

# HYDERPRO



## HYDERPRO Membrane Systems

Complete packaged ultra filtration and reverse osmosis systems, high performance with the flexibility for custom design



# Ultra Filtration

## High performance, low energy components for industrial and commercial applications.

Ultrafiltration is used for the separation of suspended solids, colloids, bacteria and virus. This technique uses membranes with pore size between 1-100nm.

The UF barrier process provides primary disinfection by removing pathogens and particulates to supply safe drinking water from the majority of non-saline surface and ground waters. The modules contain several small (0.6 to 2 mm diameter) tubes or fibers.

As the feed solution flows through the open cores of the fibers, the permeate is collected in the cartridge area surrounding the fibers. It can carry out the filtration in two ways, either “inside-out” or “outside-in”.

Predominantly the HYDERPRO UF systems utilise the “outside-in” technology with an air/water scour for backwashing.

## UC Series

- Flows up to 80,000 Litres/day
- Compact, stand alone Ultrafiltration systems
- Intelligent system controller
- Eco-flush cleaning cycle
- Heavy duty powder coated steel frame
- Optional, post treatment including UV and chlorination



## UI Series

- Flows up to 576,000 Litres/day
- Commercial packaged Ultrafiltration systems
- Outside-in filtration air/water backwash
- 200um sediment pre-filter
- Ports for CIP



# Reverse Osmosis

**High performance, heavy duty components and state of the art control equipment for long term reliable supply of high quality process water**

Reverse Osmosis (RO) is the tightest possible membrane process in liquid separation. Water is in principle the only material passing through the membrane; essentially all dissolved and suspended material is rejected.

The RO membrane acts as a barrier to all dissolved salts and inorganic molecules as well as organic molecules with a molecular weight of greater than approximately 100.

Water molecules pass freely through the membrane creating a purified product stream.

The HYDERPRO RO systems utilise the high performance, low energy FRP wrap style membranes to ensure maximum rejection of incoming suspended material.

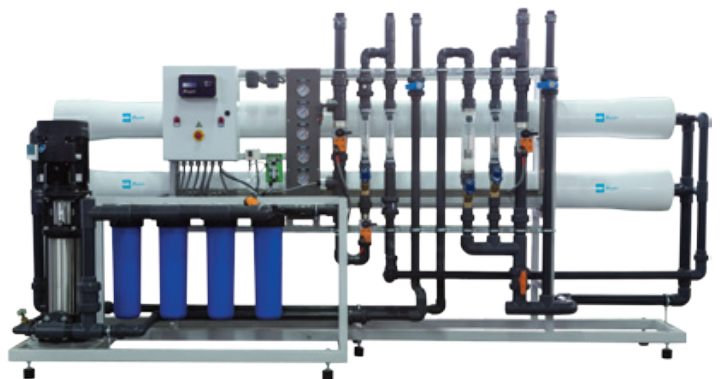
## RC Series

- Flows up to 3,600 Litres/day
- Compact design
- Consistent high capacity
- Built-in indicators for pre-filter replacement
- Dry run pump protection
- Quick connect pipe connections



## RI Series

- Flows up to 1,300,000 Litres/day
- Complete, compact package
- Intelligent controller & sensors
- Low energy membranes
- Flexible operation with adjustable flow rates
- Float switch, pressure protection & pressure switches



# Talk to an expert

# 1800 656 771

# HYDERPRO

## UI Series System Flows up to 80,000 L/day

Model	Production Flow	Membranes	Dimensions mm	(L x W x H)	Power Requirement	Product Code
UC20K	630 L/hr	1 membranes	480 x 325 x 1555		0.5kW	R0020000
UC40K	1,600 L/hr	2 membranes	670 x 325 x 1555		0.5kW	R0020100
UC60K	2,500 L/hr	3 membranes	860 x 325 x 1555		0.5kW	R0020200
UC80K	3,300 L/hr	4 membranes	1020 x 325 x 1555		0.5kW	R0020300

## UI Series System Flows up to 24,000 L/day

Model	Production Flow	Membranes	Dimensions mm	(L x W x H)	Power Requirement	Product Code
UI144K	6,000 L/hr	2 membranes	3000 x 1500 x 3200		240V, 50Hz	R0030000
UI288K	12,000 L/hr	4 membranes	4500 x 1500 x 3200		240V, 50Hz	R0030100
UI432K	18,000 L/hr	6 membranes	6000 x 1500 x 3200		240V, 50Hz	R0030200
UI576K	24,000 L/hr	8 membranes	7500 x 1500 x 3200		240V, 50Hz	R0030400

## RC Series System Flows up to 3,600 L/day

Model	Production Flow	Membranes	Dimensions mm	(L x W x H)	Power Requirement	Product Code
RC190	8 L/hr	1 membrane	410 x 150 x 420		-	R00000000
RC1000	58 L/hr	3 membranes	425 x 220 x 420		240V, 50Hz	R00005000
RC3000	150 L/hr	2 membranes	530 x 450 x 480		240V, 50Hz	R00010000

## RI Series System Flows up to 1,300,000 L/day

Model	Production Flow	Membranes	Dimensions mm	(L x W x H)	Power Requirement	Product Code
RI6K	280 L/hr	1 x 4040	550 x 400 x 1450		0.67kW	R00101000
RI10K	530 L/hr	2 x 4040	550 x 400 x 1450		0.67kW	R00102000
RI24K	1,000 L/hr	4 x 4040	700 x 600 x 1500		1.9kW	R00104000
RI28K	1,200 L/hr	1 x 8040	910 x 950 x 2000		3kW	R00105000
RI72K	3,000 L/hr	2 x 8040	1900 x 1150 x 1700		3kW	R00106000
RI96K	4,000 L/hr	3 x 8040	1900 x 1150 x 1700		4kW	R00107000
RI120K	5,000 L/hr	4 x 8040	2600 x 1150 x 1800		4kW	R00108000
RI168K	7,000 L/hr	6 x 8040	2600 x 1150 x 1800		7.5kW	R00109000
RI264K	11,000 L/hr	9 x 8040	4000 x 1300 x 2300		7.5kW	R00110000
RI336K	14,000 L/hr	12 x 8040	4000 x 1300 x 2300		18.5kW	R00111000
RI456K	19,000 L/hr	16 x 8040	5700 x 1600 x 2300		22kW	R00112000
RI528K	22,000 L/hr	20 x 8040	5700 x 1600 x 2300		22kW	R00113000
RI624K	26,000 L/hr	24 x 8040	5700 x 1600 x 2300		30kW	R00114000
RI768K	32,000 L/hr	30 x 8040	5700 x 1600 x 2600		30kW	R00115000
RI1056K	44,000 L/hr	40 x 8040	-		-	R00116000
RI1296K	54,000 L/hr	50 x 8040	-		-	R00117000