Δ/690 V Y, 50 Hz
Other voltages/frequencies	Special version at additional charge
Speed of 6-pole motors <i>n</i>	980
Speed of 4-pole motors <i>n</i>	1450
Speed of 2-pole motors <i>n</i>	2900
Speed control	Wilo control devices, external frequency converter (at additional charge)

Materials

Pump housing	EN-GJL-250
Pump housing (special version)	Ni-resist cast iron GGL NiCr202/X6CrNiMo1810
Impeller	G-CuSn10
Impeller (special version)	-
Pump shaft	X12cr13
Pump shaft (special version)	X5CrNiMo1810
Mechanical seal	Carbon/silicon carbide/EPDM (E1)
Other mechanical seals	Stuffing box packing

• = appropriate - = not appropriate



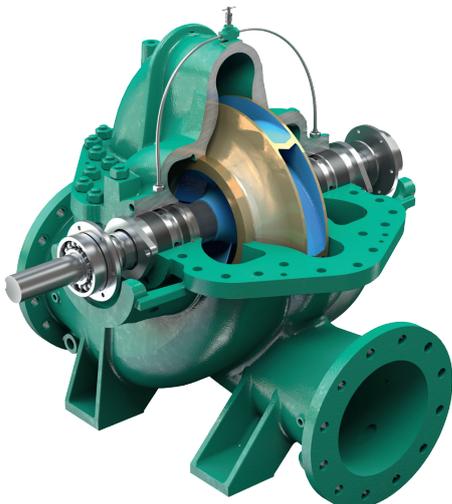
Scope of delivery

- Pump
- Installation and operating instructions

Options

- Other motor versions on request
- Higher volume flow up to 17000 m³/h as special version
- Special motor (6000 V, 10000 V etc.)
- Special construction
 - Impeller: bronze, grey cast iron, stainless steel
 - Housing: bronze, grey cast iron, spheroidal cast iron
- Cyclone separator (for flushing the gasket)

Section drawing (single-stage pump)



Housing, upper part

- Can be removed (reduces maintenance efforts)
- Standard grey cast iron design (other materials available on request)

Impeller

- Double-suction (hydraulically compensated) minimisation of axial thrust
- Standard bronze design; optionally grey cast iron or stainless steel
- Other designs available

Bearing

- Intermediate bearing (minimises shaft deformation)
- Maintenance-free bearing

Pipes for flushing the mechanical seals

- Flushing the mechanical seals
- Cyclone separator available as an option

Housing bottom

- Standard grey cast iron design; optionally spheroidal cast iron (other materials on request)

Mechanical seals

- Stuffing boxes are also available



SEA/SCP/LE2020/10

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