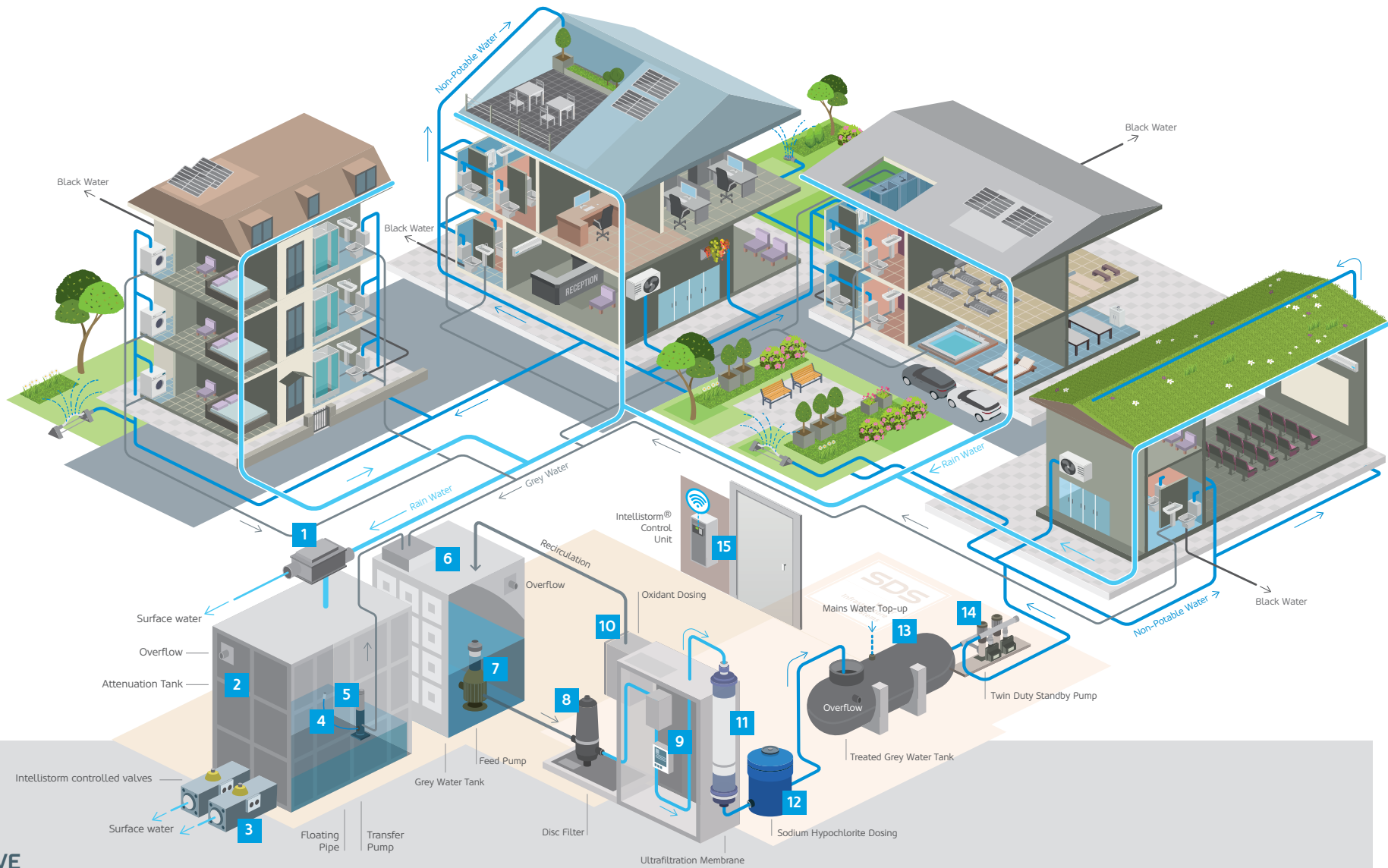


# RAIN WATER HARVESTING



## SDS RWH SYSTEM ACTIVE

- 1 BASEMENT FILTER** - Removes leaves and other large pieces of debris from the rainwater being collected.
- 2 ATTENUATION TANK** - Captured water is held in a tank, either under- or above- ground, sized in accordance with latest standards.
- 3 INTELLISTORM® CONTROLLED VALVES** - Comprise butterfly valves and actuators which are controlled by the Intellistorm® unit to release water to the drain.
- 4 FLOATING PIPE** - Connects with the pump to collect the cleanest water from just below the surface.
- 5 TRANSFER PUMP** - In underground, non-gravity fed, systems a pump delivers the water for processing or to a break tank.
- 6 GREY WATER TANK** - Storage can be minimised on high yield projects where space is at a premium.
- 7 MACERATOR FEED PUMP** - Provides a controlled supply of water to the filtration process.
- 8 DISC FILTER** - Self-cleaning with automated air-assisted backwash; progressively finer filters remove particulates suspended in grey water that are >20 microns in size.
- 9 CONTROL PANEL** - Visualises plant state and facilitates manual adjustment of settings; can be integrated into building management system (BMS).
- 10 OXIDANT DOSING** - Oxygen added to the water prior to its recirculation helps to prevent the build-up of bacteria in the grey water collection tank.
- 11 ULTRAFILTRATION MEMBRANE** - Hollow-fibre membranes filter down to 0.08 µm, providing a mechanical form of disinfection from waterborne viruses and bacteria.
- 12 SODIUM HYPOCHLORITE DOSING** - Ensures chlorine levels within treated grey water are safe and comparable to mains water.
- 13 TREATED GREY WATER TANK** - A back-up mains water feed to the tank ensures seamless water supply.
- 14 TWIN DUTY STANDBY PUMP** - Twin pumps typically specified but variable according to demand situations.
- 15 INTELLISTORM® CONTROL UNIT** - Processes forecast rainfall data, calculates incoming stormwater volume, and monitors and controls tank levels.