



Water Engineering in Motion

Bespoke Water Pumping Equipment

Stainless Steel Fabrication



KGN Pillinger work in partnership with the water, industrial and building services industries throughout the world to provide complete engineering solutions and support for all your water pumping requirements.

Our client list includes the MOD, UK water utilities and leading construction and development companies.

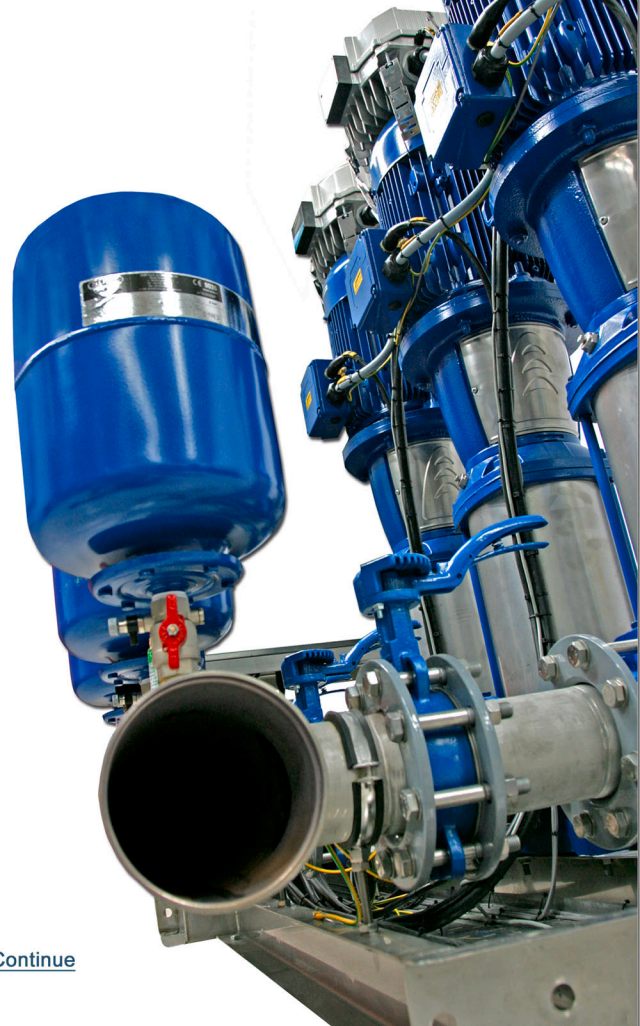


Project Showcase
In association with



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Maximise valuable floor space within a building development and avoid planning consent with the KGN UPOD Underground Pumping Station.

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KGN
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WRAS
WATER RESOURCES AUTHORITY

UPOD
underground plant rooms

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This UPOD was designed, manufactured and commissioned by KGN Pillingier to consolidate the water distribution requirements at Lime Grove Mews, Hammersmith, a prestigious new development of townhouses from St James,

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KGN PILLINGIER
WRAS
PERFECT PRODUCT
UPOD
underground plant rooms



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UPOD



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www.berkeleygroup.com

The KGN UPOD can be sited anywhere below ground including car parks, courtyards and site access roads.

The primary functions of the UPOD at Lime Grove Mews is to supply the domestic water, fire sprinkler system and irrigation needs of the development, including a 'Living Wall'.

The UPOD also houses the control panels for the transfer of surface and waste water.

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Project specification



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UPOD

Main Booster Set

System Requirements = 11 l/sec @ 4.5 BAR
3 x Lowara SV 1505 Vertical Multistage
Pumps c/w 4kW 3 phase Hydrovar VSD Motors
Buffer vessel 1x24 ltr
Break Tank Actual Capacity 2x2000 ltr

Irrigation Booster set

System Requirements = 36 l/min @ 4 BAR
1 x Lowara 1sv11 Vertical Multistage
Pump c/w 0.55kW 3 phase DOL Motor
Buffer vessel 1x8 ltr
Break Tank Actual Capacity 280 ltr

Sprinkler Booster Set

System Requirements = 4 l/sec @ 5 BAR
1 x Lowara Hydroquench 3000

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The project consists of a purpose built underground packaged plant room, consisting of a Watertight GRP underground tank housing (external dimensions 5,150 x 2,700 x 2,580mm high) with a 1,000 x 1,000mm clear open access cover and frame with double seal and screw lockdown facility.

The base is constructed from GRP encapsulated steel support runners and wall stiffeners around the housing allow a dry lean mix backfill to be poured around the housing.

The UPOD contains a 4000 ltr dual compartment break tank, the Main Booster Set, the Irrigation Water booster Set, the Sprinkler Booster Pump and all the associated control panels to enable the operation and monitoring of the equipment.

The UPOD also houses the control panels for the transfer of surface and waste water.



Within the UPOD is a sump (complete with a pump and level electrodes), fluorescent lighting with emergency back-up in case of power loss, 2 ventilation fans (1 supply + 1 extract) and a tubular heater.

The 4000 ltr break tank is divided into two sections, each c/w its own individual AB Hygienic air gap ball valve chamber and 2 inch inlet ball valve.

A 3 inch electrically actuated motorised butterfly valve (c/w open and closed indication limit switches) is located on the incoming main water supply, and will shut down the water supply into the UPOD in the event of a power failure or if the level in the sump reaches the 'High' probe and enables the sump pump.

Also fitted into the water main line is a double check valve to prevent back contamination of the water main.

Prior to the feed to the main tank ball valves is a tee to supply the Irrigation Water Booster Set.

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