NEW HADEN PUMPS

P U M P I N G S O L U T I O N S

To: Environmental Engineering Partnership

West Wycombe

Attn: Colin Fox

E-mail: CFox@eep.co.uk
Tel: 01494 464544

Dear Colin

Quote P-185991 A0

Date:	25 April 2022
Page(s):	
Your Ref:	
Contact:	Paul Warman
Direct Tel:	**01245 392147**
	Mobile 07774 488832
E-mail:	South@NHPumps.com

REF: New End, Hampstead Village, London NW3

Reference your recent email enquiry, I now offer a quotation for the package pump sets you require on the above development.

For all of the sets, I offer GRP chambers with duty/standby pumps, level controls and wall mounted IP54 sheet steel auto-changeover control panels

The chambers will be delivered to site fitted out with pipework and valves and duckfoot bends and guiderail for the larger pumps and delivered to site for installation by others.

The above is fitted out in the GRP chamber and delivered to site for installation by others.

Once the chambers have been cast into the ground and when site is ready the pumps, controls and panels will then be delivered to site and installed by our engineers.

Note that we do not unload at site or take the equipment to point of installation.

Full details are attached but please contact me if you require anything further.

Regards

Paul Warman
New Haden Pumps Ltd.

Optional Extras

- **Alertpac PTSN – Dial out telemetry system.**
  Note it is the client's responsibility to provide and maintain the BT line to the Alertpac system. Also, the price shown is for the unit to in installed at the time of the pump installation, any retro fitting return visit will be charged extra. **Price - £517.00 + VAT**

- **Annual Service Visit**
  One visit per year to service the pumps and controls by our service team
  Price - £595.00 + VAT

REF: New End, Hampstead Village, London NW3

INSTALLATION TEAM:
Our installation team consists of two operatives, having CSCS accreditation and confined space training (City and Guilds) along with all necessary skill training for the task. If there is a requirement to enter a confined space the operative will have an escape set and will be harnessed to the man riding winch. The top man will not be harnessed. If there is a site requirement for additional man power or for the top man to be harnessed there will be an additional charge.

CLIENTS RESPONSIBILITY:
Unloading at site.
Movement of materials to work place.
Cable containment between pump chamber and control panel.
Provision of mains power to the panel.
Final connection to discharge main.

COMMISSIONING:
We include commissioning at time of installation.
Power will be required to our control panels at that time to enable our engineers to perform that task.

If a return visit is required, this will be chargeable.

Despatch: To be confirmed at time of order. If a GRP chamber required, it is dependent on the completion of manufacturing data sheet with full and final details of pipe inverts and chamber depth. Chambers usually 3-4 weeks from order and completed data sheets.

Validity: All prices to be confirmed at the time of order.

Carriage: Paid to site.

Terms: Strictly net cash 30 days, subject to normal credit procedure as appropriate.

VAT: Will be added at the appropriate rate at the time of invoicing.

Misc: The offer is based on New Haden Pumps Ltd. Standard Terms and Conditions of Sale (available on request). Prices are strictly nett, no discounts or retentions included. If MCD are to be applied to this order then they should be added to the order value.

TENDER FOR A COMPAC 'GRP' PACKAGED PUMP STATION WITH SUBMERSIBLE MACERATING PUMPS

MOUNTING: Wet well / Guiderail

REF: New End, Hampstead Village, London NW3

FOUL SET

Reference	:	COMPAC-M 1200/ATC20W
No. of Pumps	:	2
Pump Type	:	Submersible macerating
Capacity per Pump	:	3 l/s
Head Generated	:	4 metres
Max. Solids Capacity	:	Macerated to 8mm
Impeller Design	:	Cutter/Vortex
Motor Rating kW	:	1.5
Motor Speed rpm	:	2900
Supply Voltage	:	1-50-240 SINGLE PHASE
Full Load Current	:	9.5 amps
Method of Starting	:	DOL
Level Controls	:	Stainless steel electrode rods
Control Sequence	:	Duty/standby
Length of Cable	:	10 metres. Other lengths available. Please advise
Depth of Sump	:	1800mm or increments to suit site conditions
Pump Outlet Branch	:	50mm
Pipes and Valves	:	50mm
Final Discharge	:	50mm
Pipe Materials	:	Galvanised steel
GRP Chamber	:	1200mm diameter
Installation	:	Included
Commissioning	:	Included at time of installation. Return visit extra
Access Cover & Frame	:	Not included. 600 x 600mm clear opening required

GRP chamber with duckfoot bends, guiderail, valves and pipes fitted out. Access opening of 600 x 600mm required. Incoming stub pipes, vent, cable duct in positions to suit and discharge pipe fixed as shown.

Duplex submersible macerating sewage pumps, single phase motors, lifting chain, level electrodes, 10 metres of cable and an IP54 sheet steel auto-changeover control panel designed for wall mounting indoors.

All delivered to site with pumps and controls installed by our engineers.

PRICE: £7,994.00 plus VAT

SPECIFICATION FOR A COMPAC 'GRP' PACKAGED PUMP STATION FITTED WITH SUBMERSIBLE MACERATING PUMPS

CHAMBER: Vertical, cylindrical, GRP, watertight pump chamber with sewer inlet and discharge connections as required in accordance with data sheet attached; the unit is complete with cable and chain suspension hooks. The chamber is fabricated from GRP laminations, reinforced in all critical areas. The nominal wall thickness is 7 mm throughout with reinforcing ribs as necessary giving adequate hoop strength and stability. Reinforcements are bonded into the base to accept the pump and duckfoot bend where applicable and on units over 3 metres depth reinforcing ribs are bonded into the sides.

PUMP: Single stage fully submersible surface water or sewage pump with cast iron casing and impeller. The impeller is of vortex design with an external cutting mechanism securely locked to the extended motor shaft and capable of handling solids as detailed.

SEAL CHAMBER: Disposed between pump and motor and filled with oil retained by opposed seals. The primary seal has double silicon carbide faces.

MOTOR: Squirrel cage motor contained in a watertight cast iron housing. The rotor shaft rotates in deep groove ball bearings. SINGLE PHASE

CABLE: Suitable length(s) of multi-core flexible cable connected to motor windings through a watertight sealed gland.

GUIDE RAIL SYSTEM: Low-level self-locating quick release coupling combined with 90^{o} duckfoot bend having guide rail location socket.

GUIDE RAILS: Galvanised guide rail(s) from head of sump to base bend, complete with upper location bracket.

CHAIN: Suitable capacity galvanised lifting chain complete with shackles.

VALVES: Single gate valve in horizontal pipe and non-return valves in each discharge leg.

PIPES: Vertical riser and horizontal section in materials as data section. Multi-pump systems include a manifold giving a single final connection to suit the rising main.

PANEL: IP54 Single section multi-motor control panel of sheet steel dust and damp protecting RAL7035 light grey polyester powder coat finished enclosure for indoor wall or backboard mounting, with front access, necessary labels, numbered terminals and incorporating
SINGLE PHASE

1 - Door interlocked isolator
2 - Sets of motor fuses with HRC fuse links
1 - Set control fuses and links
1 - 230V/24V control transformer
2 - DOL Motor starters incorporating thermal overload relay
2 - Hand-off-Auto selector switches
2 - Pump running indicator lamps
2 - Pump tripped indicator lamps
1 - High level indicator lamp
1 - Power available lamp
1 - High level buzzer and mute button
1 - Set of volt free contacts (high level, pump No1 and No2 overload tripped)
1 - Stepping relay for duty pump rotation
1 - Low voltage level control

LEVEL CONTROLS: Level electrodes with stainless steel electrode rods, holder, sensitivity controller and bracket with a suitable length of cable.

TENDER FOR A COMPAC 'GRP' PACKAGED PUMP STATION WITH SUBMERSIBLE SURFACE WATER PUMPS

MOUNTING: Wet well / Guiderail

REF: New End, Hampstead Village, London NW3

LIGHTWELL SET

Reference	:	COMPAC-R 1200/ATP48
No. of Pumps	:	2
Pump Type	:	ATP48V 15/2W
Capacity per Pump	:	4 l/s
Head Generated	:	4 metres
Max. Solids Capacity	:	50mm
Impeller Design	:	Vortex
Motor Rating kW	:	1.1
Motor Speed rpm	:	2900
Supply Voltage	:	1-50-240 SINGLE PHASE
Full Load Current	:	6.5 amps
Method of Starting	:	DOL
Level Controls	:	Level Floats
Control Sequence	:	Duty/standby
Length of Cable	:	10 metres. Other lengths available. Please advise
Depth of Sump	:	3500mm or increments to suit site conditions
Pump Outlet Branch	:	50mm
Pipes and Valves	:	50mm
Final Discharge	:	50mm
Pipe Materials	:	Galvanised steel
GRP Chamber	:	1200mm diameter
Installation	:	Included
Commissioning	:	Included at time of installation. Return visit extra
Access Cover & Frame	:	Not included. 600 x 600mm clear opening required

GRP chamber with duckfoot bends, guiderail, valves and pipes fitted out. Access opening of 600 x 600mm required. Incoming stub pipes, vent, cable duct in positions to suit and discharge pipe fixed as shown.

Duplex submersible surface water pumps, single phase motors, lifting chain, level floats, 10 metres of cable and an IP54 sheet steel auto-changeover control panel designed for wall mounting indoors.

All delivered to site with pumps and controls installed by our engineers.

PRICE: £7,541.00 plus VAT

SPECIFICATION FOR A COMPAC 'GRP' PACKAGED PUMP STATION FITTED WITH SURFACE WATER PUMPS

CHAMBER: Vertical, cylindrical, GRP, watertight pump chamber with sewer inlet and discharge connections as required in accordance with data sheet attached; the unit is complete with cable and chain suspension hooks. The chamber is fabricated from GRP laminations, reinforced in all critical areas. The nominal wall thickness is 7 mm throughout with reinforcing ribs as necessary giving adequate hoop strength and stability. Reinforcements are bonded into the base to accept the pump and duckfoot bend where applicable and on units over 3 metres depth reinforcing ribs are bonded into the sides.

PUMP: Single stage fully submersible surface water with cast iron casing and impeller. The impeller is of vortex design securely locked to the extended motor shaft and capable of handling solids as detailed.

SEAL CHAMBER: Disposed between pump and motor and filled with oil retained by opposed seals. The primary seal has double silicon carbide faces.

MOTOR: Squirrel cage motor contained in a watertight cast iron housing. The rotor shaft rotates in deep groove ball bearings. SINGLE PHASE

CABLE: Suitable length(s) of multi-core flexible cable connected to motor windings through a watertight sealed gland.

GUIDE RAIL SYSTEM: Low-level self-locating quick release coupling combined with 90^{o} duckfoot bend having guide rail location socket.

GUIDE RAILS: Galvanised guide rail(s) from head of sump to base bend, complete with upper location bracket.

CHAIN: Suitable capacity galvanised lifting chain complete with shackles.

VALVES: Single gate valve in horizontal pipe and non-return valves in each discharge leg.

PIPES: Vertical riser and horizontal section in materials as data section. Multi-pump systems include a manifold giving a single final connection to suit the rising main.

PANEL: IP54 Single section multi-motor control panel of sheet steel dust and damp protecting RAL7035 light grey polyester powder coat finished enclosure for indoor wall or backboard mounting, with front access, necessary labels, numbered terminals and incorporating
SINGLE PHASE

1 - Door interlocked isolator
2 - Sets of motor fuses with HRC fuse links
1 - Set control fuses and links
1 - 230V/24V control transformer
2 - DOL Motor starters incorporating thermal overload relay
2 - Hand-off-Auto selector switches
2 - Pump running indicator lamps
2 - Pump tripped indicator lamps
1 - High level indicator lamp
1 - Power available lamp
1 - High level buzzer and mute button
1 - Set of volt free contacts (high level, pump No1 and No2 overload tripped)
1 - Stepping relay for duty pump rotation
1 - Low voltage level control

LEVEL CONTROLS: Encapsulated non-mercury float switches with suspension cable and weight, complete with suspension/mounting bracket.

TENDER FOR A COMPAC 'GRP' PACKAGED RETENTION CHAMBER WITH SUBMERSIBLE SURFACE WATER PUMPS & FILTER

MOUNTING: Wet well / Free Standing

REF: New End, Hampstead Village, London NW3

RINWATER RETENTION SET

Reference	:	COMPAC-RH 1800/NH60W
No. of Pumps	:	2
Pump Type	:	NH60W
Capacity per Pump	:	2 l/s
Head Generated	:	5 metres
Max. Solids Capacity	:	10mm
Impeller Design	:	Vortex
Motor Rating kW	:	0.42
Motor Speed rpm	:	2900
Supply Voltage	:	1-50-240 SINGLE PHASE
Full Load Current	:	4 amps
Method of Starting	:	DOL
Level Controls	:	Level Floats
Control Sequence	:	Duty/standby
Length of Cable	:	10 metres. Other lengths available. Please advise
Chamber Size	:	1800mm diameter x 5000mm long c/w two 1000mm diameter x 1500mm high turrets
Pump Outlet Branch	:	32mm
Pipes and Valves	:	40mm
Final Discharge	:	40mm
Pipe Materials	:	Galvanised steel
GRP Fit-Out	:	Duty/standby pump set below turret 2. Inlet Patronen leaf filter set inside turret 1 on incoming rainwater pipe
Installation	:	Included
Commissioning	:	Included at time of installation. Return visit extra
Access Cover & Frame	:	Not included. 600 x 600mm clear opening required

Horizontal GRP rainwater retention chamber 1800mm diameter x 5000mm long with two turrets, inlet rainwater leaf filter, duty/standby free standing discharge pumps, single phase motors, level floats and a wall mounted IP54 sheet stell control panel

All delivered to site with pumps and controls installed by our engineers after chamber cast-in by others.

PRICE: £11,588.00 plus VAT

SPECIFICATION FOR A COMPAC 'GRP' PACKAGED RETENTION CHAMBER WITH SUBMERSIBLE SURFACE WATER PUMPS & FILTER

CHAMBER: Horizontal, cylindrical, GRP, watertight pump chamber with inlet and discharge connections as required in accordance with data sheet. The chamber is fabricated from GRP laminations, reinforced in all critical areas. The nominal wall thickness is 8 mm throughout with reinforcing ribs as necessary giving adequate hoop strength and stability.

Two Turrets fitted with duty/standby pump discharge turret and a leaf filter fitted in the inlet turret.

PUMP: Single stage fully submersible free standing surface water pump. The impeller is of vortex design securely locked to the extended motor shaft and capable of handling solids as detailed.

SEAL CHAMBER: Disposed between pump and motor with opposed seals. The primary seal has double silicon carbide faces.

MOTOR: Squirrel cage motor contained in a watertight cast iron housing. The rotor shaft rotates in deep groove ball bearings. SINGLE PHASE

CABLE: Suitable length(s) of multi-core flexible cable connected to motor windings through a watertight sealed gland.

CHAIN: Suitable capacity galvanised lifting chain complete with shackles.

VALVES: Single gate valve in horizontal pipe and non-return valves in each discharge leg.

PIPES: Vertical riser and horizontal section in materials as data section. Multi-pump systems include a manifold giving a single final connection to suit the rising main.

PANEL: IP54 Single section multi-motor control panel of sheet steel dust and damp protecting RAL7035 light grey polyester powder coat finished enclosure for indoor wall or backboard mounting, with front access, necessary labels, numbered terminals and incorporating

SINGLE PHASE
1 - Door interlocked isolator
2 - Sets of motor fuses with HRC fuse links
1 - Set control fuses and links
1 - 230V/24V control transformer
2 - DOL Motor starters incorporating thermal overload relay
2 - Hand-off-Auto selector switches
2 - Pump running indicator lamps
2 - Pump tripped indicator lamps
1 - High level indicator lamp
1 - Power available lamp
1 - High level buzzer and mute button
1 - Set of volt free contacts (high level, pump No1 and No2 overload tripped)
1 - Stepping relay for duty pump rotation
1 - Low voltage level control

LEVEL CONTROLS: Encapsulated non-mercury float switches with suspension cable and weight, complete with suspension/mounting bracket.

PACKAGED PUMP STATION/PUMP SUMP/STORAGE TANK INSTALLATION PROCEDURE

NOTICE
Please read and understand the following instructions in full before commencing the installation. These instructions are provided as a general guide and do not allow for non-standard site specific issues which may arise. Failure to adhere to these instructions may comprise the structural or operational integrity of the product, which will be deemed outside the responsibility of New Haden Pumps Limited.

DELIVERY
THE CONTRACTOR IS RESPONSIBLE FOR OFFLOADING. The following instructions are offered for guidance only. New Haden Pumps Limited cannot accept any responsibility for incorrect off-loading or installation.

LIFTING EYES ARE PROVIDED TO AID TRANSPORTATION TO SITE AND ARE NOT TO BE USED FOR THE MOVEMENT OFF THE DELIVERY VEHICLE OR AROUND THE SITE. FOR CERTAIN SIZE CHAMBERS THE LIFTING EYES MAY BE USED TO RAISE THE CHAMBER TO THE VERTICAL IF REQUIRED-CHECK WITH NHP BEFORE CARRYING OUT THIS TASK

Off-load the unit using suitable mechanical equipment operated by trained personnel.

- Only lift the unit with certified webbing straps-USE SPREADER BEAMS WHERE REQUIRED
- CHECK THE GRAVITATIONAL BALANCE OF THE LIFT BEFORE COMMENCING MOVEMENT/POSITIONING OF THE TANK
- Do not wrap chains around the unit
- Do not lift the tank if it contains any water
- Do not subject the tank to sharp impacts
- Do check that all items delivered correspond with the delivery note

During storage on site the tank should be placed on level ground avoiding all possibility of accidental damage. The tank should be tied down during periods of high winds. If the tank does not contain stabilising feet then it should be chocked with suitable materials.
IF IN DOUBT WITH REGARD TO ANY ASPECT OF THESE INSTRUCTIONS PLEASE CALL THE NUMBER LISTED BELOW.

The installer must ensure that the complete tank is supported i.e. concrete must be placed under the base of vertical tanks/belly of horizontal tanks. It is imperative to ensure that concrete is totally supporting the tank structure-no voids. A VOID WILL ALLOW WATER TO BREACH THE BASE/CHAMBER AND WILL CAUSE DAMAGE TO THE TANK

1. Excavate to the tank dimensions allowing a further 225mm minimum to all sides and 300mm to the base. Level the base of the excavation. The excavation should be carried out in accordance with BS 8000 – 1:1989 Workmanship on building sites. The excavation should be prepared such that there is no risk of puncture or any other damage to the tank structure during installation.
2. In wet ground conditions it is important that the excavation is kept dry throughout the installation and until the concrete surround has cured (normally seven days). The use of pumps and pump sumps is recommended in cases of high water tables (SEE NOTE) de-watering equipment may be required.
3. Pour the concrete base to a level of 300mm and level. Allow initial set.
4. Lower the tank into position onto wet concrete using slings taking care not to damage any external flanges or pipe work. Ensure correct orientations of the inlet/outlet pipe work and any other connections.
5. Stabilise tank in excavation taking care not to distort unit.
6. Place temporary covers over all tank apertures.

7. Commence back filling with concrete at a maximum of 500mm lifts allowing an initial set before the next pour, at the same time commence charging each chamber of the tank with water such that the levels of concrete and water remain equal. The concrete needs to be evenly distributed around the tank at all times.

DO NOT DISCHARGE CONCRETE DIRECTLY ONTO THE TANK BODY.

8. Ensure the concrete is worked under the tank to prevent voids compact by hand. **Do not use vibrating pokers.** Over compaction of the concrete may result in damage or distortion of the tank structure.

9. Connect and seal pipe work. NB: Tanks supplied with loose turret(s). The turret(s) should be fitted into position and a waterproof seal made between the mating surfaces with a proprietary waterproof sealant (not of NHP supply). In areas of high water table (SEE NOTE), it may be necessary to wrap suitable tape or equivalent around the joint to prevent water ingress.
It is the responsibility of the installer to ensure a watertight seal.

10. Back fill excavation.

NOTE

a) In areas where very high water tables are present CHECK WITH NHP TO CONFIRM THAT THE TANK HAS BEEN ORDERED/MANUFACTURED TO SUIT THE SITE CONDITIONS.

b) If installed in areas of traffic or if superimposed loadings will be applied above the tank, a suitably designed reinforced concrete slab should be constructed to dissipate any of these loadings from the unit. A suitably compressible material will be required between the slab and the unit if the slab is constructed directly above the tank. THE TANK IS NOT MANUFACTURED TO ACCEPT MORE THAN A DIRECT PEDESTRIAN LOADING.

INSTALLATION NOTES

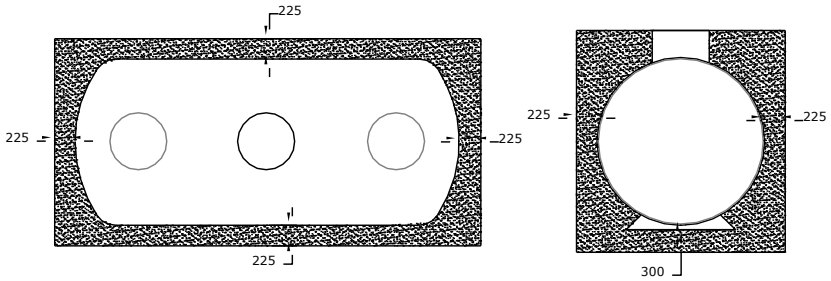
All installation procedures should be carried out observing the requirements of the **Health and Safety at Work Act** and involving good building practice.

During installation the following will be required.

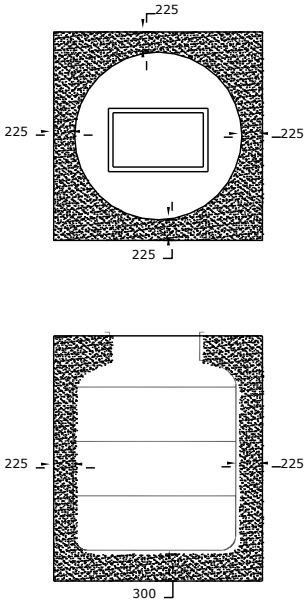
1) Normal construction equipment and plant
2) Concrete to 20 Newton's/mm and 30-55 slump-OR AS RECOMMENDED BY THE CONSULTANT/DESIGN ENGINEER
3) An adequate supply of water capable of keeping up with the rate of concrete back-filling
4) Pumping equipment where necessary

THESE NOTES ARE FOR GUIDANCE ONLY. NHP ARE NOT CONTRACTED FOR THE OFFLOADING OR INSTALLATION ACTIVITIES ASSOCIATED WITH THE PRODUCT. IT IS THE RESPONSIBILITY OF THE CLIENT TO ENSURE SAFE AND PROPER OFFLOADING AND INSTALLATION OF THE PRODUCT.

If further information is required please do not hesitate to contact the technical department of New Haden Pumps Ltd.



HORIZONTAL INSTALLATION



VERTICAL INSTALLATION

New Haden Pumps
Service Division

Always at your service

New Haden Pumps Limited offers a range of services from emergency breakdown, regular maintenance contracts, repairs and spares as well as individually tailored packages.

Our emergency service aims to repair any faults on site wherever we can with the minimum disruption to you and your business. If we are unable to carry out running repairs our engineers and Service Division will use their expertise to find the best solution to the problem.

In addition to our workshop repair facility we are pleased to offer a comprehensive range of spare parts from our portfolio of products.

To keep your pumps and related pumping equipment working at optimum performance, we would recommend regular servicing. A service agreement can be taken out for either newly installed equipment or for items out of their warranty period.

- **Breakdown**
- **Servicing**
- **Maintenance**
- **Repairs**
- **Spares**
- **Tailormade Packages**

For further information
on our all of our services,
please give us a call on:

01538 757900

New Haden Pumps Limited

Draycott Cross Road
Cheadle
Stoke on Trent
Staffordshire
ST10 2NW

email: service@nhpumps.com

www.nhpumps.com