



The Aquacell Module The Heart Of Every Aquamatic Wastewater Sampler



The Aquacell Sampling Module is common to all models in the MCERTS certified Aquacell Wastewater Sampler range. The Aquacell Module employs a wide bore air pump vacuum sampling system to automatically collect representative and repeatable effluent samples at very precise volumes. Straightforward to program, operate and maintain, Aquamatic's Aquacell Samplers used extensively both in the UK throughout the world

The air pump vacuum sampling system featured within every Aquacell Module provides for a reliable, representative and repeatable sample without the weaknesses that can be associated with alternative sampling techniques. Programming set-up is simplicity itself, with sample volumes from 50 - 500ml (and above) and sample intervals from 1 minute to almost 100 hours

Sample extraction can be time based or triggered by external sources such as flow meters, level sensors, pH meters, PLC's etc. All Aquacell Sampler models are certified to the UK Environment Agency's MCERTS standard for Automatic Wastewater Sampling Equipment, European Standard for Automatic Sampling Devices (EN16479:2014) and also the International Standard for Wastewater Samplers ISO 5667-10

By using this Module across the complete Aquacell Sampler range, programming, operation, maintenance and spare parts remain consistent, regardless of how many units are in use or whether they are Portable, Wall-Mounted or Stationary systems. All Aquacell Samplers can extract samples from a pressurised effluent source, using Aquamatic's Pressurised Pipeline Interface. Please see individual data sheets or our website for more information on all Aquamatic products

Features of the Aquacell Module

- All models certified to MCERTS standard for Continuous Water Monitoring Equipment
- Incorporates Air Pump Vacuum sampling principle
- Excellent sample repeatability and high accuracy of sample shot volume
- Robust construction materials throughout
- Simple to program, clean and maintain
- Easy sample shot volume adjustment
- Virtually unlimited sample volume using multiple shot per sample facility
- 350+ sample shots from internal battery on a full charge (subject to conditions)
- Ø12mm intake hose increasing to Ø16mm at discharge to minimise blocking risk
- Optional connectivity to external equipment such as flow meters, level sensors, pH meters etc via the Ancillary Signal Connection
- Compliant with the requirements of the International Standard for Wastewater Samplers ISO 5667-1
- Certified to European Standard for Automatic Sampling Devices (EN16479:2014)



Wall Mounted
Aquacell S50



Portable Aquacell
P2-COMPACT



Wall Mounted Aquacell S100
with optional Suspension
Bracket and 10ltr Container



Stationary, Refrigerated
Aquacell S320H

Product Specifications

GENERAL	
Media source suitability	Wastewater from non-pressurised sampling point or pressurised via optional Pressurised Pipeline Interface
Sample extraction method	Air pump vacuum system
Environmental suitability	Not suitable for use in areas classified as hazardous zones
Sampling method	Time - Sampling frequency 1 min - 99hrs 59min Flow - 4-20mA or pulsed volt-free contact Event - volt-free contact from external device
Maximum lift height	>7m
Transport velocity	Upto 0.5 m/s (average) over 7m lift
Sample shot volume	50 - 500ml (larger total is possible with multiple shots/sample)
Sample shots per battery charge	350+ from fully charged Aquamatic battery (subject to conditions)
Sample shot cycle time	30s approximately with 4m lift
Max sample media temperature	60°C
Ambient operating temp	See individual Product Data Sheets for details

MATERIALS	
Aquacell Module	Sealed polyurethane mouldings and stainless steel components
Sample Chamber	Acrylic or glass (option)
Sample Chamber top	Standard: polypropylene/stainless steel/silicone rubber Optional: PTFE/stainless steel/silicone rubber
Intake Hose with Filter	Standard: Braided PVC/stainless steel Filter Other options available on request
Sample Collection Vessels	See Sample Collection Vessel Data Sheet for details

MECHANICAL	
User Interface	17 Button Keypad incorporating tactile keys 16 x 2 line backlit LCD
Intake Hose:	
Portable models	2m long with 5 x Ø12mm intake ports (2m extension hoses available as required)
Stationary models	10m (5m with S50) with 5 x Ø12mm intake ports
Sample tract diameter	Ø12mm increasing to Ø16mm (Ø19mm with Bottler) between Intake Filter and sample discharge
Environmental Protection	Electrical / electronic components housed in humidity controlled enclosures (See individual Product Data Sheets for details)
Humidity control	Replaceable Desiccant Bag with graduated Humidity Indicator visible on Keypad

STANDARDS COMPLIANCE	
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All Aquacell models certified with UK Environment Agency's MCERTS for Continuous Water Monitoring Equipment EN16479:2014
Certified to European Standard for Automatic Sampling Devices (EN16479:2014)

Water quality - Sampling - Part 10: Guidance on sampling of waste waters ISO 5667 - 10

CE Marked and complies with EU Directives:
(See User Guides for details of Compliance)

BS EN 61000-6-3:2007 Electromagnetic compatibility (EMC).
Generic standards
BS EN 61326-1:2013 Electrical equipment for measurement, control and laboratory use
BS EN 61010-1:2010 Low Voltage Directive (LVD)
Restriction of Hazardous Substances Directive (RoHS) 2011/65/EU



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