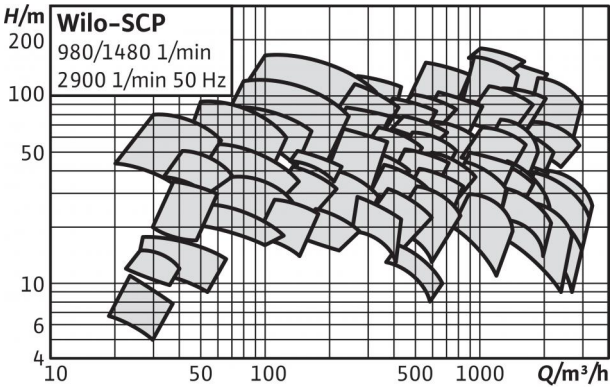
Series description: Wilo-SCP



Similar to figure



Similar to figure

Design

Axially spilt case pump mounted on a baseplate

Application

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

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	Hydraulics type A
HB	Hydraulics type B
Hs	Single suction impeller
DS	Two-stage pump
DV	Double volute
110	Rated motor power P_2 [kW]
4	4-pole motor

Special features/product advantages

- Efficient hydraulics for high flow rates up to 17,000 m^3/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

Description/design

- Centrifugal axially split case pump, available in single-stage and two-stage design.
- Delivered as complete unit (pump with coupling, coupling guard, motor and baseplate) or without motor or only pump hydraulics
- Shaft sealing with mechanical seal or stuffing box packing
- 2-, 4- and 6-pole motors; IE3-standard to 375 kW (IE4, IE2 on request)
- Cast baseplate: SCP 200 and higher with welded steel frame (depending on the motor power and dimensions)

Materials

- Pump housing: EN-GJL-250
- Impeller: G-CuSn10
- Shaft: X12Cr13

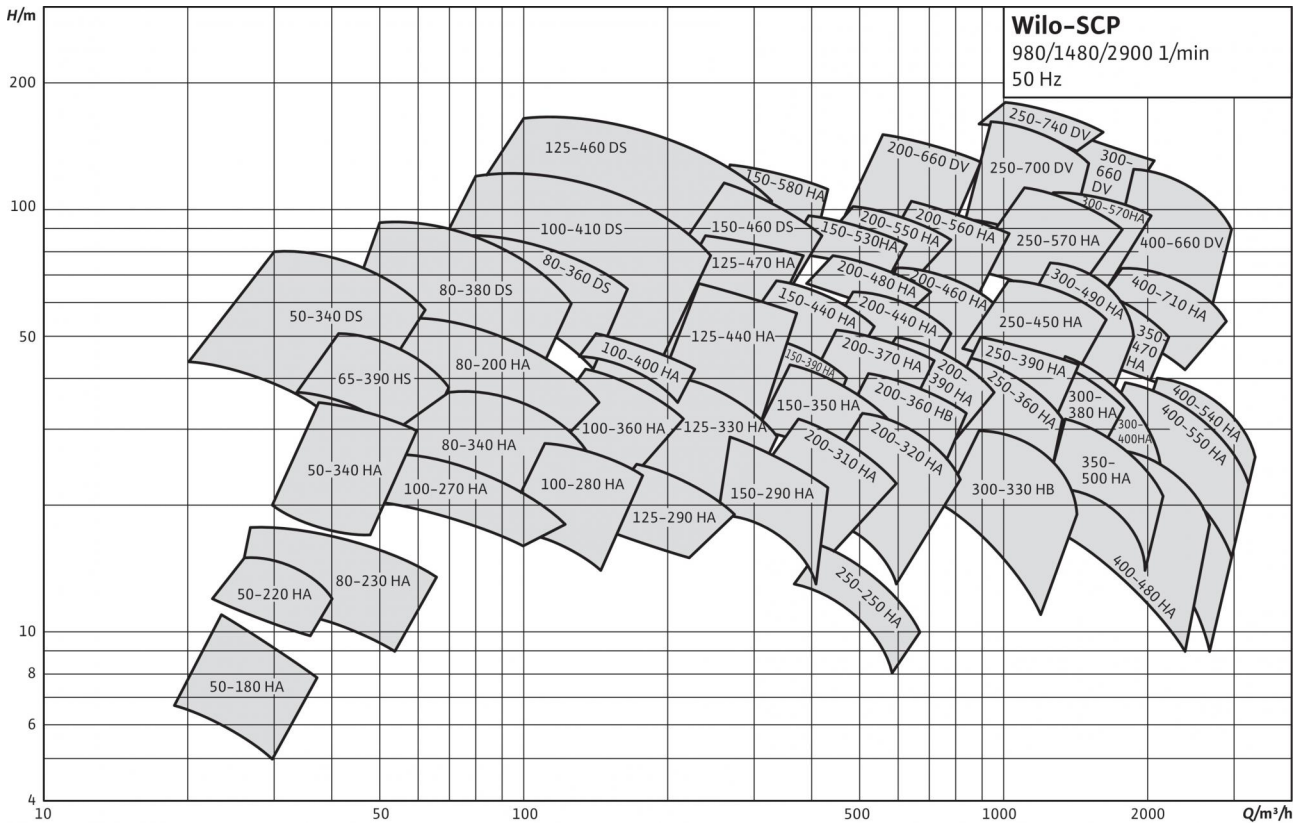
Scope of delivery

- Pump
- Installation and operating instructions

Options

- Other motor versions on request
- Higher volume flow up to 17 000 m3/h as special version
- Special motor (6000V, 10 000 V etc.)
- Special construction
  - Impeller: Bronze, grey cast iron, stainless steel
  - Housing: grey cast iron, spheroidal cast iron
- Cyclone separator (for flushing the gasket)

Duty chart: Wilo-SCP



Similar to figure

Technical data: Wilo-SCP

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 temperatures < +10 °C)	(< 40 vol.% glycol: performance check required)
Permitted field of application	
Fluid temperature - mechanical seal *T*	-8...+120 °C
Fluid temperature - stuffing box packing *T*	-8...+105 °C
Pipe connections	
Nominal connection diameters DN	On suction side: 65-500 (larger nominal diameters on requ on pressure side: 50-400 (larger nominal diameters on req
Materials	
Pump housing	EN-GJL-250
Pump housing (special version)	Ni-resist cast iron GGL-NiCr202/X6CrNiMo1810
Impeller	G-CuSn10
Impeller (special version)	
Stationary wear rings	G-CuSN10
Pump shaft	X12cr13
Pump shaft (special version)	X5CrNiMo1810
Mechanical seal	Carbon/silicon carbide/EPDM (E1)
Other mechanical seals	Stuffing box packing
Materials (American standard)	
Pump housing	A48 class 35
Pump housing (special version)	Ni-resist BS 3468 Gr 2/BS 2789 500.1
Impeller	B584 C83 600
Impeller (special version)	A48 class 35/A 743 Gr CF8M
Stationary wear rings	B584 C93 700
Pump shaft	A276 type 410
Pump shaft (special version)	BS 970 316 S16
Mechanical seal	Carbon/silicon carbide/EPDM (E1)
Other mechanical seals	Stuffing box packing
Motor/electronics	
IEC standard motor	•
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 up to 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 *n*	980 rpm
Speed of 4-pole motors *n*	1450 rpm
Speed of 2-pole motors *n*	2900 rpm
Speed control	Wilo control devices, external frequency converter (at addit

• = available, - = not available