

# **PUMP**

## **TECHNOLOGY LTD**

**ONE STOP  
PUMP SHOP**

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



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

Whatever the pumping requirement call.....



# **PUMP**

## **TECHNOLOGY LTD**

Tel: 0118 9821555 Fax: 0118 9821666  
E-mail: [support@pumptechnology.co.uk](mailto:support@pumptechnology.co.uk)  
Website: [www.pumptechnology.co.uk](http://www.pumptechnology.co.uk)

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:**



### Quality Assured



### Accreditations



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

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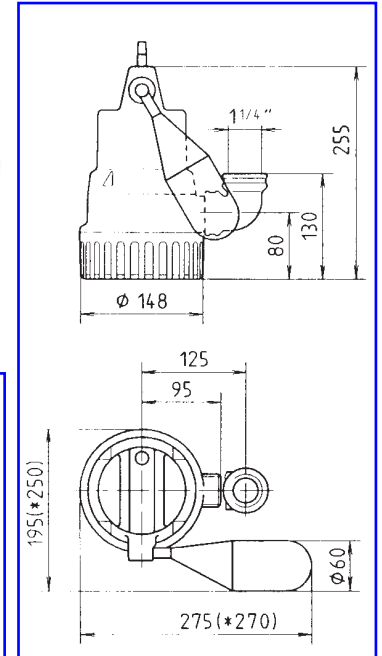
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### DRAINMINOR

The complete, automatic, waste water pumping system!

- ✓ EASY TO INSTALL
- ✓ HANDLES 10mm SOLIDS
- ✓ COMPACT SIZE:  
Fits into a very small space 322mm high x 380mm wide x 290mm 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

### PUMPS DOMESTIC WASTE WATER FROM:

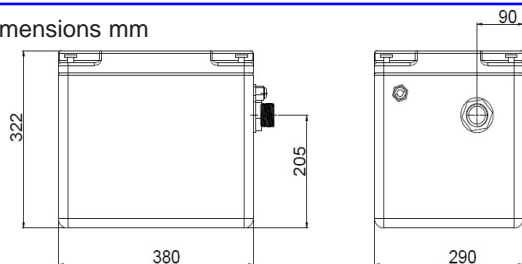
- KITCHEN SINKS
- BASINS
- SHOWERS & BATHS (special "low level" float required) see over
- WASHING MACHINES & DISHWASHERS (special "low level" float required) see over



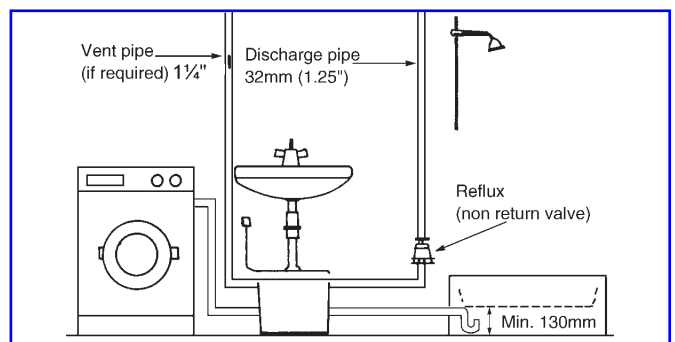
#### DRAINMAJOR

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

Dimensions mm



25 ltr Approx Capacity



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

Tel: 0118 9821555 Fax: 0118 9821666

E-mail: support@pumptechnology.co.uk

Web Site: www.pumptechnology.co.uk



# DRAINMINOR DOMESTIC, LIGHT COMMERCIAL, 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 polyethylene 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 IP 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.

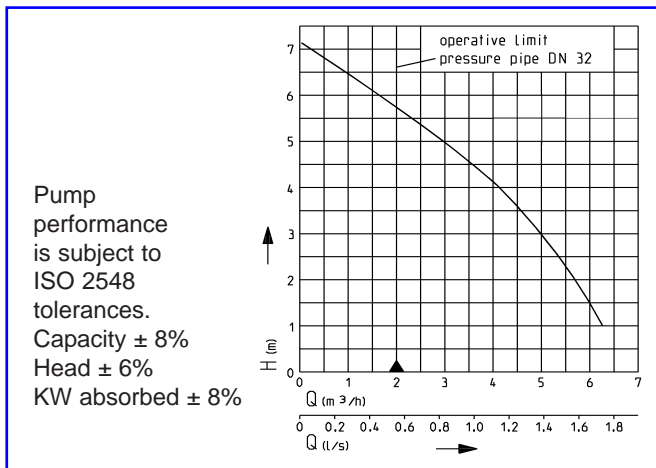
ALL INVERTS TO BE MADE TO SIDE OF TANK USING TANK CONNECTORS.

1¼" MINIMUM VENT TO AIR REQUIRED.

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

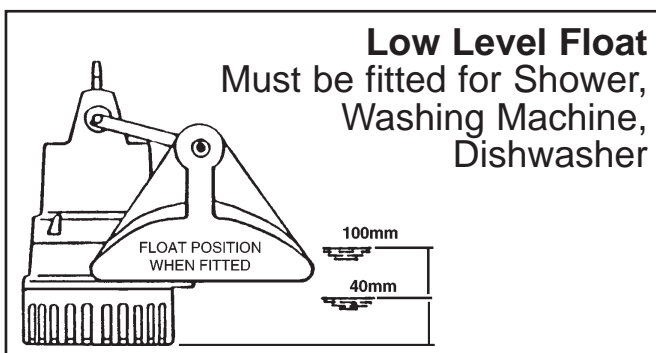
**Pump Technology Limited on 01189 821555**

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



## 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.

## MAINTENANCE:

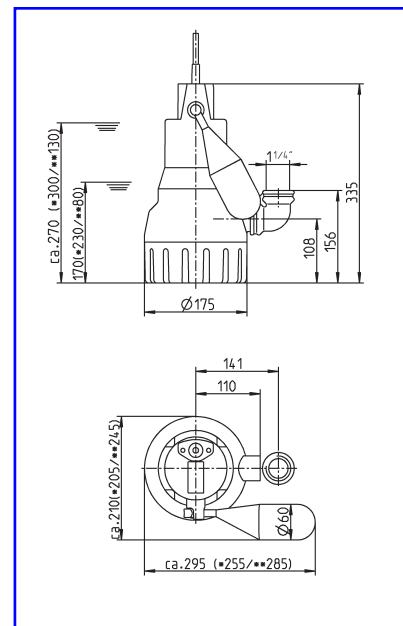
**The DRAINMINOR should have the lid REGULARLY removed for CLEANING of the Tank and Pump**

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

### 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.

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.



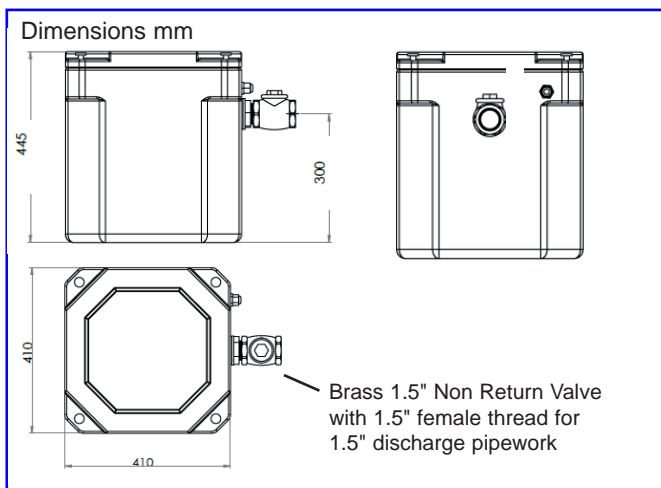
- OFFICES
- WAREHOUSES
- FACTORIES
- SHOPS
- PUBS/CLUBS
- SCHOOLS
- CINEMAS
- THEATRES
- HOSPITALS
- RESTAURANTS

#### 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.



**DRAINMAJOR 60:** The durable tank is manufactured from polypropylene, 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.

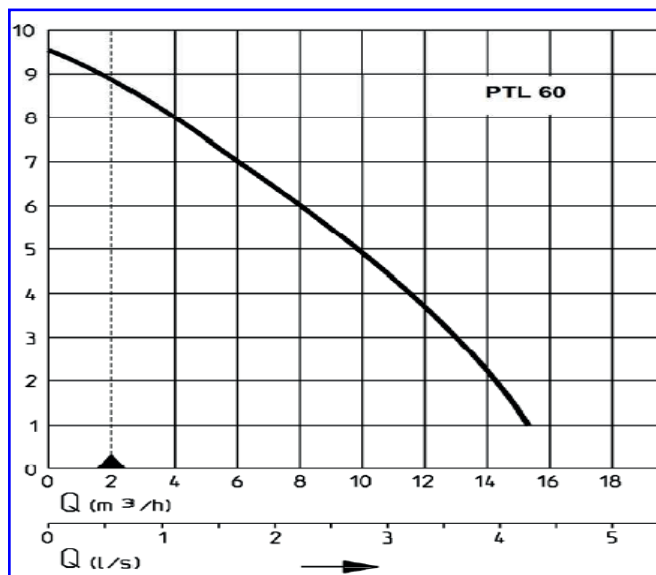
**Shaft Seal:** Silicon carbide mechanical seal, unaffected by dry running for short periods.

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.

1¼" 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 0118 9821555**

The **DRAINMAJOR 730** is recommended for kitchens where **30mm solids handling** capacity is required (e.g. for sinks with waste disposal units). 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

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 120 mm from base of unit.
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 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 730/1030 is a waste water pumping system with awesome power !

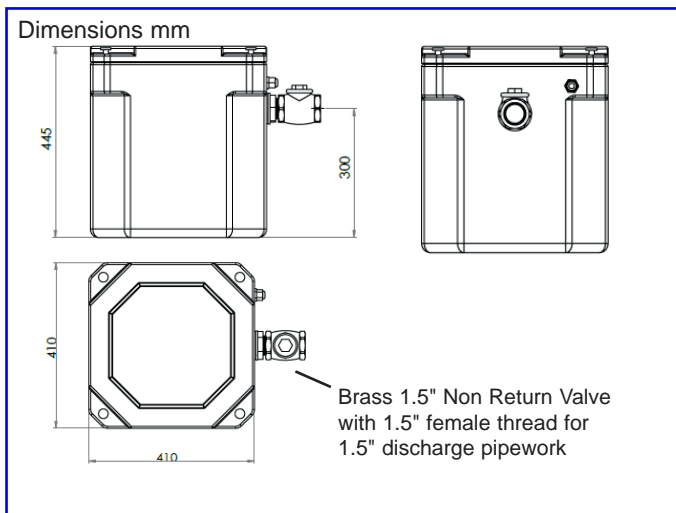
### 30mm Solids Handling Capacity

This unit is designed to pump waste water from Commercial/Industrial sinks, and utility/cleaners sinks.

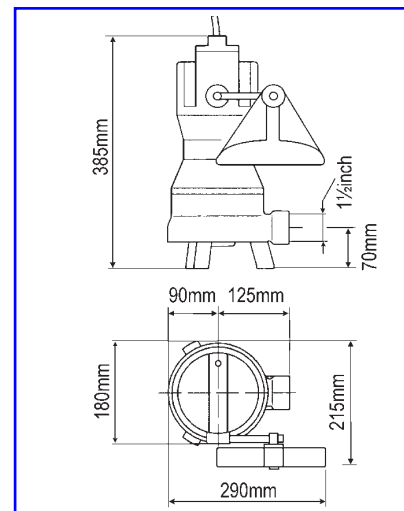
It has been SPECIALLY constructed to handle hot water from commercial dishwashers, washing machines and glass washers, unlike other waste water pumping systems which are unable to cope with such hot water.

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.

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.

**DRAINMAJOR 730/1030:** The durable tank is manufactured from polyethylene 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 1.5" BSP male thread discharge outlet. (NRV supplied is female thread)

**PUMP Type PTL730/1030:** Vertical single-stage, submersible with free inlet, spiral casing with 1.5" horizontal discharge open vortex impeller, (30 mm solids handling capacity).

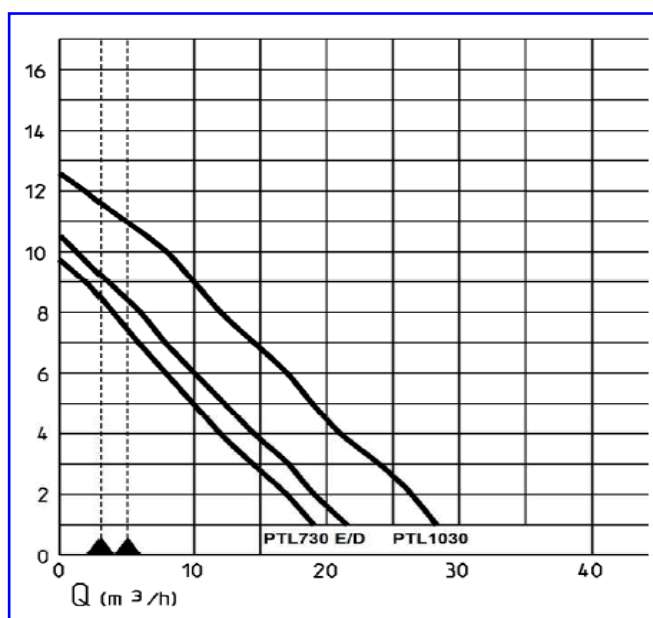
**Motor:** Fully encapsulated submersible motor with built-in overload/thermal cut-out, watertight (IP68) enclosure, class B insulation. Supplied with built-in level switch.

**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 0118 9821555**

**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

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 0118 9821555 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 155 mm from base of unit for the 730 and 185mm for the 1030.
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 DUO is a waste water pumping system with awesome power !

### 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.

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.



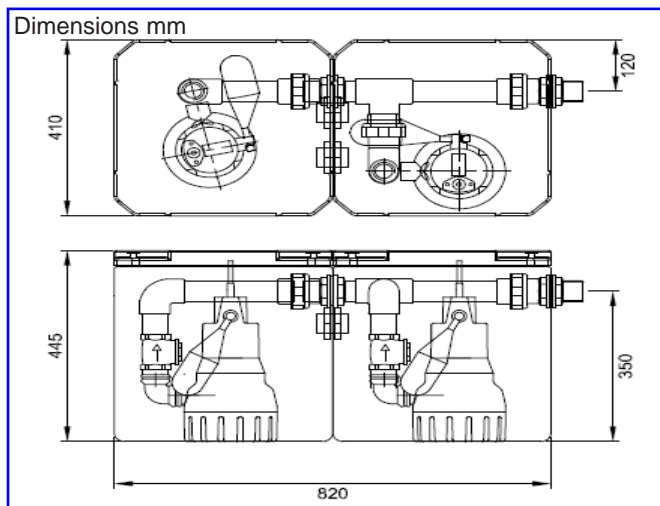
If one pump fails, water flows over central "weir" and activates the other pump.



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

### 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

56 Youngs Industrial Estate, Aldermaston, Berks. RG7 4PW  
 Tel: 0118 9821555 Fax: 0118 9821666  
 E-mail: support@pumptechnology.co.uk  
 Web Site: www.pumptechnology.co.uk



**DRAINMAJOR DUO:** This consists of twin durable tanks manufactured from polyethylene.

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

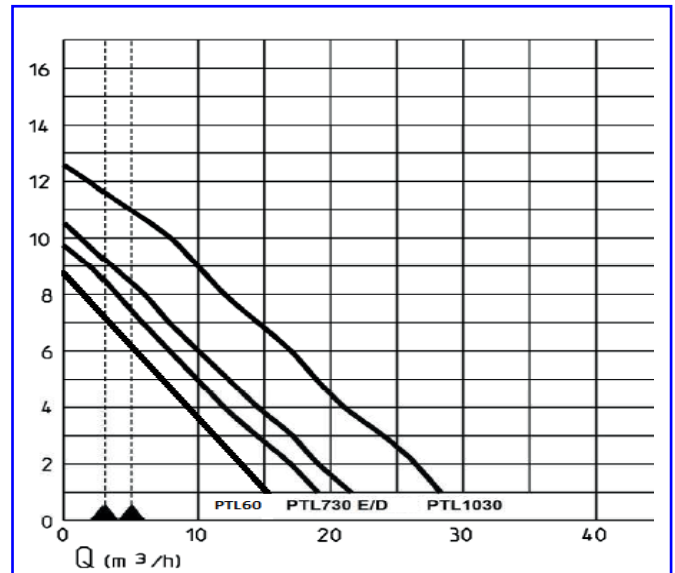
**OUTLETS:** The tank has a 1½" BSP discharge outlet.

**PUMPS X 2:** Vertical centrifugal type, single stage for submerged operation, with strainer base, open impeller.

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

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.



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

The **DRAINMAJOR DUO** comes complete with a one year warranty.  
In the unlikely event of technical difficulties, please ring: **Pump Technology Limited on 0118 9821555**

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
PTL60D	3-phase 400V	0.75kW	0.60kW	1.3A	2800		10mm
PTL 730E	single phase 230 V	0.83kW	0.50kW	3.9A	2500		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

## INSTALLATION DRAINMAJOR DUO *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 pumps are 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 120 mm from base of unit for the PTL 60, 155mm for the PTL730 and 185mm for the PTL1030.
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 DUO** should have the lid **REGULARLY** removed for **CLEANING** of the Tank and Pump*

## DRAINING

### 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.

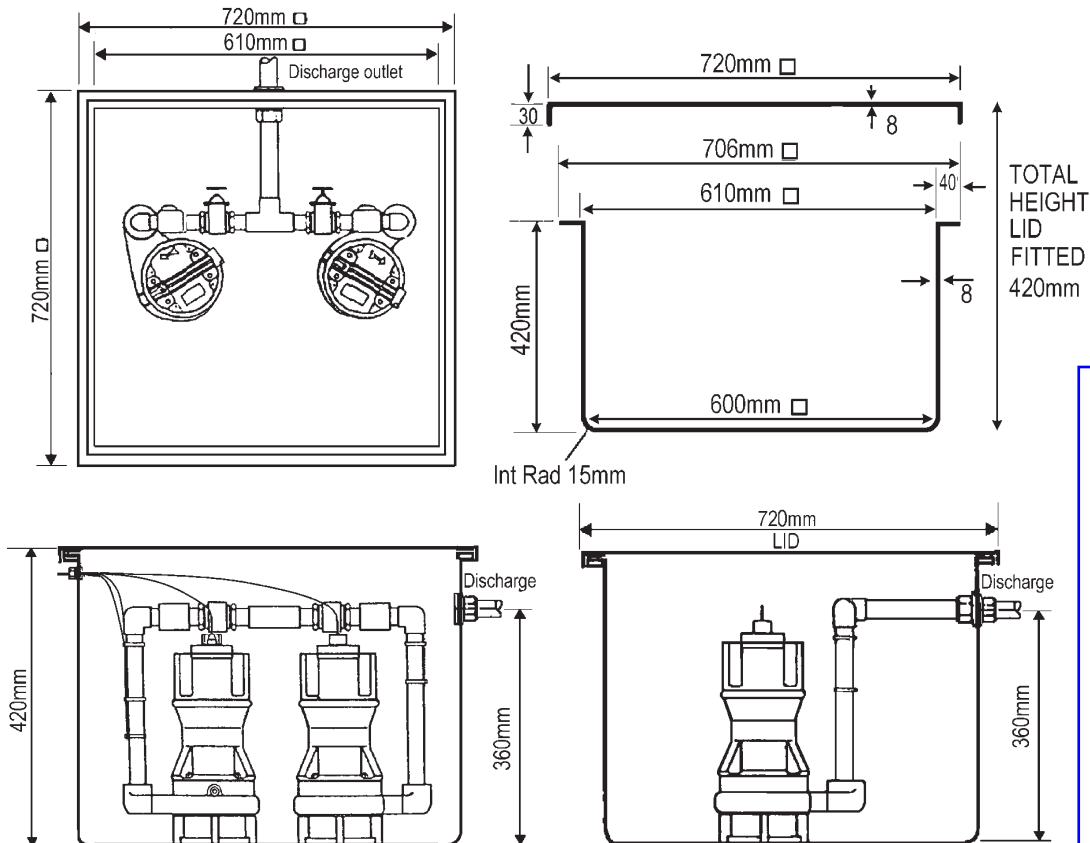
This unit is **SPECIALLY DESIGNED** to pump waste water from commercial/industrial kitchen sinks (with waste disposal units), commercial dishwashers, glasswashers, washing machines and utility/cleaners sinks. The system is **DESIGNED TO HANDLE VERY HOT WATER** from commercial pumped appliances (i.e. 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: 0118 9821555 Fax: 0118 9821666

E-mail: support@pumptechnology.co.uk

Web Site: www.pumptechnology.co.uk

**DRAIN-KING:** 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:** Vertical single-stage, submersible with free inlet, volute casing with 1½" (female) pressure branch, open centrifugal impeller, (30 mm solids handling capacity).

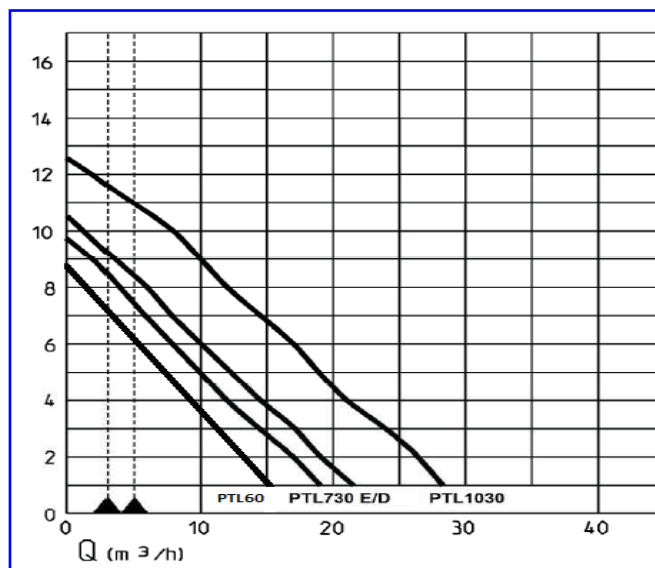
**Motor:** Submersible, oil filled motor, type of enclosure IP68, insulation class B, starting via plug or automatic circuit.

**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** comes complete with a one year warranty. In the unlikely event of technical difficulties, please ring:  
**Pump Technology Limited on 0118 9821555**

**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
PTL60D	3-phase 400V	0.75kW	0.60kW	1.3A	2800		10mm
PTL 730E	single phase 230 V	0.83kW	0.50kW	3.9A	2500		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

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 0118 9821555 for further information.**

## INSTALLATION **DRAIN-KING** *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-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** should have the lid **REGULARLY** removed for **CLEANING** of the Tank and Pump



# FLUSHMASTER - The **ONLY** TOILET Unit which can do things the others can't!

- Pump **FURTHER** and **HIGHER**
- Run **HORIZONTALLY** first
- Pump a **DOUBLE LIFT**
- Even pump an **UPHILL GRADIENT**

Pumps through  
32mm or 40mm pipe

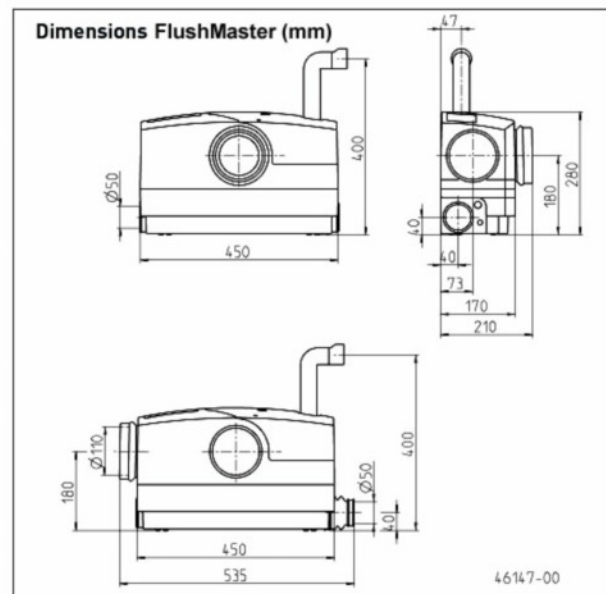
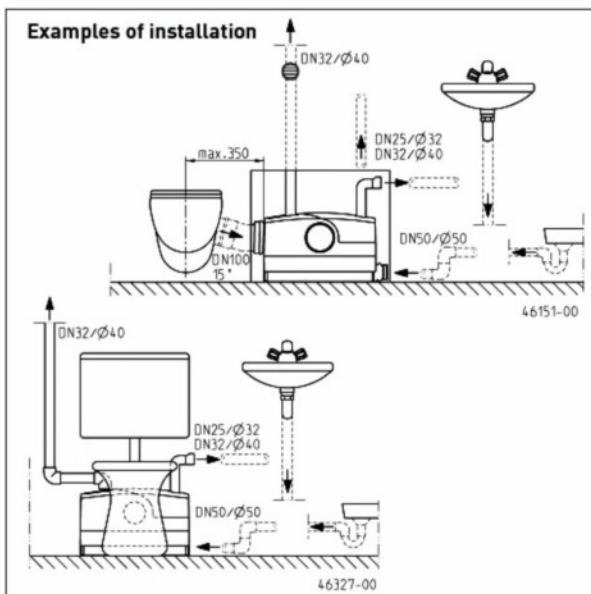
With the FlushMaster you can now fit a toilet almost anywhere.

It can easily discharge via high heads, long pipe runs, multiple bends and double lifts, enabling pipework to be kept hidden out of sight.

This is possible because the **FlushMaster** uses a submersible, open, free flow, vortex impeller pump and not a domestic cutter pump.



## DOUBLE LIFT PIPE RUN CAN EASILY BE HANDLED



**Simple to MAINTAIN and SERVICE**

DOUBLE LIFT PIPE RUN CAN EASILY BE HANDLED

# FLUSHMASTER - FEATURES & BENEFITS:

- **Multiple Uses:**

Suitable for connection to a single toilet, bidet, washbasin or shower (Not a bath or washing machine)

- **Pipe Requirements:**

Pipe requirement- DN32, dia 28 ID or DN40, dia 36 ID

- **Reliable:**

An open vortex pump impeller with large clearances between pump opening and tank floor make the **FlushMaster** more tolerant of user abuse

- **Built-in Alarm:**

An integral, acoustic alarm and volt free connections for coupling to a remote alarm or BMS

- **Simple Un-clogging:**

Un-clog the open Vortex impeller without removing the cover. Simply push a screwdriver down onto the head of the motor / pump shaft, reverse the impeller and the clogged item will probably drop free

- **Stubborn Blockages:**

For more stubborn blockages, simply remove two screws, twist and lift the complete motor / pump assembly away from the collecting tank. This will enable you to see and easily clear the foreign object

- **Easy Component replacement:**

All parts can be simply removed and replaced without removing the tank from the toilet

- **Multiple Connections:**

Each pump is supplied with a full set of installation connections for direct mounting behind the toilet or mounting behind a partition wall



Call the Pump Technology Ltd team today to confirm the FlushMaster is right for your toilet application. **Tel 0118 9821 555**

Pump Technology Ltd products are available from stock & your local merchant.



FREE ADVICE ON THESE AND ANY OTHER PUMP REQUIREMENTS

**0118 9821 555**

**[www. pumptechnology.co.uk](http://www.pumptechnology.co.uk)**

## 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.

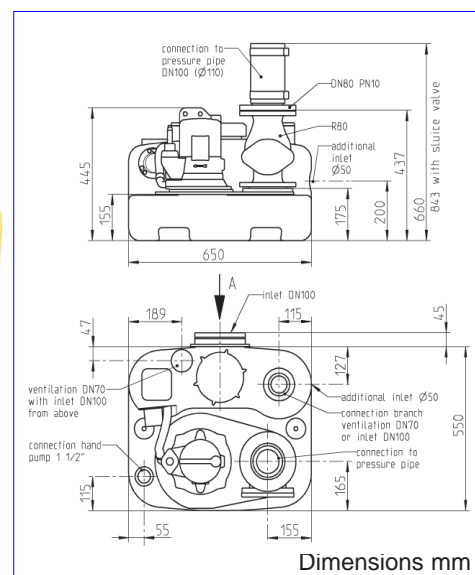
#### DISCHARGE PIPEWORK:

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

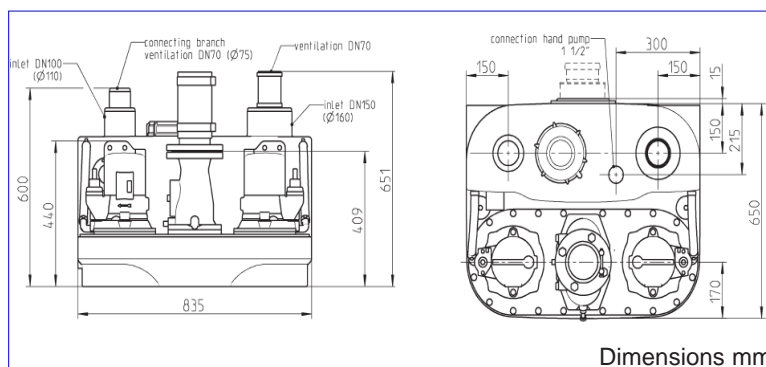
**VENT:** 70mm vent to AIR/ATMOSPHERE is required (a **DURGO / AIR ADMITTANCE VALVE MUST NOT BE USED**) see **Microvent** if venting to air is a problem.



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



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





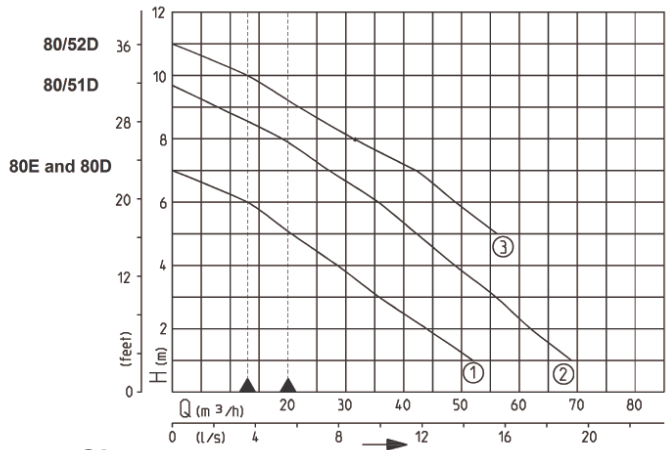
## TECHNICAL DATA

### The EFFLU MAXI:

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



### 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

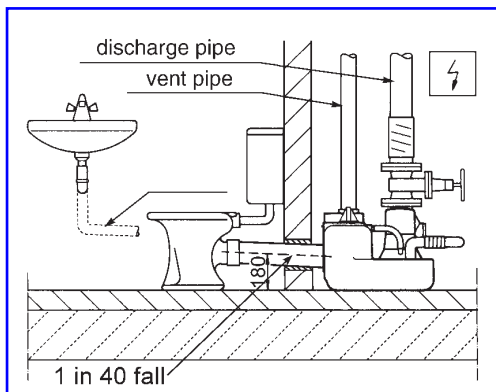
Also available with 250mm floor to centre inlet if required

### EFFLU MAXI 80 Twin

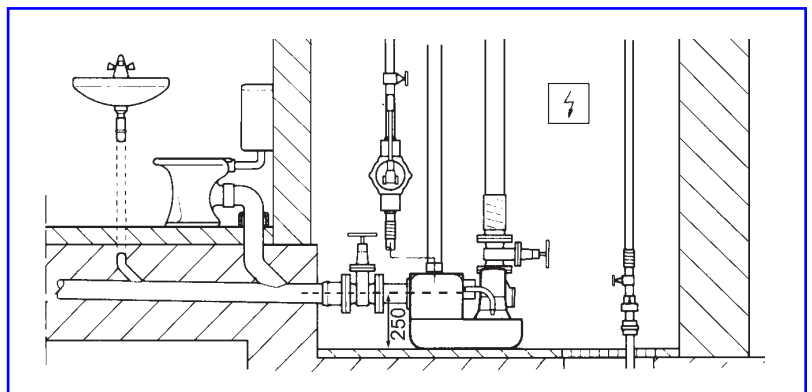
Type	Tank Capacity litres	Floor to Centre Inlet mm	Inlet Flange	Weight kg	Discharge Size	Vent Pipe mm
80 D or E twin	100	250	DN100	140	3" or 4"	70
80/51 D twin	100	250	DN100	140	3" or 4"	70
80/52 D twin	100	250	DN100	140	3" or 4"	70

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

Also available with 180mm and 315mm floor to centre inlet if required



MOUNTING ARRANGEMENTS  
EFFLU MAXI 80 SINGLE PUMP



MOUNTING ARRANGEMENTS  
EFFLU MAXI 80 TWIN PUMP

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

## 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.

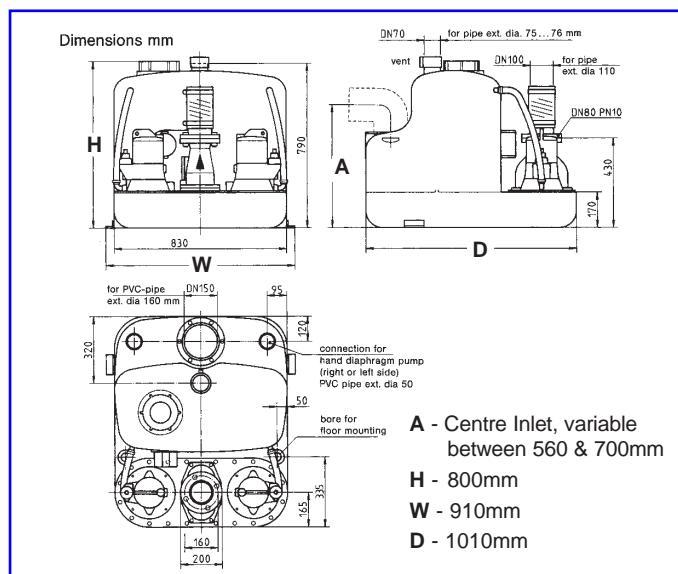
The **EFFLU MAXI** 120 range is ideal in situations where several toilets have to be fitted in one location (together with hand basins, urinals, kitchens and utility sinks).

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 if venting to air is a problem.



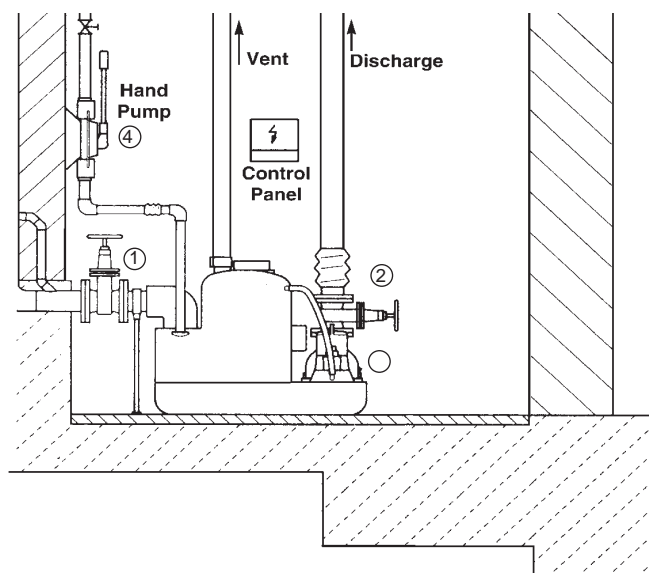
## TECHNICAL DATA

### 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 - 750	DN150	145	4"	70
514	350	560 - 750	DN150	147	4"	70
524	350	560 - 750	DN150	149	4"	70

Type	Supply	Voltage	Motor Rating kw input	Motor Rating kw output	Current Amperes	RPM
014E	1-phase	230	1.55	1.09	6.9	1442
014	3-phase	400	1.30	1.10	2.8	1451
514	3-phase	400	2.20	1.70	3.9	1405
524	3-phase	400	3.00	2.20	5.1	1363

**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 EFFLU MAXI 120:

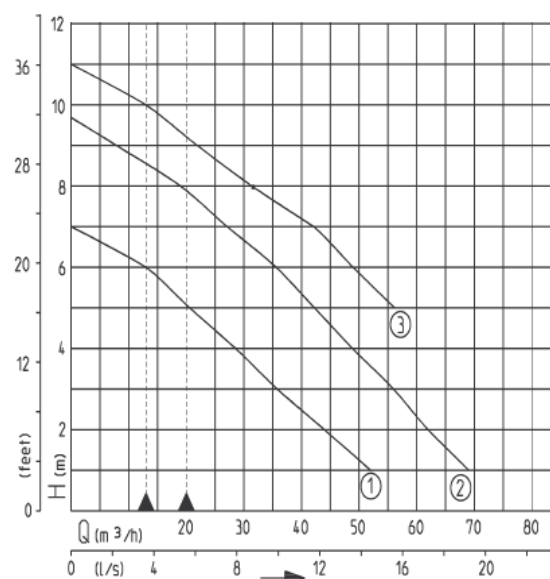
Consists of a Polyethylene tank complete with a discharge non return valve and couplings for all invert, discharge & vent connections including reflux (non return valve).

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.

**524D**

**514D**

**014D**



## The EFFLU GRINDER

High Head pumping unit will pump up to 20 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.

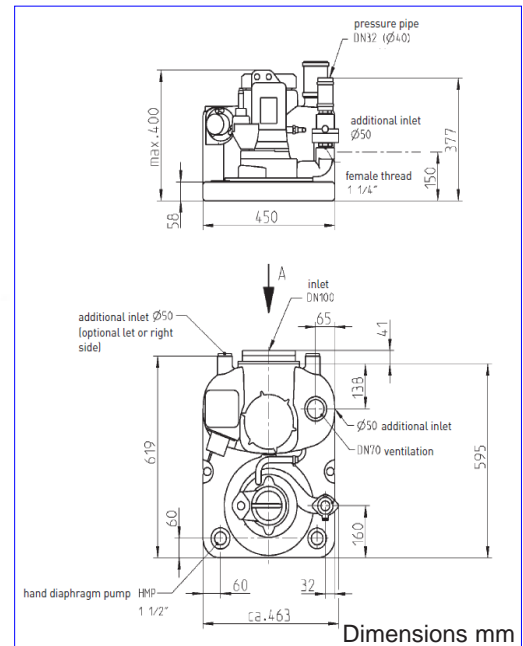
#### DISCHARGE PIPEWORK:

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

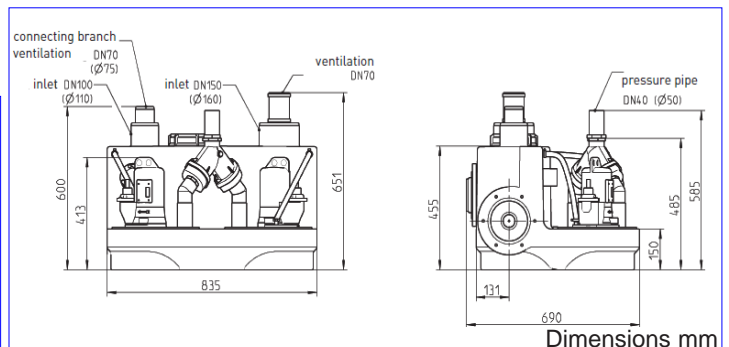
**VENT:** 70mm vent to AIR/ATMOSPHERE is required (a **DURGO / AIR ADMITTANCE VALVE MUST NOT BE USED**) see MICROVENT if venting to air is a problem.



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



**"EFFLU GRINDER"**  
TWIN PACKAGED SEWAGE  
PUMPING UNIT  
WITH POWERFUL  
CUTTER PUMP



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

Tel: 0118 9821555 Fax: 0118 9821666

E-mail: support@pumptechnology.co.uk

Web Site: www.pumptechnology.co.uk



## TECHNICAL DATA

### The EFFLU GRINDER:

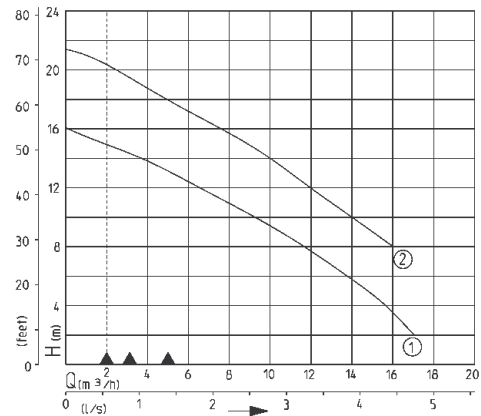
Consists of a Polyethylene tank complete with a discharge non return valve and couplings for all invert, discharge & vent connections including reflux (non return valve). The entire unit is damp and flood-proof and thus ideally suited to placing in unventilated areas or basements subject to accidental 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.**

20D

80E

80D



Type	Tank Capacity litres	Floor to Centre Inlet mm	Inlet Flange	Weight kg	Discharge Size	Vent Pipe mm
Single	38	180 - 250	DN100	42	2"	70
Twin	115	180 - 250	DN100	77	2"	70

Type	Supply	Voltage	Motor Rating kw input	Motor Rating kw output	Current Amperes	RPM
82E	1-phase	230	1.70	1.14	7.5	1442
82	3-phase	400	1.65	1.24	2.8	1451
20	3-phase	400	2.30	1.85	3.9	1405

### 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.

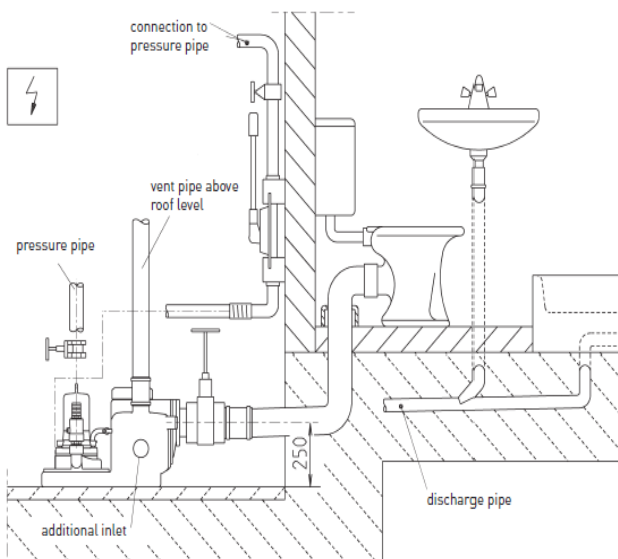
**Shaft seal:** Oil-filled seal chamber between pump and stator casing with wear-resistant silicone carbide primary seal with dry running properties and duplex lip seal as secondary seal.

**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 (EEx dII BT4) in accordance with German specification V.D.E. 0171.

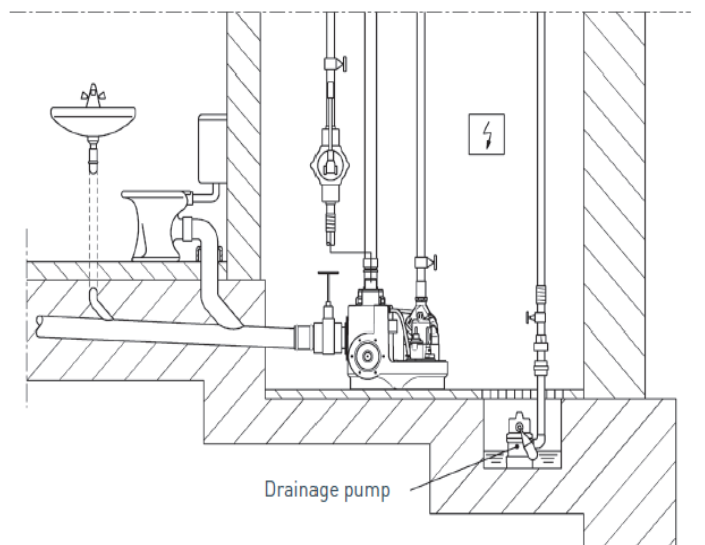
**Materials:** Cast iron pump and motor casings and impeller, corrosion protected shaft (no contact with pumped liquid) stainless steel hardened (HRC 57) cutting system.

**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.

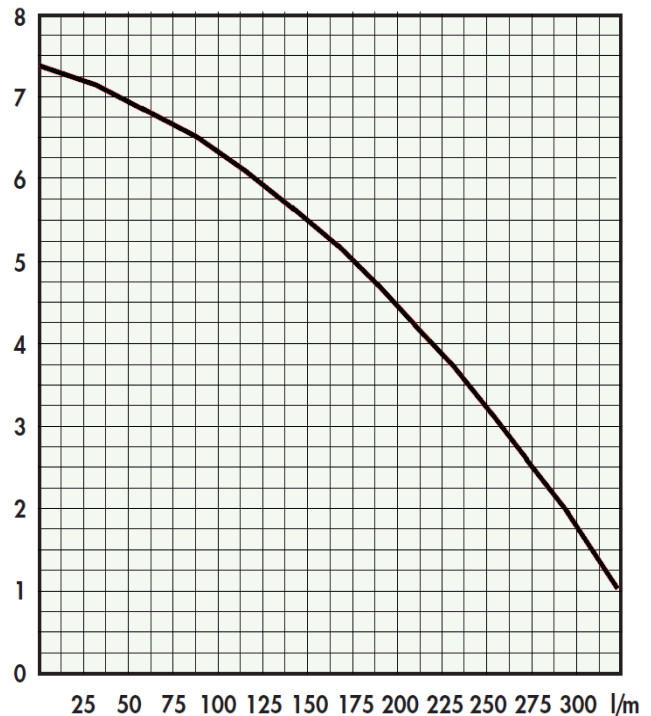
### SINGLE



### TWIN



## MINIMATIC SEWAGE PUMP STATION



### Pump:

Cast iron/stainless steel construction.  
 50mm (2") solids handling capacity  
 Coolant filled motor.  
 Mechanical seal.  
 10 Meter cable.  
 Max 6 Meter lift.  
 Max flow 5 L/sec  
 Float switch as standard

### Tank:

Polyethylene tank. 160L capacity.  
 Screw down lid (Pedestrian rated)  
 1 x 110mm/160mm inlet seal  
 to allow inlet to be drilled on site.  
 40mm cable duct.  
 2" internal pipe work - 2" non-return valve  
 2" quick release coupling - 2" cable duct  
 Special audible/visual high level control box.

The **PTL Minimatic Sewage Pump Station** is suitable for domestic sewage pumping installations where gravity flow is not available. It can also be used for a variety of drainage applications.

It is ideal for extensions, garden rooms and similar small applications and is designed for fast, easy installation.

This unit is particularly suitable when water or sewage is collected at a lower level than the main sewer or a septic tank system and requires pumping uphill into these.

Everything required for the pump station is included, so the installer only needs to supply the pipework to and from the station, plus any fittings.

The **PTL Minimatic Sewage Pump Station** features a high spec. submersible pump with 50mm solid handling for optimum efficiency and peace of mind.

## **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

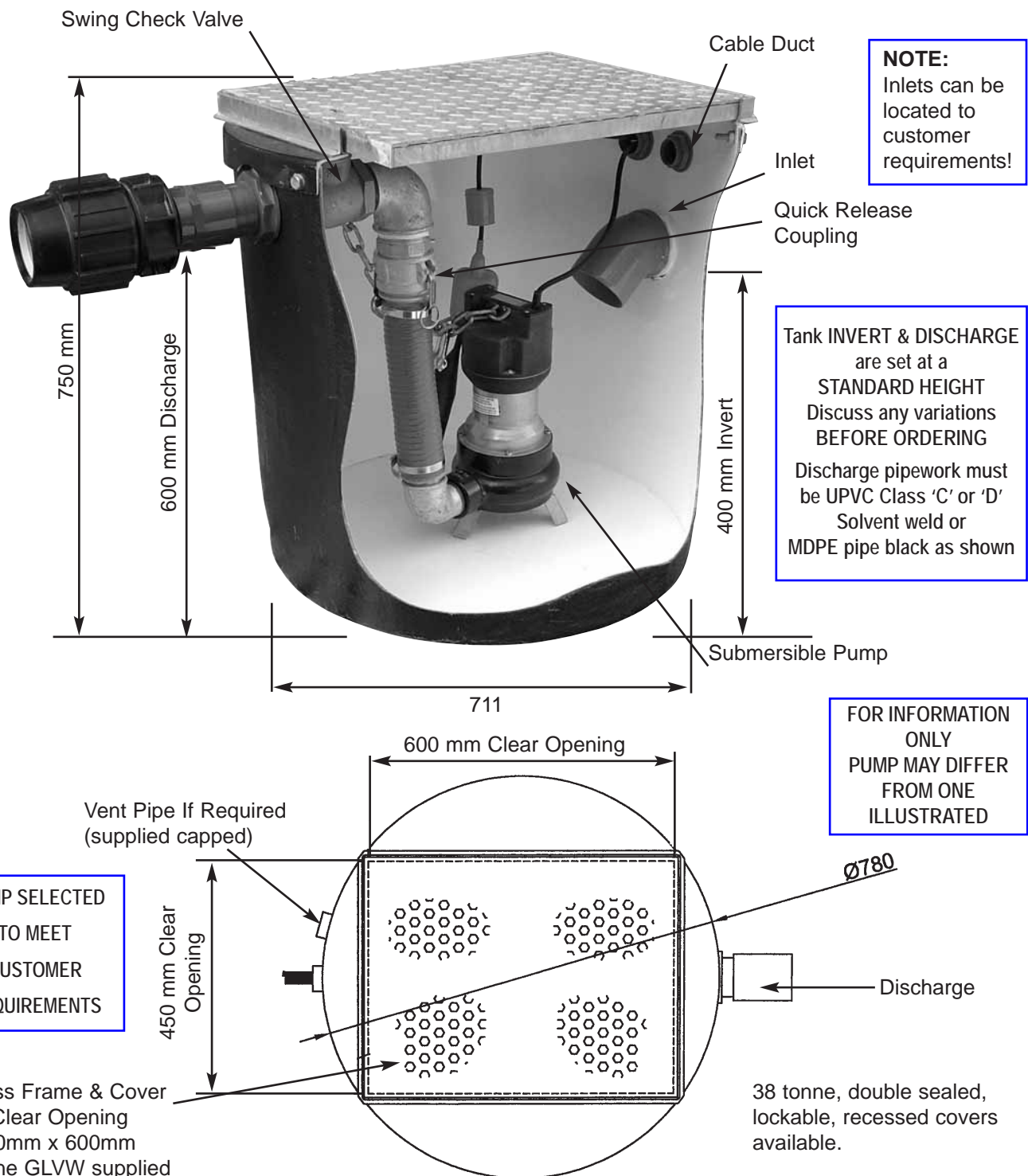
#### **Questions we might ask to get the right system for your application:-**

- 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

Tel: 0118 9821555 Fax: 0118 9821666

E-mail: support@pumptechnology.co.uk

Web Site: www.pumptechnology.co.uk



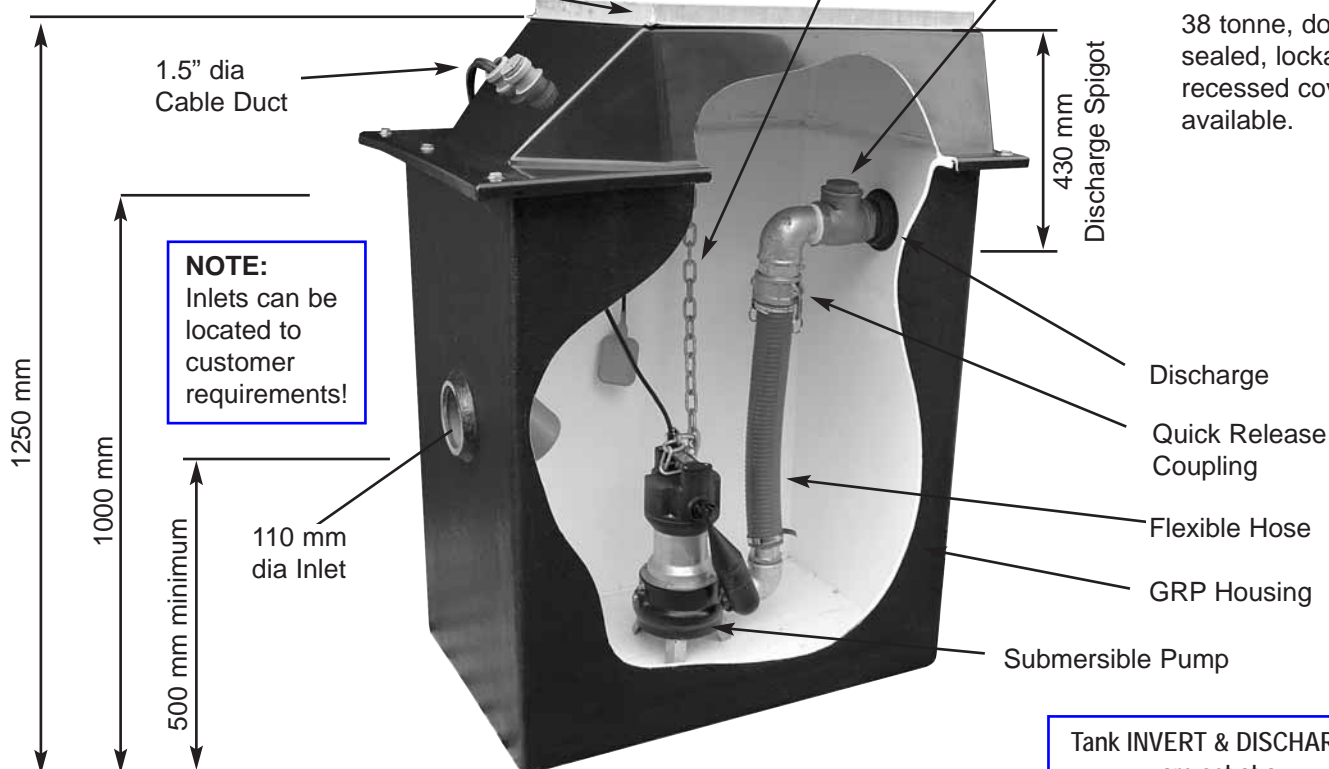
### PUMPMATIC 100 Packaged Sewage Pumping System

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

Lifting Chain on  
Retaining Hook

Swing Check Valve

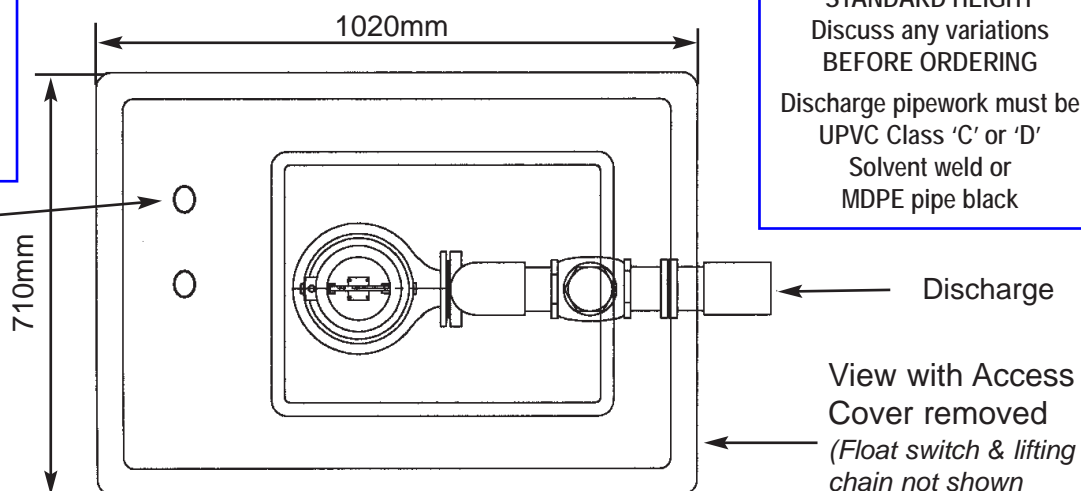
38 tonne, double  
sealed, lockable,  
recessed covers  
available.



FOR INFORMATION  
ONLY  
PUMP MAY DIFFER  
FROM ONE  
ILLUSTRATED

Extra Connection  
fitted for Vent  
Pipe

PUMP SELECTED  
TO MEET  
CUSTOMER  
REQUIREMENTS



Tank INVERT & DISCHARGE  
are set at a  
STANDARD HEIGHT  
Discuss any variations  
BEFORE ORDERING

Discharge pipework must be  
UPVC Class 'C' or 'D'  
Solvent weld or  
MDPE pipe black

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

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Tel: 0118 9821555 Fax: 0118 9821666

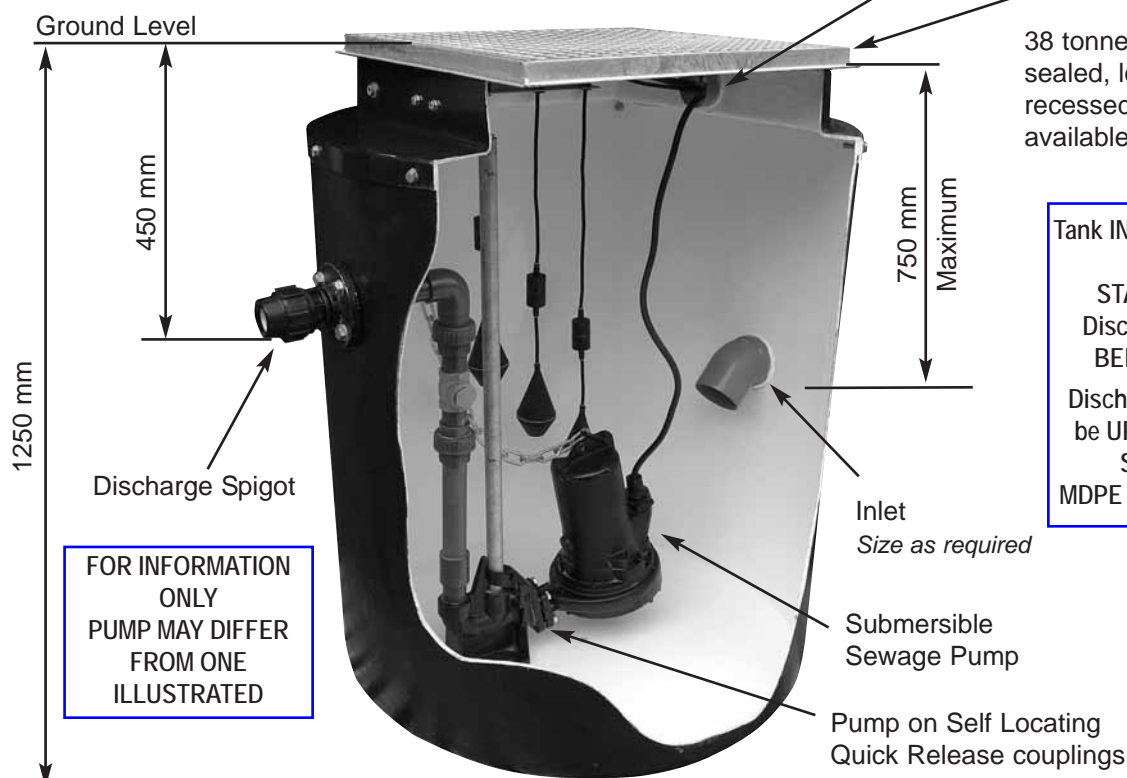
E-mail: support@pumptechnology.co.uk

Web Site: www.pumptechnology.co.uk

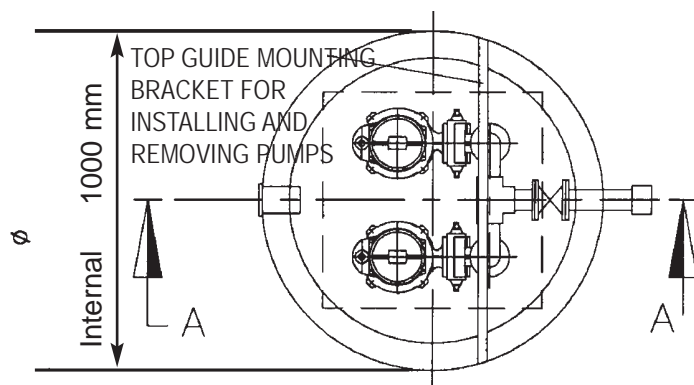
### PUMPMATIC 125 Packaged Sewage Pumping System

PUMP SELECTED  
TO MEET  
CUSTOMER  
REQUIREMENTS

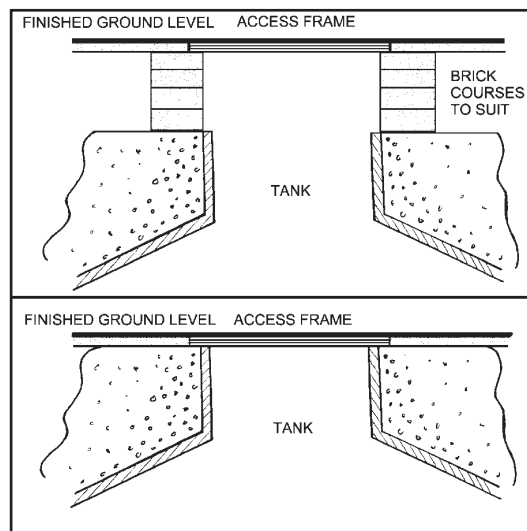
#### SECTION A-A



**NOTE:**  
Inlets can be located to customer requirements!



SECTIONAL PLAN OF GRP TANK



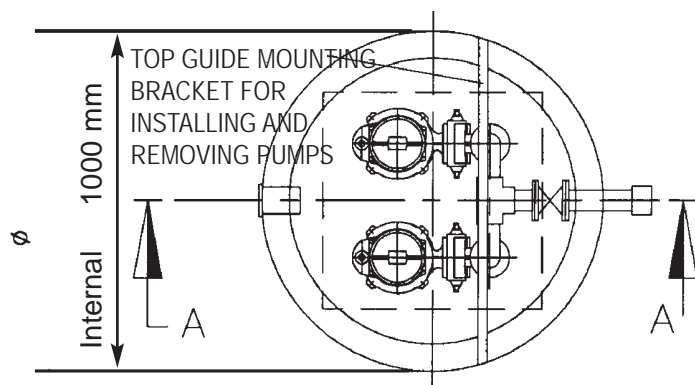
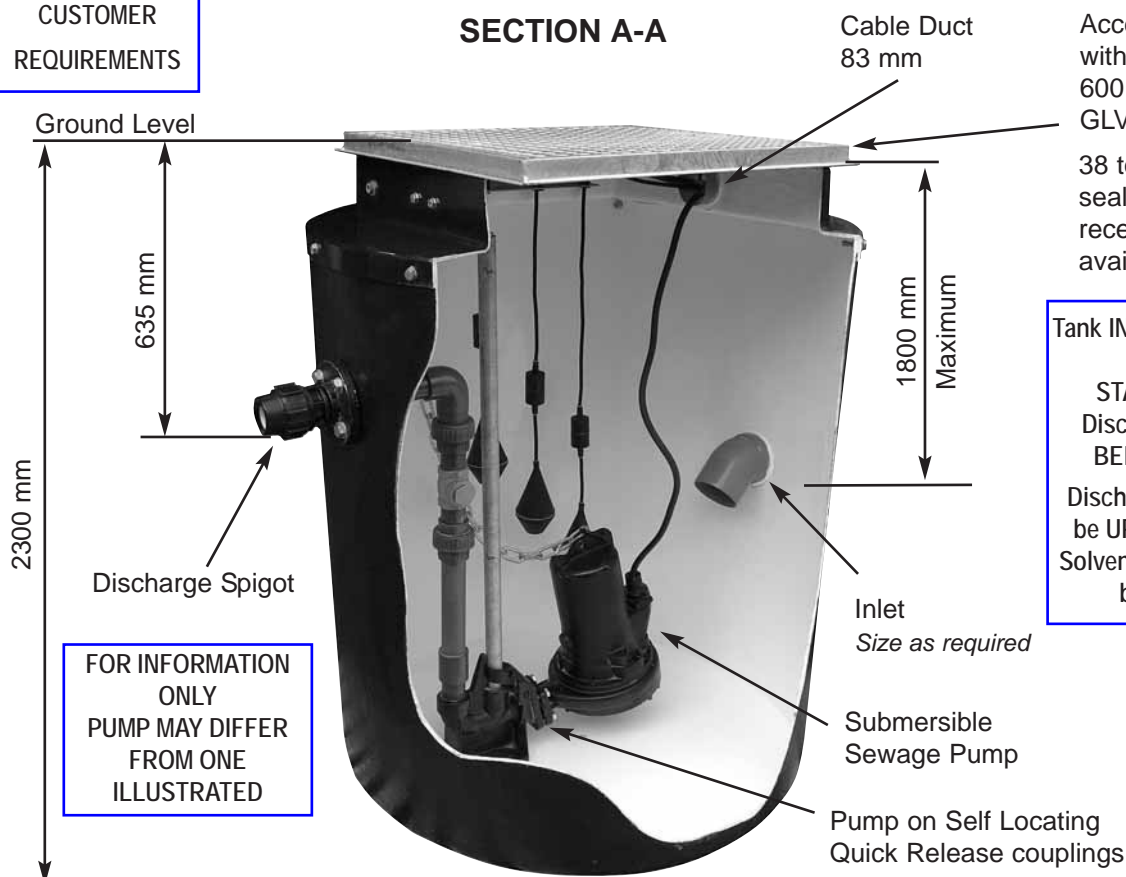
Due to a policy of continuous product improvement we reserve the right to alter specifications without notice.

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Tel: 0118 9821555 Fax: 0118 9821666  
E-mail: support@pumptechnology.co.uk  
Web Site: www.pumptechnology.co.uk

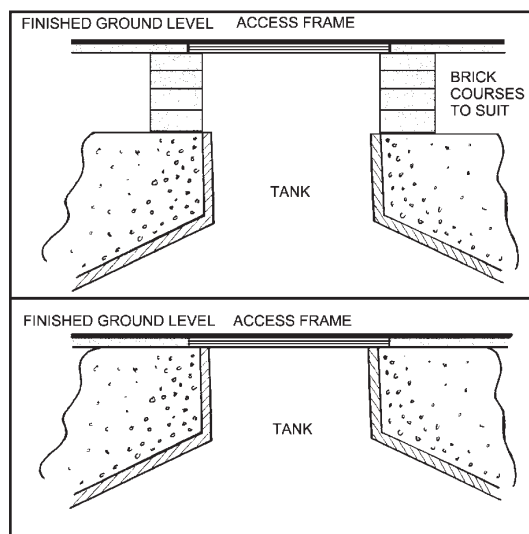
### PUMPMATIC 200 Packaged Sewage Pumping System

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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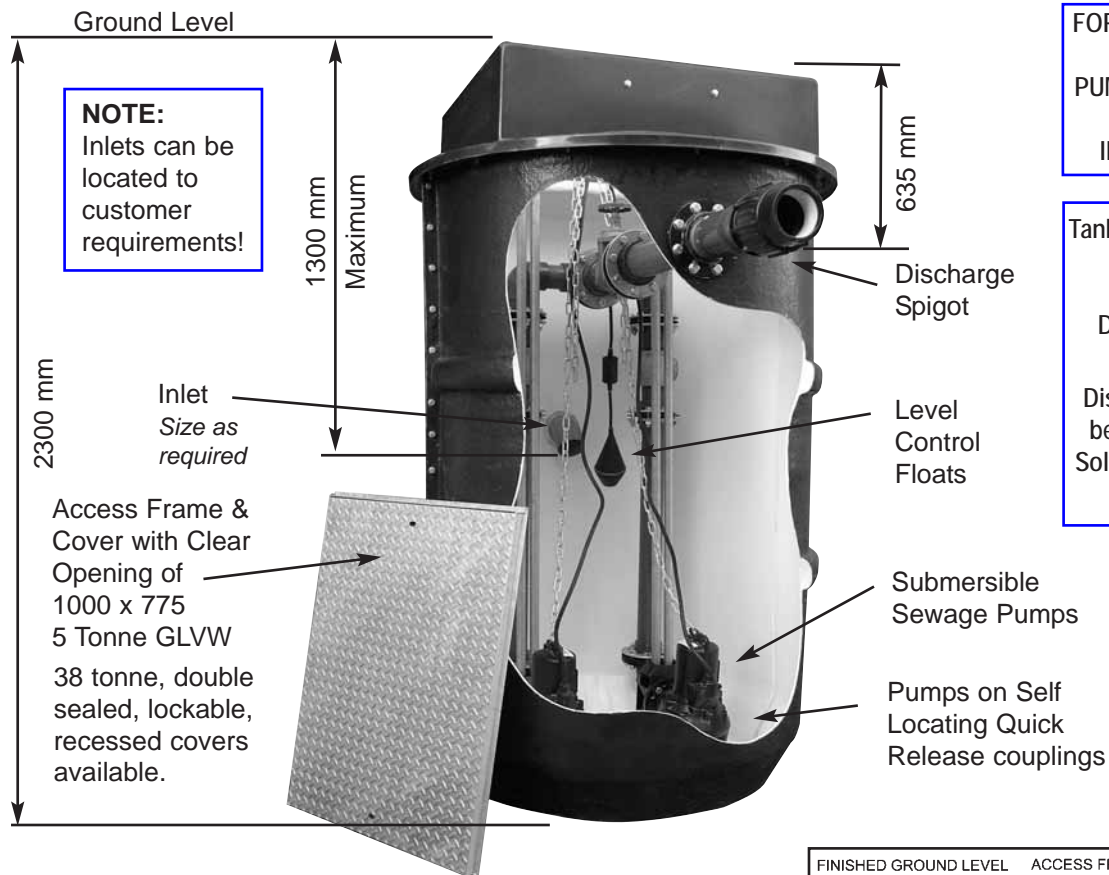
Tel: 0118 9821555 Fax: 0118 9821666

E-mail: support@pumptechnology.co.uk

Web Site: www.pumptechnology.co.uk

## PUMPMATIC 300 Packaged Sewage Pumping System

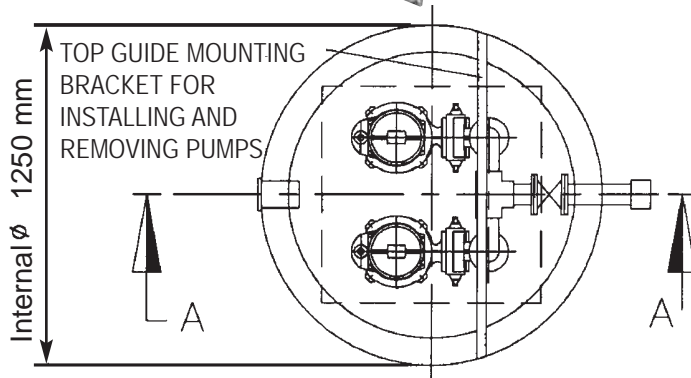
### SECTION A-A



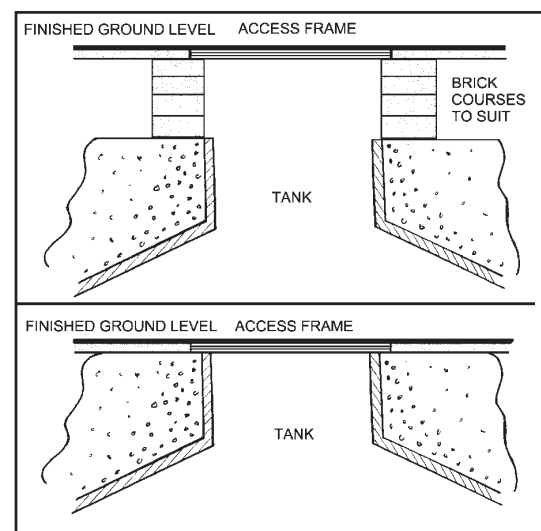
FOR INFORMATION ONLY  
PUMP MAY DIFFER FROM ONE ILLUSTRATED

Tank INVERT & DISCHARGE are set at a STANDARD HEIGHT  
Discuss any variations BEFORE ORDERING  
Discharge pipework must be UPVC Class 'C' or 'D'  
Solvent weld or MDPE pipe black as shown

PUMP SELECTED TO MEET CUSTOMER REQUIREMENTS



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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### CONTROL PANELS

Pump Technology Ltd can supply any control panel to meet the customers specification.

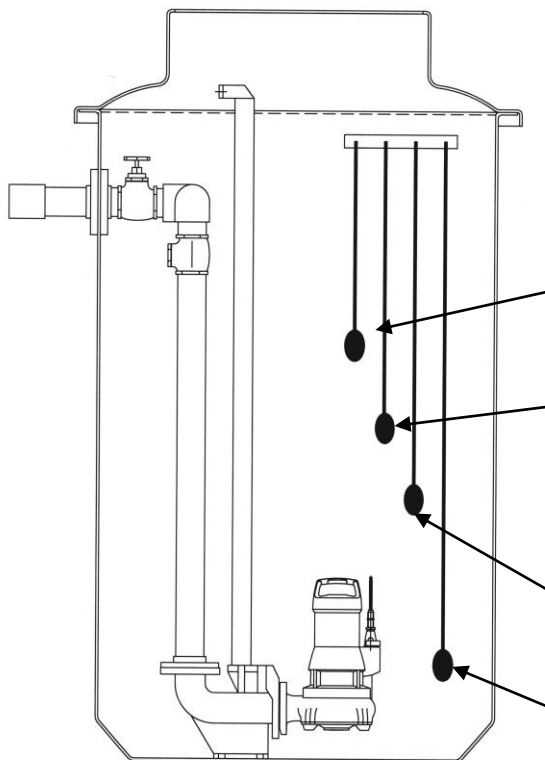
We can offer single to multiple pump controls, GSM or landline telemetry, ATEX rated, battery backup and hour run meters.

Reliable and cost-effective control system for the arduous and turbulent conditions encountered in COMMERCIAL 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



### EXAMPLE OF A DUAL PUMP CONTROL PANEL OPERATION



#### SYSTEM OPERATION

The system controls the level into the storage tank automatically via the non-mercury operated float switches.

**Assist Start Float** is set to the level at which the second pump is required to start.

**High Level Float** is set to the level at which the alarm is required to give warnings of potential flood conditions. This should be set at the level of the **INLET** to maximise the tank capacity.

**Duty Start Float** is set to the level at which the first pump is required to start.

**Stop Float** is set to the level at which the pumps are required to stop. This **must** be set above the volute of the pump.

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## 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. DRAINMINOR - DRAINMAJOR

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

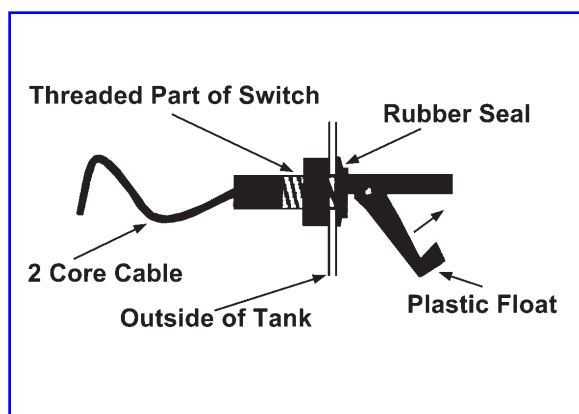
These systems have volt free contacts on both the single and dual pump versions. They are designed to be wired into the main Control Panel of Pump Technology Floor Mounted Waste Water and Sewage Pumping Systems.



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

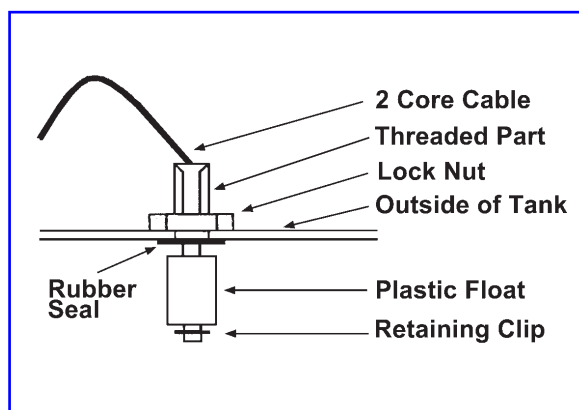
## PTL1A (SIDE MOUNTED FLOAT)

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.



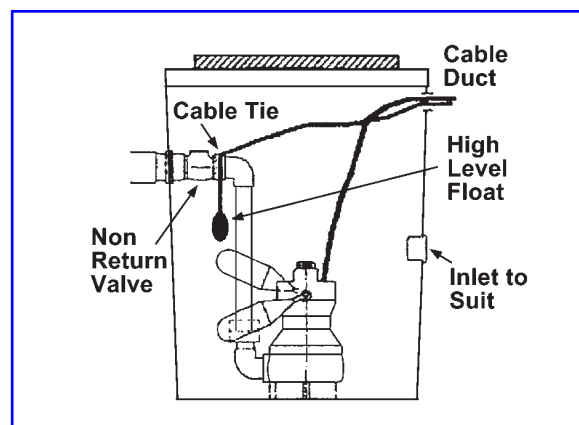
## PTL1B (TOP MOUNTED FLOAT)

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.



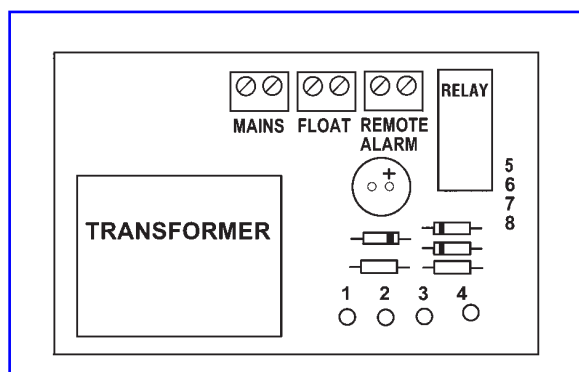
## PTL1C (NON MERCURY SWITCH FLOAT)

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.

## HAND PUMPS

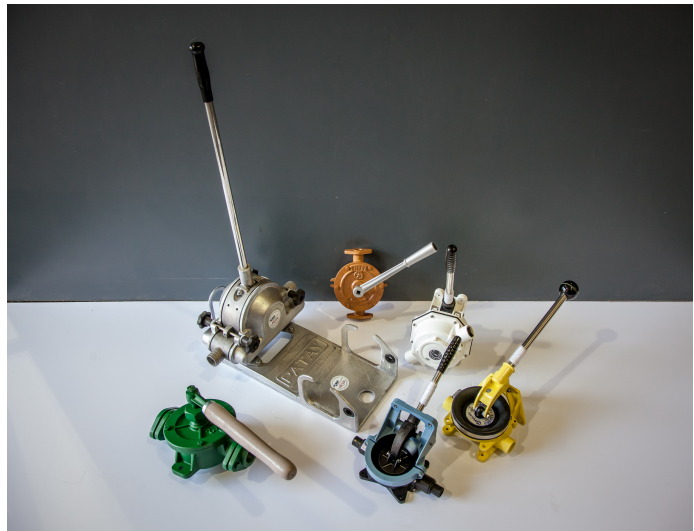
Our Hand Pump selection is for both water and diesel,  
 and a range of 12v and 24v low voltage submersible pumps / inline Pumps.  
 We're also specialists in pressure testing handpumps (25-100 Bar).

Hand Pump: Manual

- Rotary – Semi Rotary – Diaphragm
- Water
- Salt Water
- Barrel / Drum
- Diesel
- Chemicals
- Pressure Testing
- Site Pumps

Low Voltage Transfer Pumps (12v +240)

- Water
- Diesel (NOT Petrol)



## IN-LINE STRAINERS

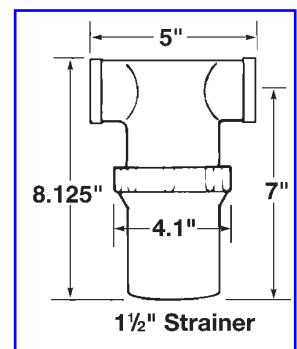
Suitable for DRAINMASTER, DRAINMAJOR  
 and DRAINING Waste Water Pumping  
 Systems with Cleaners' Sinks and  
 Hairdressers Hand basins.

*(Not suitable for Kitchen Sinks with grease)*

### SPECIFICATIONS

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.



### INSTALLATION

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



## CHARCOVENT & MICROVENT

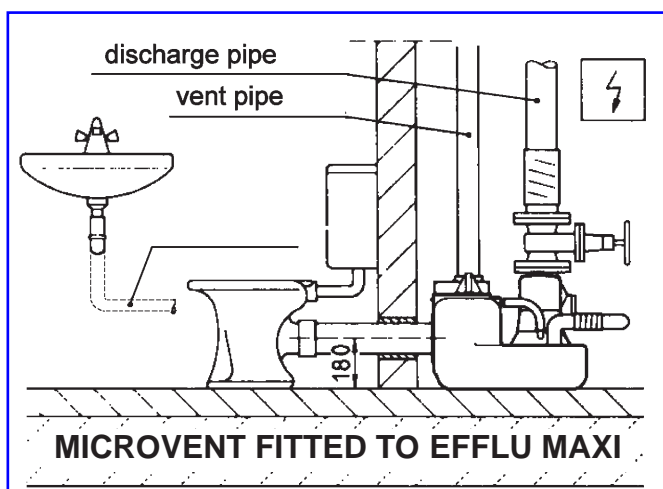
*The SOLUTION when it is not possible to "Vent to Air"*

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.

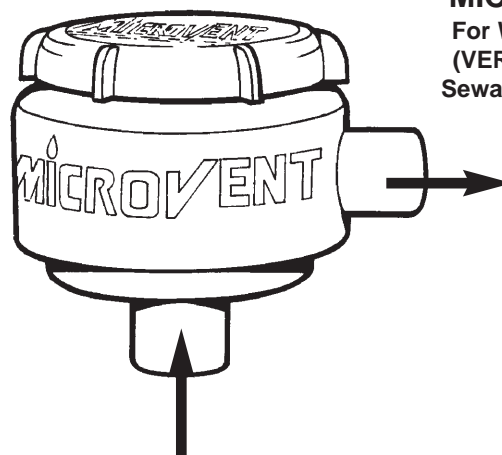
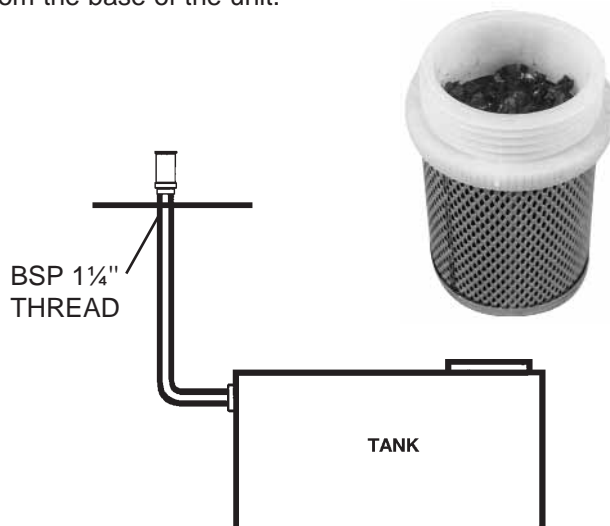
### NOTE:

**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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Web Site: www.pumptechnology.co.uk

## **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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Web Site: [www.pumptechnology.co.uk](http://www.pumptechnology.co.uk)

### **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

### **NO VOICEMAIL**

**Talk Directly to our Technical Experts!**

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

**Tel: 0118 9821555 Fax: 0118 9821666**

**E-mail: [support@pumptechnology.co.uk](mailto:support@pumptechnology.co.uk)**

**Web Site: [www.pumptechnology.co.uk](http://www.pumptechnology.co.uk)**

## 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.

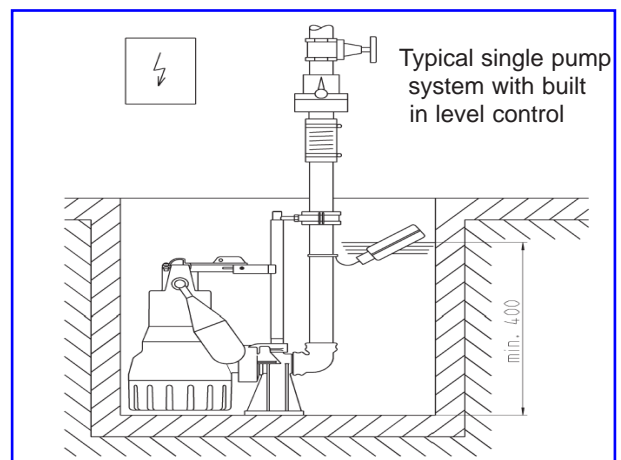
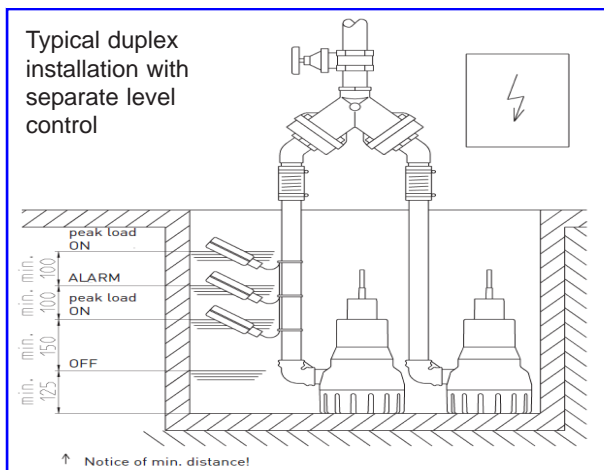
These high quality products are built with the essential parts to prolong life, requiring minimal supervision and maintenance.

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



## INSTALLATION

Many installation options are possible - for instance:-



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

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**E-mail: support@pumptechnology.co.uk**

**Web Site: www.pumptechnology.co.uk**



## **SUBMERSIBLE SEWAGE PUMPS**

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

We can provide the right solution for challenging pumping applications.

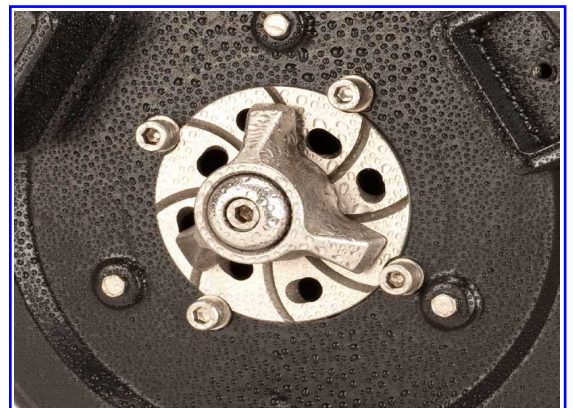
***Contact our Technical helpline for Full Specifications !***

## **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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**Web Site: [www.pumptechnology.co.uk](http://www.pumptechnology.co.uk)**

## **Whale® SHOWER DRAIN PUMPS**



### **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 Shower Drain systems provide 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 Shower Drain 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

## **INSTANT MATCH BLUETOOTH KIT**

The easy drainage solution for wet rooms in difficult locations



To minimise gulley suction noise the Whale Instant Match pump with Bluetooth Wireless Technology uses a digital signal sent from the Mira Advance Flex Extra shower to automatically adjust the pump speed in relation to the flow rate of the shower.

No set-up necessary - gives plug and play operation.

- No physical link required between Instant Match and Mira Advance Flex Extra Wireless
- Wireless control
- Shower automatically turns off in the event of power failure to the pump
- Quiet gulley
- Simple pairing of pump with shower

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**Web Site: [www.pumptechnology.co.uk](http://www.pumptechnology.co.uk)**

ENVIRONMENT  
FRIENDLY

# GREASE MANAGEMENT

## DRAIN DOSING



### DrainDoser

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

- Easy wall mounting
- Simple to maintain
- Battery operated

Our automatic dosing pump is the essential partner for your grease trap. It allows you to continuously and evenly dispense our biological dosing fluid (sold separately) into your trap over a 24/7 period meaning that your trap is always performing at its best!

**CALL US ON 0118 9821555 for assistance with all of your GREASE MANAGEMENT PROBLEMS**

### Systems available for:

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

**CAN BE USED IN CONJUNCTION WITH ANY OF OUR FLOOR MOUNTED PUMP UNITS**

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





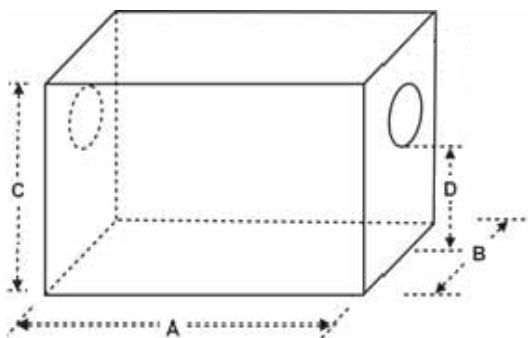
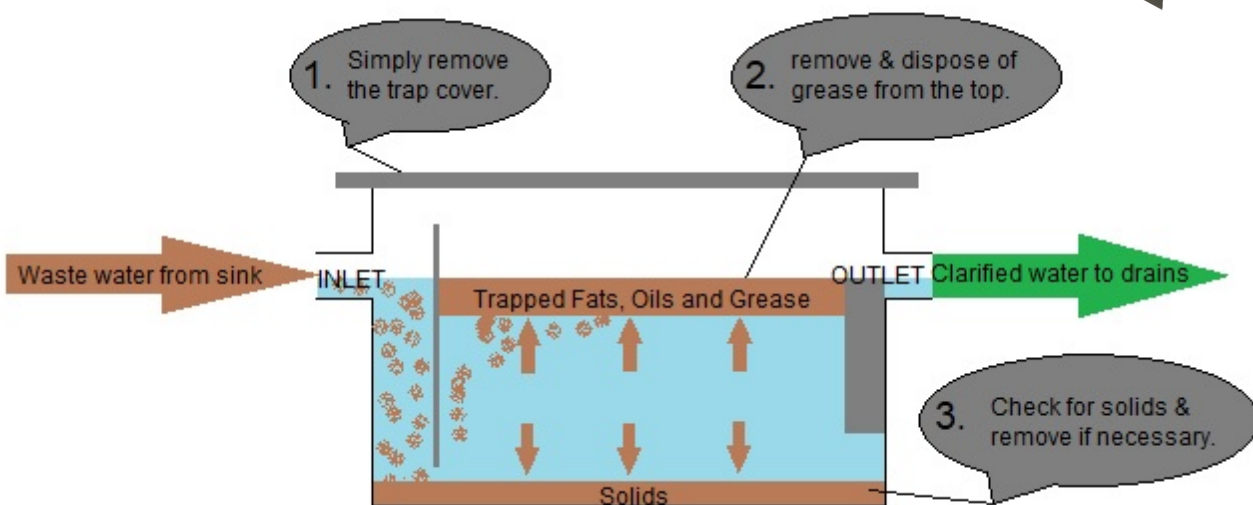
# GREASE MANAGEMENT

ENVIRONMENT  
FRIENDLY

## PTL GT GREASE SEPARATORS

### FEATURES

- Stainless steel epoxy coated grease traps
- Constructed using top grade 304 stainless steel
- Can be used both internally and externally
- Above ground and below ground



	Inlet/Outlet ø	A	B	C	D	Application
PTL4KG	50mm	418	263	250	190	1 - 2 Sinks
PTL7KG	50mm	460	338	310	205	2 - 3 Sinks
PTL14KG	50mm	570	400	350	262	3 + Sinks

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

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

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 **SANIFLO**

---

*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.**

---

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Web Site: [www.pumptechnology.co.uk](http://www.pumptechnology.co.uk)



## 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](http://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.



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