

27/09/2017



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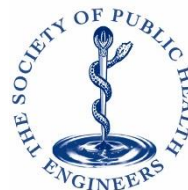
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**London- (project 2020) "17 Charterhouse Street & Saffron Hill"**

Project ref.: 4253-17

Prepared for: GDM Building Services & Environmental Engineers

Prepared by: Dario Pellegrini



27/09/2017

Ian Jackson  
GDM Building Services & Environmental Engineers  
27-29 Cursitor Street  
London, EC4A 1LT

Dear Ian Jackson,

**Combined Rainwater Harvesting and Greywater Recycling Specification & Quotation**

<b>Project</b>	<b>London- 17 Charterhouse Street (project 2020)</b>	
<b>Project Number</b>	<b>4253-17</b>	
<b>Quotation Number</b>	<b>DOCQ4156</b>	
<b>Contact</b>	<b>Ian Jackson – Senior Public Health Engineer</b>	
<b>Contact Details</b>	<b>ian.jackson@gdmp.co.uk</b>	<b>020 7902 0160</b>
<b>Should you have any queries regarding this quote please contact Matt Tickle on (07973) 253 669</b>		

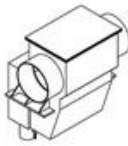
We thank you for your recent enquiry and have pleasure in writing with our Specification and Quotation for the supply and delivery of a suitable Aquality Combined Rainwater Harvesting and Greywater Recycling System to meet the project's requirements.

Our industry leading product range has been designed to ensure a quick, simple and cost effective installation process on site and ensure a minimal space requirement within the designated installation area.

For specification sheets please contact us and we will forward them onto you. Please do not hesitate to contact us with further questions or to arrange a meeting with one of our technical managers who can assist at design, purchasing or installation stage.

## Specification & Quotation

Part Number	Qty	Description
<b>17 charterhouse Block</b>		
G17302	1	<p><b>Aqua-Recycling-Control 80B+</b></p> <p>Grey water treatment system package using Bio-Membrane-Technology. For treatment of low-contaminated greywater from bathtubs, showers and hand wash basins to provide colourless, odourless high-quality non-potable water for a local re-use (e.g. for toilet flushing, washing machines, household cleaning purposes, irrigation or industrial applications). Daily greywater treatment capacity of up to 2,000 litres.</p> <p>ISB-Membrane-Bio-Reactor Greywater Treatment System, equipped with:</p> <ol style="list-style-type: none"> <li>1) Coarse filter for mechanical pre-treatment to remove all undissolved water contents (e.g. textile fluff, hair); stainless-steel filter plate with 0.7mm slot size; high-quality PE-chassis; with automated backwash function which includes water spray nozzles, ½" solenoid valve and controls.</li> <li>2) Greywater storage tank to equilibrate the quantity and quality of raw greywater. Made of grey high-quality PE HD, equipped with float switch, submerged circulation pump with 2m PVC flex tube, PVC drain 1½".</li> <li>3) ISB-MBR-tank containing eco-friendly membrane bioreactor. Tank made of grey high-quality PE-HD, equipped with level sensor, air compressor incl. console and 3m PVC-aerator-flex tube, submerged PES-membrane filter incl. EPDM-tube aerator, stainless-steel chassis, filtrate pump M140 with 2m PVC filtrate flex tube.</li> <li>4) Non-potable water storage tank to balance water supply and demand. Made of grey high-quality PE-HD, level sensor, PVC-drain 1½".</li> <li>5) Automated Aquality-control unit to manage all operating processes, installed in polycarbonate chassis IP 65, with LCD menu, hotkey-function to engage different operating modes (automatic rainwater feed), fill level control, setup menu to adjust settings (filtration, aeration, backwash, fill level calibration), visual malfunction message, power cables to all electrical components 5m.</li> </ol> <p>Technical information:</p> <ul style="list-style-type: none"> <li>- Greywater storage: 2,000 litres (nominal)</li> <li>- Non-potable water storage: 2,000 litres (nominal)</li> <li>- Energy consumption: 1.75 kWh/m<sup>3</sup> non-potable water</li> <li>- Slot size coarse filter: 0.7 mm</li> <li>- Pore size membrane filter: 38 nm (nanometres)</li> <li>- Active membrane surface: 6.25 m<sup>2</sup></li> <li>- Electrical loading: 1x 230V 50Hz 3A (fuse), 400W (excluding Aqua-Control unit)</li> <li>- Approximate floor space required in standard layout: 4.4m x 4m (17.6m<sup>2</sup>)</li> <li>- Minimum room height for membrane maintenance: 2.6m</li> </ul> <p>Standard connection lengths:</p> <ul style="list-style-type: none"> <li>- Cable length between control and tanks: 5m</li> <li>- Compressor hose to ISB-MBR-tank: 5m</li> </ul>

Part Number	Qty	Description
<p data-bbox="220 663 309 689">G11052</p> 	<p data-bbox="395 663 414 689">1</p>	<ul style="list-style-type: none"> <li>- Greywater pump hose to ISB-MBR-tank: 3m</li> <li>- Clear water pump hose between ISB-MBR-tank and non-potable water tank: 3m</li> </ul> <p>Hydraulic connections:</p> <ol style="list-style-type: none"> <li>a. DN 100 greywater inlet from showers / baths / hand-wash basins</li> <li>b. DN 100 greywater overflow to foul water drain (piped)</li> <li>c. 1" non-potable water suction pipe connection</li> <li>d. DN 100 emergency overflow non-potable water storage tank (to floor drain point)</li> <li>e. ½" automatic coarse filter cleaning; flow pressure: 1-6 bar</li> </ol> <p><b>Rainwater filter AWD 3</b></p> <p>Two stage pre-tank rainwater filtration via horizontal and vertical stainless steel filter grid, filtration efficiency up to 99% even during heavy rainfall events.</p> <p>Optionally with automatic non-mechanical rainwater diversion via air cushion effect (see specification sheet).</p> <p>Passive self-cleaning effect via horizontal filter grid and air cushion</p> <p>Filter monitoring and active fully automatic filter cleaning available as optional add-on</p> <p>Minimum height-difference between inlet and overflow connection: 20 mm</p> <p>Installation aboveground indoor/outdoor or below ground (within rainwater storage tank or separate filter manhole)</p> <p>Design Flow Rate: 30 l/s</p> <p>Maximum Collection Flow Rate: 60 l/s</p> <p>Roof Area: up to 2,000 m<sup>2</sup> (based on 0.03 l/s/m<sup>2</sup> max. rainfall intensity)</p>
<p data-bbox="220 1182 309 1209">G11060</p>	<p data-bbox="395 1182 414 1209">2</p>	<p><b>Motorised Diverter Valve DN100</b></p> <p>Wafer-type Butterfly Valve:</p> <ul style="list-style-type: none"> <li>- Absolutely tight sealing with flow in either direction</li> <li>- The valve body and disc are accurately machined which results in low operating torque, long service life and reliability</li> <li>- Triple shaft bearings prevent shaft deflection and guarantee optimum guidance even after many years of operational service</li> <li>- Four flange mounting holes ensure correct valve location</li> <li>- Single flange mounting is possible (please request details from our Technical Department).</li> <li>- Can be installed in any desired position.</li> <li>- Can be disassembled, material-specific recycling possible</li> <li>- End position control with alarm raised if contacts not closed due to blockage or actuator fail</li> </ul> <p>Electric Actuator:</p> <ul style="list-style-type: none"> <li>- Robust aluminium body</li> <li>- Completely ball-bearred worm gear</li> <li>- Safe arresting by self-inhibition</li> <li>- Changeable clutch nuts for mounting on different shaft ends</li> <li>- Mechanical position indicator disc for an optical control of the valve's position</li> <li>- Motor with thermic winding protection switch</li> </ul>

Part Number	Qty	Description
G13355	1	<p>- Hand wheel enables immediate hand emergency operation if necessary</p> <p><b>Control wiring for Motorised Diverter Valve via 2500</b></p> <ul style="list-style-type: none"> <li>· Feature in combination with Aqua-Control.</li> <li>· The additional control circuit will operate the connected butterfly valve depending on water levels.</li> </ul>
G11070	2	<p><b>AWD hose connection set for basement tanks 20m</b></p> <p>Air-tight 25mm hose pipe, required for the AWD filter's patented automatic diversion function.</p> <p>When the holding tank is full and the hose kit is installed, the filter will automatically shut the outlets and divert incoming rainwater at high level via the overflow, without requiring electricity or any moving mechanical parts.</p> <p>One to be installed on each filter outlet.</p>
G12200	1	<p><b>Sectional GRP tank 16m3 Nominal Dimension 4x2x2mt</b></p> <p>Non-potable (clear) water storage tank</p> <p>Glass-reinforced plastic, hot press moulded and pre-insulated, nominal wall thickness 38mm, c/w with heavy duty cover, manholes and screened vents as per specification</p> <p>Internally flanged base, externally flanged sides (500mm access required from all sides)</p> <p>Price includes all inlet and outlet connections, haulage and installation.</p> <p>Installation on floor with surface variation not exceeding 2mm in 1m and 6mm in 6m, otherwise levelling steels are required at additional cost.</p>
G12137	2	<p><b>100mm Calmed Inlet for Basement Tanks</b></p> <p>Black PE. Allowing rainwater to enter without disturbing the sediment in the tank, and reducing turbulence to allow small particles to settle or float.</p> <p>DN 100 pipe connection welded, without flange, for basement tanks.</p>
G12410	1	<p><b>Overflow siphon DN 200</b></p> <p>Black PE, installed within the tank. For discharge of excess rainwater to storm drain and protection against odour.</p>
G13385	1	<p><b>Aqua-Control 2500 ECO F 1.0 l/s @ 5.0 bar</b></p> <p>Central electronic control unit for rainwater harvesting or greywater recycling systems with pressurised distribution and fully automatic water management. For use with internal, external, above or below ground storage tanks for non-potable water use</p> <p>Maximum Flow Rate: 9.6 m<sup>3</sup> per hour (at minimum pressure)</p> <p>Maximum Pressure Head: 62.5 m (at minimum flow rate)</p> <p>Integrated non self-priming double booster pump set with multistage centrifugal pumps</p> <ul style="list-style-type: none"> <li>- Demand activated booster pump control (cascade principle)</li> <li>- Leading pump with variable speed control</li> <li>- Automatic, demand activated and water efficient mains water back-up</li> </ul>

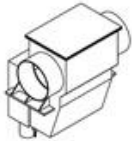


Part Number	Qty	Description
		<p>via integrated break tank and AA-type air gap (as per BS 8515 / BS 8525), enabling the system to run fully on mains water e.g. during maintenance</p> <ul style="list-style-type: none"> <li>- Unique air ingress and cavitation prevention to maximise lifetime of pumps</li> <li>- Integrated touch screen display for indication of operation status, system pressure, level in non-potable water storage tank, run time meter per pump, settings and detailed failure indication etc.</li> <li>- Automatic and manual changeover to mains water supply</li> <li>- Integrated dry run protection, mains water back-up fault alarm, switchable pipe burst and leakage alarm function</li> <li>- Fully adjustable stagnation prevention for mains water pipe</li> <li>- Volt free contact (3A @ 30V DC) for general fault alarm signal to BMS.</li> <li>- Pressure and water level sensor included, control and all internal components pre-wired and pre-installed in a compact powder coated steel housing with isolation switch</li> </ul> <p>Power connection: 3ph 400V 50Hz 5.2A full-load current            Connection sizes: 2" suction and pressure pipes, 1½" mains top-up pipe</p>
G13372	1	<p><b>Connection set for Aqua-Control 2500</b></p> <p>Pipework connections, brass fittings and isolation valves for easy connection on site</p>
G13378	1	<p><b>Basement Tank Package for Aqua-Control 2500</b></p> <p>Package including:</p> <ul style="list-style-type: none"> <li>- Motorised ball valve 2"</li> <li>- Additional in- and outputs</li> <li>- Software upgrade to block water from entering the Aqua-Control unit during automatic maintenance (stagnation prevention on the mainswater pipe branch).</li> </ul>
G11115	1	<p><b>Y - Mains water filter bronze 1½" WRAS-approved</b></p> <p>Filters out debris from the mains water top-up pipe, protecting the downstream solenoid valve and booster pumps.</p> <ul style="list-style-type: none"> <li>- Max. operation pressure: 25 bar (PN 25)</li> <li>- Body: bronze, bonnet: brass</li> </ul>
G15021	1	<p><b>Pressure vessel 100l (10 bar)</b></p> <p>For installation on the pressurised outlet to serviced appliances, reducing operation of pumps and avoiding water hammers in the pipework.</p>
G15064	1	<p><b>Water meter 2"</b></p> <p>High precision cold water meter, for flow metering on the reclaimed water pressure pipe or the mains water top-up pipe.</p> <p>c/w pulse output module, can be used in conjunction with remote monitoring package</p> <ul style="list-style-type: none"> <li>- Nominal flow rate 15m<sup>3</sup>/hr</li> <li>- Max flow rate 30m<sup>3</sup>/h</li> <li>- Max Temp 40°C</li> </ul>

Part Number	Qty	Description
G15063	1	<ul style="list-style-type: none"> <li>- 1 impulse per litre from pulse output modules</li> <li>- Meter length 300mm</li> </ul> <p><b>Water meter 1½"</b></p> <p>High precision cold water meter, for flow metering on the reclaimed water pressure pipe or the mains water top-up pipe.</p> <p>c/w pulse output module, can be used in conjunction with remote monitoring package</p> <ul style="list-style-type: none"> <li>- Nominal flow rate 10m<sup>3</sup>/hr</li> <li>- Max flow rate 20m<sup>3</sup>/h</li> <li>- Max Temp 40°C</li> <li>- 1 impulse per litre from pulse output modules</li> <li>- Meter length 300mm</li> </ul>
G10000	1	<p><b>Carriage to site for offloading</b></p> <p>Unless stated otherwise, delivery is to the nearest hard standing area. All deliveries, unless otherwise requested and allowed for, will be on a flat bed vehicle with offloading and distribution being the responsibility of the contractor or contractor's operatives</p>
G10017	1	<p><b>Timed delivery by FORS-accredited vehicle, 1 slot</b></p> <p>Allowing delivery to be slotted into site requirements. Exact number of slots tbc</p>
G30000	1	<p><b>Combined System Commissioning</b></p> <p>Including Report, Certificate and travel within Mainland UK.</p> <p>Split commissioning over two visits:</p> <ul style="list-style-type: none"> <li>- One before handover for functional testing of the combined system.</li> <li>- Second visit for activation of greywater treatment process. This is only possible when the building is occupied as biology depends on greywater being available.</li> </ul>




**Saffron Hill Block**



G17303	1	<p><b>Aqua-Recycling-Control 120B+</b></p> <p>Grey water treatment system package using Bio-Membrane-Technology.</p> <p>For treatment of low-contaminated greywater from bathtubs, showers and hand wash basins to provide colourless, odourless high-quality non-potable water for a local re-use (e.g. for toilet flushing, washing machines, household cleaning purposes, irrigation or industrial applications). Daily greywater treatment capacity of up to 3,000 litres.</p> <p>ISB-Membrane-Bio-Reactor Greywater Treatment System, equipped with:</p> <ol style="list-style-type: none"> <li>1) Coarse filter for mechanical pre-treatment to remove all undissolved water contents (e.g. textile fluff, hair); stainless-steel filter plate with 0.7mm slot size; high-quality PE-chassis; with automated backwash function which includes water spray nozzles, ½" solenoid valve and controls.</li> <li>2) Greywater storage tank to equilibrate the quantity and quality of raw greywater. Made of grey high-quality PE HD, equipped with float switch, submerged</li> </ol>
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Part Number	Qty	Description
<p>G11052</p> 	<p>1</p>	<p>circulation pump with 3m PVC flex tube, PVC drain 1½".</p> <p>3) ISB-MBR-tank containing eco-friendly membrane bioreactor. Tank made of grey high-quality PE-HD, equipped with level sensor, air compressor incl. console and 3m PVC-aerator-flex tube, submerged PES-membrane filter incl. EPDM-tube aerator, stainless-steel chassis, filtrate pump M140 with 2m PVC filtrate flex tube.</p> <p>4) Non-potable water storage tank to balance water supply and demand. Made of grey high-quality PE-HD, level sensor, PVC-drain 1½".</p> <p>5) Automated Aquality-control unit to manage all operating processes, installed in polycarbonate chassis IP 65, with LCD menu, hotkey-function to engage different operating modes (automatic rainwater feed), fill level control, setup menu to adjust settings (filtration, aeration, backwash, fill level calibration), visual malfunction message, power cables to all electrical components 5m.</p> <p>Technical information:</p> <ul style="list-style-type: none"> <li>- Greywater storage: 3,000 litres (nominal)</li> <li>- Non-potable water storage: 3,000 litres (nominal)</li> <li>- Energy consumption: 1.75 kWh/m<sup>3</sup> non-potable water</li> <li>- Slot size coarse filter: 0.7 mm</li> <li>- Pore size membrane filter: 38 nm (nanometres)</li> <li>- Active membrane surface: 6.25 m<sup>2</sup></li> <li>- Electrical loading: 1x 230V 50Hz 3A, 400W (excluding Aqua-Control unit)</li> <li>- Approximate floor space required in standard layout: 5.5m x 4m (22m<sup>2</sup>)</li> <li>- Minimum room height for membrane maintenance: 2.6m</li> </ul> <p>Standard connection lengths:</p> <ul style="list-style-type: none"> <li>- Cable length between control and tanks: 5m</li> <li>- Compressor hose to ISB-MBR-tank: 5m</li> <li>- Greywater pump hose to ISB-MBR-tank: 3m</li> <li>- Clear water pump hose between ISB-MBR-tank and non-potable water tank: 3m</li> </ul> <p>Hydraulic connections:</p> <ol style="list-style-type: none"> <li>a. DN 100 greywater inlet from showers / baths / hand-wash basins</li> <li>b. DN 100 greywater overflow to foul water drain (piped)</li> <li>c. 1" non-potable water suction pipe connection</li> <li>d. DN 100 emergency overflow non-potable water storage tank (to floor drain point)</li> <li>e. ½" automatic coarse filter cleaning; flow pressure: 1-6 bar</li> </ol> <p><b>Rainwater filter AWD 3</b></p> <p>Two stage pre-tank rainwater filtration via horizontal and vertical stainless steel filter grid, filtration efficiency up to 99% even during heavy rainfall events.</p> <p>Optionally with automatic non-mechanical rainwater diversion via air cushion effect (see specification sheet).</p> <p>Passive self-cleaning effect via horizontal filter grid and air cushion</p> <p>Filter monitoring and active fully automatic filter cleaning available as optional add-on</p> <p>Minimum height-difference between inlet and overflow connection: 20 mm</p>



Part Number	Qty	Description
G11060	2	<p>Installation aboveground indoor/outdoor or below ground (within rainwater storage tank or separate filter manhole)</p> <p>Design Flow Rate: 30 l/s</p> <p>Maximum Collection Flow Rate: 60 l/s</p> <p>Roof Area: up to 2,000 m<sup>2</sup> (based on 0.03 l/s/m<sup>2</sup> max. rainfall intensity)</p> <p><b>Motorised Diverter Valve DN100</b></p> <p>Wafer-type Butterfly Valve:</p> <ul style="list-style-type: none"> <li>- Absolutely tight sealing with flow in either direction</li> <li>- The valve body and disc are accurately machined which results in low operating torque, long service life and reliability</li> <li>- Triple shaft bearings prevent shaft deflection and guarantee optimum guidance even after many years of operational service</li> <li>- Four flange mounting holes ensure correct valve location</li> <li>- Single flange mounting is possible (please request details from our Technical Department).</li> <li>- Can be installed in any desired position.</li> <li>- Can be disassembled, material-specific recycling possible</li> <li>- End position control with alarm raised if contacts not closed due to blockage or actuator fail</li> </ul> <p>Electric Actuator:</p> <ul style="list-style-type: none"> <li>- Robust aluminium body</li> <li>- Completely ball-bearing worm gear</li> <li>- Safe arresting by self-inhibition</li> <li>- Changeable clutch nuts for mounting on different shaft ends</li> <li>- Mechanical position indicator disc for an optical control of the valve's position</li> <li>- Motor with thermic winding protection switch</li> <li>- Hand wheel enables immediate hand emergency operation if necessary</li> </ul>
G13355	1	<p><b>Control wiring for Motorised Diverter Valve via AC 2500</b></p> <ul style="list-style-type: none"> <li>· Feature in combination with Aqua-Control.</li> <li>· The additional control circuit will operate the connected butterfly valve depending on water levels.</li> </ul>
G11070	2	<p><b>AWD hose connection set for basement tanks 20m</b></p> <p>Air-tight 25mm hose pipe, required for the AWD filter's patented automatic diversion function.</p> <p>When the holding tank is full and the hose kit is installed, the filter will automatically shut the outlets and divert incoming rainwater at high level via the overflow, without requiring electricity or any moving mechanical parts.</p> <p>One to be installed on each filter outlet.</p>
G12200	1	<p><b>Sectional GRP tank 16m<sup>3</sup> Nominal</b></p> <p><b>Dimension 4x2x2mt - Installation included</b></p> <p><b>Base levelling steels NOT INCLUDED</b></p>

Part Number	Qty	Description
		<p>Non-potable (clear) water storage tank</p> <p>Glass-reinforced plastic, hot press moulded and pre-insulated, nominal wall thickness 38mm, c/w with heavy duty cover, manholes and screened vents as per specification</p> <p>Internally flanged base, externally flanged sides (500mm access required from all sides)</p> <p>Price includes all inlet and outlet connections, haulage and installation.</p> <p>Installation on floor with surface variation not exceeding 2mm in 1m and 6mm in 6m, otherwise levelling steels are required at additional cost.</p>
<p>G12137</p> 	2	<p><b>100mm Calmed Inlet for Basement Tanks</b></p> <p>Black PE. Allowing rainwater to enter without disturbing the sediment in the tank, and reducing turbulence to allow small particles to settle or float.</p> <p>DN 100 pipe connection welded, without flange, for basement tanks.</p>
<p>G12410</p> 	1	<p><b>Overflow siphon DN 200</b></p> <p>Black PE, installed within the tank. For discharge of excess rainwater to storm drain and protection against odour.</p>
<p>G13386</p> 	1	<p><b>Aqua-Control 2500 ECO G 1.6 l/s @ 5.0 bar</b></p> <p>Central electronic control unit for rainwater harvesting or greywater recycling systems with pressurised distribution and fully automatic water management.</p> <p>For use with internal, external, above or below ground storage tanks for non-potable water use</p> <p>Maximum Flow Rate: 9.6 m<sup>3</sup> per hour (@ 0 Bar)</p> <p>Maximum Pressure Head: 83.5 m (@ 0 l/s)</p> <p>Integrated non self-priming double booster pump set with multi-staged, horizontal centrifugal pumps, max. flow rate up to 30 m<sup>3</sup>/h</p> <ul style="list-style-type: none"> <li>- Demand activated booster pump control (cascade principle)</li> <li>- Automatic, demand activated and water efficient mains water back-up via integrated break tank and AA-type air gap (as per BS 8515 / BS 8525), enabling the system to run fully on mains water e.g. during maintenance</li> <li>- Unique air ingress and cavitation prevention to maximise lifetime of pumps</li> <li>- Integrated touch screen display for indication of operation status, system pressure, level in non-potable water storage tank, run time meter per pump, settings and detailed failure indication etc.</li> <li>- Automatic and manual changeover to mains water supply</li> <li>- Integrated dry run protection, mains water back-up fault alarm, switchable pipe burst and leakage alarm function</li> <li>- Fully adjustable stagnation prevention for mains water pipe</li> <li>- Volt free contact (3A @ 30V DC) for alarm signal or general fault message to building management systems.</li> <li>- Pressure and water level sensor included, control and all internal components pre-wired and pre-installed in a compact powder coated steel housing with isolation switch</li> <li>- Pre-wired for connection to Educational Panel monitoring unit</li> <li>- Leading pump with variable speed control</li> <li>- Integrated UV<sub>254</sub>-synchronizer control for low energy use of UV treatment system</li> </ul>

Part Number	Qty	Description
G13372	1	<p>Dimensions: 570mm [W] x 650mm [D] x 1,750mm [H]</p> <p><b>Connection set for Aqua-Control 2500</b></p> <p>Pipework connections, brass fittings and isolation valves for easy connection on site</p>
G13378	1	<p><b>Basement Tank Package for Aqua-Control 2500</b></p> <p>Package including:</p> <ul style="list-style-type: none"> <li>- Motorised ball valve 2"</li> <li>- Additional in- and outputs</li> <li>- Software upgrade to block water from entering the Aqua-Control unit during automatic maintenance (stagnation prevention on the mainswater pipe branch).</li> </ul>
G11115	1	<p> <b>Y - Mains water filter bronze 1½" WRAS-approved</b></p> <p>Filters out debris from the mains water top-up pipe, protecting the downstream solenoid valve and booster pumps.</p> <ul style="list-style-type: none"> <li>- Max. operation pressure: 25 bar (PN 25)</li> <li>- Body: bronze, bonnet: brass</li> </ul>
G15021	1	<p> <b>Pressure vessel 100l (10 bar)</b></p> <p>For installation on the pressurised outlet to serviced appliances, reducing operation of pumps and avoiding water hammers in the pipework.</p>
G15064	1	<p><b>Water meter 2"</b></p> <p>High precision cold water meter, for flow metering on the reclaimed water pressure pipe or the mains water top-up pipe.</p> <p>c/w pulse output module, can be used in conjunction with remote monitoring package</p> <ul style="list-style-type: none"> <li>- Nominal flow rate 15m<sup>3</sup>/hr</li> <li>- Max flow rate 30m<sup>3</sup>/h</li> <li>- Max Temp 40°C</li> <li>- 1 impulse per litre from pulse output modules</li> <li>- Meter length 300mm</li> </ul>
G15063	1	<p><b>Water meter 1½"</b></p> <p>High precision cold water meter, for flow metering on the reclaimed water pressure pipe or the mains water top-up pipe.</p> <p>c/w pulse output module, can be used in conjunction with remote monitoring package</p> <ul style="list-style-type: none"> <li>- Nominal flow rate 10m<sup>3</sup>/hr</li> <li>- Max flow rate 20m<sup>3</sup>/h</li> <li>- Max Temp 40°C</li> <li>- 1 impulse per litre from pulse output modules</li> <li>- Meter length 300mm</li> </ul>
G10000	1	<p><b>Carriage to site for offloading</b></p> <p>Unless stated otherwise, delivery is to the nearest hard standing area. All deliveries, unless otherwise requested and allowed for, will be on a flat bed vehicle with</p>

Part Number	Qty	Description
		offloading and distribution being the responsibility of the contractor or contractor's operatives
G10017	1	<b>Timed delivery by FORS-accredited vehicle, 1 slot</b> Allowing delivery to be slotted into site requirements. Exact number of slots tbc
G30000	1	<b>Combined System Commissioning</b> Including Report, Certificate and travel within Mainland UK. Split commissioning over two visits: - One before handover for functional testing of the combined system. - Second visit for activation of greywater treatment process. This is only possible when the building is occupied as biology depends on greywater being available.

**Grand Total: £ 107,921.77**

# Combined Rainwater Harvesting and Greywater Recycling Totals

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**SYSTEM TOTAL**

**£ 107,921.77**

*Includes delivery to site (UK Mainland) but excludes offloading, installation and VAT at current rate, unless specified within installation. Payment Terms to be confirmed.*

*Please note that this quote is only valid for 90 days from the date of this quotation – Please contact us should you require a fixed price for a certain period*

*Conditions of Sale – As Aquality general terms and conditions (available on request).*

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This quotation should be used in conjunction with the technical specification, equipment specification sheets and installation guides.

We would always advise to meet and discuss the proposal more fully, thus ensuring that our package satisfies the requirements of the site, the design consultant and ultimately the client.

Unless otherwise stated:

- Pump duties would have to be confirmed
- Design not included unless stated
- We have assumed the roof surface used is **not** a Green Roof (unless stated in notes above, applicable to rainwater and combined systems only)
- General assumptions will be used to assist specification process
- When quoting against a generic or competitors specification, we will have selected equipment that will most closely provide a similar (or enhanced) specification
- If used, Siphonic Drainage should have the siphon broken before the rainwater reaches the filter / holding tank
- The air ventilation and frost protection of the tank and plant room / location of the plant must be guaranteed
- A separate pipework system is required for non-potable water as per BS:8515 / BS:8525
- All pipework is to be provided by others, **unless specified within installation.**
- Installation, builders works of all platforms, pipework, support structures, electrical, volt free or telephony / connection cables and materials for cable / pipe / hose fixation are excluded from this specification and are to be provided by others, **unless specified within installation.**

IMPORTANT: Aquality Trading & Consulting Ltd reserves the right to upgrade or modify all our products and specification. Conditions of sale as per Aquality General Terms & Conditions (available on request).

We trust this proposal is of interest. Please do not hesitate to contact Matt Tickle on (07973) 253 669 to discuss the proposal in more detail or to arrange a meeting if required.

**Dario Pellegrini**

# TERMS AND CONDITIONS OF SALE

## 1. Interpretation

The following shall have the following meanings:

- "The Company" shall mean AQUALITY Trading & Consulting Ltd.
- "The Purchaser" shall mean anyone, whether a person or persons or body corporations who place an order with the Company for a Product
- "Product" shall mean the goods to the sale of which these terms apply and any reference thereto shall be deemed to include a part or parts thereof in the singular shall be deemed to include the plural and vice versa.
- The general headings to the paragraphs herein are for reference only and shall not affect the construction or interpretation of these terms and conditions or any part thereof.

## 2. General

- All products are sold subject to terms and conditions contained herein.
- No verbal, written or other addition hereto or variation hereof shall be effective.
- In the event of any conflict or inconsistency between Conditions and the terms or conditions of any order or acceptance, these conditions shall prevail.
- The giving of any delivery instructions the acceptance of, or payment for, any products or any conduct in confirmation by the purchaser of the transaction hereby contemplated shall constitute unqualified acceptance by the Purchaser of these conditions.

## 3. Illustrations

All illustrations or descriptive material of any sort including drawings specifications or weight, capacity, dimensions, output and consumption are for information only and shall not form part of the contract. They are approximate only and no warranty or guarantee is given for their accuracy.

## 4. Design

The Company reserves the right to make at any time such changes in design, construction, composition, materials, arrangement or equipment as it shall think fit without notifying Purchaser.

## 5. Suitability of Equipment for purchaser's requirements

The Company accepts no liability if the equipment ordered, is in fact, unsuitable for the Purchaser particular requirements unless a full written description of the process in which the equipment is to be used is submitted to the Company with the order.

## 6. Samples

Samples of products are available for inspection at the Company's offices. The samples are ex-stock at the time of viewing and are without guarantee, and are not representations of colour, specification or performance at the time of delivery.

## 7. Price and payment

- Payment for products shall be made not later than 30 days from date of invoice unless otherwise expressly agreed in writing by the Company. The Purchaser shall make no deduction in payment in respect of any set-off or counter claim whether justified or not.
- The Company shall be entitled to alter the price charged for any products by such amount as the Company shall think fit at any time before delivery, in the event of an increase in cost to the Company in supplying such products unless a fixed price has been agreed previously in writing between the Company and the Purchaser.
- All prices referred to herein exclude Value Added Tax, Purchase Tax, or any other tax duty which is or may be levied or charged; the amount of such taxes or duties calculated at the rate prevailing at the appropriate time will be added to such prices and the Purchaser shall account to the Company for such taxes or duties in the same manner as the price of the products as set out in clause 7a).
- Interest at the rate of 2% per calendar month and/or pro rata for any part thereof shall be payable on all outstanding amounts.
- In case of severe currency fluctuations during the validity period of the quote, we reserve the right to make price adjustments.

## 8. Delivery

- The estimate of time given for delivery shall run from the date on which the order has been accepted by the Company. Time shall not be of the essence of the contract.
- If the Company is prevented from or delayed in (directly or indirectly) making delivery of products, or performing or completing any of its obligations by reasons of acts of God, wars, strikes, lockouts, trade disputes, or other industrial action, fires, explosions, breakdowns, interruption of transport, Government or administrative action, delays in delivery to the Company of any goods or materials, or any cause whatsoever (whether or not of the like nature to those specified above) outside its control, the Company shall be under no liability whatsoever to the Purchaser, and shall be entitled its option (to be notified to the Purchaser in writing) either to cancel the contract or to extend the time of its performance by a period equivalent to that during which performance by the Company has been prevented by the circumstances herein before referred to.
- If the products have been received but are in a damaged condition or if the quantity received differs from the quantity advised by the Company as dispatched, the Purchaser shall immediately give notice in writing to the Company of the relevant facts. If such notice is not received within two days of dispatch by the Company, the Company will not be liable to the Purchaser in respect of any loss or damage suffered and the Purchaser shall accept liability as if all the products had been received and shall not claim against the Company in respect of non or short delivery or damage in transit.
- Where products are offered for delivery to site the obligation of the Company is to deliver only as far as safe hard roads permits. The customer is to provide to the Company, free of charge, reasonable assistance in unloading.

## 9. Commissioning & Pre-Commissioning Site Visits

- The Company requires a minimum of six weeks' notice for commissioning (please note that that commissioning is not considered booked until all relevant documentation has been received).
- The Company requires a minimum of six weeks' notice for pre-commissioning site visits (please note that that pre-commissioning is not considered booked until all relevant documentation has been received).
- The Company will not be liable or responsible for delayed commissioning, late hand over penalties where six weeks' notice was not given or where the commissioning failed due to incomplete or incorrect installation.
- Where commissioning failed due to incomplete or incorrect installation the purchaser will be liable for all AQUALITY expenses and time on site

## 10. Postponement of delivery by customer

Due to the nature of the equipment being supplied, much of the equipment supplied by AQUALITY will be bespoke or manufactured to order.

If the delivery of the equipment is postponed by the customer, irrespective of the reason for postponement, AQUALITY reserve the right to invoice for the equipment on the day on which delivery had originally been agreed.

## 11. Transfer of Property

- Title to the products shall not pass to the purchaser until either:
  - The company has received in cash or cleared funds all monies payable (whether or not due) to the company under this and any other contracts whenever made between the company and the purchaser including contracts made after this contract.
  - When the company serves notice on the purchaser in writing specifying that title in the products or any part thereof has passed
- In default of payment within the period specified in clause 7 (7b) hereof the Company may, without prejudice to any other rights or remedies resume possession of the products.
- Until the ownership of the products passes as aforesaid the Purchaser shall be deemed to hold the products as bailee of the Company and shall use all reasonable care to keep the products in the same condition as that in which they were delivered to him.

## 12. Intellectual property

- Any technical documents, drawings and specifications which are supplied to the purchaser relating to the products are confidential, and must not be used for any unauthorised purpose or copied, reproduced, transmitted or communicated to a third party without the Company's written consent.
- The Company and its suppliers reserve all design or other intellectual property rights in relation to the products supplied to the purchaser (including any such technical documents, drawings and specifications), which undertakes not to do or authorise any third party to do any act which would or might invalidate or be inconsistent with any of such rights.

## 13. Guarantee

If during the period of eighteen calendar months from the date of manufacturer by the Company or twelve months from the date of commissioning whichever is the shortest of any products shall be proved by the customer to the satisfaction of the Company to be defective by reason of faulty design, or defective materials of manufacture, and the Company is notified within 14 days in writing of the alleged defect becoming apparent and the defective products are returned carriage paid to the Company then the Company shall at its option and without cost to the Purchaser either repair the defective product, provided however that:

- all products replaced shall be the property of the Company
- failure by the Purchaser to carry out any of its obligations shall relieve the Company of any liability
- notwithstanding anything contained in these conditions the sole liability in respect of products not manufactured by the Company but merely resold shall be to give the Purchaser the benefit of such sums (if any) recovered by the Company from the manufacturer of such products as the Company shall consider possible.
- If without the prior written consent of the Company repairs or replacements are made by the purchaser to a product the Company shall be under no liability whatsoever under this clause 10 and no allowance shall be made for any repairs or alterations so made.
- No liability for loss or damage shall attach to the Company until the product has been paid for. The Company shall be under no liability for loss or damage in respect of any product which has not in its absolute opinion been properly installed, maintained and operated as aforesaid. The liability of the Company in respect of products supplied, or any loss or damage, or secondary or remoter losses attributable thereto (directly or indirectly) is limited to making good by supplying replacements. At the expiration of the periods mentioned in the introduction to clause 10 hereof all liability on the part of the Company in respect of any product shall cease. The Company shall in no way be liable for consequential loss or damage. The Company shall be under no liability whatsoever including (but without prejudice to the generality of the foregoing) any liability in tort for defects in, failure of, or unsuitability for any purpose of the product whether the same be due (directly or indirectly) to any act omission, negligence or wilful default of the Company or its servants or agents or to faulty design manufacture or materials, or to any other cause whatsoever, including (but without prejudice to generality of the foregoing) any breach by the Company its servants or agents of any terms, of the contract to which these conditions relate.

## 14. Return of products

Products may not be returned to the Company except by prior written permission of an authorized officer of the Company and such return shall be subject to payment by the Purchaser of handling and restocking charges, transport and all other costs incurred by the Company.

## 15. Implied conditions and warranties

These conditions of Sale contain all terms under the contract of sale are entered into by the Company and any express or implied statement, condition or warranty, statutory or otherwise, not stated herein is expressly excluded.

## 16. Cancellation

If the purchaser shall make any default in or commit any breach of any of its obligations with respect to payment of any sums due to the Company under any other contract whatever or if any distress, execution or other legal process shall be levied upon or served out against the Purchaser's property or assets or if the Purchaser shall make any arrangements or composition with its creditors or commit any act of bankruptcy or if any petition or receiving order shall be presented or made against the Purchaser or if the purchaser is a company any resolution or petition to wind up shall be passed or presented, or if a receiver of all or any of its assets shall be appointed, then in each and every case the Company shall have the right forthwith or at any time thereafter to determine the contract (except insofar as it relates to products title to which shall already have passed to the Purchaser) and to cancel any outstanding delivery or deliveries hereof, payment in respect of any delivery already made shall be immediately due but entirely without prejudice to any remedy which the Company may have against the Purchaser. The Company reserves the right to refuse or ignore countermands for products ready for dispatch or in process of manufacture. The Purchaser shall be liable to the Company for any loss caused to it by the acceptance of any cancellation given by the Purchaser before delivery of any product but it may in any case without prejudice to any of its other rights hereunder in lieu of a claim therefore require a minimum payment to reflect any loss caused to the Company.

## 17. Purchaser's conditions of purchase

Any conditions set out in the Purchaser's enquiries or Purchase Orders are binding on the Company only insofar as they do not conflict with these Terms and Conditions of Sale, and in the event of such conflict these Terms and Conditions of Sale shall prevail.

## 18. Jurisdiction

These Terms and Conditions are subject solely to English law and any dispute arising shall be settled in accordance herewith.