AYSIX technologies

TECHNICAL SPECIFICATIONS

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Performance

Sample extraction method:	Air pump vacuum system.
Maximum lift height:	> 7 metres.
Transport velocity (nominal):	0.5 metres / sec.
Sample shot volume range:	10 - 500 ml (10-100ml when sampler is used with either of the 12 bottle bottlers).
Sample shot cycle time :	Approx. 30 seconds (with 4 metres lift).
Intake hose purging:	Air purging before and after sample induction.
Wetted parts – Materials of construction,	
Sample chamber /Sample chamber top:	Glass / polypropylene / silicone rubber / stainless steel.
Intake hose:	PVC / Polyurethane.
Sample collection vessels:	1x10L Polypropylene. 1x25L Polyethylene. 2x4.5L Polypropylene. 4x4.5L Glass. 4x5L Polyethylene. 12x0.7L Glass. 12x1L P.E.T.. 24x1L Polypropylene.
Intake hose:	10 metre long nylon reinforced flexible PVC incorporating coarse intake filter.
Sample tract diameter:	12mm increasing to 16mm (22mm when bottler is in use) between sample intake and sample discharge.
Maximum sample media temperature:	60°C.

Ambient temperature range,	min °C	max °C
Aquacell S2-W:	0	+45
Aquacell S2-R:	+15	+40
Aquacell S2-K:	0	+45
Aquacell S2-KH:	-15	+45
Aquacell S2-RK:	+15	+40
Aquacell S2-RK32:	-10	+40

Mechanical

Dimensions (mm),	Height	Width	Depth	Weight
Aquacell S2-W (with 1x10):	730	475	315	7.5kg.
Aquacell S2-R:	–	500	600	46kg.
Aquacell S2-K:	1635	790	790	100kg.
Aquacell S2-KH:	1635	790	790	102kg.
Aquacell S2-RK:	1635	790	790	125kg.
Aquacell S2-RK32:	1635	790	790	128kg.

Weight add-ons over 1kg,	
Back-up battery / float charger:	2.7 kg.
Mains connection:	1.6 kg.
Bottler:	6.0 kg.
Self-emptying bottler:	6.0 kg.
Bottler connection, self emptying (S2-R, S2-RK, S2-RK32 only):	3.5kg.

Construction,	
Sampler / collection vessels:	Plastic mouldings with stainless steel brackets and shelves.
Environmental protection (sampler module):	Electrical / electronic components housed in sealed humidity controlled enclosure.
Environmental suitability / IP rating,	
Aquacell S2-W:	Outdoor / IP55.
Aquacell S2-R:	Indoor / not IP rated.
Aquacell S2-RK:	Indoor / IP55.
Aquacell S2-K / KH / RK32:	Outdoor / IP55.
Humidity control:	Dessiccant bag with 3 stage humidity indicator on control panel.
Security,	
Aquacell S2-W:	Lockable front cover.
Aquacell S2-R:	Lockable front cover on sampler module.
All kiosk based samplers:	Lockable handle on kiosk front door.

Power Supply

Power requirement:	110 / 230VAC @ 50 / 60HZ.	
Power consumption (VA),	*110V supply*	*230V supply*
Aquacell S2-W:	60.	60.
Aquacell S2-R:	335. (9.5A.)*	335. (7.5A.)*
Aquacell S2-K:	60.	60.
Aquacell S2-KH:	689.	737.
Aquacell S2-RK:	335. (9.5A.)*	335. (7.5A.)*
Aquacell S2-RK32:	964. (15.5A.)*	1012. (10.5A.)*

*Surge current for 1 second maximum.

User Interface

Control panel:	17 button keypad with 16 x 2 alpha numeric liquid crystal display.
Remote control input [1]:	Normally open volt free contact pair.
Integrated flow input [1]:	Normally open volt free contact pair.
Instantaneous flow input [1]:	4-20 mA into 255 ohm.
Sample acquired output [1]:	Normally open volt free 50V DC 1A contact pair will close for 2 seconds when the sample induction phase is terminated by water bridging the electrodes in the sample chamber.
Sampler malfunction output [1]:	Normally open volt free 50V DC 1A contact pair will close when system is healthy and open for 2 seconds or longer when one or more of the following fault conditions occur: 1. Probe open circuit. 2. Probe short circuit. 3. Guard probe hit. 4. Low voltage. 5. Timed out . 6. Bottler fitted (when optional bottler is fitted but sampler is programmed for no bottler). 7. Bottler missing (when optional bottler is not fitted but sampler is programmed for bottler). 8. Bottler failed. 9. Power supply failed (where there is no battery backup). 10. Ancillary signal cable open circuit.
RS232 output[2]:	9 pole 'D' connector suitable for connecting to the serial port of a PC.
PC software requirement[2]:	Microsoft™ Windows 95, Microsoft™ Windows 98, or Microsoft™ Windows 2000 and Microsoft™ Hyper Terminal.

Standards Compliance

Water quality - Sampling - Part 10: Guidance on sampling of waste waters:	ISO 5667 - 10.
EC Directive 89/336/EEC on electromagnetic compatibility (EMC),	
Emissions standard:	EN 50081 - 1.
Immunity standard:	EN50082 - 1.
EC Directive 73/23/EEC on safety objectives for the low voltage directive:	BS EN 61010 - 1.
UK Environment Agency specification for automatic sampling equipment for UWWTR applications (Aquacell S2-RK32 only):	E32.

[1] Requires Ancillary signal connection (Fitted) Part No. CL-4004.

[2] Requires RS232 interface (Fitted) Part No. CL-4006.

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