



Quotation for the supply of Rainwater Harvesting Equipment

Client :

Trevor Ross

Site Reference :

Eythorne Kent CT15 4DQ

Prepared by:

Ian Woodcock

ianw@rainwaterharvesting.co.uk

01733 405104 / 07736 45 46 45

Our reference : IMW222252

Date of proposal : 30/10/2023



Your Proposal

Thank you for your enquiry and as requested please find the following information regarding our proposed system.

SHALLOW DIG F-LINE TANK

	7500
Weight Kg	310
Length	3340
Width	2310
Overall Height	1415 - 1815
Ground to Invert VS60 (Pedestrian 635mm Shaft)	310 - 710
Invert to Outlet	162

EXCAVATION

Length	3740
Width	2710
Overall height VS60	1515 - 1915

Overall height allows for 100mm compacted aggregate

The overall height difference above is because up to 400 mm can be cut off of the 635 mm shaft on site so as to achieve your exact invert level.

The system below has been updated with a UV & Pre Filter

Rainwater Harvesting Limited is a private family owned company, our strong service ethos has been built on many years of experience and this is reflected in our ability to offer both simple to install rainwater harvesting systems and mix and match components to provide bespoke solutions reflecting clients needs. At our 100,000sq ft warehouse in Peterborough we hold over 3000 stock items, we are the largest stockholder of the Shallow Dig Rewatec tanks in the UK and we regularly despatch to site complete rainwater harvesting systems within 5-7 days of order.

Generally a rainwater harvesting system is simple in concept however the differences in design and performance vary greatly from supplier to supplier, the fact that we manufacture as well as supply enables us to help you specify the right system for your project at an aggressive price, we also provide full technical support on all our products.

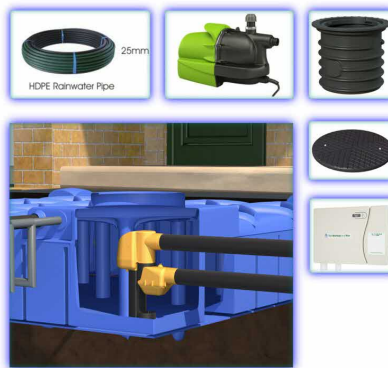
We would welcome the opportunity of supplying your rainwater harvesting system and I can easily be contacted either by phone or email as shown on the previous page



Components and Prices – Supply Only

Product Code : **RWH-7599FL-DUK2.**

7500 Litre Shallow Dig Direct Feed System c/w UV Filtration



Components

Product Code	Description	Qty
RWFT7500	F-LINE 7500L TANK	1
RWDS0062	F-LINE TANK 635mm EXTENSION SHAFT - VS60	1
RWDS0066	F-LINE TANK WALK ON LID	1
RWH-RV01	RAINVANTAGE FILTER KIT INC SIPHON & OVERFLOW	1
RWH-HYD04	HYDROFORCE SERIES 4 PUMP / INC STRAINER	1
RWH-HDPE25/25	25mm HDPE RAINWATER PIPE - 25m ROLL	1
RWH-BUB03	RAIN BACKUP IN A BOX / SD	1
RWH-PKFLINE-STD	FLINE INSTALLATION PACK STANDARD / INC LABELS & 90° ELBOW	1
UV-DS55	UV FILTER - 36 LTR/MIN 1 X 55W LAMP c/w PRE FILTER	1

Price : [REDACTED]

UK delivery is included in the price (Highlands and islands extra)



Mains backup and rainwater management

Direct feed with simple, 12v automatic float switch & solenoid valve for mains water backup

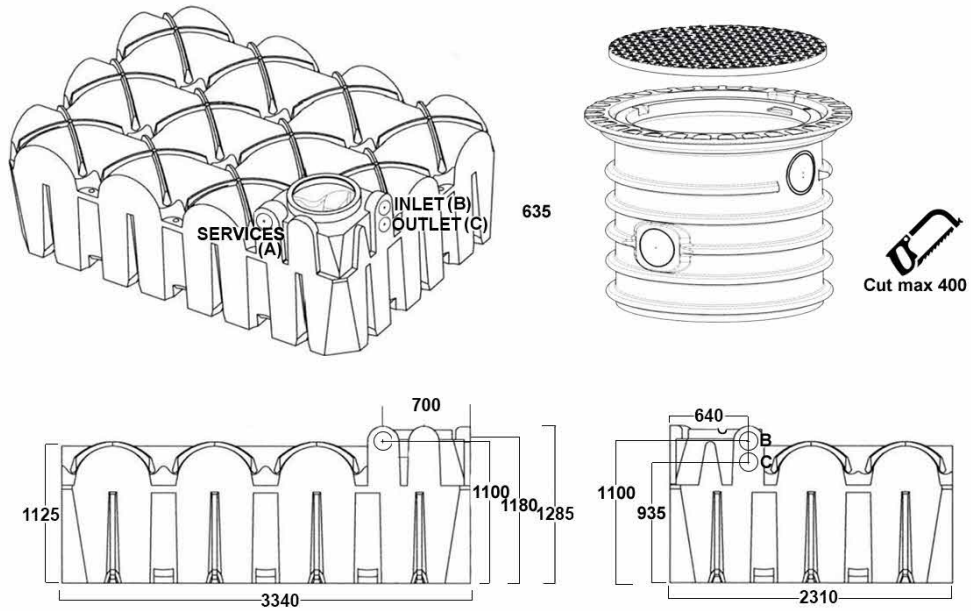
Most often used on a direct feed system, the automatic electrically-actuated solenoid valve (or tap) admits some mains water into the rainwater storage tank as a simple means of maintaining water flow to toilets and washing machine fed by a rainwater harvesting system. This method is sometimes referred to as a trickle-feed mains backup.

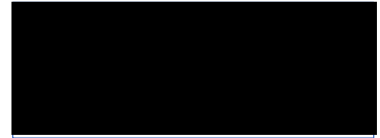
- a) Filtered rainwater flows as normal to the tank
- b) The home is plumbed with a separate pipe network for toilets and washing machine.
- c) When there is rainwater in the tank the pump supplies rain water to the toilets and washing machine. The principle is the same whether the pump is indoors or submerged in the tank.
- d) The pump is a pressure sensitive type or fitted with a pressure-sensitive switch which turns off when water is not being used in the house.
- e) When the tank is nearly empty a float switch turns ON a mains-powered solenoid valve which allows some mains water to flow into the rainwater tank.
- f) The provision of a "Air Gap" is a regulation requirement. This i) provides a visible warning of water flow if the valve sticks open and ii) prevents any possibility of rain water flowing into the mains (drinking) water. After a few moments the floating switch turns the solenoid valve OFF.
- g) Although this simple mains backup can be criticised by some for admitting mains water back into the rainwater tank, it should be pointed out that the tank remains largely empty and can receive new rain water from a downpour at any time.
- h) This is sometimes referred to as "trickle feed" because the tank does not get filled up with water; the level is simply lifted to the level (about 10 cms) where the inlet of the pump can draw water when next called upon.
- i) There is no risk of rainwater being drawn into the mains water supply so there is no risk of breaching building regulations in this respect.
- j) To ease the installation of a variety of components and rather complex wiring, RainWaterHarvesting.co.uk introduced in early 2009 the Rain Backup in a Box® which replaced the higgly piggle of components with a single wall mounted unit, one 12v electric plug to a wall socket, mains water input and a pipe to the underground storage tank. This is supplied as a default with "standard" DUK-2 kits.





7500L F-Line





Backup in a Box with built in wireless level sensor



The Rain Backup in a Box *PLUS* works in the same way as the standard Backup in a Box but comes with the following added benefits :

- Wireless sensor so there are no cables to run from the control unit back to the underground tank

- Built in level sensor so you can see your current water level either on the control unit or via a web browser.

- You can set your own level for when you want the mains water to enter the tank without having to go into the tank.

The Rain Acculevel will accurately measure the water level in your rainwater tank giving readings that you can view on a PC, smart device or the control unit. Using the latest wireless technology, it works on tanks below or above ground and over long distances.

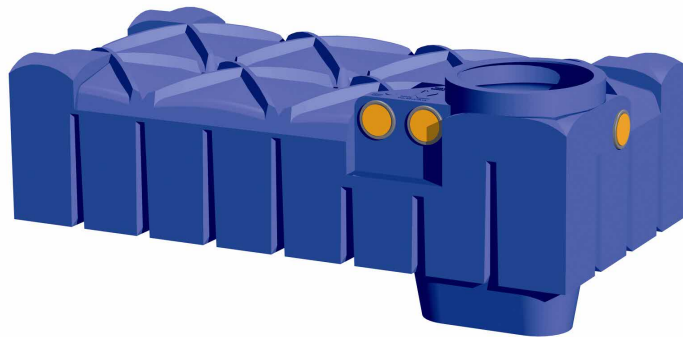
Once placed in your water tank the Rain Acculevel sends signals to a the control unit. The control unit sends the data via your home hub to your own on-line account at tanklevels.co.uk The Acculevel is powered by a long life battery (up to five years)..

The Acculevel will work anywhere as long as the control unit is within signal distance of your a home hub (or router).





F-Line Flat Tank shallow dig underground tank



Why buy this tank?

The F-Line is a high quality, rotationally moulded, one piece rainwater tank that can be installed without the need for concrete, thereby minimising installation costs and supported by our long term 25 year tank guarantee.

Minimal installation depth

Easy and quick to install

Small excavation pit and little earth excavation preserves your garden

Ideal for installation in new or existing properties

Can be installed in ground water up to tank shoulder

Easy to install

The F-line flat tank can be installed into much higher water tables than a standard round tank. If you don't know what your water table will be like in the winter, you're safer to install a flat tank. The F-Line tanks are flat and the installation depth is up to 60% less than other rainwater tanks. The excavation can be up to 70% less, meaning little earth excavation, easy handling and less cost for you! The small excavation pit is easily filled in and your garden will look just like it did before.



The Series 4 water pump
from HydroForce Pumps Ltd.

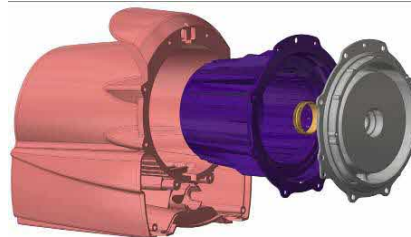


The Series 4 pump has been engineered by HydroForce Pumps Ltd in Peterborough to respond to the demand for the highest quality pump for use underwater in rainwater harvesting tanks. Using the most rugged components it has been exhaustively tested for trouble-free running. The pump features a self-controlling pressure switch and dry run protection. It is suitable for total immersion in rainwater or it can be externally connected to the tank above ground. The Series 4 will

deliver up to 3.5 bar (household pressure is around 2.5-4.0 bar). If connected to a hose or tap, the pump will automatically start to pump water when the tap or hose is turned on. The pump delivers over 2500 litres per hour using a 1" connector and runs at 230v AC delivered by a 5 metre cable.

Specifications

- Submersible: for underwater use in a rainwater tank, or can be used above ground
- Extended two year guarantee
- Nominal pump pressure at outlet 3.5 bar
- Max head 35 metres
- Pressure-sensitive (demand) pump: turns itself off until there is demand for water
- Dry-run Protection: when no water is detected for 8 seconds, the pump is turned off in order to protect the motor and pump from burning out. Automatic reset after a period of 30 minutes.
- Radial flow centrifugal roto-dynamic pump with no reciprocating parts
- New: Alloy bulkhead, pressure release gap and twin chamber design prevents ingress of water to motor, electrical components and to bearing oil.
- New: Double bearing seal prevents egress of bearing oil.
- New: Alloy bulkhead dissipates motor heat to water in the second chamber.
- New: Logic processors in Series 4 printed circuit board prevent other pump anomalies and permit factory programming of reset timings.
- New: Each pump is tested before leaving our factory. Factory measurements are on record for each individual pump. No user-serviceable parts
- Electricity consumption 800 watts at 230 Volts AC 50 Hz (requires 10 or 13 amp fuse and RCD mains socket). Connection cable 10m H07RN-F.
- Dimensions L 565 W 185 H 260 mm, weight 12 kg
- Max suction 8 metres deep, preferable operating regime 4 metres deep
- Inlet port to the non-removable cartridge filter 1 inch (25mm) female BSP
- Outlet port 1 inch (25mm) female BSP provided with push-fit connector for 1 inch (25mm) MDPE pipe.
- Supplied with an inline filter, 1" intake strainer and 1" outlet connection.



Italian styling
British engineering
British manufacture