



**Klasmeier**  
*Präzision in Temperatur*



**ALUOXYD - KALIBRIEROFEN**  
**50°C BIS 700°C**

**29.294,00 €**

- **Temperaturbereich von 50°C bis 700°C**
- **Temperaturfixpunkte oder Vergleichskalibrierung**
- **Großer Temperaturbereich; hervorragende Messunsicherheit**

Hersteller: ISOTECH

Modell: 875

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**SKU:** KK-653

**Categories:** [Kalibrieröfen](#)

## TECHNISCHE DATEN

<b>Modell Nr.</b>	<b>875</b>
<b>Temperaturbereich</b>	50°C bis 700°C
<b>Messunsicherheit</b>	Vergleichskalibrierung $\pm 0,035^\circ\text{C}$ bei 660°C Fixpunktkalibrierung $\pm 0,001^\circ\text{C}$ bis $\pm 0,006^\circ\text{C}$
<b>Arbeitsbereich</b>	Durchmesser 67mm, 475mm tief
<b>Heizungen</b>	3 x 1KW
<b>Hilfsenergie</b>	3kW (3x 1kW Heizung) 220/240V, 50/60Hz
<b>Aufheizzeit</b>	von 50°C zu 700°C in unter 240 min



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**Druckluft**

1 Bar und ca. 30 Liter/Minute bei 100°C  
(50L max)

**Schnittstelle**

Serielle Schnittstelle, PC Anschlusskabel und Software

**Sicherheitseinrichtung**

Schmelzsicherungen,  
Abschaltung bei verstopftem  
Filter, Anzeige bei zu geringer  
Luftversorgung und  
Betriebsstundenzähler

**Anschluss**

einphasiger Netzanschluss

**Abmessungen**

Höhe (gesamt) 1570mm  
Höhe (Arbeitshöhe) 880mm  
Tiefe 640mm  
Breite 580mm

**Gewicht**

Fluidisiertes Medium 22kg  
Gesamt ca. 85kg

## DOWNLOADS

**Fluidized Calibration Bath Model 875**

- Wide Temperature Range, High Accuracy
- Wide liquid-to-liquid flow rate capability
- Comparison Calibration in use with Fixed Points

The newest fluidized calibration bath performs rigorous bath tests in all respects under temperature range, low headroom and better unobstructed. The bath is the result of 20 years research and development in low pressure, constant technology and design. Recent developments have enabled the bath facilities to be extended even further. It is now available suitable for liquid to glass thermometer calibration. To achieve this, the filter and exhaust system were redesigned to cope with the increased level of powder needed for liquid to glass thermometer calibration.

The result is a calibration system to National Standards. The performance is only matched by fixed point technology. The profiles are so small that the bath has been used by National Laboratories for fixed points of Indium through Aluminium, with great success. In comparison, inside 2 sigma uncertainty of  $\pm 0.002^\circ\text{C}$  at  $200^\circ\text{C}$  and  $\pm 0.001^\circ\text{C}$  at  $900^\circ\text{C}$  can be obtained.

This is the only product capable of covering a very wide temperature range without a change of thermal media. One main fluidized bath, the FC3 bath consists of a container of aluminium oxide powder with a porous base plate. Sufficient air is passed through the base plate to maintain the powder into a fluid-like state so that it will flow, display buoyancy effects and have good heat transfer characteristics.

An advantage of many fluidized bed baths is that good temperature stability and uniformity cannot be achieved in the fluidized medium bath. They are subject to air drag force effects or by mixing the fluidizing action in the powder around the work piece - when ready or by completely covering the base of the required temperature. This is not the case with the 875. A full evaluation report is available upon request.

Model	875
Temp Range	50°C - 900°C
Volume (litres)	40 litres (approx. 10 litres deep)
Accuracy Stability	$\pm 0.002^\circ\text{C}$ at $100^\circ\text{C}$
Stability (1 day)	$\pm 0.001^\circ\text{C}$ at $100^\circ\text{C}$
Stability (10 days)	$\pm 0.001^\circ\text{C}$ at $100^\circ\text{C}$
Vertical Uniformity	$\pm 0.001^\circ\text{C}$ at $100^\circ\text{C}$
	$\pm 0.001^\circ\text{C}$ at $200^\circ\text{C}$
	$\pm 0.001^\circ\text{C}$ at $300^\circ\text{C}$
	$\pm 0.001^\circ\text{C}$ at $400^\circ\text{C}$
	$\pm 0.001^\circ\text{C}$ at $500^\circ\text{C}$
	$\pm 0.001^\circ\text{C}$ at $600^\circ\text{C}$
	$\pm 0.001^\circ\text{C}$ at $700^\circ\text{C}$
	$\pm 0.001^\circ\text{C}$ at $800^\circ\text{C}$
	$\pm 0.001^\circ\text{C}$ at $900^\circ\text{C}$
Heating Rate	50°C/30 min to 200°C
Construction Materials	1 BAR, 316 stainless steel, 316L SS 1.1 steel, Inconel, Super Invar, PTFE, Gaskets and O-rings
Dimensions	580mm High, 580mm Deep, 1070mm High (980mm by Top Panel)
Weight	85kg (including 20kg of Medium Powder)
Warranty	Guaranteed for 100,000 hours
Power	Max 2.5 x 1000 Watts, 240V AC, 50/60 Hz
Use in Other	Model 875 Fluidized Calibration Bath

See a complete report on the back.

**ISOTECH**

**875 LIQUID IN GLASS THERMOMETER SUPPLEMENTARY**  
User Maintenance Manual/Handbook

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The company is always willing to give technical advice and assistance where appropriate. Equally, because of the programme of continual development and improvement we reserve the right to correct or alter specifications and design without prior notice. This publication is for information only.

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Datenblatt

Aluoxyd-Kalibrierbad 875

Handbuch

Aluoxyd-Kalibrierbad 875

**VIDEO**



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