



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
Aquacell S510, S510H, S520 & S520H***

manufactured by:

Aquamatic Ltd
*Mayfield Industrial Park
Liverpool Road, Irlam
Manchester
M44 6GD, UK*

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

**MCERTS Performance Standards for Continuous Water
Monitoring Systems, Part 1, Version 1 (Feb 2003)**

Certification Range :

Lift height 0 to 7 metres

Project No: 674/0152 & 674/0223 & 674/0342
Certificate No: Sira MC050059/05
Initial Certification: 29 June 2005
This Certificate Issued: 05 September 2008
Renewal Date: 28 June 2010

Technical Director

MCERTS is operated on behalf of the Environment Agency by

Sira Certification Service
12 Acorn Industrial Park, Crayford Road, Crayford
Dartford, Kent, UK, DA1 4AL
Tel: 01322 520500 Fax: 01322 520501

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Approved Site Application

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 +50 °C. 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 4 °C

The S320H 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 4 °C

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.

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This Certificate Issued: 05 September 2008

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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

Any potential user should ensure, in consultation with the manufacturer, that the water monitoring system is suitable for the process on which it will be installed.

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

Product Certified

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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This Certificate Issued: 05 September 2008

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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	Flow proportional and time sampling available. Certified for use with a single 5 litre composite container	Clause 4.1.1															
Sample Volume	Sample volume adjustable	Clause 4.1.2															
<ul style="list-style-type: none"> Max discrete sample Storage capacity 	500ml 5 litre composite container																
Sampling head		Clause 4.1.3															
<ul style="list-style-type: none"> Max sampling head 	7 metres																
Sample interval	Sample Interval range 1min to 99hrs 99mins	Clause 4.1.4															
<ul style="list-style-type: none"> Time proportional sampling Flow proportional sampling 	1min interval is selectable 4-20mA and pulse inputs accepted Number of pulses per sample adjustable																
Sample failure	Sample failures recorded. Fault indicated on display	Clause 4.1.5															
Sample line diameter	Intake line: 12mm Sampler system: Starting at 12mm and increasing to 16mm	Clause 4.1.6 >9 mm															
Sample volume error	<table border="0"> <tr> <td>Systematic Errors:</td> <td>Random Errors:</td> <td></td> </tr> <tr> <td>1.34% at 1m</td> <td>1.1% at 1m</td> <td><5%</td> </tr> <tr> <td>-1.65% at 3.5m</td> <td>4.6% at 3.5m</td> <td><5%</td> </tr> <tr> <td>-2.33% at 7m</td> <td>1.2% at 7m</td> <td><5%</td> </tr> <tr> <td>Overall: -0.88%</td> <td>Overall: 4.2%</td> <td><5%</td> </tr> </table>	Systematic Errors:	Random Errors:		1.34% at 1m	1.1% at 1m	<5%	-1.65% at 3.5m	4.6% at 3.5m	<5%	-2.33% at 7m	1.2% at 7m	<5%	Overall: -0.88%	Overall: 4.2%	<5%	Clause 4.2.1
Systematic Errors:	Random Errors:																
1.34% at 1m	1.1% at 1m	<5%															
-1.65% at 3.5m	4.6% at 3.5m	<5%															
-2.33% at 7m	1.2% at 7m	<5%															
Overall: -0.88%	Overall: 4.2%	<5%															

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Test	Results	MCERTS specification								
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 4.2.2 >0.5 m/s >0.5 m/s >0.5 m/s >0.5 m/s >0.5 m/s >0.5 m/s >0.5 m/s								
Sample integrity	No statistically significant difference found in the analysis for suspended solids, total N, total P, BOD and COD	Clause 4.2.3								
Sample timing	1 sec	Clause 4.2.4 < ±10 sec/24h								
Ambient temperature (P2 Coolbox) <ul style="list-style-type: none"> Sampler with sample temperature control (maintain sample between 0°C to 5°C) 	<table border="0"> <tr> <td>During sample period:</td> <td>24hrs after sample period:</td> </tr> <tr> <td>3.22°C at -10°C</td> <td>0.63°C at -10°C</td> </tr> <tr> <td>3.74°C at 15°C</td> <td>0.82°C at 15°C</td> </tr> <tr> <td>4.12°C at 40°C</td> <td>1.77°C at 40°C</td> </tr> </table> <p>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.</p>	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	Clause 4.3.1b
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									

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 This Certificate Issued: 05 September 2008

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Test	Results	MCERTS specification								
Ambient temperature, S2-R <ul style="list-style-type: none"> Sampler with sample temperature control (maintain sample between 0°C to 5°C) 	<table border="0"> <tr> <td>During sample period:</td> <td>24hrs after sample period:</td> </tr> <tr> <td>4.95°C at -10°C</td> <td>2.65°C at -10°C</td> </tr> <tr> <td>4.65°C at 15°C</td> <td>2.15°C at 15°C</td> </tr> <tr> <td>4.75°C at 40°C</td> <td>1.85°C at 40°C</td> </tr> </table> <p>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 bucket removed. The removal of the lid, whilst improving the cooling efficiency, does increase the risk of splashing and spillage of the contents</p>	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	Clause 4.3.1b
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									
Ambient temperature (S500 range) <ul style="list-style-type: none"> Sampler with sample temperature control (maintain sample between 0°C to 5°C) 	<table border="0"> <tr> <td>During sample period:</td> <td>24hrs after sample period:</td> </tr> <tr> <td>4.75°C at -10°C</td> <td>2.85°C at -10°C</td> </tr> <tr> <td>4.55°C at 20°C</td> <td>2.53°C at 20°C</td> </tr> <tr> <td>4.67°C at 40°C</td> <td>2.98°C at 40°C</td> </tr> </table>	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 4.3.1b
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									
Ambient temperature S300 range <ul style="list-style-type: none"> Samplers with sample temperature control (maintain sample between 0°C to 5°C) 	<table border="0"> <tr> <td>During sample period:</td> <td>24hrs after sample period:</td> </tr> <tr> <td>4.67°C at -10°C</td> <td>2.77°C at -10°C</td> </tr> <tr> <td>4.19°C at 20°C</td> <td>2.17°C at 20°C</td> </tr> <tr> <td>4.52°C at 40°C</td> <td>2.83°C at 40°C</td> </tr> </table>	During sample period:	24hrs after sample period:	4.67°C at -10°C	2.77°C at -10°C	4.19°C at 20°C	2.17°C at 20°C	4.52°C at 40°C	2.83°C at 40°C	Clause 4.3.1b
During sample period:	24hrs after sample period:									
4.67°C at -10°C	2.77°C at -10°C									
4.19°C at 20°C	2.17°C at 20°C									
4.52°C at 40°C	2.83°C at 40°C									

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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 or mains power, or a combination of mains with standby battery. 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 or mains power, or a combination of mains with standby battery. 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.

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 or mains power, or a combination of mains with standby battery. 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 5@, 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. The manufacturer states that the equipment is IP65 rated and is equally suited to indoor or outdoor use.

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This Certificate Issued: 05 September 2008

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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. 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 a combination of mains with standby battery. 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. The manufacturer states that the equipment is IP54 rated* and is designed for mainly outdoor applications (*Incorporates Aquacell Sampler Module rated at IP65).

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This Certificate Issued: 05 September 2008

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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. 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 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. 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 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. The manufacturer states that the equipment is IP55 rated and is designed for mainly indoor applications

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This Certificate Issued: 05 September 2008

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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. 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. 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. 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 for certificate No. Sira MC 050059/04.
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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