## AquaPak™100S

# 100m<sup>3</sup>/d Containerised Seawater RO Desalination Plant

Modern Water's AQUAPAK-100S desalination units are high specification, low cost, self-contained systems suitable for a variety of applications including potable or industrial water supply, temporary or emergency water supply, construction site water supply, the oil and gas industry as well as golf, resort or hotel complexes.

The AQUAPAK-100S is supplied containerised in a 20' unit that can be deployed and put into service in a short timeframe. It is manufactured using high quality components at an affordable price and is supplied and supported by Modern Water.

The AQUAPAK-100S combines Ultra-Filtration (UF) and Reverse Osmosis (RO) as standard within the process train. Other process configuration options are available to tailor the standard unit to your requirements, this could include additional pre or post treatment, storage solutions, operator training or full operational support.

TECHNICAL DATA			
Capacity		100 m³/day	
Туре		20ft container	
Dimensions		L 5.9mW 2.35m H 2.7m	
Shipping weight		ca. 5 T	
Operating weight		ca. 6T	
Connections (PN 10)		Power	
Feedwater	DN 40	Connection	380V, 50Hz, 3 Phase
RO permeate	DN 25		
RO concentrate	DN 32		
Potable water	DN 25		
Ventilation		Provided with an air conditioning unit	

The standard unit includes:

- Pressure vessels loaded with RO membranes
- High pressure pump
- CIP system including CIP tank
- Chemical dosing systems including post RO treatment for disinfection and remineralisation
- Cartridge filters
- Instrumentation
- Control panel PLC
- UF membranes
- UF backwash system including pump and blower
- Self cleaning strainer
- Filtered water storage tank



Supplied & supported by: Modern Water

#### **OPERATION SPECIFICATION**

Maximum feedwater temperature	18 - 40 degC	
Feedwater pressure	I - 3 bar	
Recovery	35% - 40%	
Hydrogen sulphide	< 0.1 mg/l	
Turbidity	<5NTU	
FeedwaterTDS	35,000 - 45,000 mg/l*	
pH tolerance	4 - 10	
Boron	< 5 mg/l	
Chemical consumption (list)	NaOCl, Coag, HCl, Antiscalant, SBS, CaCl, NaHCO3	
Nominal membrane rejection	99%	

<sup>\*</sup> Based on standard seawater composition

#### Typical Applications

- Potable or industrial
- Small scale packaged plants or multi plant larger
- Water supply for construction
- Temporary water supply for breakdown, emergency or
- Water supply during

#### **Key Benefits**

- Ouick to install
- Environmentally friendly
- Cost effective
- Fully supported
- High quality product water that meets

### Technical Support

- Planning
- Installation
- Training

Sales Contact

- Operation
- Maintenance visits / operational support
- Spares and consumables support

- ORP (RO feed) Low energy consumption

- Modular
- WHO guidelines for Drinking Water Quality

#### Process Options

permeate)

Key Instrumentation

pH (RO feed, post RO treatment)

Conductivity meter (RO feed, RO

Flow meter (UF feed, RO feed, RO

permeate, post RO treatment)

Pressure switch (RO feed, RO

Pressure sensor (UF feed, RO permeate)

FO and RO configurations

permeate, RO brine)

### Purchase / Finance Options

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<sup>\*</sup> Terms and conditions apply