



Similar to figure

Data sheet

Hydraulic data

Minimum efficiency index (MEI)	≥0.4
Maximum operating pressure PN	10 bar
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	120 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Mains connection	3~400 V, 50 Hz
Number of poles	2
Voltage tolerance	±10 %
Motor efficiency class	IE3
Rated power P_2	3 kW
Rated current I_N	6.15 A
Rated speed n	2900 1/min
Power factor $\cos \varphi_{100}$	0.79
Motor efficiency 50% $\eta_M 50\%$	82.5 %
Motor efficiency 75% $\eta_M 75\%$	84.6 %
Motor efficiency 100% $\eta_M 100\%$	87.1 %
Motor winding up to 3 kW	-
Motor winding from 4 kW	-
Insulation class	F
Protection class motor	IP55
Integrated full motor protection	-

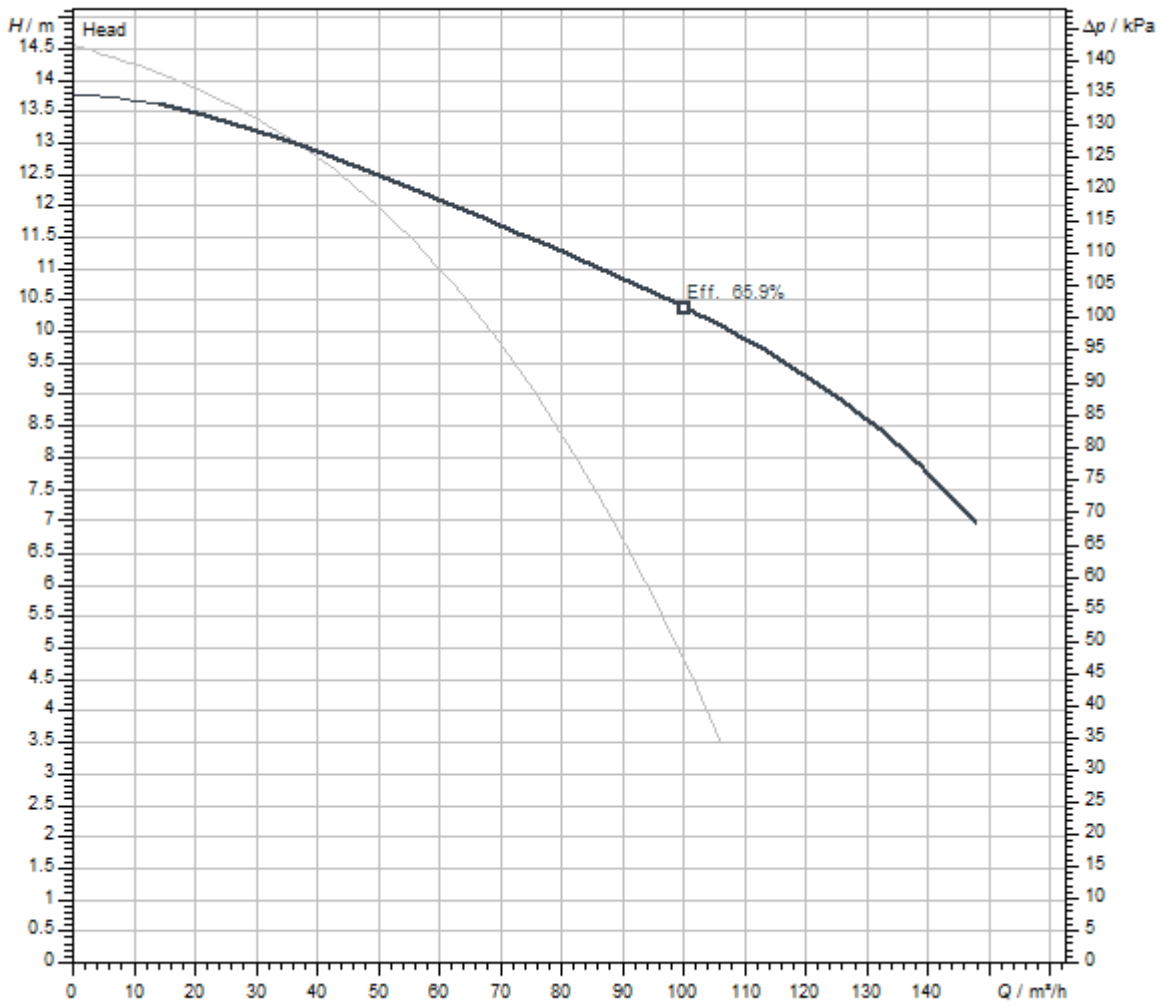
Materials

Pump housing	Grey cast iron
Impeller	PPE/PS-GF30
Shaft	Stainless steel
Mechanical seal	AQ1EGG
Lantern	Grey cast iron

Installation dimensions

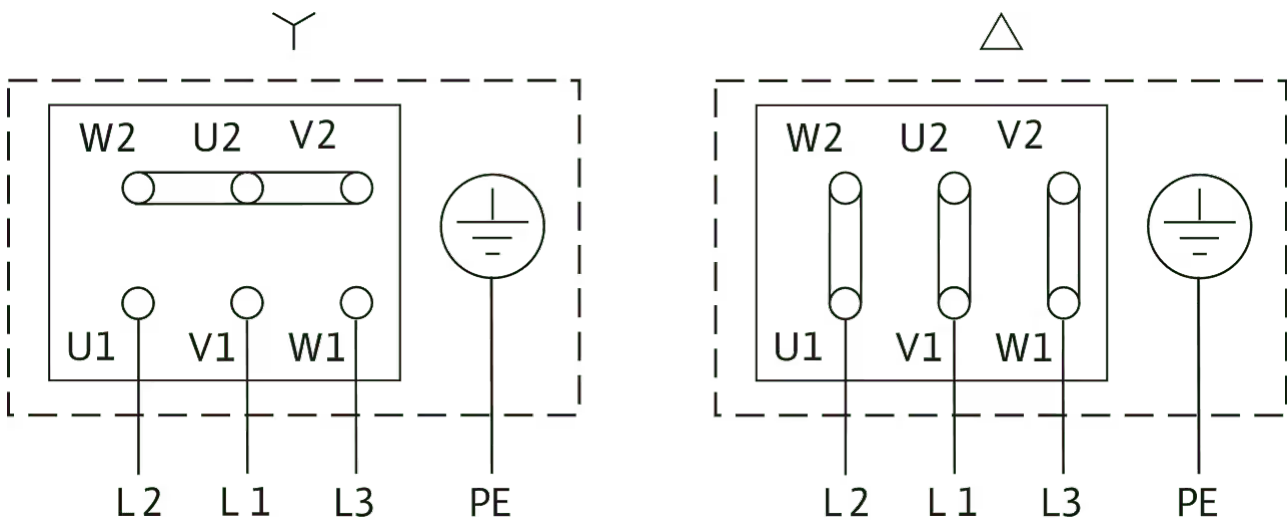
Pipe connection on the suction side DN_s	DN 80
Pipe connection on the discharge side DN_d	DN 80
Port-to-port length L_0	360 mm

Pump curves



Fluid media	Water 100 %
Fluid temperature T	20.00 °C
speed at duty point $n_{hydr. @ OP}$	2,900 1/min
Impeller diameter $d_{imp.}$	108 mm

Wiring diagram



Δ: Connection diagram delta connection

Y: Connection diagram star connection

Motor protection switch required on-site. Check the direction of rotation! To change the direction of rotation, exchange any two phases.

$P_2 \leq 3$ kW 3~400 V Y

3~230 V Δ

$P_2 \geq 4$ kW 3~690 V Y

3~400 V Δ

After removing the bridges, Y-Δ start is possible.

Ordering information

Product data

Brand	Wilo
Product description	VeroTwin-DPL 80/105-3/2
Article number	2121272
EAN number	4048482215556
Colour	Green
Minimum order quantity	1
Date of sales availability	2015-09-01

Packaging

Packaging type	Euro pallet
Packaging property	Transport packaging
Pieces per pallet	1
Number per layer	1

Dimension, weight

Length with packaging	1200 mm
Length <i>L</i>	525 mm
Height with packaging	504 mm
Height <i>H</i>	360 mm
Width with packaging	800 mm
Width <i>W</i>	601 mm
Gross weight, approx. <i>m</i>	117 kg
Net weight, approx. <i>m</i>	90 kg

Tender text

In-line twin-head pump with two single-stage glanded centrifugal pumps in the same housing with switchover valve in the pressure port. Pump with compact in-line design with directly flanged three-phase current motor and one-piece shafts or with lanterns and standard motors (version N) rigidly connected by couplings.

The DPL series is suitable for pipe installation or installation on a base. Mounting brackets are available as accessories. With force-flushed circulation,

bidirectional bellows mechanical seals and cavitation-reducing plastic impeller.

Flanges with pressure measuring connections R 1/8. The pump housing and lantern are cathophoretic-coated.

The motor terminal box can be made of metal or plastic. If a metal terminal box is absolutely necessary, please order the appropriate special variant.

Operating Data

Min. fluid temperature T_{\min}	-20 °C
Max. fluid temperature T_{\max}	120 °C
Min. ambient temperature T_{\min}	-15 °C
Max. ambient temperature T_{\max}	40 °C
Maximum operating pressure PN	10 bar
Minimum efficiency index (MEI)	≥ 0.4

Motor data

Motor efficiency class	IE3
Mains connection	3~400 V, 50 Hz
Voltage tolerance	± 10 %
Rated power P_2	3000 W
Rated speed n	2900 1/min
Rated current I_N	6.15 A
Power factor $\cos \varphi_{100}$	0.79
Motor efficiency 50% $\eta_M 50\%$	82.5 %
Motor efficiency 75% $\eta_M 75\%$	84.6 %
Motor efficiency 100% $\eta_M 100\%$	87.1 %
Insulation class	F
Protection class	IP55


Materials

Pump housing	Grey cast iron
Impeller	PPE/PS-GF30
Shaft	Stainless steel
Shaft seal	AQ1EGG
Lantern	Grey cast iron

Installation dimensions

Pipe connection on the suction side DN_s	DN 80
Pipe connection on the discharge side DN_d	DN 80
Port-to-port length L_0	360 mm

Ordering information

Brand	Wilo
Product description	VeroTwin-DPL 80/105-3/2
Net weight, approx. m	90 kg
Article number	2121272 

Installation type

Continuous, infinitely variable control, differential pressure-sensitive CC-HVAC system

CC-HVAC system

CC-HVAC-System 1x6.3A-T34-DOL-FC-WM	2527818
CC-HVAC-System 2x6.3A-T34-DOL-FC-WM	2527819
CC-HVAC-System 3x6.3A-T34-DOL-FC-WM	2527820

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
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DDG impulse selector

DDG impulse selector	2533770
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BMS base module

BMS base module	2533800
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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
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Communication module ModBus

Communication module Modbus RTU	2533869
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Communication module Profibus

Communication module Profibus DP	2533866
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Communication module GSM

GSM module	2533861
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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
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Connection cable control modules/signalling modules

Control modules connecting cable	2533790
Signalling modules connecting cable	2533890

DDG (4-20mA)

Wilo-DDG 10 Signal Trans.(4-20mA)2G VP.	2136454
Wilo-DDG 100 Signal Trans.(4-20mA)	2211740
Wilo-DDG 20 Signal Trans.(4-20mA)2G VP.	2136456
Wilo-DDG 40 Signal Trans.(4-20mA)2G VP.	2136458
Wilo-DDG 60 Signal Trans.(4-20mA)2G VP.	2136460

PTC thermistor tripping unit

PTC thermistor tripping unit	509275993
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Continuous, infinitely variable control, temperature-dependent CC-HVAC system

CC-HVAC system

CC-HVAC-System 1x6.3A-T34-DOL-FC-WM	2527818
CC-HVAC-System 2x6.3A-T34-DOL-FC-WM	2527819
CC-HVAC-System 3x6.3A-T34-DOL-FC-WM	2527820

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
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BMS base module

BMS base module	2533800
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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
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Communication module ModBus

Communication module Modbus RTU	2533869
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Communication module Profibus

Communication module Profibus DP	2533866
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Communication module GSM

GSM module	2533861
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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
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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

PTC thermistor tripping unit

PTC thermistor tripping unit	509275993
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Continuous, infinitely variable control, differential pressure-sensitive SC-HVAC system

SC/SC-FC-HVAC system

SC-FC-HVAC system 1x6,3A-FC-WM (direct starting)	2545438
SC-FC-HVAC system 2x6,3A-FC-WM (direct starting)	2545439
SC-FC-HVAC system 3x6,3A-FC-WM (direct starting)	2545440
SC-FC-HVAC system 4x6,3A-FC-WM (direct starting)	2545441
SC-HVAC system 1x6,3A-WM (direct starting)	2545322
SC-HVAC system 2x6,3A-WM (direct starting)	2545323
SC-HVAC system 3x6,3A-WM (direct starting)	2545324
SC-HVAC system 4x6,3A-WM (direct starting)	2545325

Antenna GSM/GPRS

D-network dual-band antenna with 3 m cable	2533862
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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
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DDG impulse selector

DDG impulse selector	2533770
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Communication module LON (SC)

Communication module LON (SC)	2538243
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SC communication module BACnet

SC-communication module BACnet MS/TP (slave)	2538242
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Communication module GSM (SC)

Communication module GSM (SC)	2542216
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Pump signalling module

Signalling module pump 1-2	2533812
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Signalling module pump 3-6	2533836
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SC-HVAC signal board

SC-HVAC signal board	2119646
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DDG (4-20mA)

Wilo-DDG 10 Signal Trans.(4-20mA)2G VP.	2136454
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Wilo-DDG 100 Signal Trans.(4-20mA)	2211740
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Wilo-DDG 20 Signal Trans.(4-20mA)2G VP.	2136456
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Wilo-DDG 40 Signal Trans.(4-20mA)2G VP.	2136458
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Wilo-DDG 60 Signal Trans.(4-20mA)2G VP.	2136460
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PTC thermistor tripping unit

PTC thermistor tripping unit	509275993
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Continuous, infinitely variable control, temperature-dependent SC-HVAC system

SC/SC-FC-HVAC system

SC-FC-HVAC system 1x6,3A-FC-WM (direct starting)	2545438
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SC-FC-HVAC system 2x6,3A-FC-WM (direct starting)	2545439
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SC-FC-HVAC system 3x6,3A-FC-WM (direct starting)	2545440
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SC-FC-HVAC system 4x6,3A-FC-WM (direct starting)	2545441
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SC-HVAC system 1x6,3A-WM (direct starting)	2545322
SC-HVAC system 2x6,3A-WM (direct starting)	2545323
SC-HVAC system 3x6,3A-WM (direct starting)	2545324
SC-HVAC system 4x6,3A-WM (direct starting)	2545325

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
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Communication module LON (SC)

Communication module LON (SC)	2538243
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SC communication module BACnet

SC-communication module BACnet MS/TP (slave)	2538242
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Communication module GSM (SC)

Communication module GSM (SC)	2542216
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Pump signalling module

Signalling module pump 1-2	2533812
Signalling module pump 3-6	2533836

SC-HVAC signal board

SC-HVAC signal board	2119646
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PTC thermistor tripping unit

PTC thermistor tripping unit	509275993
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Mechanical accessories

Pipe installation, adapter fitting

Adapter set glanded pumps

Adapter A80-50 Set, DN 80x50mm, PN 16	2085212
Adapter A80-60 SET, DN 80x60mm, PN 16	2085213
Adapter A80-10 Set, DN 80x10mm, PN 16	2085472

Intermediate flange connecting piece F

Intermediate flange pieces F 30, DN 80x25mm, PN 10/16	110681991
Intermediate flange pieces F 42, DN 80x140mm, PN 10/16	2101158

Wall fixation/installation on a base

Mounting bracket kit

Mounting bracket F 3-12 SET	2040967
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Maintenance/replacement mechanical accessories

Blind flanges, glanded pump

Blind flange P188 set	2023964
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Electrical accessories

Pump control

Wilo-EFC

EFC3 3x380-480V 50/60Hz IP55	2193435
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Pump control/accessories

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
SMA/FME adapter	2545548

BMS base module

BMS base module	2533800
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CC communication module BACnet

CC-communication module BACnet MS/TP (slave)	2537050
CC-communication module BACnet IP (slave)	2537051

Communication module CC

CC communication module	2533850
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Communication module GSM

GSM module	2533861
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Communication module GSM (SC)

Communication module GSM (SC)	2542216
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Communication module LON

Communication module LON	2533868
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Communication module LON (SC)

Communication module LON (SC)	2538243
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Communication module ModBus

Communication module Modbus RTU	2533869
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Communication module Profibus

Communication module Profibus DP	2533866
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Connection cable control modules/signalling modules

Control modules connecting cable	2533790
Signalling modules connecting cable	2533890

DDG impulse selector

DDG impulse selector	2533770
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Outdoor temperature sensor Pt 100

Outdoor temperature sensor Pt 100	2533772
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Output filter EFC (150-500 m cable length)

7.5 A sin IP54 Wilo-EFC filter	6084561
8 A sin IP00 Wilo-EFC filter	6084576
8 A sin IP20 Wilo-EFC filter	6084902

Pump signalling module

Signalling module pump 1-2	2533812
Signalling module pump 3-6	2533836

SC communication module BACnet

SC-communication module BACnet MS/TP (slave)	2538242
BACnet IP SC communication module	2553366

SC-HVAC signal board

SC-HVAC signal board	2119646
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Signal converter retrofit kit

Signal converter 0-10 V / 0-20 mA	2534992
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Temperature module

Temperature module for systems with 4-6 pumps	2533771
Temperature module for systems with 1-3 pumps	2534991

Pump control/Comfort control system

CC-HVAC system

CC-HVAC-System 1x6.3A-T34-DOL-FC-WM	2527818
CC-HVAC-System 2x6.3A-T34-DOL-FC-WM	2527819
CC-HVAC-System 3x6.3A-T34-DOL-FC-WM	2527820

Pump control/Smart control system

SC/SC-FC-HVAC system

SC-HVAC system 1x6,3A-WM (direct starting)	2545322
SC-HVAC system 2x6,3A-WM (direct starting)	2545323
SC-HVAC system 3x6,3A-WM (direct starting)	2545324
SC-HVAC system 4x6,3A-WM (direct starting)	2545325
SC-FC-HVAC system 1x6,3A-FC-WM (direct starting)	2545438
SC-FC-HVAC system 2x6,3A-FC-WM (direct starting)	2545439
SC-FC-HVAC system 3x6,3A-FC-WM (direct starting)	2545440
SC-FC-HVAC system 4x6,3A-FC-WM (direct starting)	2545441

Differential pressure detection

DDG (4-20mA)

Wilo-DDG 10 Signal Trans.(4-20mA)2G VP.	2136454
Wilo-DDG 20 Signal Trans.(4-20mA)2G VP.	2136456
Wilo-DDG 40 Signal Trans.(4-20mA)2G VP.	2136458
Wilo-DDG 60 Signal Trans.(4-20mA)2G VP.	2136460
Wilo-DDG 100 Signal Trans.(4-20mA)	2211740

Motor protection

PTC thermistor tripping unit

PTC thermistor tripping unit	509275993
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Surcharge for thermistor sensor (dual pumps)

Surcharge for thermistor sensor (dual pumps) <7.5 kW	KLF_7_DP
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Services

With Wilo as your partner, you can not only be sure of choosing high-quality product solutions, but also of benefiting from a comprehensive, worry-free package of well thought-out services. We collaborate to develop a service concept tailored to your individual needs; with our expertise and personal consultancy, we make sure that the operation of your systems is as energy-efficient, reliable and economical as possible. All the while our competent Wilo service technicians are ready to assist you with fast, reliable and on-time support.

Recommended services

Wilo-Live Assistant Service	2216415
Supervision Glanded pumps	2219321
Commissioning Glanded pumps	2219391
Maintenance BASIC Glanded pumps	2219531
Maintenance COMFORT Glanded pumps	2219493
Maintenance PREMIUM Glanded pumps	2219546

More suitable services

Service Package L Glanded pumps	2219697
Service Package M Glanded pumps	2219668
Service Package S Glanded pumps	2219639
Extended Warranty Glanded pumps	2219590
Installation Glanded pumps	2219356
System Optimisation Glanded pumps	2219251
Energy Solutions Glanded pumps	2219240
Repair Glanded pumps	2219610