

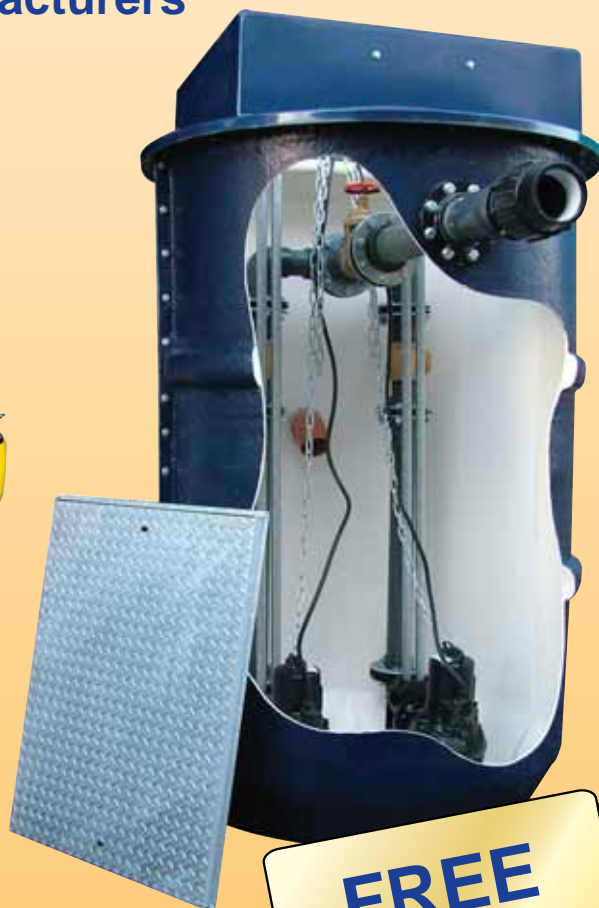
PUMP

POWERED BY  **JUNG
PUMPEN**
Pentair Water

TECHNOLOGY LTD

ISSUE 5

- Sewage Pumps & Pumping Stations
- Distributors for Major Pump Manufacturers
- Waste Water Pumping Systems
- Submersible Pumping Systems
- Macerators



**FREE
ADVICE**



**Commercial and Industrial applications.
Sewage or Waste Water,
Difficult runs - high heads - very hot water**

Whatever the pumping requirement call.....

PUMP

TECHNOLOGY LTD



Tel: 01189 821555

Fax: 01189 821666

E-mail: support@pumptechnology.co.uk

WebSite: www.pumptechnology.co.uk



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Sponsors of

**London
Irish**

After working in the pump industry for many years, I established Pump Technology Ltd in 1992 in response to the unserved demand for mid-range systems to pump waste-water or sewage. I sourced the best pumps and custom built systems to suit individual needs. The company quickly expanded to offer commercial and industrial systems. To maintain the quality and supply of tanks I set up Pegasus Pumps, who now produce tanks from 300mm³ to chambers 2.1m diameter and 5m plus deep.

Over the years I have gathered a team of dedicated, experienced professionals who pride themselves on attention to detail. Our success is built on high quality products, comprehensive knowledge and sound advice coupled with our unique service and technical support.

We are pump people who supply the pumps you need. Our philosophy is simple.


- ✓ **SPEED of RESPONSE** ~ Present us with your problem and, working with you, we will present you with the most economic solution on the market providing optimum performance and lowest ownership costs. We **AIM** to do this **WITHIN 30 MINUTES** of our first discussion, subject to complexity of quotation.
- ✓ **SERVICE is KING** ~ We pride ourselves on attention to detail. Your need is individual therefore every solution is custom built with the advice on product selection and installation that you need. If we don't think a product is suitable **WE WON'T SELL IT TO YOU.**
- ✓ **STOCK** ~ "I NEED IT NOW" is the industry standard request. We respond by stocking pumps from MOST MAJOR MANUFACTURERS in our warehouse so we can fulfil YOUR NEEDS and keep YOUR project ON TIME and ON BUDGET.
- ✓ **SUPPORT** ~ How often have you bought something only to be left with no support. That's NOT the Pump Technology way! Our comprehensive knowledge coupled with our unique service and technical support ensures COMPLETE CUSTOMER SATISFACTION.

And finally...

- ✓ **SPONSORSHIP** ~ We are a 'people business' supporting local people and charities. From the cricket teams and kids football to the Village Produce Show, School Fete and Duck Derby. We even sponsor RACEHORSES with a local trainer!

WELCOME TO PUMP TECHNOLOGY
IF YOU HAVE A CHALLENGING PUMPING APPLICATION
WE HAVE THE PEOPLE AND THE PRODUCTS
TO PROVIDE THE BEST SOLUTION.




Jeremy Brownlee
Managing Director
Pump Technology Ltd

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Dear Customer,

Our Catalogue really only gives an overview of our business.
Pump Technology Ltd is like a bespoke Tailor!

We assemble Pumps and Pumping Systems for Sewage and Waste/Foul Water Booster Sets/Systems to suit our Customers requirements. Our systems are for above or below ground applications. Our Tanks are made of GRP by a Group Company to a very high standard.

We are able to supply Pumps and fittings from most major manufacturers to suit your specific requirements.

Pump Technology Ltd. is a Main Distributor for the following (see websites)



www.pump-supermarket.co.uk



www.abs-pumpshop.co.uk



www.ksb-pumpshop.co.uk



www.wilo-pumpshop.co.uk



www.dab-pumpshop.co.uk



www.pumpsolutions.co.uk



www.drydeck.co.uk



www.ebara-pumpshop.co.uk

We can also supply pumps from many more manufacturers.



We are a bit old fashioned and love talking on the telephone! (We still have people who are able to communicate, other than in mobile phone text or email speak.) Sorting out Pump and Pump Systems is much easier over the telephone. We do not have a switchboard or voicemail. All phone calls are answered by a Human Being!!

TRY US OUT! We look forward to speaking to you soon.

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Tigers RFC**

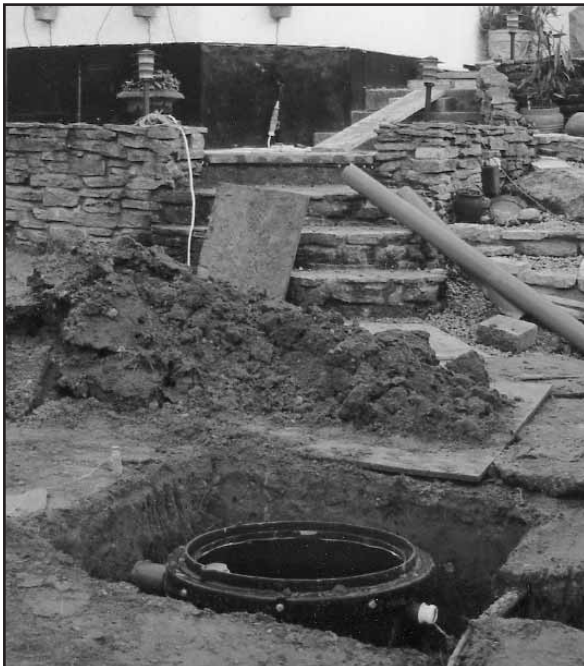


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THE PUMPMATIC™ RANGE

A BELOW GROUND PUMP SYSTEM DESIGNED AND ASSEMBLED TO SUIT YOUR REQUIREMENTS.



The various versions of the PUMPMATIC range shown here are **EXAMPLES ONLY**. There are dozens of pumps which can be used in each tank (depending on application).

The System would comprise of:-

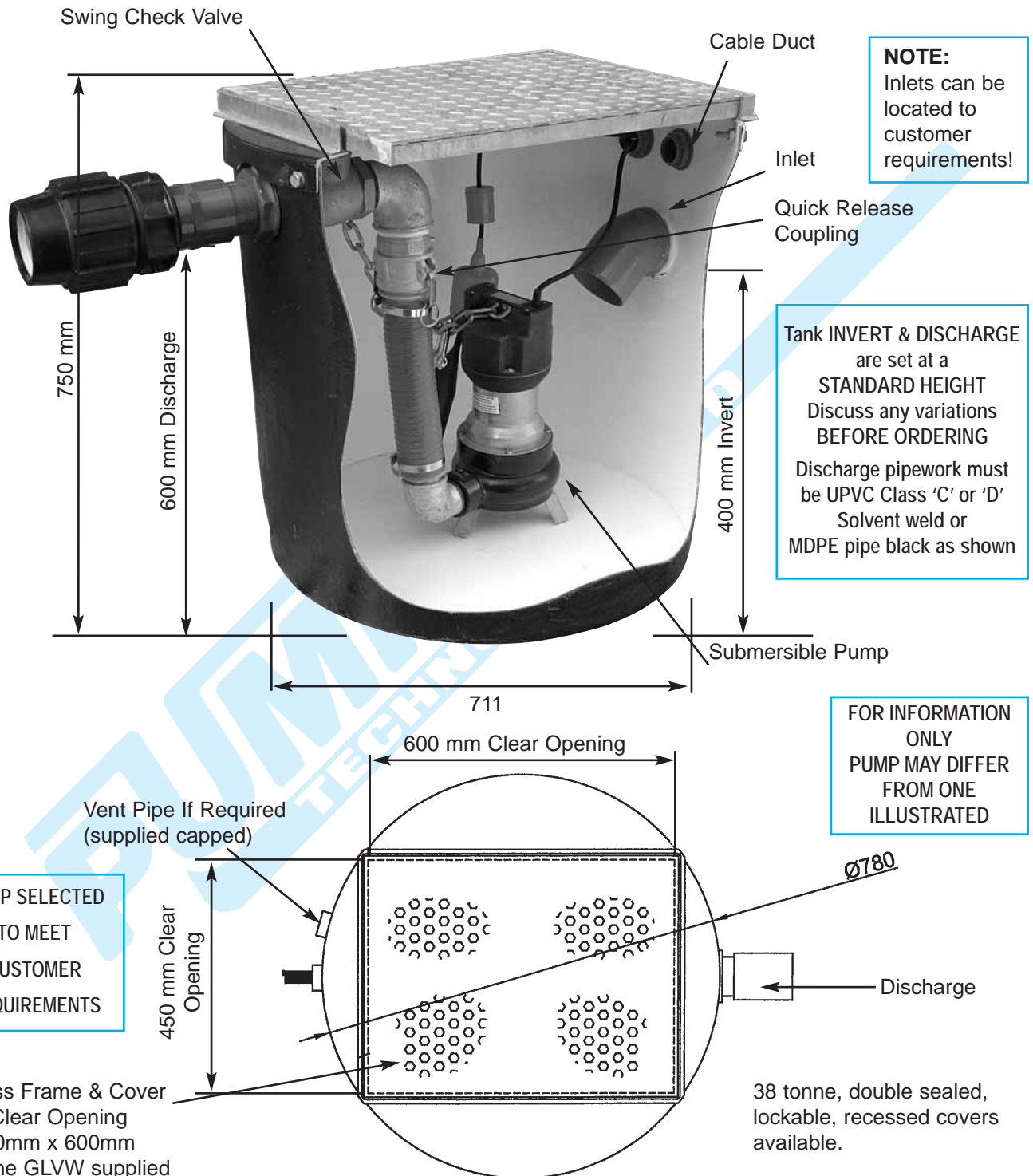
- **Pump Chamber** - Sized according to duty, holding requirements, building regulations, etc.
- **Pumps** - Single or Twin operation selected for duty, type of waste, distance and head.
- **Control Panel, Float Switches or probes & Alarms** - depending on requirements.
- **Access Cover** - Pedestrian/Vehicle weight or Double Sealed/lockable

Questions we might ask to get the right system for your application:-

- Is the application Domestic or Commercial?
- What will the system have to cope with? (whole property, annex, etc.)
- How many sinks, toilets, wash basins, washing machines, etc.
- Head and horizontal distance required to be pumped to main drains.
- Power supply available 240v or 3 Phase.



PUMPMATIC 75/750 Packaged Sewage Pumping System (single pump)



56 Youngs Industrial Estate, Aldermaston, Berks. RG7 4PW

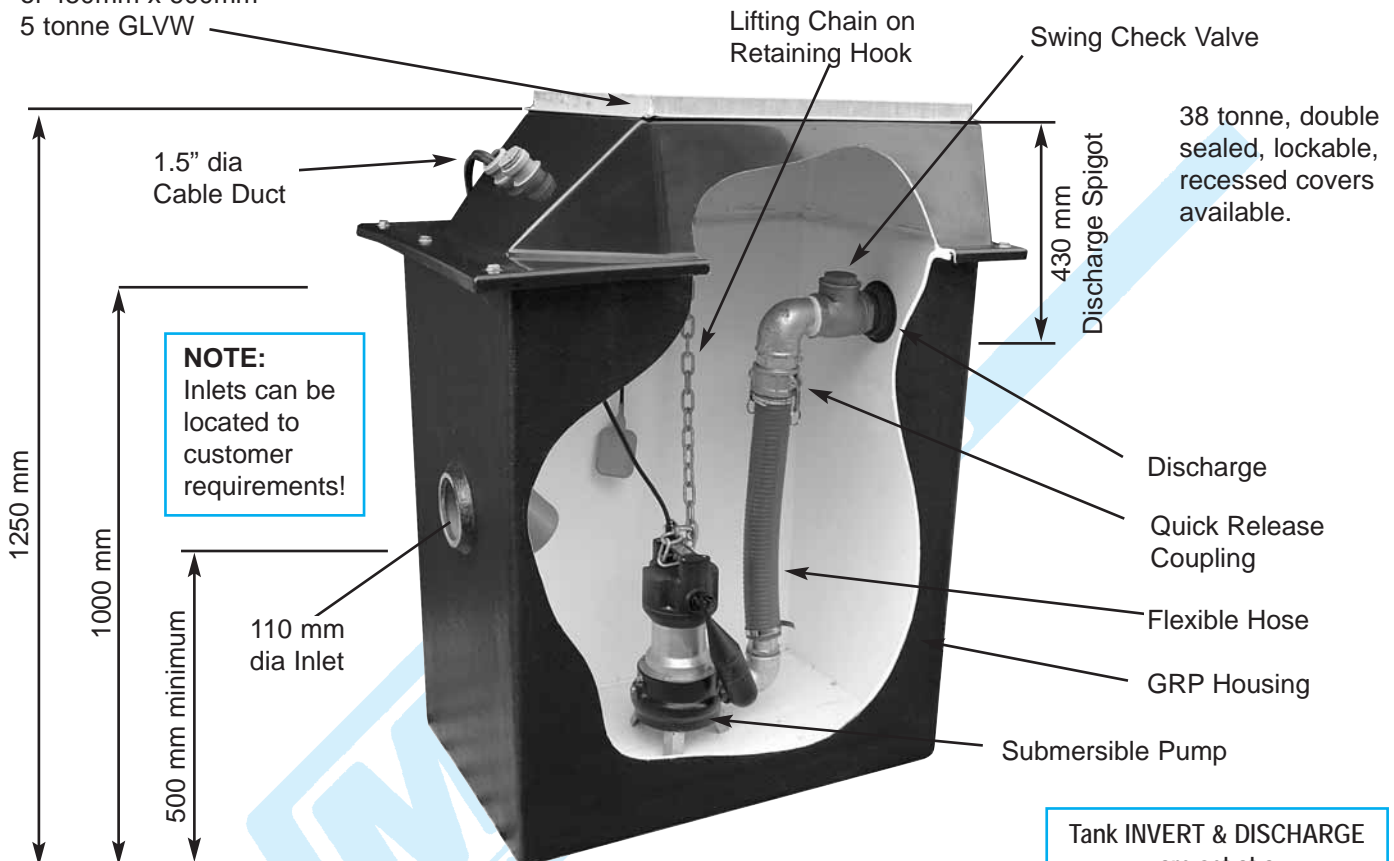
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Web Site: www.pumptechnology.co.uk

PUMPMATIC 100 Packaged Sewage Pumping System

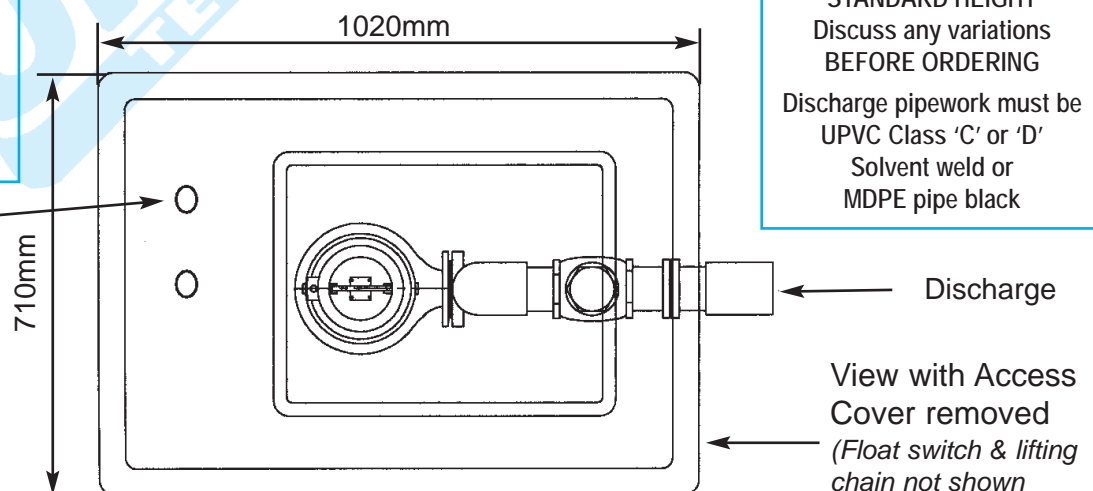
Access Frame & Cover
with Clear Opening
of 450mm x 600mm
5 tonne GLVW



FOR INFORMATION
ONLY
PUMP MAY DIFFER
FROM ONE
ILLUSTRATED

Extra Connection
fitted for Vent
Pipe

PUMP SELECTED
TO MEET
CUSTOMER
REQUIREMENTS



Due to a policy of continuous product improvement we reserve the right to alter specifications without notice.

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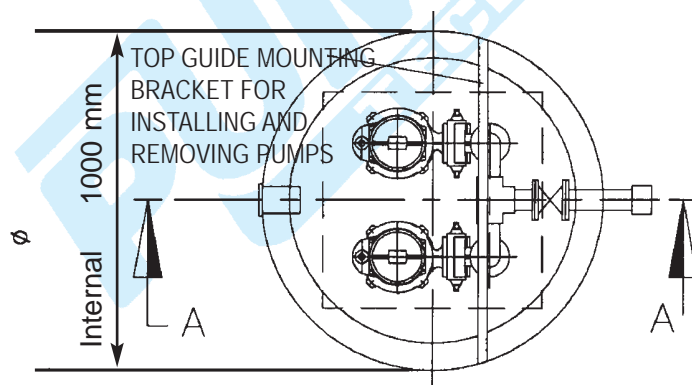
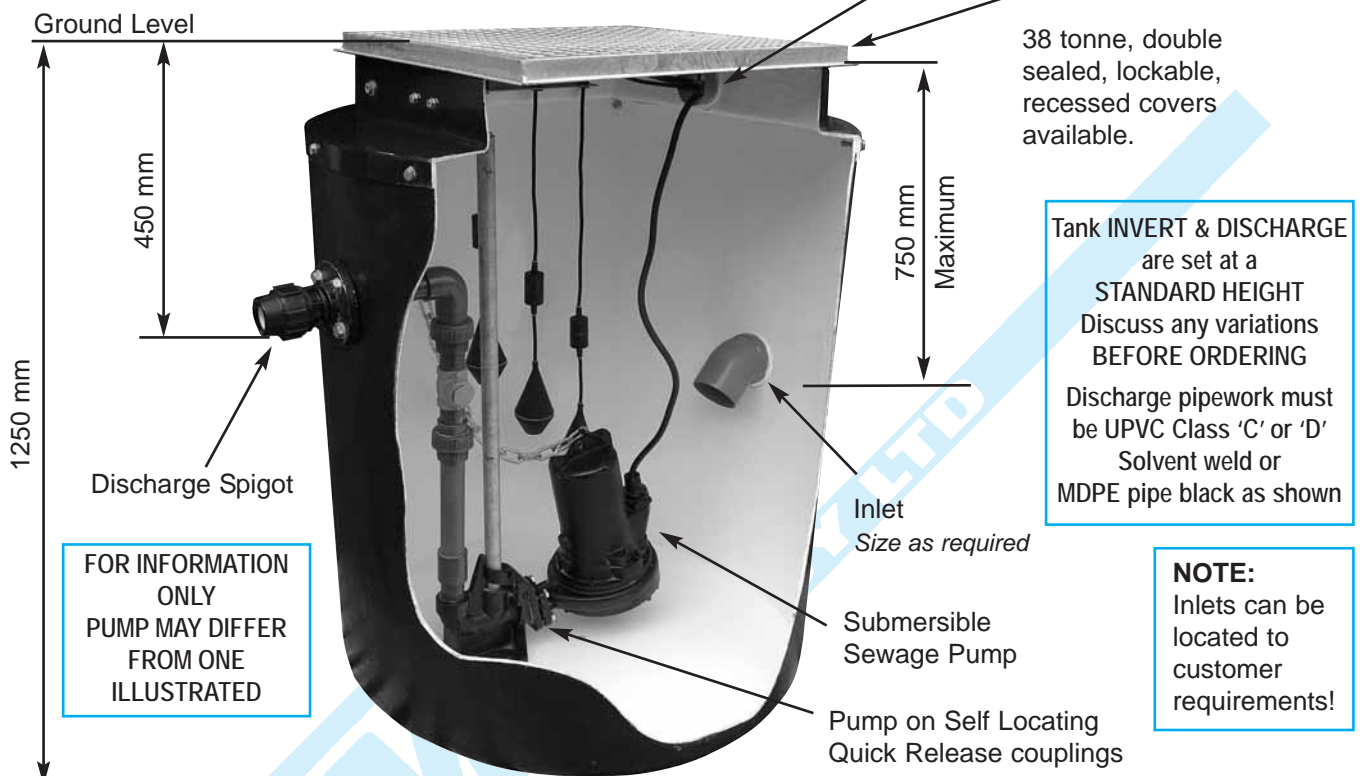
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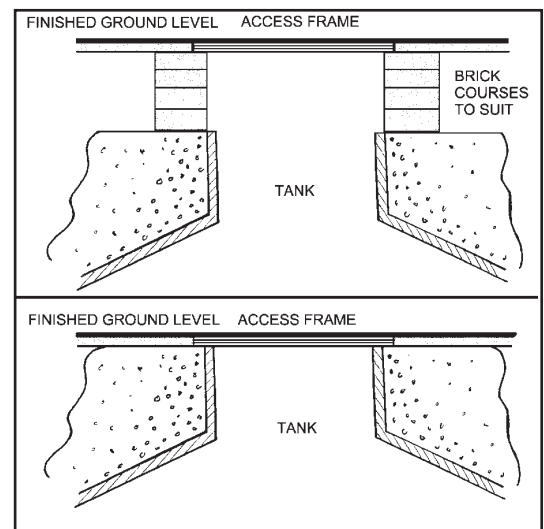
PUMPMATIC 125 Packaged Sewage Pumping System

PUMP SELECTED
TO MEET
CUSTOMER
REQUIREMENTS

SECTION A-A



SECTIONAL PLAN OF GRP TANK



Due to a policy of continuous product improvement we reserve the right to alter specifications without notice.

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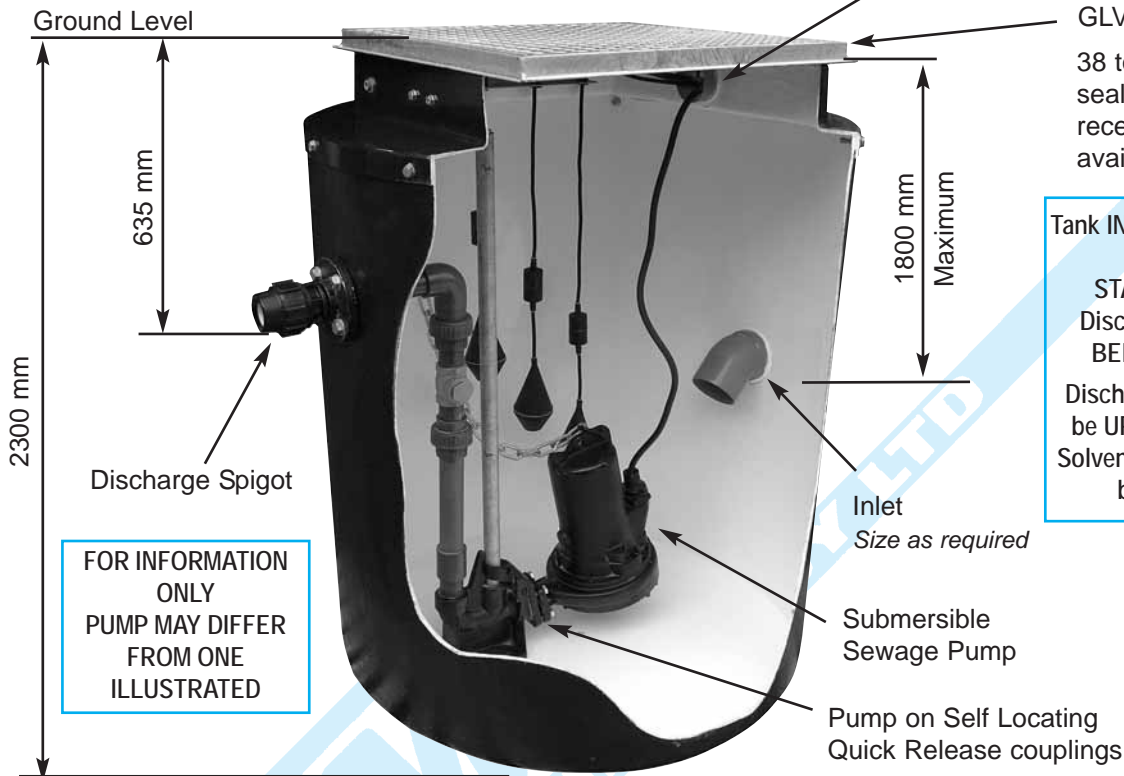
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Web Site: www.pumptechnology.co.uk

PUMPMATIC 200 Packaged Sewage Pumping System

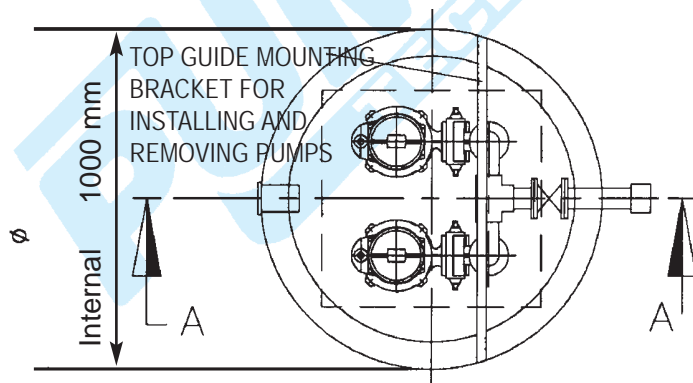
PUMP SELECTED
TO MEET
CUSTOMER
REQUIREMENTS

SECTION A-A

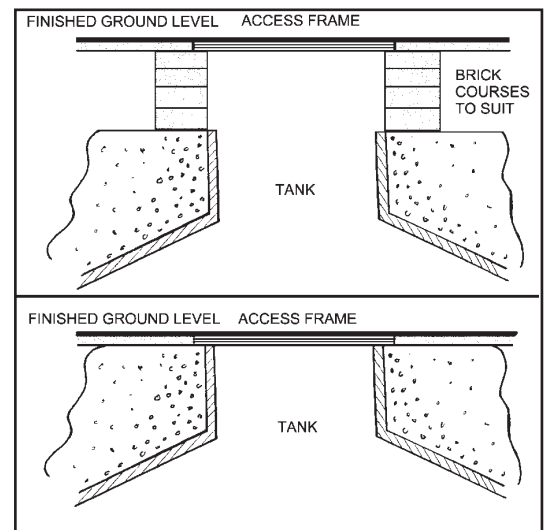


FOR INFORMATION
ONLY
PUMP MAY DIFFER
FROM ONE
ILLUSTRATED

NOTE:
Inlets can be
located to
customer
requirements!



SECTIONAL PLAN OF GRP TANK



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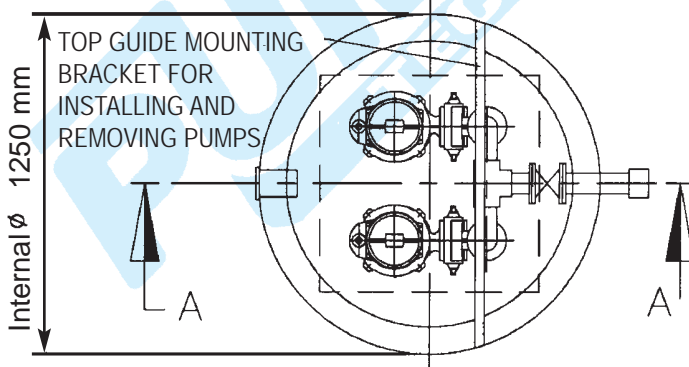
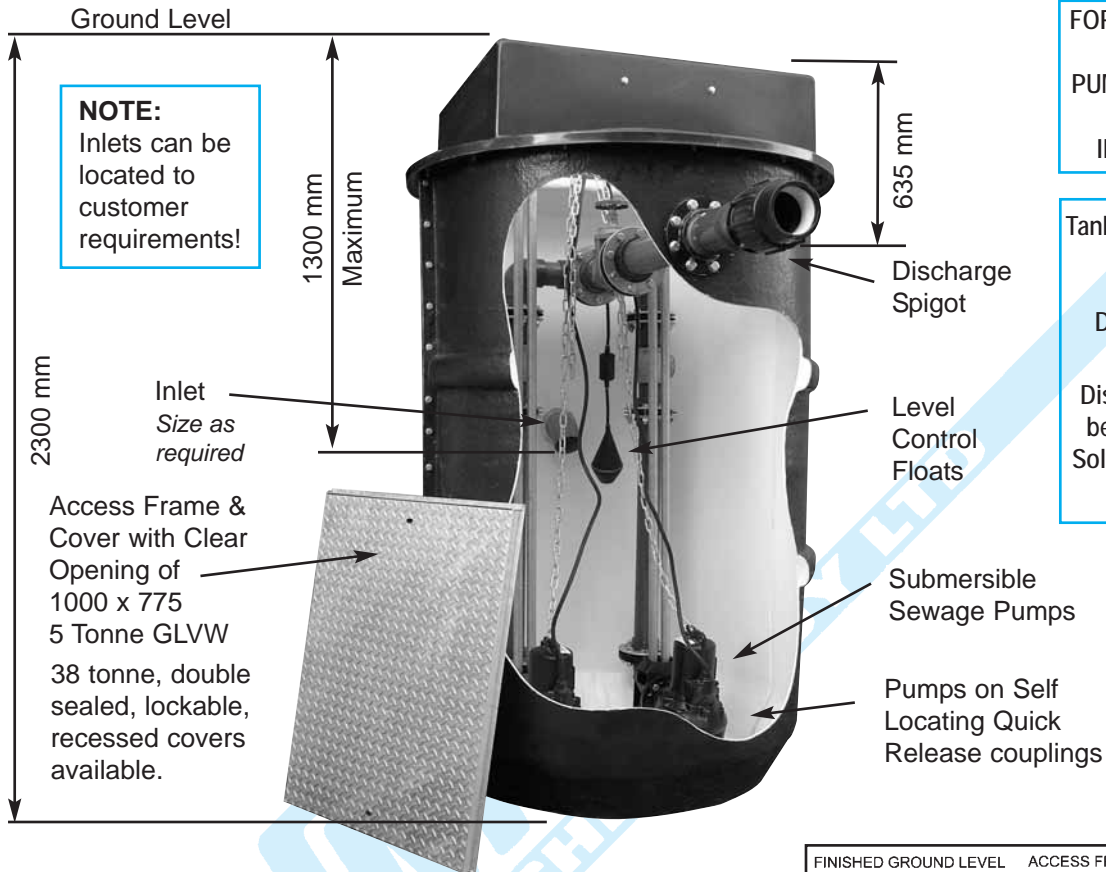
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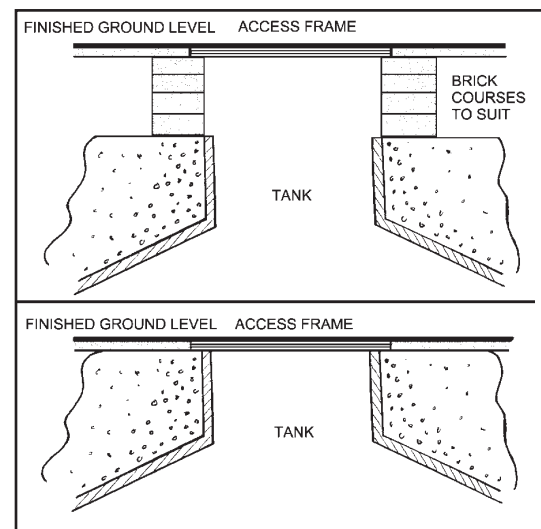
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PUMPMATIC 300 Packaged Sewage Pumping System

SECTION A-A



SECTIONAL PLAN OF GRP TANK



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PTL MULTIPROBE for water & wastewater

Probe fitted in Pump Technology
DRAIN KING Floor Mounted, Twin
Pump unit for pumping WASTE
WATER in COMMERCIAL
APPLICATIONS

Pump Technology MultiProbe for RELIABLE liquid level monitoring.

Reliable and cost-effective liquid level control system for the arduous and turbulent conditions encountered in COMMERCIAL WASTE WATER APPLICATIONS.

- Simple installation from outside of sump
- Easy visibility of start and stop points
- Unaffected by fat, grease, debris and foam
- Excellent in turbulent sumps
- Safe, low sensing voltage

The PTL MultiProbe probe has proved to be the most reliable and cost-effective liquid level control system available. It was designed for the arduous and turbulent conditions encountered in municipal wastewater.

10-sensor, 3-sensor or single sensor units are supplied in a variety of lengths. Custom versions are also available.

NOTE

If retrofitting a PTL MultiProbe unit check with Pump Technology Ltd Technical Staff on 0118 9821555

There are a "multitude" of different PTL MultiProbe systems!



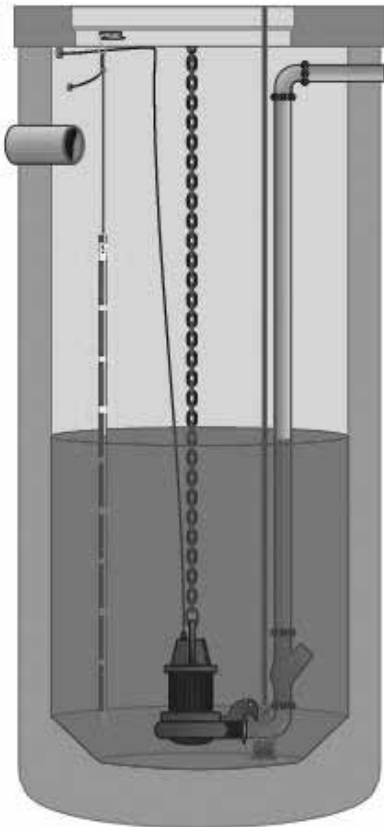
Level Control Unit **REPLACES** multiple float switches which require more maintenance due to Grease, Food & Laundry Particles in the water



NOTE For conventional float switches see pages 33 & 34

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PTL MULTIPROBE for water & wastewater



This is a Pump Technology PTL MultiProbe suspended in a Waste Water Pumping Station.

Simple to:
INSTALL, CLEAN & MAINTAIN



This probe was still fully operational despite the build-up. The operator is pulling the probe through the standard cleaning bracket to clean off the build-up.

What skills are needed to install a probe?

Only reading the instructions! Probe installation is easily achieved without the need to enter the wet area. The probe is simply lowered in from the top and suspended by its own cable, using the mounting kit supplied. Install near the inflow, not in the quietest part of the well!

How do I calibrate it?

No calibration required. No waiting for the well to empty and fill. You can choose the start, stop and alarm points and you can see where they are.

How much maintenance does it need?

Usually very little or none. Install it near the inflow and it stays relatively clean. If there is any build up, it occurs on the activation sensor and rarely affects the operation.

How reliable is it?

Ultra-reliable. There are no moving parts and no electronics, so it will last for 20+ years. That's why it gets a 10 year warranty.

No other level sensing device comes close.

What control devices can use it?

Anything that measures conductivity:

For lift stations underwater/wastewater utility control - try the MultiSmart Pump Station Manager

For smaller sumps and storm water applications with 2 pumps where no monitoring is required, try the MTDPC* pump controller

For 1 and 2 pump applications with no alternation use the MTIC*

For the simplest control, you can use the MTR* family of relays.

NOTE

If retrofitting a PTL MultiProbe unit check with Pump Technology Ltd Technical Staff on 0118 9821555

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THE EFFLU™ RANGE FLOOR MOUNTED PUMPING SYSTEMS

IMPORTANT:-

Advise your customers **NOT** to use **DOMESTIC MACERATORS** in **commercial and industrial situations** where toilets are to be used by numbers of people, e.g. offices, factories, restaurants, wine bars, pubs.

Domestic macerators are not designed to take tampons, nappy wipes, etc.

The capital cost of a floor-mounted sewage pumping station will be LESS than the ongoing maintenance costs of using domestic macerators.

PUMP TECHNOLOGY has a range of floor mounted sewage pumping systems for **commercial and industrial applications**.

Where one or more toilets have to be fitted in one location (with hand basins, urinals, utility sinks, etc.) then we recommend one of our systems.

Toilets can be manifolded together and brought to the pumping station, which can be sited at the same or lower level, or on the floor below.

These systems use vortex pumps which will cope with sanitary towels, tampons, etc. and are ideal in difficult situations. They are available in single and twin pump systems and will pump a vertical head of between 6 and 10 metres, depending on the system specified.

We also have floor mounted sewage pumping systems that use grinder/cutter pumps pumping to heads in **excess of 20 metres** using small bore pipework of 32/50 mm.

- **EFFLU MAXI™**
- **EFFLU GRINDER™**

The EFFLU MAXI™ 120 twin pump

Sewage disposal units with tough power that can be relied on!

**"EFFLU MAXI" 120 TWIN
PACKAGED SEWAGE
PUMPING UNIT WITH
FREEFLOW VORTEX PUMP**

APPLICATIONS

- PUBS, CLUBS & BARS
- HOTELS & RESTAURANTS
- FACTORIES
- SHOPS - OFFICES
- CINEMAS & THEATRES
- HOSPITALS

These systems have a large capacity 350 Ltr. tank and are designed specifically for commercial and industrial situations where toilets are to be used by a number of people and where domestic macerators / pumping systems are totally unsuitable.

The capital cost of purchasing a floor-mounted sewage pumping station will be more economical than the maintenance cost of using domestic pumping systems.

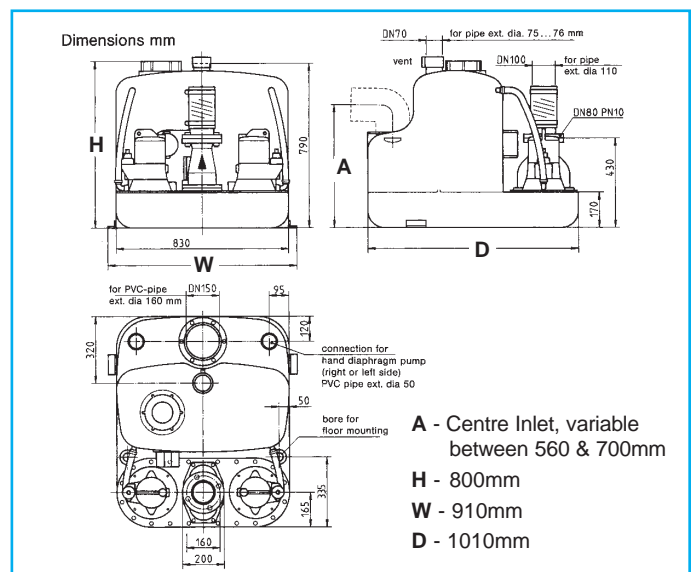
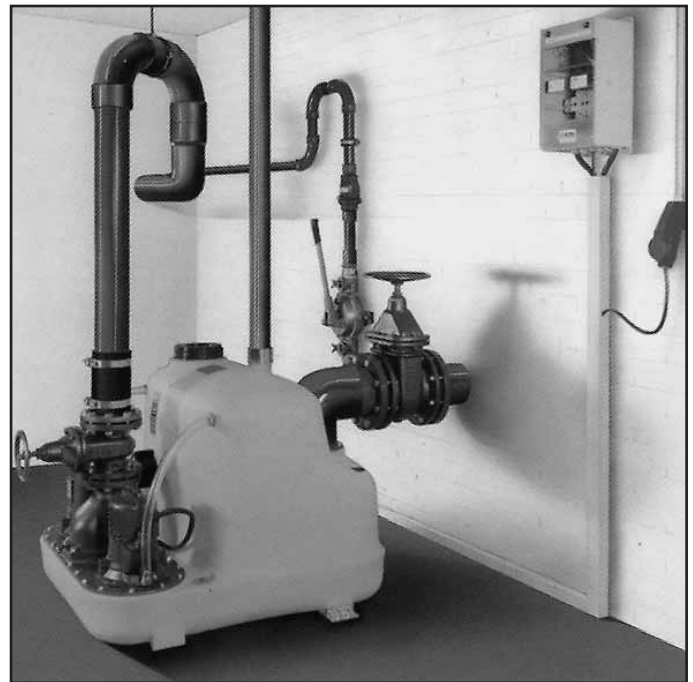
The **EFFLU MAXI** 120 range is ideal in situations where several toilets have to be fitted in one location (together with hand basins, urinals, kitchens and utility sinks).

The toilets can be manifolded together and brought into the pumping station, which can be sited on the same level, lower level or on the floor below.

EFFLU MAXI systems pump in 4" discharge pipework using non-clogging pumps with large free passage that ensures freedom from blockage.

The EFFLU MAXI 120 will pump to a vertical head of 6-18 metres depending on the system used.

DISCHARGE PIPEWORK: 4" uPVC Class C or D solvent weld (or copper, iron etc. as required)
VENT: 70mm vent to AIR/ATMOSPHERE is required (a **DURGO / AIR ADMITTANCE VALVE MUST NOT BE USED**) see **Microvent** page 36 if venting to air is a problem.



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TECHNICAL DATA

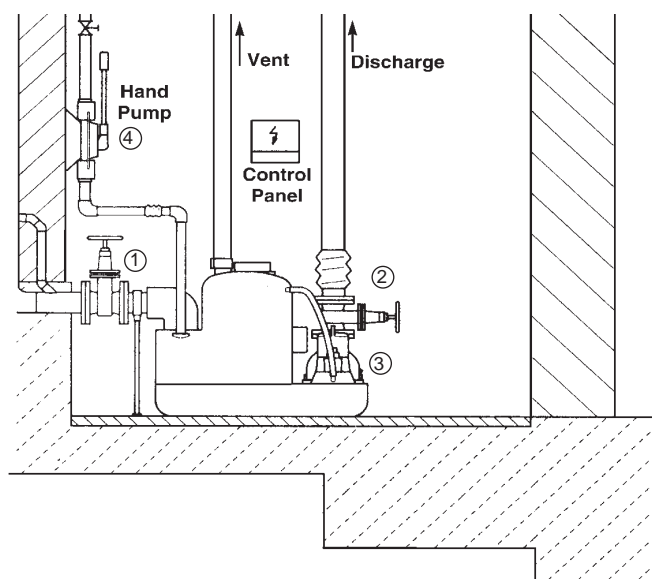
EFFLU MAXI 120 Twin

Type	Tank Capacity litres	Floor to Centre Inlet mm	Inlet Flange	Weight kg	Discharge Size	Vent Pipe mm
014	350	560	DN150	145	4"	70
514	350	560	DN150	147	4"	70
524	350	560	DN150	149	4"	70
522	350	560	DN150	151	4"	70
532	350	560	DN150	161	4"	70

Type	Supply	Voltage	Motor Rating kw input	Motor Rating kw output	Current Amperes	RPM
014E	single-phase	230	1.55	1.09	6.9	1442
014	3-phase	400	1.3	1.1	2.8	1410
514	3-phase	400	1.8	1.5	3.9	1385
524	3-phase	400	3.0	2.2	5.1	1310
522	3-phase	400	3.2	2.6	5.3	2750
532	3-phase	400	4.0	3.4	7.0	2875

For Flow Rates, see Page 35

NOTE: Motor Protection is included in the control panel



MOUNTING ARRANGEMENTS EFFLU MAXI 120 TWIN PUMP

Inlet Connection -
100mm clamped fitting flange

Discharge Connection -
100mm rubber sleeve and hose clamps connected to spigot flange.

It is recommended that a sluice (gate) valve) be fitted on the inlet and discharge side of the tank. A hand pump can be fitted if required.

Please contact our Technical Department about the use of grease traps if kitchen waste is to be pumped.

KEY

1. Sluice Gate Valve (inlet) - *optional*
2. Sluice Gate Valve (discharge) - *optional*
3. Reflux Valve Non Return - *supplied*
4. Hand Diaphragm Pump - *optional*

A feature of the EFFLU MAXI 120 is that the twin pumps have alternating duty cycles and if required they will operate on a duty/backup system to deal with peak flow conditions.

The unit can be supplied in a single pump version if required (EFFLU MAXI 80)

The EFFLU MAXI 120:

Consists of a Polyethylene tank complete with a discharge non return valve and couplings for all invert, discharge & vent connections including reflux (non return valve).

Both systems have a Control Panel with overload relay, high level alarm, lamp for rotation control and volt free contacts for connecting a remotely sited alarm device. Install Control Panel in dry area.

The **EFFLU MAXI** comes complete with a one year warranty. In the unlikely event of technical difficulties, please ring:

**Pump Technology Limited on
01189 821555**

Other products in the series include:

**EFFLU MAXI 80 Single and Twin & EFFLU
GRINDER** Sewage Disposal units.

The EFFLU MAXI™ range

Powerful Floor Mounted Sewage Disposal and Waste Water Pumping Systems that can be relied on!

APPLICATIONS

- SHOPS & OFFICES
- FACTORIES
- CINEMAS & THEATRES
- HOSPITALS
- HOTELS & RESTAURANTS
- PUBS, CLUBS & BARS

These Single & Twin Pump systems are designed specifically for commercial and industrial situations where toilets are to be used by a number of people and where domestic macerators/pumping systems are totally unsuitable.

The capital cost of purchasing a floor-mounted sewage pumping station will be more economical than the maintenance cost of using several domestic pumping systems.

The **EFFLU MAXI** range is ideal in situations where one or several toilets have to be fitted in one location (together with hand basins, urinals, kitchens and utility sinks).

The toilets can be manifolded together and brought into the pumping station, which can be sited on the same level (1 in 40 fall), lower level or on the floor below.

EFFLU MAXI systems pump in 3" or 4" discharge pipework using non clogging pumps with large free passage that ensures freedom from blockage.

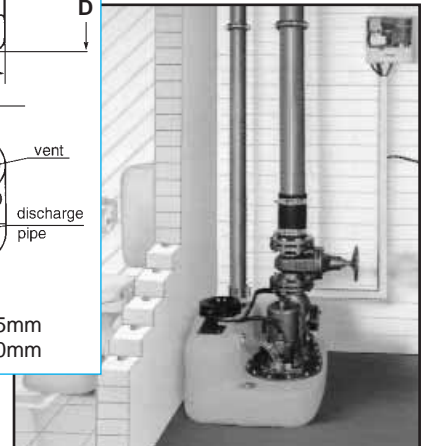
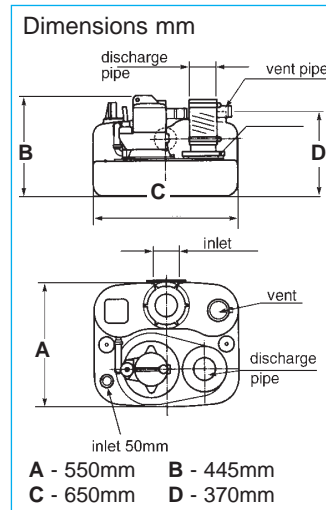
The unit can be supplied as a single or twin pump systems, it will pump to a vertical head of 6 -10 metres depending on the system used.

DISCHARGE PIPEWORK:

3" uPVC Class C or D solvent weld (or copper, iron etc. as required)

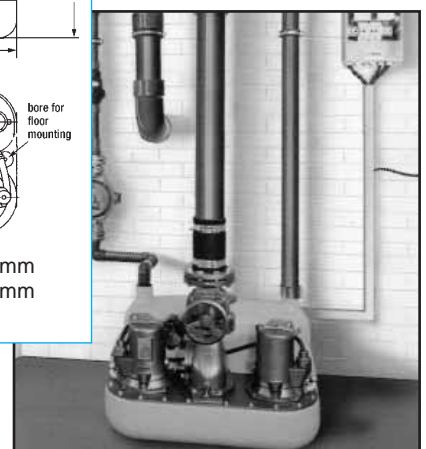
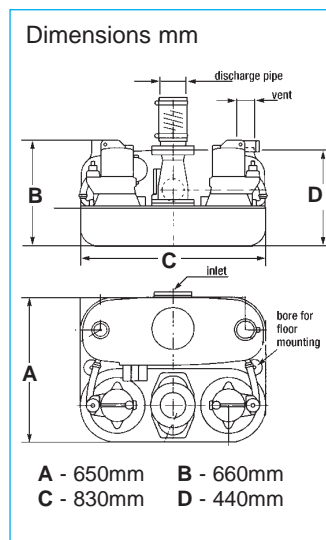
VENT: 70mm vent to AIR/ATMOSPHERE is required (a **DURGO / AIR ADMITTANCE VALVE MUST NOT BE USED**) see **Microvent** page 36 if venting to air is a problem.

"EFFLU MAXI" 80 SINGLE PACKAGED SEWAGE PUMPING UNIT WITH FREEFLOW VORTEX PUMP



Delivery Head/m	1	2	3	4	5	6
Maxi 80 Single	54	45	37	30	22	15

"EFFLU MAXI" TWIN PACKAGED SEWAGE PUMPING UNIT WITH FREEFLOW VORTEX PUMP



TECHNICAL DATA EFFLU MAXI 80 Single

Type	Tank Capacity litres	Floor to Centre Inlet mm	Inlet Flange	Weight kg	Discharge Size	Vent Pipe mm
80 E Single	50	180	DN100	64	3" or 4"	70
80 D Single	50	180	DN100	64	3" or 4"	70

Type	Supply	Voltage	Motor Rating kw input	Motor Rating kw output	Current Amperes	RPM
80E	1-phase	230	1.55	1.09	6.9	1440
80D	3-phase	400	1.25	87	2.2	1390

For Flow Rates, see Page 35

Also available with 250mm floor to centre inlet if required

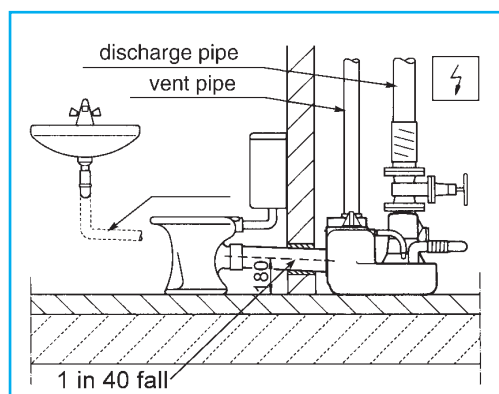
EFFLU MAXI 80 Twin

Type	Tank Capacity litres	Floor to Centre Inlet mm	Inlet Flange	Weight kg	Discharge Size	Vent Pipe mm
80 D or E twin	100	250	DN100	140	3" or 4"	70
80/51 D twin	100	250	DN100	140	3" or 4"	70
80/52 D twin	100	250	DN100	140	3" or 4"	70

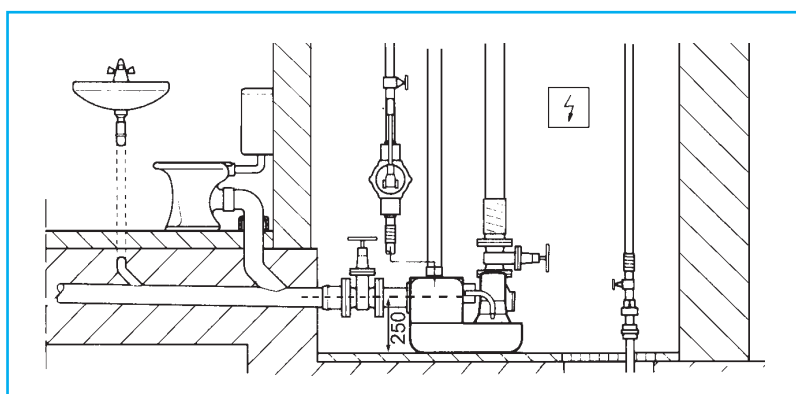
Type	Supply	Voltage	Motor Rating kw input	Motor Rating kw output	Current Amperes	RPM
80 twin	1-phase	230	1.55	1.09	6.9	1442
80 twin	3-phase	400	1.30	1.10	2.8	1451
80/51 twin	3-phase	400	2.20	1.70	3.9	1405
80/52 twin	3-phase	400	3.00	2.20	5.1	1363

For Flow Rates, see Page 35

Also available with 315mm floor to centre inlet if required



**MOUNTING ARRANGEMENTS
EFFLU MAXI 80 SINGLE PUMP**



**MOUNTING ARRANGEMENTS
EFFLU MAXI 80 TWIN PUMP**

The **EFFLU MAXI**:

Consists of a Polyethylene tank complete with a discharge non return valve and couplings for all invert, discharge & vent connections including reflux (non return valve).

Both systems have a Control Panel with overload relay, alarm device, high level alarm and volt free contacts for remote alarm.

The twin pump unit is equipped with a Control Panel giving duty changeover, duty assist and duty standby on the pumps. Install in a dry area.

The **EFFLU MAXI** comes complete with a one year warranty. In the unlikely event of technical difficulties, please ring:

**Pump Technology Limited on
01189 821555**

See also:

EFFLU GRINDER

Single Pump Sewage Disposal unit. Pages 17 & 18

Due to a policy of continuous product improvement we reserve the right to alter specifications without notice.

The EFFLU GRINDER 10

High Head pumping unit
will pump up to
32 metres vertically.

APPLICATIONS

- SHOPS & OFFICES
- FACTORIES
- CINEMAS & THEATRES
- HOSPITALS
- HOTELS & RESTAURANTS
- PUBS, CLUBS & BARS

These systems are designed specifically for commercial and industrial situations where toilets are to be used by a number of people and where domestic macerators/pumping systems are totally unsuitable.

This unit has been designed specially for the disposal of sewage on difficult applications where small bore pipework is necessary or high pumping heads required, due to static height or long pumping main.

The **EFFLU GRINDER** range is ideal in situations where one or two toilets have to be fitted in one location (together with hand basins, urinals, kitchens and utility sinks).

The toilets can be manifolded together and brought into the pumping station, which can be sited on a lower level, 1 in 40 fall, or on the floor below.

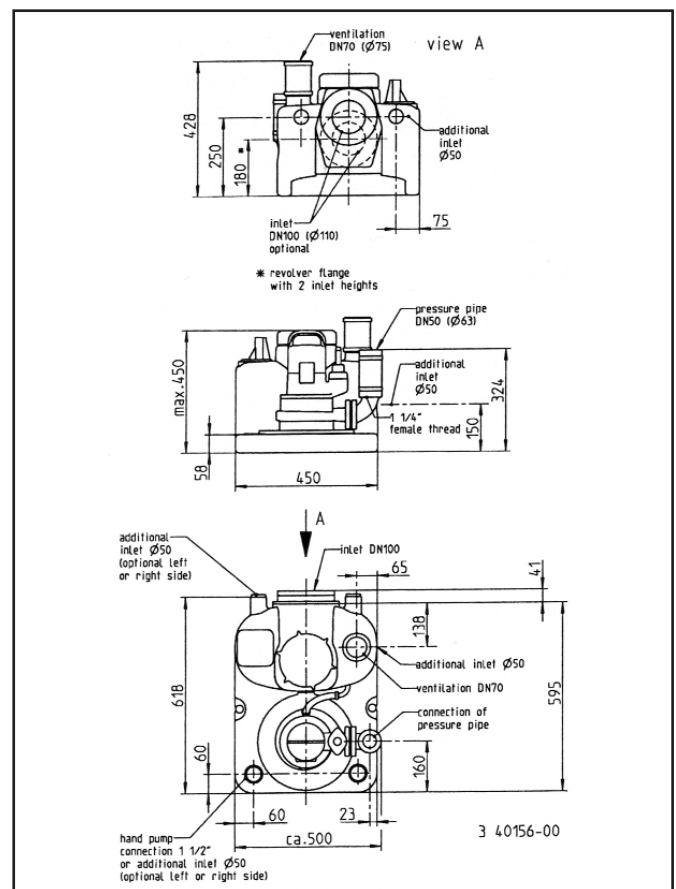
EFFLU GRINDER systems pump in 2" discharge pipework using a powerful cutter pump.

DISCHARGE PIPEWORK:

2" uPVC Class C or D solvent weld (or copper, iron etc. as required)

VENT: 70mm vent to AIR/ATMOSPHERE is required (a **DURGO / AIR ADMITTANCE VALVE MUST NOT BE USED**) see MICROVENT page 36 if venting to air is a problem.

"EFFLU GRINDER 10"
SINGLE PACKAGED SEWAGE
PUMPING UNIT
WITH POWERFUL
CUTTER PUMP



56 Youngs Industrial Estate, Aldermaston, Berks. RG7 4PW

Tel: 01189 821555 Fax: 01189 821666

E-mail: support@pumptechnology.co.uk

Web Site: www.pumptechnology.co.uk

TECHNICAL DATA EFFLU GRINDER 10

EFFLU GRINDER TYPE	Tank Capacity -Litres	Floor to Centre Inlet	Inlet Flange	Weight kg max.
10/82	38	180 & 250	100mm	41
10/52	38	180 & 250	100mm	52
10/53	38	180 & 250	100mm	52

PERFORMANCE

EFFLU GRINDER TYPE	Voltage	Motor Rating KW in - KW out		Current Ampere	Motor Protection	RPM	Vent
10/82E	230	1.7	1.14	7.5	in Control Panel	2584	70mm
10/82	400	1.65	1.24	2.8	in Control Panel	2694	70mm
10/52	400	2.6	2.1	4.4	in Control Panel	2800	70mm
10/53	400	3.7	3.1	6.6	in Control Panel	2885	70mm

DESCRIPTION

Pump: Single stage vertical centrifugal pump, with open 3-blade impeller, horizontal 1½" flanged discharge branch, and adjustable Multicut cutting system.

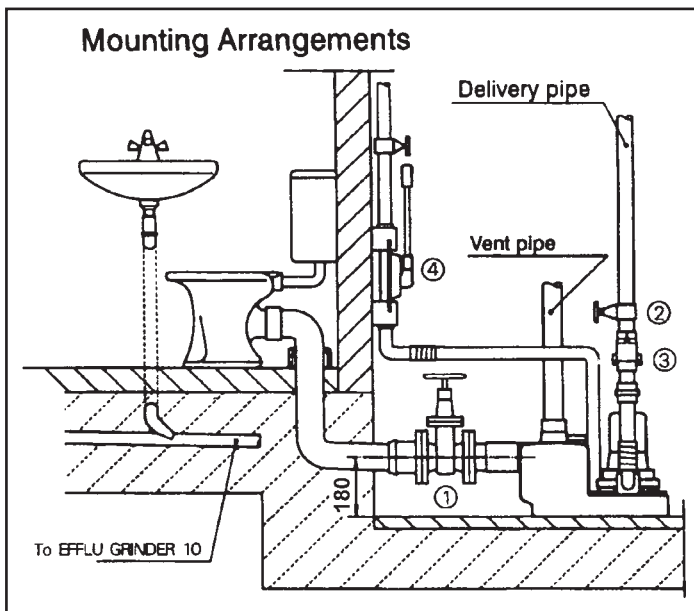
Shaft/Bearings: Combined pump/motor shaft, protected against contact with pumped liquid, and rotating in grease-packed ball bearings.

Shaft seal: Oil-filled seal chamber between pump and stator casing with wear-resistant silicone carbide primary seal with dry running properties and duplex lip seal as secondary seal.

Motor: Submersible motor with "dry" type stator windings class F insulation, watertight cast iron enclosure (IP 68) supplied with multicore flexible cable with polychloroprene outer sheath. The pumps are also available with explosion-proof motors (EEEx dII BT4) in accordance with German specification V.D.E. 0171.

Materials: Cast iron pump and motor casings and impeller, corrosion protected shaft (no contact with pumped liquid) stainless steel hardened (HRC 57) cutting system.

Maintenance is extremely simple: the tank has a top mounted inspection/cleaning aperture and, if necessary, the pumping unit can be removed/replaced in minutes and without disturbing the tank assembly.



The GRINDER System

The liquid flows into the impeller through a rigid, perforated cutter plate in which apertures are tapered to improve the suction performance.

The sharpened three bladed cutter, rotating in front of the inlet, shears any solids present. The impeller passes these through a counterflow system in the wear plate, then into the volute casing and out through the pump discharge.

The cutter plate rejects any material such as stones or metal that it is unable to cut. The combined cutting and pumping system gives trouble-free, low-cost sewage disposal even with difficult ground conditions.

KEY

1. Sluice Gate Valve / (inlet) - *optional*
2. Sluice Gate Valve / (discharge) - *optional*
3. Reflux Valve / Non Return Valve - *supplied*
4. Hand Diaphragm Pump - *optional*

The EFFLU GRINDER 10:

Consists of a Polyethylene tank complete with a discharge non return valve and couplings for all invert, discharge & vent connections including reflux (non return valve).

The entire unit is damp and flood-proof and thus ideally suited to placing in unventilated areas or basements subject to accidental flooding.

It incorporates a Control Panel with overload relay, alarm device, high level alarm and volt free contacts for remote alarm. **Install Control Panel in dry area.**

The **EFFLU GRINDER 10** comes complete with a one year warranty. In the unlikely event of technical difficulties, please ring:

**Pump Technology Limited on
01189 821555**

Other products in the series include:

EFFLU MIDI, EFFLU MACRO & EFFLU MAXI
Single Pump Sewage Disposal units.

DRAIN-KING™ 730/1030

Waste Water Pumping System using Dual pumps

The Solution for for Commercial Kitchens with Multiple Sinks, Dishwashers and Glasswashers where there is no access to conventional gravity fed drains.

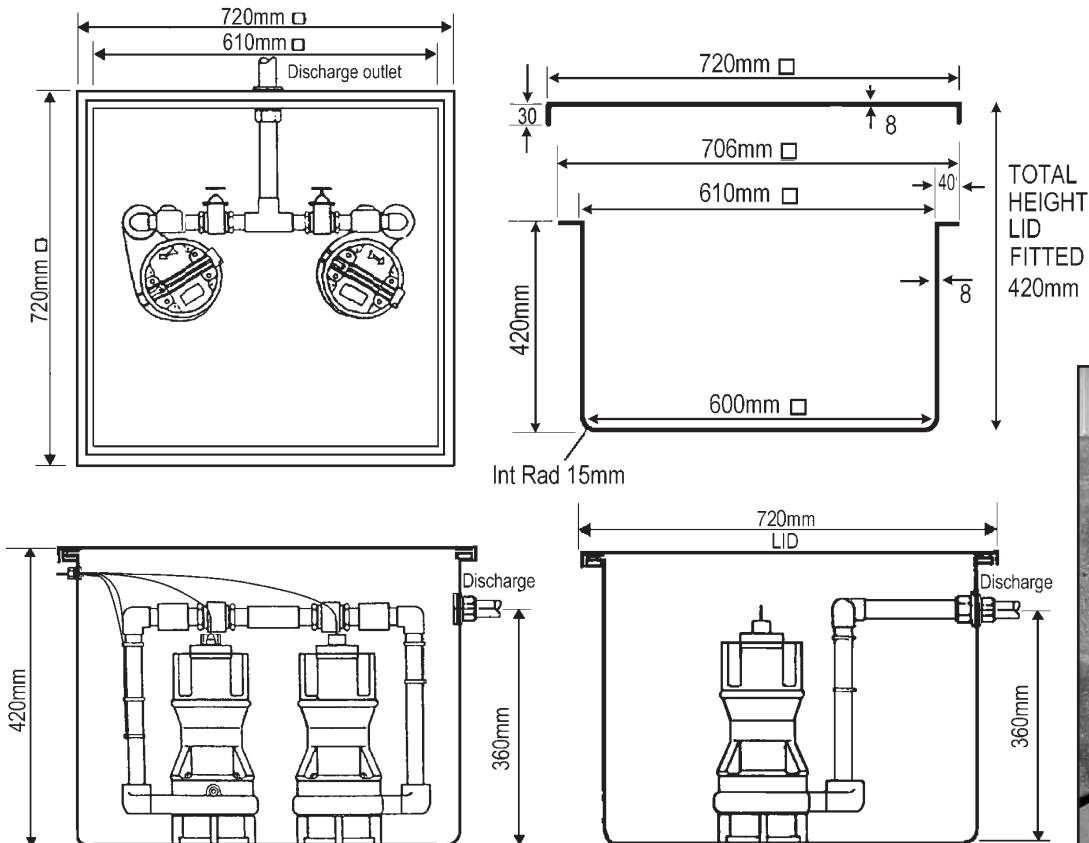
This unit is **SPECIALLY DESIGNED** to pump waste water from commercial/industrial kitchen sinks (with waste disposal units), commercial dishwashers, glasswashers, washing machines and utility/cleaners sinks. The system is **DESIGNED TO HANDLE VERY HOT WATER** from commercial pumped appliances (i.e. dishwashers using 'H' version pumps).

The **DRAIN-KING 730/1030** will pump waste water containing solids up to 30mm in size such as food particles. The pump has been specifically designed to handle stringy and fibrous waste in suspension.

- RESTAURANTS
- PUBS/CLUBS
- FACTORIES
- SHOPS
- WAREHOUSES
- SCHOOLS
- CINEMAS
- THEATRES
- HOSPITALS
- OFFICES

FEATURES INCLUDE

- ✓ PUMPS UP TO 8m/10m VERTICALLY
- ✓ 30 mm SOLIDS HANDLING CAPACITY
- ✓ RATED FOR CONTINUOUS OPERATION
- ✓ MECHANICAL SEAL (DOUBLE SILICONE CARBIDE)
- ✓ COMPLETE, READY TO INSTALL
- ✓ EASY INSTALLATION
- ✓ CONTROL PANEL (C/W HIGH LEVEL ALARM)



CONTROL GEAR:

The Twin Pump System has a Control Panel that gives:

- duty changeover
- standby
- assist
- high level alarm and volt free contacts for adding a remote alarm facility.



56 Youngs Industrial Estate, Aldermaston, Berks. RG7 4PW

Tel: 01189 821555 Fax: 01189 821666

E-mail: support@pumptechnology.co.uk

Web Site: www.pumptechnology.co.uk

DRAIN-KING 730/1030: This consists of a durable tank manufactured from polyester/glass fibre (GRP) laminate, fully rigged with internal pipework, non return valves etc. for Single or Twin Pumps.

QUALITY: The tank is pigmented throughout with an externally smooth isophthalic polyester gel coat and resin enriched lining.

DISCHARGE OUTLETS: Have a 2" Male BSP male thread outlet.

INVERTS: See Installation Notes.

PUMP Type PTL730/1030: Vertical single-stage, submersible with free inlet, volute casing with 1½" (female) pressure branch, open centrifugal impeller, (30 mm solids handling capacity).

Motor: Submersible, oil filled motor, type of enclosure IP68, insulation class B, starting via plug or automatic circuit.

Materials: Spiral casing in cast iron - Terminal board, hood, impeller, wear plate made of GRP. Motor casing and shaft of stainless steel, supply through rubber insulated flexible cable.

Bearings: Common shaft for pump and motor, mounted in ball bearings.

Shaft Seal: Silicon carbide mechanical seal, oil chamber and double shaft seal towards the motor section, safe to run dry.

PTL 730 'H' version available for extremely hot water. Check specifications with our Technical Department.



The **DRAIN-KING 730/1030** comes complete with a one year warranty. In the unlikely event of technical difficulties, please ring:
Pump Technology Limited on 01189 821555

IMPORTANT: This unit is not designed to handle sewage. Please enquire about our packaged sewage pumping systems.

Technical Data (50 Hz)							
Type	Voltage	P1	P2	F.L.C.	RPM	Overload Protection	Max. Solids Size
PTL 730E	single phase 230 V	0.83kW	0.50kW	3.9A	2500	Incorporated in motor (thermostat)	30mm
PTL 730D	3-phase 400V	0.85kW	0.60kW	1.4A	2800		30mm
PTL 1030E	single phase 230 V	1.37kW	0.98kW	6.0A	2700		30mm
PTL1030D	3-phase 400V	1.36kW	1.06kW	2.4A	2740		30mm

For Flow Rates, see Page 35

Depending on the working environment of the **DRAIN-KING**, it may be advisable to fit a grease trap/interceptor. Please seek advice from our technical department. **Phone 01189 821555 for further information.**

INSTALLATION DRAIN-KING 730/1030 *Installers please note. (use solvent weld or copper pipe)*

COMMISSIONING: It is **ESSENTIAL** that a Twin Pump System is commissioned by Pump Technology engineers after installation. Please discuss details with our Technical Department.

1. Remove lid from tank, check pump is correctly positioned and connecting pipework has not been damaged in transit.
2. All inverts should be brought into the tank by drilling a hole and using an appropriate tank connector.
3. All inverts should be brought into the tank (using tank connectors) at the highest possible level from the floor - i.e. no lower than 260 mm from centre of hole to floor.
4. Preferably no connections through the lid as this inhibits easy removal of the lid for cleaning tank. (Note: tank should be positioned in such a way that lid can be removed easily for maintenance.)
5. Ensure that the inflow of water is not directed onto the float mechanism.
6. Slow radius bends **MUST** be used for every change of direction of the discharge pipework.
7. If the discharge pipework connects to a soil stack, manhole etc. below the discharge outlet of the tank, an anti-siphon unit **MUST** be fitted to the highest point of the discharge pipework.
8. The tank should be positioned so that the lid can be removed for easy access to pump and tank interior for cleaning.

VENTING TO AIR: THE TANK MUST BE VENTED TO AIR (1¼" MIN.). **DO NOT USE A DURGO / AIR ADMITTANCE VALVE.** IF GLASSWASHERS OR COMMERCIAL/INDUSTRIAL DISHWASHERS/WASHING MACHINES ARE USED IT IS RECOMMENDED THAT AT LEAST A 2" VENT IS TAKEN TO AIR. (IF YOU WISH TO DISCUSS YOUR PARTICULAR APPLICATION WITH REGARD TO VENTILATION PLEASE CONTACT OUR TECHNICAL SALES DEPARTMENT.)

MAINTENANCE:

The DRAIN-KING 730/1030 should have the lid REGULARLY removed for CLEANING of the Tank and Pump

Due to a policy of continuous product improvement we reserve the right to alter specifications without notice.

DRAIN-KING™ 60

Waste Water Pumping System using Dual pumps

This unit is designed to pump waste water from Commercial/Industrial sinks, wash basins, utility sinks or any situation where waste water needs to be collected and pumped to the drainage system.

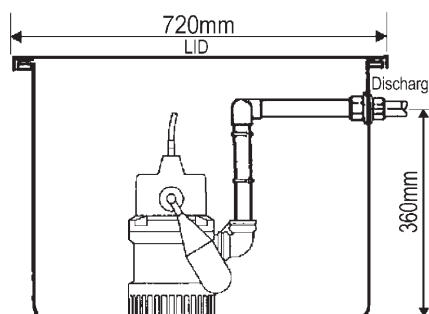
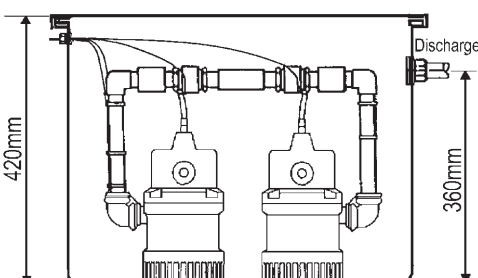
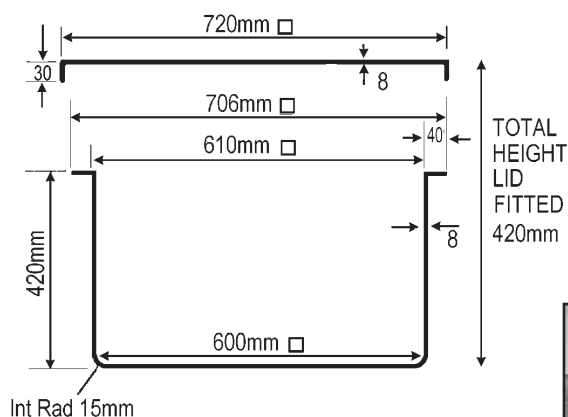
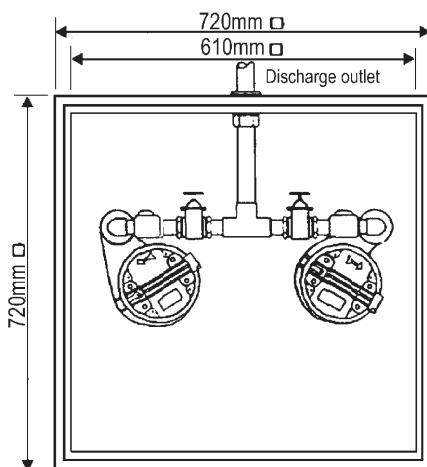
It has been SPECIALLY constructed to handle very hot water from commercial dishwashers, washing machines and glasswashers, unlike other waste water pumping systems which are unable to cope with such hot water.

For larger and busier Commercial Kitchens with multiple sinks, dishwashers, glasswashers etc., please use our **DRAIN-KING 730** Twin Pump System, which is designed to handle 30mm solids and will cope with waste disposal units.

- OFFICES
- WAREHOUSES
- FACTORIES
- PUBS/CLUBS
- HOTELS & NURSING HOMES
- CINEMAS
- HOSPITALS
- RESTAURANTS
- SHOPS

FEATURES INCLUDE

- ✓ PUMPS UP TO 8m VERTICALLY
- ✓ 10 mm SOLIDS HANDLING CAPACITY
- ✓ CONTROL PANEL (C/W HIGH LEVEL ALARM)
- ✓ RATED FOR CONTINUOUS OPERATION
- ✓ MECHANICAL SHAFT SEAL (SILICONE CARBIDE)
- ✓ COMPLETE, READY TO INSTALL



The **twin pump** unit is equipped with a control panel giving

- duty changeover
- duty assist/standby on the pumps as well as
- High Level Alarm & volt free contacts.



56 Youngs Industrial Estate, Aldermaston, Berks. RG7 4PW

Tel: 01189 821555 Fax: 01189 821666

E-mail: support@pumptechnology.co.uk

Web Site: www.pumptechnology.co.uk

DRAIN-KING 60: This consists of a durable tank manufactured from polyester/glass fibre (GRP) laminate, fully rigged with internal pipework, non return valves etc. for Single or Twin Pumps.

QUALITY: The tank is pigmented throughout with an externally smooth isophthalic polyester gel coat and resin enriched lining.

DISCHARGE OUTLETS: Have a 1½" BSP male thread outlet.

PUMP Type PTL60: Vertical centrifugal type, single stage for submerged operation, with strainer base, open impeller (10 mm solids handling capacity).

Motor: Fully encapsulated submersible motor with built-in overload/thermal cut-out, watertight (IP68) enclosure, class B insulation. Supplied with built-in level switch.

Pump Casing: Plastic GFK pump body, top cover and GRP impeller, stainless steel encapsulated motor.

Bearings: Combined shaft for motor and pump, mounted in grease lubricated ball bearings.

Shaft Seal: Pump end: silicon carbide mechanical seal, unaffected by dry running.

Fitted with mechanical seal and oil buffer chamber, the pumps will give reliable service for long periods with minimum supervision and maintenance, apart from regular cleaning of the tank and pump strainer.

The Twin Pump System has a Control Panel that gives duty changeover, standby, assist, high level alarm and volt free contacts for adding a remote alarm facility.



The **DRAIN-KING 60** comes complete with a one year warranty. In the unlikely event of technical difficulties, please ring:
Pump Technology Limited on 01189 821555

COMMISSIONING: It is ESSENTIAL that a Twin Pump System is commissioned by Pump Technology engineers after installation. Please discuss details with our Technical Department.

IMPORTANT: This unit is not designed to handle sewage. Please enquire about our packaged sewage pumping systems.

Technical Data (50 Hz)							
Type	Voltage	P1	P2	F.L.C.	RPM	Overload Protection	Max. Solids Size
PTL 60E	single phase 230 V	0.70kW	0.45kW	3.4A	2600	Incorporated in motor (thermostat)	10mm
PTL 60D	3-phase 400V	0.75kW	0.60kW	1.3A	2800		10mm

For Flow Rates, see Page 35

Depending on the working environment of the **DRAIN-KING**, it may be advisable to fit a grease trap/interceptor. Please seek advice from our technical department. **Phone 01189 821555 for further information**

INSTALLATION DRAIN-KING 60 *Installers please note. (use solvent weld or copper pipe)*

COMMISSIONING: It is ESSENTIAL that a Twin Pump System is commissioned by Pump Technology engineers after installation. Please discuss details with our Technical Department.

1. Remove lid from tank, check pump is correctly positioned and connecting pipework has not been damaged in transit.
2. All inverts should be brought into the tank by drilling a hole in the side and using an appropriate tank connector.
3. All inverts should be brought into the tank (using tank connectors) at the highest possible level from the floor - i.e. no lower than 260 mm from centre of hole to floor.
4. Preferably no connections through the lid as this inhibits easy removal of the lid for cleaning tank. (Note: tank should be positioned in such a way that lid can be removed easily for maintenance.)
5. Ensure that the inflow of water is not directed onto the float mechanism.
6. Slow radius bends MUST be used for every change of direction of the discharge pipework.
7. If the discharge pipework connects to a soil stack, manhole etc. below the discharge outlet of the tank, an anti-syphon unit MUST be fitted to the highest point of the discharge pipework.
8. The tank should be positioned so that the lid can be removed for easy access to pump and tank interior for cleaning.

VENTING TO AIR: THE TANK MUST BE VENTED TO AIR (1¼" MIN.). **DO NOT USE A DURGO / AIR ADMITTANCE VALVE.** IF GLASSWASHERS OR COMMERCIAL/INDUSTRIAL DISHWASHERS/WASHING MACHINES ARE USED IT IS RECOMMENDED THAT AT LEAST A 2" VENT IS TAKEN TO AIR. (IF YOU WISH TO DISCUSS YOUR PARTICULAR APPLICATION WITH REGARD TO VENTILATION PLEASE CONTACT OUR TECHNICAL SALES DEPARTMENT.)

MAINTENANCE:

The DRAIN-KING 60 should have the lid REGULARLY removed for CLEANING of the Tank and Pump

Due to a policy of continuous product improvement we reserve the right to alter specifications without notice.

The DRAINMAJOR 60 DUO is a waste water pumping system with awesome power !

10mm Solids handling capacity

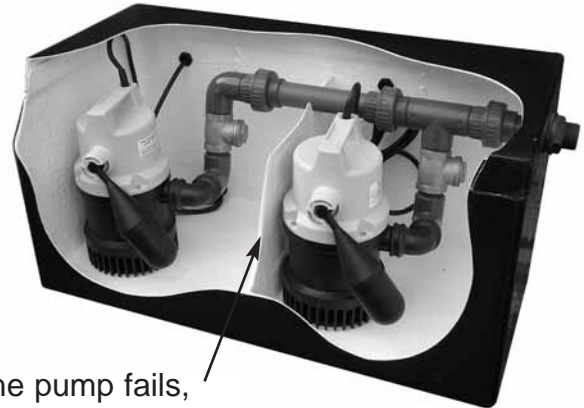
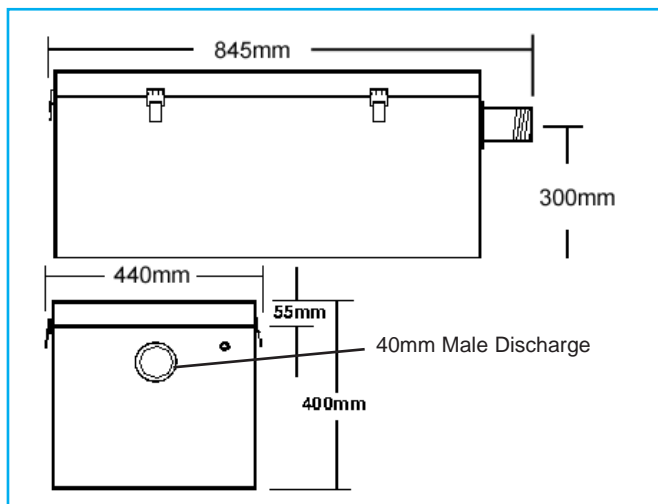
IF 1 PUMP FAILS THE OTHER TAKES OVER!

This DUAL unit with "high level alarm" pumps waste water from a Commercial/Industrial sink, wash basin, utility sink or any situation where waste water needs to be collected and pumped to the drainage system.

It has been SPECIALLY constructed to handle hot water, unlike many other waste water pumping systems which are unable to cope.

An important feature of the unit is its high head pumping capability (up to 8 metres) which enables it to handle difficult, awkward or very long discharge pipe runs.

- OFFICES
- WAREHOUSES
- FACTORIES
- SHOPS
- PUBS/CLUBS
- SCHOOLS
- CINEMAS
- THEATRES
- HOSPITALS
- RESTAURANTS



If one pump fails, water flows over central "weir" and activates the other pump.



PUMP TYPE - 2 x PTL60
"HOT WATER"
HANDLING PUMPS

LID EASILY REMOVED FOR REGULAR CLEANING OF PUMP AND TANK

- ✓ DUAL PUMPS WITH HIGH LEVEL ALARM (to monitor water level)
- ✓ WILL PUMP UP TO 8m VERTICALLY (see graph)
- ✓ 10 mm SOLIDS HANDLING CAPACITY
- ✓ MECHANICAL SHAFT SEAL (Silicone Carbide)
- ✓ COMPACT SIZE / EASY TO INSTALL
- ✓ READY TO INSTALL (No commissioning)

The corrosion resistant pump has a mechanical seal which enables the unit to handle mildly diluted chemical in water. This is ideal for handling waste water from printing or photographic processes and laboratory sinks. If using with cleaners/utility sink or hairdressors basins, use an "Inline Strainer" from Pump Technology

DRAINMAJOR 60 DUO: This consists of a durable tank manufactured from polyester/glass fibre laminate.

QUALITY: The tank is pigmented throughout with an externally smooth isophthalic polyester gel coat and resin enriched lining.

OUTLETS: The tank has a 1½" BSP discharge outlet.

PUMPS X 2 Type PTL60: Vertical centrifugal type, single stage for submerged operation, with strainer base, open impeller (10 mm solids handling capacity).

Motor: Fully encapsulated submersible motor with built-in overload/thermal cut-out, watertight (IP68) enclosure, class B insulation. Supplied with built-in level switch.

Pump Casing: Plastic GFK pump body, top cover and GRP impeller, stainless steel encapsulated motor.

Bearings: Combined shaft for motor and pump, mounted in grease lubricated ball bearings.

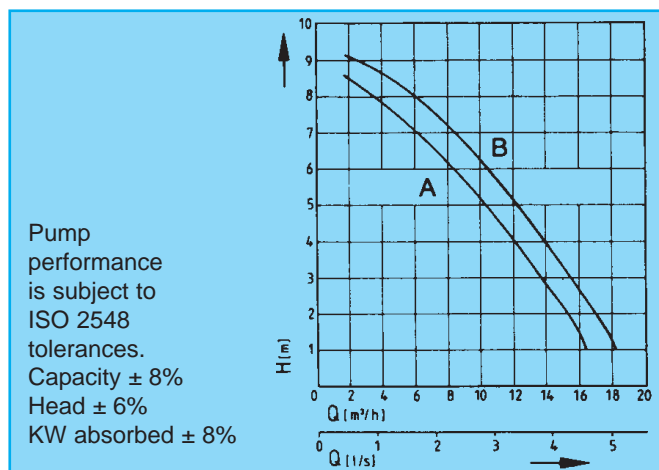
Shaft Seal: Pump end: silicon carbide mechanical seal, unaffected by dry running.

Fitted with mechanical seal and oil buffer chamber, the pumps will give reliable service for long periods with minimum supervision and maintenance, apart from regular cleaning of the tank and pump strainer.

ALL INVERTS TO BE MADE TO SIDE OF TANK USING TANK CONNECTORS.

1¼" MINIMUM VENT TO AIR REQUIRED.

IF DISHWASHERS, GLASSWASHERS OR WASHING MACHINES ARE USED A 2" VENT IS REQUIRED.



PERFORMANCE PTL 60

Delivery Head/m	1	2	3	4	5	6	7	8	9
A - PTL 60E 240V	16.5	15	14	12	10.5	8.5	6	3.5	m³/h
B - PTL 60D 3-Phase	18	17	15.5	14	12	10.5	8.5	6	2.5

IMPORTANT: This unit is not designed to handle sewage. Please enquire about our packaged sewage pumping systems.

The **DRAINMAJOR 60 DUO** comes complete with a one year warranty.
In the unlikely event of technical difficulties, please ring: **Pump Technology Limited on 01189 821555**

TECHNICAL DATA 50 hz

Type	Voltage	P1	P2	F.L.C.	PRM	Overload Protection	Max. Solids Size
PTL 60E (A)	single phase 230 V	0.70kW	0.45kW	3.4 A	2600	Incorporated in motor (thermostat)	10 mm
PTL 60D (B)	3-phase 400 V	0.75kW	0.60kW	1.3 A	2800		10 mm

INSTALLATION DRAINMAJOR 60 DUO *Installers please note:*

- 1 Make sure there is a waste connection into each compartment, connections are made with tank connectors and should not be lower than 200mm from the base unless a low level float* has been selected, then they can be lowered to 110mm.
- 2 As and when the water level in each compartment rises it will activate the pump. If one of pumps failed to operate the rising water level will activate the Alarm trigger and then flow over the divider/weir into the opposite compartment to be pumped away by the reserve pump. The alarm can be muted and the lid of the chamber removed, it may be obvious what the fault may be or it may be necessary to give us a call.
- 3 The discharge connection is 1½" male BSP.
- 4 A Vent pipe will also need to be fitted from the side of the unit at high level using a tank connector. This needs to be run to air or high level and be fitted with a Pump Technology Ltd. Charco or Micro vent.
- 5 Do Not put connections through the lid as this makes maintenance and cleaning difficult.
- 6 The Pump power cables required a suitable fused connection.
- 7 The Alarm Box requires a 240v supply and should be wall mounted it comes complete with a re chargeable battery to warn of power failure.
- 8 The Alarm triggers are fitted to the tank and the two-core cable, which can be extended, needs to connect to the Alarm box in the terminals marked "Float".
- 9 The Terminal marked "Remote" is a volt free contact and can be used for a connection to a BMS.

* This needs to be arranged at time of order as special build.

VENTING TO AIR: THE TANK MUST BE VENTED TO AIR (1½"MIN.). IF GLASSWASHERS OR COMMERCIAL/INDUSTRIAL DISHWASHERS/WASHING MACHINES ARE USED IT IS RECOMMENDED THAT AT LEAST A 2" VENT IS TAKEN TO AIR. (IF YOU WISH TO DISCUSS YOUR PARTICULAR APPLICATION WITH REGARD TO VENTILATION PLEASE CONTACT OUR TECHNICAL SALES DEPARTMENT.)

MAINTENANCE: The **DRAINMAJOR 60 DUO** should have the lid **REGULARLY** removed for **CLEANING** of the Tank and Pump

The DRAINMAJOR™+ 730/1030 is a waste water pumping system with awesome power !

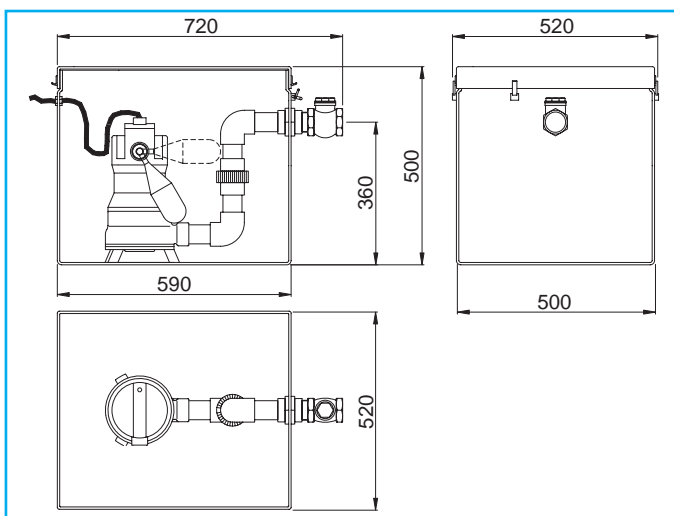
30mm Solids Handling Capacity

This unit is designed to pump waste water from Commercial/Industrial sinks, (with waste disposal units) and utility/cleaners sinks.

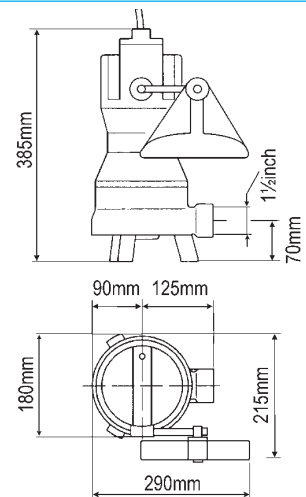
It has been SPECIALLY constructed to handle hot water from commercial dishwashers, washing machines and glass washers, unlike other waste water pumping systems which are unable to cope with such hot water.

An important feature of the unit is its high head pumping capability (up to 9 metres) which enables it to handle difficult, awkward or very long discharge pipe runs.

- OFFICES
- WAREHOUSES
- FACTORIES
- SHOPS
- PUBS/CLUBS
- SCHOOLS
- CINEMAS
- THEATRES
- HOSPITALS
- RESTAURANTS



SPECIAL SUBMERSIBLE
"FOOD & FIBRE"
HANDLING PUMP
TYPE PTL730



PTL 730 'H' version available for extremely hot water. Check specifications with our Technical Department

- ✓ PUMPS UP TO 8m VERTICALLY
- ✓ 30mm SOLIDS HANDLING CAPACITY
- ✓ CONTINUOUS RATED MOTOR
- ✓ MECHANICAL SHAFT SEAL (SILICONE CARBIDE)
- ✓ COMPACT SIZE / EASY TO INSTALL
- ✓ COMPLETE / READY TO INSTALL

HIGH LEVEL ALARM (RECOMMENDED ACCESSORY)
to monitor water level

This complete and simple to install System has been specifically designed to handle stringy and fibrous matter in suspension.

The DRAINMAJOR 730 will pump waste water containing solids of up to 30 mm size, such as food particles from kitchen sinks with waste disposal units.

The absence of a strainer avoids the familiar problem of pumps failing due to the inlet screen becoming clogged.

Instead, the waterborne particles are picked up by the special 3 vane open impeller and passed directly into the discharge port.

56 Youngs Industrial Estate, Aldermaston, Berks. RG7 4PW

Tel: 01189 821555 Fax: 01189 821666

E-mail: support@pumptechnology.co.uk

Web Site: www.pumptechnology.co.uk

DRAINMAJOR 730/1030: The durable tank is manufactured from polyester/glass fibre laminate fully rigged with internal pipework and non return valve.

QUALITY: The tank is pigmented throughout with an externally smooth isophthalic polyester gel coat and resin enriched lining.

OUTLETS: The tank has a 1½" BSP male thread discharge outlet. (NRV supplied is female thread)

PUMP Type PTL730/1030: Vertical single-stage, submersible with free inlet, spiral casing with 1½" horizontal discharge open vortex impeller, (30 mm solids handling capacity).

Motor: Fully encapsulated submersible motor with built-in overload/thermal cut-out, watertight (IP68) enclosure, class B insulation. Supplied with built-in level switch.

Materials: Spiral casing in cast iron - Terminal board, hood, impeller, wear plate made of GRP. Motor casing and shaft of stainless steel. Supply through rubber insulated flexible cable.

Bearings: Common shaft for pump and motor, mounted in ball bearings.

Seal: Silicon carbide mechanical seal, oil chamber and double shaft seal towards the motor section, safe to run dry.

For Commercial kitchens with multiple sinks, dishwashers, glasswashers etc., a **DRAIN-KING Twin Pump System** **MUST** be used.



The **DRAINMAJOR 730/1030** comes complete with a one year warranty. In the unlikely event of technical difficulties, please ring:
Pump Technology Limited on 01189 821555

DRAINMAJOR 730 is available in an adapted tank 400mm wide x 400mm deep x 430mm high.

IMPORTANT: This unit is not designed to handle sewage. Please enquire about our packaged sewage pumping systems.

Technical Data (50 Hz)							
Type	Voltage	P1	P2	F.L.C.	RPM	Overload Protection	Max. Solids Size
PTL 730E	single phase 230 V	0.83kW	0.50kW	3.9A	2500	Incorporated in motor (thermostat)	30mm
PTL 730D	3-phase 400V	0.85kW	0.60kW	1.4A	2800		30mm
PTL 1030E	single phase 230 V	1.37kW	0.98kW	6.0A	2700		30mm
PTL1030D	3-phase 400V	1.36kW	1.06kW	2.4A	2740		30mm

For Flow Rates, see Page 35

Depending on the working environment of the DRAINMAJOR it may be advisable to fit a grease trap/interceptor. Please seek advice from our technical department. **Phone 01189 821555 for further information.**

INSTALLATION DRAINMAJOR 730/1030 *Installers please note. (use solvent weld or copper pipe)*

1. Remove lid from tank, check pump is correctly positioned and connecting pipework has not been damaged in transit.
2. Check that the pump is correctly positioned in the tank and that the union is tightly connected so that the pump does not move on its mountings impeding the float action.
3. All inverts should be brought into the side of the tank by drilling a hole and using an appropriate tank connector.
4. All inverts should be brought into the tank (using tank connectors) at the highest possible level from the floor - i.e. no lower than 240 mm from base of unit for the 730, 270mm for the 1030 and 155mm or 185mm respectively for the low level float.
5. Preferably no connections through the lid as this inhibits easy removal of the lid for cleaning tank. (Note: tank **MUST** be positioned in such a way that lid can be removed easily to allow access for tank interior and pump cleaning.)
6. Ensure that the inflow of water is not directed onto the float mechanism.
7. Slow radius bends **MUST** be used for every change of direction of the discharge pipework.
8. If the discharge pipework connects to a soil stack, manhole etc. **below the discharge outlet of the tank**, an anti-syphon unit **MUST** be fitted to the highest point of the discharge pipework.

VENTING TO AIR: THE TANK MUST BE VENTED TO AIR (1¼" MIN.) **DO NOT USE A DURGO AIR / ADMITTANCE VALVE.** IF GLASSWASHERS OR COMMERCIAL/INDUSTRIAL DISHWASHERS/WASHING MACHINES ARE USED IT IS RECOMMENDED THAT AT LEAST A 2" VENT IS TAKEN TO AIR. (IF YOU WISH TO DISCUSS YOUR PARTICULAR APPLICATION WITH REGARD TO VENTILATION PLEASE CONTACT OUR TECHNICAL SALES DEPARTMENT.)

MAINTENANCE:

The DRAINMAJOR 730/1030 should have the lid REGULARLY removed for CLEANING of the Tank and Pump

The DRAINMAJOR™ 60 is a waste water pumping system with awesome power !

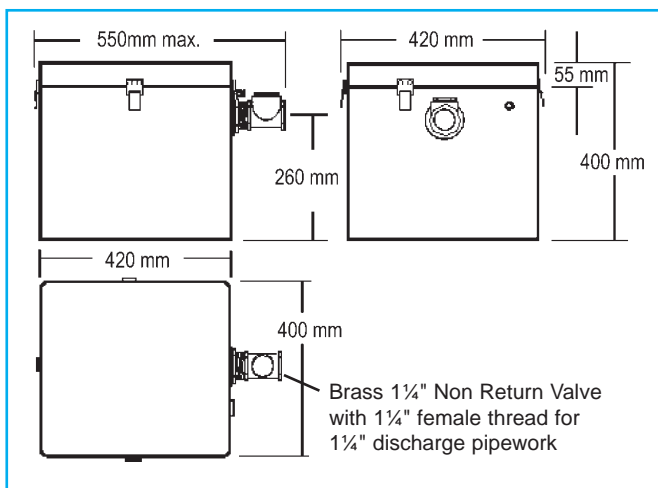
10mm Solids handling capacity

This unit is designed to pump waste water from a Commercial/Industrial sink, wash basin, utility sink or any situation where waste water needs to be collected and pumped to the drainage system.

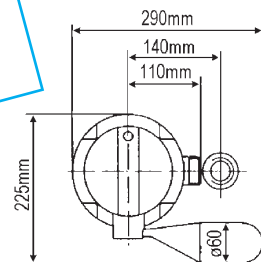
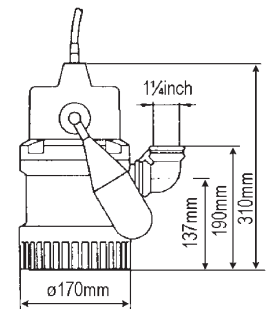
It has been SPECIALLY constructed to handle very hot water from a commercial dishwasher, washing machine and glass washer, unlike other waste water pumping systems which are unable to cope with such hot water.

An important feature of the unit is its high head pumping capability (up to 8 metres) which enables it to handle difficult, awkward or very long discharge pipe runs.

- OFFICES
- WAREHOUSES
- FACTORIES
- SHOPS
- PUBS/CLUBS
- SCHOOLS
- CINEMAS
- THEATRES
- HOSPITALS
- RESTAURANTS



PUMP TYPE - PTL60
"VERY HOT WATER"
HANDLING PUMP



**BEST SELLER for
OVER 15 YEARS**

LID EASILY REMOVED FOR REGULAR CLEANING OF PUMP AND TANK

- ✓ WILL PUMP UP TO 8m VERTICALLY
- ✓ 10 mm SOLIDS HANDLING CAPACITY
- ✓ CONTINUOUS RATED MOTOR
- ✓ MECHANICAL SHAFT SEAL (SILICONE CARBIDE)
- ✓ COMPACT SIZE / EASY TO INSTALL
- ✓ COMPLETE, READY TO INSTALL

HIGH LEVEL ALARM (RECOMMENDED ACCESSORY)
to monitor water level

The corrosion resistant pump has a mechanical seal which enables the unit to handle mildly diluted chemical in water. This is ideal for handling waste water from printing or photographic processes and laboratory sinks.
If using with cleaners/utility sink or hairdressers basins, use an "Inline Strainer" from Pump Technology. See page 35.

56 Youngs Industrial Estate, Aldermaston, Berks. RG7 4PW

Tel: 01189 821555 Fax: 01189 821666

E-mail: support@pumptechnology.co.uk

Web Site: www.pumptechnology.co.uk

DRAINMAJOR 60: The durable tank is manufactured from polyester/glass fibre laminate, fully rigged with internal pipework and non return valve.

QUALITY: The tank is pigmented throughout with an externally smooth isophthalic polyester gel coat and resin enriched lining.

OUTLETS: The tank has a 1½" BSP male thread discharge outlet. (NRV supplied is female thread).

PUMP Type PTL60: Vertical centrifugal type, single stage for submerged operation, with strainer base, open impeller (10 mm solids handling capacity).

Motor: Fully encapsulated submersible motor with built-in overload/thermal cut-out, watertight (IP68) enclosure, class B insulation. Supplied with built-in level switch.

Pump Casing: Plastic GFK pump body, top cover and GRP impeller, stainless steel encapsulated motor.

Bearings: Combined shaft for motor and pump, mounted in grease lubricated ball bearings.

Shaft Seal: Silicon carbide mechanical seal, unaffected by dry running for short periods.

Fitted with mechanical seal and oil buffer chamber, the pumps will give reliable service for long periods with minimum supervision and maintenance, apart from regular cleaning of the tank and pump strainer.

ALL INVERTS TO BE MADE TO SIDE OF TANK USING TANK CONNECTORS.

1½" MINIMUM VENT TO AIR REQUIRED.

IF DISHWASHERS, GLASSWASHERS OR WASHING MACHINES ARE USED A 2" VENT IS REQUIRED.



The **DRAINMAJOR 60** comes complete with a one year warranty. In the unlikely event of technical difficulties, please ring:
Pump Technology Limited on 01189 821555

The **DRAINMAJOR 730** is recommended for kitchens where **30mm solids handling** capacity is required (e.g. for sinks with waste disposal units). See page 25. If your requirement is for commercial kitchens with multiple sinks, dishwashers, glasswashers etc. please use the **DRAINMAJOR 730**.

IMPORTANT: This unit is not designed to handle sewage. Please enquire about our packaged sewage pumping systems.

Technical Data (50 Hz)							
Type	Voltage	P1	P2	F.L.C.	RPM	Overload Protection	Max. Solids Size
PTL 60E	single phase 230 V	0.70kW	0.45kW	3.4A	2600	Incorporated in motor (thermostat)	10mm
PTL 60D	3-phase 400V	0.75kW	0.60kW	1.3A	2800		10mm

For Flow Rates, see Page 35

Depending on the working environment of the DRAINMAJOR it may be advisable to fit a grease trap/interceptor. Please seek advice from our technical department.

INSTALLATION DRAINMAJOR 60 *Installers please note. (use solvent weld or copper pipe)*

1. Remove lid from tank, check pump is correctly positioned and connecting pipework has not been damaged in transit.
2. Check that the pump is correctly positioned in the tank and that the union is tightly connected so that the pump does not move on its mountings impeding the float action.
3. All inverts should be brought into the side of the tank by drilling a hole and using an appropriate tank connector.
4. All inverts should be brought into the tank (using tank connectors) at the highest possible level from the floor - i.e. no lower than 200 mm from base of unit. (The addition of a low level float can reduce this to 110mm).
5. Preferably no connections through the lid as this inhibits easy removal of the lid for cleaning tank. (Note: tank **MUST** be positioned in such a way that lid can be removed easily to allow access for tank interior and pump cleaning.)
6. Ensure that the inflow of water is not directed onto the float mechanism.
7. Slow radius bends **MUST** be used for every change of direction of the discharge pipework.
8. If the discharge pipework connects to a soil stack, manhole etc. **below the discharge outlet of the tank**, an anti-syphon unit **MUST** be fitted to the highest point of the discharge pipework.

VENTING TO AIR: THE TANK MUST BE VENTED TO AIR (1½" MIN.). **DO NOT USE A DURGO / AIR ADMITTANCE VALVE.** IF GLASSWASHERS OR COMMERCIAL/INDUSTRIAL DISHWASHERS/WASHING MACHINES ARE USED IT IS RECOMMENDED THAT AT LEAST A 2" VENT IS TAKEN TO AIR. (IF YOU WISH TO DISCUSS YOUR PARTICULAR APPLICATION WITH REGARD TO VENTILATION PLEASE CONTACT OUR TECHNICAL SALES DEPARTMENT.)

MAINTENANCE:

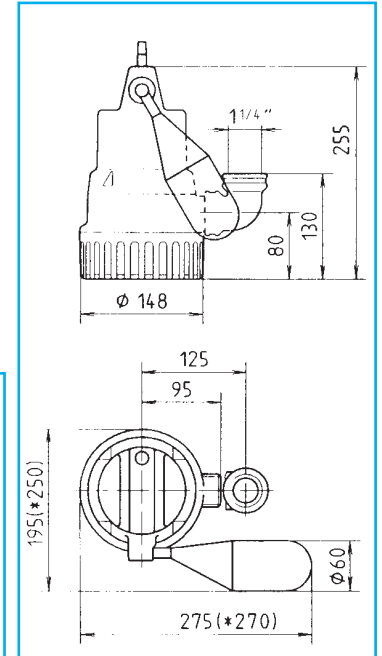
The DRAINMAJOR 60 should have the lid REGULARLY removed for CLEANING of the Tank and Pump

Due to a policy of continuous product improvement we reserve the right to alter specifications without notice.

DRAINMINOR

The complete, automatic, **DOMESTIC**, mini, waste water pumping system!

- ✓ EASY TO INSTALL
- ✓ HANDLES 10mm SOLIDS
- ✓ COMPACT SIZE:
Fits into a very small space 320mm high x 380mm wide x 292mm deep
- ✓ POWERFUL:
Pumps 5 metres vertically, 50 metres horizontally OR a combination of both
- ✓ LID EASILY REMOVED FOR CLEANING
- ✓ PIPEWORK 1 1/4" (32mm)
- ✓ PLASTIC/STAINLESS STEEL PUMP:
Not subject to premature corrosion
- ✓ VERTICAL CENTRIFUGAL TYPE PUMP:
With strainer base
- ✓ QUIET IN OPERATION
- ✓ AUDIBLE ALARM:
To monitor water level
(Available as an accessory)



DRAINMINOR 'SL'

- Designed to take waste water containing mildly corrosive chemicals (20 parts per million concentration)
- Ideal for waste water from printing / photographic processes and laboratories.
- Corrosion resistant pump with mechanical seals
- Can handle overflows from Softeners and Urinals

Pump Type PTL 30



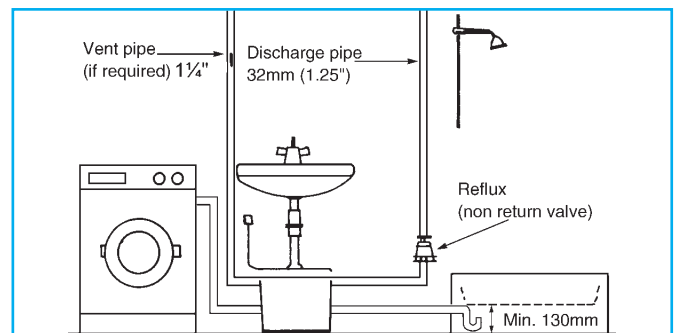
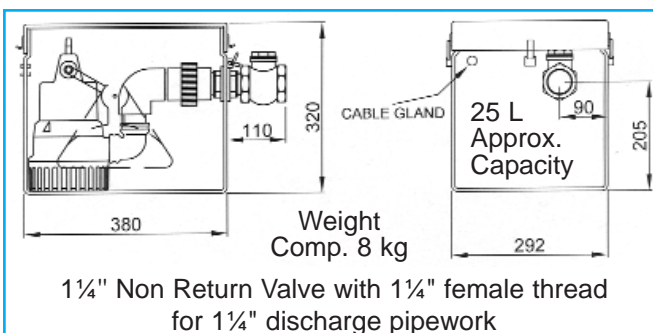
PUMPS DOMESTIC WASTE WATER FROM:

- KITCHEN SINKS
- BASINS
- SHOWERS & BATHS
(special "low level" float required)
see over

- WASHING MACHINES & DISHWASHERS
(special "low level" float required)
see over

DRAINMAJOR

60 + 730 + Duo are recommended for small commercial kitchens. If your requirement is for Commercial or Industrial Dishwashers, Washing Machines, please select from the **DRAIN-KING** Range.



56 Youngs Industrial Estate, Aldermaston, Berks. RG7 4PW

Tel: 01189 821555 Fax: 01189 821666

E-mail: support@pumptechnology.co.uk

Web Site: www.pumptechnology.co.uk

DRAINMINOR DOMESTIC, MINI, WASTE WATER PUMPING SYSTEM

Electrical Data								
Pump	Current Type	Voltage Volts	Motor Power P1 P2		R.P.M. Min -1	F.L.C. Amp	Motor Protection	Plug
PTL 30	1 Phase	230	0.32	0.20	2720	1.4	Incorporated	Safety

DRAINMINOR: This consists of a durable tank manufactured from polyester/glass fibre laminate.

QUALITY: The tank is pigmented throughout with an externally smooth isophthalic polyester gel coat and resin enriched lining.

OUTLETS: The tank has a 1¼" BSP discharge outlet.

PUMP Type PTL 30

Vertical, single-stage, submersible, with foot strainer (10x40 mm). Volute casing with 1¼" (male) radial pressure branch.

Bearings

Common shaft for pump and motor, mounted in ball bearings and grease lubricated for life.

Seal

Shaft sealing by means of shaft sealing rings and intermediate oil chamber, safe to run dry for short periods.

Motor

Submersible motor, type of enclosure P 68, insulation class B, starting via plug or automatic circuit. Completely water tight cable entry.

Materials

Motor housing in high-grade steel, volute casing, impeller and control head in plastic (GRP), shaft in stainless steel, rubber insulated flexible cable.

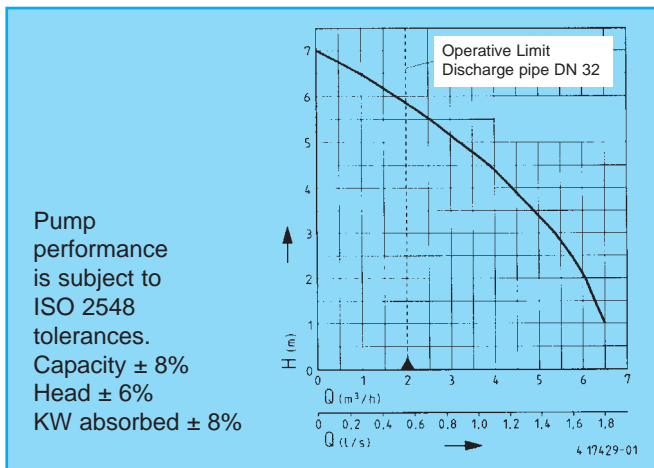
ALL INVERTS TO BE MADE TO SIDE OF TANK USING TANK CONNECTORS.

1¼" MINIMUM VENT TO AIR REQUIRED.

The **DRAINMINOR** comes complete with a two year warranty. In the unlikely event of technical difficulties, please ring:

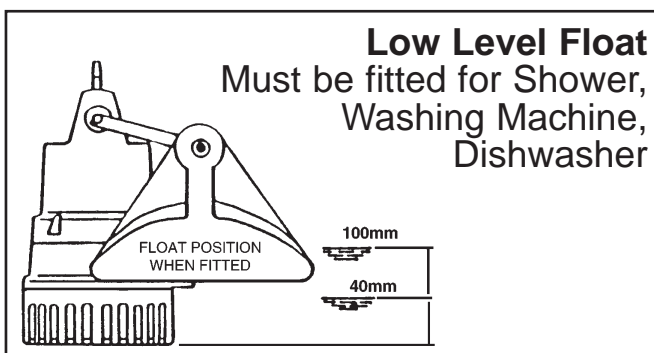
Pump Technology Limited on 01189 821555

IMPORTANT: This unit is not designed to handle sewage. Please enquire about our packaged sewage pumping systems.



PERFORMANCE PTL 30

Delivery Head/m	1	2	3	4	5	6	
PTL 30	1.70	1.57	1.37	1.15	0.82	0.45	ltr/sec



INSTALLATION DRAINMINOR *Installers please note.*

1. Remove lid from tank, check pump is correctly positioned and connecting pipework has not been damaged In transit.
2. Check that the pump is correctly positioned in the tank and that the union is tightly connected so that the pump does not move on its mountings impeding the float action.
3. All inverts should be brought into the tank by drilling a hole and using an appropriate tank connector.
4. All inverts should be brought into the tank (using tank connectors) at the highest possible level from the floor - i.e. no lower than 200 mm from base of unit. (with low level float 110 mm)
5. Preferably no connections through the lid as this inhibits easy removal of the lid for cleaning tank. (Note: tank **MUST** be positioned in such a way that lid can be removed easily to allow access for tank interior and pump cleaning.)
6. Ensure that the inflow of water is not directed onto the float mechanism.
7. A compression fitting can be installed between the non-return valve and the discharge pipework to enable the removal of the **DRAINMINOR** tank if required.
8. Slow radius bends **MUST** be used for every change of direction of the 1¼" discharge pipework.
9. If the discharge pipework connects to a soil stack, manhole etc. **below the discharge outlet of the tank**, an anti-syphon unit **MUST** be fitted to the highest point of the discharge pipework.

VENTING TO AIR: THE TANK MUST BE VENTED TO AIR (1¼" MIN.). TO DISCUSS YOUR PARTICULAR APPLICATION WITH REGARD TO VENTILATION PLEASE CONTACT OUR TECHNICAL SALES DEPARTMENT.

MAINTENANCE:

The DRAINMINOR should have the lid REGULARLY removed for CLEANING of the Tank and Pump

IF YOU HAVE ANY INSTALLATION QUERIES PLEASE TELEPHONE OUR TECHNICAL DEPT. BEFORE INSTALLATION.

FLOORMASTER™

The complete, automatic, **UNDERFLOOR**, waste water pumping system!

- **Floor drain**

The adjustable cover of steel and cast-iron can be tiled and set to the floor level and has an odour-proof floor drain.

- **Odour trap**

- **Complete hose connections**

- **Non-Return Valve**

- ✓ **EASY TO INSTALL**

- ✓ **COMPACT SIZE**

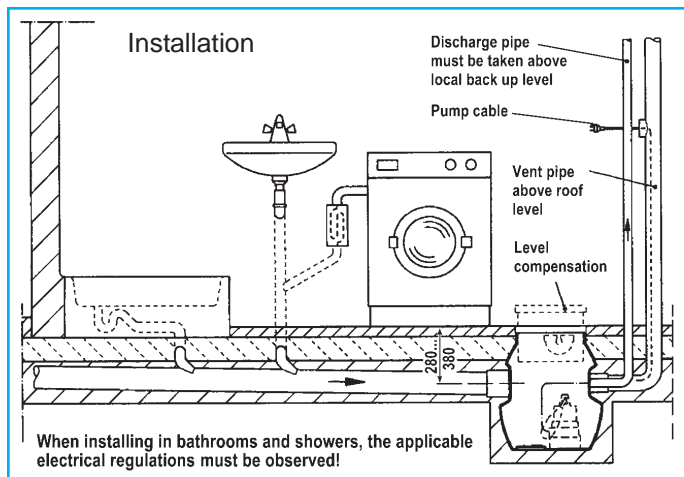
- ✓ **POWERFUL**

A comprehensive Range of Pumps can be Installed to suit individual applications!

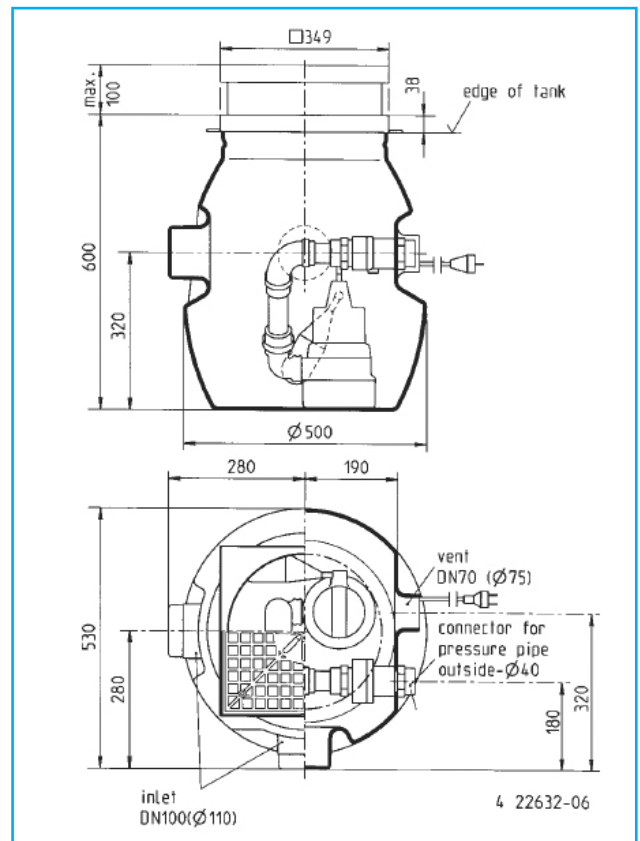
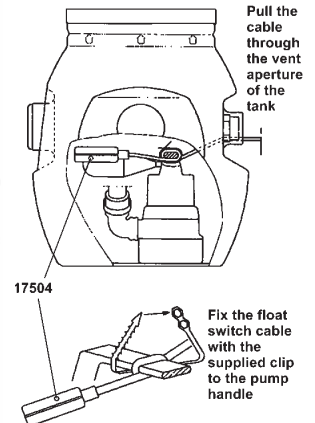
- ✓ **QUIET OPERATION**

PUMPS WASTE WATER FROM:

- **PUB/RESTAURANT CELLARS**
- **KITCHEN SINKS**
- **OVERFLOWS FROM: SOFTENERS, DRINK DISPENSERS, ETC.**
- **DISHWASHERS, WASHING MACHINES ETC.**



FLOORMASTER ALARM (optional)



FLOORMASTER is recommended for small commercial kitchens. If your requirement is for Commercial or Industrial Dishwashers, Washing Machines, please select from the **DRAINING/PUMPMATIC** Range.

56 Youngs Industrial Estate, Aldermaston, Berks. RG7 4PW

Tel: 01189 821555 Fax: 01189 821666

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Web Site: www.pumptechnology.co.uk

FLOORMASTER UNDERFLOOR, MINI, WASTE WATER PUMPING SYSTEM

Type	Type of Current	Voltage	kW Input	kW Output	RPM	F.L.C. Amp.	Motor Protection
PTL30	1-phase	230 V	0.32 kW	0.20kW	2720 min-1	1.4 A	incorporated in motor
PTL60	1-phase	230 V	0.70kw	0.45 kW	2600 min-1	3.4 A	
PTL60	3-phase	400 V	0.75 kW	0.58 kW	2750 min-1	1.3 A	
PTL62	1-phase	230 V	0.83 kW	0.50 kW	2500 min-1	3.9 A	
PTL62	3-phase	400 V	0.85 kW	0.65 kw	2715 min-1	1.4 A	
PTL102	3-phase	400 V	1.36 kW	1.02 kW	2550 min-1	2.0 A	
PTL730	1-phase	230 V	0.83 kW	0.50 kW	2500 min-1	3.9 A	
PTL730	3-phase	400 V	0.85 kw	0.60 kw	2705 min-1	1.5 A	

The larger pumps are available EX - Explosion Proof - ring for details

Performance		Delivery head [m]										
		1	2	3	4	5	6	7	8	9	10	11
PTL30	1-phase	6.5	5.5	4.5	3.5	2.5						m3/h
PTL60	1-phase	15.5	14	12.5	10.5	8.5	6.5	4	1.5			
PTL60	3-phase	17.5	16	14.5	13	11	9	7	4	1		
PTL62	1-phase	19	17	15	12	10	8	6	4	2		5
PTL62	3-phase	22	20	17	15	12	10	8	6	4	3	
PTL102	3-phase	28	26	23	21	19	17	15	12	10	8	
PTL730	1-phase	19	17	15	12	10	8	6	4			
PTL730	3-phase	22	20	17	15	12	10	8	6	4	1	

For Flow Rates, see Page 35

Description

Tank: Waterproof PE-tank (Polyethylene), (70 l), with 2 inlet sockets (DN 100), sockets for vent pipe (DN 70) and discharge PVC-pipe 40 mm.

Installation: The tank should be flush mounted in concrete. The adjustable cover will compensate for the thickness of the floor covering. Screw the supplied pipe connection into the pump and cut the pipe length. Join the pump to the rubber discharge elbow in the tank. Pull the pump cable through the vent pipe up to the T-piece and close the aperture with the supplied rubber plug.

Delivery: PE-tank with level adjustable cover, with inlet, vent, and discharge sockets, drain trap for floor drain, pipe connector and mounted reflux valve.

Application

This is the ideal and quick solution for a built-in waste water sump in utility and storage rooms situated in basements. The pressure-proof plastic tank is just placed in the concrete footing and cemented in with the inlets and outlets.

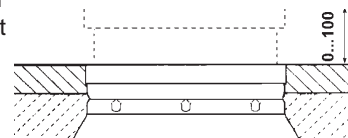
The automatic level control switches the pump on and off dependent on the water level. Only a faint hum is heard when the pump is operating, therefore disturbing noises are not evident, even at night.

TO SELECT THE APPROPRIATE PUMP FOR YOUR INSTALLATION, PLEASE CONTACT THE PUMP-TECHNOLOGY HELPLINE ON 01189 821555

IMPORTANT: This unit is not designed to handle sewage. Please enquire about our packaged sewage pumping systems.

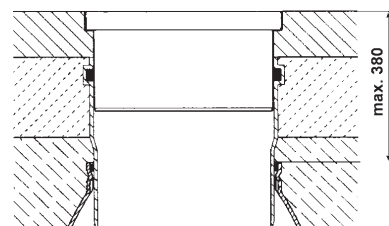
Floor level compensation

The cover with round throat shoulder in the shaft opening can be aligned vertically and rotationally. Sealing between tank and cover is achieved by a round sealing cord. This makes it possible to adjust the Floormaster to the effective top edge of floor coverings laid later e.g. tiles.



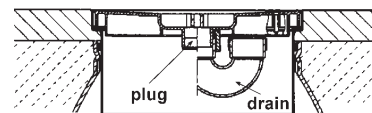
Extended floor level compensation (adjusted by the customer)

If required, the installation depth can be additionally increased up to approx. 350 mm by the customer, using a commercial 300 mm dia. PVC pipe. The PVC pipe is inserted into the tank instead of the cover frame. The frame is then pushed into the socket of the PVC pipe.



Odour trap

An odour trap is provided as standard for the floor drain. The necessary syphon components form part of the scope of supply.



The **FLOORMASTER** comes complete with a one year warranty. In the unlikely event of technical difficulties, please ring:
Pump Technology Limited on 01189 821555

IF YOU HAVE ANY INSTALLATION QUERIES PLEASE TELEPHONE OUR TECHNICAL DEPT. BEFORE INSTALLATION.

Due to a policy of continuous product improvement we reserve the right to alter specifications without notice

HIGH LEVEL ALARMS for SEWAGE & WASTE WATER PUMPING SYSTEMS

These units are designed for connection to a 240V supply circuit. The alarm buzzer has a minimum volume of 80 dBA (at 1m distance). A rechargeable battery is fitted in case of mains electricity supply failure.

PTL1A (SIDE MOUNTED FLOAT) USED WITH A FLOOR MOUNTED WASTE WATER SYSTEM e.g. DRAINMAJOR - DRAIN-KING

The float mechanism provided must be attached through the side of the GRP tank and positioned in an area away from the inverts from sinks, dishwashers, glasswashers etc. to prevent ingress of water inadvertently actuating the horizontal float switch mechanism.



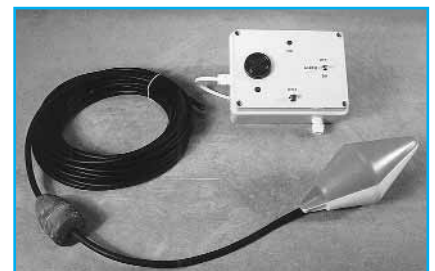
PTL1B (TOP MOUNTED FLOAT) USED WITH A FLOOR MOUNTED WASTE WATER SYSTEM e.g. DRAINMASTER.

The float mechanism provided must be attached through the indent point situated under the end cover on the top of the tank.



PTL1C (NON MERCURY SWITCH FLOAT) USED WITH BELOW GROUND SEWAGE OR WASTE WATER PUMPING SYSTEM e.g. PUMPMATIC.

A float and weight is provided to activate the High Level Alarm. We recommend that the float is securely attached to the discharge pipework at a higher level than the activation level of the automatic float switch of the pump.



PTL1D (REMOTE ALARM) USED WITH FLOOR MOUNTED SEWAGE SYSTEMS e.g. EFFLU MAXI, EFFLU MIDI

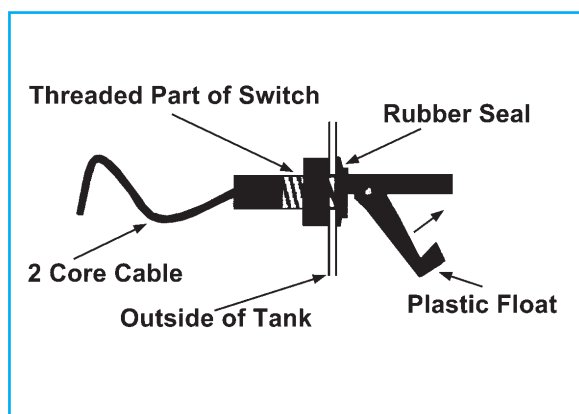
These systems have volt free contacts on both the single and dual pump versions. They are designed to be wired into the main Control Panel of Pump Technology Floor Mounted Waste Water and Sewage Pumping Systems.



FITTING INSTRUCTIONS - HIGH LEVEL ALARMS for SEWAGE & WASTE WATER PUMPING SYSTEMS

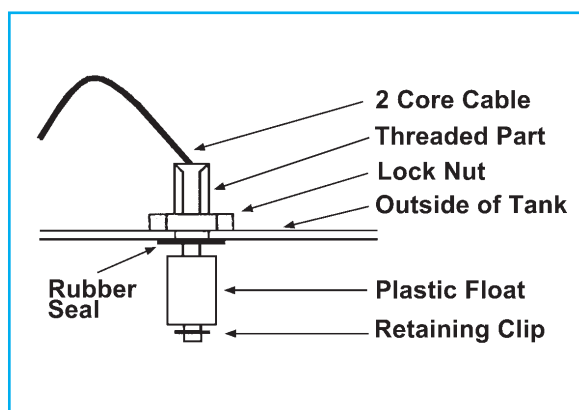
PTL1A (SIDE MOUNTED FLOAT)

1. Drill a hole in the side of the tank at high level i.e. **above the “switch-on” level of the pump float.**
2. Thread the rubber seal over the cable and pass the cable through the side of the unit from the inside outwards.
3. Thread the lock nut over the cable and secure in place. **Do not overtighten the lock nut.**
4. Ensure that the inflow of water to the tank is not directed onto the float.
5. Attach the 2 core cable to the terminals marked “FLOAT” in the High Level Alarm unit.



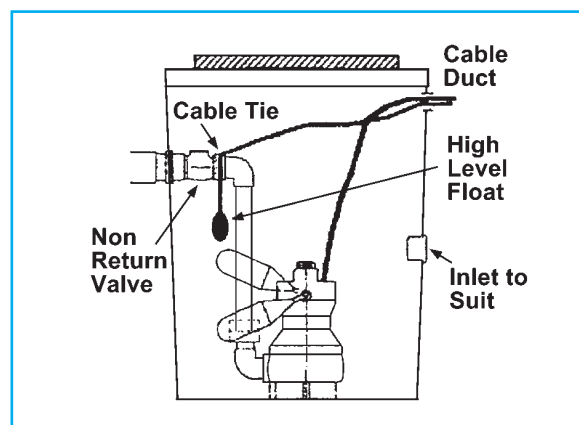
PTL1B (TOP MOUNTED FLOAT)

1. Drill a clearance hole in the lid, at the indent point provided, under the end cover.
2. Thread the rubber seal over the cable and pass the cable through the lid from the underside.
3. Thread the lock nut over the cable and secure the switch in place. **Do not overtighten the lock nut.**
4. Attach the 2 core cable to the terminals marked “FLOAT” in the High Level Alarm unit.



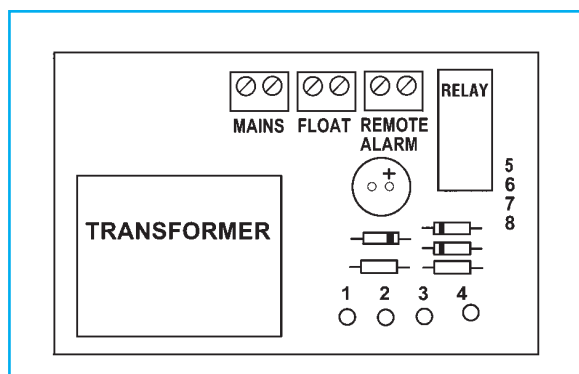
PTL1C (NON MERCURY SWITCH FLOAT)

1. A float and weight is provided to activate the High Level Alarm.
2. We recommend that the float is securely attached to the discharge pipework at a higher level than the activation level of the automatic float switch of the pump.
3. Attach the high level float so that it will not be fouled by the pipework etc.
4. Attach the 2 core cable to the terminals marked “FLOAT” in the High Level Alarm unit.



PTL 1D (REMOTE ALARM)

1. Site alarm panel as required with a 240V power supply, preferably not from the same source as the pumps.
2. Run a 0.75mm 2 core cable from the volt free contact on the main control panel to the PTL 1D alarm panel terminals marked float, wherever this is sited away from the main Control Panel.
3. The HLA can be connected into the Building Management System via the Remote Alarm Terminals.



NOTE: PUMP TECHNOLOGY PTL/1

These High Level Alarms require their own **DEDICATED** power supply and **MUST NOT** be powered from the same source as the pump/s.

Pump Flow Rates *in Litres Per Second (l/s)*

Waste Water	Head	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m
PTL30 & 30SL	l/s	1.7	1.5	1.4	1.1	0.8							
PTL303E					3.8	3.5	3.2	3	2.5	2	1.6	1	
PTL60E		4.2	4	3.6	3.2	2.6	1.8	1.2	0.6				
PTL60D		4.6	4.4	4.2	3.7	3.2	2.7	2	1.1				
PTL730E		5.2	4.8	4	3.2	2.8	2.2	1.7	1				
PTL730D		6	5.1	4.6	4	3.5	2.8	2.2	1.8	1			
PTL1030E+D		8	7.4	6.8	6	5.2	4.8	4	3.5	2.8	2.2	0.7	
Sewage Vortex	Head	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m
Midi 40E + D	l/s		14	13	12	10	6	4					
Macro			12	10	8.5	5.5	3.5						
Maxi 80&120E + D		15	13	9	7.5	5.5	3.5						
Maxi 80&120/51D		18	17	15.2	13.8	12	10	7.5	5.5				
Maxi 80&120/52D						15	14	12	8.5	6.5	3.8		
Sewage Cutter	Head	6m	8m	10m	12m	14m	16m	18m	20m	22m	24m	26m	30m
Grinder 10/82E		Please check details with our Technical Team											
Grinder 10/82D		Please check details with our Technical Team											
Grinder 10/52 D		4.8	4.8	4.7	4.5	3.8	3.3	2.7	2	1.3			
Grinder 10/53 D									4.5	4.2	3.9	3.4	2.2

E = 230v D = 415v 3 Phase

NOTE: These flow rates are for static head only. Friction loss has to be calculated and added to static head to provide the final flow rate. Please contact our Technical Department for best pipe size to provide best pump performance and desired flow rate.

IN-LINE STRAINERS (PTL-1LS)

Suitable for DRAINMASTER, DRAINMAJOR and DRAIN - KING Waste Water Pumping Systems with Cleaners' Sinks and Hairdressers Hand basins.

(Not suitable for Kitchen Sinks with grease)

SPECIFICATIONS

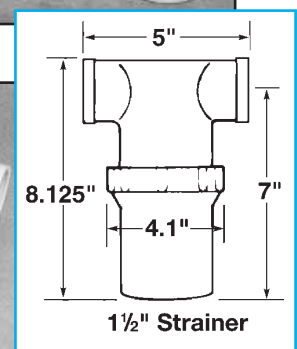
The PTL-1LS in-line strainer is available in two versions.

1. Opaque white bowl
2. Clear polymide bowl which allows for visual inspection of strainer (must not be used with alcohol)

Both strainers have 1½" BSP female threaded connections to which are fitted plastic to male iron adaptors for solvent weld 1½" plastic waste pipe.

Filter screens are 20 mesh stainless steel which are easily removable for cleaning.

Ratings: 150 psi at 70°F, 100 psi at 125°F.
(140°F is the maximum temperature.)



INSTALLATION

Install the line strainer on the inlet side of the pump. The arrow moulded in the strainer cap indicates flow of liquid.

56 Youngs Industrial Estate, Aldermaston, Berks. RG7 4PW

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CHARCOVENT & MICROVENT

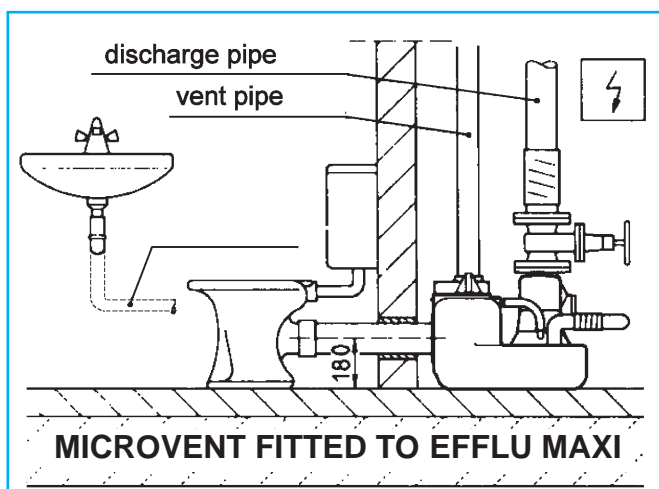
The SOLUTION when it is not possible to "Vent to Air"

Carbon/Charcoal Filter-Breather Systems for venting Pump Technology Ltd. Waste Water and Sewage Pumping Systems where a vent to atmosphere is not possible (all pumping systems require a vent).

Both **CHARCOVENT** and **MICROVENT** contain an Activated Carbon Filter with highly absorptive powers ideal for removing unpleasant odours and gaseous contaminants from an air stream and also allow two way air passage to enable the pump unit to breathe.

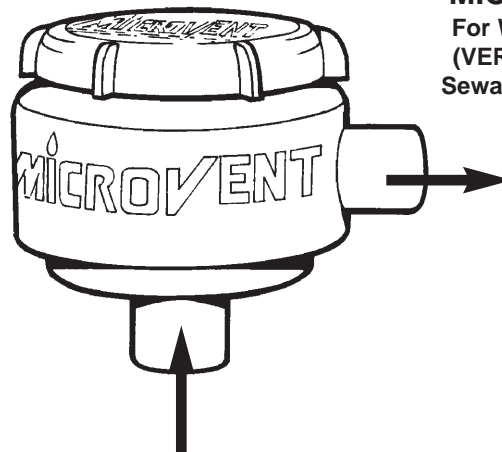
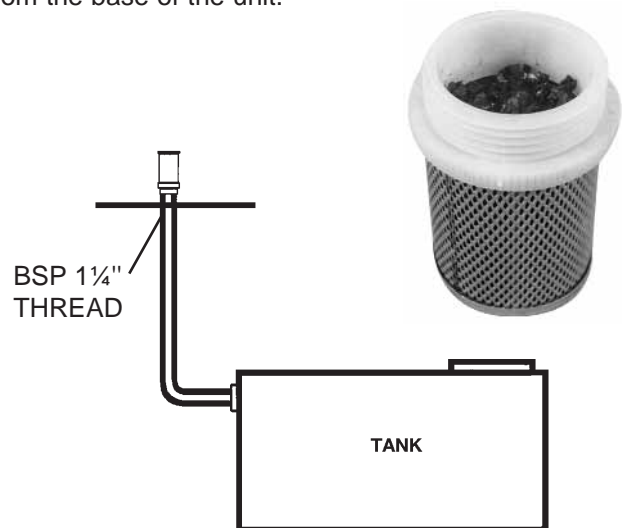
NOTE:

CHARCOVENT and **MICROVENT** should be fitted at the same height or higher than the highest point of the discharge pipework. Where possible vent unit into Ceiling Void, or similar.



The **CHARCOVENT** should be fitted to tank using 1¼" pipework and a tank connector positioned through the side of the tank **NOT THE LID** -as high as possible from the base of the unit.

CHARCOVENT
For Waste Water
Pumping Systems
WITHOUT VERY
HOT WATER



MICROVENT
For Waste Water
(VERY HOT) and
Sewage Pumping
Systems

MICROVENT should be used with:

- Waste Water Pumping Systems where waste water is **EXTREMELY HOT** i.e Commercial Dishwashers, Glasswashers etc. (connect to minimum 2" pipework)
- With Floor Mounted Sewage Pumping Systems e.g. **EFFLU MIDI, EFFLU MACRO & EFFLU MAXI** (connect to minimum 3" pipework)

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BOOSTER PUMPS

Pump Technology can provide pumpsets for a range of services from the **SMALL DOMESTIC PROPERTY** up to the **LARGEST COMMERCIAL APPLICATIONS**



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TECHNOLOGY LTD

BOOSTER PUMPS



CONSTANT PRESSURE BOOSTER SETS

These units are particularly suitable for:

DOMESTIC, SMALL CIVIL INDUSTRIAL installation and IRRIGATION.

They are noteworthy for their absolute reliability, easy functioning and minimal maintenance.

CONSTRUCTION CHARACTERISTICS

- Multistage centrifugal electric pumps on a vertical axis
- Galvanised steel plate complete with 4 anti-vibration rubber feet
- Suction and delivery manifold in stainless steel AISI 304
- Ball valves on suction and delivery pipe union of each pump
- Check valves on the suction side of each pump
- AISI 304 stainless steel manifold caps
- Radial pressure gauge with shut-off valve
- Inverter Control unit on the delivery of each pump
- Protection Box

REMEMBER- NO VOICEMAIL

when you call you Talk Directly
to our Technical Experts!

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WASTE WATER SUBMERSIBLE PUMPS

Pump Technology **STOCK** a comprehensive range of single and three phase waste water pumps.

Contact our Technical helpline for expert advice backed by practical experience.

- Domestic Applications
- Industrial Applications
- Very Hot Water
- Chemical Environments



Ideal for sumps taking water from kitchens, basements, lift wells, fountains or reservoirs.

The PTL range is especially suited for contaminated water and similar harsh environments where corrosion is a problem.

These high quality products are built with the essential parts to prolong life, requiring minimal supervision and maintenance.

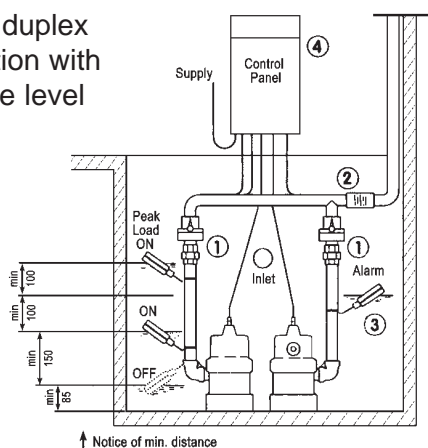
Remember: Quality and reliability isn't expensive - it's priceless.



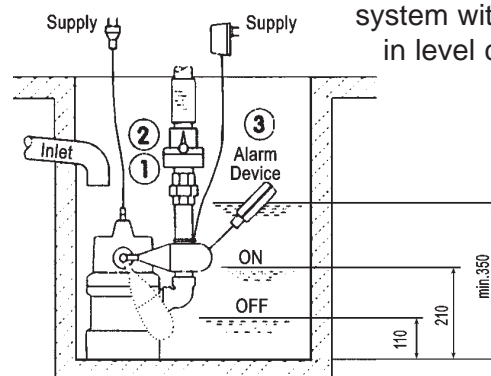
INSTALLATION

Many installation options are possible - for instance:-

Typical duplex installation with separate level control



Typical single pump system with built in level control



All pumps can be fitted with our 'Guide Rail' system for ease of cleaning and maintenance.

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SUBMERSIBLE SEWAGE PUMPS

Pump Technology offer and STOCK a comprehensive range of these pumps.

We can provide the right solution for challenging pumping applications.

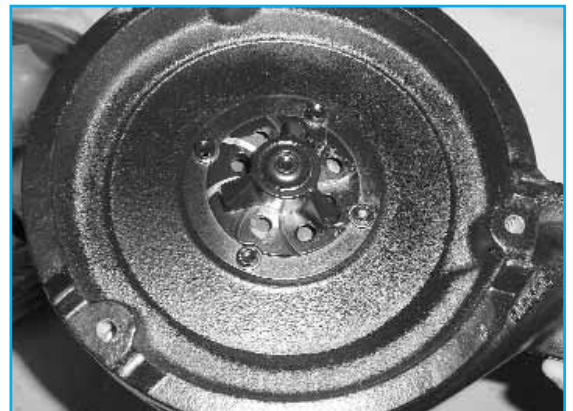
Contact our Technical helpline for Full Specifications !

MULTICUT SUBMERSIBLE PUMPS



- Sewage and Waste Disposal solution
- Holiday/Caravan Parks. Rural or remote situations
- Estates or individual housing projects
- Small bore pipework over long distances and difficult or uneven ground conditions
- Combined cutting and pumping operation for trouble free low-cost effluent disposal.

- PUMPS UP TO 50M HEAD
- BUILT-IN MOTOR PROTECTION
- EXTERNAL ADJUSTABLE CUTTING SYSTEM
- CUTTER SYSTEM DESIGNED FOR HIGH PERFORMANCE



COMBINED IMPELLOR & CUTTER PLATE
TO IMPROVE SUCTION PERFORMANCE



VORTEX SUBMERSIBLE PUMPS

This range of pumps is ideal for pumping waste water containing solid matter or domestic sewage such as waste from toilets, washing machines, etc.

Pumps from the range make an ideal Sump Pump.

Built-in features make these market leading pumps robust and long lived.

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DRY DECK 20



WET-ROOM PUMPED SHOWER DRAINAGE SOLUTIONS

for minimal access wet-room applications

In many contemporary shower and wet-rooms a gravity drain is not a feasible. In a loft conversion, where room height is constrained, or in a basement waste water outlet is higher than the shower gully, an alternative system is required.

The Whale Dry-Deck system provides the solution.

This electrically powered pump system is quiet and compact.

It can be concealed in a stud wall

Features and Benefits

- The pump gully requires a minimal installation depth of only 35mm
- Almost silent when running
- No filter in waste system - no cleaning required
- Valves integral to the pump prevents odours escaping from the drainage system
- The flow rate of the Dry-Deck system automatically adjusts to changes in shower flow rates

Installations

- Ideal for wet-room applications
- Maximizes vertical space - ideal for loft conversions or other areas or restricted headroom
- Capable of pumping up to the ground floor waste outlet - ideal for basement shower installations
- May be used with conventional shower trays and tiled or vinyl floored wet-rooms
- Compact transformer, control unit and pump - easy to conceal

Warranty

- The Dry-Deck system carries a two year manufacturer's warranty

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Dry-Deck 20

The easy drainage solution for wet rooms in difficult locations

Dry-Deck 20 is a well proven and trusted product from Whale that provides the answer for many conversion and renovation projects.

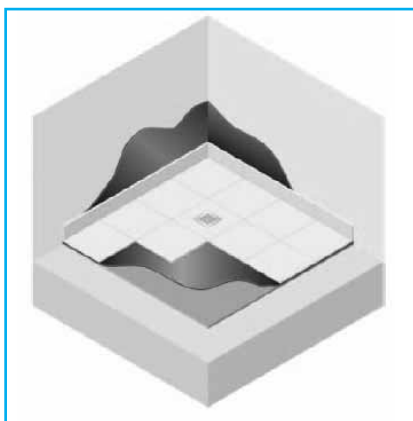
The range of shallow pumped gulley allows installation of walk-in showers and wet rooms in locations where this previously would not have been possible.

Features and Benefits

- Flow rate of up to 20 ltrs/min.
- Flow rate adjusts to changes in shower flow rate.
- Almost silent when running.
- Valves prevent odours escaping.
- Easily concealed components.

Typical wet floor options

The following details feature the 'Aqua-Dec' wet-room floor former which has a 22mm depth profile. It is ideal for restricted depth showers and locations requiring the Dry-Deck 20 system.



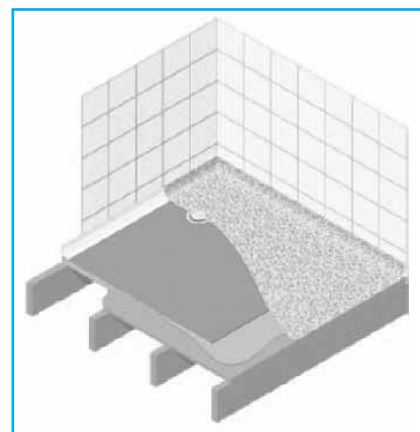
Concrete floor with tiled surface

For concrete floors, the shower base is let into the concrete screed. When the pipework has been installed, the shower base can be bedded down to sit level with the existing floor. The final floor covering can then be applied (vinyl or tiled).

Typical Installations

- Wetrooms where the drainage down pipe is remote from the shower and gravity drainage is not an option.
- Loft conversions where height constraints apply and it is not desirable to raise the floor level.

Whale has expertise in this specialist area since 1995. The reliability of the Dry-Deck system gives peace of mind to the home owner.



Timber floor with vinyl covering

The minimal 22mm thickness of this pre-formed shower base is ideal for most timber floors. To fit the base, the floor boards are removed. When the drainage and the pipework have been installed, the base can be permanently fixed to the joists. The remaining floor must finish level with the Aqua-Dec's edges in preparation for the floor covering.

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GREASE MANAGEMENT

ENVIRONMENT
FRIENDLY

DRAIN DOSING

**ALL UNITS are PRE-PROGRAMMED, READY-TO-FIT
and include Bacti-G Bio Enzyme**



DrainDoser

The DrainDoser provides a reliable drain dosing solution for smaller catering establishments

- Easy wall mounting
- Simple to maintain
- Mains or Battery operation

The DrainDoser is best used in CONJUNCTION with a Grease Separator which acts as a point of treatment.

**CALL US ON 01189 821555 for assistance with
all of your GREASE MANAGEMENT PROBLEMS**

Systems available for:

- RESTAURANTS
- HOTELS
- AIRPORTS
- OFFICE BLOCKS
- STADIUMS
- COLLEGES
- HOSPITALS
- & MANY MORE



DrainDoser Plus

- Attractive Stainless Steel Cabinet provides additional protection for the DrainDoser
- Allows the Bacti-G Bio Enzyme to be stored out of the way off the floor

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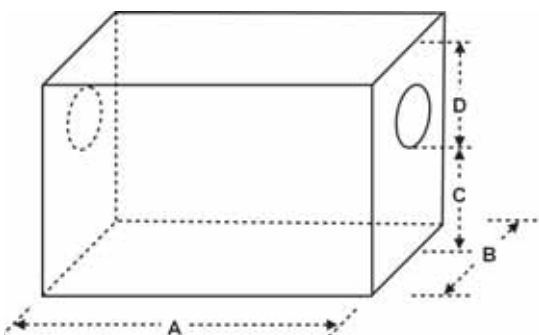
GREASE MANAGEMENT

ENVIRONMENT
FRIENDLY

GREASEMASTER GREASE SEPARATORS

FEATURES

- LASER CUT & COMPUTER FOLDED FABRICATED IN 304 STAINLESS
- INLET/OUTLET CONNECTIONS COMPATIBLE WITH Ø110mm PVC, STAINLESS & CAST IRON PIPEWORK
- TRIED AND TESTED SIZES, COMPATIBLE WITH MODERN KITCHEN INSTALLATIONS AND REQUIREMENTS



	Inlet/Outlet ø	A	B	C	D	Application
GM100	110mm	600	450	250	200	1 - 2 Sinks
GM120	110mm	750	500	300	200	2 - 3 Sinks
GM230	110mm	950	650	375	200	3 + Sinks

**We have GREASE MANAGEMENT Systems
for a wide range of applications
talk to our Technical Team on 01189 821555**

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1. DEFINITIONS

- (a) The term 'Company' shall mean Pump Technology Limited and its trading divisions.
 (b) The term 'Customer' shall mean any person, firm or company who purchases goods or services from the company.

2. CONDITIONS

These conditions apply to and are deemed to be incorporated in all orders, contracts, quotations and tenders for the supply and sale of goods or services by the Company. These conditions supersede any terms and conditions contained in any Customer's order unless otherwise agreed in writing by the company.

3. QUOTATIONS

Quotations are made upon the basis of materials and labour prevailing at the date thereof and are open for acceptance for a period of thirty days from the date of quotation. Should a quotation not be accepted within thirty days the quotation may be subject to alteration to take account of increases in costs. In addition the quotation may be withdrawn at any time prior to acceptance in writing. Stenographical errors or clerical errors, if any, are subject to subsequent correction.

4. PUBLISHED PRICES

Orders placed will be charged at prices current at the time of delivery.

5. VALUE ADDED TAX

All prices quoted are exclusive of Value Added Tax.

6. ACCOUNTS

Credit accounts can only be opened at the Company's discretion and subject to satisfactory references being given otherwise remittances must be sent with orders.

Where a credit account has been opened goods shall be paid for 30 days from invoice date. The Company reserves the right to set a maximum amount of credit allowable upon each account and to withdraw credit facilities without explanation.

In the event of non payment in accordance with the credit terms the whole of the price for all goods sold by the Company to the Customer whether under this or any other contract, shall immediately become due and payable and the Company reserves the right at its option to cancel or postpone the further performance of its obligations whether under this or any other contract without prejudice to any other right or remedy available to the Customer.

As signatories to the Better Payment Practice Code we reserve the right to charge the Customer Statutory interest in accordance with 'The Late Payment of Commercial Debts (Interest) Act 1998', normally 8% above the Reference Rate (Bank of England Base Rate), until payment is made in full. See www.payontime.co.uk

7. DESCRIPTION AND QUALITY

Illustrations, descriptions, weights and technical data in any of the Company's catalogues, price lists and statements (written or oral) made by any representative of the Company are provided to give customers an approximate picture and description only and do not form the basis of any contractual liability.

No warranty or condition that the article shall accord with such illustration, description or statement is to be implied and any warranty or condition capable of or arising is hereby excluded. Designs of goods are subject to alteration without notice.

All quotations given and sales made are upon the condition that although goods supplied are of sound commercial quality, the Company can accept no liability as to their suitability for any purpose other than that specified in writing by the Customer at or prior to the time of sale.

8. GUARANTEE

If during the period of twelve calendar months from the date of supply by the Company of any products shall be proved by the customer to the satisfaction of the Company to be defective by reason of faulty design, or defective materials of manufacture, and the Company is notified within 7 days in writing of the alleged defect becoming apparent and the defective products are returned carriage paid to the Company then the Company shall at its option and without cost to the Purchaser either repair or replace the defective product, provided however that:

- (a) If without the prior written consent of the Company repairs or replacements are made by the Purchaser to a product the Company shall be under no liability whatsoever under this clause 8 and no allowance shall be made for any repairs or alterations so made.
 (b) No liability for loss or damage shall attach to the Company until the product has been paid for. The Company shall be under no liability for loss or damage in respect of any product which has not in its absolute opinion been properly installed, maintained and operated save as aforesaid. The liability of the Company in respect of products supplied, or any loss or damage, or secondary or remoter losses attributable thereto (directly or indirectly) is limited to making good by supplying replacements. At the expiration of the periods mentioned in the introduction to clause 8 hereof all liability on the part of the Company in respect of any product shall cease. The Company shall in no way be liable for any consequential loss or damage. At the expiration of the periods mentioned in the introduction to clause 8 hereof all liability on the part of the Company in respect of any product shall cease. The Company shall in no way be liable for any consequential loss or damage. The Company shall be under no liability whatsoever including (but without prejudice to the generality of the foregoing) any liability in tort for any defects in, or failure of, or unsuitability for any purpose of the products, whether the same be due (directly or indirectly) to any act, omission, negligence or wilful default of the Company or its servants or agents or to faulty design, manufacture or materials, or to any other cause whatsoever, including (but without prejudice to generality of the foregoing) any breach by the Company, its servants or agents of any terms, of the contract to which these Conditions relate.

9. TEST AND INSPECTION

Special tests or tests in the presence of the Customer or his representative will be charged to the Customer unless otherwise agreed in writing. In the event of delay on the Customer's part or his representative's part in attending such tests, after 7 days notice of the place and time of such tests, the tests will proceed in the Customer's absence and shall be deemed to have been carried out in the Customer's presence.

10. PASSING OF PROPERTY AND RISK

- (a) The risk in the goods shall pass to the Customer on delivery.
 (b) Title to the goods shall remain vested in the Company after delivery until payment of all sums (whether arising out of this or any other contract) has been made in full to the Company.
 (c) As long as title in the goods remains vested in the Company and the goods are in possession or under the control of the Customer, the following provisions will apply:
 i) The Customer may (unless otherwise notified in writing by the Company) use, sell or otherwise deal with the goods in the ordinary course of business.
 ii) The Customer shall separately store and keep clearly identified the goods from other goods.
 iii) The Company may at any time on giving prior notice enter the premises of the Customer for the purpose of inspecting and identifying the goods and the Customer irrevocably authorises the Company to enter upon its premises for that purpose.
 iv) The Company may at any time revoke the Customer's powers in i) above by notice to the Customer if the Customer is in default for longer than 7 days in the payment of any sum whatsoever due to the Company under this or any other contract or if the Company has bonafide doubts as to the solvency of the Customer.
 v) The Customer's powers in i) above shall automatically cease if a receiver is appointed over any assets of the undertaking of the Customer or a winding up order is made against the Customer or the Customer goes into voluntary liquidation (otherwise than for the purpose of reconstruction or amalgamation) or calls a meeting of, or makes any arrangement or composition with creditors or commits any act of bankruptcy.
 vi) Upon determination of the Customer's powers in i) above the Customer shall place the goods at the disposal of the Company who shall be entitled to enter upon any premises of the Customer for the purpose of removing such goods from the premises (including severance from realty where necessary).
 vii) If goods are returned or repossessed in accordance with foregoing provisions the Company shall repay to the Customer any sums received from the Customer in part payment of the price of the goods up to a maximum amount equal to the current market value of the goods based on their condition at the time of return or repossession and after deducting all costs and expenses of the Company in having the goods returned or repossessed and subject also to any right of set off the Company may have in respect of other sums owing by the Customer to the Company.

11. DELIVERY

Dates quoted for delivery are approximate only and in this respect time shall not be of the essence of the contract. It shall suffice for the Company to delivery within a reasonable time of the date of delivery quoted, regard being had to all the surrounding circumstances. Where the Company offers delivery to a site nominated by the Customer, then its obligation shall be to deliver as near to the site as a safe hard road permits. The Customer shall provide free of charge any labour or machinery required for the purpose of unloading, loading or stacking.

In the event of any goods or any packing or container being delivered and deposited, whether on the public highway or elsewhere the Customer shall be responsible for all steps which need to be taken for the protection of persons or property in relation to such goods, packing or container and shall indemnify the Company in respect of all or any costs, claims, losses or expenses which the Company may incur as a result of such delivery.

The Company cannot accept liability for any direct or indirect loss arising from delays caused by fire, flood, loss or delay in transit, strike, lockout or from any other cause beyond the Company's reasonable control.

12. CANCELLATION OF ORDERS

The Company reserves the right to charge the Customer for all costs incurred on cancelled orders.

13. EXAMINATION OF GOODS

Goods must be examined forthwith on delivery. The Company shall replace any goods damaged or lost in transit to the place of delivery provided such damage or loss is reported to the Company within 3 working days of such delivery. No other liability shall be accepted by the Company in respect of any such damage or loss. Any rejection of the goods on any other grounds must be communicated to the Company within 10 working days.

14. CARRIAGE

Carriage charges will be invoiced to the Customer at rates which shall be determined by the Company from time to time unless specifically excluded in writing. When part deliveries are made on the Customer's instruction the same conditions apply as for whole and complete deliveries.

15. LAW

The contract between the Company and the Customer for the supply of goods or services which includes these conditions shall be governed and construed and shall take effect in accordance with the laws of England.

MACERATORS - SEWAGE PUMPS/SYSTEMS WASTE WATER PUMPING SYSTEMS SUBMERSIBLE PUMPS - WATER BOOSTER SETS CONDENSATE PUMPS - RECYCLING PUMPS

PUMP TECHNOLOGY LIMITED has available a wide range of pumps and pumping systems.

We are **SPECIALISTS** in providing pumps for **SPECIAL APPLICATIONS**.

The market for **SEWAGE PUMPS / WASTE WATER PUMPS / WATER BOOSTER PUMPS** is growing.

When **SPECIFIERS** require information on **PUMPS OR PUMPING SYSTEMS** then contact the **SPECIALISTS**:

PUMP TECHNOLOGY LIMITED

LET OUR EXPERT STAFF help **YOU** to specify the correct pump for your particular application.
PUMP TECHNOLOGY is a specialist distributor of pumps for leading **UK & GERMAN** products
ASSEMBLED TO OUR OWN RIGOROUS SPECIFICATIONS
We are also specialist distributors for **SANIFIO**

*If you have a requirement to pump sewage and/or waste water
or if you require pressurised booster sets, LET US SOLVE YOUR PROBLEM.
SEWAGE PUMPING STATIONS A SPECIALITY*

PUMP TECHNOLOGY are specialists in putting together systems especially in **COMMERCIAL** and **INDUSTRIAL** situations.

Many of these can be assembled in **24 - 48 hours**.

For example:

Pumping Waste Water (commercial sinks, dishwashers/glasswashers) with difficult runs, high heads or very hot water.

Pumping sewage using either floor mounted tank systems or below ground tank systems for multiple toilet arrangements
WHERE DOMESTIC MACERATORS ARE TOTALLY UNSUITABLE.

PUMP TECHNOLOGY IS SPECIAL!

-  **Super FAST Response Times.....**
BASIC installations can usually be quoted and Specified in 30 Minutes
More complex installations still only take 4 to 5 hours
-  **Remember - the more information (details, dimensions, schematics etc.) that we have, the faster and more accurate our quotation.**
-  **Our extensive range and massive stock enables your project to be completed on time and on budget!**



Official
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**London
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Our Service is WELL BEYOND that offered by most other suppliers.

***Pick up the phone
and give us a try!***

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