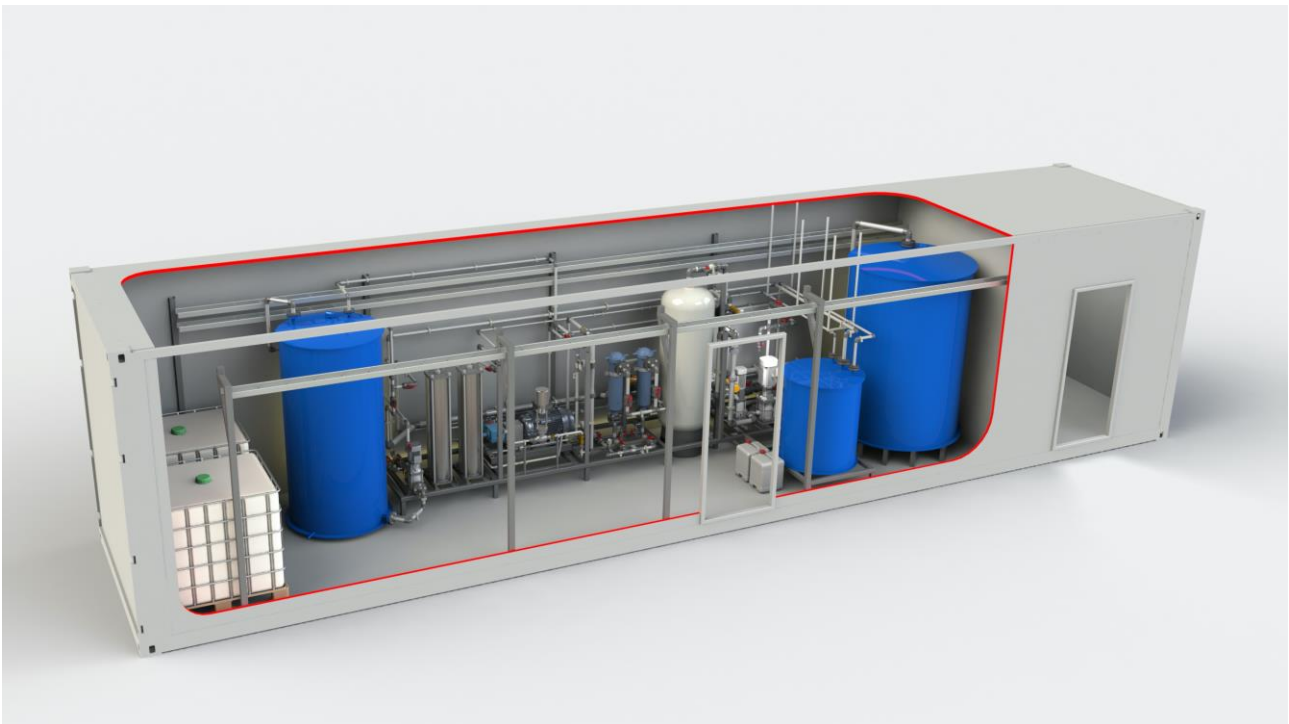


High pressure reverse osmosis unit (HP-RO)

Remotely monitored and partially remotely controlled, automated pilot sized high pressure reverse osmosis (HPRO) system with pre-treatment and integrated CIP (Cleaning in Place) system. Suitable for lengthy continuous on-site test runs. Suitable for landfill leachate treatment as well as mine wastewater treatments. Also suitable for ZLD (zero liquid discharge) or concentrate piloting. Disc tube membrane is highly resistant against fouling.



- Equipped with forced ventilation with integrated heat exchanger. Separated process, electricity and automation areas.
- Pre-treatment consisting of sand filtration and cartridge filtration.
- Process can be equipped with high pressure nano filtration modules.

Technical specifications

40-feet high cubic reefer container (HRF)		
Dry weight	8200	kg
Length	12.19	m
Width	2.44	m
Height	2.84	m
Theoretical recovery rate	>95	%
Number of filter cartridges	6	pcs
Type of membranes	DTGE HHP 160	bar
Max inlet flow	2.2	m ³ /h
Max permeate flow rate	0.8	m ³ /h
Max feed pressure	160	bar
Number of elements	2	pcs
Membrane surface area	18.9	m ²
Salt removal up to	99	%

Process connections

Electrical connections:	
Lightning and heating	32A (16A) @ 400VAC
Process electricity	63A @ 400 VAC
Feed pump control	16A @ 400 VAC
Water connections	
Feedwater	DN50 SS flange/2" male camlock
Permeate**	DN25 SS flange/1" male camlock
Concentrate**	DN25 SS flange/1" male camlock
Drain	DN50 SS flange/2" male camlock
Floor drain	1,5" SS male camlock x2

** Permeate and concentrate can be connected to drain