

# POTABLE WATER SYSTEM SOLUTION

Water Supply for Human Consumption



This potable water system solution design is based on utilising the municipal potable water supply.

The water as noted above gets utilised solely for potable water consumption. The fire water storage supply is from a separate supply dedicated for firefighting purposes only.

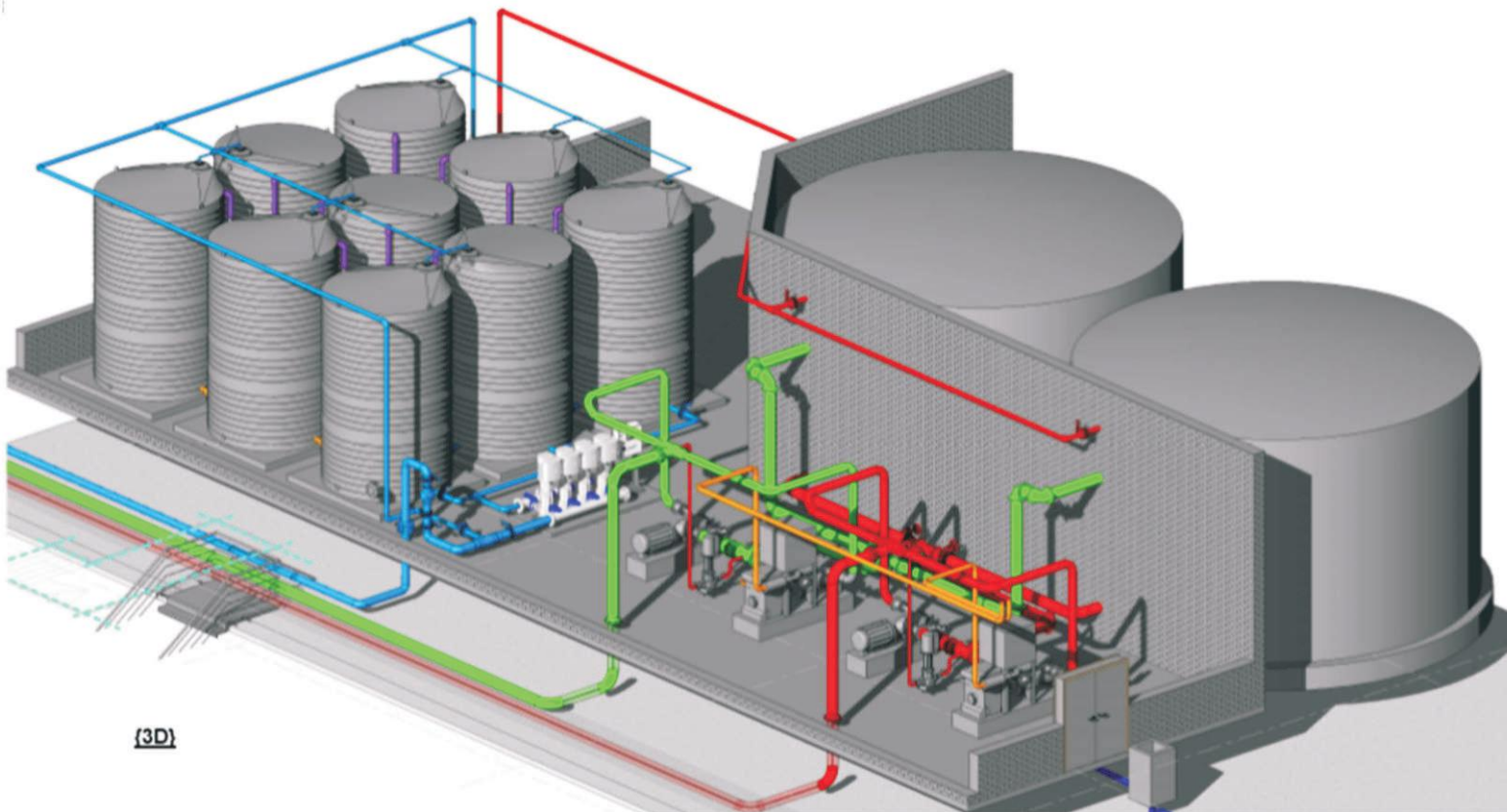
The potable water reticulation is so designed that the main potable water supply is connected to the building potable water supply reticulation.

Potable water reticulation system conveying potable water through the main reticulation network to sanitary fittings within the building.

The potable water is drawn from the potable water storage tank by means of a variable speed booster pump set, conveying potable water drawn through the main water reticulation pipe network.

Potable water will also be supplied to the hot water generating systems.

Potable water is then drawn from the potable water storage tank by means of a variable speed booster pump set, conveying potable water drawn through the main water reticulation pipe network to sanitary fittings within the building.



THE REQUIRED POTABLE WATER STORAGE DEMAND EQUATES TO THE FOLLOWING TABLE PROVISION:

## OCCUPANCY

### Residential

| Number of Persons | Total Storage Required (Liters) |
|-------------------|---------------------------------|
| 50                | 450                             |
| 100               | 900                             |
| 150               | 1 350                           |
| 200               | 1 800                           |
| 500               | 4 500                           |
| 1 000             | 9 000                           |
| 1 500             | 13 500                          |
| 2 000             | 18 000                          |

### Office

| Number of Persons | Total Storage Required (Liters) |
|-------------------|---------------------------------|
| 50                | 225                             |
| 100               | 450                             |
| 150               | 675                             |
| 200               | 900                             |
| 500               | 2 250                           |
| 1 000             | 4 500                           |
| 1 500             | 6 750                           |
| 2 000             | 9 000                           |

### Commercial Retail

| Number of Persons | Total Storage Required (Liters) |
|-------------------|---------------------------------|
| 50                | 115                             |
| 100               | 225                             |
| 150               | 340                             |
| 200               | 450                             |
| 500               | 1 150                           |
| 1 000             | 2 250                           |
| 1 500             | 3 400                           |
| 2 000             | 4 500                           |

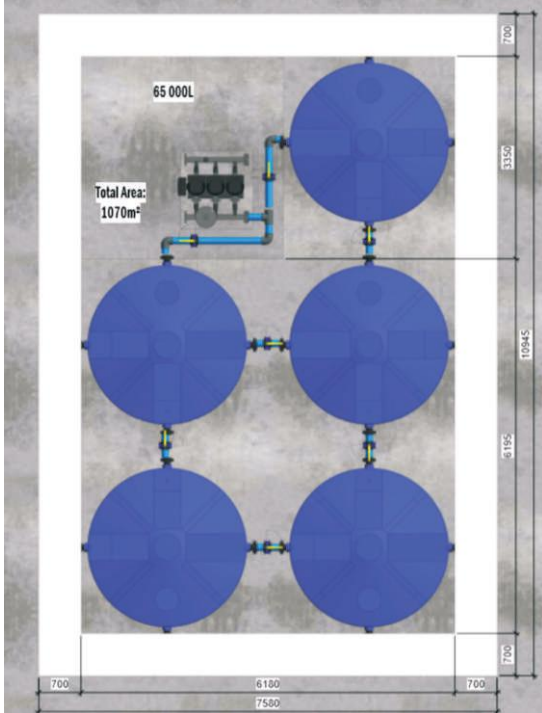


## PACKAGE DEAL

3D View



**POTABLE WATER SYSTEM PACKAGE DEALS  
(INCLUDE FLUSHING WATER)**



Plan Layout

Polythene tanks with a Booster Pump Set Arrangement complete with pipes, in fill pipe, float valve, pump outlet, fittings, overflow, tank drain points and associating accessories for a complete and fully functional system.  
(As per SANS 10252 part 1).

Plant Dimensions  
11m (L) x 7.5m (W) x 3.6m (H)

## EXCLUDE FLUSHING WATER

This potable water system solution design is based on utilising the municipal potable water supply and working inline with a non-potable water system provided to a complex, which comprising of capturing of rainwater of roof cover or/and collecting grey water.

The water as noted above gets utilised solely for potable water consumption thus excluding flushing water to urinals and water closet.

The fire water “potable water” storage supply is from a separate supply dedicated for firefighting purposes only.

The potable water reticulation is so designed that the main potable water supply is connected to the building potable water supply reticulation and a separate no-potable water supply reticulation. Potable water reticulation system conveying potable water drawn through the main reticulation network to sanitary fittings within the building, with the exclusion of urinals and water closet.

The potable water is draw from the potable water storage tank by means of a variable speed booster pump set, conveying potable water drawn through the main water reticulation pipe network. Potable water will also be supplied to the hot water generating systems as well as to sanitary fittings within the building.



THE REQUIRED POTABLE WATER STORAGE DEMAND EQUATES TO THE FOLLOWING TABLE PROVISION:

## OCCUPANCY

### Residential

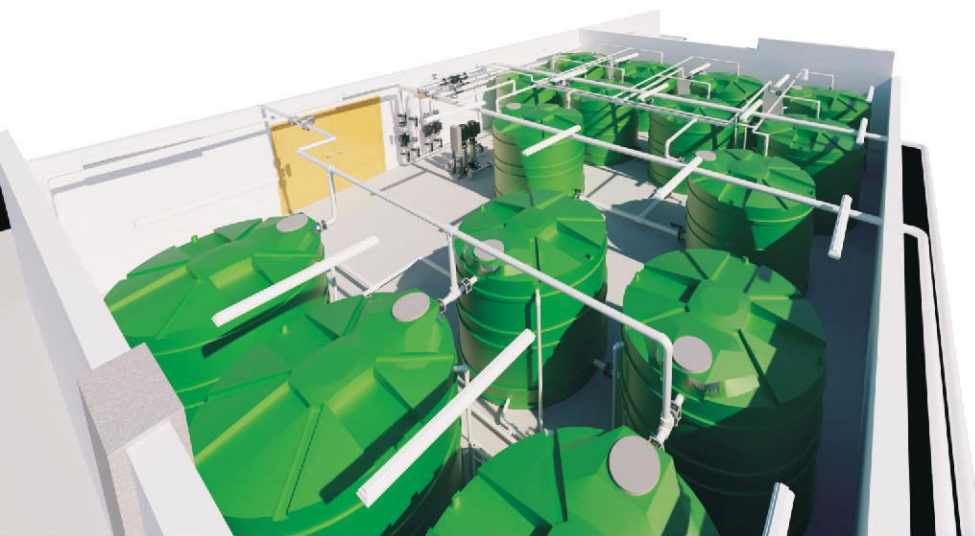
| Number of Persons | Total Storage Required (Liters) |
|-------------------|---------------------------------|
| 50                | 450                             |
| 100               | 900                             |
| 150               | 1 350                           |
| 200               | 1 800                           |
| 500               | 4 500                           |
| 1 000             | 9 000                           |
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| Number of Persons | Total Storage Required (Liters) |
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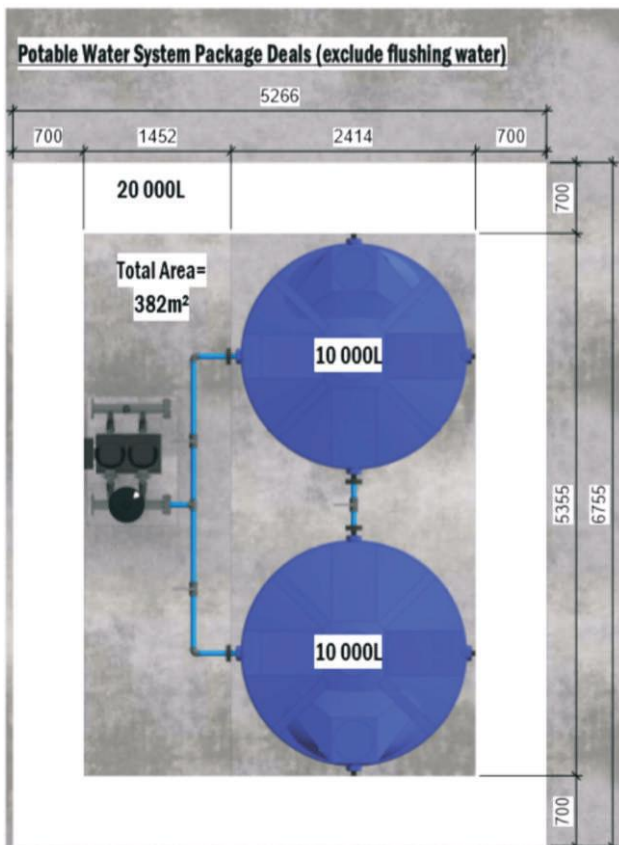
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## PACKAGE DEAL

3D View



Plan Layout

Polythene tanks with a Booster Pump Set Arrangement complete with pipes, in fill pipe, float valve, pump outlet, fittings, overflow, tank drain points and associating accessories for a complete and fully functional system.  
(As per SANS 10252 part 1)

### Plant Dimensions

7m (L) x 5.5m (W) x 3.6m (H)

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