DATA SHEET

DrainMajor Duo 1030 (240V)

Duty/Standby Wastewater Pumping System

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GENERAL DESCRIPTION

DrainMajor Duo 1030 (240V) features a heavy-duty twin tank with two submersible pumps for automatically pumping wastewater from commercial kitchens, tea points and similar applications.

DUTY/STANDBY OPERATION

The Duo gives the added security of duty/standby operation. If one pump becomes blocked or fails, the wastewater rises in that tank, triggers the high-level alarm and overflows into the adjoining tank, where the other pump takes over as the standby pump.

TANK CONSTRUCTION

Manufactured from recyclable polyethylene and fully rigged with internal pipework and a non-return valve. The lid is secured with easy-to-remove hand screws and seats on a custom-moulded, fitted rubber seal.

TANK VOLUME	149.6 litres
USABLE VOLUME (APPROX.)	99.6 litres
MINIMUM INVERT HEIGHT	185 mm
DISCHARGE OUTLET	1½" BSP male + NRV
TANK VENTING	1¼" min. to air or MicroVent

TANK DIMENSIONS

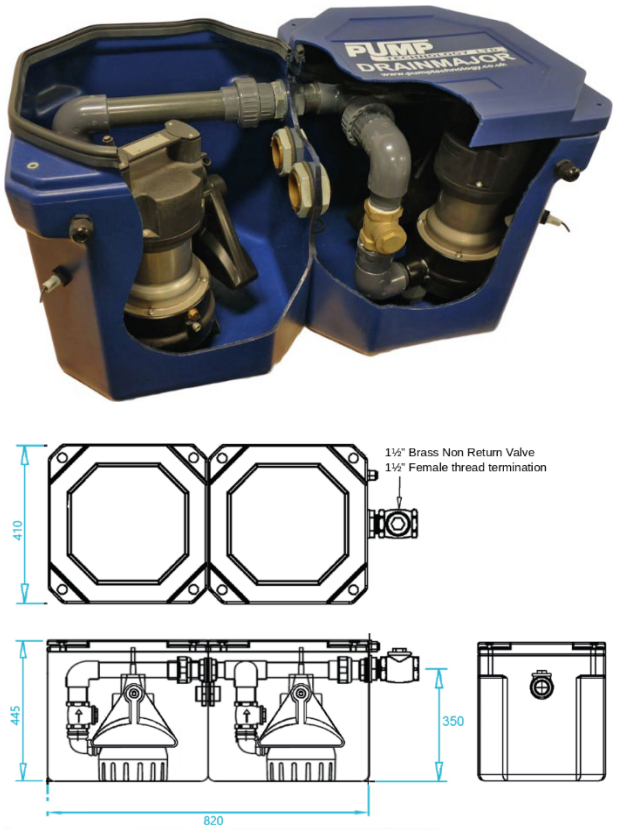


FIG. 1 — DUO TANK PLAN & ELEVATIONS, DIMENSIONS IN MM

Inlet connection

To suit site layout, bring inverts into the side of the tanks by drilling a hole and fitting an appropriate tank connector. Inlets into both tanks are essential to ensure both pumps operate.

Made from recyclable polyethylene

Recycling polyethylene is cost-effective and successful — greener than incineration, more eco-friendly than landfill, and readily reprocessed into new products.

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Dual Zone Alarm

DUAL ZONE ALARM

The dual zone alarm has two trigger inputs. When an input is triggered, the alarm activates and an LED shows which input caused it.

It runs from a switched input such as a float switch or pressure switch, and can be activated by either a closed-circuit or open-circuit input. It is designed for a 240 V AC supply and gives a visual and audible warning. A built-in backup battery keeps it running for up to 72 hours during a power cut.

An external beacon or other circuitry can be connected via the auxiliary output and/or the volt-free relay outputs. Each trigger has its own volt-free relay, so the alarm connects easily to a Building Management System.

KEY ALARM FEATURES

- 2 alarm inputs
- Alarm LED indicator
- Alarm audio buzzer
- Alarm audio mute button
- Alarm test button
- Power LED indicator
- IP65-rated enclosure
- Auxiliary alarm output for accessories such as a beacon or siren
- 2 independent volt-free relay contact outputs (SPDT)
- Easy, tool-free installation with WAGO wiring terminals
- Backup battery with up to 72 hours of run time

ALARM PANEL



FIG. 2 — DUAL ZONE ALARM PANEL

DATA SHEET

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Pump — US 103 ES 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 103 ES is suitable for wastewater and capable of handling soft solids up to 30 mm in particle size.

PUMP TYPE	**US 103 ES**
OVERALL HEIGHT	**410 mm**
OVERALL DIAMETER	**TBC**
SWITCH DIFFERENTIAL	**135–185 mm**

SWITCHING POINTS

LEVEL — ON	LEVEL — OFF
185 mm from base	**135 mm from base**

PERFORMANCE CURVE – US 103 ES

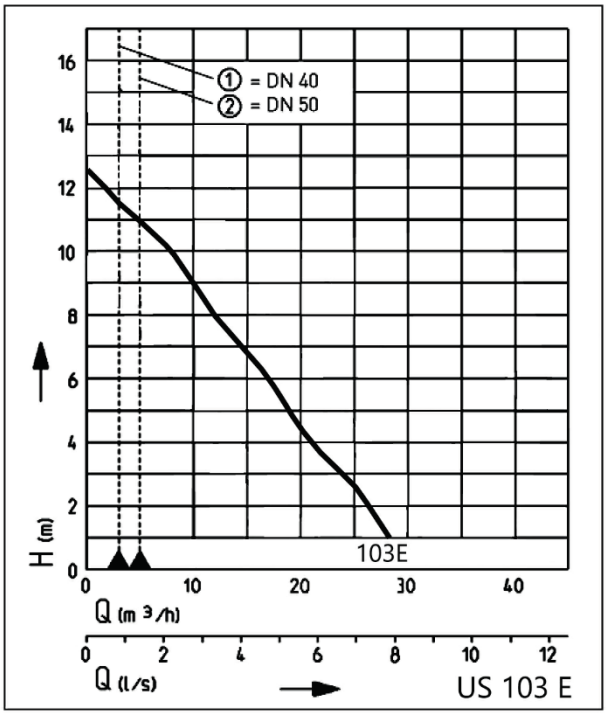


FIG. 3 — US 103 E HEAD (H) VS. FLOW (Q)

DATA SHEET

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Technical Data & Scope of Supply

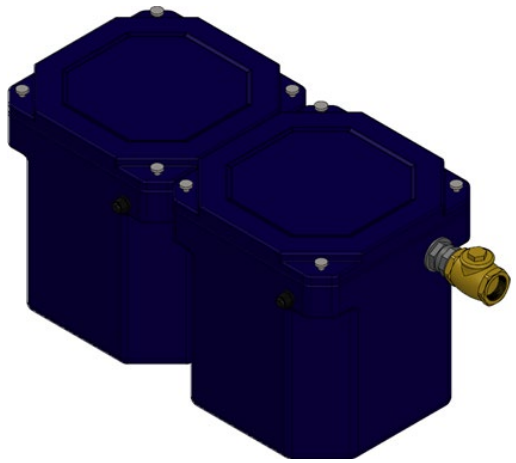
MECHANICAL DATA	
Pump	Vertical single stage
Free passage	30 mm
Bearing	Ball bearing, grease-lubricated
Seal — motor side	Duplex rotary shaft seals
Oil chamber	Yes
Seal — medium side	SiC mechanical seal
Thermal protection	Yes
Shaft	Stainless steel
Impeller	Vortex impeller, GFK
Motor housing	Stainless steel
Pump housing	Grey cast iron
Submersible	Yes
Pressure outlet	1½" female

ELECTRICAL DATA	
Voltage	1/N/PE — 230 V
Motor rating P1	1.37 kW
Motor rating P2	0.98 kW
Current	6.0 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				
US 103 ES, 10 m cable	JP09281	10 m H07RN-F	3G1,0	14.0 kg

INSTALLATION NOTES

- This unit is for wastewater only.
- Ensure the location of the DrainMajor Duo enables both lids 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 DrainMajor Duo 1030 (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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