

Product Data Sheet

See other Product Data Sheets for details of Stationary Aquacell models



Wastewater Samplers for the World

AQUACELL PORTABLE WASTEWATER SAMPLERS

The Aquacell Portable Wastewater Sampler range is made up of three models ranging from the super small P2-COMPACT composite unit to the highly versatile, multi bottler, P2-MULTIFORM. All Aquamatic Wastewater Samplers are compliant with the UK Environment Agency's MCERTS Standard for Continuous Water Monitoring Equipment. As with every Sampler in the Aquacell Sampler range each of the Portable models incorporate the well proven and dependable Aquacell Module.



When super-compactness combined with uncompromised sampling performance is required, the **Aquacell P2-COMPACT** is the perfect solution. Ideal where Samplers are transported between different sites.

Incorporated within the **Aquacell P2-COOLBOX** is a high performance Sample Temperature Control facility. This ensures that the collected samples are preserved at an optimal temperature (0°C to 5°C up to 5 days) whilst awaiting collection / inspection. This is particularly useful when sampling biologically active wastewater.



Thick wall insulation combined with sealed 'no mess' Cooling Elements provides an impressive Sample Temperature Control performance. As the Sample Temperature Control facility does not require any electrical power, the P2-COOLBOX's power source (normally an Integral Battery) is required for the Sampling Module only and therefore maximises the Sampling period.



The **Aquacell P2-MULTIFORM** can accommodate a choice of four Sample Collection Vessels. Changing Sample Collection Vessels is extremely quick and easy with the Aquacell Modules lift off design.

The open aluminium frame structure of the Aquacell P2-MULTIFORM provides clear visual contact with the collected samples. Users quickly appreciate the benefit of being able to see each sample depositing correctly into its container without having to dismantle the Sampler.

PRODUCT DESCRIPTION

See Aquacell Price List for full details of Products and Options

PRODUCT DESCRIPTION	P2-COMPACT	P2-COOLBOX	P2-MULTIFORM
GENERAL			
MCERTS compliant	Yes	Yes	Yes
Sample Temperature Control	No	Yes Passive	No
Sample Frost Protection	No	Yes	No
ENVIRONMENTAL			
IP rating	65	65	65
Minimum ambient working temperature (°C)	-10	-10	-10
Maximum ambient working temperature (°C)	50	50	50
POWER OPTIONS			
Integral battery 12VDC 7Ah	Opt	Opt	Opt
Mains 110 / 220 / 230VAC 50Hz	Opt	Opt	Opt
Float charged backup battery (12VDC 7Ah)	Opt	Opt	Opt
Separate 12VDC	Opt	Opt	Opt
SAMPLE COLLECTION VESSELS			
5 litre Container	Yes	Yes	No
25 litre Container	No	No	Opt
12 x 1 litre PET Bottler	No	No	Opt
12 x 1 litre Glass Bottler	No	No	Opt
24 x 1 litre HDPE Bottler	No	No	Opt
DIMENSIONS / WEIGHTS			
Size (mm)	H430 W320 D375	H805 W430 D430	H780 W445 D445
Weight excl. Container / Options (Kg)	7.3	17.5	8.5
POWER CONSUMPTION			
Current (A) @ 12VDC	5	5	5
Power (VA) @ 110VAC	60	60	60
Power (VA) @ 220VAC	60	60	60
Power (VA) @ 230VAC	60	60	60
OPTIONAL EQUIPMENT - ELECTRICAL			
Ancillary Signal Connection (for connection to Flow metres, pH meters, PLCs etc.)	Opt	Opt	Opt
Bottler Connection	N/A	N/A	Opt
Data Download	Opt	Opt	Opt
Sample Temperature Monitoring	Opt	Opt	Opt
OPTIONAL EQUIPMENT - MECHANICAL			
Transportation Truck	Opt	Opt	Opt



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Company Information & Aquacell Module Data Sheet

See separate Product Data Sheets for individual Aquacell Model details



Wastewater Samplers for the World

AQUAMATIC LIMITED

Established in 1991, Aquamatic Limited is a leading manufacturer of MCERTS compliant automatic Wastewater Sampling Equipment, based in Manchester, United Kingdom. The company and its product range benefit from over 80 years experience in the wastewater sampling industry.



From the outset Aquamatic has focused on the design and manufacture of uncomplicated, reliable and robust wastewater sampling equipment. Today Aquamatic offers the highly acclaimed Aquacell Wastewater Sampler range. Consisting of 10 models, 3 of which are Portable and 7 Stationary, the Aquacell range represents a true leading edge family of products suitable for all the modern day rigours of wastewater sampling applications. Refer to the separate Aquacell Product Data Sheets for specific details of each of the Aquacell Sampler Models.

Available both direct from Aquamatic in England and around the world via a network of excellent local distributors, Aquamatic equipment is accessible globally to any company with a requirement for high quality, dependable wastewater sampling equipment. Aquamatic Wastewater Sampling Equipment is used by a wide range of International companies and Organisations, including many well known names such as ABB, BNFL, Cadburys Schweppes, Heinz, Rolls Royce and Veolia. Additionally Aquamatic Wastewater Samplers are currently being used at many of the major Water Companies, both UK and Worldwide.

THE AQUACELL SAMPLING MODULE

Central to every Aquamatic Wastewater Sampler is the Aquacell Sampling Module. Whether your application requires Portable or Stationary Wastewater Sampling equipment, the same programming interface, sampling technique, functionality and performance are all guaranteed by the tried and tested Aquacell Sampling Module.



FEATURES OF THE AQUACELL SAMPLING MODULE:

- All models compliant with MCERTS standard for Continuous Water Monitoring Equipment
- Air Pump Vacuum sampling principle
- Robust materials utilised throughout design
- Simple to program
- Simple to clean & maintain day to day
- Sample shot volume adjustment extremely easy
- Excellent sample repeatability and high accuracy of sample shot volume
- Virtually unlimited sample volume due to programmable 'multiple shots / sample' facility
- 350+ Sample shots from fully charged 'Integral battery'
- Ø12mm Intake ports increasing to Ø16mm (min) sample discharge tube, thus minimising blockage potential
- Via the Ancillary Signal Connection all models can be connected to, and controlled by, external equipment such as Flow Meters, Level Sensors, pH Meters, PLCs, etc.
- Compliant with the requirements of the International Standard for Wastewater Samplers ISO 5667-10

Aquacell Sampling Module Specification

General

Media source suitability	Wastewater from non-pressurised sampling point
Sample extraction method	Air pump vacuum system
Environmental suitability	Not suitable for use in potentially explosive atmospheres
Sampling method	Time – Sampling frequency: 1 min to 99hrs 59 min Flow – 4-20mA or pulsed volt free contact Event – Volt free contact from external device e.g. pH meter, pump etc.
Maximum lift height	> 7 metres
Transport velocity	0.5 metres / sec (average) over 7 metres lift
Sample shot volume	50 - 500 ml. (larger total sample volume possible through programmable multiple shots / sample)
Sample shots / charge	350+ from fully charged Aquamatic Battery (at 1.8m lift)
Sample shot cycle time	30 seconds (approximately) with 4 metres lift
Maximum sample media temperature	60°C
Ambient operating temp.	See Individual Product Data Sheets for details

Materials of construction

Aquacell Module	Sealed Polyurethane mouldings / Stainless Steel Components
Sample Chamber	Acrylic or Glass (option)
Sample Chamber Top	Standard: Polypropylene / Stainless Steel / Silicon rubber Optional: PTFE / Stainless Steel / Silicon rubber
Intake Hose with Filter	Standard: Braided PVC / Stainless Steel Filter Optional: Braided PTFE / Stainless Steel Filter
Sample Collection Vessels	See individual Product Data Sheets for details

Mechanical

User Interface	17 button Keypad incorporating tactile keys 16 x 2 line backlit LCD
Intake Hose:	
<i>Portable models</i>	2 metre long with 5 x Ø12mm intake ports (2 metre extension hoses available as required)
<i>Stationary models</i>	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
Sample Collection Vessels	See individual Product Data Sheets for details
Environmental Protection	Electrical / electronic components housed in humidity controlled enclosures. See individual Product Data Sheets for specific IP ratings
Humidity Control	Replaceable Desiccant Bag with 3 stage Humidity Indicator visible on Keypad

Standards Compliance

All Aquacell models compliant with UK Environment Agencies MCERTS for Continuous Water Monitoring Equipment
Water quality - Sampling - Part 10: Guidance on sampling of waste waters ISO 5667 – 10
CE Marked and complies with: EMC Directive 89/336/EEC Low Voltage Directive 2006/95/EC (formerly 73/23/EEC)
UK Environment Agency E32 specification for Automatic Sampling equipment (Aquacell P2-COOLBOX only)

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