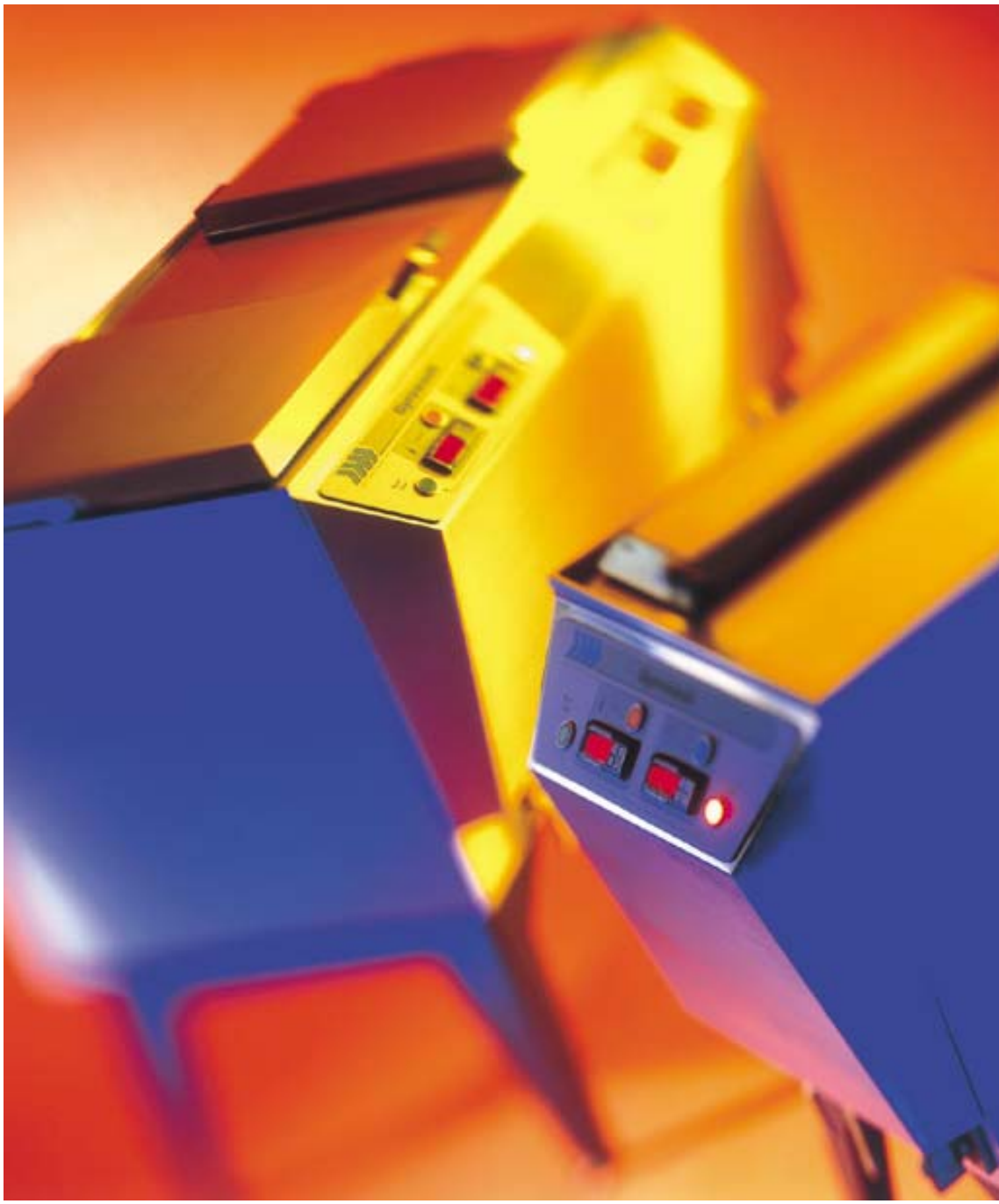
Gyrowash

WASHING & DRY CLEANING COLOUR FASTNESS TESTER



JAMES H.HEAL
& CO. LTD. HALIFAX ENGLAND

» Gyrowash

SETTING NEW **STANDARDS**

Drawing on a wealth of experience and knowledge, James H. Heal – the World's Premier Textile Testing Equipment Company – has significantly improved and enhanced its Gyrowash range of washing and dry cleaning colour fastness testers.

The latest Gyrowash combines all the successful elements of its predecessor with some sophisticated additional features, to set new standards in versatility, productivity and ease of use.

Used to investigate colour fastness to washing, dry cleaning and chlorinated water, of textile and leather specimens, Gyrowash complies with International Standards, and is approved by major leading retailers.

> STANDARDS DRIVEN DESIGN:
All elements of the specification, design and manufacture of Gyrowash have been driven by International Standards, and the versatility that is inherent in the instrument ensures it can accommodate new and revised standards as they evolve.

> UKAS ACCREDITATION:
Accreditation by the *United Kingdom Accreditation Service* is the pinnacle of instrument calibration and is recognised worldwide. James H. Heal is the first company accredited by UKAS to calibrate instruments of this type. A UKAS Calibration Certificate from James H. Heal is the ultimate verification of an instrument's compliance with International Standards.

> ISO 9001:
James H. Heal has held the prestigious ISO 9001 Quality Standard since 1994, covering all aspects of the company, including design, manufacture, maintenance and calibration. ISO 9001 is an endorsement of James H. Heal's reputation for consistently high standards.

> OUTSTANDING DESIGN:
A multi-disciplined project team has combined talent and vision to produce this World Class product. Using the latest technology and project management techniques, the team has satisfied every objective without compromise.

> MANUFACTURING EXPERTISE:
James H. Heal's highly skilled engineers use the finest components and raw materials to produce an instrument of exceptional quality and reliability.

> COMPETITIVE & COST EFFECTIVE:
New technology and advanced manufacturing techniques have enabled James H. Heal to make this feature-packed instrument more competitive and cost-effective than ever.

THE LEADING EDGE OF
TEXTILE TESTING TECHNOLOGY

The Gyrowash Project Team had three simple objectives; create a new range of instruments to World Class standards, fulfil all the demands of James H. Heal's customers and comply with all relevant Test Standards. All three objectives have not only been achieved, but also surpassed with the introduction of new features.

ACCESSIBLE CONTROLS:

Each bath has a conveniently placed and easy to use control panel that incorporates a programmable, electronic temperature controller and a countdown timer. Visual and audible alarms signal the completion of each test.

IMPROVED TEST VESSELS:

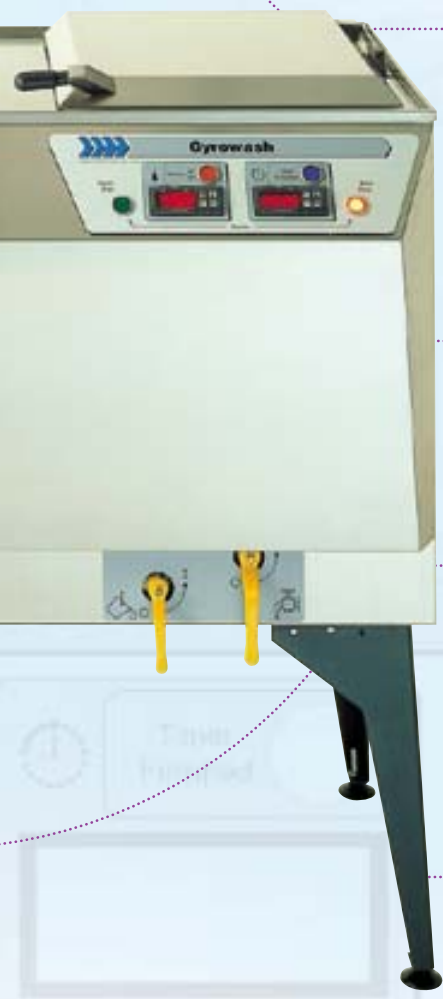
Both the small and the large test vessels have been significantly improved. Chemical resistant seals are standard and the ingenious toggle clamp combines maximum lid security with ease of operation.

MAXIMUM FLEXIBILITY:

To achieve the ultimate in versatility, Gyrowash can accommodate both small and large test vessels, thereby making it possible to use one machine for both European and American standards. As standard, the two bath models feature *completely independent drive* and control systems.

STARTER KIT:

To complete the Gyrowash portfolio, James H. Heal offers a comprehensive range of accessories and consumables to ensure that testing can commence immediately upon receipt of the instrument.



SAFETY & RELIABILITY:

Naturally, operator safety is paramount; therefore James H. Heal has incorporated many safety features in Gyrowash. These include a sensor to automatically stop the rotor when the bath lid is opened; pressing and holding two well-spaced buttons simultaneously is the only means of driving the rotor with the lid raised.

MODEL RANGE:

There is a choice of six Gyrowash models, ranging from a 4-vessel one bath to a 24-vessel two bath. The projected volume of testing determines which model is most suitable.

FRONT MOUNTED WATER LEVEL CONTROLS:

To fully exploit a key feature, permanent connection to a water supply and drain, whilst not essential, is recommended, as this allows the quick and easy draining/ filling of the baths. For test methods specifying a low start temperature, hot water can be quickly drained and replaced with cold, eliminating a cool down period between consecutive tests.

COMPACT DESIGN:

When laboratory space is at a premium, the compact design of Gyrowash is a real benefit. The width is reduced by as much as one third compared with its predecessor. There are no requirements to access the sides of the instrument permitting side-by-side installation. Every model is also supplied with an integral stand, which positions the unit at a comfortable working height.

How to Order

VOLUME OF TEST VESSELS:

- Small = approximately 525 ml
- Large = approximately 1200 ml

ONE BATH

415/4	220/240 V 50 Hz	4 test vessels (small)
415/4	220/240 V 60 Hz	4 test vessels (small)
415/8	220/240 V 50 Hz	8 test vessels (small)
415/8	220/240 V 60 Hz	8 test vessels (small)
415/10L	380/420 V 50 Hz	10 test vessels (large)
415/10L	220/240 V 60 Hz	10 test vessels (large)
415/12	220/240 V 50 Hz	12 test vessels (small)
415/12	220/240 V 60 Hz	12 test vessels (small)

TWO BATHS

415/16(2)	220/240 V 50 Hz	2 x 8 test vessels (small)
415/16(2)	220/240 V 60 Hz	2 x 8 test vessels (small)
415/24(2)	380/420 V 50 Hz	2 x 12 test vessels (small)
415/24(2)	220/240 V 60 Hz	2 x 12 test vessels (small)

TEST VESSELS AND SEALS

718-501 Large Vessel Kit (4 large vessels and 2 mounts)
One kit converts 415/12 to 6 small vessels and 4 large vessels. Two kits convert 415/24(2) to 6 small vessels and 4 large vessels *in each bath*

718-502 Large Vessel Kit (2 large vessels and 1 mount)
One kit converts 415/8 to 4 small vessels and 2 large vessels. Two kits convert 415/16(2) to 4 small vessels and 2 large vessels *in each bath*

718-503 Small Vessel Kit (6 small vessels and 6 bayonets including springs)
One kit converts 415/10L to 10 large vessels and 6 small vessels. Two kits convert 415/10L to 10 large vessels and 12 small vessels

718-510 Spare Small Test Vessel – unnumbered
718-512 Spare Seals for Small Vessels – per set (8)
718-514 Spare Large Test Vessel – unnumbered
718-516 Spare Seals for Large Vessels – per set (4)

ACCESSORIES

766-471 Grey Scale for assessing Change in Colour
766-472 Grey Scale for assessing Staining
718-164 Pack (100) Non-corrodible Steel Balls (washing)
718-163 Pack (50) Non-corrodible Steel Discs (dry cleaning)
718-168 Pack (100) PTFE Rods (BS EN ISO 11643)

CONSUMABLES

702-376 Pack (10 m) Multifibre Adjacent Fabric Type 2 DW
702-377 Pack (50 m) Multifibre Adjacent Fabric Type 2 DW
706-711 Tub (3 kg) Standard Soap
706-712 Tub (1.5 kg) ECE Phosphate Reference Detergent (B)
706-713 Tub (18 kg) ECE Phosphate Reference Detergent (B)
706-714 Pack (500 g) Anhydrous Sodium Carbonate
706-728 Tub (1.5 kg) ECE Non-Phosphate Reference Detergent (A)
706-729 Sack (18 kg) ECE Non-Phosphate Reference Detergent (A)
706-730 Tub (2 kg) TAED (Tetra-Acetylethylene Diamine)

SPARE PARTS

718-520 Spares Kit for 415/4
718-522 Spares Kit for 415/8 and 415/16(2)
718-524 Spares Kit for 415/12
718-526 Spares Kit for 415/24(2)
718-528 Spares Kit for 415/10L

Spare Part Kits contain sufficient spare parts for approximately 2 years normal use

UKAS CALIBRATION
0610
0610SI

HEALINK WORLDWIDE SUPPORT

Healink offers a totally comprehensive, worldwide support programme; providing a full range of support services designed to maximise the potential of your testing resources.

NQA ISO 9001 REGISTERED COMPANY
NATIONAL ACCREDITATION OF CERTIFICATION BODIES

technical data

DIMENSIONS (mm)		Length	Depth*	Height including stand	Height with lid open
	415/4	450	645	1000	1460
	415/8	555	645	1000	1460
	415/10L	1080	645	1000	1460
	415/12	660	645	1000	1460
	415/16(2)	870	645	1000	1460
	415/24(2)	1080	645	1000	1460
	*Allow extra 100mm for services				

MAXIMUM POWER CONSUMPTION (Approximate)			Power (kW)	Current (A)
	415/4	220/240 V 50 Hz	2	8.5
	415/4	220/240 V 60 Hz	2	8.5
	415/8	220/240 V 50 Hz	3.6	16
	415/8	220/240 V 60 Hz	3.6	16
	415/10L	380/420 V 50 Hz	10.5	16 per phase
	415/10L	220/240 V 60 Hz	10.5	16 per phase
	415/12	220/240 V 50 Hz	5.6	24
	415/12	220/240 V 60 Hz	5.6	24
	415/16(2)	220/240 V 50 Hz	7.2	32
	415/16(2)	220/240 V 60 Hz	7.2	32
	415/24(2)	380/420 V 50 Hz	10.5	16 per phase
	415/24(2)	220/240 V 60 Hz	10.5	16 per phase
	All Gyrowash models are single phase, except for 415/10L and 415/24(2) models. The 380/420 V versions require a 3-phase, neutral and earth supply. The 220/240 V versions require a 3-phase and earth (only) supply.			

STANDARDS

Small Test Vessel (525 ml)

BS 1006: UK-LE, UK-TO
BS EN 20105: C01-C05
BS EN ISO 105: C06, C08, D01, E03, X05
BS EN ISO 11643
AATCC 61:1A, 132, 151
M&S: C4A, C5, C10A, C22, C23, C37, P3B

Large Test Vessel (1200 ml)

AATCC 61:2A-5A, 86

AGENT

We reserve the right to alter the specification or modify the appearance without notice.

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