

PRODUCT CONFORMITY CERTIFICATE

This is to certify that the

**Portable Automatic Wastewater Samplers
Aquacell P2-COMPACT, Aquacell P2-COOLBOX,
Aquacell P2-MULTIFORM**

**Stationary Automatic Wastewater Samplers
Aquacell S50, Aquacell S100 & Aquacell S200 (Formally S2R),
Aquacell S310, S310H, S320, S320H & S320H+S50
Aquacell S510, S510H, S520 & S520H**

Manufactured by:

Aquamatic Ltd

Irlam Business Centre
Soapstone Way, Irlam
Manchester
M44 6GP, UK

has been assessed by Sira Certification Service
and for the conditions stated on this certificate complies with:

**MCERTS Performance Standards and Test Procedures for Continuous Water
Monitoring Equipment – Part 1, Version 4, April 2017 & EN 16479:2014**

Certification Range :

Lift height 0 to 7 metres (AC mains powered)
 0 to 5 metres (Battery powered)
Sample line diameter nominally 12.5mmID

Project No.: 80047861
Certificate No: Sira MC050059/19
Initial Certification: 24 June 2011
This Certificate issued: 08 July 2020
Renewal Date: 28 June 2025



Emily Alexander
Environmental Project Engineer

MCERTS is operated on behalf of the Environment Agency by

Sira Certification Service

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Approved Site Application

Any potential user should ensure, in consultation with the manufacturer, that the monitoring system is suitable for the intended application. For general guidance on monitoring techniques refer to the Environment Agency Monitoring Technical Guidance Notes available at www.mcerts.net

The product is suitable for use on applications for compliance with the Urban Wastewater Treatment Regulations

The P2-COMPACT, P2-MULTIFORM, S50 and S100 samplers are suitable for applications where the wastewater being sampled is not required to be refrigerated.

The P2-COOLBOX is a portable sampler designed to operate at sites where the sample must be kept cool but there may be no power available. The manufacturer states that sampling of wastewater for compliance with the Urban Wastewater Treatment Regulations is the most common application for the sampler. This unit is suitable for applications where the wastewater being sampled is required to be stored at a nominal 4°C

The S200 (formally S2R) is a floor standing stationary sampler with the sampler module mounted to the top of a cabinet refrigerator intended for indoor sites where samples are biological and required to be stored at a nominal 4°C

The S310 sampler is designed for mainly indoor sites where the ambient temperature is between +5°C and +50°C. The sampler is suitable for applications where the wastewater being sampled is not required to be refrigerated.

The S310H sampler is designed for mainly outdoor sites where the ambient temperature is between -10°C and +40°C as standard (+50°C where specified). The sampler is suitable for applications where the wastewater being sampled is not required to be stored at 4°C

The S320 sampler is designed for mainly indoor sites where the ambient temperature is between +5°C and +40°C. The sampler is suitable for applications where samples are biological and required to be stored at a nominal 0-5°C.

The S320H (and S320H+S50) sampler is designed for mainly outdoor sites where the ambient temperature is between -10°C and +40°C as standard (+50°C where specified). The sampler is suitable for applications where samples are biological and required to be stored at a nominal 0-5°C.

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The S510 sampler is designed for mainly indoor sites where the ambient temperature is between 0°C and +50°C. The sampler is suitable for applications where the wastewater being sampled is not required to be refrigerated.

The S510H sampler is designed for mainly outdoor sites where the ambient temperature is between -10°C and +50°C. The sampler is suitable for applications where the wastewater being sampled is not required to be refrigerated.

The S520 sampler is designed for mainly indoor sites where the ambient temperature is between +5°C and +30°C. The sampler is suitable for applications where samples are biological and required to be stored at a nominal 4°C

The S520H sampler is designed for mainly outdoor sites where the ambient temperature is between -10°C and +50°C. The sampler is suitable for applications where samples are biological and required to be stored at a nominal 4°C

Basis of Certification

This certification is based on the following Test Report(s) and on Sira's assessment and ongoing surveillance of the product and the manufacturing process:

WRc report	Ref: UC 3867 dated June 2001
WRc report	Ref: UC 3379 dated May 1999
Polestar Cooling Ltd report	dated November 2005
Polestar Cooling Ltd report	Ref: 003 dated March 2007
Sira Report	Report number 16W22378 dated 22 October 2010
Sira Report	Power Performance Test V3 dated 25 September 2015
Sira Report	DC Power Performance V1 dated 27 April 2016
Sira Report	Impulse trigger sampling report, V1 dated 17 May 2016

Product Certified

The Aquamatic sampler consists of the following parts:

- Aquacell P2 or SXXXX
- Aquamatic nominal 12V Battery

This certificate applies to all products with serial number 0219 onwards (Each Aquacell sampler has a serial number comprising the core serial number with prefix and suffix to describe the model and various build options).

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Certified Performance

The instrument was evaluated for use under the following conditions:

Ambient Temperature Range: -10°C to +40

°C

The following results are on the P2 Coolbox waste water sampler unless otherwise stated.

Test	Results		MCERTS specification
Sample Collection	Option for both timed and flow proportional sampling.		Clause 3.1.2
Sample Interval <ul style="list-style-type: none"> Time proportional sampling Flow proportional sampling 	Sample Interval range 1min to 99hrs 99mins 1min interval is selectable 4-20mA and pulse inputs accepted Number of pulses per sample adjustable		Clause 3.1.2
Sample failure	Warning given on display both while programme is running and when complete.		Clause 3.1.2
Sample line diameter (internal)	Intake line:	Nominally 12.5mm ID	Clause 3.1.2, >9mm
Sample volume	Sample volume adjustable		Clause 3.1.2
Maximum volume of a discrete sample that can be set Total storage capacity both by numbers and volumes of individual bottles and in a composite container	500ml 5 litre composite container		Clause 3.1.2
Maximum sampling head	7 metres (AC mains powered) 5 metres (Battery powered)		Clause 3.1.2
Sampling volume error a) Time proportional	<p style="text-align: center;">U*</p> 1m 1.53 3.5m 4.57 7m 4.31 Average: 3.47	<p style="text-align: center;">X*</p> 1m 4.28 3.5m 4.54 7m -2.39 Average: 3.74	Clause 6.4.1.1 Note 1 <5.0%
Sampling principles	All available sampling principles were tested. Clause 6.4.2.2 was fulfilled using data from 6.4.1.1. No significant timing errors were seen.		Clause 6.4.2
Sample line velocity	0.82 m/s at 1m sampling head 0.71 m/s at 2m sampling head 0.61 m/s at 3m sampling head 0.59 m/s at 4m sampling head 0.56 m/s at 5m sampling head 0.53 m/s at 6m sampling head 0.50 m/s at 7m sampling head		Clause 6.4.3 >0.5m/s Note 2

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Test	Results	MCERTS specification
Supply voltage <i>AC (206 to 230V / 100 to 110 V)*</i> <i>Battery (11.5 to 14.6V)*</i> *Tested ranges	0 to 7 metre – >0.50 m/s 0 to 5 metre – >0.50 m/s	Clause 6.4.4 >0.5 m/s >0.5 m/s Note 3
Sample integrity	No statistically significant difference found in the analysis for suspended solids, total N, total P, BOD ₅ and COD	Clause 6.4.5 Annex B5
Sample timing error	1 sec/24hr	Clause 6.4.6 <±10sec/24hr
Sample temperature control a) without sample temperature control: effect on volume	Not tested: Sample volume is calculated according to a volume control tube, which would not be affected by ambient temperature	Clause 6.4.7.2 ±5%
Sample temperature control P2 Coolbox b) with sample temperature control (maintain sample between 0°C to 5°C)	During sample period: 24hrs after sample period: 3.22°C at -10°C 0.63°C at -10°C 3.74°C at 15°C 0.82°C at 15°C 4.12°C at 40°C 1.77°C at 40°C At the end of the tests at -10°C it was observed that a thin layer of ice had formed on the sample, the data indicated that freezing may have begun approximately 16 to 18 hours after the completion of the sampling period.	Clause 6.4.7.3 Maintain sample between 0°C to +5°C Annex B7
Sample temperature control S2-R b) with sample temperature control (maintain sample between 0°C to 5°C)	During sample period: 24hrs after sample period: 4.95°C at -10°C 2.65°C at -10°C 4.65°C at 15°C 2.15°C at 15°C 4.75°C at 40°C 1.85°C at 40°C An initial test carried out at +40 °C, with the removable lid fitted to the sample bucket and the sample line inserted through the spout, gave an average sample temperature of 5.6 °C during the sampling period. Aquamatic advised that for full cooling efficiency the lid should be removed from the bucket when it is placed in the sampler and subsequently refitted prior to removing the bucket at the end of a sampling run. The tests were therefore carried out with the lid removed. The removal of the lid, whilst improving the cooling efficiency, does increase the risk of splashing and spillage of the contents	Clause 6.4.7.3 Maintain sample between 0°C to +5°C Annex B7
Sample temperature control S500 range b) with sample temperature control (maintain sample between 0°C to 5°C)	During sample period: 24hrs after sample period: 4.75°C at -10°C 2.85°C at -10°C 4.55°C at 20°C 2.53°C at 20°C 4.67°C at 40°C 2.98°C at 40°C	Clause 6.4.7.3 Maintain sample between 0°C to +5°C Annex B7

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Test	Results		MCERTS specification
Sample temperature control S300 range b) with sample temperature control (maintain sample between 0°C to 5°C)	During sample period: 4.67°C at -10°C 4.19°C at 20°C 4.52°C at 40°C	24hrs after sample 2.77°C at -10°C 2.17°C at 20°C 2.83°C at 40°C	Clause 6.4.7.3 Maintain sample between 0°C to +5°C Annex B7

Note 1: *U: Expanded uncertainty

*X: Mean error

Note 2: Requirement fulfilled using test data from original certification to previous version of the MCERTS standard

Note 3: MCERTS minimum requirements were not met above 5m lift height for battery powered samplers. The certification range is therefore restricted to 0 to 5m for battery powered samplers (please note, the power supply test 6.4.4 is new to V3.1 of the MCERTS performance standard)

Description

Aquacell P2-COMPACT wastewater sampler

The P2 COMPACT wastewater sampler extracts individual samples from a wastewater channel or vessel, according to a predetermined programme and deposits them into a 5 litre sample collection vessel contained within a plastic support structure. In this way the user is provided with a representative sample of the wastewater discharge. The sampler weighs 6 kg (excluding collection vessel) and can be operated from either battery (supplied by Aquamatic) or mains power, or a combination of mains with standby battery (supplied by Aquamatic). The manufacturer states that the equipment is IP65 rated and is equally suited to indoor or outdoor use.

Aquacell P2-COOLBOX wastewater sampler

The P2 COOLBOX wastewater sampler extracts individual samples from a wastewater channel or vessel, according to a predetermined programme and deposits them into a 5 litre sample collection vessel contained within a cooled insulated housing. In this way the user is provided with a representative sample of the wastewater discharge, which the manufacturer states can be stored up to 7 days* between 0°C and 5°C (this is the optimum storage temperature for biodegradable samples to ensure minimum sample degradation). Cooling is provided by a pair of cooling elements which are frozen, prior to their deployment in the sampler's container housing.

The sampler weighs 17.7 Kg (excluding collection vessel) and can be operated from either battery (supplied by Aquamatic) or mains power, or a combination of mains with standby battery (supplied by Aquamatic). The manufacturer states that the equipment is IP65 rated and is equally suited to indoor or outdoor use.

* This figure is dependent on the sampler's operating parameters and the ambient temperature. It is provided only as a guide.

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Aquacell P2-MULTIFORM wastewater sampler

The P2 MULTIFORM wastewater sampler extracts individual samples from a wastewater channel or vessel, according to a predetermined programme and deposits into various options of detachable sample collection vessels (25L, 12 x 0.7L, 12 x 1L, 24x 0.9L).

The sample collection vessel is contained within a tubular metal support structure. In this way the user is provided with a representative sample of the wastewater discharge. The sampler weighs 6.5 kg (excluding collection vessel) and can be operated from either battery (supplied by Aquamatic) or mains power, or a combination of mains with standby battery (supplied by Aquamatic). The manufacturer states that the equipment is IP65 rated and is equally suited to indoor or outdoor use.

Aquacell S50 & S100 wastewater samplers

The S50 and S100 wastewater samplers extracts individual samples from a wastewater channel or vessel, according to a predetermined programme and deposits into various options of detachable sample collection vessels (25L, 2 x 4.5L, 4 x 4.5L, 4 x 5L, 12 x 0.7L, 12 x 1L, 24 x 0.9L).

The sample collection vessel is supported independently of the sampler. In this way the user is provided with a representative sample of the wastewater discharge. The sampler weighs 7.5 kg (excluding collection vessel) and can be operated from either mains power, or a combination of mains with standby battery (supplied by Aquamatic). The manufacturer states that the equipment is IP65 rated and is equally suited to indoor or outdoor use.

Aquacell S200 (formally S2R) wastewater sampler

The S2-R wastewater sampler extracts individual samples from a wastewater channel or vessel, according to a predetermined programme and deposits into various options of detachable sample collection vessels (25L, 2 x 4.5L, 4 x 4.5L, 4 x 5L, 12 x 0.7L, 12 x 1L, 24 x 0.9L).

The sample collection vessel is contained within a temperature-controlled housing. In this way the user is provided with a representative sample of the wastewater discharge, preserved at a temperature between 0°C and 5°C (this is the optimum storage temperature for biodegradable samples to ensure minimum sample degradation). The sampler weighs 46 kg (excluding collection vessel) and can be operated from either mains power, or a combination of mains with standby battery (supplied by Aquamatic). The manufacturer states that the equipment is not IP rated, and is designed for indoor applications only.

Aquacell S310 wastewater sampler

The S310 wastewater sampler comprises a metal cabinet (Choice of galvanised steel powder coated white, stainless steel or stainless steel powder coated white) divided into separately lockable upper sampler compartment, and lower sample collection vessel compartment. It extracts individual samples from a wastewater channel or vessel, according to a predetermined programme and deposits into various options of detachable sample collection vessels (10L, 25L, 2 x 4.5L, 4 x 4.5L, 4x 5L, 12 x 0.7L, 12 x 1L, 24 x 1L). Plus a choice of integral sample collection vessels (2 x 4.5L, 4 x 4.5L, 4x 5L, 4 x 12L, 12 x 1L, 24 x 1L).

The sample collection vessel is contained within an insulated housing. In this way the user is provided with a representative sample of the wastewater discharge. The sampler weighs approximately 101 kg (excluding collection vessel) and can be operated from either mains power, or

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a combination of mains with standby battery (supplied by Aquamatic). The manufacturer states that the equipment is IP54 rated* and is designed for mainly indoor applications

Aquacell S310H wastewater sampler

The S310H wastewater sampler comprises a metal cabinet (Choice of galvanised steel powder coated white, stainless steel or stainless steel powder coated white) divided into separately lockable upper sampler compartment, and lower sample collection vessel compartment. It extracts individual samples from a wastewater channel or vessel, according to a predetermined programme and deposits into various options of detachable sample collection vessels (10L, 25L, 4 x 4.5L, 4x 5L, 12 x 0.7L, 12 x 1L, 24 x 1L). Plus a choice of integral sample collection vessels (2 x 4.5L 4 x 4.5L, 4x 5L, 4 x 12L, 12 x 1L, 24 x 1L).

The sample collection vessel is contained within an insulated housing. In this way the user is provided with a representative sample of the wastewater discharge. The sampler weighs approximately 103 kg (excluding collection vessel) and can be operated from either mains power, or a combination of mains with standby battery (supplied by Aquamatic). The manufacturer states that the equipment is IP54 rated* and is designed for mainly outdoor applications (*Incorporates Aquacell Sampler Module rated at IP65).

Aquacell S320 wastewater sampler

The S320 wastewater sampler comprises a metal cabinet (Choice of galvanised steel powder coated white, stainless steel or stainless steel powder coated white) divided into separately lockable upper sampler compartment, and lower sample collection vessel compartment. It extracts individual samples from a wastewater channel or vessel, according to a predetermined programme and deposits into various options of detachable sample collection vessels (10L, 25L, 4 x 4.5L, 4x 5L, 12 x 0.7L, 12 x 1L, 24 x 1L). Plus a choice of integral sample collection vessels (2 x 4.5L 4 x 4.5L, 4x 5L 4 x 12L, 24 x 1L).

The sample collection vessel is contained within a temperature-controlled housing. In this way the user is provided with a representative sample of the wastewater discharge, preserved at a temperature between 0°C and 5°C (this is the optimum storage temperature for biodegradable samples to ensure minimum sample degradation). The sampler weighs approximately 118 kg (excluding collection vessel) and can be operated from either mains power, or a combination of mains with standby battery (supplied by Aquamatic). The manufacturer states that the equipment is IP54 rated* and is designed for mainly indoor applications

Aquacell S320H wastewater sampler

The S320H wastewater sampler comprises a metal cabinet (Choice of galvanised steel powder coated white, stainless steel or stainless steel powder coated white) into separately lockable upper sampler compartment, and lower sample collection vessel compartment. It extracts individual samples from a wastewater channel or vessel, according to a predetermined programme and deposits into various options of detachable sample collection vessels (10L, 25L, 4 x 4.5L, 4x 5L, 12 x 0.7L, 12 x 1L, 24 x 1L). Plus a choice of integral sample collection vessels (2 x 4.5L 4 x 4.5L, 4x 5L 4 x 12L, 24 x 1L).

The sample collection vessel is contained within a temperature-controlled housing. In this way the user is provided with a representative sample of the wastewater discharge, preserved at a temperature between 0°C and 5°C (this is the optimum storage temperature for biodegradable

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samples to ensure minimum sample degradation). The sampler weighs approximately 120 kg (excluding collection vessel) and can be operated from either mains power, or a combination of mains with standby battery (supplied by Aquamatic). The manufacturer states that the equipment is IP54 rated* and is designed for mainly outdoor applications

All models have data logging facilities (with optional RS232 interface), to record when samples are extracted and to register fault conditions occurring during the sampling routine. There is also an option to record the temperature of the composite sample (P2-COOLBOX only).

Aquacell S320H+S50 wastewater sampler combination

The S320H+S50 wastewater sampling combination comprises a metal cabinet (Choice of galvanised steel powder coated white, stainless steel or stainless steel powder coated white) with separately lockable upper sampler compartment (containing an S50 sampling module housed adjacent to an S320H sampling module), and lower sample collection vessel compartment. It extracts two individual samples from wastewater channel(s) or vessel(s), according to pre-determined programs individually set on each sampling module, and deposits into various options of removable sample collection vessels (2.5L, 5L, 10L, 12L, 25L).

The sample collection vessel is contained within a temperature-controlled housing. In this way the user is provided with a representative sample of the wastewater discharge, preserved at a temperature between 0°C and 5°C (this is the optimum storage temperature for biodegradable samples to ensure minimum sample degradation). The sampler weighs approximately 128 kg (excluding collection vessel) and can be operated from either mains power, or a combination of mains with standby battery (supplied by Aquamatic). The manufacturer states that the equipment is IP54 rated* and is designed for mainly outdoor applications.

All models have data logging facilities (with optional RS232 interface), to record when samples are extracted and to register fault conditions occurring during the sampling routine. There is also an option to record the temperature of the composite sample. Data logging and sample temperature recording are available independently on each sampling module.

Aquacell S510 wastewater sampler

The S510 wastewater sampler comprises a stainless steel cabinet divided into separately lockable upper sampler compartment, and lower sample collection vessel compartment. It extracts individual samples from a wastewater channel or vessel, according to a predetermined programme and deposits into various options of detachable sample collection vessels (10L, 25L, 2 x 4.5L, 4 x 4.5L, 4x 5L, 12 x 0.7L, 12 x 1L, 24 x 0.9L). Plus a choice of integral sample collection vessels (4 x 12L, 24 x 1L).

The sample collection vessel is contained within an insulated housing. In this way the user is provided with a representative sample of the wastewater discharge. The sampler weighs approximately 170 kg (excluding collection vessel) and can be operated from either mains power, or a combination of mains with standby battery (supplied by Aquamatic). The manufacturer states that the equipment is IP55 rated and is designed for mainly indoor applications

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Aquacell S510H wastewater sampler

The S510H wastewater sampler comprises a stainless steel cabinet divided into separately lockable upper sampler compartment, and lower sample collection vessel compartment. It extracts individual samples from a wastewater channel or vessel, according to a predetermined programme and deposits into various options of detachable sample collection vessels (10L, 25L, 2 x 4.5L, 4 x 4.5L, 4x 5L, 12 x 0.7L, 12 x 1L, 24 x 0.9L). Plus a choice of integral sample collection vessels (4 x 12L, 24 x 1L).

The sample collection vessel is contained within an insulated housing. In this way the user is provided with a representative sample of the wastewater discharge. The sampler weighs approximately 170 kg (excluding collection vessel) and can be operated from either mains power, or a combination of mains with standby battery (supplied by Aquamatic). The manufacturer states that the equipment is IP55 rated and is designed for mainly outdoor applications.

Aquacell S520 wastewater sampler

The S520 wastewater sampler comprises a stainless steel cabinet divided into separately lockable upper sampler compartment, and lower sample collection vessel compartment. It extracts individual samples from a wastewater channel or vessel, according to a predetermined programme and deposits into various options of detachable sample collection vessels (10L, 25L, 2 x 4.5L, 4 x 4.5L, 4x 5L, 12 x 0.7L, 12 x 1L, 24 x 0.9L). Plus a choice of integral sample collection vessels (4 x 12L, 24 x 1L).

The sample collection vessel is contained within a temperature-controlled housing. In this way the user is provided with a representative sample of the wastewater discharge, preserved at a temperature between 0°C and 5°C (this is the optimum storage temperature for biodegradable samples to ensure minimum sample degradation). The sampler weighs approximately 190 kg (excluding collection vessel) and can be operated from either mains power, or a combination of mains with standby battery (supplied by Aquamatic). The manufacturer states that the equipment is IP55 rated and is designed for mainly indoor applications

Aquacell S520H wastewater sampler

The S520H wastewater sampler comprises a stainless steel cabinet divided into separately lockable upper sampler compartment, and lower sample collection vessel compartment. It extracts individual samples from a wastewater channel or vessel, according to a predetermined programme and deposits into various options of detachable sample collection vessels (10L, 25L, 2 x 4.5L, 4 x 4.5L, 4x 5L, 12 x 0.7L, 12 x 1L, 24 x 0.9L). Plus a choice of integral sample collection vessels (4 x 12L, 24 x 1L).

The sample collection vessel is contained within a temperature-controlled housing. In this way the user is provided with a representative sample of the wastewater discharge, preserved at a temperature between 0°C and 5°C (this is the optimum storage temperature for biodegradable samples to ensure minimum sample degradation). The sampler weighs approximately 190 kg (excluding collection vessel) and can be operated from either mains power, or a combination of mains with standby battery (supplied by Aquamatic). The manufacturer states that the equipment is IP55 rated and is designed for mainly outdoor applications

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General Notes

1. This certificate is based upon the equipment tested. The Manufacturer is responsible for ensuring that on-going production complies with the standard(s) and performance criteria defined in this Certificate. The Manufacturer is required to maintain an approved quality management system controlling the manufacture of the certified product. Both the product and the quality management system shall be subject to regular surveillance according to 'Regulations Applicable to the Holders of Sira Certificates'. The design of the product certified is defined in the Sira Design Schedule V14 for certificate No. Sira MC 050059/19.
2. If certified product is found not to comply, Sira Certification Service should be notified immediately at the address shown on this certificate.
3. The Certification Marks that can be applied to the product or used in publicity material are defined in 'Regulations Applicable to the Holders of Sira Certificates'.
4. This document remains the property of Sira and shall be returned when requested by the company.

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