



WATER SURPLUS®

726 Beacon St, Loves Park, IL 61111 | 815-636-8833 | 800-919-0888 | 815-636-8844 fx | www.watersurplus.com

EQUIPMENT DATA SHEET RO

Description	High Brackish RO
--------------------	------------------

Owner		Refurb. Yr
Watersurplus		2018

NORMAL OPERATING PARAMETERS			
Operating Water Temperature	70	°F	
Min. Inlet Water Pressure	30	PSI	
Maximum SDI	≤ 3		
Maximum Turbidity	≤ 1	NTU	
Max. Free Chlorine/chloramines	< 0.02	PPM	
Nominal Operating Pressure	1100	PSI	
Maximum Recovery	45	%	
Maximum TDS	35000	ppm	

POWER REQUIREMENTS						
GENERAL POWER		VAC	PH	HZ	Amps	Src
High Voltage	480	3	60	30	EXT	
Control Voltage	120	1	60	10	EXT	
PUMPS & MOTORS						
		VAC	PH	HZ	HP	Amps
Primary/First Pass	480	3	60	7.5	10	
Redund/Second Pass						
CIP						
Inlet Feed/Trans						

CONTROLS	
Main Controller	n/a
HMI	n/a
I/O Type	n/a
Motor Starter	Mag starter (AB)
Chem Pumps Qty.	Energized Outlets
Chm Pmp Ctrl Method	Manual

Asset #:	ROE3120129R
-----------------	-------------

EQUIPMENT TYPE	OEM
RO Unit	GE

UNIT CONFIGURATION		
# Passes	1	
# Stages	3	
Array	2:2:2	
Hsg Size,Mat'l,psi,Mfr	1M,FRP,XX,ROPV	
Total # membranes	6	
Pre-Filter Cartridge	5Micron , MB, BB housing	

FLOW SPECIFICATIONS		
Feed	11	gpm
Product	5	gpm
Reject	6	gpm
Recycle	n/a	gpm
Flush	n/a	gpm
Drain	n/a	gpm
Instrument Air	80	psi
	5	SCFM

PHYSICAL SPECIFICATIONS		
Length	62	inches
Width	26.4	inches
Height	29	inches
Weight (shipping)	700	lbs.
PV Housing Size	dia. x length (in.)	
Inlet Piping Material	3/4" FNPT PVC Sch 80	
Outlet Piping Material	3/4" FNPT PVC Sch 80	

AVAILABLE DOCUMENTATION					
Description		AVAIL	Description		AVAIL
Process & Instrumentation Diagram - P&ID		Y	Electrical Schematics		Y
Piping layout/General Arrangement		Y	Program Logic		N
Major Component List - MC List		Y	Operations/Maintenance Manuals		Y



WATER SURPLUS®

726 Beacon St, Loves Park, IL 61111 | 815-636-8833 | 800-919-0888 | 815-636-8844 fx | www.watersurplus.com

EQUIPMENT DATA SHEET RO

Description	High Brackish RO
--------------------	------------------

Asset #:	ROE3120129R
-----------------	-------------

Owner		Refurb. Yr
Watersurplus		2018

EQUIPMENT TYPE	OEM
RO Unit	GE

PROCESS CONNECTIONS (SIZES & LOCATION SYMBOLS)			
	Size & Type	Location Symbol	
Feed Inlet	3/4" PVC SCH 80	Front/right/top	
Permeate outlet	3/4" PVC SCH 80	Centre/top/left	
Concentrate to drain	3/4" PVC SCH 81	Centre/top/right	
CIP Inlet	3/4" PVC SCH 82	Same as Feed	
CIP Outlet	3/4" PVC SCH 83	Same as concentrate	
Instrument Air	1/4" TUBING	n/a	



MISCELLANEOUS INFORMATION

This is a refurbished Suez E4 Ultra unit with additional piping for a CIP cleaning. The system is capable of producing 5 gpm at 45% recovery. The feed and permeate piping is PVC Sch. 80 and high pressure concentrate is high pressure hosing. The RO housings are FRP. Unit has permeate and concentrate rotameter along with pressure indicators. Additional piping available for CIP cleaning. This unit has a mag. Starter for starting and stopping the pump.



WATER SURPLUS®

726 Beacon St, Loves Park, IL 61111 | 815-636-8833 | 800-919-0888 | 815-636-8844 fx | www.watersurplus.com

EQUIPMENT DATA SHEET RO

Description	High Brackish RO				Asset #:	ROE3120129R
Owner				Refurb. Yr	EQUIPMENT TYPE	OEM
Watersurplus				2018	RO Unit	GE
INSTRUMENTATION						
Pressure	Ind.	Sw.	Xmtr	Manufacturer	Part Number	
Low Inlet						
Pre-filter Inlet	X			SPAN	0-160 PSI , 2-1/2" dial , panel mount, 1/4" NPT conn.	
Pre-Filter Outlet Pump suction inlet	X	X		SPAN Hubble	0-1500 PSI , 2-1/2" dial , panel mount, 1/4" NPT conn. Low pressure switch	
Membrane Feed	X			SPAN	0-1500 PSI , 2-1/2" dial , panel mount, 1/4" NPT conn.	
Interstage				n/a		
Permeate				n/a		
Reject	X			SPAN	0-1500 PSI , 2-1/2" dial , panel mount, 1/4" NPT conn.	
Conductivity						
Inlet				n/a		
Permeate			X	GF-Signet	(3-2850-51-40V),1.0 cell constant, 10000ppm,S3L output,2840 sensor	
Concentrate				n/a		
Analyzer	X		X	n/a	(3-9900-1P)- Multi parameter transmitter , panel mount with NEMA 4 enclosure	



WATER SURPLUS®

726 Beacon St, Loves Park, IL 61111 | 815-636-8833 | 800-919-0888 | 815-636-8844 fx | www.watersurplus.com

EQUIPMENT DATA SHEET RO

Description	High Brackish RO				Asset #:	ROE3120129R
--------------------	------------------	--	--	--	-----------------	-------------

Owner				Refurb. Yr	
Watersurplus				2018	

EQUIPMENT TYPE	OEM
RO Unit	GE

Flow					
Inlet				n/a	
Permeate	X			Blue-White	Rotameter , 1-10 gpm, 250psi (max.) , 316 Stainless internals, panel mount, 1" NPT conn.
Reject	X			Blue-White	Rotameter , 1-10 gpm, 250psi (max.) , 316 Stainless internals, panel mount, 1" NPT conn.
Recycle				n/a	
Monitor				n/a	

Other					
pH				n/a	
ORP				n/a	

MAJOR COMPONENTS					
Pumps	Manufacturer	Model	Desc		
First Pass / Feed	Danfoss	APP2.2	Multi stage centrifugal, 316SST casing,10.63 gpm @ 1160 psi Max , 460VAC , 60Hz, 3pH , 7.5 HP,TEFC		
Second Pass		n/a			
CIP		n/a			