



## **Data sheet**

## Hydraulic data

Minimum efficiency index (MEI)	≥0.7
Maximum operating pressure PN	16 bar
Min. fluid temperature $T_{\min}$	-20 °C
Max. fluid temperature $T_{\rm max}$	140 °C
Min. ambient temperature $\mathcal{T}_{\min}$	0 °C
Max. ambient temperature $T_{\sf max}$	50 °C

#### Drive

Mains connection	3~400 V, 50/60 Hz
Number of poles	4
Motor efficiency class	IE5
Power consumption $P_{1 \text{ max}}$	2600 W
Rated power P <sub>2</sub>	2.2 kW
Max current $I_{\sf max}$	4 A
Emitted interference	EN 61800-3
Interference resistance	EN 61800-3
Insulation class	F
Protection class motor	IP55
Motor protection	PTC integrated

#### Materials

Pump housing	Grey cast iron
Impeller	PPS-GF40
Shaft	Stainless steel
Shaft seal	AQ1EGG
Lantern	5.1301/EN-GJL-250 KTL-coated

## Approved liquids (other liquids upon request)

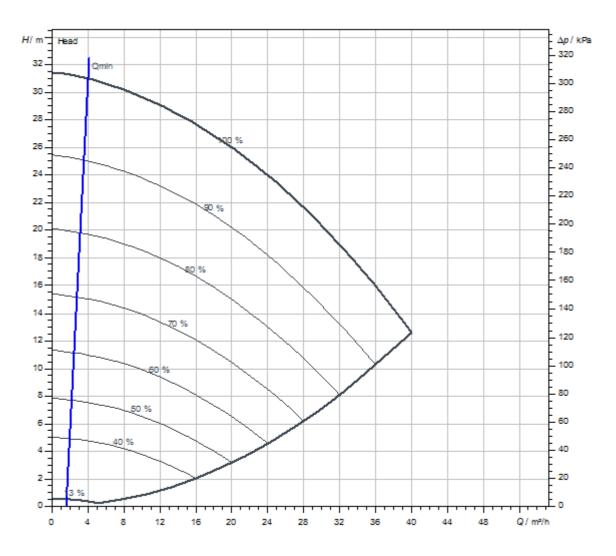
Heating water (as per VDI 2035)	yes
Heat carrier oil	Special version at additional charge
Cooling and cold water circulation systems	yes
Water-glycol mixtures (at 20 – 40 vol. % glycol and fluid temperature ≤ 40 °C)	yes

## **Installation dimensions**

Port-to-port length <i>L0</i>	280 mm
Pipe connection on the suction side <i>DNs</i>	DN 50
Pipe connection on the discharge side <i>DNd</i>	DN 50



# **Pump curves**

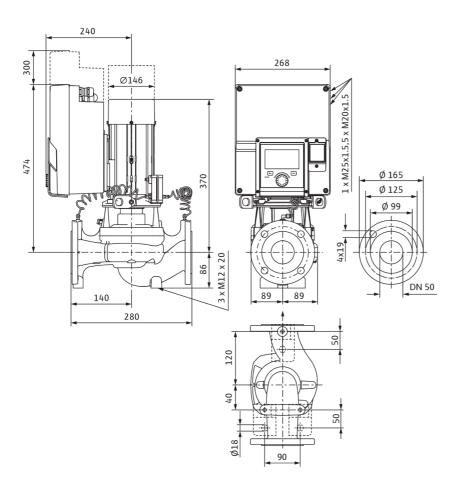


Fluid media	Water 100 %
Fluid temperature <i>T</i>	20.00 °C
speed at duty point <i>n hydr.</i> @ <i>OP</i>	4,051 1/min



# **Dimensions and dimensions drawings**

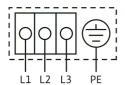
# Stratos GIGA2.0-I 50/1-30/2,2-R1

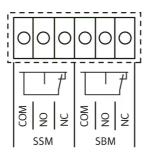


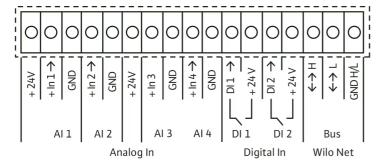


# Wiring diagram

## Wilo-Stratos GIGA2.0







Bezeichnung



#### **Tender text**

High-efficiency in-line pump with EC motor of energy efficiency class IE5 in accordance with IEC 60034-30-2, hydraulics with minimum efficiency index MEI  $\geq$  0.7 and electronic power adjustment with a glanded pump design. The pump is configured as a single-stage low-pressure centrifugal pump with flange connection and mechanical seal. The **Stratos GIGA2.0-I** has been predominantly designed for pumping heating water (acc. to VDI 2035), chilled water and water-glycol mixtures without abrasive substances in heating, air-conditioning and cooling systems.

#### Design ...-R1:

- > Single-stage low-pressure centrifugal pump with one-piece shaft in monobloc design
- > Spiral housing in in-line design (suction and discharge ports with the same flanges in a line)
- > PN 16 flange in accordance with EN 1092-2
- > Pressure measuring connections (R 1/8) for retrofitting of a differential pressure sensor (version ...-R1 without differential pressure sensor)
- > Pump housing and motor flange with cataphoretic coating as standard
- > Mechanical seal for pumping water up to Tmax. = +140 °C. A glycol admixture of 20 % to +40 % by volume is permitted up to T ≤ +40 °C. An alternative mechanical seal must be provided in water-glycol mixtures with glycol proportions > 40 % up to max. 50 % by volume and a fluid temperature of > +40 °C up to max. +120 °C or fluids other than water. When using water-glycol mixtures, the use of an S1 variant with a corresponding mechanical seal is generally recommended.
- > Connection voltages:
  - > 3~440 V ±10% 50/60 Hz; 3~400 V ±10% 50/60 Hz; 3~380 V -5% +10% 50/60 Hz
- > Version M-: 1~220 V 240 V (±10%), 50/60 Hz
- > Compliance with electromagnetic compatibility without additional measures
  - > Interference emission for residential environment according to EN 61800-3:2018
  - > Interference immunity for industrial environments according to EN 61800-3:2018

#### **Control modes:**

- > Constant speed (n-const.)
- > Constant temperature (T-const.)
- > Constant differential temperature (dT-const.)
- > User-defined PID control
- > Only possible with differential pressure sensor:
  - Permanent, automatic power adjustment to system requirements without setpoint specification Wilo Dynamic Adapt plus (factory setting).
  - > Needs-based volume flow optimisation of the feeder pump through connectivity and communication between multiple secondary pumps (Multi-Flow Adaptation).
  - > Constant volume flow (Q-const.)
- > Variable differential pressure (dp-v) with the option to set the nominal duty point Q and H
- > Constant differential pressure (dp-c)
- > Differential pressure control (dp-c) to a remote point in the pipe network (index circuit evaluator)

#### **Functions:**

- > Selection of the field of application in the **setting** assistant
- > Operating modes of twin-head pump: Main/standby operation
- > Switchover between heating and cooling mode (automatic, external or manual)
- Ability to save and restore configured pump settings (3 restoration points)
- > Fault and warning messages shown in plain text with advice on resolving the issue
- > Integrated full motor protection
- > Only possible with differential pressure sensor:
  - > Heat quantity measurement
  - > Cooling quantity measurement
  - > Adjustable volume flow limiter using the Q-Limit function ( $Q_{min.}$  and  $Q_{max.}$ )
  - > Pump automatically deactivates when no flow is detected (No-Flow Stop)
  - > Efficiency-optimised **parallel operation** for dp-c and dp-v

# Display in the "Home screen" of the graphic display:

- > Control mode currently set
- > Current setpoint
- > Current volume flow (only if a differential pressure sensor is connected)
- > Current fluid temperature (only if temperature sensor is connected)
- > Current power consumption
- > Cumulative electric consumption



#### Version:

- > 4 configurable analogue inputs: 0-10 V, 2-10 V, 0-20 mA, 4-20 mA and commercially available PT1000 (only on two analogue inputs); +24 V DC power supply
- > 2 configurable **digital inputs** (Ext. OFF, Ext. Min, Ext. Max, heating/cooling, manual override (uncoupled from building automation), operation lock (key lock and remote operation configuration protection))
- > 2 configurable signal relays for run signals and fault messages
- Slot for Wilo-CIF modules with interfaces for building automation (BA) (optional accessories: CIF modules Modbus RTU, BACnet MS/TP, LON, PLR, CAN)
- > **Wilo Net** as a Wilo system bus for communication between Wilo products, e.g. Multi-Flow Adaptation; dual-pump operation
- > **Automatic emergency operation** with definable pump speed for exceptional circumstances, e.g. bus communication or sensor value malfunction
- > Rotatable, graphic colour display (4.3 inches) with one button manual operation level
- > **Bluetooth interface** via Wilo-Smart Connect module RT
- Use the Wilo-Assistant app to read and set operating data and -among other things- set up a commissioning protocol through the Bluetooth interface
- > Integrated dual-pump management (twin-head pumps are prewired) when using 2 single pumps as two-pump unit (connection via Wilo Net)
- > Cable break detection when using an analogue signal (in connection with 2 10 V or 4 20 mA)
- > **Time stamp** for error/warnings and historical operating data
- > Continuous operating data memory
- > Standard condensate drainage holes in the motor housing (closed upon delivery)
- > Air vent valve on the lantern

#### **Operating Data**

Min. fluid temperature $T_{\min}$	-20 °C
Max. fluid temperature $T_{\rm max}$	140 °C
Min. ambient temperature $\mathcal{T}_{\min}$	0 °C
Max. ambient temperature $T_{\rm max}$	50 °C
Maximum operating pressure PN	16 bar
Minimum efficiency index (MEI)	≥0.7

#### Scope of delivery:

- > Pump
- > Wilo-Smart Connect module BT
- > Threaded cable glands with sealing inserts
- > Installation and operating instructions and declaration of conformity

#### **Accessories** must be ordered separately:

3 mounting brackets with fixation material for installation on a base

- > Blind flanges for twin-head pump housing
- > Installation aid for mechanical seal (incl. mounting bolts)
- > For connection to building automation:
  - > CIF module PLR
  - > CIF module LON
  - > CIF module BACnet MS/TP
  - > CIF module Modbus RTU
  - > CIF module CANopen
  - > CIF module Ethernet Multi-protocol (Modbus TCP, BACnet/IP)
  - > Connection M12 RJ45 CIF Ethernet
- > Differential pressure sensor DPS 2 ... 10 V
- > Differential pressure sensor DPS 4 ... 20 mA
- > Temperature sensor PT1000 AA
- > Sensor sleeves for the installation of temperature sensors in the pipe



## Drive

Mains connection	3~400 V, 50/60 Hz
Motor efficiency class	IE5
Power consumption $P_{1 \text{ max}}$	2600 W
Rated power P <sub>2</sub>	2.2 kW
Max current $I_{\text{max}}$	4 A
Max. speed $n_{\text{max}}$	4050 1/min
Emitted interference	EN 61800-3
Interference resistance	EN 61800-3
Insulation class	F
Protection class motor	IP55
Motor protection	PTC integrated

## Materials

Pump housing	Grey cast iron
Impeller	PPS-GF40
Shaft	Stainless steel
Shaft seal	AQ1EGG
Lantern	5.1301/EN-GJL-250 KTL-coated

### **Installation dimensions**

Pipe connection on the suction side <i>DNs</i>	DN 50
Pipe connection on the discharge side <i>DNd</i>	DN 50
Port-to-port length <i>L0</i>	280 mm

## **Ordering information**

Brand	Wilo
Product description	Stratos GIGA2.0-I 50/1-30/2,2-R1
Net weight, approx. <i>m</i>	37 kg
Article number	2204862 🔼



# **Installation type**

# Continuous, infinitely variable control, differential pressure-sensitive CCe-HVAC system

CCe-HVAC system	
CCe-HVAC system 1 x 1.5	2536670
CCe-HVAC system 2 x 1.5	2536671
CCe-HVAC system 3 x 1.5	2536672
CCe-HVAC system 4 x 1.5	2536673
CCe-HVAC system 5 x 1.5	2536674
CCe-HVAC system 6 x 1.5	2536675
Antenna GSM/GPRS	
D-network dual-band antenna with 3 m cable	2533862
D-network tri-band antenna 10 m cable	2533863
D-network tri-band antenna 15 m cable	2533864
Outdoor temperature sensor Pt 100	
Outdoor temperature sensor Pt 100	2533772
DDG impulse selector	
DDG impulse selector	2533770
BMS base module	
BMS base module	2533800
CC communication module BACnet	
CC-communication module BACnet IP (slave)	2537051
CC-communication module BACnet MS/TP (slave)	2537050
Communication module LON	
Communication module LON	2533868
Communication module ModBus	
Communication module Modbus RTU	2533869
Communication module Profibus	
Communication module Profibus DP	2533866
Communication module CC	



Comm	unication	module	GSM

Communication module GSM	
GSM module	2533861
Pump signalling module	
Signalling module pump 1-2	2533812
Signalling module pump 3-6	2533836
Signal converter retrofit kit	
Signal converter 0-10 V / 0-20 mA	2534992
Connection cable control modules/signalling modules	
Control modules connecting cable	2533790
Signalling modules connecting cable	2533890
DDG transducer	
DDG transducer	501771990
DDG power supply unit	
DDG power supply unit	501865293
Continuous, infinitely variable control, temperature-depen	ndent CCe-HVAC system
CCe-HVAC system	
CCe-HVAC system 1 x 1.5	2536670
CCe-HVAC system 2 x 1.5	2536671
CCe-HVAC system 3 x 1.5	2536672
CCe-HVAC system 4 x 1.5	2536673
CCe-HVAC system 5 x 1.5	2536674
CCe-HVAC system 6 x 1.5	2536675
Antenna GSM/GPRS	
D-network dual-band antenna with 3 m cable	2533862
D-network tri-band antenna 10 m cable	2533863
D-network tri-band antenna 15 m cable	2533864
Outdoor temperature sensor Pt 100	
Outdoor temperature sensor Pt 100	2533772
BMS base module	



BMS base module	2533800
CC communication module BACnet	
CC-communication module BACnet IP (slave)	2537051
CC-communication module BACnet MS/TP (slave)	2537050
Communication module LON	
Communication module LON	2533868
Communication module ModBus	
Communication module Modbus RTU	2533869
Communication module Profibus	
Communication module Profibus DP	2533866
Communication module CC	
CC communication module	2533850
Communication module GSM	
GSM module	2533861
Pump signalling module	
Signalling module pump 1-2	2533812
Signalling module pump 3-6	2533836
Signal converter retrofit kit	
Signal converter 0-10 V / 0-20 mA	2534992
Temperature module	
Temperature module for systems with 1-3 pumps	2534991
Temperature module for systems with 4-6 pumps	2533771
Connection cable control modules/signalling modules	
Control modules connecting cable	2533790
Signalling modules connecting cable	2533890
Continuous, infinitely variable control, differential pressure-sens	itive SCe-HVAC system
SCe-HVAC system	
SCe-HVAC system 1x10A-WM	2545254
SCe-HVAC system 2x10A-WM	2545255
SCe-HVAC system 3x10A-WM	2545256



Denetwork tri-band antenna 16 m cable 55386  Denetwork tri-band antenna 16 m cable 55386  Dutdoor temperature sensor Pt 100  Outdoor temperature sensor Pt 100  Outdoor temperature sensor Pt 100  Doli impulse selector 523377  Communication module LON (SC) 53397  Communication module LON (SC) 55804  SC communication module BACnet MS/TP (slave) 53804  SC communication module BACnet MS/TP (slave) 53804  SC communication module GSM (SC) 54923  Dommunication module GSM (SC) 54923  Signalling module pump 1-2 53838  SC-HVAC signal board 55444C signal board 54444C signal board 54444C sign	SCe-HVAC system 4x10A-WM	2545257
Denetwork dual-hand antenna vimit 3 m cable 25386 Denetwork tri-hand antenna vimit 3 m cable 25386 Denetwork tri-hand antenna 15 m cable 25386 Denetwork tri-hand antenna 15 m cable 25386 Dutdoor temperature sensor Pt 100 Dutdoor temperature sensor for Y-piece application	Antenna GSM/GPRS	
Ductdoor temperature sensor Pt 100  Ductdoor temperature sensor Pt 100  Did impulse selector  Did impulse selector  Dog impulse selector  Communication module LON (SC)  Communication module BACnet  SC communication module GSM (SC)  Communicatio	D-network dual-band antenna with 3 m cable	2533862
Ductdoor temperature sensor Pt 100  DDG impulse selector  DDG impulse selector  DDG impulse selector  Communication module LON (SC)  Communication module BACnet  SC communication module BACnet  SC communication module BACnet  SC communication module BACnet  SC communication module GSM (SC)  Communication module GSM (SC)  Communication module GSM (SC)  Communication module GSM (SC)  Sequal ling module pump 3-2  Signal ling module pump 3-2  Signal ling module pump 3-4  SC CHVAC signal board  SC CHVAC signal board  DDG transducer  DDG transducer  DDG power supply unit  DDG power supply unit  Extension for DDG-kit  Continuous, infinitely variable control, temperature-dependent SCe-HVAC system  SC-HVAC system b-100-WM	D-network tri-band antenna 10 m cable	
Outdoor temperature sensor Pt 100  DDG impulse selector  Communication module LON (SC)  Communication module BACnet  SC communication module BACnet  SC communication module BACnet MS/TP (slave)  Communication module BACnet MS/TP (slave)  Communication module BACnet MS/TP (slave)  Communication module GSM (SC)  Z5384  Communication module GSM (SC)  Z5384  Communication module GSM (SC)  Z5384  Z	D-network tri-band antenna 15 m cable	2533864
DDG impulse selector  Communication module LON (SC)  Communication module BACnet  SC communication module BACnet  SC communication module BACnet MS/TP (slave)  Communication module GSM (SC)  Communication module BACnet MS/TP (slave)  Communication modul	Outdoor temperature sensor Pt 100	
DDG impulse selector  Communication module LON (SC)  Communication module LON (SC)  Communication module BACnet MS/TP (slave)  Communication module BACnet MS/TP (slave)  Communication module GSM (SC)  Communication module GSM (SC)  Communication module GSM (SC)  Pump signalling module  Signalling module pump 1-2  Signalling module pump 3-6  CS-CHVAC signal board  SC-HVAC signal board  CS-HVAC signal board  DDG transducer  DDG transducer  DDG transducer  DDG gower supply unit  DDG power supply unit  Extension kit differential pressure sensor for Y-piece application  Extension kit differential pressure sensor for Y-piece application  Extension for DDG-kit  Continuous, infinitely variable control, temperature-dependent SCe-HVAC system  SCe-HVAC system  SCE-HVAC system 1x10A-WM	Outdoor temperature sensor Pt 100	2533772
Communication module LON (SC)  Communication module BACnet SC-communication module BACnet MS/TP (slave)  Communication module BACnet MS/TP (slave)  Communication module GSM (SC)  Communication module GSM (SC)  Communication module GSM (SC)  Pump signalling module  Signalling module pump 1-2  Signalling module pump 3-6  SC-HVAC signal board  Control pump Signal board  Control pump Signal board  Control pump Signal board  SC-HVAC signal board  SC-HVAC signal board  Control pump Signal board  SC-HVAC signal board  Control pump Signal board  SC-HVAC signal pump Signal board  Control pump Signal board  SC-HVAC signal board  Control pump Signal board  SC-HVAC signal board  SC-HVAC signal board  SC-HVAC signal board  SC-HVAC system Signal board  Control pump Signal board  SC-HVAC system Signal b	DDG impulse selector	
Communication module BACnet  SC-communication module BACnet MS/TP (slave)  Communication module BACnet MS/TP (slave)  Communication module GSM (SC)  Communication module GSM (SC)  Communication module GSM (SC)  Pump signalling module  Signalling module pump 1-2  Signalling module pump 3-6  CC-HVAC signal board  SC-HVAC signal board  CC-HVAC signal board  DDG transducer  DDG power supply unit  DDG power supply unit  Extension kit differential pressure sensor for Y-piece application  Extension kit differential pressure sensor for Y-piece application  Extension for DDG-kit  Continuous, infinitely variable control, temperature-dependent SCe-HVAC system  SCe-HVAC system 1x10A-WM  25525	DDG impulse selector	2533770
SC communication module BACnet MS/TP (stave)  Communication module GSM (SC)  Communication module GSM (SC)  Communication module GSM (SC)  254221  Pump signalling module  Signalling module pump 1-2  Signalling module pump 3-6  SC-HVAC signal board  SC-HVAC signal board  211964  DDG transducer  DDG transducer  DDG transducer  DDG power supply unit  SOB power supply unit  Extension kit differential pressure sensor for Y-piece application  Extension for DDG-kit  Continuous, infinitely variable control, temperature-dependent SCe-HVAC system  SCe-HVAC system  SCE-HVAC system 1x10A-WM  254525	Communication module LON (SC)	
SC-communication module BACnet MS/TP (slave)  Communication module GSM (SC)  Communication module GSM (SC)  Pump signalling module  Signalling module pump 1-2  Signalling module pump 3-6  SC-HVAC signal board  SOBG transducer  DDG transducer  DDG power supply unit  Extension kit differential pressure sensor for Y-piece application  Extension kit differential pressure sensor for Y-piece application  Extension for DDG-kit  Continuous, infinitely variable control, temperature-dependent SCe-HVAC system  SCe-HVAC system  SCe-HVAC system tx10A-WM  254525	Communication module LON (SC)	2538243
Communication module GSM (SC)  Communication module GSM (SC)  Pump signalling module  Signalling module pump 1-2  Signalling module pump 3-6  SC-HVAC signal board  SC-HVAC signal board  SC-HVAC signal board  211964  DDG transducer  DDG transducer  DDG power supply unit  Extension kit differential pressure sensor for Y-piece application  Extension kit differential pressure sensor for Y-piece application  Extension kit differential pressure sensor for Y-piece application  Extension for DDG-kit  Continuous, infinitely variable control, temperature-dependent SCe-HVAC system  SCe-HVAC system  SCE-HVAC system 1x10A-WM	SC communication module BACnet	
Communication module GSM (SC)  Pump signalling module  Signalling module pump 1-2  Signalling module pump 3-6  SC-HVAC signal board  SC-HVAC signal board  DDG transducer  DDG transducer  DDG power supply unit  Extension kit differential pressure sensor for Y-piece application  Extension for DDG-kit  Continuous, infinitely variable control, temperature-dependent SCe-HVAC system  SCE-HVAC system  SCE-HVAC system 1x10A-WM  254223	SC-communication module BACnet MS/TP (slave)	2538242
Pump signalling module pump 1-2 253381 Signalling module pump 3-6 253383 SC-HVAC signal board 211964 DDG transducer DDG transducer 5017719 DDG power supply unit 5018652 Extension kit differential pressure sensor for Y-piece application Extension for DDG-kit 216698 COntinuous, infinitely variable control, temperature-dependent SCe-HVAC system SCE-HVAC system 1x10A-WM 254525	Communication module GSM (SC)	
Signalling module pump 1-2  Signalling module pump 3-6  SC-HVAC signal board  SC-HVAC signal board  211964  DDG transducer  DDG transducer  DDG power supply unit  DDG power supply unit  Extension kit differential pressure sensor for Y-piece application  Extension for DDG-kit  Continuous, infinitely variable control, temperature-dependent SCe-HVAC system  SCe-HVAC system  SCe-HVAC system 1x10A-WM  254525	Communication module GSM (SC)	2542216
Signalling module pump 3-6  SC-HVAC signal board  SC-HVAC signal board  211964  DDG transducer  DDG transducer  DDG power supply unit  DDG power supply unit  Extension kit differential pressure sensor for Y-piece application  Extension for DDG-kit  Continuous, infinitely variable control, temperature-dependent SCe-HVAC system  SCe-HVAC system  SCe-HVAC system 1x10A-WM	Pump signalling module	
SC-HVAC signal board  SC-HVAC signal board  211964  DDG transducer  DDG transducer  DDG power supply unit  DDG power supply unit  Extension kit differential pressure sensor for Y-piece application  Extension for DDG-kit  Continuous, infinitely variable control, temperature-dependent SCe-HVAC system  SCe-HVAC system  SCe-HVAC system 1x10A-WM  254525	Signalling module pump 1-2	2533812
DDG transducer  DDG transducer  DDG power supply unit  DDG power supply unit  Extension kit differential pressure sensor for Y-piece application  Extension for DDG-kit  Continuous, infinitely variable control, temperature-dependent SCe-HVAC system  SCe-HVAC system  SCe-HVAC system 1x10A-WM	Signalling module pump 3-6	2533836
DDG transducer  DDG transducer  DDG power supply unit  DDG power supply unit  Extension kit differential pressure sensor for Y-piece application  Extension for DDG-kit  Continuous, infinitely variable control, temperature-dependent SCe-HVAC system  SCe-HVAC system  SCe-HVAC system 1x10A-WM  254525	SC-HVAC signal board	
DDG transducer  DDG power supply unit  Extension kit differential pressure sensor for Y-piece application  Extension for DDG-kit  Continuous, infinitely variable control, temperature-dependent SCe-HVAC system  SCe-HVAC system  SCe-HVAC system 1x10A-WM	SC-HVAC signal board	2119646
DDG power supply unit  Extension kit differential pressure sensor for Y-piece application  Extension for DDG-kit  Continuous, infinitely variable control, temperature-dependent SCe-HVAC system  SCe-HVAC system 1x10A-WM  254525	DDG transducer	
Extension kit differential pressure sensor for Y-piece application  Extension for DDG-kit  Continuous, infinitely variable control, temperature-dependent SCe-HVAC system  SCe-HVAC system  SCe-HVAC system 1x10A-WM	DDG transducer	501771990
Extension kit differential pressure sensor for Y-piece application  Extension for DDG-kit  Continuous, infinitely variable control, temperature-dependent SCe-HVAC system  SCe-HVAC system  SCe-HVAC system 1x10A-WM	DDG power supply unit	
Continuous, infinitely variable control, temperature-dependent SCe-HVAC system  SCe-HVAC system  SCe-HVAC system 1x10A-WM	DDG power supply unit	501865293
Continuous, infinitely variable control, temperature-dependent SCe-HVAC system  SCe-HVAC system  SCe-HVAC system 1x10A-WM	Extension kit differential pressure sensor for Y-piece application	
SCe-HVAC system  SCe-HVAC system 1x10A-WM  254525	Extension for DDG-kit	2166098
SCe-HVAC system 1x10A-WM 254525	Continuous, infinitely variable control, temperature-dependent SCe-HVAC syste	m
	SCe-HVAC system	
SCe-HVAC system 2x10A-WM	SCe-HVAC system 1x10A-WM	2545254
	SCe-HVAC system 2x10A-WM	2545255



SCe-HVAC system 3x10A-WM	2545256
SCe-HVAC system 4x10A-WM	2545257
Antenna GSM/GPRS	
D-network dual-band antenna with 3 m cable	2533862
D-network tri-band antenna 10 m cable	2533863
D-network tri-band antenna 15 m cable	2533864
Outdoor temperature sensor Pt 100	
Outdoor temperature sensor Pt 100	2533772
Communication module LON (SC)	
Communication module LON (SC)	2538243
SC communication module BACnet	
SC-communication module BACnet MS/TP (slave)	2538242
Communication module GSM (SC)	
Communication module GSM (SC)	2542216
Pump signalling module	
Signalling module pump 1-2	
Signalling module pump 3-6	2533836
SC-HVAC signal board	
SC-HVAC signal board	2119646