

Cooling & Boiler Water Testing



Optimise treatments and monitor
critical control parameters.
Water Testing Made Easy.

Kittiwake
Measuring, Monitoring & Managing



DIGI Standard Laboratory

The DIGI Standard Lab contains all hardware required to carry out titration, photometric, pH and conductivity testing. A core range of tests are included which provide all the essentials for monitoring essential cooling and boiler water treatment parameters. Upgrading the kit is simple thereafter.



Ordering Information

FG-K28900-KW: DIGI Standard Laboratory

Black polymer case with aluminium frame and side work station containing:

- 1 x DIGI Smart II Photometer and mains charger
- 1 x DIGI Titrator
- 1 x DIGI EcoScan pH 6 meter
- 1 x pH probe for DIGI EcoScan 6 meter
- 1 x DIGI EcoScan CON 6 meter and cell
- 1 x Digital Thermometer
- 4 x 10ml glass photometer cells
- 6 x Titrator syringette assemblies
- 4 x dispensing needles
- Wash bottle, filtration (GF/C/0.45u)
- Alkalinity (P,M,OH) DIGI titrator test
- Chloride DIGI titrator test
- Hardness (Total + Calcium) DIGI titrator test
- Chlorine (Free) DIGI Photometer Test
- Chlorine (Total) DIGI Photometer Test
- Iron LR DIGI Photometer Test
- Phosphate HR DIGI Photometer Test
- Selection of syringes, glassware, stirrers and test equipment
- 1 x instruction booklet
- Additional space for 4 x syringette assemblies, 7 spare cartridges, 25 x 65ml reagents (or 25 sachet packs), 7 x 30ml reagents, 9 x pots and 2 x pH test strips

Test Kit Upgrades

Upgrade your portable laboratory with tests from the list below. The DIGI Standard Lab has sufficient space for 25 additional reagents that can be added to your test kit as required.

Custom built test kits are also available if your requirements are not covered by our standard products. Contact sales@kittiwake.com to organise a quotation.

Product Table

Code	Product	Range	Tests per pack	Number of Reagents
Standard DIGI Tests: Titration				
AS-K26064-KW	Alkalinity P,M,OH	10-2000 mg/l CaCO ₃	Min 50	3 x 65ml, 1 x Cartridge
AS-K26065-KW	Chloride	50-2000 mg/l Cl ⁻	Min 50	1 x Cartridge
AS-K26066-KW	Hardness (Total + Calcium)	10-2000 mg/l CaCO ₃	Min 50	1 x Cartridge
Standard DIGI Tests: Photometric				
AS-K24991-KW	Chlorine (Free)	0-2.5 mg/l Cl ₂	100	1 pk sachets
AS-K24992-KW	Chlorine (Total)	0-2.5 mg/l Cl ₂	100	1 pk sachets
AS-K22198-KW	Iron LR	0-2.0 mg/l Fe	150	1 x 65ml
AS-K22239-KW	Phosphate HR	5-80 mg/l PO ₄	65	2 x 65ml
DIGI Tests Upgrades: Titration				
AS-K28302-KW	Acidity	0.1-50 Acidity Value	Min 50	1 x 65ml, 1 x Cartridge
AS-K26069-KW	Nitrite	20-2000 mg/l NaNO ₂	Min 50	2 x 65ml, 1 x Cartridge
AS-K26070-KW	Phosphonate	2-50 mg/l HEDP	Min 50	1 x 30ml, 1 x Cartridge
AS-K26071-KW	Sulphite	0-100 mg/l Na ₂ SO ₃	Min 50	1 x pot, 1 x cartridge
AS-K26072-KW	Zinc	0.1-10 mg/l Zn	Min 50	1 x pot, 1 x 65ml 1 x Cartridge
DIGI Tests Upgrades: Photometric				
AS-K22124-KW	Aluminium	0-0.5 mg/l Al	50	2 x pots
AS-K22141-KW	Bromine (Free & total)	0.2-10.0 mg/l Br ₂	50	2 x Pots
AS-K28308-KW	Copper - Cu1	0-5.0 mg/l Cu	100	1 x Sachets
AS-K24982-KW	Iron HR	0-5.0 mg/l Fe	100	1 x Sachets
AS-K22209-KW	Molybdate LR	0-20 mg/l MoO ₄	50	1 x 65ml, 2 x pots
AS-K28309-KW	Molybdate HR	0-40 mg/l Mo	150	3 x Sachets
AS-K25002-KW	Phosphate LR	0-2.5 mg/l PO ₄	100	1 x Sachets
AS-K28311-KW	Silica HR	0-40 mg/l SiO ₂	100	3 x Sachets

Note: Additional Photometer and Titrator upgrades are available for this test kit. See the DIGI Water Test Kits datasheet for details. Some related products are also detailed on the following pages.

Test Kits for Cooling Water Testing

Cooling Water Test Kits

A range of multi-parameter ECON test kits for the monitoring and control of inhibitors dosed into cooling water to control scale, corrosion and microbiological activity.

Closed System Inhibitor Test Kit

A small kit for the measurement of nitrite based corrosion inhibitors, added to closed cooling water systems. pH Test Strips are also included for pH control.



FG-K25084-KW*

* Pictured with optional ECON pH Meter

- Large range of test equipment available - tailor your tests to your own configuration.
- Simple, quick and accurate use - test results fast.
- High quality equipment and reagents - manufactured under ISO 9001: 2000 quality guidelines.
- Multiple kits can be combined in a robust plastic case, making portable, on-site testing even more convenient.
- Instruction sheets printed on waterproof paper, to withstand spills or splashes.

Ordering Information

FG-K28600-KW: Closed System Inhibitor Test Kit

Small black plastic case containing:
1 x Nitrite Test (10 - 2000 ppm)
1 x pH Test Strips pH 4.5 - 10
1 x Waterproof Instructions

FG-K25083-KW: Cooling Water No. 1 Test Kit

Medium black plastic case containing:
1 x M Alkalinity Test
1 x Chloride Test
1 x Calcium Hardness Test
1 x Pocket pH Test Meter
1 x Waterproof Instructions
Additional space for up to 2 x 30ml reagents, 1 x reagent pot and 1 x ECON Test Meter

FG-K25084-KW: Cooling Water No. 2 Test Kit

Aluminium case containing:
1 x M Alkalinity Test
1 x Chloride LR Test
1 x Calcium Hardness Test
1 x Chlorine Comparator Test
1 x Phosphonate Test
1 x ECON 7021 Cond/TDS Pocket Test Meter
1 x pH Test Strips 4.5 - 10
1 x Waterproof Instructions
Additional space for up to 13 x 65ml reagents, 5 x 30 ml reagents, 3 x Test Strips and 1 x ECON Test Meter

Test Kit Upgrades

The Cooling Water No. 1 and No.2 Test Kits also have space for an additional ECON Test Meter, plus extra test reagents (see ordering information above for further details). Contact us to upgrade your test kits with our range of drop tests or pocket test meters.



Test Kits for Boiler Water Testing

Standard Test Kits

Two standard test kits for the analysis of boiler water treatments and water quality. Boiler Water No. 2 Test Kit is ideal for daily checks on critical inhibitor levels. Boiler Water No. 3 Test Kit gives a more complete analysis, ideal for service engineers.

BOILER WATER NO. 2 TEST KIT



Comparator Test Kits

A range of individual ECON Comparator Test Kits are available for measuring key boiler water inhibitors such as phosphate and DEHA.



Drop Test Kits

ECON Drop Test Kits for Hardness, Sulphite and Tannin are ideal for routine measurement of boiler corrosion inhibitors and softened water quality.

Ordering Information

FG-K25081-KW: ECON Boiler Water No. 2 Test Kit

Medium black plastic case containing:

- 1 x P + OH Alkalinity Test
 - 1 x Chloride Test
 - 1 x Sulphite/Tannin Test
 - 1 x Waterproof Instructions
- Additional space for 2 x ECON Test Meters and 1 x pH Test Strips

FG-K25082-KW: ECON Boiler Water No. 3 Test Kit

Aluminium case containing:

- 1 x P + OH Alkalinity Test
 - 1 x Chloride Test
 - 1 x Hardness LR Test
 - 1 x Phosphate (with filtration) Test
 - 1 x pH Papers
 - 1 x Sulphite/Tannin Test
 - 1 x TDS Tester (10+ pocket TDS meter)
 - 1 x Waterproof Instructions
- Additional space for 1 x ECON Test Meter, 5 x 65ml Reagents, plus 5 x 30 ml Reagents

FG-K28211-KW: DEHA Comparator Test Kit (0-500 ppm)

Small black plastic case containing:

- 1 x Comparator
- 1 x Comparator Disk for DEHA 0-500 ppm
- 2 x Comparator Cells
- 1 x Reagent Set
- 1 x Waterproof Instructions

FG-K28214-KW: Iron LR Comparator Test Kit (0-3.0 ppm)

Small black plastic case containing:

- 1 x Comparator
- 1 x Comparator Disk for Iron LR 0-3.0 ppm
- 2 x Comparator Cells
- 1 x Reagent Set
- 1 x Waterproof Instructions

FG-K28225-KW: Phosphate HR Comparator Test Kit (10-100 ppm)

Small black plastic case containing:

- 1 x Comparator
- 1 x Comparator Disk for Phosphate HR (10-100 ppm)
- 2 x Comparator Cells
- 1 x Reagent Set
- 1 x Waterproof Instructions

FG-K28703-KW: Hardness LR Drop Test Kit (1-60 ppm)

Small black plastic case containing:

- 1 x Reagent Set
- 1 x Titration Jar
- 1 x Syringe
- 1 x Waterproof Instructions

FG-K28700-KW: Sulphite Drop Test Kit (20-150 ppm)

Small black plastic case containing:

- 1 x Reagent Set
- 1 x Titration Jar
- 1 x Syringe
- 1 x Waterproof Instructions

FG-K28701-KW: Tannin Drop Test Kit (20-300 ppm)

Small black plastic case containing:

- 1 x Reagent Set
- 1 x Titration Jar
- 1 x Syringe
- 1 x Waterproof Instructions

Additional Cooling & Boiler Water Test Equipment

To be most effective, treatments must be maintained within specific control parameters, as excess inhibitor can have as detrimental an effect as too little.

The Kittiwake test kit range contains all equipment and reagents required to optimise treatments and monitor critical control parameters quickly, safely and accurately, ensuring optimum output and efficiency. Our support products have been carefully chosen to provide the water treatment consultant with simple, functional and accurate equipment to pass on to plant operators to carry out routine testing. Some examples of these are detailed below.



pH Testing

Kittiwake supply a range of pH test strips and test meters suitable for cooling & boiler water applications. See the Kittiwake Test Meters and ECON Kit datasheets for full details.

Code	Product	Range	Tests per pack
BI-K21307	pH Test strips	pH 0 -14	100
BI-K21309	pH Test Strips	pH 7 -14	100
FG-K27377-KW	ECON 7011 Pocket pH meter	-2 - 16 pH	1 Unit

Conductivity/TDS/°C Testing

Both Conductivity and TDS test meters are available for testing cooling & boiler water applications. See the Kittiwake Test Meters datasheet for full details.

Code	Product	Range
FG-K27378-KW	ECON 7021 Pocket Cond/TDS/ °C/Salinity Meter	EC 0-19.99 mS, TDS 0-9.99 ppt, °C 0-90, Salt 0-9.99 ppt



Glycol Refractometer

For the determination of monoethylene and monopropylene based antifreeze in closed cooling systems. See the Kittiwake Glycol Refractometer datasheet for full details.

Code	Product	Range
FG-K26509-KW	Glycol Refractometer	MPG: 0 - 62.4% (-50°C) MEG: 0 - 66% (-60°C)



Equivalent Reagents

Kittiwake stock a range of the most popular powder reagents for instruments such as the Hach™ DR890, DR2010, DR2400 and the HACH™ digital titrator. Some examples are below:

Code	Product	Instrument
AS-K23335-KW	DPD Free Powder Pillows (10ml) - pk100	DR890, DR2010, DR2400 + Pocket Colorimeter
AS-K23338-KW	DPD Total Powder Pillows (10ml) - pk100	DR890, DR2010, DR2400 + Pocket Colorimeter
AS-K23344-KW	Phos 3 Powder Pillows (10ml) - pk100	DR890, DR2010, DR2400 + Pocket Colorimeter
AS-K23341-KW	Ferro Powder Pillows (10ml) - pk100	DR890, DR2010, DR2400 + Pocket Colorimeter
AS-K26921-KW	1.6N Sulphuric Acid Cartridge - pk10	HACH™ Digital Titrator
AS-K26924-KW	0.8M EDTA Cartridge - pk10	HACH™ Digital Titrator



Field Incubator and Dipslides

The Kittiwake Field Incubator is designed for reliable incubation of bacteriological slides, on-site or in a laboratory. See the Kittiwake 'Field Incubator' datasheet for further details.

Code	Product	Range	Tests per pack
FG-K21364-KW	Field Incubator	Operating Temperature 30 - 45°C	1 Unit
BI-K21365	SRB Dipslides	Sulphate reducing bacteria	10
BI-K21366	Denitrifying Dipslides	Nitrite reducing bacteria	10
BI-K21367	BT2 Dipslides	Aerobic bacteria	10
BI-K21368	RBS Dipslides	Aerobic bacteria/yeast/mould	10
BI-K27104	SCT Dipslides	TVC Coliform	10
BI-K27105	TP Dipslides	TVC Total Pseudomonas	10

NEW - DIGI Test Laboratory Case Options

DIGI Case Options - For all applications

NEW DIGI Lab case are available, with foam options to suite our range of pH and conductivity meters. All are supplied with profiled foam inserts and include basic equipment such as sample bottles, storage containers (for foil sachets), filtration equipment, sampling syringes etc... All other equipment and reagents would be additional.



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Book Opening Case

FG-K27900-KW: Book Opening Case

Black polymer case with aluminium frame and drop down work surface. Space included for the following hardware options:
1 x DIGI Smart II Photometer or ECON Comparator
1 x DIGI Titrator
1 x DIGI EcoScan pH meter plus 1 x EcoScan conductivity meter
1 x ECON pH stick meter plus 1 x conductivity stick meter

DIGI Storm Case

FG-K28595-KW: DIGI Storm Case (PC 300 foam)

FG-K28596-KW: DIGI Storm Case (EcoScan foam)

FG-K28597-KW: DIGI Storm Case (Stick meter foam)

Rugged, compact black polymer case ideal suited to the mobile operator. Supplied with built in wheels and extendable handle this option is great for getting around the city or for use on large sites where it is difficult to park close to the boiler or tower.

DIGI Dual Case

FG-K28693-KW: DIGI Dual Case (PC 300 foam)

FG-K28694-KW: DIGI Dual Case (EcoScan foam)

FG-K28695-KW: DIGI Dual Case (Stick meter foam)

Black polymer, book opening style case with aluminium frame and drop down work surface. Supplied with two separate compartments; a "wet area" for titration testing and a "dry area" to house all electronic devices. Three foams inside provide ample space for a full compliment of tests.

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