



# Ovens & Incubators

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Version 1.0

# Overview

LabCo Scientific offers ovens and incubators from IKA® that deliver exceptional control, reliability and energy efficiency for a wide variety of laboratory uses. Across the range, our products are designed for drying, ageing, heating as well as a range especially designed for microbiological incubation.

They feature advanced temperature control, intuitive operation and durable construction across the entire product range. They are ideal for recording consistent, reproducible results for a wide range of scientific environments.

## OVENS

The 125 Basic and 125 Control ovens are high-performance laboratory units designed for drying, heating, and ageing applications. Both models offer precise temperature control and essential features, while the Control model adds advanced functionality, including an extended temperature range, larger display, data logging and enhanced safety features.



## INCUBATOR

The 125 F Incubator is a versatile, digital incubator designed for precise temperature control for microbiological and research applications.

It features a large capacity, precise temperature control, an inner glass door for easy observation, user-friendly controls, stackable design, plus multiple shelf options.

INC 125 F Digital

## SHAKING INCUBATORS

The KS3000i/IC and KS4000i/IC are advanced orbital shaking incubators designed for precise temperature and agitation control in laboratories. They offer reliable performance for applications like cell culture, microbiology and biochemical research.

The IC models feature integrated cooling coils for external chilling, enabling sub-ambient operation.

With user-friendly controls, safety features and a range of sizes, these units are ideal for consistent, unattended operation across a wide range of scientific environments.



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# Ovens

## 125 BASIC

This 125L oven is ideal for tempering, drying, ageing and heating in the laboratory. It features an odourless insulation design, that also ensures lower operating costs.

Fast heat up times and a precise temperature control guarantee reproducible test results. The oven can be controlled by USB and test parameters can be recorded for subsequent analysis.

Ideal for a range of applications, including industry, schools and universities, research and quality control.



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### FEATURES + BENEFITS

- Simple, reliable operation
- 125L capacity
- Glass door
- 2 chrome-plated wire grid trays included, supports up to 6 grid shelves
- Electronically adjustable ventilation
- Adjustable temperature limit
- Clear display and control menu
- Key lock function
- Timer

### OPERATION



#### Supplied with:

- Oven 125 Basic
- 2x IOT 1.00 trays
- 2x tilt protection
- Screwdriver (for adjustment of temperature limit)
- USB A-B cable
- Calibration certificate at 160°C

#### Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
<a href="#">00200039561</a>	125 Basic Oven	Each

# Ovens

## 125 CONTROL

The 125 Control oven is a high-performance laboratory oven designed for precise temperature control. It features PID temperature control, adjustable fan speed, a programmable timer as well as external sensor support.

It features two TFT displays, USB/Ethernet connectivity and data logging capabilities. It is ideal for heating and drying tasks that require high accuracy, documentation and reproducibility.



IKA®

### FEATURES + BENEFITS

- Advanced digital control with PID regulation
- 125L capacity with interior lighting
- Glass door
- 2 chrome-plated wire grid trays included, supports up to 6 grid shelves
- Forced convection heating (fan adjustable in 10 steps)
- Two, large TFT displays for quick viewing of parameters
- Real time clock and time-delayed start
- Automatic fan switch off when door is open
- Test parameters can be stored directly on a USB
- Key lock function

## OPERATION

125L capacity with interior lighting



Automatic fan switch off when door is open

Wide temperature range  
room temp. +5°C - 300°C

Supports up to 6 grid shelves

Real-time clock and  
time-delayed start

#### Supplied with:

- Oven 125 Control
- 2x IOT 1.00 trays
- 2x tilt protection
- Screwdriver (for adjustment of temperature limit)
- USB A-B cable
- Calibration certificate at 160°C

### Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
<a href="#">0020003996</a>	125 Control Oven	Each



# TECHNICAL SPECIFICATIONS

SPECIFICATIONS	125 BASIC	125 CONTROL
HEAT OUTPUT	2,400W	2,400W
WORKING TEMPERATURE	Room temp. +5°C to 250°C	Room temp. +5°C to 300°C
ADJUSTABLE SAFETY CIRCUIT	-	50 - 320°C
ADJUSTMENT AND DISPLAY RESOLUTION	0.1K	0.1K
TEMPERATURE STABILITY (150°C, CENTRE, STANDARD DOOR)	±0.5K	±0.5K
TEMPERATURE DISPLAY	Yes	Yes
TIMER	Yes	Yes
TIMER DISPLAY	7 segment LED	LED
TIME SETTING RANGE	1 - 144,000 minutes	1 - 142,560 minutes
NUMBER OF TRAYS MAX.	6	6
LOAD FOR ONE TRAY MAX.	30kg	30kg
OPERATING AREA INNER CHAMBER	550 x 525 x 450mm	550 x 525 x 450mm
TOTAL VOLUME INNER CHAMBER	125L	125L
AIR OUTLET PORT DIAMETER INSIDE	48mm	48mm
THERMAL SAFETY DEVICES ACCORDING TO DIN12880	TB class 1	TB class 1
DIMENSIONS (WxHxD)	700 x 825 x 650mm	700 x 825 x 650mm
WEIGHT	81kg	89kg
PROTECTION CLASS	IP20	IP20
RS232 INTERFACE	-	Yes
USB INTERFACE	USB-B	USB-B
POWER INPUT	2,450W	2,500W

Note: 15 amp plug

## ACCESSORIES

### IOT1.00 & IOT1.10 TRAYS



#### Technical Specifications

MODEL	IOT1.00	IOT1.10
DIMENSIONS (WxHxD)	546 x 34 x 410mm	546 x 34 x 410mm
WEIGHT	2.1kg	2.84kg
MAX. LOADING CAPACITY	30kg	60kg

#### Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
<a href="#">0020024935I</a>	IOT1.00 Tray	Each
<a href="#">0020007600I</a>	IOT1.10 Tray	Each

### IOB1.10 ROLLER BOX

- Dimensions (WxHxD): 700 x 280 x 650mm
- Weight: 28kg



#### Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
<a href="#">0020007602I</a>	IOB1.10 Roller Box	Each

### IOF1.20 SPACER FRAME

- Weight: 7.46kg



#### Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
<a href="#">0035001326I</a>	IOF1.20 Spacer Frame	Each

### IOF1.10 ROLLER FRAME

- Dimensions (WxHxD): 700 x 160 x 650mm
- Weight: 16.37kg



#### Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
<a href="#">0020007601I</a>	IOF1.10 Roller Frame	Each

### IOP1.10 TABLE TOP WORK PLATE

- Flat work plate for use inside oven

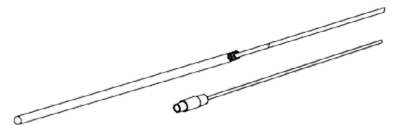


#### Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
<a href="#">0020007603I</a>	IOP1.10 Table Top Work Plate	Each

### PT100.31 TEMPERATURE SENSOR

- Stainless steel
- Suitable up to 300°C



#### Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
<a href="#">0020009564I</a>	PT100.31 Temperature Sensor	Each

# Incubator

## INC 125 F DIGITAL

The INC 125 F digital convection incubator features precise temperature control and simple and intuitive operation. The supply of preheated air into the temperature chamber ensures fast, stable and uniform performance. It is ideal for microbiological applications up to 100°C.

### FEATURES + BENEFITS

- Easy to clean
- Precise temperature control
- Simple and intuitive operation
- Versatile accessories
- 2 chrome-plated wire grid trays included, supports up to 6 grid shelves



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### OPERATION



Decontamination mode  
(120°C) for disinfection

Large, easy to read LCD display



Counter, timer and  
auto-timer function

Inner glass door for easy observation  
without temperature loss

#### Supplied with:

- INC 125 F Digital Incubator
- 2x IOT 2.10 wire grid trays, chrome plated
- 2x tilt protection
- USB A-B cable
- Calibration certificate at 37°C

Stackable



See the IKA® Incubator in action:



WATCH NOW

### Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
<a href="#">00201171721</a>	INC 125 F Digital Incubator	Each



# TECHNICAL SPECIFICATIONS



SPECIFICATIONS	INC 125 F DIGITAL
HEAT OUTPUT	750W
WORKING TEMPERATURE	Room temp. +8°C - 100°C
ADJUSTMENT AND DISPLAY RESOLUTION	0.1K
TEMPERATURE STABILITY (37°C @ 22°C)	±0.3K
TEMPERATURE HOMOGENEITY (37°C @ 22°C)	±0.3K
TEMPERATURE HEAT UP TIME (37°C @ 22°C)	8 minutes
TEMPERATURE DOOR RECOVERY (37°C @ 22°C)	3 minutes
TEMPERATURE DISPLAY	Yes (LCD)
TIMER	Yes (LCD)
TIME SETTING MAX.	100 days
NO. OF TRAYS MAX.	6
LOAD FOR 1 TRAY MAX.	20kg
OPERATING AREA INNER CHAMBER	550 x 550 x 415mm
INNER GLASS DOOR	Yes
TEMPERATURE SENSOR CONTROL	PT 100 4 Wire
DIMENSIONS (WxHxD)	700 x 720 x 635mm
WEIGHT	60kg
USB INTERFACE	USB-B
VOLTAGE	220 - 240V
POWER INPUT	800W

## ACCESSORIES

### IOT1.00 & IOT1.10 TRAYS



#### Technical Specifications

MODEL	IOT1.00	IOT1.10
DIMENSIONS (WxHxD)	546 x 34 x 410mm	546 x 34 x 410mm
WEIGHT	2.1kg	2.84kg
MAX. LOADING CAPACITY	30kg	60kg

#### Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
<a href="#">0020024935I</a>	IOT1.00 Tray	Each
<a href="#">0020007600I</a>	IOT1.10 Tray	Each

### IOB1.10 ROLLER BOX

- Dimensions (WxHxD): 700 x 280 x 650mm
- Weight: 28kg



#### Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
<a href="#">0020007602I</a>	IOB1.10 Roller Box	Each

### IOF1.10 ROLLER FRAME

- Dimensions (WxHxD): 700 x 160 x 650mm
- Weight: 16.37kg



#### Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
<a href="#">0020007601I</a>	IOF1.10 Roller Frame	Each

### IOP1.10 TABLE TOP WORK PLATE

- Flat work plate for use inside oven



#### Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
<a href="#">0020007603I</a>	IOP1.10 Table Top Work Plate	Each

# Shaking Incubators

## Overview of Models

### KS3000i / IC & KS4000i / IC

The KS3000i/IC and KS4000i/IC are precision orbital shaking incubators from IKA®, designed for precise control of temperature and speed in laboratory environments. All models feature PID temperature regulation, user-friendly LED interfaces, variable speed control and a durable construction, ensuring reliable and consistent results.

The KS3000i/IC is a compact model with a 50L inner chamber capacity, offering efficient sample handling and consistent performance. The KS3000i IC includes a built-in cooling coil for connection to an external chiller, supporting sub-ambient applications.

The KS4000i/IC offers a larger 90L inner chamber capacity, suitable for higher capacity workflows. The KS4000i IC also includes a built-in cooling coil for connection to an external chiller, supporting sub-ambient applications.

Both ranges are ideal for research, microbiology and quality control, allowing for consistent, unattended operation in demanding lab environments.



KS3000i / IC



KS4000i / IC

## PRODUCT COMPARISON GUIDE

SPECIFICATIONS	KS3000I	KS3000I IC	KS4000I	KS4000I IC
PERMISSIBLE SHAKING WEIGHT (INCL. ATTACHMENTS)	7.5kg		20kg	
MOTOR RATING INPUT	45W		82W	
MOTOR RATING OUTPUT	10W		24W	
SPEED RANGE	10 - 500rpm			
TEMPERATURE RANGE	RT +5°C - 80°C	RT -10°C - 80°C	RT +5°C - 80°C	RT -10°C - 80°C
CONNECTIONS FOR EXTERNAL COOLING	-	Yes	-	Yes
EMBEDDED COOLING COIL	-	Yes	-	Yes
OPERATING AREA INNER CHAMBER	330 x 330 x 258mm		440 x 440 x 352mm	
TOTAL VOLUME INNER CHAMBER	50L		90L	
DIMENSIONS (WxHxD)	465 x 430 x 695mm		580 x 520 x 750mm	
WEIGHT	35kg	37kg	50kg	55kg
RS232 INTERFACE	Yes			
USB INTERFACE	Yes		-	

# Shaking Incubators

## ORBITAL INCUBATOR KS3000I & KS3000I IC

Innovative incubator orbital shakers, the IKA® KS3000i and KS3000i IC offer precise temperature and speed control within a compact 50L chamber capacity. Designed to allow for simple, unattended operation in a temperature controlled environment.

The IC model includes an embedded cooling coil for external chilling, ideal for sub-ambient lab applications.

### FEATURES + BENEFITS

- Integrated PID temperature control (use of two PT1000 temperature sensors)
- Additional connection of temperature sensor (e.g. PT1000.60) available in junction box of workspace
- Electronic timer switch: 0 - 999h (set by the minute or by the hour)
- Collecting tray with drain hose on rear of unit
- All functions can be controlled and documented with Labworldsoft®



**IKA®**

### OPERATION

Unit automatically stops when the hood is lifted or the device is disturbed

7.5kg permissible shaking weight (incl. attachments)

Large LED display for speed and time settings

Antimicrobial coating on controls to reduce bacteria

Compact 50L chamber capacity

Electronic temperature and speed control

Built-in cooler for connection to an external cooling unit (KS3000i IC unit only)



#### Supplied with:

- KS3000i / KS3000i IC
- PT1000.80 temperature sensor, stainless steel
- Clamping screws (PK4)
- USB A-B cable

#### Ordering Information

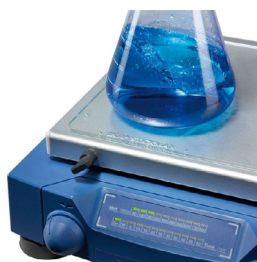
PRODUCT CODE	DESCRIPTION	PACK SIZE
<a href="#">0003940000I</a>	KS3000i Shaker Orbital Incubator	Each
<a href="#">0003940100I</a>	KS3000i IC Shaker Orbital Incubator	Each

# TECHNICAL SPECIFICATIONS

SPECIFICATIONS	KS3000I	KS3000I IC
TYPE OF MOVEMENT	Orbital	
SHAKING STROKE	20mm	
PERMISSIBLE SHAKING WEIGHT (INCL. ATTACHMENT)	7.5kg	
MOTOR RATING INPUT	45W	
MOTOR RATING OUTPUT	10W	
PERMISSIBLE ON TIME	100%	
SPEED MIN. (ADJUSTABLE)	10rpm	
SPEED RANGE	10 - 500rpm	
SPEED DISPLAY	LED	
SPEED DEVIATION	1%	
SPEED ADJUSTMENT	1rpm steps	
TIMER	Yes	
TIMER DISPLAY	7 segment LED	
TIME SETTING MIN.	1 second	
TIME SETTING RANGE	1 - 59,940 minutes	
OPERATING MODE	Timer and continuous operation	
TEMPERATURE RANGE	Room temp. +5°C - 80°C	Room temp. -10°C - 80°C
HEAT OUTPUT	1,000W	
SET TEMPERATURE RESOLUTION	0.1K	
CONTROL ACCURACY WITH SENSOR (1 VESSEL 0.5L H <sub>2</sub> O, RT 22°C, T=37°C)	±0.5K	
TEMPERATURE DISPLAY	Yes	
TEMPERATURE STABILITY (1 VESSEL, 0.5L, RT 25°C, T=37°C)	±0.1K	
CONNECTIONS FOR EXTERNAL COOLING	-	Yes
EMBEDDED COOLING COIL	-	Yes
OPERATING AREA INNER CHAMBER	330 x 330 x 258mm	
TOTAL VOLUME INNER CHAMBER	50L	
TEMPERATURE STABILITY (1 VESSEL 0.5L, RT 25°C, T=37°C)	±0.05K	
TEMPERATURE HOMOGENEITY (5 VESSELS 0.5L, RT 25°C, T=37°C)	±0.5K	
HEIGHT WITH OPEN HOOD	875mm	
DIMENSIONS ( WxHxD)	465 x 430 x 695mm	
WEIGHT	35kg	37kg
PROTECTION CLASS (DIN EN 60529)	IP30	
RS 232 INTERFACE	Yes	
USB INTERFACE	USB-B	



# ACCESSORIES



[0003920000I](#)

AS260 STICKMAX Universal  
Adhesive Mat 200mm x 200mm



[0008017400I](#)

AS260.1 Universal Attachment



[0003149000I](#)

AS1.60 Basic Holder  
For use with AS1.61 clamping roll



[0003115500I](#)

AS260.2 Fixing Clip Attachment



[0003120600I](#)

AS260.3 Dish Attachment



[0003030501I](#)

AS1.61 Clamping Roller  
335mm length  
For use with AS1.60 basic holder



[0003120900I](#)

AS260.5 Separating Funnel  
Attachment



[0001234300I](#)

AS2.1 25mL Flask Fixing Clip



[0001234400I](#)

AS2.2 50mL Flask Fixing Clip



[0001234500I](#)

AS2.3 100mL Flask Fixing Clip



[0001234600I](#)

AS2.4 200/250mL Flask Fixing Clip



[0001234700I](#)

AS2.5 500mL Flask Fixing Clip



[0003819300I](#)

AS2.6 1,000mL Flask Fixing Clip



[0004443000I](#)

PT1000.80 Temperature Sensor  
3mm diameter, Stainless Steel



[0002616700I](#)

PC1.1 Cable RS232/9 M/F  
3m length

# Shaking Incubators

## ORBITAL INCUBATOR KS4000i & KS4000i IC

Innovative incubator orbital shakers, the IKA® KS4000i and KS4000i IC offer precise temperature and speed control in a large, 90L chamber capacity. Designed to allow for simple, unattended operation in a temperature controlled environment.

The IC model includes an embedded cooling coil for external chilling, ideal for sub-ambient lab applications.

### FEATURES + BENEFITS

- Integrated PID temperature control (use of two PT1000 temperature sensors)
- Additional connection of temperature sensor (e.g. PT1000.60) available in junction box of workspace
- Electronic timer switch: 0 - 999h (set by the minute or by the hour)
- Collecting tray with drain hose on rear of unit
- All functions can be controlled and documented with Labworldsoft®



**IKA®**

### OPERATION

Unit automatically stops when the hood is lifted or the device is disturbed

20kg permissible shaking weight (incl. attachments)

Large LED display for speed and time settings

Antimicrobial coating on controls to reduce bacteria

Large, 90L chamber capacity

Electronic temperature and speed control

RS232 interface

Built-in cooler for connection to an external cooling unit (KS4000i IC unit only)

### Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
<a href="#">0003510000i</a>	KS4000i Shaker Orbital Incubator	Each
<a href="#">0003510100i</a>	KS4000i IC Shaker Orbital Incubator	Each

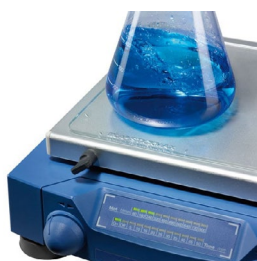
### Supplied with:

- KS4000i / KS4000i IC
- PT1000.60 temperature sensor, stainless steel
- Clamping screws short (PK4)
- Clamping screws long (PK4)
- RS232 cable

# TECHNICAL SPECIFICATIONS

SPECIFICATIONS	KS4000I	KS4000I IC
TYPE OF MOVEMENT	Orbital	
SHAKING STROKE	20mm	
PERMISSIBLE SHAKING WEIGHT (INCL. ATTACHMENT)	20kg	
MOTOR RATING INPUT	82W	
MOTOR RATING OUTPUT	24W	
PERMISSIBLE ON TIME	100%	
SPEED MIN. (ADJUSTABLE)	10rpm	
SPEED RANGE	10 - 500rpm	
SPEED DISPLAY	LED	
SPEED DEVIATION	±5rpm	
SPEED ADJUSTMENT	1rpm steps	
TIMER	Yes	
TIMER DISPLAY	7 segment LED	
TIME SETTING RANGE	1 - 59,940 minutes	
OPERATING MODE	Timer and continuous operation	
TEMPERATURE RANGE	Room temp. +5°C - 80°C	Room temp. -10°C - 80°C
HEAT OUTPUT	1,000W	
SET TEMPERATURE RESOLUTION	0.1K	
CONTROL ACCURACY WITH SENSOR (1 VESSEL 0.5L H <sub>2</sub> O, RT 22°C, T=37°C)	±0.5K	
TEMPERATURE DISPLAY	Yes	
TEMPERATURE STABILITY (1 VESSEL 0.5L, RT 25°C, T=37°C)	±0.1K	
CONNECTIONS FOR EXTERNAL COOLING	-	Yes
EMBEDDED COOLING COIL	-	Yes
OPERATING AREA INNER CHAMBER	440 x 440 x 352mm	
TOTAL VOLUME INNER CHAMBER	90L	
TEMPERATURE STABILITY (1 VESSEL 0.5L, RT 25°C, T=37°C)	±0.05K	
TEMPERATURE HOMOGENEITY (5 VESSELS 0.5L, RT 25°C, T=37°C)	±0.5K	
HEIGHT WITH OPEN HOOD	875 mm	
DIMENSIONS (WxHxD)	580 x 520 x 750mm	
WEIGHT	50kg	55kg
PROTECTION CLASS	IP30	
RS232 INTERFACE	Yes	

# ACCESSORIES



[0003920000I](#)

AS260 STICKMAX Universal  
Adhesive Mat 200mm x 200mm



[0008022200I](#)

AS4000.1 Universal Attachment  
To suit KS4000



[0003710200I](#)

AS1.400 Basic Holder  
To suit KS4000  
For use with AS1.401 clamping roll



[0003710100I](#)

AS4000.2 Fixing Clip Attachment  
To suit KS4000



[0003710000I](#)

AS4000.3 Dish Attachment  
To suit KS4000



[0003712000I](#)

AS1.401 Clamping Roller  
417mm length  
To suit KS4000  
For use with AS1.400 basic holder



[0003712300I](#)

AS1.402 Fastening Screw  
To suit KS4000



[0001234300I](#)

AS2.1 25mL Flask Fixing Clip



[0001234400I](#)

AS2.2 50mL Flask Fixing Clip



[0001234500I](#)

AS2.3 100mL Flask Fixing Clip



[0001234600I](#)

AS2.4 200/250mL Flask Fixing Clip



[0001234700I](#)

AS2.5 500mL Flask Fixing Clip



[0003819300I](#)

AS2.6 1,000mL Flask Fixing Clip



[0003516800I](#)

PT1000.60 Temperature Sensor  
3mm diameter, Stainless Steel



[0002616700I](#)

PC1.1 Cable RS232/9 M/F  
3m length



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See the full product range online.

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