

Nimbus Water Technologies – Municipal or Borehole Water Buffer/Back-up system with Filtration Options



ABOVE - Typical mains, or borehole water back-up/buffer water storage with filtration projects. Mains water supply routed into holding tank/s via approved NON RETURN VALVE [required by law, to prevent any push-back of water from tank back into the municipal water lines] with fitted tank ball & float valve, to control the water level & supply of mains water into tank/s. From Tank/s via QUALITY BRAND water booster pump with electric automatic pressure control, water pumped through twin, or triple filtration, [2 x sediment filtration & carbon filtration to 5um and final treatment, Ultra Violet] {Option of filtration to be discussed} – treating all the water going into the home, lodge, B&B, or commercial office building, on demand. – See table below for quote information required by Nimbus WaterTec



Example of a TW2 & 3BB20-UV filtration system. Sediment & Carbon filtration to 5um with SS ultra violet & CB, to kill bacteria & disinfect the water. Inline system – treating all the water on demand up to 5000lt/hr @ max 4bar. Ideal for most domestic water treatment and commercial offices/building, hotels, lodges...



Example of a 10000lt/hr water filtration plant build into a 6m containers - filtration system - Sediment & Carbon filtration to 5um with SS ultra violet & CB, to kill bacteria & disinfect the water. Inline system – treating all the water on demand up to 60000lt/hr @ max 4bar.



Example of a TW3BB20-CTS – via manifold, chemical dosing kill bacteria fist - filtration system. Sediment & Carbon filtration to 5um. Inline system – treating all the water on demand up to 5000lt/hr @ max 4bar. Ideal for areas with power problems and UV not practical.



Example of a iron or heavy metals removal di-ionisation system. Special BIRM media for dissolved iron and a similar system to treat hard water lime scale CaCO3 hardness with special resin media, or Nitrates in drinking water.



Example of a CONN40 Steel HIGH FLOW & PRESSURE filtration system. Sediment & Carbon filtration to 5um with SS ultra violet & CB, to kill bacteria & disinfect the water. Inline system – treating all the water on demand at greater than 40000lt/hr @ max 15bar.



Example of a range of available Ozone water treatment units. Ozone is very effective to oxidise the contaminants, [strong oxidising agent] especially heavy metals to be filtered out through filters i.e. TW2 or 3BB20, Ozone effective to "kill" bacteria and disinfect the water.

To assist with a detailed quote, Nimbus require the following

Following acceptance of the quote estimate, a Nimbus technician or installer need to visit the site to inspect the scope of the work involved, especially trenching and plumbing work required.

REQUIRED WATER STORAGE/TANK SIZE

As a rule, the CSIR guide for water usage in the home is +88-110lt per person per day. Shower/bath, toilets, clothes washing, kitchen/dishes, food prep – no irrigation or pool fill. Or can calculate from your municipal account daily usage.

WATER FILTRATION REQUIRED & LEGAL ISSUE of RISK – Service provider.

Municipal water to tank, SHOULD comply with SANS241 standards for POTABLE WATER. Legally, once you place the water in a storage system, YOU become the service provider and your responsibility to ensure the water 24/7 is safe for human consumption & drinking purposes. Reason why Nimbus suggest water filtration & UV as part of the system.

POWER SUPPLY for water pressure pump and UV system

Nimbus will need a 2 x 220V, 16AMP, external power point close to area of installation for the pump & UV on filtration system. Only a registered electrician may supply & install the power point if not in range of the system.

TANK BASE REQUIRED

A level compacted area, or building brick/paving, or concrete base area of $Xm^2 \times Ym^2$ is required for the tank. Tank must be level. A full 2500lt tank is 2500kgs, or 2.5 tons, 5000lt tank, 5.0 tons. Nimbus can cost this into our quote or can be done by client appointed contractor to size specification supplied by Nimbus.