PENTAIR JUNG PUMPEN



U3 SPEZIAL

DRAINAGE PUMPS

- For saline solutions up to 10% salinity
- Cooling jacket for motor housina
- Low level pumping by

detachable strainer base

- Run dry protection
- EIP Technology
- · SiC mechanical seal
- · Moisture sealed cable inlet



DESCRIPTION

Die U3K(S) is a special model made from high-quality resistant materials. This model is suitable for both stationary and portable use and is also able to handle aggressive media such as liquids containing salt, brackish water, condensate, silage liquor, whey and liquid fertilizer in the agricultural industry.

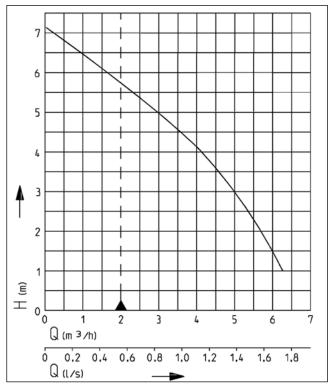
Contaminated water at high temperatures from dishwashers and washing machines (also high temperature) as well as condensate from gas condensing boilers can also be removed with the pump. For stationary operation the pump can also be combined with either the collecting tank supplied or with a large number of our chemical-resistant collecting tanks.

For other aggressive media we advise you to consult us. The difference in the characteristics of the various media does not make it possible for us to provide a guarantee.

This pump provides the same outstanding innovative technical features as the standard model. For stationary use in drains the guide rail system GR 32 also offers all the advantages of fast and easy maintenance. If the sump or tank runs dry temporarily, the pump can be vented by providing a drill-hole in the spiral housing.

If centrifugal submersible pumps are used outdoors, only a pump with 10 m cable without extension cable may be used in accordance with VDE Regulation 0100.

PERFORMANCE



Туре	Delivery head H[m]	1	2	3	4	5	6
U3K-spezial/U3KS-spezial	Flow rate Q[m³/h]	6.5	5.5	5.0	4.0	3.0	1.5

We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 tolerances

The minimum flow velocity in the pressure piping must be 0.7 m/s according to EN 12056.

This data is represented in the performance curve as a limit of application





D 101-2007

SCOPE OF SUPPLY

Pump ready for connection acc. to EN 12050 with 90°, 11/4″ female connection elbow, cable and plug, S model with automatic level

float switch.

MECHANICAL DATA

Pump	Vertical single-stage	Run dry protection	Yes
Free passage	10 mm	Shaft	Stainless steel
Bearing	Ball bearings, grease-lubricat-	Impeller	Vortex impeller, GFK
	ed	Motor housing	Stainless steel
Seal on motor side	Rotary shaft seal	Pump housing	GRP
Oil chamber	Yes	Submersible	Yes
Seal on medium side	SiC mechanical seal	Pressure outlet	1 1/4"

ELECTRICAL DATA

Voltage	1/N/PE~230 V	Type of enclosure	IP 68
Motor rating P1	0.32 kW	Insulation class	В
Motor rating P2	0.2 kW	Winding thermostat	Yes
Current	1.4 A	Motor protection	Integrated
Wires	3G1,0	Plug	Safety

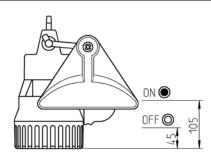
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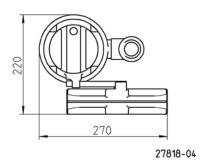
Туре	Code No.	Power line	Weight
Without level control			
U3K-spezial, 10 m cable	JP09562	10m H07RN-F	4.3 kg
With built-in level control			
U3KS-spezial, 4 m cable	JP09563	4m H07RN-F	3.6 kg
U3KS-spezial, 10 m cable	JP45195	10m H07RN-F	4.3 kg

Dimensions and switching points U3KS spec. (mm)

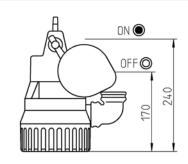
ON OFF O 11/4" 2527 01/4" 280 27818-04

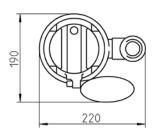
Dimensions and switching points special float (mm)





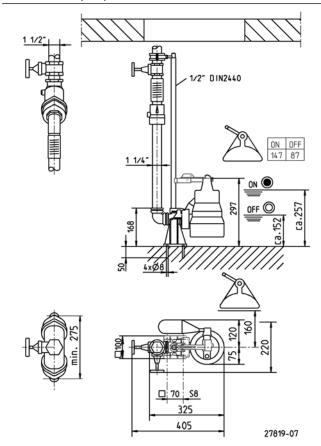
Dimensions and switching points special float (mm)



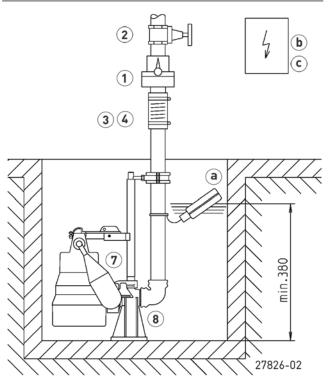


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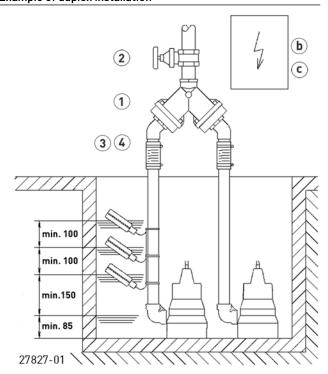
Dimensions GR (mm)



Example of single pump installation with GR



Example of duplex installation



Single unit with GR: sump area min. 40x50 cm or Ø 50 cm Single unit without GR: sump area min. 40x40 cm or Ø 40 cm Duplex unit with GR: sump area min. 50x50 cm, Ø 60 cm Duplex unit without GR: sump area min. 50x50, Ø 55 cm

In case of installation beneath the backpressure level the pressure tube must be taken in a

loop over the local backup level acc. to EN 12056. Besides, it must be secured with an EN 12050-4-proofed swing-type check valve. Additionally we recommend an alarm system. In accordance with EN 12056-4 section 5.1, it has a built-in automatic spare pump or a double attachment included, which ensures that sewage drainage is not interrupted. Suspend control unit in a dry room

MECHANICAL ACCESSORY

					Code No.
	1	Swing-type check valve			
B		R32 EN 12050-4	11/4" (DN 32), PN 4	90x90 (HxB)	JP09739
		DR 40 EN 12050-4	1½" (DN 40), PN 4	200x280 (HxB)	JP09155
	2	Stop valve	brass, 1½" (DN 40), PN 16	125x60 (HxB)	JP44786
B B		Ball valve	11/4", PVC, for aggressive media	105x155 (HxB)	JP46111
Ξ D	3	Elastic connection	1¼"(DN 32), PN 3	100x42 (HxD)	JP44773
O	4	Hose band clamp	11/4"		JP44765
	5	Hose coupling Hose coupling House connection	1½" (DN 32) brass, for transportable 1½" – 38/32/25	e use	JP00327 JP44209
	6	Hose set	1 1/4" (DN32), 15 m PVC hose c/w elt	oow	JP43550
	7	Special float	for lower switching points		JP44795
			for narrow chambers (mind. 30x30	od Ø30 cm)	JP40856
		Float fixation	for continuous pump operation		JP42175
## ## ## ## ## ## ## ## ## ## ## ## ##	8	Guide rail system	GR 32		JP44000
		Support for guide rail extension	ex 2 m sump depth, per m 1 piece		JP28314
	9	Connection kit	DN 32, with telescopable pressure	pipe 30-90 cm	JP44609

ELECTRICAL ACCESSORY

				Code No.
	a	Alarm unit PTS.SA1	Level alarm system with battery backup 320x240x150mm (WxDxH)	PTS.SA1
		PTS.HLA	High Level alarm unit. 182x180x111mm (HxWxD)	PTS.HLA
L. L.		Power Isolation Alarm	Isolate appliance - in event of alarm no more water will be fed into the alarm system	P734
	(b)	Control for single units		
		Control unit NE 1	230 V, subm. ball contact switch 3.0 m	JP16710
		Control unit NE 1A	230 V, subm. ball contact switch 3.0 m, alarm	JP16714
		Control unit NE 2	230 V, subm. ball contact switch 9.5 m	JP16711
		Control unit NE 2A	230 V, subm. ball contact switch 9.5 m, alarm	JP16715
F=-7		Control for duplex units		
		Control unit BD 00 E	230 V, for pumps U3-U6, US 62-105, UV 300, 08/2 ME	JP45735
		Control unit HIGHLOGO 2-00 E	230 V	JP47996
		Level control		
7		Subm. switch pack B	3 subm. ball contact switch with 9.5 m and fixing devices	JP16725
		Subm. switch pack BmG	3 subm. ball contact switch with 9.5 m and counterweight	JP16726
		Weight	to stabilize the subm. ball contact switch	JP44803
	(c)	Rechargeable battery	for mains independent alarm	JP44850
				JP47209

