DATA SHEET

DrainKing 730 Twin (3ph)

Duty/Standby Pumping System with Control Panel

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GENERAL DESCRIPTION

DrainKing 730 Twin (3ph) has a heavy-duty GRP tank and two submersible pumps for automatically pumping wastewater from commercial kitchens, multiple sinks, dishwashers and similar applications.

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	**155 mm**
DISCHARGE OUTLET	**1½" BSP male + gate valve**
TANK VENTING	**1¼" min. to air or MicroVent**

TANK DIMENSIONS



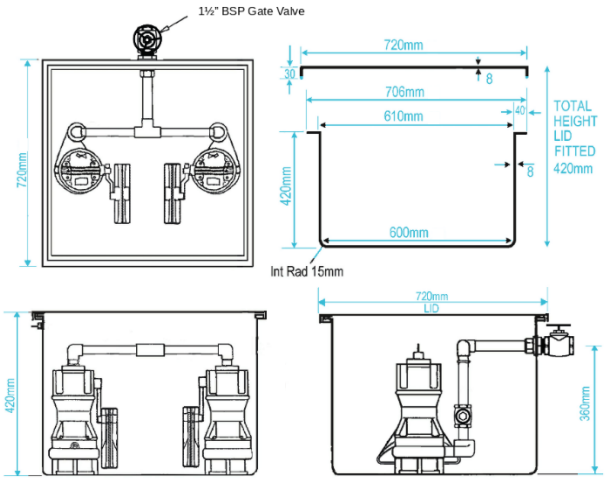


FIG. 1 — TANK PLAN, SECTION & ELEVATIONS, DIMENSIONS IN MM

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 — US 73 DS Submersible

PUMP FEATURES

- Safe to run dry
- 30 mm free passage
- Controllable oil chamber
- SiC mechanical seal independent of sense of rotation
- Replaceable moisture-sealed cable inlet
- Fluid temperature 35 °C continuous, 60 °C for 10 min.

DESCRIPTION

The heavy-duty centrifugal submersible drainage pump US 73 DS is suitable for wastewater and capable of handling soft solids up to 30 mm in particle size.

PUMP TYPE	US 73 DS
OVERALL HEIGHT	380 mm
OVERALL DIAMETER	TBC
SWITCH DIFFERENTIAL	105–155 mm

SWITCHING POINTS

LEVEL — ON	LEVEL — OFF
155 mm from base	105 mm from base

PERFORMANCE CURVE – US 73 DS

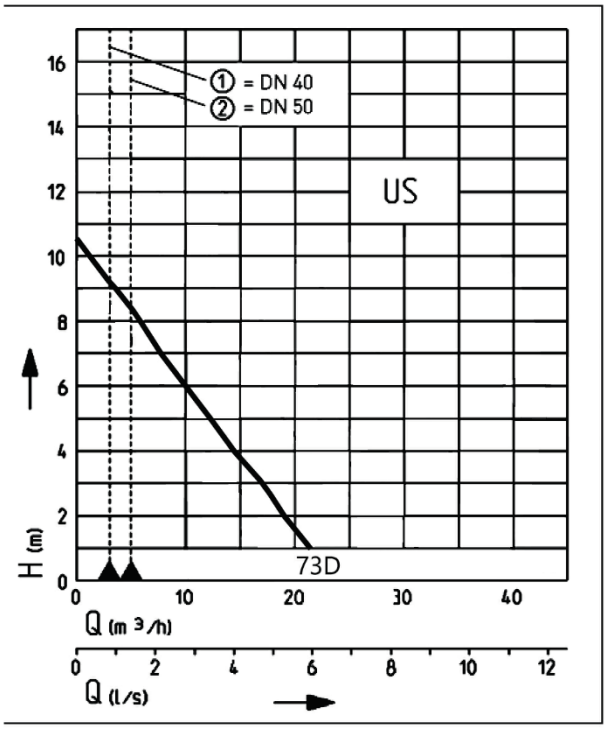


FIG. 3 — US 73 D HEAD (H) VS. FLOW (Q)

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Technical Data & Scope of Supply

MECHANICAL DATA	
Pump	Vertical single stage
Free passage	30 mm
Bearing	Ball bearing, grease-lubricated
Seal — motor side	Duplex rotary shaft seals
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	Grey cast iron
Submersible	Yes
Pressure outlet	1½" female

ELECTRICAL DATA	
Voltage	3/PE — 400 V
Motor rating P1	0.85 kW
Motor rating P2	0.60 kW
Current	1.4 A
Type of enclosure	IP 68
Insulation class	B
Winding thermostat	Yes
Motor protection	Integrated
Plug	CEE

Type	Code No.	Power line	Wires	Weight
WITH BUILT-IN LEVEL CONTROL				
US 73 DS, 10 m cable	JP00679	10 m H07RN-F	4G1,0	13.0 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 730 Twin (3ph) 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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