

# System Sump and Pump

## NEWTON TITAN-2

### Compact Packaged Pumping System

Rev 4.4 - 17 August 2017

PRODUCT CODE - T21-T31

## INTRODUCTION

The [Newton Titan-2](#) is a compact pumping system incorporating an octagonal sump chamber, class-leading pumps, a lock & seal lid and frame, a [Newton High Water Level Alarm](#), internal pipework, one-way valves, and a quick release shut-off valve for quick release of the pumps for servicing. The Newton Titan-2 is ideally suited for receiving connections from rainwater gullies and surface slot drainage entering the sump through optional 110 mm wall flanges for connection to incoming pipework.

The sump can be used with single pumps or twin pumps via a single discharge line.

The unique octagonal sump shape ensures structural stability and provides eight large surfaces for inlets into the pump of up to 110 mm via an optional wall flange. The sump chamber also features a flared base to prevent flotation.

## BENEFITS

- Compatible with a large number of Newton NP and CP clean water pumps (see page 2)
- Compact size allows installation to locations that are too tight for larger pumping systems
- Includes all internal pipe and pipe fittings ready for connection to 50 mm rising main
- One-way valve for each pump included
- Quick release coupling for each pump for easy installation and removal for servicing
- Newton [PA50 High Water Level Alarm](#) included
- Supplied with sealed and locked recessed lid. High end finish lids and frames are available as cost options (see page 3)
- Flat areas to side of chamber ready for wall flanges to receive incoming 110 mm drainage pipes. Wall flanges are available as cost options (see page 1)
- Large foot to base of chamber to prevent flotation

## TYPICAL APPLICATIONS

The Titan-2 is specifically designed for the pumping of water from:

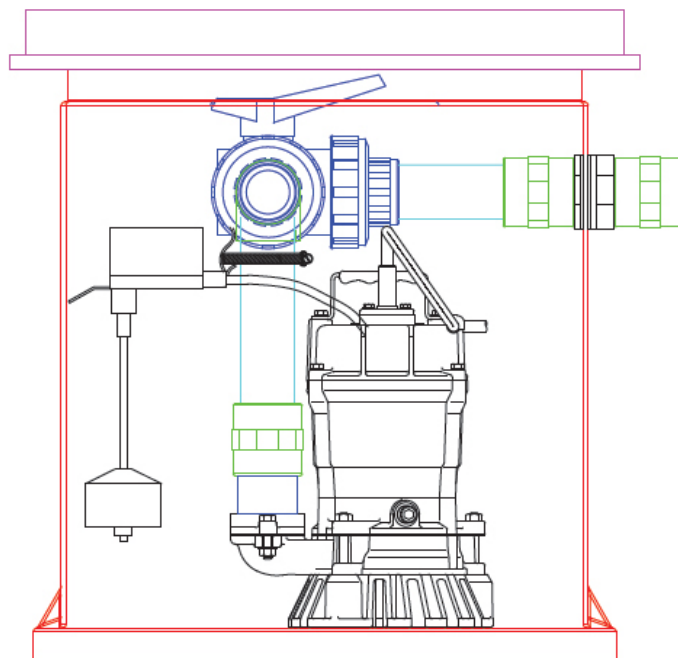
- Basements and cellars
- Light-wells
- Gullies and surface slot drainage

## PRODUCT LIFE EXPECTANCY

The Titan-2 chamber is made from robust HDPE and should provide, under normal service conditions, a chamber for the life of the building. Please see the relevant data sheets for confirmation of the guarantees for the pumps and ancillaries used within the pumping system.

## LIMITATIONS

Not recommended for sewage. Please use [Newton Trojan](#) sewage lifting systems.



## ANCILLARIES

- Power failure protection for [CP250](#) pumps: [Newton Victron Inverter 12/800/35](#) - Newton Code BB1
- Power failure protection for [CP400](#), [NP400](#) & [NP400W](#) pumps: [Newton Victron Inverter 12/1200/50](#) - Newton Code BB2
- Newton Text and Speech [Dialer](#) that can send either text or voice messages to up-to five designated phones should an alarm condition occur - Newton Code PA5
- Advanced pump control with the [Newton Control Panel-Pro](#) that features a weekly diagnosis of the pumps - Newton Code CP2
- Newton [Pump Controller](#) - Simple pump panel that also features a weekly diagnosis of the pumps - Newton Code CP9

# NEWTON TITAN-2

## Compact Packaged Pumping System

### PUMP OPTIONS

The Titan-2 pumping system can be supplied with single or dual automatic or manual pumps. Please use the duty graph below and the pump data sheet to confirm the required pump duty. When ordering, please confirm to the sales staff:

- Pump model
- Automatic pump or manual pump
- Number of pumps

Please note that manual pumps must be matched to the Newton Pump Controller or Newton Control Panel-Pro.

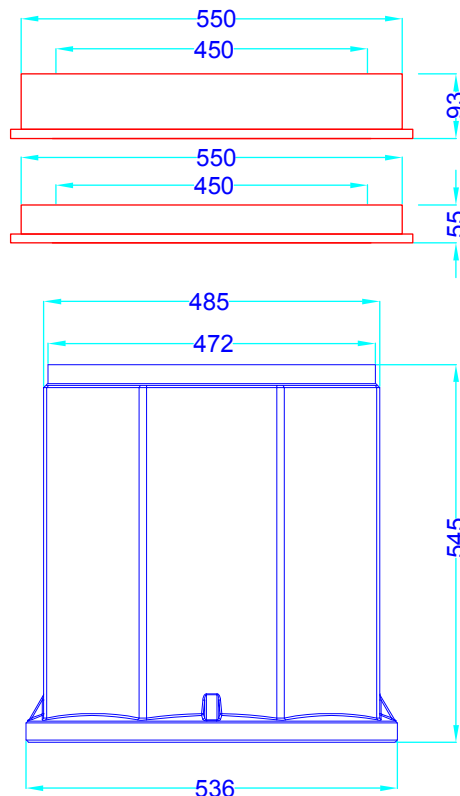
Automatic pumps, except for the NP400W, are supplied with Vertical Float Switches that allow for very flexible pump switching, allowing for adjustment of the ON & OFF positions of each pump, as well as the overall height of the pump switching.

The NP400W has an adjustable float system that is unaffected by effluent and washing machine waste.

Please see pump data sheets for further information.

The internal pipe and fittings are included.

External pipe and fittings in 50 mm can be ordered as required. Please see page 3.

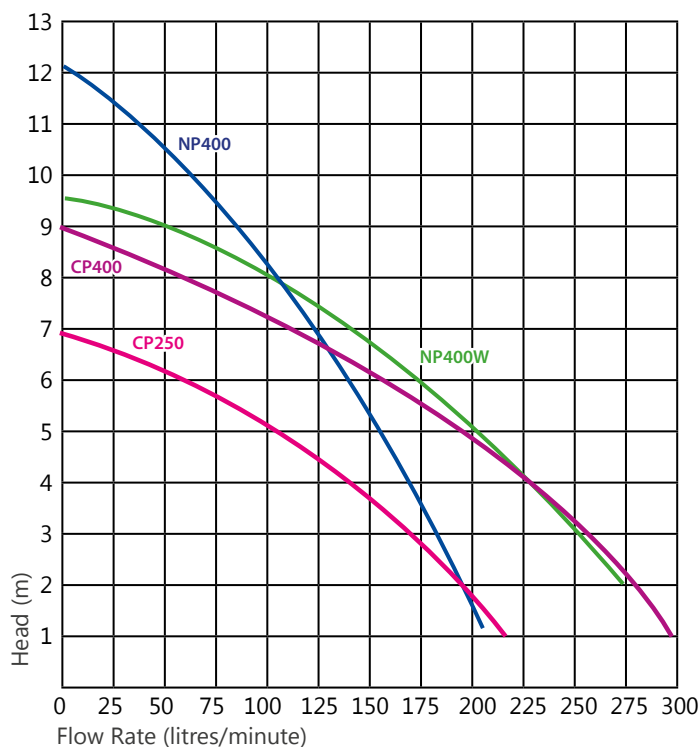


### SYSTEM PARTS

Included within the system packaging is:

- 1 x Locked & Sealed Lid & Frame with 46 mm recess
- One or two Newton CP or NP pumps as ordered
- 1 x check valve per pump. The valve has a BSP thread to the top and the bottom of the valve and screws directly into the pump. A 1 1/2" BSP to 50 mm socket is supplied with each valve. This screws into the top of the valve to provide a socket ready for the supplied internal pipework
- 50 mm pressure-rated pipework including a shut-off valve. Single pump systems have a single 'in-line' shut-off valve and twin pump systems have a three way shut-off valve to allow for disconnection of one pump whilst the other is still operational
- 1 x sump wall discharge assembly that terminates to a 50 mm socket outside of the sump ready for 50 mm pressure rated pipe
- 1 x PA50 High Water Level Alarm

Please note: The sump is supplied without any holes cut to the chamber wall. Inlet and outlet connections and separate conduits for the 230V pumps and 12V Alarm should be cut on site by the installing technician. The discharge line requires a 51 mm hole cutter (not supplied). Inlet connections will require a hole cutter suitable for the size of the inlets. The vertical pipe is supplied slightly over-sized and will need to be cut to the correct size as determined by the discharge line outlet position. Conduit and solvent weld glue is not supplied but required for the installation.



- Newton CP250 - Auto only
- Newton CP400 - Auto and Manual versions
- Newton NP400 - Auto and Manual versions
- Newton NP400W - Auto only

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## Compact Packaged Pumping System

### SPECIFICATION

Newton Waterproofing Systems are in partnership with RIBA NBS who publish details of our products and systems within their specification clause library to allow Architects ease of specification through their NBS Plus interface. NBS clauses can be accessed via the technical resources area of the web site where a live NBS Feed is available at [NBS Plus Live Feed](#)

Our website has drawings available for download in [Technical Drawings](#). A selection are also available via [FastrackCAD](#), as well as a range of BIM objects on the [NBS National BIM Library](#)

### OPTIONS

ITEM

Product Code

#### *uPVC Pressure Rated Discharge Pipe*

50 mm Pipe - 2.5 m lengths

PP1

50 mm 90 degree elbows

PP2

50 mm 45 degree elbows

PP3

50 mm female-female sockets

PP4

50 mm Tee

PP5

50 mm wall mount clips

PP6

1½" BSP to 50 mm Hosetail

PP28

1½" BSP to 50 mm Socket

PP43

uPVC Solvent-on Wet 'R Dry - 240ml

G2

uPVC Pipe Primer - 473ml

G3

#### *Alternative Frame and Lid*

Galvanised steel frame recessed lid with 450 x 450 mm opening

TPSL2

Stainless steel edged recessed lid with 450 x 450 mm opening

TPSL3

Brass edged recessed recessed lid with 450 x 450 mm opening

TPSL4

Alulite triple-sealed recessed lid with 450 x 450 mm

TPSL7

#### *General Options*

Wall flange for 63 mm inlet

TP01

Wall flange for 110 mm inlet

TP02

Wall flange for 50 mm diameter vent and conduit pipe

TP03

Hole Cutter for 110 mm wall flange

PA34

Arbor for hole cutter

PA33

### OPERATIONAL MANUAL

Please refer to the Operational Manual which is supplied in paper form with the product, or available from our website.

### TRAINING AND COMPETENCY OF THE USER

Installation should be by competent persons.

Connection of pumps and pump ancillaries to the power supply should be by a qualified and certified person.

Newton Waterproofing Systems reserve the right to update product literature at any time. Please always refer to our [website](#) for the latest versions.