



### **Data sheet**

### Hydraulic data

Maximum operating pressure PN	5 bar
Impeller type	Multi-channel impeller
Free ball passage of the hydraulics	6 mm
Max. immersion depth	12.5 m
Min. fluid temperature $T_{\min}$	3 ℃
Max. fluid temperature $T_{\rm max}$	40 °C
Min. ambient temperature $T_{\min}$	-15 °C
Max. ambient temperature $T_{\rm max}$	40 °C

### **Motor data**

Mains connection	3~400 V, 50 Hz
Voltage tolerance	±10 %
Power factor $\cos \varphi_{100}$	0.88
Rated power P <sub>2</sub>	7.5 kW
Power consumption $P_{1 \text{ max}}$	9500 W
Rated current $I_{N}$	15.6 A
Starting current <i>I</i>	85 A
Activation type	Direct On Line (DOL)
Rated speed <i>n</i>	2860 1/min
Max. switching frequency <i>t</i>	15 1/h
Insulation class	F
Protection class	IP68
Protection class  Operating mode (immersed)	IP68

### Cable

Connection cable length <i>L</i>	20 m
Cable type	H07RN-F
Cable cross-section	4G1,5 mm <sup>2</sup>
Mains plug	CEE M32WD (3P+N+PE, 6h)
Type of connection cable	Non-detachable

### **Equipment/function**

Float switch	no
Explosion protection type	-
Motor protection	no

### Materials

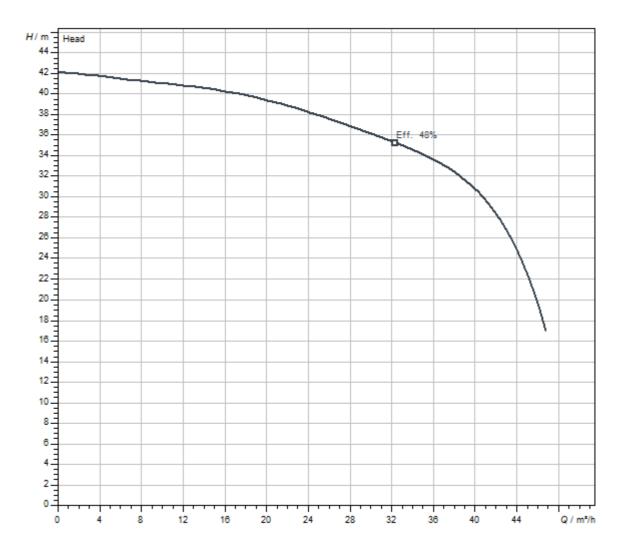
Pump housing	Grey cast iron
Impeller	Ductile cast iron
Sealing on pump side	QQPGG
Sealing on motor side	BVPGG
Gasket material	FKM
Motor housing	Aluminium

### **Installation dimensions**

Pipe connection on the discharge side <i>DNd</i>	Storz A
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## **Pump curves**

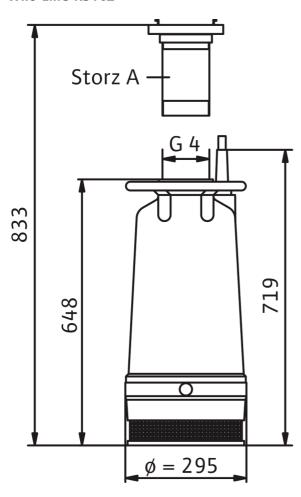


Fluid media	Water 100 %
Fluid temperature <i>T</i>	20.00 °C
speed at duty point <i>n hydr. @ OP</i>	2,880 1/min
Impeller diameter <i>d imp</i> .	199 mm



## **Dimensions and dimensions drawings**

### Wilo-EMU KS 70Z





### **Tender text**

Fully submersible drainage pump for vertical wet well installation for pumping contaminated and sandy water. Hydraulics housing and impeller made of cast iron, motor housing made of aluminium. Pressure connection with centric and vertical pressure outlet and Storz

coupling. Surface-cooled motor in three-phase current version with sheath flow cooling and sealing chamber. Detachable connection cable with CEE plug. The seal employs two bidirectional mechanical seals. The unit can be used without limits in slurping operation.

### **Operating Data**

### **Product data**

Impeller type	Multi-channel impeller
Free ball passage of the hydraulics	6 mm
Maximum operating pressure PN	5 bar
Max. immersion depth	12.5 m
Fluid temperature <i>T</i>	3 ℃
Max. fluid temperature $T_{\rm max}$	40 °C

### Motor data

Motor data	
Mains connection	3~400 V, 50 Hz
Voltage tolerance	±10 %
Power factor $cos\ arphi_{100}$	0.88
Rated power P <sub>2</sub>	7.5 kW
Power consumption $P_{1 \text{ max}}$	9.50 kW
Rated current $I_{\rm N}$	15.6 A
Starting current <i>I</i>	85 A
Activation type	Direct On Line (DOL)
Rated speed <i>n</i>	2860 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

### Cable

Connection cable length <i>L</i>	20 m
Cable type	H07RN-F
Cable cross-section	4G1,5 mm <sup>2</sup>
Mains plug	CEE M32WD (3P+N+PE, 6h)
Type of connection cable	Non-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	Aluminium

### **Installation dimensions**

Pipe connection on the suction side <i>DNs</i>	-
Pipe connection on the discharge side <i>DNd</i>	Storz A

### **Ordering information**

Brand	Wilo
Product description	EMU KS 70ZH D
Net weight, approx. <i>m</i>	81 kg
Article number	6021370



### **Installation type**

### Level control with float switch

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

running protection.	
Wilo-Control SC-Lift	
SC-L-2x16A-T34-DOL-WM	2538933
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

EL LE LA CONTACT	2554642	
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

Signal horn

DrainAlarm	2545133

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Flash light 1~230 VAC



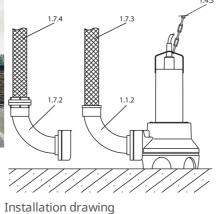
2551613

Signal horn 1~230 V	501459398
Flash light	

### Portable wet well installation







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

The pump is equipped with a pump

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

### 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
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### 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
Synthetic fibre pressure hose 5 m, with Storz C	6003651

### Coupling key 1.7.7

Coupling key for Storz A, B, C	6022280



### **Mechanical accessories**

### Adapter

Adapter	
Storz adapter	
Storz A/B transition coupling	6003026
Storz F/A transition coupling	6022279
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	6022269
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 10 m, with Storz C	6003650
Synthetic fibre pressure hose 5 m, with Storz C	6003651
Synthetic fibre pressure hose 5 m, with Storz A	6022391
Synthetic fibre pressure hose 10 m, with Storz A	6022392

Synthetic fibre pressure hose 20 m, with Storz A

6022393



# Installation/setup Flat suction Flat suction KS 8/KS 9 6032495 Suction strainer extension Suction strainer extension KS 8/KS 9 6032496



### **Electrical accessories**

Pump contro	Pum	p	con	itro
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Wilo-Control SC-Lift	
SC-L-2x16A-T34-DOL-WM	2538933
SC-L-2x16A-T34-DOL-WM-FTS	2543246

### Pump control/accessories

<b>Battery</b>	9V.	200n	ıА
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NiMh rechargeable battery, 9 V/200 mAh

### **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 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

ZSD CEE16 with 5 m cable, 5m

ZSD CEE32 with 10 m cable, 10m



6023412

6027184

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  Float switch WAO 65, 5 m cable	503211595
	503211595 2006027
Float switch WAO 65, 5 m cable	
Float switch WAO 65, 5 m cable Float switch WAO 65, 10 m cable	2006027
Float switch WAO 65, 5 m cable Float switch WAO 65, 10 m cable Float switch WAO 65, 20 m cable	2006027



### **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
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System Optimisation Drainage pumps	2219278
Energy Solutions Drainage pumps	2219313
Repair Drainage pumps	2219632