

Pumps, Pumping Systems and Ancillaries

NEWTON NP750

High Performance Clean Water Pump

Rev 5.2 - 13 July 2017

PRODUCT CODE - P5 & P6

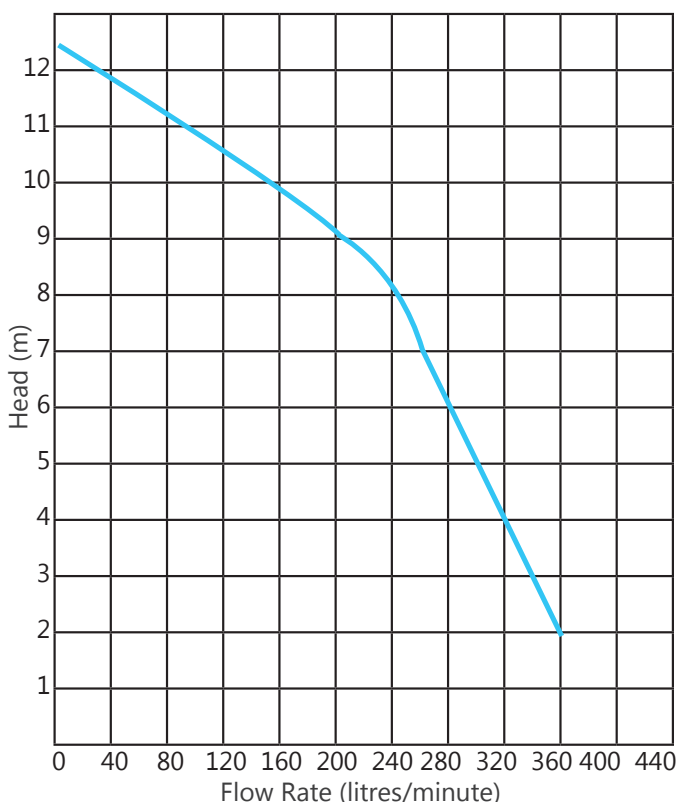
INTRODUCTION

The [Newton NP750](#) is a high performance clean water pump. The NP750 is available as an automatic pump or as a manual pump for use with our pump control systems. The NP750 is available as pump only, or as a key component in our [Newton Titan-Pro](#) packaged pump systems.

It can be used with [Newton Victron Power Inverter 12/3000/125](#) to give continual pumping during power outage. The NP750 is supplied with a 2" female BSP threaded outlet ready for 50mm or 63mm pressure rated pipe and fittings. Pressure pipe, fittings and one-way-valves should be ordered with the pump. When supplied within the Titan-Pro pumping systems, the internal pipe work and one-way-valve are included. Please see the data sheet on the [Titan-Pro White](#) and [Titan-Pro Green](#) for further information. For increased duty in a twin pump system, separate discharge lines should be used.

Newton NP Pumps are supplied with a 3-year manufacturers warranty or a 5-year back-to-base warranty if the pumps are serviced by a Newton approved service engineer.

Two versions of the pump are available: Purchase Code P5 is the automatic self switching pump and Purchase Code P6 is the manual version for use with our pump control systems. For further information please contact our Technical Department.



KEY BENEFITS

- 3 or 5-year warranty - see page 4
- Thermal overload protection against motor burnout
- Non-clogging vortex impeller
- Protection against motor burnouts due to a locked impeller
- Double mechanical seals ensure increased durability against particle abrasion and wear
- Anti-airlock impellor housing ensures that the pump is able to remove trapped air even when the sump was previously dry
- High performance and efficiency, even with a low current
- Auto model has a unique vertical float that allows complete adjustment of the start and stop heights
- Continued pumping even during power cuts when used with Newton 3000W Power Converters - see page 3

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TECHNICAL DATA

Features	Result	Units
Pump Design	Vortex	
Outlet	50	mm
Max Soft Solids Handling	35	mm
Recommended Discharge Pipe	63	mm
Max Pumping Head	12.5	m
Max Flow Rate	360	litres/minute
Flow Rate at 4m Head	320	litres/minute
Pump Switching	Automatic by pump float	
Float Switch	Fully adjustable vertical operation	
Pump Start Level	Fully adjustable	
Lowest or Stop Water Level	115	mm
Length	236	mm
Width	173	mm
Height	380	mm
Weight	8.5	kg
Clean Water Pumping	Yes	
Effluent Pumping	No	
Sewage Pumping	No	
Fluid Temperature Range	0 to 40	°C
Power Supply	Single Phase	
Motor Output	750	W
Amps (Starting)	28.0	
Amps (Running)	6.7	
Body Material	SUS304 & Glassfibre resin	
Shaft Material	Stainless Steel SUS304	
Primary Mechanical Seals	Silicon Carbide on Ceramic	

TYPICAL APPLICATIONS

Primarily designed to be used with Newton sump systems for the removal of ground water collected by the [Newton System 500](#) basement waterproofing system, Newton NP750 can also be used for the removal of water from:

- Flooded basements and cellars
- Light-wells
- Surface drainage collection vessels
- Reservoirs and water holding vessels

INSTALLATION INSTRUCTIONS

Please see pump installation sheet supplied within pump packaging (also available from our website).

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](#)

PACKAGING & HANDLING

Pumps are supplied in reinforced and protective cardboard boxes. Please handle with care.

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ELECTRICAL SUPPLY

The Newton NP750 requires a single phase 230V AC power supply. It is advisable that all pumps are connected to their own individual power supply directly from the consumer board so that each of the pumps does not share a consumer board supply with the other pump or with any other electrical circuit or device. In reality, this is normally only achievable with new build properties or where fundamental refurbishment of the whole property or the electrical supply is to be undertaken. Where it is not planned or possible to have each pump connected to a separate supply from the consumer board, it is preferable that each pump is supplied from a separate circuit. If this is not possible, each pump should be connected to a separate fused and switched spur or socket.

Each separate circuit should have its own RCD protection as required by the 17th Edition Wiring Regulations. The RCD should be correctly sized at 30mA so as not to trip during normal pump start or pump run parameters.

It is preferable for the pumps to be wired to the rear of a switched spur. The spur should be switched and have a neon light confirming the on position. Pumps may be plugged into wall sockets and again these should be switched and have neon light notification of the on position. It is recommended that the spur or socket have a label confirming that the switch must not be switched off unless in an emergency.

The spur or socket should be fitted with a 13 amp fuse.

The spur or socket should be located in direct eye sight line of the sump and to the wall closest to the sump so that in an emergency it is obvious which switch will turn off the pumps.

SUPPLIED PIPE AND PIPE FITTINGS

The Newton NP750 is supplied with a female 2" BSP thread ready to receive pressure rated pipe and pipe fittings. 50mm or 63mm (recommended) pressure rated pipes are suitable. The NP750 is not supplied with a one-way-valve and so the valve, if required, must be ordered when the pump is purchased. The one-way-valve, pressure rated pipe and pipe fittings should be ordered with the pump. Please see pipe and valve options and pipe fittings below.

PIPE & VALVE OPTIONS

Adaption to female socket ready for 50mm pressure rated pipe - Newton purchase code - PP33

50mm Cone Valve for use with 50mm pressure rated valve - Newton purchase code - V2

Adaption to female socket ready for 63mm pressure rated pipe - Newton purchase code - PP44

63mm Cone Valve for use with 63mm pressure rated valve - Newton purchase code - V8

uPVC PRESSURE RATED PIPE AND FITTINGS

50mm Pipe - 2.5m lengths - Newton Code PP1

50mm 90 degree elbows - Newton Code PP2

50mm 45 degree elbows - Newton Code PP3

50mm female-female sockets - Newton Code PP4

50mm Tee - Newton Code PP5

50mm wall mount clips - Newton Code PP6

1½" BSP to 50mm Hosetail - Newton Code PP28

1½" BSP to 50mm Socket - Newton Code PP43

63mm Pipe - 2.5m lengths - Newton Code PP10

63mm 90 degree elbows - Newton Code PP11

63mm 45 degree elbows - Newton Code PP12

63mm female-female sockets - Newton Code PP13

63mm Tee - Newton Code PP14

63mm wall mount clips - Newton Code PP15

uPVC Solvent - 0.5 litre - Newton Code G1

uPVC Solvent - Wet 'R Dry - 240 ml - Newton Code G2

uPVC Pipe Primer - 473 ml - Newton Code G3

ANCILLARY OPTIONS

Battery back up - Newton Victron Power Inverter 12/3000/125 - Newton Code BB3

[High Water Level Alarm](#) - Newton Code PA50

Text & Speech [Dialer](#) for PA50 Alarm - Newton Code PA5

[Control Panel-Pro](#) - sophisticated pump control and monitoring - Newton Code CP2 (Manual version only)

LIMITATIONS

Not suitable for:

1. Effluent or Washing machine waste (use [NP400W](#) or [SP750 Cutter](#))
2. Sewage (Use SP750 Cutter)
3. Pumping of water above 40°C. The NP750 can be used to excavate hot water from boiler leaks etc., but only for a maximum of 5 minutes pumping in one hour. (for continuous pumping of hot water use hot water capable pumps - please contact Newton Waterproofing Systems for further information)
4. Water with pH value above 10 or below 4 (use pumps suitable for corrosive water - please contact Newton Waterproofing Systems for further information)
5. Sea water (use sea water pumps - please contact Newton Waterproofing Systems for further information)

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SERVICING

Newton pumps should be serviced by trained and qualified pump engineers only. It is recommended that pumps are serviced within 6 months of installation and then at service engineers discretion, but with at least one inspection or service every 12 months. Please call Newton Waterproofing Systems for an approved service engineer in your area.

WARRANTY

Newton NP Pumps are supplied with a 3-year manufacturers warranty from the proven date of installation or the date of purchase if this cannot be verified. A 5-year warranty is available if the pumps are serviced at intervals agreed by a Newton approved service engineer. In all cases, the warranty is 'back-to-base'. Newton Waterproofing Systems have a returns policy and any issues regarding pumps under warranty should in the first instance be referred to our Head Office by contacting 01732 360 095. Please see our

Terms & Conditions of Sale for further information.

HEALTH & SAFETY

Product should only be used as directed. Pumps contain lubricating oil. We always recommend that the Material Safety Data Sheet (MSDS) is carefully read prior to use of the pump. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The MSDS is available upon request from Newton Waterproofing Systems or online via our website. Please see contact details below.

STORAGE

Store in dry conditions at temperatures between 5°C and 35°C. Do not expose to freezing conditions.

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

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