DATA SHEET

DrainKing 30 SL Twin (240V)

Duty/Standby Pumping System with Control Panel

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GENERAL DESCRIPTION

DrainKing 30 SL Twin (240V) has a heavy-duty GRP tank and two pumps with mechanical shaft seals for mildly corrosive wastewater (20 ppm) from laboratories, vets, dentists, hairdressers, janitor sinks and coffee shops.

DUTY/STANDBY OPERATION

The Twin gives the added security of duty/standby operation in one common tank. If one pump becomes blocked or fails, the wastewater rises and activates the high-level alarm, and the control panel starts the other pump as the standby pump.

TANK CONSTRUCTION

Manufactured from GRP and fully rigged with internal pipework, a gate valve and non-return valves.

TANK VOLUME	**151.2 litres**
USABLE VOLUME (APPROX.)	**100.8 litres**
MINIMUM INVERT HEIGHT	**105 mm**
DISCHARGE OUTLET	**1½" BSP male + gate valve**
TANK VENTING	**1¼" min. to air or MicroVent**

TANK DIMENSIONS



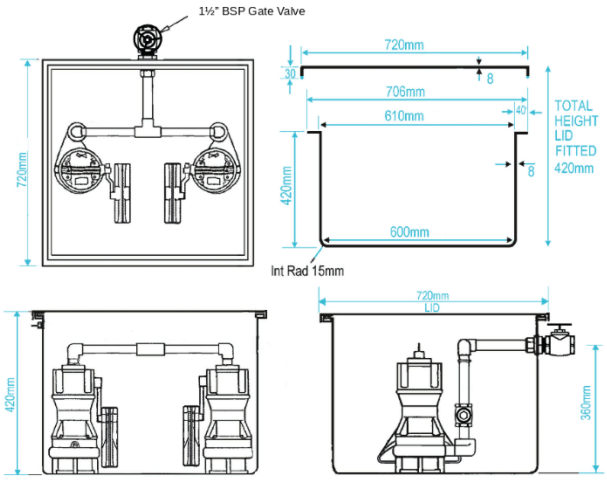


FIG. 1 — TANK PLAN, SECTION & ELEVATIONS, DIMENSIONS IN MM

Inlet connection

To suit site layout, bring all inverts into the side of the tank by drilling a hole and fitting an appropriate tank connector.

Supplied with control panel

Each DrainKing Twin comes with a pump station control panel and a single high-level finger float. See page 2 for details.

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Pump Station Control Panel

CONTROL PANEL

The DrainKing Twin is supplied with a pump station control panel and a single high-level finger float. The duty pump alternates automatically after every pump operation, so both pumps share the work.

If the high-level alarm is activated, the standby pump starts. A rechargeable battery is fitted so the alarm keeps working if the mains supply fails.

KEY PANEL FEATURES

- Automatic duty/standby alternation after every pump operation
- Standby pump starts on high-level alarm
- Single high-level finger float supplied
- Door isolation switch
- Pump 1 and pump 2 operational/tripped lights
- Alarm buzzer, minimum 80 dBA at 1 m
- Alarm on/off switch
- 3 volt-free ports for BMS connection
- Rechargeable battery backup for mains failure

PUMP STATION PANEL



FIG. 2 — PUMP STATION CONTROL PANEL

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Pump — U3 KS Spezial Submersible

PUMP FEATURES

- For saline solutions up to 15% salinity
- SiC mechanical seal
- Cooling jacket for motor housing
- Low-level pumping by detachable strainer base
- Flushing device, activatable and deactivatable
- Variable discharge branch with closable ventilation
- Run dry protection
- Thermal protection
- EIP Technology
- Moisture-sealed cable inlet
- Fluid temperature 35 °C continuous, 60 °C for 10 min.

DESCRIPTION

The heavy-duty centrifugal submersible drainage pump U3 KS Spezial is suitable for wastewater and capable of handling soft solids up to 10 mm in particle size. It is a variant of the U3K with a SiC mechanical shaft seal and is designed for wastewater containing mildly corrosive chemicals up to 20 parts per million concentration.

PUMP TYPE	**U3 KS Spezial**
OVERALL HEIGHT	**255 mm**
OVERALL DIAMETER	**Ø144 mm**
SWITCH DIFFERENTIAL	**45–105 mm**

SWITCHING POINTS

LEVEL — ON	LEVEL — OFF
105 mm from base	**45 mm from base**

PERFORMANCE CURVE – U3K SPEZIAL

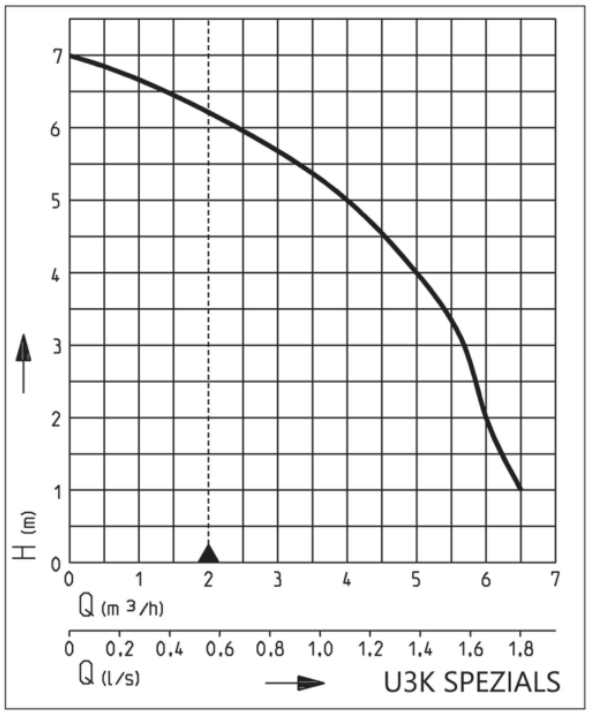


FIG. 3 — U3K SPEZIAL HEAD (H) VS. FLOW (Q)

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Technical Data & Scope of Supply

MECHANICAL DATA	
Pump	Vertical single stage
Free passage	10 mm
Bearing	Ball bearing, grease-lubricated
Seal — motor side	Rotary shaft seal
Oil chamber	Yes
Seal — medium side	SiC mechanical seal
Thermal protection	Yes
Shaft	Stainless steel
Impeller	Vortex impeller, GFK
Motor housing	Stainless steel
Pump housing	GRP
Submersible	Yes
Pressure outlet	1¼"

ELECTRICAL DATA	
Voltage	1/N/PE — 230 V
Motor rating P1	0.32 kW
Motor rating P2	0.2 kW
Current	1.4 A
Type of enclosure	IP 68
Insulation class	B
Winding thermostat	Yes
Motor protection	Integrated
Plug	Safety

Type	Code No.	Power line	Wires	Weight
WITH BUILT-IN LEVEL CONTROL				
U3 KS Spezial, 4 m cable	JP50005	4 m H07RN-F	3G1,0	3.7 kg

INSTALLATION NOTES

- This unit is for wastewater only.
- Ensure the location of the DrainKing enables the lid to be easily removed for regular inspection and maintenance.
- If the discharge pipework connection to a soil stack, manhole etc. is below the discharge outlet of the tank, an anti-syphon unit must be fitted at the highest point of the discharge pipework.



2 YEAR WARRANTY

The DrainKing 30 SL Twin (240V) comes complete with a two-year warranty from Pump Technology Ltd.

Official Distributor and Stockist Authorised by Jung Pumpen GmbH.
Pump Technology Ltd. reserves the right to change the specification without prior notice.
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