

Newton NP750

High Performance Clean Water Pump

Rev 5.2 - 11 April 2023

Code - P5 & P6

INTRODUCTION

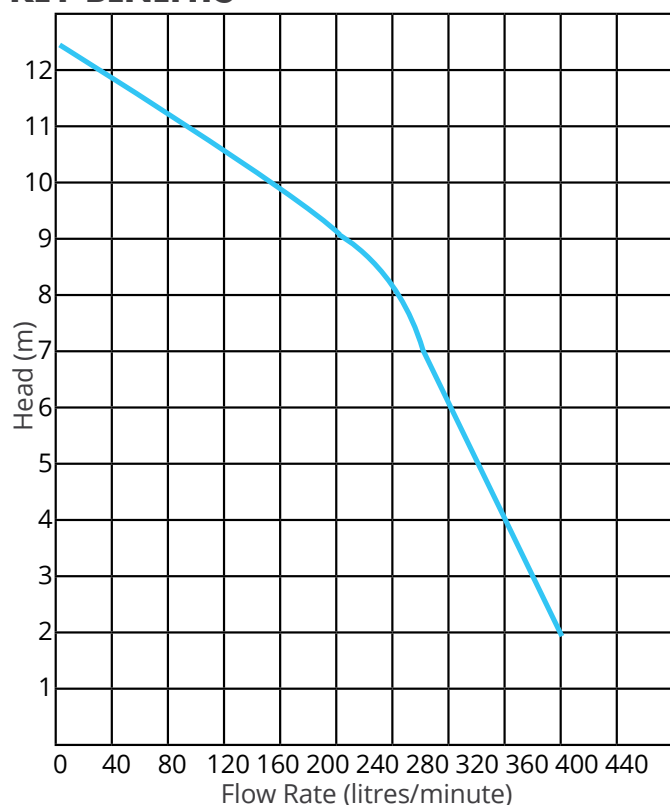
The [Newton NP750](#) is a high performance clean water pump. The NP750 is available as an automatic pump or as a manual pump for use with our pump control systems. The NP750 is available as pump only, or as a key component in our [Newton Titan-Pro](#) packaged pump systems.

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 impeller 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 used with Newton 3000W Power Converters - see page 3 when

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TECHNICAL DATA

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

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 work in partnership with RIBA NBS and [NBS Source](#), which integrates into project workflows, providing all product data from Newton's NBS BIM Objects, NBS Plus Clauses and RIBA Product Selector into one single source of product information.

NBS Source also hosts a large selection of Newton [case studies](#), as well as product [literature and certifications](#). A wide range of drawings are available [on our website](#).

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

[NEX Series CE12 Duplex Control Panel](#) - sophisticated pump control and monitoring - Newton Code CP3 (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 Safety Data Sheet (SDS) 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.