

## NITRATE REMOVAL MODULE



TECHNICAL DATA	
Dimensions (L x W x H)	6000mm x 2400mm x 2900mm
Gross Weight	14000kg
Consumables	Sodium Chlorine (Brine)
Optimum Flow	10 L/s
Max Flow	15 L/s
Max Chemical	2000L
Containment	Standard 20' shipping container
Operating System	32A 3PH power supply. Controlled via PLC and Graphical HMI

The Nitrate Removal Module (NRM) is a custom-built water treatment system whose sole purpose is the removal of nitrate ions from extracted ground water (or any effluent stream) prior to it being discharged to the environment. Nitrates are harder to treat than other nutrients – which can generally be extracted through conventional means – and require specialized equipment for effective removal.

The NRM can reduce nitrate concentrations to the point that treated water can be discharged into environmentally sensitive waterways like rivers and lakes: where legislative protection from nutrient discharge is extremely strict. The NRM will remove nitrates from the ground water at 15L/s, but requires comprehensive

pre-treatment to protect the expensive, specialist NRM media from contamination and fouling. Typically, units are set up in conjunction with a full range of plant including clarifiers, Metals Removal Modules, post-filtration and Granular Activated Carbon.

### KEY FEATURES

- Specifically targets hard-to-remove nitrates
- Fully automated, compact and self-contained
- Programmable Logic Controller (PLC) with Human Machine Interface (HMI) touchscreen
- Insulated and ventilated
- Minimal noise and vibration

