PuraTANK

Installation & Maintenance Instructions

For rainwater harvesting systems Including:

- Garden Economy
- Garden Premium
- Direct Pressure

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Atlantis

Introduction

Receipt of goods

The following information is provided to assist the installation process:

1. ⚠
   - Deliveries to site will be organised in conjunction with Site Agents to ensure that arrangements have been made for their safe receipt; Site Agents are advised to ensure that all goods are thoroughly checked on receipt against delivery documentation as items later reported as missing or damaged cannot be replaced and will need to be re-ordered.

2. ⚠
   - It should particularly be noted that the condition of the rainwater harvesting systems becomes the responsibility of the Site Agent once unloaded from the delivery vehicle.

3. ⚠ Health & safety

All Health & Safety precautions applying to such works are to be implemented, with risk assessments and method statements being prepared.

4. Installation Overview

If supervising the installation of a RWH system for the first time, it should be planned to undertake the work in the following stages:

Review general operating principles	**3**
Review components of the system to be installed:	
Parts supplied (schematic drawings)	5
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5. System Components

Understanding the operating principles of RWH systems is essential to ensure their successful installation; the diagram below shows the typical schematic layout of a rainwater harvesting system which supplies water under pump pressure direct from the water storage tank, usually referred to as the "direct pressure" system:



PLEASE NOTE:

1. The main storage tanks need to be able to overflow to a soak-away or storm-drain which must be adequate to cope with the rate of flow to avoid contaminated water back-flowing into the storage tank
2. Mains water supply to provide top-up, when needed during long dry spells, must be via a Class-AA tun-dish air-gap in a direct-pressure system
3. Supply to services must be via dedicated pipe-work; which must not be cross-connected to the mains pipe-work

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Working principles

Working principles

6. Domestic systems must use only the property roof for collecting the rainwater which is then stored in an underground tank to provide non-wholesome water for toilet flushing, clothes washing machines, and the outside tap.

7. Collection from a conventional roof is recommended, avoiding "green" and sedum roofs. The roof water is channelled through the normal guttering and down-pipe arrangements, before being brought into a single drainage pipe underground which feeds into the storage tank.

8. In accordance with the requirements of BS 8515 & BS EN 16941-1:2018, the water is filtered before entering the storage tank to remove solid particles, usually using a stainless-steel filter installed in the neck of the tank. This filter requires cleaning every 3 months to maintain its efficiency. Failure to do so will possibly lead to progressive clogging of the filter, causing incoming water to be lost direct to the overflow, rather than entering the tank.

9. Having passed through the filter, the water is introduced into the tank via a calmed inlet designed to smoothly introduce the fresh and highly oxygenated rainwater into the bottom of the tank. This helps to avoid stagnation at the lowest level and assists maintenance of the quality of the water stored in the tank.

10. The stored water is then supplied to the non-wholesome services on-demand; this demand is sensed, by either a Control Unit or the pump itself, which activates the durable electric pump in the tank to meet the demand. When the demand for the water supply ends, this too is sensed and the pump stops. Under this "direct pressure" arrangement, the pump is effectively linked direct to the service concerned

11. In periods of prolonged rain, the storage tank will become full and overflow through the connection provided to the surface water management arrangements for the project (ie soak-away, storm drain or attenuation system) and can be protected from back-filling by a back-flow prevention valve if connected to a sewer – for further info, speak to our sales team. As the water storage tank may already be full when a heavy downpour is experienced, the whole of the tank volume cannot be taken into account when making the attenuation calculations for the project.

12. Conversely, in dry spells the tank contents may be in danger of becoming exhausted and need to be supplemented by mains water to ensure continuity of supply to the services. This too is sensed by the Control Unit which then activates a solenoid valve to allow mains water to enter the tank via a Class-AA air-gap; this prevents direct contact between the wholesome and non-wholesome pipe-work/water. Only a limited amount of water is introduced in this way, so leaving the maximum possible capacity for the next rainfall.

Irrigation-only systems

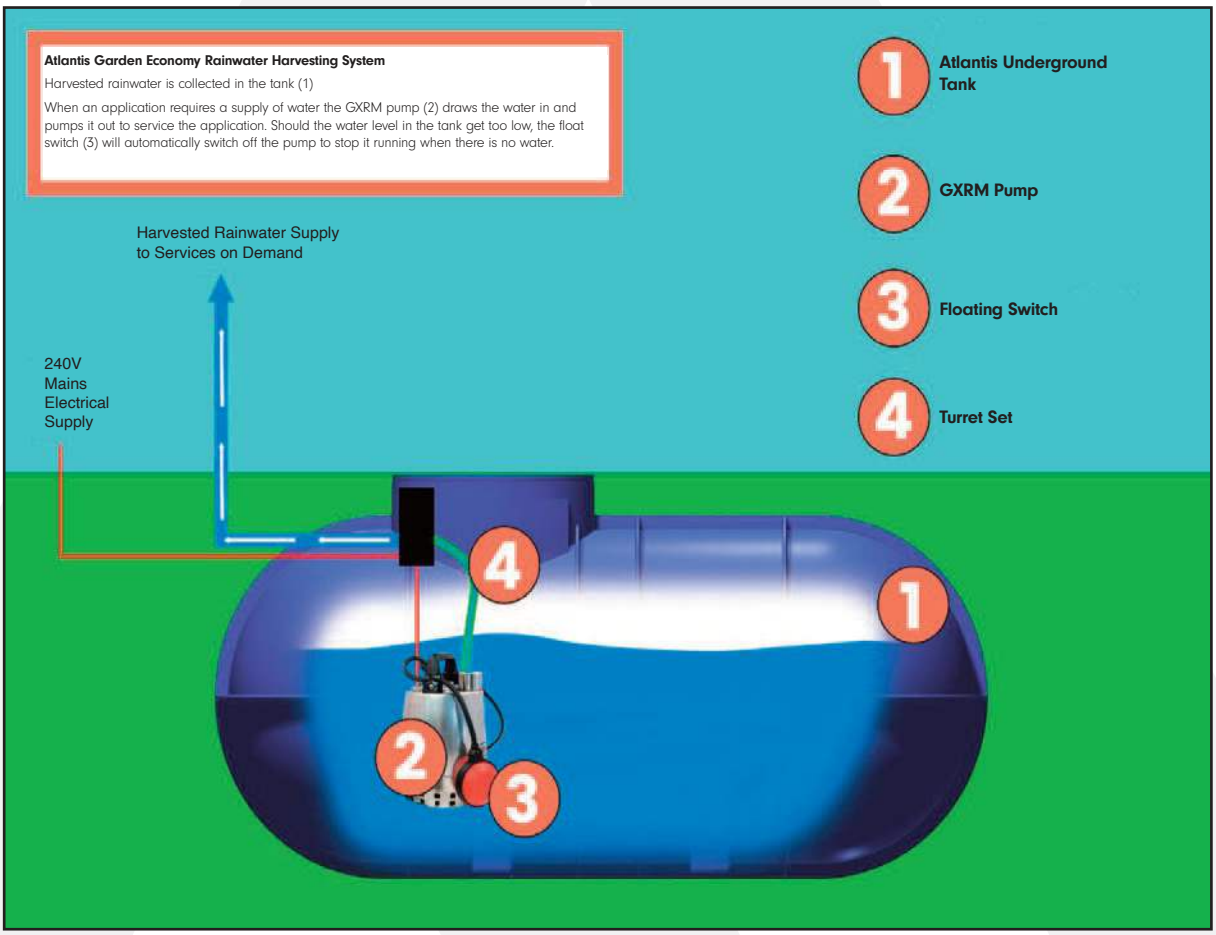
13. Direct pressure systems are also used when systems are purchased solely for garden-irrigation purposes, manufactured and supplied by Puratank.

14. These operate on the same principles noted above, but are not fitted with a mains-water backup as this would make them subject to hose-pipe bans. Further information is provided below.

Parts & components & how they relate

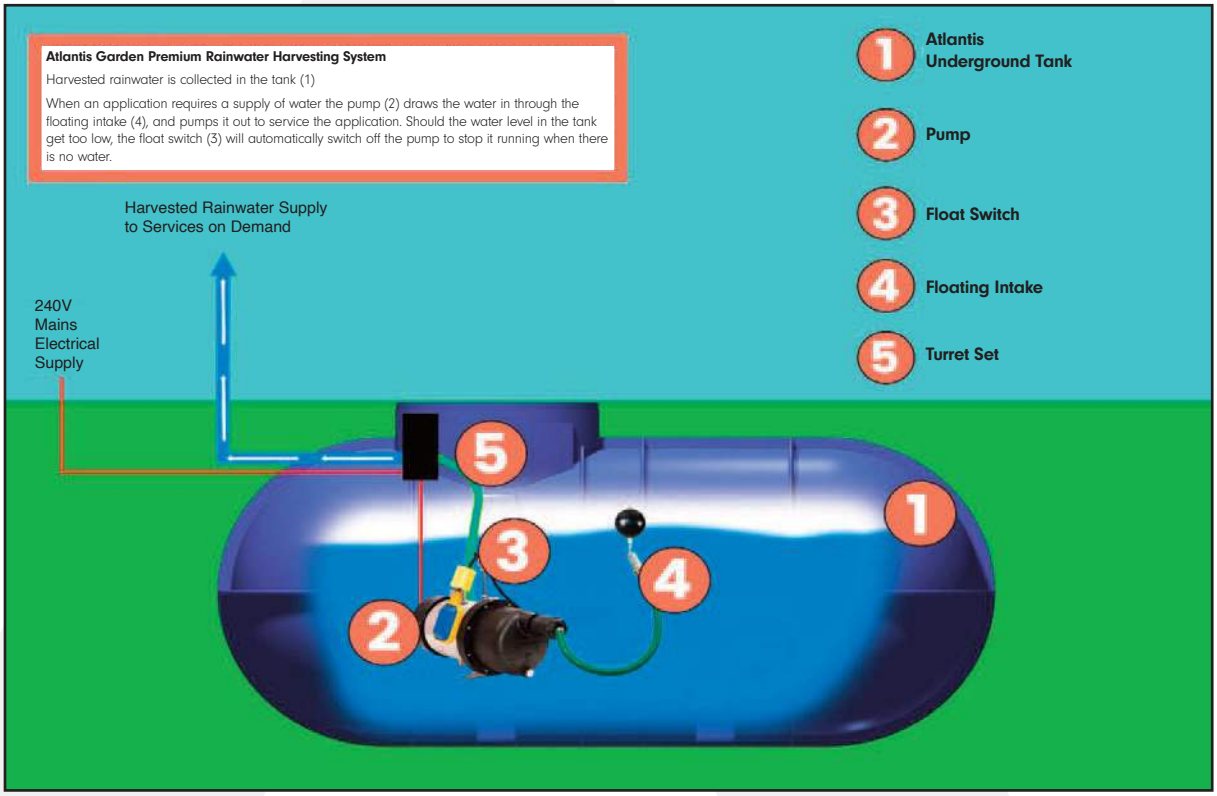
15. Schematic layouts of the Puratank systems are laid out below for the Garden Eco, Garden Premium and the Home & Garden Direct Pressure systems. Each diagram can also be used to check full delivery of all system components:

Garden Eco

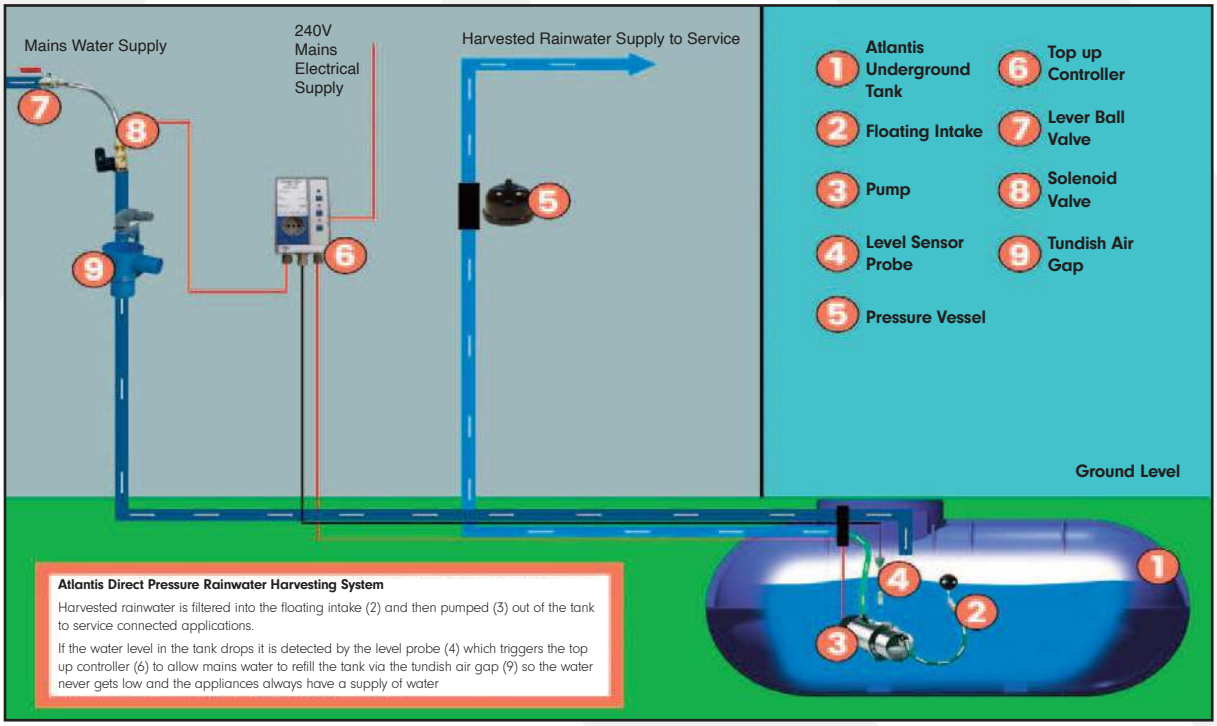


System Components

Garden Premium



Home & Garden Direct Pressure



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Pumps

16. There are 3 types of pumps supplied with the Puratank systems. These are the Calpeda GXR pump for the Garden Eco, the Steelpumps X-AJEP pump for the Garden Premium and the Steelpumps X-AJEB pump for the Home & Garden Direct Pressure systems. These are all submersible pumps. The specifications of each pump are as below:

GXR pump for Garden Economy

GXR, GXV

Submersible Pumps in stainless steel

calpeda



Construction

Single-impeller submersible pumps in chrome-nickel stainless steel, with vertical delivery port.
GXR: with open Impeller.
GXV: with free-flow (vortex) impeller.
Motor cooled by the pumped water passing between the motor jacket and the external jacket.
Double shaft seal with oil chamber.

Applications

GXR: - For clean water containing solids up to 10 mm grain size.
- For draining rooms or emptying tanks.
- Extraction of water from ponds, streams or pits and for rainwater collection.
- For irrigation purposes.

GXV: - For clean or slightly dirty water, containing solids up to 25 mm grain size.
- Particularly suitable for liquids with a high solid content.

For outdoor use a power supply cable of not less than 10 m should be used in accordance with: EN 60 335-2-41.

Operating conditions

Liquid temperature up to 50° C.
Maximum immersion depth: 5 m.
Minimum water level with float: GXR = 70 mm, GXV = 130 mm.
Minimum water level manual operation: XR = 15 mm, GXV = 30 mm.
Continuous duty.

Motor

2-pole induction motor, 50 Hz (n = 2900 rpm).
GXR, GXV: three-phase 230 V" 10%;
three-phase 400 V " 10%;
GXRM, GXVM: single-phase 230 V,
with float switch and thermal protector.
Incorporated capacitor.
Insulation class F.
Protection IP XS (for continuous immersion)
Double impregnation humidity-proof dry winding.
Constructed in accordance with: EN 60034-1;
EN 60335-1, EN 60335-2-41 .

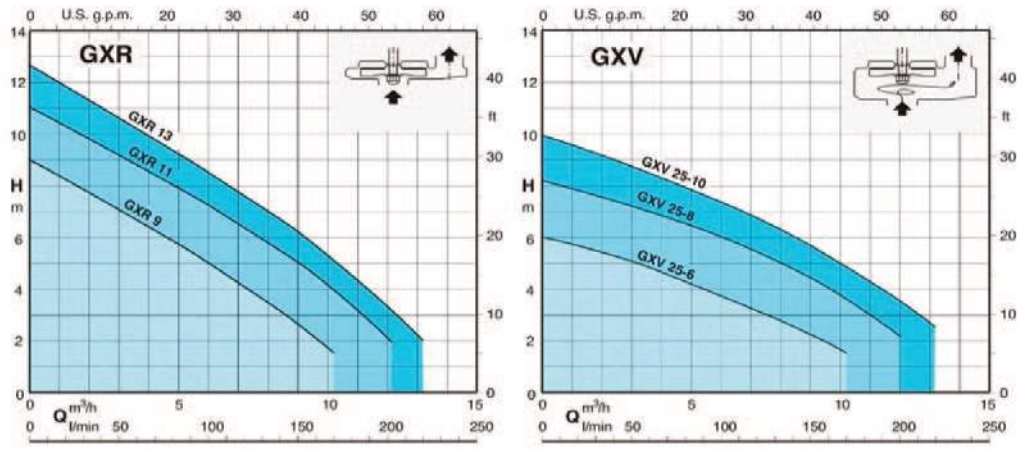
Materials

Component	Material
Pump casing Strainer Impeller Motor jacket Pump jacket	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)
Handle	Polypropylene
Shaft	Chrome-nickel steel 1.4305 EN 10088 (AISI 303)
Mechanical seal	Ceramic alumina/Carbon/NBAR
Seal lubrication oil	Oil for food/pharmaceutical machinery

Other features on request

- Other voltages - Frequency 60 Hz - Other mechanical seal. - Cable length 10 m.
- Vertical magnetic float switch - Motor suitable for operation with frequency converter.

Characteristic curves n ≈ 2900 rpm



System Components

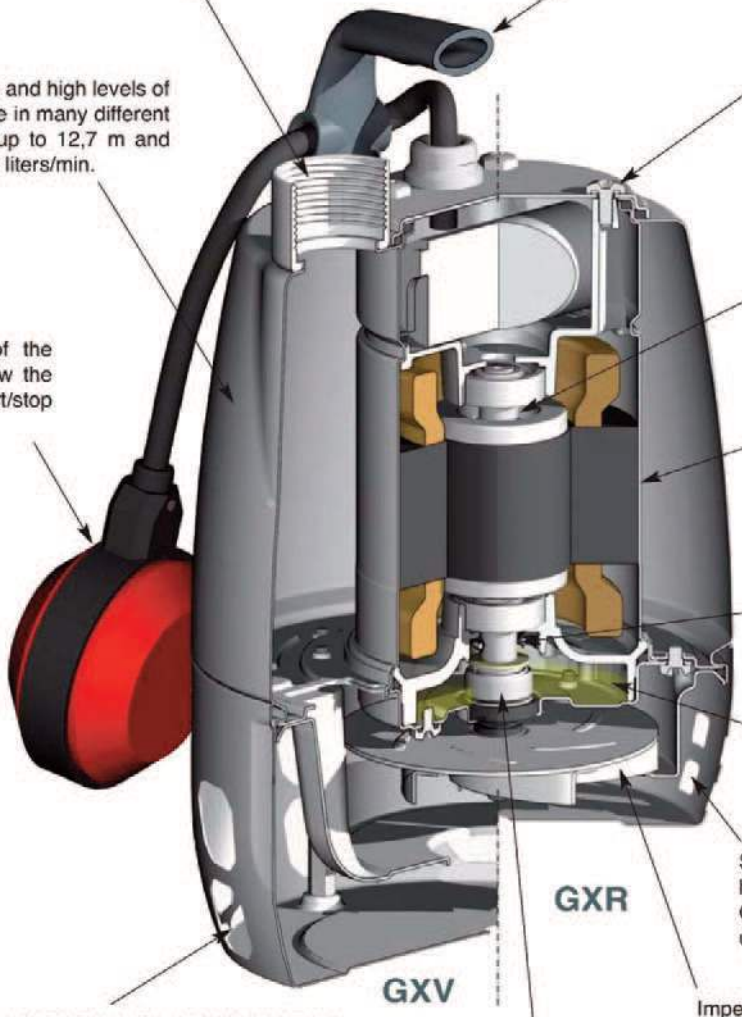
GXR, GXV

Submersible Pumps in stainless steel

calpeda

Features

PATENTED



G 1 1/4 vertical, upward delivery port for installation in small pits, without the need for an elbow on the pump.

Handle in polypropylene.

Minimum dimension and high levels of performance, for use in many different applications, head up to 12,7 m and flow rates up to 220 liters/min.

Easy inspection of the capacitor area.

Shaft in chrome-nickel stainless steel.

Easy adjustment of the float switch: to allow the adjustement of start/stop pump levels.

Motor cooled by the pumped water passing between the motor jacket and the external jacket.

Ceramic stainless steel shaft sleeve.

Oil chamber.

Suction strainer with a double row of holes, for extra safety against clogging.
GXR: it allows the passage of solids up to 10 mm.

Impeller in chrome-nickel stainless steel.

Suction strainer with a double row of holes, for extra safety against clogging.
GXV: it allows the passage of solids up to 25 mm.

The double shaft seal with oil chamber separates the motor from the water and provides further protection against accidental operation when dry.

X-AJE80P pump for Garden Premium

STEELPUMPS
EVOLUTION

X-AJE/JE P Series

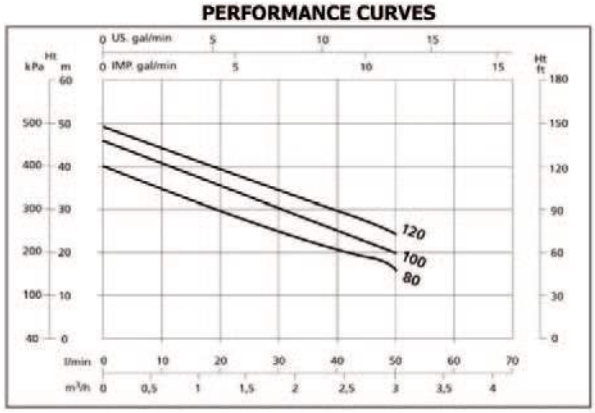


Self priming centrifugal jet pump with or without electronic pressure control, single or 3 phase.

PLUS
UP/Down technology for submerged, surface or underground installation.
Protection rating IP 68.
Automatic version includes pressure control, anti-blocking system and dry run protection with automatic restart.

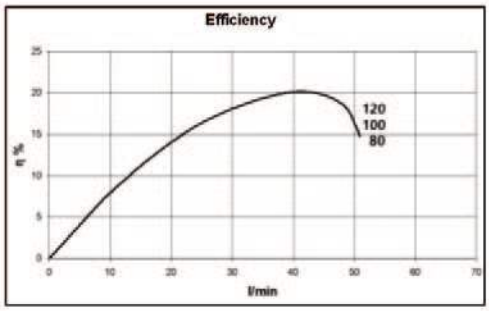
MATERIALS
Motor body: Aisi 304
Pump body: Polypropylene
Rotor shaft: Aisi 420
Supporting flanges: Polypropylene
Diffuser, Impeller and Venturi Jet: Noryl
Rear cap: Polypropylene
Basis: Aisi 304
Mechanical seal: Silicon carbide
Mechanical seal lubricated by a special oil chamber
A2 Stainless steel bolts
NBR70 O-ring
H07RN-F Electric cable 10m length with 3-Pin UK plug
Tropicalized circuit board in compliance with the RoHS directive

PERFORMANCE CURVES



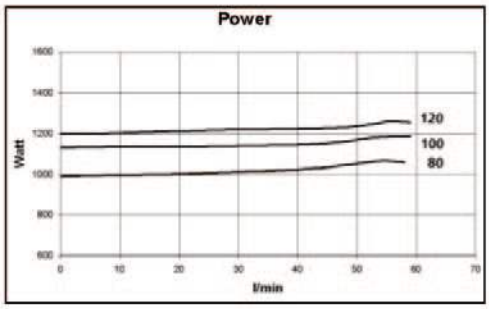
ELECTRICAL FEATURES

Code	P2 Nom. KW	P2 Nom. HP	3~ 50Hz Amps 230V	3~ 50Hz Amps 400V	1~ 50Hz Amps 230V	Cap. µF
X-AJE/JE 80P	0.6	0.8	2.2	1.5	4.5	16
X-AJE/JE 100P	0.75	1	3	1.9	5.3	16
X-AJE/JE 120P	0.9	1.2	3.6	2.3	5.9	18
Class F insulated motor					S1 Motor Service Factor	



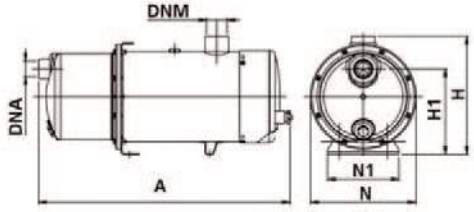
HYDRAULIC FEATURES

Code	Q (l/m) FLOW 0	10	20	30	40	50	60
	H HYDRAULIC HEAD (m)						
X-AJE/JE 80P	40	33	30	24	20	15	
X-AJE/JE 100P	47	40	35	30	25	20	5
X-AJE/JE 120P	51	45	40	34	30	24	8



CHARACTERISTICS AND INSTALLATION

Drained Liquid	Clean Water
Liquid temperature range	+2°C to +37°C
Air temperature	max +45°C
Maximum depth	5m
Calibrating pressure rate switch	1.5 bar



DIMENSIONS AND WEIGHTS

Code	Measurement (mm unless indicated) A	N	H	H1	N1	DMN	DNA	Weight Kg
X-AJE/JE 80P	447	200	226	163	136	1"¼	1"	11.5
X-AJE/JE 100P	447	200	226	163	136	1"¼	1"	12
X-AJE/JE 120P	447	200	226	163	136	1"¼	1"	13

System Components

X – AJE80B Pump for Home & Garden Direct Pressure system

STEELPUMPS
EVOLUTION
X-AJE/JE B Series

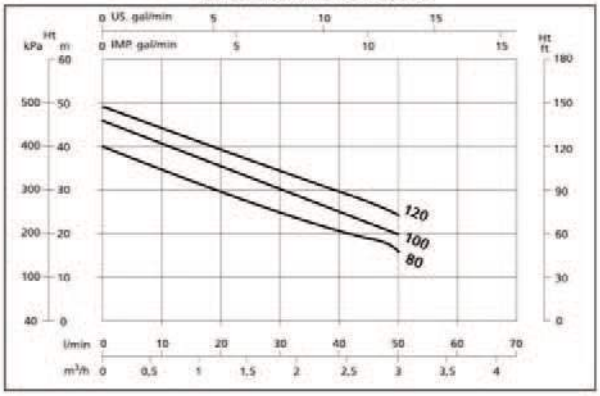
Self priming centrifugal jet pump with or without electronic pressure control, single or 3 phase.



PLUS
UP/Down technology for submerged, surface or underground installation.
Protection rating IP 68.
Automatic version includes pressure control, anti-blocking system and dry run protection with automatic restart.

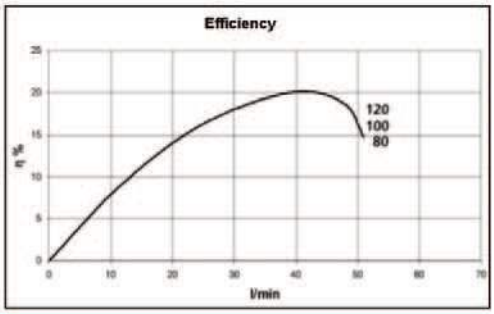
MATERIALS
Motor body: Aisi 304
Pump body: Aisi 304
Rotor Shaft: Aisi 420
Supporting flanges: Polypropylene
Diffuser, Impeller and Venturi Jet: Noryl
Rear cap: Polypropylene
Basis: Aisi 304
Mechanical seal: Silicon Carbide
Mechanical seal lubricated by a special oil chamber
A2 Stainless steel bolts
NBR70 O-ring
H07RN-F Electric cable 10m length with 3-Pin UK plug
Tropicalized circuit board in compliance with the RoHS directive

PERFORMANCE CURVES



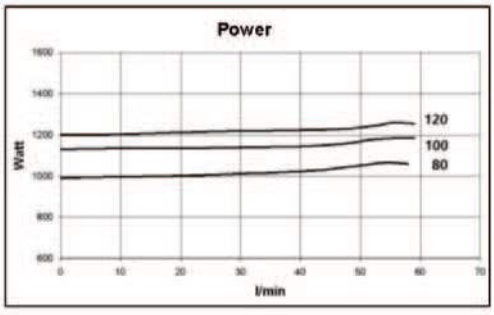
ELECTRICAL FEATURES

Code	P2 Nom.		3~ 50Hz Amps		1~ 50Hz Amps	Cap.
	KW	HP	230V	400V	230V	µF
X-AJE/JE 80B	0.6	0.8	2.2	1.5	4.5	16
X-AJE/JE 100B	0.75	1	3	1.9	5.3	16
X-AJE/JE 120B	0.9	1.2	3.6	2.3	6.3	18
Class F insulated motor					S1 Motor Service Factor	



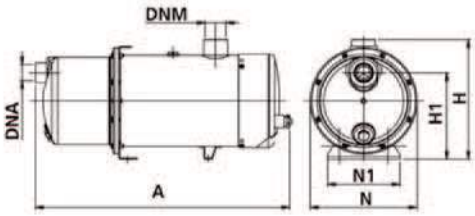
HYDRAULIC FEATURES

Code	Q (l/m) FLOW						
	0	10	20	30	40	50	60
	H HYDRAULIC HEAD (m)						
X-AJE/JE 80B	40	33	30	24	20	15	
X-AJE/JE 100B	47	40	35	30	25	20	5
X-AJE/JE 120B	49	43	38	32	30	24	8



CHARACTERISTICS AND INSTALLATION

Drained Liquid	Clean Water
Liquid temperature range	+2°C to +37°C
Air temperature	max +45°C
Maximum depth	5m
Calibrating pressure rate switch	1.5 bar



DIMENSIONS AND WEIGHTS

Code	Measurement (mm unless indicated)							Weight
	A	N	H	H1	N1	DMN	DNA	Kg
X-AJE/JE 80B	447	200	226	163	136	1"¼	1"	11.5
X-AJE/JE 100B	447	200	226	163	136	1"¼	1"	12
X-AJE/JE 120B	447	200	226	163	136	1"¼	1"	13

System Components

Filters

17. There are 3 main different types of filter depending upon your requirements and order. The most commonly used in Puratank systems is the Patronen filter. See the different types below:

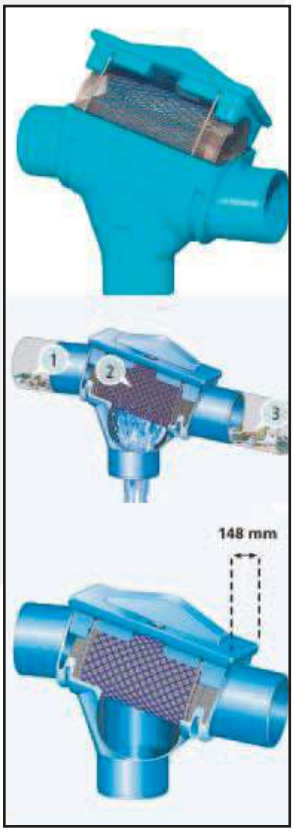


Compact Filter

The Compact filter is particularly useful when there is a requirement for minimum/zero invert level drop between the inlet and the outlet.

The key technical characteristics of the filter are:

- Connection capacity for roof areas up to 150 m²
- All connections DN 100 (110mm OD).
- No height difference between inlet and outlet.
- Mesh size of filter cartridge 0.7 x 1.7 mm.



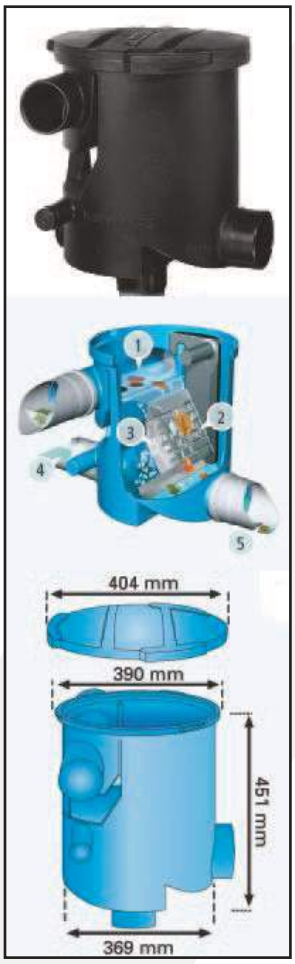
Patronen Filter

The Patronen Filter is one of the most popular in the Puratank range, for flow rates associated with larger roofs, or where an invert drop across the filter is desirable . The PF filter works on similar principles to the Compact Filter.

The key technical characteristics of the filter are:

- Connection capacity after DIN 1986 for roof are as up to 200 m².
- All connections DN 100.
- Small height difference of 66 mm between rainwater inlet and waste water outlet.
- Mesh size of filter cartridge 0.7 x 1.7 mm.

System Components



VF-1 Filter

Completing the range of filters most likely to be used on domestic scale projects, the VF-1 filter would be most likely to be specified to complement the larger tanks in the Puratank range.

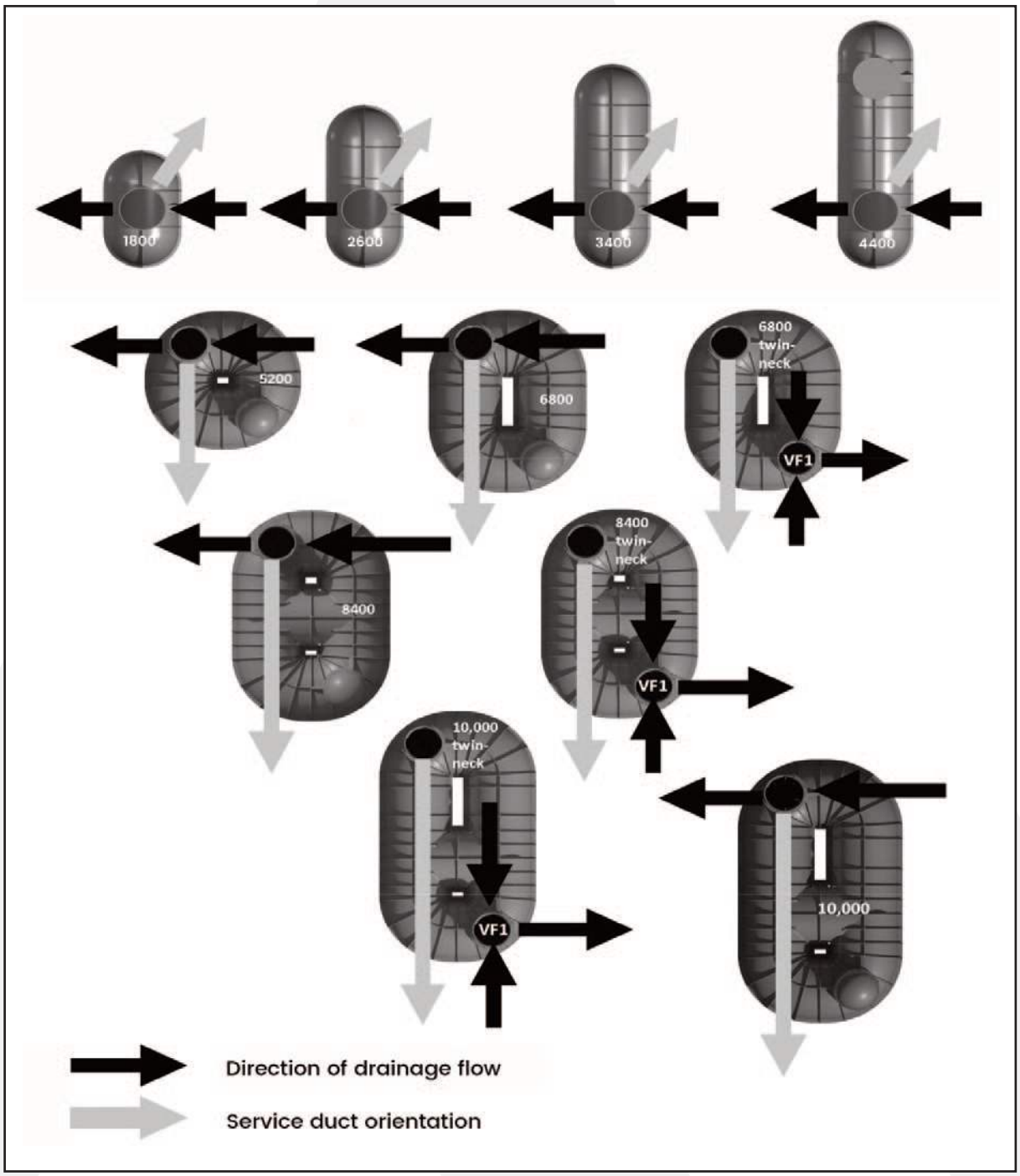
The key technical characteristics of the VF-1 filter are:

- Suitable for connection to roof areas up to 500m².
- Height difference between inlet and outlet 300 mm.
- Suitable in tank installation as shown below
- Or can be provided with its own neck for installation pre storage tank


In-tank Installation


Separate neck for pre-tank installations

Puratank standard connection orientations



PLEASE NOTE:

1. Service-ducts need to be directly aligned with controls location
2. On direct-pressure systems, service-ducts must drain towards tank
3. Invert-drops across filters are CF-zero; PF-66mm; VF1-300mm

Installing The Other Components

Overview

18. **The services to be supplied by the rainwater harvesting system (usually the toilets, the clothes washing machine and the outside tap) are to be fed by pipe-work that is independent of the mains water system, with no interconnections between the two except via the air-gaps provided for top-up purposes. Also, "Fluidmaster" valves are to be fitted to all cisterns.**

19. The pipe-work conveying rainwater inside a building should ideally be plastic and be installed and tested for air-tightness at the 1st-fix plumbing stage. Outside the building, black High Performance Polyethylene (HPP) pipe-work marked with a green stripes along its length must be used in accordance with Annex-C to BS-8515 & BS EN 16941-1:2018.

20. Each system includes relevant signage and pipe-marking (where applicable) which must be used appropriately throughout the system, per the examples below:

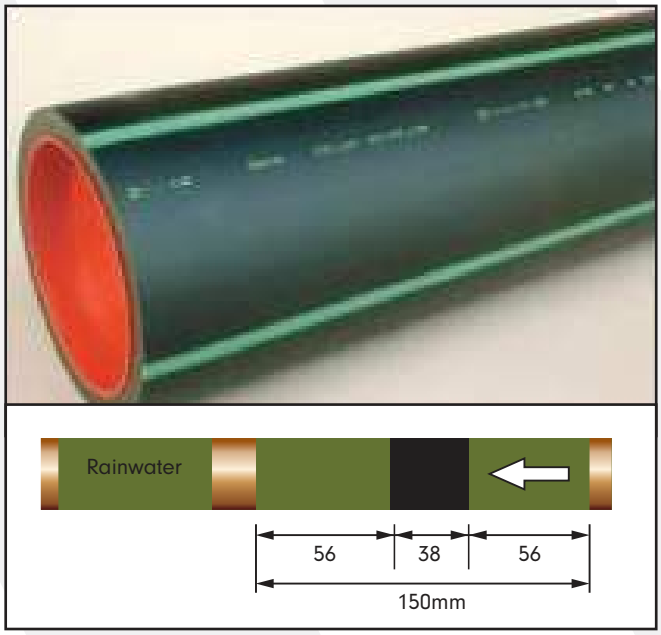




Labelling of pipes

Premarked pipe is available with green stripes and the warning printed on it.

Pipes should be marked at intervals at not more than 0.5m with labels which are adhesive or mechanically tooled. The information on the label is as shown.



SALES LINE: 0330 999 1100

Installing The Other Components

21. Other 1st fix tasks include making a 10-amp fused spur electrical and mains water supply available for connection when the remainder of the components are installed.

22. The 2nd fix work brings the system to a position where it is fully operational, and commissioned, ready to be handed-over.

23. The integrity of the services supply-side pipe-work is to be air-pressure tested, and all associated fixtures and fittings properly installed, before power is applied to the system.

The Three Main Systems

Garden Economy

The picture below shows the main parts supplied with this system kit. Some of these parts may already be pre-fitted to your tank. This picture can be used to identify and check the availability of all the parts on delivery:



SALES LINE: 0330 999 1100

Installation sequence for the Garden Economy system

24. **See parts descriptions below:**

1. The GXRM is a stainless steel submersible water pump c/w integral float switch to protect from dry running. This is an automatic on/off pressure sensing pump supplied separately and is lowered into the tank after installation. It is supplied with a long electrical connection cable and a length of rope is supplied to tie to the pump for ease of raising and lowering the pump for maintenance too. The pump has an integral strainer

2. The Rodent Guard is a very important feature preventing any unwanted rodents from entering the tank via the overflow. It is pre-fitted as standard and is located on the outlet part of the filter

3. The Patronen Filter – in addition to the details above, this is a self cleaning filter although regular inspection is recommended. This is pre-fitted to the tank prior to delivery

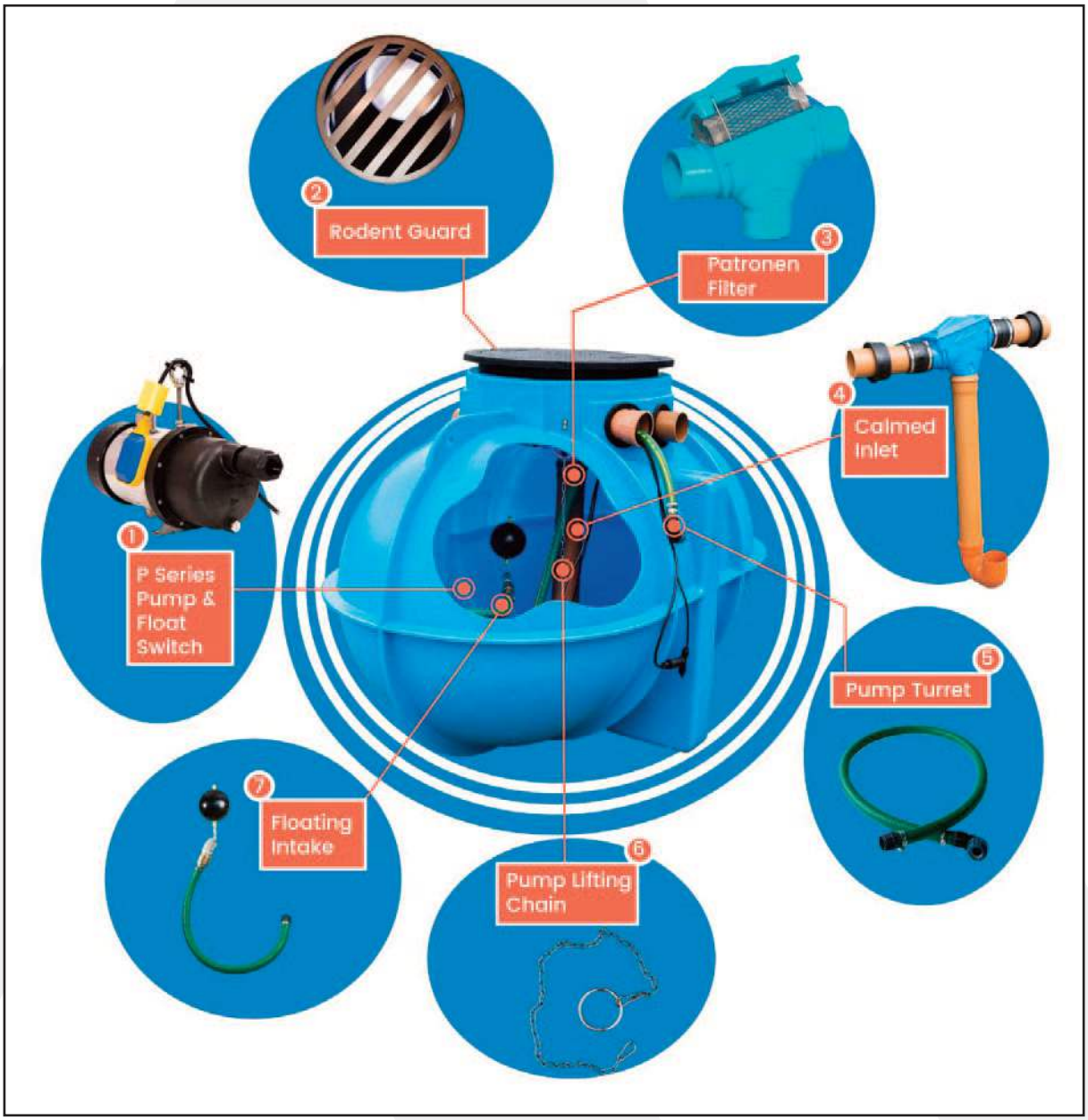
4. The Pump Turret is a flexible plastic/rubber connection supplied separately a and is fitted to the pump before it is lowered into the tank. The top end (at neck height) can either be used to connect to an underground pipe or be fitted with a hose connector for simple garden use

The lid is shown here but is an optional extra.

The Three Main Systems

Garden Premium

The picture below shows the main parts supplied with this system kit. Some of these parts may already be pre-fitted to your tank. This picture can be used to identify and check the availability of all the parts on delivery:



Installation sequence for the Garden Premium system

25. **See parts descriptions below:**

1. The Steelpumps X – AJE80P is a stainless steel submersible water pump c/w integral float switch to protect from dry running. This is an automatic pressure sensing pump supplied separately and is lowered into the tank base via a stainless steel chain (provided) for ease of raising and lowering during routine maintenance. See above pump spec for further details

2. The Rodent Guard is a very important feature preventing any unwanted rodents from entering the tank via the overflow. It is pre-fitted as standard and is located on the outlet part of the filter

3. The Patronen Filter – in addition to the details above, this is a self cleaning filter although regular inspection is recommended. This is pre-fitted to the tank prior to delivery

4. The calmed inlet is supplied as pre-fitted. This removes the kinetic energy from the incoming water reducing any stirring up effect. It also introduces fresh and highly oxygenated water into the bottom of the tank thereby reducing stagnation and ensuring water quality is kept high

5. Same as the Garden Eco system

6. This is the stainless steel lifting chain which is supplied separately and is fitted to the pump before lowering into the tank. The handle part hooks onto a pre-fitted stainless steel hook on the inside of the tank neck

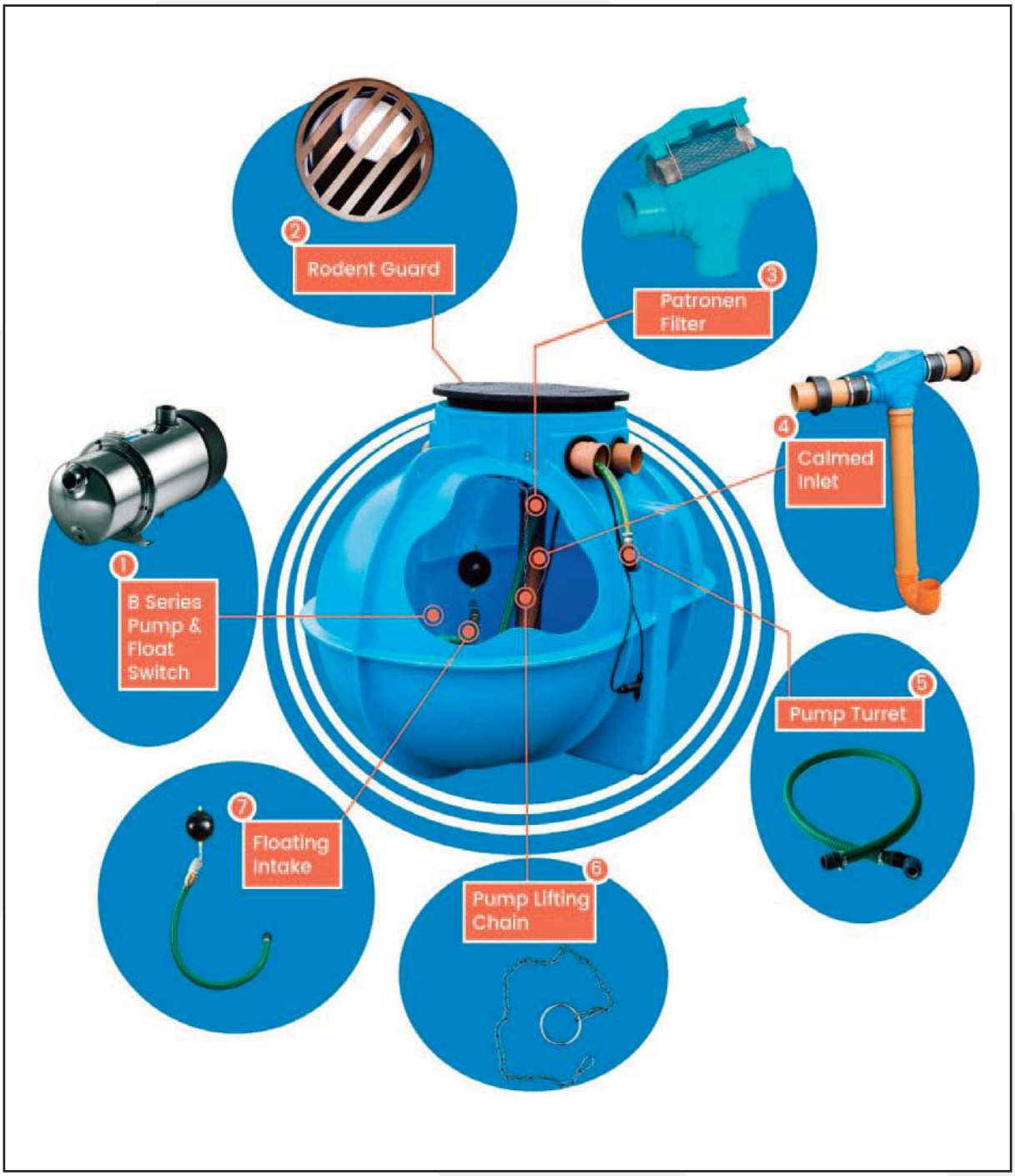
7. The floating intake system ensures that the water is drawn from just below the top level of water. This is commonly regarded as always being the best quality of water available in the tank. The intake system also has a strainer ensuring any finer particles are removed before the water reaches the pump

The lid is shown here but is an optional extra.

The Three Main Systems

Home & Garden Direct Pressure system

The picture below shows the main parts supplied with this system kit. Some of these parts may already be pre-fitted to your tank. This picture can be used to identify and check the availability of all the parts on delivery:



Installation sequence for the Garden Premium system

26. **See parts descriptions below:**

1. The Steelpumps X – AJE80B is a stainless steel submersible water pump. This is an automatic pressure sensing pump that is supplied separately and is lowered into the tank base via a stainless steel chain (provided) for ease of raising and lowering during routine maintenance. See above pump spec for further details

2. The Rodent Guard is a very important feature preventing any unwanted rodents from entering the tank via the overflow. It is pre-fitted as standard and is located on the outlet part of the filter

3. The Patronen Filter – in addition to the details above, this is a self cleaning filter although regular inspection is recommended. This is pre-fitted to the tank prior to delivery

4. The calmed inlet is supplied as pre-fitted. This removes the kinetic energy from the incoming water reducing any stirring up effect. It also introduces fresh and highly oxygenated water into the bottom of the tank thereby reducing stagnation and ensuring water quality is kept high

5. Same as the Garden Eco system

6. This is the stainless steel lifting chain which is supplied separately and is fitted to the pump before lowering into the tank. The handle part hooks onto a pre-fitted stainless steel hook on the inside of the tank neck

7. The floating intake system ensures that the water is drawn from just below the top level of water. This is commonly regarded as always being the best quality of water available in the tank. The intake system also has a strainer ensuring any finer particles are removed before the water reaches the pump

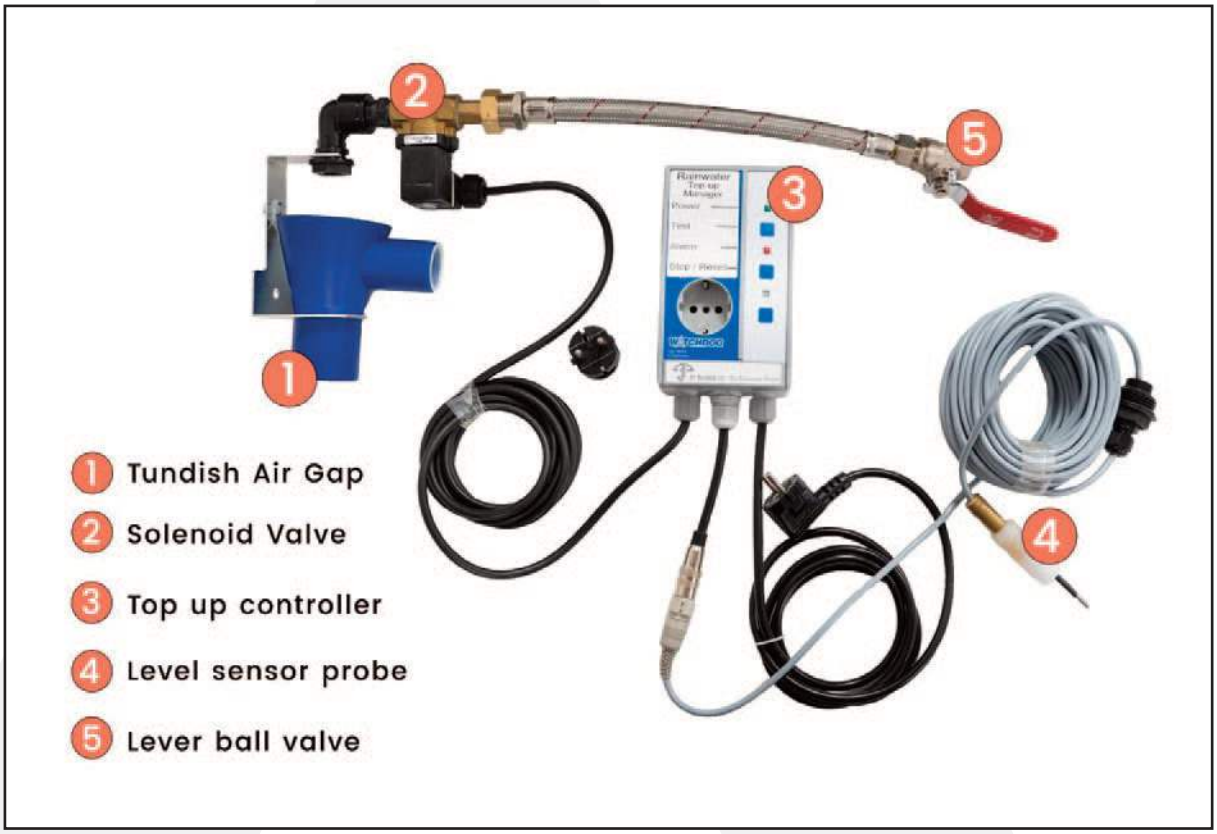
27. **Also included in this kit is the Puratank Mains Water Top-UP Set Compact. Please see the operating and set up instructions as below:**

Automatic mains water top-up for rainwater tanks with leak detection feature and pump dry-run protection.

This unit is primarily designed to work with automatic pumps, i.e. pumps which are self-controlling by having a pressure switch controller built into the pump. If you are in any doubt, please consult a professional. Your supplier can advise you.

You will need to Commission an automatic pump, which needs to feed into a water-tight delivery network. If you are in any doubt, please consult a professional. Experienced Rainwater Harvesting (RWH) commissioning professionals are available to assist you. Failure to commission an automatic pump may invalidate your warranty. A guide to commissioning is available as an Appendix to this document. A pressure vessel will prolong the life of automatic pumps. This is a reliable electronic controller that will give decades of trouble-free service, once correctly installed.

Component Listing



1. Tundish with Steel Wall Bracket. DN 40 Overflow. DN 50 Outlet
2. Solenoid Valve
3. Control Unit Module
4. Level Probe, 15m standard
5. Lever Ball Valve, for isolating mains water supply

In addition, there is a "Schuko" (European) Mains Plug. This is supplied in order to allow you to connect any pump to the European style mains socket on the front of the Unit.

27. Handling and Storage, Pre-installation

- Do not leave the Control Unit or solenoid valve outdoors in the rain. They are not IP68 waterproof. Do not store or use in a location subject to freezing temperatures. This may include some outbuildings and uninsulated loft spaces.

- This is not an armoured or heavy-duty appliance, it will not survive impact and drops, crushing, etc. Do not leave on the floor. If damaged do not use it.

- Do not store with or upon cement, sand, plaster, etc. These materials will corrode the circuit board (and cause cosmetic damage).

Site Selection for the Controller Unit

We recommend installation be carried out by a qualified electrician. The Control Unit and Solenoid Valve must be mounted indoors in a dry place. Do not install in a location subject to freezing temperatures. It can be wall mounted using the supplied fittings.

NOTE: It is not a waterproof unit. DO NOT install in a tank turret.

We strongly recommend wiring the unit on a dedicated circuit, protected by a 10A Type C circuit protective device, in accordance with current best practice and regulatory requirements as defined by BS 7671, current IEE wiring regulations, and Part P of Building Regulations (where applicable). If in any doubt consult a qualified electrician.

There are a wide variety of pumps supplied in the UK rainwater market, some with 2 pin "Schuko", and some with 3 pin UK plugs. A 2 pin "Schuko" plug can plug directly into the plug socket on the face of the unit. If your pump has a 3 pin UK plug there are two options available.

- Change the pump's plug to a 2 pin Schuko plug (one is supplied with this kit).
- Use an earthed 2 pin Schuko to 3 pin UK socket adapter to plug into the Control Unit's pump socket (not supplied).

SAFETY NOTE – European style Schuko plugs are not protected with a fuse, therefore it is vital the controller is installed on a 10A fused outlet to protect both the pump and controller. If in any doubt you MUST consult a qualified electrician.

The Tundish and bracket assembly

The Tundish acts as a Type AA air gap to comply with BS EN 13076: Devices to prevent pollution by backflow of potable water. The Tundish itself and its' ½" feed nozzle are both freely rotatable in the wall mounting bracket.

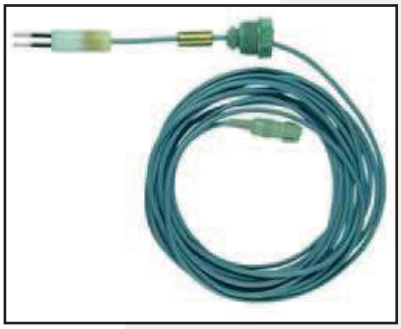
Install the Tundish so that the potable water feed can gravity flow freely into the tank. Check the rate of delivery of potable water does not exceed the capacity of the connected hose/pipework to reach the tank at your site, without backing up. This is part of the Commissioning of your rainwater harvesting system installation process.

The Tundish outlet to the tank (Nominal OD 47mm, ID 39mm) can be connected using 2" hose or with a 50mm MDPE Compression fitting, usually reducing to 32mm minimum, or using Waste Pipe at 50mm.

Note the Tundish has an optional overflow. This is recommended and particularly useful if the top-up feed pipework to the underground tank gets blocked, as it will then likely prevent flooding of the room where the Controller is located. The overflow can be connected with a Universal Waste Adapter. (Product Code AC.WB.5000411UWC).

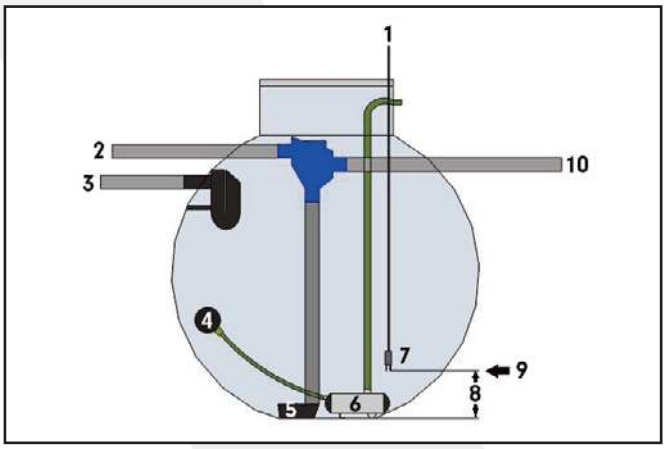
Component Listing

The Level Probe, a Conductivity Probe



The supplied conductivity Level Probe is used as a minimum water level detector in the rainwater tank. The standard length of cable supplied is 15m. This can be extended to order, up to 100m. It carries a very low voltage/current.

1. To Control Unit (from level probe)
2. Water From Roof
3. Max Water Level (overflow)
4. Floating Intake
5. Calmed Inlet
6. Pump
7. Level Probe set 200mm above pump
8. Approx. 0.3-0.4 m (guide only)
9. Minimum Water Level
10. Sewer Connection



Fix the Level Probe in the tank so that it is suspended approximately 0.3 to 0.4 metres above the bottom, depending on the shape of the tank and position of pump inlet. It should be positioned to ensure there is no risk of cavitation or air entrainment to the pump inlet. If in doubt you MUST consult an approved and qualified plumber. The height of the Level Probe determines the minimum water level of the tank at which the pump will run.

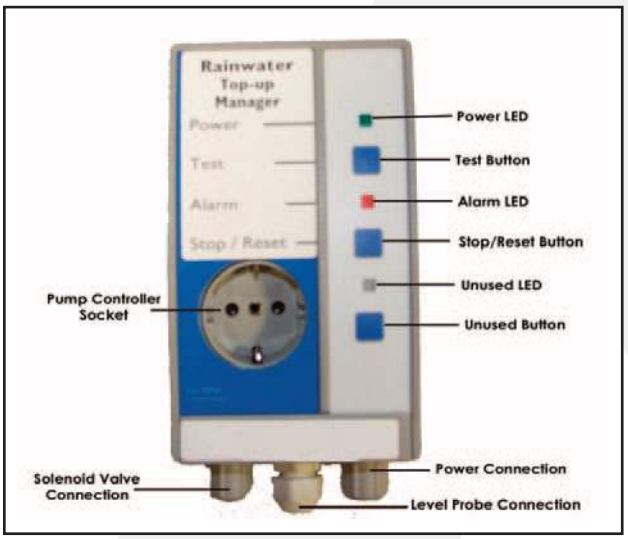
The Level Probe works by conductivity. When the Level Probe's contacts are immersed in water a circuit is completed and the control unit detects this. When the prongs of the probe come out of the water, topping up is activated.

Note: The Level Probe's length of cable can be extended to a maximum of 100m.

OPERATIONAL ADVICE NOTES – Ensure that the tank is entirely free of debris before installing a pump and this controller. Sand, grit, cement and even plastic swarf from manufacturing and other debris will quickly clog any filters and may damage the pump's internal parts and the pump's impellers, prematurely shortening the operational life of the system, and invalidate pump and other component warranties. The potable feed pipework to the solenoid must also be clear and free of debris.

Maintenance Advice – It is good practice to gently clean the probe at intervals of three years or whenever checking the tank.

The Level Probe, a Conductivity Probe



Test button: Pressing this when the Solenoid Valve is closed will momentarily open and close the Solenoid Valve.

Stop/Reset button: Closes the solenoid valve and shuts off power to the pump. The Alarm LED will flash.

A second press will reset the controller to its usual working state.

When the Control Unit is powered up:

High Water Level: If the Level Probe is immersed in rainwater, (i.e. below the rainwater level in the tank) then the green LED remains on, there is power to the pump socket (so a connected pump will then run) and the solenoid valve is closed (i.e. not topping up).

Low Water Level: If the rainwater level falls below the Level Probe a top-up cycle will begin. The green LED flashes and the Solenoid Valve opens to allow mains water to flow via the Tundish and so into the rainwater tank. During the top-up cycle the pump will be turned off (power to the pump is isolated during topping up).

Once the water level reaches the Level Probe again the pump is re-enabled, and so allowed to run. The solenoid valve will remain open for a further ONE minute before closing. The top-up cycle is now complete and the green LED changes from flashing to solid.

Self Maintenance: The Control Unit will momentarily open and close the Solenoid Valve three times a week to prevent blockages. This process takes place automatically.

Safety Shutdown: During a top-up cycle, if the water level in the tank has not reached the level probe after 30 minutes of topping up, the unit will shut off the pump and close the solenoid. The red alarm LED lights to indicate that there is one or more of: 1. a leak or blockage in the delivery pipework feeding to the tank, 2. a failure of the tank itself, or 3. a problem with the solenoid valve.

LED Indicators

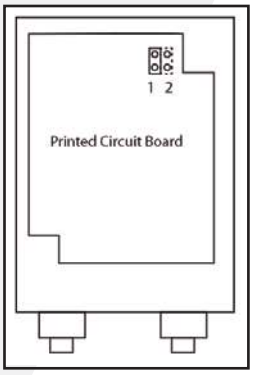
LED Indicators

Green - Solid	Normal Operation. Solenoid Valve closed. Pumps runs as usual. Water level sufficient.
Green - Flashing	Top-up cycle in progress. Solenoid Valve open (topping up). Pump is disabled (switched off) during top-up.
Red - Solid	Safety shutdown. Top up failed.
Red - Flashing	Control Unit stopped manually (stop/reset button has been pressed by an operator).

Internal Jumper Settings

This can be adjusted to increase the duration of the top-up cycle, and should be set by Puratank in advance, or otherwise adjusted by a qualified electrician or instrumentation technician.

The power supply MUST be disconnected before opening the Control Unit, there are hazardous voltages inside.



For larger tanks and flow rates the jumper can be moved from the default position 1, to position 2. This position tops up much more water into the tank. (see below).

In position 2 the pump shut-off delay and alarm delays are also increased accordingly.

If in any doubt please consult a qualified electrician or electronic technician.

> **Attention!** The Control Unit must only be opened when it has been ensured that there is no power to the unit.

Jumper Setting	Delay before pump shut-off during top-up	Top-up duration after level probe is reached	Safety Shutdown delay
1	15 sec	1 min	30 min
2	10 min	20 min	45 min

LED Indicators & Troubleshooting

Internal Jumper Settings

Jumper setting 1: The pump will turn off 15 seconds after the beginning of a top-up cycle. The Solenoid Valve will close 1 minute after the water level reaches the Level Probe. If the water level doesn't reach the Level Probe within 30 minutes the unit alarms.

Jumper setting 2: The pump will turn off 10 minutes after the beginning of a top-up cycle. The Solenoid Valve will close 20 minutes after the water level reaches the Level Probe. If the water level doesn't reach the Level Probe within 45 minutes the unit alarms.

Troubleshooting Guide: an "At Site Level" Fault Finder

Symptom	Possible Faults	Solution
Solid Red LED – Controller has alarmed and shut down.	Solenoid is blocked	Press Reset, then test solenoid by pressing Test button. If solenoid clicks but no water flows, check the supply pipework and flexi-hose for blockages. If supply is clear but solenoid does not function, replace solenoid (call technical support).
	Solenoid has failed.	If solenoid does not click, check wiring from solenoid to controller for possible damage. If OK replace solenoid (call Puratank Technical support).
	Solenoid functions normally, tundish overflows	The supply pipe from tundish to tank is blocked. Clear blockage and retest.
	Solenoid functions normally, tundish does not overflow but tank does not fill.	Check tundish to tank pipework by visually looking for top-up water entering the tank. If no water is present, suspect failure in pipework. If water is present suspect tank failure.
Flashing red LED – Controller has been stopped Manually.	No fault.	Press the stop/reset button to reset the controller.

Troubleshooting

Symptom	Possible Faults	Solution
Top-up cycle is too frequent causing pump to be shut off during demand for water.	Too small a top-up time is selected.	Follow the Internal Jumper Settings instructions to change the jumper to position 2. Consult a qualified electrician before opening the Control Unit. If in any doubt please consult a qualified electrician or electronic technician.
Top-up cycle activates often, even when no water is drawn on demand.	Possible tank failure or fault (leak) in supply pipes from pump.	Shut down controller and pump and check tank water level periodically (during dry weather). If water level drops, suspect tank failure. Otherwise switch on controller and pump and check for leaks in outlet pipes from pump, and possible leaks of toilet float valves, etc. Consider a larger pressure vessel. Consult a professional adviser..
Controller does not function (no lights).	Internal fuse failure. Controller or associated wiring has tripped the mains circuit	Have the controller's internal fuses checked by a qualified electrician and replaced if necessary. If the unit fails again, contact your supplier for replacement. If in doubt please consult a qualified electrician or electronic technician. Have the supply circuit checked by a qualified electrician. Check circuit breaker is of a suitable rating (10A Type B recommended), also test wiring insulation and earth. If the supply circuit is proved to have no fault, contact your supplier for replacement.
Pump does not run, top-up and other functions seem ok.	Pump failure. Controller Damaged.	Unplug the pump and test separately. The control unit can supply up to 10A at 240v to the pump. It may be damaged if this specification is exceeded.
For all other faults.	Contact your system supplier.	If your system supplier is no longer trading, you may consult Puratank.

Full Technical Specification

Control Unit

Dimensions (W x H x D):	97mm x 163mm x 62mm
Weight:	0.5 kg
Supply voltage:	AC 230-240 V 50 Hz
Nominal Power Consumption:	5w (excluding pump)
Internal fuse:	32 mA
Pump power outlet socket:	AC 230-240 V, max. 10 A (fused)
Mains Plug Fuse:	T 10 A
Operating Temperature Range Ambient:	0 °C to +40 °C
Electrical Protection class:	II (DIN 57 700)
Ingress Protection:	IP 20 (EN 60529)
Noise immunity:	According to EN 50082-1
Noise suppression:	According to EN 50081-1

Level Probe

Supply voltage:	AC 6 V
Probe current:	1.2 mA
able length:	15m (max. 30m)
Dimensions of probe (L x Ø):	87mm x 30mm
Weight:	0.2 kg
Principle of operation:	Conductivity
Medium:	Clean water

Solenoid Valve

Dimensions (W x H x D):	95mm x 80mm x 100mm
Weight:	0.5 kg
Supply voltage:	AC 230-240 V 50 Hz
Power consumption:	max. 5.5 VA
Connection cable:	3m
Mounting position:	Any
Medium:	Clean water
Maximum pressure:	12 bar
Flow rate at 4 bar inlet pressure & open outlet:	approx. 50 l/min
Connection:	Inlet: ¾" BSP union nut with in-line filter
Function:	Closed when de-energised
Protection:	IP 56 (EN 60529)
Outlet:	½" BSP female thread

Atlantis PuraTANK

Commissioning

28. **Commissioning is the final stage before the system is handed-over to the end-user and is shown to be functioning correctly; commissioning is intended to ensure:**

- The installation is complete and "Fluidmaster" valves fitted to cisterns (where applicable)
- All connections to the mains water top-up system are correct (where applicable)
- The pump and associated fittings and cables are correctly positioned in the tank
- Pump dry-run protection working
- The filter is correctly housed
- The mains back-up is functioning (checked as explained above)
- The system is holding pressure
- There are no leaks or weeps
- The installation and user manuals are present for the end-user
- On completion of the commissioning checks, the in-tank filter is to be lined with polythene to prevent rainwater entering the tank before the property is sold and occupied

29. **Bearing in mind that by this stage much of the installation work may no longer be visible, there is the potential for tradesmen to satisfactorily test the system at the completion of their work, but for it to subsequently malfunction due to hidden defects arising during installation.**

30. **Typical examples of poor workmanship that are likely to cause subsequent operational problems, include:**

- Failure to fit leaf-guards to down-pipes, leading to a blockage of the pre-tank filter
- Underground pipes being poorly joined, leading to the ingress of ground-water
- Tank neck & lid assemblies being poorly sealed, again leading to the ingress of ground-water
- Site dust/soil and debris being allowed to enter into the storage tank or drainage runs leading to poor water quality and premature pump failures
- Failure to keep delivery pipes sealed during pull-through, leading to site debris gaining entry to the pipe
- Surface water being allowed to enter the tank for a prolonged period (ie in excess of 20-days) and stagnating before the system enters regular service

31. **This places a premium on good workmanship and supervision during the installation process to ensure:**

- No debris is allowed to enter the tank or any of the pipe-work
- The tank and pipe-work are undamaged, and all connections are water-tight
- Invert levels are correct, and backflow prevention valves are fitted in high water-table installations, or if the overflow is connected to a storm-drain
- A filter cover is fitted until immediately before the system is handed-over to the end-user

Handing-over

32. **The system is now ready to be signed-off by the commissioning tradesman, and handed-over to the client, covering all relevant points such as:**

- Demonstrating use of the equipment, and its controls
- Explaining any system limitations/constraints
- Identifying the major components, their inter-relationship and normal function
- Explaining maintenance requirements
- Running through the fault-finding guide
- Providing system support contact information
- The need to remove the filter seal when the property is about to be occupied
- Providing the Safety File copies of the O&M Manual (commercial systems) or Installation & User Manuals (domestic systems)

⚠ **Arrangements also need to be in place to ensure that the end-user receives an equally comprehensive hand-over.**

Safety & access

Proper risk assessments are to be made whenever maintenance work is undertaken on the system.

For most of the checks to be made during routine maintenance and repair activities, electrical power will need to be "on", and all system stop-cocks "open"; however, care must be taken to:

- ⚠ Isolate electrical power when appropriate to the work being undertaken
- ⚠ Close any stop-cock and isolate the pump when plumbing connections need to be broken (during removal and cleaning of in-line strainer, for example); re-made connections are to be properly re-taped with PTFE, where appropriate

Using the system

Routine maintenance

35. **The routine maintenance requirements of the system is limited to a quarterly check of:**

- Whether the user has experienced any problems or unusual symptoms
- The correct operation of services, including dry-run protection & mains top-up
- No signs of leaks or weeps
- No sign of wiring deterioration
- Correct operating pressure
- Gutters clean, leaf filters in place, and pre-tank and in-line filters removed/cleaned
- Good water quality in the main storage tank, and to services
- No "tide-mark" in the neck of the tank to indicate over-filling (ie overflow failure)
- Tank contents matches contents gauge (if present) and the weather/usage pattern

Fault finding

36. **Helpful information is provided at www.atlantistanks.co.uk under the Puratank section**

37. **Generic reasons why systems may malfunction include:**

- **No power** supply to the system; check fuses etc
- **No water** in the tank; check pre-tank filter is clean and operation of the back-up
- **Pump inoperative;** may need replacing or re-setting (power "off"/"on")
- **Incorrect top-up** operation; check float-valve/sensor suspension and operate manually
- **Component failures**
- **Pump "hunting"** (when services not being used); weep or leak on the delivery side of the system (will shorten pump life and may cause it to fault-out)
- **Continuous pumping** (but no pressure to services); delivery pipe split or disconnected from the pump (system needs to be switched-of as soon as detected to protect the pump and avoid energy waste)

Water quality

38. ⚠ **The water appearing in toilet bowls should look clean/clear; as noted above, checking the quality of the water in the main storage tank is one of the requirements of periodic maintenance because:**

- Poor quality water in the tank will provide poor quality water to the services which is unacceptable
- It may be an indicator of pre-tank filtration issues, which may additionally affect its efficiency at harvesting water
- Poor quality water may damage the pump, or reduce pump life

Using the system

39. **In the event of water-quality issues arising, potential causes include:**

- System continuing to harvest rainwater which remains unused during the period between installation and occupancy (avoided by sealing the filter until the system is ready for use)
- Foreign matter being allowed to enter the tank during the construction process (which must be avoided)
- Ground-water ingress (avoided by sealing properly the neck shaft and all underground connections during installation)
- Back-flow from under-performing soak-aways (avoided by installation of one-way valves on the over-flow)

Sales terms & conditions

40. Please see below:

This page (together with the documents referred to on it) tells you the terms andconditions on which we supply products ('Products') to you ("Conditions"). Pleaseread these Conditions carefully before ordering any Products from us. You should understand that by ordering any of our Products, you agree to be bound by these Conditions.

You should print a copy of these Conditions for future reference.

2. YOUR STATUS
By placing an order with us, you confirm that you are legally capable of entering into binding contracts.

By placing an order with us, you also confirm that:

(a) You are a business that is incorporated and operating in the United Kingdom; or

(b) You are an individual who is 18 years or older and a sole trader or a partner in a partnership incorporated and operating in the United Kingdom.

We rely on these statements by you in entering into an agreement with you for sale of any Product.

3. HOW THE CONTRACT IS FORMED BETWEEN YOU AND US
3.1 After placing an order, you will receive an e-mail from us acknowledging that we have received your order. Please note that this does not mean that your order has been accepted. Your order constitutes an offer to us to buy Products. All orders are subject to acceptance by us, and we will confirm any such acceptance to you by sending you an e-mail that confirms that the Products have been dispatched ('the Dispatch Confirmation'). The contract between us ('Contract') will only be formed when we send you the Dispatch Confirmation.

3.2 The Contract will relate only to those Products whose dispatch we have confirmed in the Dispatch Confirmation. We will not be obliged to supply any other Products which may have been part of your order until the dispatch of such Products has been confirmed in a separate Dispatch Confirmation.

3.3 We may, in our absolute discretion, allow you to cancel the Contract and return the Products at any time within fourteen days after the date on which the Contract is formed. If we agree to cancel the Contract under these circumstances, we will refund the price of the Products after deducting delivery, return and re-stocking costs.

4. AVAILABILITY AND DELIVERY
4.1 We shall deliver the Products to the location set out in the Order or such other location as the parties may agree ('Delivery Location').

4.2 We will use our reasonable endeavours in an effort to ensure that your order is fulfilled by the delivery date set out in the Dispatch Confirmation or, if no delivery date is specified, then within 30 days of the date of the Dispatch Confirmation ('Delivery Date').

4.3 Delivery is completed on the completion of unloading of the Products at the Delivery Location.

4.4 Any dates quoted for delivery are approximate only, and the time of delivery is not of the essence. We shall not be liable for any delay in delivery of the Products that is caused by a Force Majeure Event or your failure to provide us with adequate delivery instructions or any other instructions that are relevant to the supply of the Products.

4.5 If we fail to deliver the Products, our liability shall be limited to the costs and expenses incurred by you in obtaining replacement goods of similar description and quality in the cheapest market available, less the price of the Products. We shall have no liability for any failure to deliver the Products to the extent that such failure is caused by a Force Majeure Event or your failure to provide us with adequate delivery instructions or any other instructions that are relevant to the supply of the Products.

4.6 You must inspect the Products on delivery and notify us without delay if you identify any defects.

4.7 If you fail to accept delivery of the Products on the Delivery Date, then, except where such failure or delay is caused by a Force Majeure Event or our failure to comply with our obligations under the Contract:

(a) Delivery of the Products shall be deemed to have been completed on the Delivery Date.

(b) We shall store the Products until delivery takes place and we hold the right to charge you for all related costs and expenses (including insurance). The storage fee applies as follows:

- free of charge for up to 1 month from the originally agreed delivery date.
- > 1 month the charge is £20 per m² per week.

4.8 After a period of time, if you have not accepted actual delivery of the Products, we may resell or otherwise dispose of part or all of the Products and, after deducting reasonable storage and selling costs, account to you for any excess over the price of the Products or charge you for any shortfall below the price of the Products.

4.9 Additional terms and conditions relating to delivery are available on our web site. Please read those terms and conditions carefully before ordering any Products from us. You should understand that by ordering any of our Products, you agree to be bound by those terms and conditions as well as these Conditions.

5. RISK AND TITLE

5.1 The Products will be at your risk from the time of delivery.

5.2 Ownership of the Products will only pass to you when we receive full payment (in cash or cleared funds) of all sums due in respect of the Products, including any delivery charges.

5.3 Until title to the Products has passed to you, you shall:

(a) Not remove, deface, or obscure any identifying mark on or relating to the Products.

(b) Not install the Products.

(c) Maintain the Products in satisfactory condition and keep them insured against all risks for their full price from the date of delivery.

5.4 At any time before title to the Products passes to you, we may require you to deliver up all Products in your possession and if you fail to do so promptly, we may enter any of your premises and/or those of any third party where the Products are stored in order to recover them.

6. PRICE AND PAYMENT

6.1 The price of any Products will be as quoted on our site from time to time, except in cases of obvious error.

6.2 These prices (unless stated otherwise) include VAT and delivery costs (apart from goods/services sold out of the UK).

6.3 Prices are liable to change at any time, but subject to clause 6.6 changes will not affect orders in respect of which we have already sent you a Dispatch Confirmation.

6.4 It is always possible that, despite our best efforts, some of our Products may be incorrectly priced. We will normally verify prices as part of our dispatch procedures so that, where the Products' correct price is less than our stated price, we will charge the lower amount when dispatching the Products to you. If the Products' correct price is higher than the price stated, we will normally, at our discretion, either contact you for instructions before dispatching the Products, and/or reject your order and notify you of such rejection.

6.5 We are under no obligation to provide the Products to you at the incorrect (lower) price, even after we have sent you a Dispatch Confirmation if the pricing error is obvious and unmistakeable and could have reasonably

Sales terms & conditions

been recognised by you as a mis-pricing.

6.6 We may, by giving notice to you at any time up to 5 days before delivery, increase the price of the Products to reflect any increase in the cost of the Products that is due to:

(a) Any request by you to change the Delivery Date, quantities, or types of Products ordered.

(b) Any delay caused by any of your instructions or your failure to give us adequate or accurate information or instructions.

6.7 Unless agreed otherwise in writing, we may invoice you for the Products on or at any time after you place your order.

6.8 You shall pay for the Products:

(a) When you place your order or in accordance with any credit terms agreed in writing.

(b) In full and in cleared funds to a bank account that we nominate in writing.

6.9 Time for payment shall be of the essence of the Contract.

6.10 If you fail to make a payment due to us under the Contract by the due date, then, without limiting our remedies under clause 9 (Termination), you shall pay interest on the overdue sum from the due date until payment of the overdue sum, whether before or after judgment. Interest under this clause 6.10 will accrue each day at 4% a year above the Bank of England's base rate from time to time, but at 4% a year for any period when that base rate is below 0%.

6.11 All amounts due under the Contract shall be paid in full without any set-off, counterclaim, deduction or withholding other than any deduction or withholding of tax as required by law.

6.12 We accept payment by credit and debit card, and Paypal. We also accept payment by BACS, CHAPS or FPI etc.

6.13 We have the right to revise or revoke any credit terms in the event that you breach the Contract.

7. CASHBACK SCHEME

7.1 We offer a cashback scheme to you as detailed here which starts on 1st May 2023 unless it is changed, replaced, or withdrawn by us earlier.

7.2 You will automatically qualify for 1% cashback on any purchase made through our website where you have an account with us. This applies for online purchases only and applies to the total amount spent on the website (including VAT and delivery). You will receive a credit note to reflect VAT calculations for your own records.

7.3 Your cashback amount will be calculated automatically on our website once you have made a purchase and any available amounts will be shown on your account.

7.4 Your cashback amount can be claimed in the following ways by selecting the appropriate option via your account:

(a) Set off against the amount of a future online purchase via our website.

(b) Redeemed by request for a cash transfer direct to a bank account of your choice.

(c) Redeemed as an Amazon voucher in set amounts.

7.5 You can redeem your cashback amount straight away or allow it to accumulate and redeem at a later stage in any of the three ways set out in 7.4 above.

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8. WARRANTY / OUR LIABILITY

8.1 We warrant to you that at the time of delivery any Products purchased from us through our site will be of satisfactory quality and reasonably fit for any purpose held out by us.

8.2 We warrant that at the time of delivery the Products will be compliant with all applicable laws, but any requirement to re-test the Products following delivery will be your responsibility.

8.3 We guarantee that on delivery and for a period of twelve months (the "Guarantee Period"), the Products shall be free from material defects. Proof of purchase will be required. However, this guarantee does not apply in the circumstances described in clause 8.6.

8.4 Subject to clause 8.6, we shall, at our option, repair or replace the defective Products, or refund the price of the defective Products in full if:

(a) You give us notice in writing during the Guarantee Period within a reasonable time of discovery that some or all the Products do not comply with the guarantee set out in clause 8.3.

(b) We are given a reasonable opportunity of examining such Products.

8.5 These Conditions shall apply to any repaired or replacement Products that we supply.

8.6 The guarantee set out in clause 8.3 does not apply to any defect in the Products arising from:

(a) You continuing to use the Products after giving notice in accordance with clause 8.4.

(b) Fair wear and tear.

(c) Wilful damage, abnormal storage or working conditions, accident, negligence by you or by any third party.

(d) If you fail to operate or use the Products in accordance with the user instructions.

(e) Any alteration or repair by you or by a third party.

(f) Any specification provided by you.

8.7 In addition to clause 8.3 we also provide an extended warranty period against faulty materials or workmanship from the date of purchase for the following products below:

EasyTANK:

- 10- & 12-year guarantee on plastic bunded oil tanks
- 3-year guarantee on plastic single skin oil tanks
- 10-year guarantee on steel bunded oil tanks
- 3-year guarantee on steel single skin oil tanks
- 10-year guarantee on fire-resistant steel oil tanks
- 10-year guarantee on fire resistant plastic oil tanks

PuraTANK:

- 10-year guarantee on underground water tanks
- 10-year guarantee on above ground water tanks
- 10-year guarantee on underground cesspools
- 10-year guarantee on underground grease traps
- 10-year guarantee on underground septic tanks

PortaFUEL:

- 5-year guarantee on steel portable diesel tanks
- 2-year guarantee on plastic portable diesel tanks

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- 2-year guarantee on portable tanks for AdBlue®

StoraFUEL:
- 10-year guarantee on generator feed steel bunded tanks
- 10- & 12-year guarantee on plastic static diesel tanks
- 10-year guarantee on steel static diesel tanks
- 10- & 12-year guarantee on static tanks for AdBlue®
- 12-year guarantee on plastic waste oil tanks
- 10-year guarantee on steel waste oil tanks
- 10-year guarantee on steel lube oil tanks

The guarantee excludes ancillary fittings such as liquid measuring gauges or mechanical pumps.

8.8 This guarantee does not confer any rights other than those expressly set out below and does not cover any claims for consequential loss or damage:

- The tank has not been misused or handled carelessly.
- The tank is used for the storage of Kerosene (C1/C2), Agricultural Fuel Oil (A2 and Diesel (D), (BS2869: Part 2:1998) or in the case of water and waste tanks – water or the specified waste. It should be noted that our tanks are not suitable for the storage of petrol or liquid petroleum gas (LPG).
- The tank is installed in accordance with the installation instructions.
- The tank has been installed by an OFTEC approved installer and / or complied with the current Building Control Regulations at time of installation.
- The tank has not transferred ownership.
- Steel tanks must be painted following installation to cover any bare metal areas caused during transit & installation. Steel tanks must also be painted once a year to maintain the 3- or 10-year warranty. (If painted once a year we can advise that the tanks will last longer than the warranty period advised). The tank paint is a Zinfoss paint which can be purchased on our website.

8.9 The guarantee is offered as an extra benefit and does not affect your statutory rights as a customer.

8.10 The terms implied by sections 13 to 15 of the Sale of Goods Act 1979 are, to the fullest extent permitted by law, excluded from the Contract.

8.11 We have obtained insurance cover in respect of its own legal liability for certain claims, but we have been unable to obtain insurance in respect of certain types of loss at a commercially viable price. The limits and exclusions in this clause 8 reflect the insurance cover that we have been able to arrange, and you are responsible for making your own arrangements for the insurance of any excess loss.

8.12 The restrictions on liability in this clause 8 apply to every liability arising under or in connection with the Contract including for negligence.

8.13 Our liability for losses you suffer as a result of us breaching the Contract is limited to the purchase price of the Products you purchased. We are not responsible for indirect or consequential losses including but not limited to:

(a) Loss of the content of any tank.

(b) Damage to tangible property.

(c) Loss of income or revenue.

(d) Loss of profits.

(e) Loss of sales or business.

(f) Loss of agreements or contracts.

(g) Loss of anticipated savings.

(h) Loss of use or corruption of software, data or information.

(i) Loss of or damage to goodwill.

(j) Reinstallation and removal costs.

(k) Remedial costs.

8.14 This does not exclude or limit in any way our liability:

(a) For death or personal injury caused by our negligence or the negligence of our employees, agents, or subcontractors.

(b) For fraud or fraudulent misrepresentation.

(c) For any matter for which it would be unlawful for us to exclude, or attempt to exclude, our liability.

8.15 This clause 8 shall survive termination of the Contract.

9. TERMINATION

9.1 Without limiting our other rights or remedies, we may suspend provision of the Products under the Contract if you fail to pay any amount due under the Contract on the due date for payment.

9.2 Without limiting our other rights or remedies, we may terminate the Contract with immediate effect by giving written notice to you if you fail to pay any amount due under the Contract on the due date for payment.

9.3 On termination of the Contract for any reason you shall immediately pay all of our outstanding unpaid invoices and interest and, in respect of Products supplied but for which no invoice has been submitted, we shall submit an invoice, which shall be payable by you immediately on receipt.

9.4 Termination or expiry of the Contract, however arising, shall not affect any of the parties' rights and remedies that have accrued as at termination or expiry, including the right to claim damages in respect of any breach of the Contract which existed at or before the date of termination or expiry.

9.5 Any provision of the Contract that expressly or by implication is intended to come into or continue in force on or after termination or expiry of the Contract shall remain in full force and effect.

10. WRITTEN COMMUNICATIONS

Applicable laws require that some of the information or communications we send to you should be in writing. When using our site, you accept that communication with us will be mainly electronic. We will contact you by e-mail or provide you with information by posting notices on our website. For contractual purposes, you agree to this electronic means of communication and you acknowledge that all contracts, notices, information, and other communications that we provide to you electronically comply with any legal requirement that such communications be in writing. This condition does not affect your statutory rights.

11. NOTICES

All notices given by you to us must be given to us at sales@atlantistanks.co.uk. We may give notice to you at either the e-mail or postal address you provide to us when placing an order, or in any of the ways specified above. Notice will be deemed received and properly served immediately when posted on our website, 24 hours after an e-mail is sent, or three days after the date of posting of any letter. In proving the service of any notice, it will be sufficient to prove, in the case of a letter, that such letter was properly addressed, stamped, and placed in the post and, in the case of an e-mail, that such e-mail was sent to the specified e-mail address of the addressee.

12. TRANSFER OF RIGHTS AND OBLIGATIONS

12.1 The Contract between you and us is binding on you and us and on our respective successors and assigns.

Sales terms & conditions

12.2 You may not transfer, assign, charge or otherwise dispose of the Contract, or any of your rights or obligations arising under it, without our prior written consent.

12.3 We may transfer, assign, charge, sub-contract or otherwise dispose of the Contract, or any of our rights or obligations arising under it, at any time during the term of the Contract.

13. EVENTS OUTSIDE OUR CONTROL

13.1 We will not be liable or responsible for any failure to perform, or delay in performance of, any of our obligations under a Contract that is caused by events outside our reasonable control ('Force Majeure Event').

13.2 A Force Majeure Event includes any act, event, non-happening, omission, or accident beyond our reasonable control and includes in particular (without limitation) the following:

(a) Strikes, lock-outs or other industrial action.

(b) Civil commotion, riot, invasion, terrorist attack or threat of terrorist attack, war (whether declared or not) or threat or preparation for war.

(c) Fire, explosion, storm, flood, earthquake, subsidence, epidemic, pandemic, or other natural disaster.

(d) Impossibility of the use of railways, shipping, aircraft, motor transport or other means of public or private transport.

(e) Impossibility of the use of public or private telecommunications networks.

(f) The acts, decrees, legislation, regulations, or restrictions of any government.

13.3 Our performance under any Contract is deemed to be suspended for the period that the Force Majeure Event continues, and we will have an extension of time for performance for the duration of that period. We will use our reasonable endeavours to bring the Force Majeure Event to a close or to find a solution by which our obligations under the Contract may be performed despite the Force Majeure Event.

13.4 We may have to cancel your order if stock is unavailable. If this happens:

(a) We will promptly contact you to let you know.

(b) If you have made any payment in advance for Products that have not been delivered to you, we will refund those amounts to you.

(c) We will not charge you anything further and you will not have to make any payment to us.

14. WAIVER

14.1 If we fail, at any time during the term of the Contract, to insist upon strict performance of any of your obligations under the Contract or any of these Conditions, or if we fail to exercise any of the rights or remedies to which we are entitled under the Contract, this shall not constitute a waiver of such rights or remedies and shall not relieve you from compliance with such obligations.

14.2 A waiver by us of any default shall not constitute a waiver of any subsequent default.

14.3 No waiver by us of any of these Conditions shall be effective unless it is expressly stated to be a waiver and is communicated to you in writing in accordance with clause 11 above.

15. SEVERABILITY

If any of these Conditions or any provisions of a Contract are determined by any competent authority to be invalid, unlawful, or unenforceable to any extent, such term, condition, or provision will to that extent be severed from the

remaining terms, conditions and provisions which will continue to be valid to the fullest extent permitted by law.

16. ENTIRE AGREEMENT

16.1 These Conditions and any document expressly referred to in them represent the entire agreement between us in relation to the subject matter of any Contract and supersede any prior agreement, understanding or arrangement between us, whether oral or in writing. These Conditions apply to the Contract to the exclusion of an other terms which are implied by law, trade custom, practice, or course of dealing.

16.2 We each acknowledge that, in entering into a Contract, neither of us has relied on any representation, undertaking or promise given by the other or be implied from anything said or written in negotiations between us prior to such Contract except as expressly stated in these Conditions.

16.3 Any samples, drawings, descriptive matter or advertising produced by us, and any descriptions or illustrations contained in our catalogues or brochures are produced for the sole purpose of giving an approximate idea of the Products referred to in them. They shall not form part of the Contract nor have any contractual force.

16.4 Each of us agrees that the only rights and remedies available to us arising out of or in connection with a representation shall be for breach of contract as provided in these Conditions.

16.5 Nothing in this clause shall limit or exclude any liability for fraud.

17. OUR RIGHT TO VARY THESE CONDITIONS

17.1 We have the right to revise and amend these Conditions from time to time.

17.2 You will be subject to the policies and Conditions in force at the time that you order products from us, unless any change to those policies or these Conditions is required to be made by law or governmental authority (in which case it will apply to orders previously placed by you), or if we notify you of the change to those policies or these Conditions before we send you the Dispatch Confirmation (in which case we have the right to assume that you have accepted the change to the Conditions, unless you notify us to the contrary within three working days of receipt by you of the Products).

18. LAW AND JURISDICTION

Contracts for the purchase of Products through our site and any dispute or claim arising out of or in connection with them or their subject matter or formation (including non-contractual disputes or claims) will be governed by English law. Any dispute or claim arising out of or in connection with such Contracts or their formation (including non-contractual disputes or claims) shall be subject to the non-exclusive jurisdiction of the courts of England and Wales.

19. GENERAL DATA PROTECTION REGULATION

The General Data Protection Regulation ('GDPR') came into force on 1 May 2018 and sets out how we must process data that we hold about you. We refer you to the GDPR Fair Processing Notice on our site for further details.

20. INFORMATION ABOUT US

Portafuel, Storafuel, Puratank and Easytank are trading names of Atlantis Tanks Group Ltd (company number: 09955291) whose registered address is Legend House, Station Road, Ferryhill, England, DL17 0BP. Details of this company can be found at www.atlantistanks.co.uk.

21. PRIVACY POLICY

We use Stripe for payment, analytics, and other business services. Stripe collects identifying information about the devices that connect to its services. Stripe uses this information to operate and improve the services it provides to us, including for fraud detection. You can learn more about Stripe and read its privacy policy at https://stripe.com/privacy.

Here for you
Tel: 0330 999 1100
Fax: 0844 844 0405
Email: sales@atlantistanks.co.uk
www.atlantistanks.co.uk

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PuraTANK