



XSCPRF3E-A7Y-3GPO2S

Manufactured in Australia to suit the harshest conditions. This series is designed to provide a compact solution for your water treatment requirements. The use of high quality components & sensors make servicing easier & ensure consistent results. The heart of the system is the XS controller providing precise & flexible treatment options to suit changing environmental conditions.

KEY FEATURES & CAPABILITIES:

- Conductivity/TDS control with Temp compensation
- ORP sensor, ground reference & selectable control
- pH sensor, ground reference & selectable control
- Secondary Biocide Timer with Pre-bleed & lockout
- Inhibitor via multi-selection timer interlocked
- Dispersant via multi-selection timer interlocked
- Water usage & volume alarm of up to six meters
- Flow switch for alarming & automating control
- Interlinked dosing & chemistry control
- High Level Interface via BACnet or Modbus capable
- Web Based remote control, alarming & auto reporting
- USB for download and upload of data
- On screen graphic view of measures
- Layered security & program change event memory
- Motorised Bleed valves to inhibit fouling potential
- Five digital inputs for low level chemical alarms
- High quality servicable flow manifold components
- Reliable & easy to maintain Peristaltic dose pumps

GENERAL SPECIFICATIONS:

- 1 x Electrical inputs 230-240VAC max 10 amp
 - Controller less than 2 amp
- XS Controller control outputs at 240VAC with non volatile memory
 - 2 x 15mm Motorised valves, less than 100mA each
 - 3 x Weather resistant GPOs run from 3 x individual control relays rated at 2amp each
- Conductivity measure, Us/cm, ms/Cm, PPM scale is 0-15000 using E-4A sensor
- Temperature reading & compensation via E-4A sensor
- ORP sensor, low fouling double junction, OE-21
- pH sensor, low fouling double junction, PE-21
- Accuracy: +/- 1%
- Feed Timers (5) selectable include:
 - 2 x Water Meter inputs , pulse or dry contact
 - 5 x Auxiliary flow meter inputs, pulse or dry contact
 - Flow sensor 20mm incorporated to manifold
 - Manifold 20mm Sched. 80 PVC with servicable parts

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XS CONTROLLER SPECIFICATIONS:

ELECTRICAL

- Electrical inputs 95-240VAC
- Control output = input voltage
- 5 x Control relays fuse protected to 2.5amp each
- XS Controller control utilises non volatile memory
- Enclosure is heavy duty high impact ABS IP67
- Lockable Gasketed Lexan viewing door to keypad

OPERATIONAL

- Conductivity measure, Us/cm, ms/Cm, PPM scale is 0-15000 using E-4A sensor
- Temperature compensation & measure
- ORP control, low fouling double junction sensor
- pH control, low fouling double junction sensor
- Accuracy: +/- 1%
- 2 x Water Meter inputs
- 5 x Auxiliary flow meter inputs
- Flow sensor 20mm incorporated to manifold
- 5 x digital inputs for low level tank etc
- 5 x timers, selectable types, 28 day, percent, recycle, pulse, post bleed, with bleed
- Environment -17-55 Celsius, Humidity 0-100%

MOTORISED VALVE SPECIFICATIONS:

ELECTRICAL

- Powered from control relay of XS controller
- Electrical input 240VAC
- Less than 500mA operating current
- Power open & spring assisted capacitor close

OPERATIONAL

- Maximum pressure 10 bar
- Open/Close time less than 5 seconds
- Actuator rotation is 90 degree
- Operating Temperature -15-50 Degree
- Liquid Temperature 2 -90 degree celsius

HARDWARE

- Reinforced PP electronic casing
- IP67 protection rating
- Polycarbonate clear view direction indicator
- Valve body & ball are 304 stainless steel
- Seals are PTFE
- Size of valve standard is DN15
- Note: valves on skid can be supplied as DN20 on request

INSTALLATION OPTIONS:

COMMUNICATIONS:

- High level interface via BACnet
- High Level Interface via MODBUS
- High level interface via Lonworks
- Web based monitoring, control & reporting
- Ethernet port for local site connection via RJ45
- 4G router/modem package for mobile network
- Alarming via email on out of spec settings
- Network 4G hub for multi type connections
- Low level interface via 4 x 4-20mA
- Low level inputs via 4 x 4-20mA

EROSION FEEDERS

- 12kg, 25kg small bromine tablet capacity
- Maximum pressure rated 3.5 bar

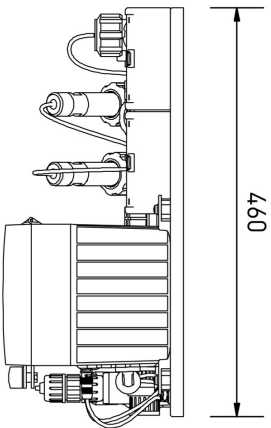
CORROSION RACK

- ASTM compliant with flow meter & control
- 2 or 4 x quick release coupon holders with nylon coupon mounting assembly
- Electronic **Realtime corrosion measurement**

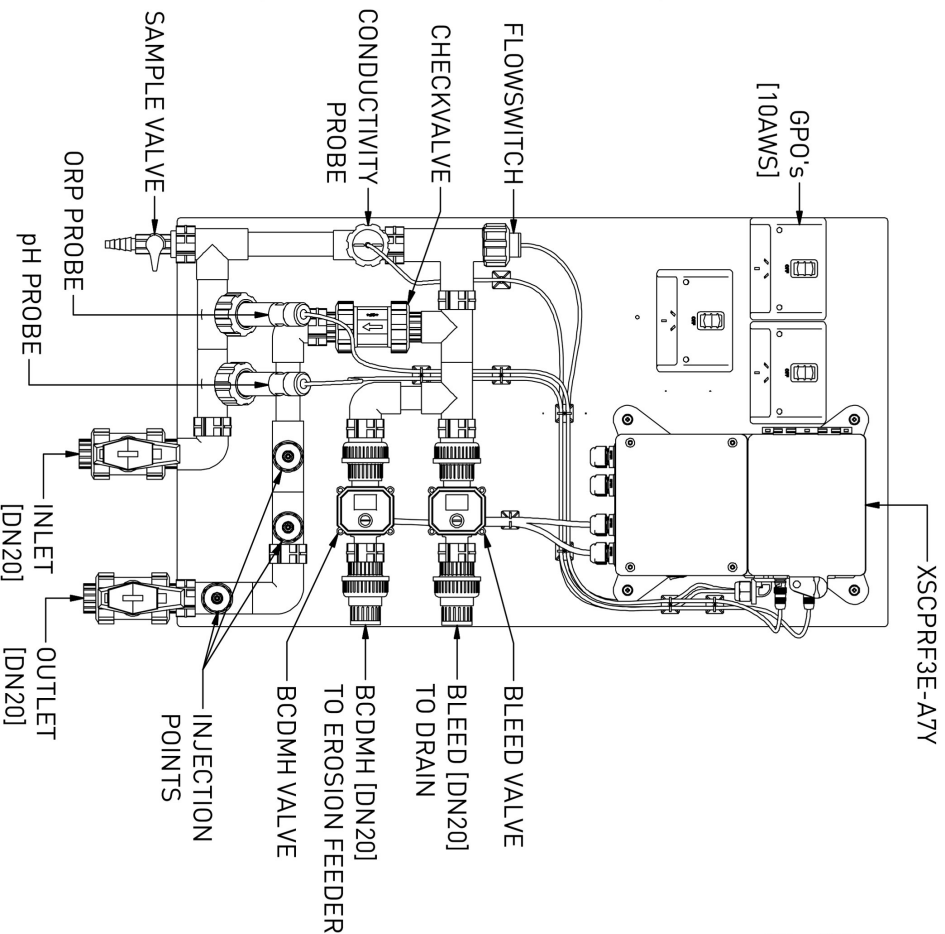
OUTER ENCLOSURES

- House XS controller & pumps is polycarbonate 600 x 400 x 250mm lockable
- House complete treatment system in outer enclosure

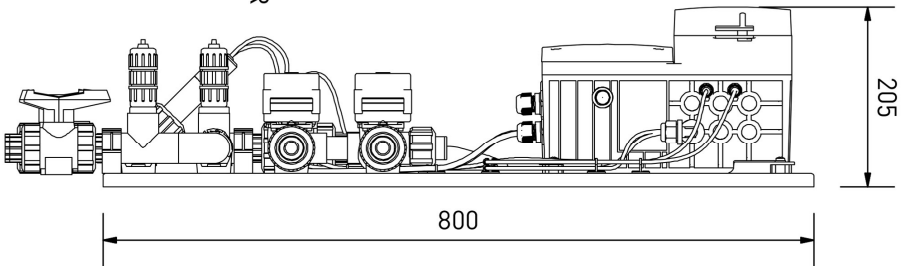
CIRCULATION PUMP, provide independent 24/7 flow and treatment of tower water



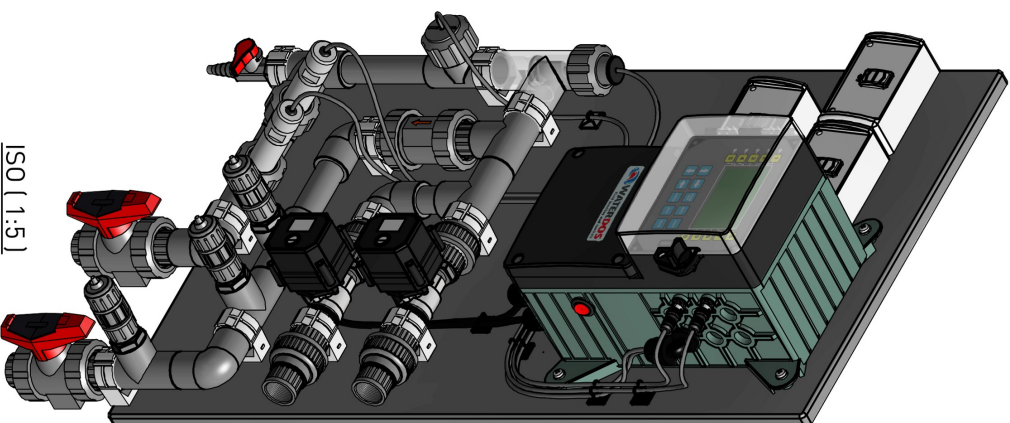
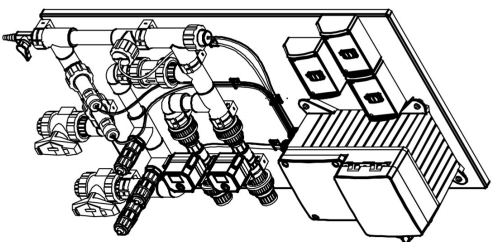
TOP [1:6]



FRONT [1:6]



RIGHT [1:6]



ISO [1:5]

MATERIAL		DESIGN	DATE
FINISH		CHECKED	27/02/2018
DRAWING NO.		APPROVED	DATE
46-805708		DESIGN	DATE
PROJECT NO.		WATERDOS	STATUS
TOLERANCES		WEIGHT	N/A
UNLESS		THIRD ANGLE PROJECTION	
INDICATED			
ISO 2768-C			
ISO 2768-C			
WATERDOS fluid handling and controls			
WATERDOS INSTRUMENTS AUSTRALASIA			
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TITLE			
XSCPRF3E-A7Y-3GP02S			
SIZE		SCALE	REV
A3		0	1 OF 1