



Data sheet

Motor data

Hydraulic data

Maximum operating pressure PN	2 bar
Impeller type	Single-channel impeller
Free ball passage of the hydraulics	45 mm
Max. immersion depth	12.5 m
Min. fluid temperature <i>T</i> _{min}	3 ℃
Max. fluid temperature <i>T</i> _{max}	40 °C
Min. ambient temperature <i>T</i> _{min}	-15 ℃
Max. ambient temperature $T_{\rm max}$	40 °C

Cable

Connection cable length L	10 m
Cable type	H07RN-F
Cable cross-section	4G1,5 mm ²
Mains plug	CEE M16W (3P+N+PE, 6h)
Type of connection cable	Detachable

Equipment/function

Float switch	no
Explosion protection type	-
Motor protection	no

Mains connection 3~400 V. 50 Hz

Mains connection	3~400 V, 50 Hz
Voltage tolerance	±10 %
Power factor $\cos \varphi_{100}$	0.87
Rated power <i>P</i> ₂	2.2 kW
Power consumption $P_{1 \text{ max}}$	2800 W
Rated current $I_{\rm N}$	4.65 A
Starting current I	24 A
Activation type	Direct On Line (DOL)
Rated speed <i>n</i>	2820 1/min
Max. switching frequency <i>t</i>	15 1/h
Insulation class	F
Protection class	IP68
Operating mode (immersed)	S1
Operating mode (non-immersed)	S1

Materials

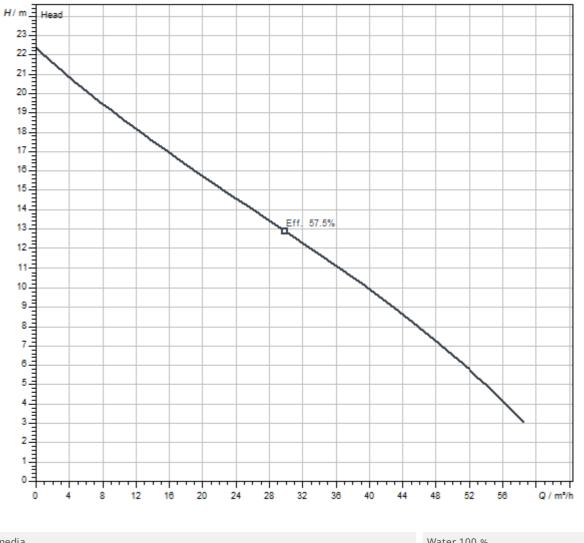
Pump housing	Grey cast iron
Impeller	Ductile cast iron
Sealing on pump side	QQPGG
Sealing on motor side	BVPGG
Gasket material	FKM
Motor housing	Grey cast iron

Installation dimensions

Pipe connection on the discharge side DNd	Storz B
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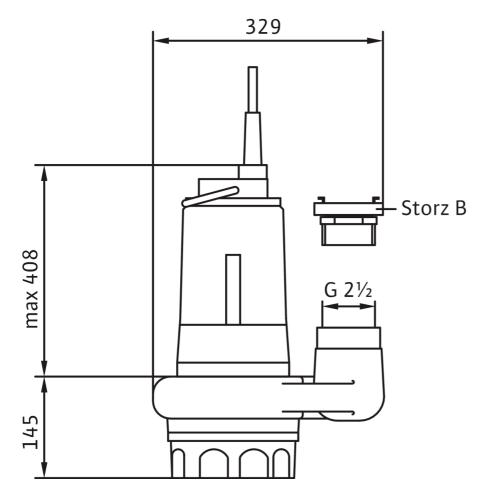
Pump curves



Fluid media	Water 100 %
Fluid temperature <i>T</i>	20.00 °C
speed at duty point <i>n hydr. @ OP</i>	2,850 1/min
Impeller diameter <i>d imp.</i>	125 mm

Dimensions and dimensions drawings

Wilo-EMU KS 20



wilo



Ordering information

Product data

Brand	Wilo
Product description	EMU KS 20D GG
Article number	6042090 🔀
EAN number	4044966435243
Colour	Green
Minimum order quantity	1
Date of sales availability	2010-01-01

Dimension, weight

Length with packaging	400 mm
Length <i>L</i>	230 mm
Height with packaging	600 mm
Height <i>H</i>	553 mm
Width with packaging	400 mm
Width W	329 mm
Gross weight, approx. <i>m</i>	47 kg
Net weight, approx. <i>m</i>	42 kg

Packaging

Packaging type	Cardboard box
Packaging property	Transport packaging
Pieces per pallet	1
Number per layer	1



Tender text

Fully submersible drainage pump for vertical wet well installation for pumping contaminated and sandy water. Hydraulics housing, impeller and motor housing of cast iron. Pressure connection with vertical pressure outlet and Storz coupling. Self-cooling motor in three-phase current version and detachable connection cable with CEE plug. Sealing on the fluid and motor side is done by mechanical seal. The unit can be used without limits in slurping operation.

Operating Data

Product data

Impeller type	Single-channel impeller
Free ball passage of the hydraulics	45 mm
Maximum operating pressure PN	2 bar
Max. immersion depth	12.5 m
Fluid temperature <i>T</i>	3 °C
Max. fluid temperature <i>T</i> _{max}	40 °C
Motor data	
Mains connection	3~400 V, 50 Hz
Voltage tolerance	±10 %
Power factor $cos \ \varphi_{100}$	0.87
Rated power P ₂	2.2 kW
Power consumption P _{1 max}	2.80 kW
Rated current <i>I</i> _N	4.65 A
Starting current I	24 A
Activation type	Direct On Line (DOL)
Rated speed <i>n</i>	2820 1/min
Max. switching frequency t	15 1/h
Insulation class	F
Protection class	IP68
Operating mode (immersed)	S1

S1

Cable

Connection cable length L	10 m
Cable type	H07RN-F
Cable cross-section	4G1,5 mm ²
Mains plug	CEE M16W (3P+N+PE, 6h)
Type of connection cable	Detachable

Equipment/function

Float switch	no
Explosion protection type	-
Motor protection	no

Materials

Pump housing	Grey cast iron	
Impeller	Ductile cast iron	
Shaft	Stainless steel	
Sealing on pump side	QQPGG	
Sealing on motor side	BVPGG	
Gasket material	FKM	
Motor housing	Grey cast iron	

Installation dimensions

Pipe connection on the suction side DNs	-
Pipe connection on the discharge side DNd	Storz B

Ordering information

Brand	Wilo
Product description	EMU KS 20D GG
Net weight, approx. <i>m</i>	42 kg
Article number	6042090 🔀

Operating mode (non-immersed)



Installation type

Level control with float switch

Level measurement using a level sensor with various measurement ranges, including high water alarm and dryrunning protection.

Battery 9V,200mA	
NiMh rechargeable battery, 9 V/200 mAh	2522850
Float switch WA	
Float switch WA65 with 10 m cable	503211893
Float switch WA65 with 20 m cable	2004431
Float switch WA65 with 30 m cable	2004432
Float switch WA65 with 5 m cable	503211390
Intermediate float switch for 3~ units	
ZSD CEE16 with 10 m cable, 10m	6021206
ZSD CEE16 with 5 m cable, 5m	6023412
Signal horn	
Signal horn 1~230 V	501459398
Flash light	
Flash light 1~230 VAC	2551613

Mains-independent alarm signal

Alarm signal for detection of flooding in rooms and buildings. The alarm signal is acoustic, optical or wireless. In addition, other consumers can be controlled directly.

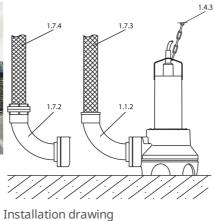
Float switch WA	
Float switch WA65 with 10 m cable	503211893
Float switch WA65 with 5 m cable	503211390
AlarmControl	
AlarmControl 1	2522846
AlarmControl 2	2522847
DrainAlarm	
DrainAlarm	2545133
Signal horn	
Signal horn 1~230 V	501459398
Flash light	



Flash light 1~230 VAC

Portable wet well installation





The pump is equipped with a pump foot (integrated in the pump housing or separately as an accessory). With this pump foot, the pump can be easily and flexibly installed in any operating space. Hoses are used as discharge pipes. Connection is with a hose nipple or Storz coupling.

For a level-dependent operation, it is recommended to use a pump with a float switch.

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Flat suction 1.4.11	
Flat suction KS 8/KS 9	6032495
Suction strainer extension 1.4.11	
Suction strainer extension KS 8/KS 9	6032496
Plastic spiral hose with coupling 1.7.4	
Plastic spiral hose 10 m, with Storz A	6022276
Plastic spiral hose 10 m, with Storz B	6035187
Plastic spiral hose 10 m, with Storz C	6022270
Plastic spiral hose 20 m, with Storz A	6022277
Plastic spiral hose 20 m, with Storz B	6022274
Plastic spiral hose 20 m, with Storz C	6022271
Plastic spiral hose 5 m, with Storz A	6022275
Plastic spiral hose 5 m, with Storz B	6022272
Plastic spiral hose 5 m, with Storz C	6022269
Synthetic fibre hose with coupling 1.7.4	
Synthetic fibre pressure hose 10 m, with Storz A	6022392
Synthetic fibre pressure hose 10 m, with Storz B	6003051
Synthetic fibre pressure hose 10 m, with Storz C	6003650
Synthetic fibre pressure hose 20 m, with Storz A	6022393
Synthetic fibre pressure hose 20 m, with Storz B	6003050
Synthetic fibre pressure hose 20 m, with Storz C	6003649
Synthetic fibre pressure hose 5 m, with Storz A	6022391

Synthetic fibre pressure hose 5 m, with Storz B

6003052

EMU KS 20D GG

Synthetic fibre pressure hose 5 m, with Storz C

Coupling key 1.7.7

Coupling key for Storz A, B, C



6003651

6022280

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Adapter

Storz adapter	
Storz A/B transition coupling	6003026
Storz B/C transition coupling	6000748
Hoses / hose joints	
Coupling key	
Coupling key for Storz A, B, C	6022280
Coupling key for Storz F	6022281
Plastic spiral hose with coupling	
Plastic spiral hose 5 m, with Storz C	6022265
Plastic spiral hose 10 m, with Storz C	6022270
Plastic spiral hose 20 m, with Storz C	6022271
Plastic spiral hose 5 m, with Storz B	6022272
Plastic spiral hose 20 m, with Storz B	6022274
Plastic spiral hose 5 m, with Storz A	6022275
Plastic spiral hose 10 m, with Storz A	6022276
Plastic spiral hose 20 m, with Storz A	6022277
Plastic spiral hose 5 m, with Storz F	6022278
Plastic spiral hose 10 m, with Storz B	6035187
Plastic spiral hose 5 m, with Storz F	6044660
Synthetic fibre hose with coupling	
Synthetic fibre pressure hose 20 m, with Storz B	6003050
Synthetic fibre pressure hose 10 m, with Storz B	6003051
Synthetic fibre pressure hose 5 m, with Storz B	6003052
Synthetic fibre pressure hose 20 m, with Storz F	6003647
Synthetic fibre pressure hose 10 m, with Storz F	6003648
Synthetic fibre pressure hose 20 m, with Storz C	
	6003649

Synthetic fibre pressure hose 5 m, with Storz C Synthetic fibre pressure hose 5 m, with Storz A

Synthetic fibre pressure hose 10 m, with Storz A

Synthetic fibre pressure hose 20 m, with Storz A

6003651

6022391

6022392

6022393



6032495

6032496

Installation/setup

Flat suction

Flat suction KS 8/KS 9

Suction strainer extension

Suction strainer extension KS 8/KS 9

12/06/2024 - _international/en



Electrical accessories

Pump control

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Wilo-Control MS-Lift	
MS-L-1x4kW-DOL-T4	2550527
MS-L-2x4kW-DOL-T4	2550528
Wilo-Control SC-Lift	
SC-L-2x6.3A-T34-DOL-WM	2538921
SC-L-2x6.3A-T34-DOL-WM-FTS	2543243
Pump control/accessories	
Battery 9V,200mA	
NiMh rechargeable battery, 9 V/200 mAh	2522850
Alarm signal	
AlarmControl	
AlarmControl 1	2522846
AlarmControl 2	2522847
DrainAlarm	
DrainAlarm	2545133
DrainAlarm FIRST	2550526
Flash light	
Mounted Flash light 1~230 VAC	2510429
Flash light 24 VDC	2551612
Flash light 1~230 VAC	2551613
Signal horn	
Signal horn 12-24 VDC	2017208
Signal horn 1~230 V	501459398
Small alarm switchgear	
Small alarm switchgear KAS	501534094
Level control	
Float switch MS1	

Float switch MST	
Float switch MS1 with 10 m cable	2004593



Float switch WA	
Float switch WA65 with 5 m cable	503211390
Float switch WA65 with 10 m cable	503211893
Float switch WA65 with 20 m cable	2004431
Float switch WA65 with 30 m cable	2004432
Float switch WA KR1 S with 5 m cable	6082806
Float switch WA KR1 S with 10 m cable	6082807
Float switch WA65 (PSN-X) with 20 m cable	6088843
Float switch WA65 (PSN-X) with 10 m cable	6088844
Float switch WA65 (PSN-X) with 5 m cable	6088845
Float switch WAO	
Float switch WAO 65, 5 m cable	503211595
Float switch WAO 65, 10 m cable	2006027
Float switch WAO 65, 20 m cable	2004429
Float switch WAO 65, 30 m cable	2004430
Intermediate float switch for 3~ units	
ZSD CEE16 with 10 m cable, 10m	6021206
ZSD CEE16 with 5 m cable, 5m	6023412



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

Commissioning Drainage pumps	2219491
Wilo-Live Assistant Service	2216415
Maintenance BASIC Drainage pumps	2219540
Maintenance COMFORT Drainage pumps	2219514
Maintenance PREMIUM Drainage pumps	2219567

More suitable services

Service Package L Drainage pumps	2219719
Service Package M Drainage pumps	2219690
Extended Warranty Drainage pumps	2219465
Supervision Drainage pumps	2219348
Installation Drainage pumps	2219383
System Optimisation Drainage pumps	2219278
Energy Solutions Drainage pumps	2219313
Repair Drainage pumps	2219632