EUROPE'S LARGEST SELECTION OF TEST & MEASUREMENT EQUIPMENT FOR HIRE

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WHEN YOU CAN HIRE

Nationwide Low Call 0333 6000 600

Micro-Baths



- World's smallest portable calibration baths
- Calibrates sensors of any size or shape
- Stability to ± 0.015 °C
- Ranges from –30 °C to 200 °C

Need portability and extreme stability? Hart Micro-Baths have both. We invented the Micro-Bath. And, while many have tried to duplicate it, none of them use proprietary Hart Scientific controllers, so none of them deliver performance like a Hart bath. Micro-Baths can be used anywhere for any type of sensor. The 6102 weighs less than 4.5 kg (10 lb), with the fluid. It's lighter and smaller than most dry-wells, has a spill-proof lid, and is easier to carry than your lunch. You can take it where you need to go without carts or excessive effort. Micro-Baths can even be transported with the fluid in them.

Wherever you go with your Micro-Bath, you can count on its performance. Each model is stable to \pm 0.03 °C or better, depending on the fluid you use. Uniformity is \pm 0.02 °C or better for low uncertainties using a reference thermometer. Display accuracy has been improved to \pm 0.25 °C for quick calibrations without a reference thermometer. In short, you get the stability and precision of a liquid bath in a drywell-sized package. Don't be fooled by competitors who pour oil into a dry-well

and call it a bath. Hart Micro-Baths are maximized for true fluid-bath performance.

With a 48 mm (1.9-inch) diameter, 140 mm (5.5-inch) deep tank, a Micro-Bath can calibrate any type of sensor including short, square, or odd-shaped sensors. The problems of fit and immersion are virtually eliminated by using a fluid medium rather than a dry-block calibrator. Micro-Baths are perfect for liquidin-glass and bimetal thermometers.

The 6102 has a temperature range from 35 °C to 200 °C, the 7102 covers -5 °C to 125 °C, and the 7103 extends from -30 °C to 125 °C. Stability, uniformity, and accuracy specifications cover the entire range for each bath, not just the best temperature.

All Micro-Baths have RS-232 ports, come with our Interface-*it* software, and can be used with Hart's MET/TEMP II software (described on page 97). Also included are contacts to calibrate a thermal switch, eight set-point memory storage, ramp-rate adjust, and over-temperature safety cutout. You may have noticed we haven't touted our CFC-free refrigeration. Yes, cold Micro-Baths are CFC-free, and also compressor-free. That's right—no heavy, noisy compressor to lug around. We achieve our temperature range and stability with only one moving part. This means more durability and less weight.

Hart manufactures and sells temperature calibration baths of every size and shape, and now we have the smallest and lightest baths in the industry to go with the dozens of other models we make.

Look at the specs, price, and value of these portable instruments and you'll know why Hart Scientific is the numberone company in this business.



Micro-Baths

Specifications	6102	7102	7103				
Range	35 °C to 200 °C (95 °F to 392 °F)	–5 °C to 125 °C (23 °F to 257 °F)	–30 °C to 125 °C (–22 °F to 257 °F)				
Accuracy	± 0.25 °C						
Stability	± 0.02 °C at 100 °C (oil 5013) ± 0.03 °C at 200 °C (oil 5013)	± 0.015 °C at –5 °C (oil 5010) ± 0.03 °C at 121 °C (oil 5010)	± 0.03 °C at –25 °C (oil 5010) ± 0.05 °C at 125 °C (oil 5010)				
Uniformity	± 0.02 °C						
Resolution	0.01 °C/°F						
Operating Temperature	5 °C to 45 °C						
Heating Time	25 °C to 200 °C: 40 minutes	25 °C to 100 °C: 30 minutes	25 °C to 100 °C: 35 minutes				
Cooling Time	200 °C to 100 °C: 35 minutes	25 °C to 0 °C: 30 minutes	25 °C to –25 °C: 45 minutes				
Well Size	64 mm dia. x 140 mm deep (2.5 x 5.5 in) (working area is 48 mm [1.9 in] in diameter)						
Size (WxHxD)	14 x 26 x 20 cm (5.5 x 10.38 x 8 in)	18 x 31 x 24 cm (7.2 x 12 x 9.5 in)	23 x 34 x 26 cm (9 x 13.2 x 10.5 in)				
Weight	4.5 kg (10 lb) with fluid	6.8 kg (15 lb) with fluid	9.8 kg (22 lb) with fluid				
Volume	0.75 L (1.6 pints)	0.75 L (1.6 pints)	1.0 L (2.11 pints)				
Power	115 V ac (± 10 %), 2.3 A or 230 V ac (± 10 %), 1.1 A, switchable, 50/60 Hz, 270 W	115 V ac (± 10 %), 1.8 A or 230 V ac (± 10 %), 0.9 A, switchable, 50/60 Hz, 200 W	94–234 V ac (± 10 %), 50/60 Hz, 400 W				
Computer Interface	RS-232 included with free Interface-it software						
NIST-Traceable Calibration	Data at 50 °C, 100 °C, 150 °C, and 200 °C	Data at −5 °C, 25 °C, 55 °C, 90 °C, and 121 °C	Data at -25 °C, 0 °C, 25 °C, 50 °C, 75 °C, 100 °C, and 125 °C				

Ordering Information - 6102		Ordering Information - 7102		Ordering Information - 7103	
6102	Micro-Bath, 35 °C to 200 °C (includes a transport seal lid and a 2082-M test lid)	7102	Micro-Bath, –5 °C to 125 °C (includes a transport seal lid and a 2082-P test lid)	7103	Micro-Bath, -30 °C to 125 °C (in- cludes a transport seal lid and a 2085 test lid)
2082-M	Spare test lid	2082-P	Spare test lid	2085	Spare test lid
2083	76 mm (3 in) tank extension adapter (affects stability, unifor- mity, and range at extreme temperatures)	2083	76 mm (3 in) tank extension adapter (affects stability, unifor- mity, and range at extreme temperatures)	5010-1L 9317 3320	Silicone oil, type 200.05, 1 liter (usable range: -40 °C to 130 °C) Carrying Case Spare Stir Bar, Micro-Bath
5013-1L	Silicone oil, type 200.20, 1 liter (usable range: 10 °C to 230 °C)	5010-1L	Silicone oil, type 200.05, 1 liter (usable range: –40 °C to 130 °C)	5520	Spare Sur Bur, Miero Baur
9310	Carrying Case	9311	Carrying Case		
3320	Spare Stir Bar, Micro-Bath	3320	Spare Stir Bar, Micro-Bath		

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OUR COMMITMENT TO YOU

A wealth of knowledge and experience.

You can take advantage of expert advice to ensure you get the best, most appropriate and cost effective equipment for the job. We supply a wide variety of industries, so if there is another way to do the job or save you time and money we'll pass on the benefit of our experience for free.

Honest advice, just a phone call away.

If we don't have a particular item, rather than hiring you something that won't do the job, we would rather direct you to an alternative supplier. You will always be provided with full instructions and if you still need help, call our technical team on Nationwide Low Call 0333 6000 600. Our aim is to save you time, frustration and money.

Top quality equipment from major manufacturers.

With Inlec you'll get the most accurate, reliable and wellmaintained equipment available. Prices are regularly reviewed to ensure you always enjoy the best value for money. We have made a significant investment in test equipment so we ensure that it's well packed to minimise damage and delay.

We really do listen to you.

You won't waste your time contacting Inlec. Every request for equipment is logged and carefully considered. Listening to our customers helps keep our product range up to date and relevant. If you are unhappy about any aspect of our service please let us know so we can put it right.

YOUR 5 WAY GUARANTEE

O GUARANTEE SAME DAY DESPATCH

We understand why prompt delivery is important to you. So, if we confirm your order before 3pm, you are guaranteed same day despatch.

2 OUR PRICE GUARANTEE

Inlec guarantee you real value for money. Our price match policy is simple - if you can hire the same product for less elsewhere, we guarantee to match that price and reduce it by a further 10% of the difference - and still deliver our industry leading technical and customer support.

For full details check our price-match guarantee online

O TOP QUALITY GUARANTEED

All equipment is thoroughly checked prior to dispatch to ensure you receive it in full, safe working order. Your shipment will be securely packed and include manufacturer's instructions, accessories or consumables and a valid calibration certificate where appropriate. In addition, Inlec offer a 24 hour replacement service if you decide the equipment is not suitable for your application*.

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*subject to availability and conditions

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