

REVERSE OSMOSIS TECHNOLOGIES

B R O C H U R E



**INDUSTRIAL & COMMERCIAL CAPABILITIES
TAPWATER / BRACKISH WATER / SEAWATER**

TAP PURE INDUSTRIAL MUNICIPAL OR LIGHT BRACKISH REVERSE OSMOSIS SYSTEMS FEED WATER UP TO 5,000 PPM TDS



230,000 GPD



280,000 GPD



60,000 GPD



50,000 GPD

TAP PURE MODEL	PRODUCT OUTPUT		
	US GPM	US GPD	m3/HR
10K	7	10,080	1.6
15K	10.42	15,000	2.36
20K	14	20,000	3.15
25K	17.63	25,384	4
30K	20.83	30,000	4.73
40K	28.18	40,580	6.4
50K	35.06	50,490	8
60K	42.26	60,857	9.6
80K	55.93	80,553	12.7
100K	70.64	101,727	16
144K	100	144,000	22.7
164K	114.46	164,819	26
190K	132	190,000	30
230K	160	230,366	36
255K	177.5	255,605	40
280K	195.24	281,000	44.3
324K	225	324,000	51
370K	256.97	370,000	58.3
405K	281.46	405,000	63.9
450K	314.96	453,544	71.58
500K	347.97	500,000	78.9

Production is based on
1,000 PPM TDS feedwater
@ 25 degrees celsius



Stainless Steel HP Piping

(PPM=Parts Per Million or (mg/l)

TDS=Total Dissolved Solids

TAP PURE INDUSTRIAL HIGH BRACKISH REVERSE OSMOSIS SYSTEMS FEED WATER UP TO 15,000 PPM TDS



300,000 GPD



30,000 GPD



Optional PLC Mimic
Interface Display



Stainless Steel HP Gauges 4"
Panel Mounted Instrumentation



500,000 GPD

TAP PURE MODEL	PRODUCT OUTPUT		
	US GPM	US GPD	m3/HR
10K-HBW	7	10,080	1.6
15K-HBW	10.42	15,000	2.36
20K-HBW	14	20,000	3.15
26K-HBW	18.3	26,400	4.1
30K-HBW	20.83	30,000	4.73
40K-HBW	28.18	40,580	6.4
50K-HBW	35.06	50,490	8
63K-HBW	43.75	63,000	9.9
80K-HBW	55.93	80,553	12.7
100K-HBW	70.64	101,727	16
144K-HBW	100	144,000	22.7
165K-HBW	114.60	165,000	26
190K-HBW	132	190,000	30
230K-HBW	160	230,366	36
255K-HBW	177.5	255,605	40
280K-HBW	195.24	281,000	44.3
324K-HBW	225	324,000	51
370K-HBW	256.97	370,000	58.3
405K-HBW	281.46	405,000	63.9
450K-HBW	314.96	453,544	71.58
500K-HBW	347.97	500,000	78.9

Production is based on
12,000 PPM TDS feedwater
@ 25 degrees celsius



PURE PRO COMMERCIAL SEAWATER REVERSE OSMOSIS DESALINATION SYSTEMS

36,000 PPM TDS



265,000 GPD Desalination Plant



Custom 10,000 GPD Explosion Proof



Filtration Skid



Multi-Media Pre-Treatment



Unique Layout & Design



Membranes & Stainless Steel Piping

PURE PRO MODEL	PRODUCT OUTPUT		
	US GPM	US GPD	m3/HR
10K-SW	7	10,080	1.6
13K-SW	9	13,000	2.05
16K-SW	11.11	16,000	2.52
20K-SW	13.88	20,000	3.15
25K-SW	17.36	25,000	3.94
30K-SW	20.8	30,000	4.7
40K-SW	27.8	40,000	6.3
50K-SW	34.7	50,000	7.9
60K-SW	41.66	60,000	9.4
80K-SW	55.55	80,000	12.6
100K-SW	69.4	100,000	15.8
121K-SW	84	121,000	19
140K-SW	97	140,000	22
160K-SW	111	160,000	25
190K-SW	132	190,000	30
220K-SW	153	220,000	35
250K-SW	174	250,000	40
275K-SW	191	275,000	43
300K-SW	208	300,000	47
330K-SW	230	330,000	52
360K-SW	250	360,000	57
400K-SW	277	400,000	63
430K-SW	298	430,000	68
460K-SW	319	460,000	72
500K-SW	347	500,000	79

Production is based on
36,000 PPM TDS feedwater
@ 25 degrees celsius

STANDARD FEATURES ON ALL TAP PURE RO SYSTEMS UP TO 15,000 PPM TDS

- Corrosion resistant fiberglass ASME approved RO housings (*)
- Skid mounted on heavy duty carbon steel frame, sand blasted, primed and fuse powder coated for maximum corrosion resistance
- High pressure centrifugal pump with heavy duty industrial motor
- High quality and high rejection reverse osmosis membranes. Thin film composite (TFC)
- Sample RO membrane product water ports
- System control electrical enclosure-NEMA 4 with indicator lights & selector switches
- Product water & reject water flowmeters. These are panel mounted electric flowmeters
- Stainless steel liquid filled low and high pressure gauges. 4 inches in diameter
- Inlet corrosion resistant automatic actuator valve
- Low inlet pressure & high pump pressure safety automatic cut-off switches
- Stainless steel high pressure regulator concentrate valve
- All components and sub-assemblies will be tagged accordingly
- All low pressure piping, valves and fittings will be inert, rigid polyvinylchloride schedule 80 and/or flexible polyethylene
- High pressure piping, valves and fitting will be stainless steel and/or Aeroquip flexible on Tap Pure HBW systems (**)
- Unique low voltage safety control and protection
- All components are high quality with FDA/NSF approval
- 3 to 1 pressure safety factor
- The equipment is factory tested and sterilized prior to shipment
- One year warranty on RO plant. Three years prorated warranty on the R/O membranes

AVAILABLE & RECOMMENDED OPTIONS ON TAP PURE RO SYSTEMS UP TO 15,000 PPM TDS

- Sediment 5 micron prefiltration
- Product water automatic float start/stop
- Digital pH monitor/alarm
- Digital Temperature monitor/alarm
- Digital TDS monitor/alarm
- Digital ORP monitor/alarm
- Stainless steel piping on high pressure side
- Stainless steel piping on product water side
- RO membranes cleaning in place system
- Dosage metering injection pump system(s)
- Hour meter
- Reject water recycle system
- Integrated (PLC) control system
- Digital panel mounted (PLC) mimic screen
- Stainless steel high pressure pump
- Automatic RO membrane flush system
- 50 Hz voltage
- Export crating & packing

* The RO Housings are standard in PVC for models: Tap Pure 10K to Tap Pure 30K (RO systems up to 5,000 PPM TDS)

**Stainless Steel high pressure piping for all RO systems up to 5,000 PPM TDS is optional

STANDARD FEATURES ON PURE PRO SEAWATER RO SYSTEMS

- Corrosion resistant fiberglass ASME approved RO housings
- Skid mounted on heavy duty carbon steel frame, sand blasted, primed and fuse powder coated for maximum corrosion resistance
- High pressure positive displacement ceramic plunger pump (Nicked aluminum bronze) with heavy duty industrial motor
- High pressure pump inlet & outlet dampeners
- High quality and high rejection reverse osmosis membranes. Thin film composite (TFC)
- Sample RO membrane product water ports
- System control electrical enclosure-NEMA 4 with indicator lights & selector switches
- Product water & reject water flowmeters. These are panel mounted electric flowmeters
- Stainless steel liquid filled low and high pressure gauges. 4 inches in diameter
- Inlet corrosion resistant automatic actuator valve
- Low inlet pressure & high pump pressure safety automatic cut-off switches
- Stainless steel high pressure regulator concentrate valve
- All components and sub-assemblies will be tagged accordingly
- All low pressure piping, valves and fittings will be inert, rigid polyvinylchloride schedule 80 and flexible polyethylene
- All high pressure piping, valves and fitting will be stainless steel and/or Aeroquip flexible
- Unique low voltage safety control and protection
- All components are high quality with FDA/NSF approval
- 3 to 1 pressure safety factor
- The equipment is factory tested and sterilized prior to shipment
- One year warranty on RO plant. Three years prorated warranty on the R/O membranes

AVAILABLE & RECOMMENDED OPTIONS ON PURE PRO SEAWATER RO SYSTEMS

- Sediment 5 micron prefiltration
- Digital pH monitor/alarm
- Digital Temperature monitor/alarm
- Digital TDS monitor/alarm
- Digital ORP monitor/alarm
- RO membrane cleaning in place system
- Automatic low quality product water by-pass valve
- Automatic RO membrane product flush
- Total hour meter
- 50 Hz voltage
- Integrated (PLC) control system
- Digital panel mounted (PLC) mimic screen
- Dosage metering injection pump system(s)
- Energy recovery unit (ERU)
- Export crating & packing

Features subject to change without notice

CUSTOM INDUSTRIAL CONTAINERIZED WATER TREATMENT AND WATER BOTTLING PLANTS AVAILABLE



Custom Containerized Systems 40 FT Container



Containerized Desalination Plants



Turnkey Containerized Bottling Plants



Custom Electrical, Plumbing, Insulation Installation



Optional Installed Generator, Air Compressor & A.C.



Custom Containerized Systems 20 FT Container



Recipient of the 1997 State of California, and U.S. Dept. of Commerce Export Achievement Award.



**SEVERN
TRENT
SERVICES**

UAT UNIVERSAL AQUA
 Tel: +1 (310) 618-9700 • Fax: +1 (310) 618-1204
 2660 Columbia Street • Torrance, California 90503 USA
www.severntrentservices.com • sales@universalacqua.com