


## Automation/ Aqualyser



### **Aqualyser for Simultaneous pH, Conductivity and Alkalinity Measurement**

#### **The Aqualyser Range**

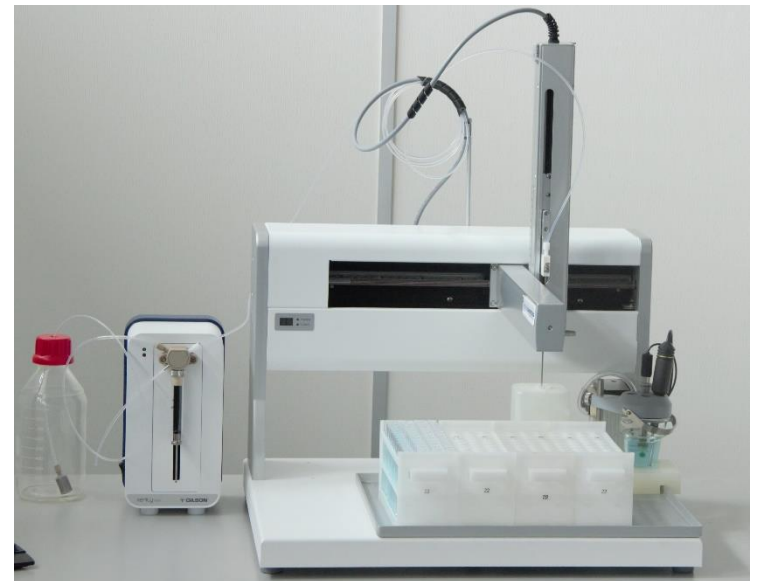
The Aqualyser family of automated multi-parameter analysis systems comes with a common user interface designed to meet the varied needs of environmental and analytical laboratories. The aqualyser is the perfect answer to common problems facing today's analytical laboratories:

- ✓ **Decrease cost of analysis**
- ✓ **Increase profit required per head**
- ✓ **Reduce sample handling**
- ✓ **Direct reporting to LIMS**
- ✓ **Efficient turnaround times**

The Return On Investment for the Aqualyser is typically 6 to 12 months.

Developed to improve efficiencies and throughput within water laboratories in the UK and Ireland, the Aqualyser is an automated pH, Conductivity, and Alkalinity, analyser specifically for potable, natural, waste, river and leachate water.

The aqualyser can be configured to carry out any permutation of the 3 determinants depending on user requirements



- ✓ **Flow through or static cells for fast measurement**
- ✓ **Fully automated analysis of up to 280 samples with 15ml volume**
- ✓ **The system automatically and accurately pipettes the sample. No need for manual time-consuming decanting of the sample**
- ✓ **Dynamic end point detection**
- ✓ **SMART rinsing which increases rinses time after a sample with a high concentration**
- ✓ **Automatic addition of water for soil leachate.**

## TECHNICAL SPECIFICATIONS

<b>Type of measurement</b>	Static in cell pH and alkalinity measurement. Choice of flow through or static EC measurement. Sample stirring with temperature compensation.
<b>Capacity</b>	350 x 15ml disposable tubes for model AQ215 280 x 15ml disposable tubes for model AQ271
<b>Measurement time</b>	< 2 to 6 minutes depending on level of alkalinity
<b>Typical sample types</b>	Natural, waste, boiler and potable waters
<b>pH specifications</b>	Range 1 to 14 pH, TSD<0.05 ph units, Bias<0.02pH Units
<b>Alkalinity specifications</b>	Up to 15,000 mg/Kg using 12ml sample and 0.01N HCl titrant. Higher levels can be determined using higher concentrations of HCl. Can measure p & m alkalinity separately or simultaneously.
<b>EC specifications</b>	Range 0 - 50,000µS, TSD<5µS, LOD<10µS
<b>Sample volume</b>	< 15ml
<b>Footprint</b>	AQ215 - 91.4 (w) x 61 (d) x 55.8 (h) cm AQ271 - 59.7 (w) x 54.1 (d) x 57.1 (h) cm
<b>PC Software</b>	TitreFast Lite Common Windows 7 64 bit interface or higher Easy LIMS import of sample schedules and export via LIMS for reporting MS Excel Reporting
<b>PC specification</b>	Pentium 4 with 1GHz or better, >1 GB RAM, 200GB hard disc one free RS232 port Windows 7 Prof 64 bit, 1024x768 or high resolution monitor Requires Microsoft Excel or Office installed. Please send the PC to a1-envirosciences prior to installation
<b>Calibration</b>	Multi-point calibration with slope pass/fail window.
<b>Alkalinity end point detection</b>	Offers fast titration with dynamic focussed end point detection for unmatched accuracy for unmatched accuracy.
<b>Rinsing between samples</b>	Eliminate carry over from high to low concentration samples using SMART rinsing technology which automatically increases the rinse volume after processing high alkalinity samples.
<b>Optional tube racks</b>	With over 200 standard sample racks available - virtually any tube size can be accommodated. Custom made racks are also available



**Wolflabs**

# Wolf Laboratories Limited

[www.wolflabs.co.uk](http://www.wolflabs.co.uk)

Tel: 01759 301142

Fax: 01759 301143

[sales@wolflabs.co.uk](mailto:sales@wolflabs.co.uk)



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**Pricing on any accessories shown can be found by keying the part number into the search box on our website.**

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

