

designed for scientists

IKA Oven 125 basic dry IKA Oven 125 basic dry - glass



Device setup/Dangerous parts

Device setup





Fig. 1

<u>Item</u>	Designation
1	Mains switch
2	Door handle
3	Device foot
4	Operator Panel and display
5	USB interface and temperature limit
6	Mains socket
7	Venting flap

Dangerous parts



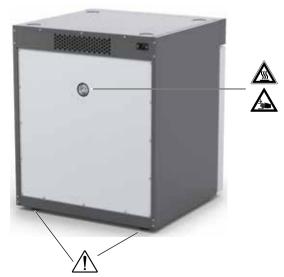


Fig. 2



Contents

	Page
Device setup / Dangerous parts	
EU Declaration of conformity	
Explication of warning symbols	
Safety instructions	
General information	
Operation	5
Transport und Installation	
Heating	
Maintenance	
Intended use	
Useful information	
Transportation and storage	
Unpacking	
Unpacking	
Delivery scope	
Installation	
Moving the device	
Setting up	
Fixing the device to the wall	
Insert shalves	
Stacking the device	
Changing the door opening direction	
Operator panel and display	
Setting the temperature limit	
Commissioning	
Switch on	
Heating function	
Flap open function	
Counter and timer function	
Menu settings	
Menu structure Navigation in the menu	
Operating mode	
Alarm and key tone	
Factory reset	
Calibration and adjustment	
Interface and output	
USB interface	
USB device drivers	
Command syntax and format	
Commands	
Connections between device and external devices	
Maintenance and cleaning	
Cleaning	
Spare parts order	
Repair	
Error codes	
Accessories	
Technical data	
Warranty	10

EU Declaration of conformity

We declare under our sole responsibility that this product corresponds to the regulations 2006/42/EG, 2014/35/EU, 2014/30/EU and 2011/65/EU and conforms with the standards or other normative documents: EN 61010-1, EN 61010-2-010, EN 61326-1, EN 60529, EN ISO 12100 and DIN 12880.

A copy of the complete EU Declaration of Conformity can be requested at sales@ika.com.

Explication of warning symbols



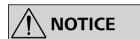
Indicates an (extreme) hazardous situation, which, if not avoided, will result in death, serious injury.



Indicates a hazardous situation, which, if not avoided, can result in death, serious injury.



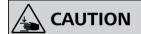
Indicates a potentially hazardous situation, which, if not avoided, can result in injury.



Indicates practices which, if not avoided, can result in equipment damage.



Indicates a hazardous situation that cause from a hot surface!



Indicates crushing risk to fingers/hand.

Safety instructions

General information:

- Read the operating instructions completely before starting up and follow the safety instructions.
- Keep the operating instructions in a place where they can be accessed by everyone.
- Ensure that only trained staff work with the device.
- Follow the safety instructions, guidelines, occupational health and safety and accident prevention regulations.
- Set up the device in a spacious area on an even, stable, clean, non-slip, dry and fireproof surface.
- Do not operate the instrument in explosive atmospheres, with hazardous substances or under water.
- Protect the device and accessories from bumping and impacting.
- The socket for the mains cord must be easily accessible.
- Socket must be earthed (protective ground contact).
- The voltage stated on the type plate must correspond to the mains voltage.
- The device can only be disconnected by pulling out the mains plug.
- Disconnected the mains plug before attaching or changing any accessories.
- Secure the device with the anti-tilt device to ensure the stability while loading and unloading shelves and during operation. Ensure sufficient fixation of anti-tilt bracket, in particular at stacked arrangement of device.



If the mains switch is not within reach when device is operating, an EMERGENCY STOP switch that can be easily accessed must be installed in the work area.

- Use the supplied anti tilt bracket.
- Fixation against the wall is compulsory!
- Disconnected the mains plug before cleaning, maintenance and transportation of the unit.



Coverings or parts that can be removed from the device without the aid of any tools must be put back on the device again to ensure safe operation, for example to keep foreign objects and liquids, etc. from getting into the device.

• The device may only be used as prescribed and as described in the operating instructions. This includes operation by instructed specialist personnel.



Please pay attention to the dangerous parts of the device in Fig. 2.

 This device is not intended for use in a potentially hazardous environment.



Process pathogenic materials only in closed vessels under a suitable fume hood. Please contact IKA application support if you have any question.

- A laboratory oven heats sample according to specified parameters. This involves hazards due to high temperatures, fire and general hazards. They remain subject to the judgment and responsibility of the operator. For this reason, it may become necessary for user to take other precautionary safety measures.
- In case of emergency, turn off the device and then disconnect the mains cable from the socket.

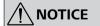


Beware of hazards due to:

- flammable materials
- combustible media with a low boiling temperature
- glass vessel breakage
- overfilling of media
- damaged or unsuitable vessels.
- Certain applications and materials may be hazardous. You should take precautions to prevent contact with, or inhalation of, toxic liquids, gases, fumes, vapors or powders.
- Risks may also be posed by biological or microbiological substances.
- Check the device and accessories for damage before each use. Do not use damaged components.
- Safe operation is only guaranteed with the accessories described in the "Accessories" section.
- Only use **IKA** approved accessories!
- Use only original **IKA** spare parts!
- The feet of the equipment must be clean and undamaged.



There is a risk of crush when opening or closing the door. Keep your hands away from squeezing edges.



Heavy loads can lead to tilting of the device. Observe loading recommendations for the shelves.

Never use the device for:

- heating food
- drying living beings
- heating room.

Operation:

• The device will automatically restart in mode B and C following any interruption to the power supply.



Do not start up the device if:

- It is damaged
- Cable is damaged.

The temperature limit must be adjusted so that the maximum permissible temperature cannot be exceeded even in the event of a fault. Check the temperature limit on a regular basis (see section "Temperature limit").

- Secure power cable avoid kinks.
- Check power cables at regular intervals for possible material fatigue.
- Mains cable should not get in contact with hot parts.

Transport and Installation:

• Beware of the high dead weight of the device when transporting.



Ensure that your fingers do not get crushed when setting down the device.

 Insufficient ventilation may result in the formation of explosive mixtures. Only use the device in well ventilated areas.

Heating:



The area around the air outlet nozzel can get very hot at high operating temperatures.

- Risk of burning caused by vapour or hot surfaces. Pay attention to the residual heat after switching off.
- Only process and heat up any media that has a flash point higher than the adjusted temperature limit that has been set (see section "Technical data"). The safe temperature limit must always be set to at least 25 °C lower than the flash point of the media used.

Maintenance:

 The device must only be opened by trained specialists, even during repair. The device must be unplugged from the power supply before opening. Live parts inside the device may still be live for some time after unplugging from the power supply.

Intended use

Use:

The IKA Oven 125 basic dry / IKA Oven 125 basic dry

- **glass** is a drying oven for a wide range of heating, drying and heating application.

The device may only be used for heating up non-explosive substances and objects. Do not process substances or objects that might cause explosive vapor.

Range of use:

Indoor environments similar to that a laboratory of research, teaching, trade or industry.

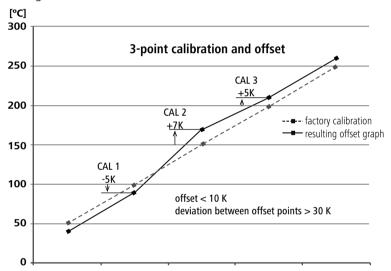
The safety of you cannot be guaranteed:

- If the device is operated with accessories that are not supplied or recommended by **IKA**.
- If the device is operated improperly or in contrary to the **IKA** specifications.
- If the device or the printed circuit board are modified by third parties.

Useful information

Calibration and adjustment:

This menu shows how offset values can be entered after the respective temperatures are approached and with an external measuring device cross-checked (calibrated).



Individual load and ambient condition might influent the temperature behaviour of the chamber. To compensate that influence there's the option to neutralize by using the 3-point calibration and offset function. This function allows the temperature to be calibrated and adjusted at three different temperature values.

Use a calibrated reference measuring device in case of adjustment.

The operation can be done at a single, or up to three temperature levels:

CAL 1: Temperature calibration and adjustment at low value of temperature.

CAL 2: Temperature calibration and adjustment at medium value of temperature.

CAL 3: Temperature calibration and adjustment at high value of temperature.

Transportation and storage



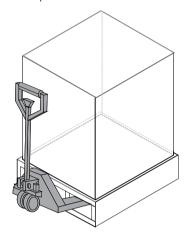
Transport the device only by qualified persons with suitable handling facilities, such as pallet truck and fork truck!

The device must be protected against mechanical impact, vibrations, dust deposits and corrosive ambient air during transportation and storage. It is also important to ensure that the relative humidity does not exceed 80 %.

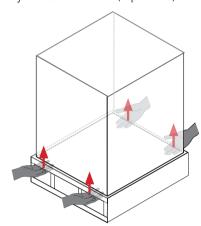
The device must be completely emptied before transportation and storage.

The device can be transported:

- with pallet truck.



- by hands / unaided (4 persons).



Unpacking

Unpacking:

- Please unpack the device carefully.
- In the case of any damage a detailed report must be sent immediately (post, rail or forwarder).

Delivery scope:

- IKA Oven 125 basic dry or IKA Oven 125 basic dry glass
- 2 shelves
- Screwdriver (for adjustment of temperature limit)
- Tilt protection
- Mains cable
- USB cable
- User guide
- Calibrating certification
- Warranty card

Installation

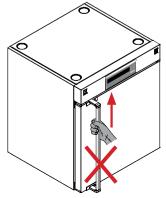
Moving the device:

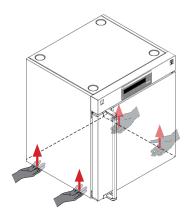


When transporting the device do not use the door handle. This may damage the device.

The device can be moved:

- with optional accessory (roll stand).
- on a pallet (transport straps).
- by hands (4 persons at least).





Setting up:



Fixation against the wall is compulsory!

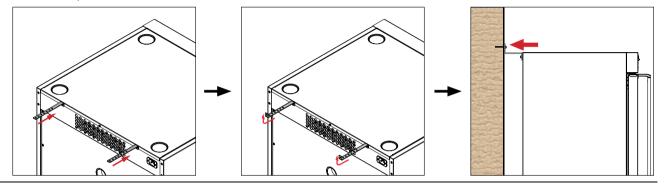
- Place the device on and even, clean, dry and fireproof surface in well-ventilated environment.
- Keep sufficient distance to radiators and other heat sources.
- Keep at least 150 mm between walls and the device.

Fixing the device to the wall:



The screws used for fixing is selected according to the wall conditions and is not included.

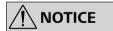
As indicated in following figures, attach the device to a wall with the tilt protections included with the device. Fasten the tilt protections to the rear side of the device.



Inserting the shelves:



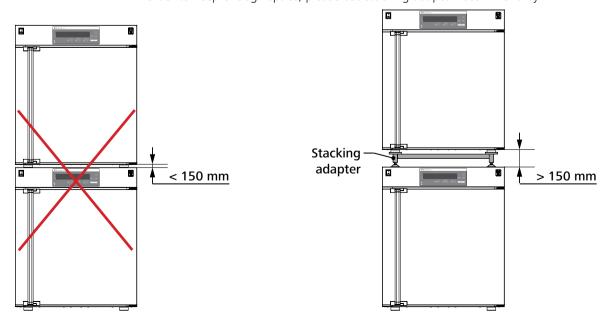
Stacking the device:



Never stack more than two devices.

When stacking the device, four persons are required to lift it.

In order to keep enough space, please use stacking adapter recommend by IKA.

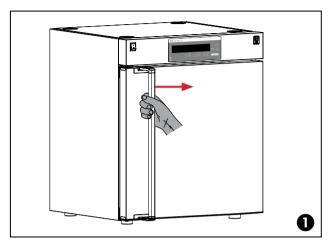


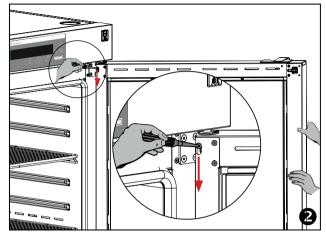
Changing the door opening direction:

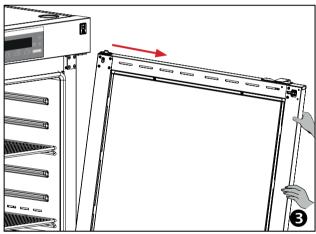


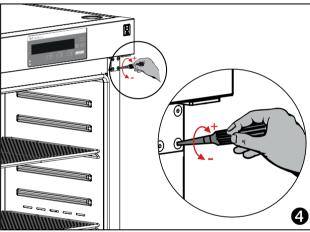
When changing the door opening direction, two persons are required due to the heavy (about 15 kg) of the door.

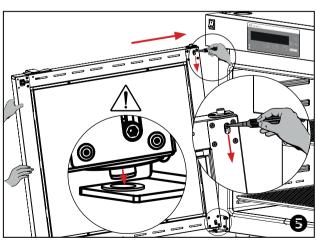
- Open the door.
- 2 Hold the door and loosen the hinge pin with a suitable tool.
- **3** Remove the door carefully.
- Alternate the position of the keepers and hinges with 4 mm hexagonal wrench.
- Reverse and assemble the door. Make sure that the pin is in the correct position during assembling the door.

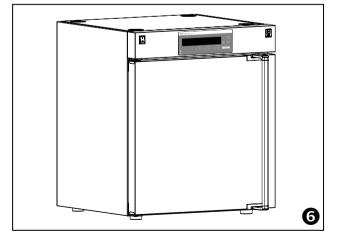




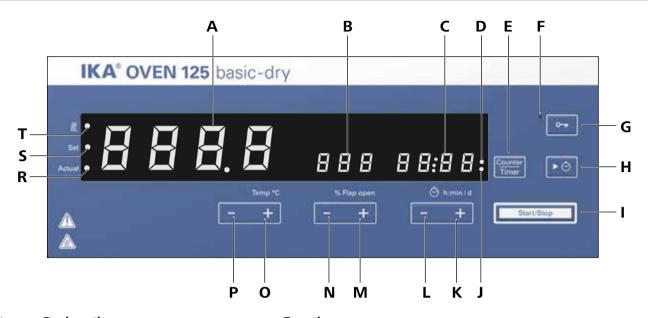








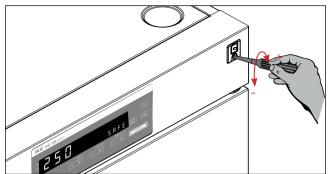
Operator panel and display



<u>ltem</u>	<u>Designation</u> <u>Function</u>			
Α	LED display (temperature):	Display the temperature.		
В	LED display (flap):	Display the air flap opening percentage of the venting.		
C	LED display (Timer/Counter):	Display the timer/counter value.		
D	LED indicator (Counter):	Indicate the counter function is activated.		
E	"Counter/Timer" key:	Switch between counter and timer function.		
F	LED indicator (lock):	Indicates that the function of keys is deactivated.		
G	Lock Key:	Lock/unlock keys.		
Н	Timer key:	Start the timer function.		
I	"Start/Stop" key (heating):	Start/Stop the heating function.		
J	LED indicator (Timer):	Indicate the timer function is activated.		
K	"Timer (+)" key:	Increase the timer setting value.		
		Navigation, selecting the settings in the menu.		
L	"Timer (-)" key:	Decrease the timer setting value.		
		Navigation, selecting the settings in the menu.		
M	"Flap open (+)" key:	Open the flap vent in 10 % increments.		
N	"Flap open (-)" key:	Close the flap vent in 10 % increments.		
0	"Temp (+)" key:	Increase the temperature setting value.		
		Change the setting in the menu.		
Р	"Temp (-)" key:	Decrease the temperature setting value.		
		Change the setting in the menu.		
R	LED indicator (Actual):	The LED lights up at the same time as the actual value is displayed.		
S	LED indicator (Set):	The LED lights up at the same time as the set value is displayed.		
Т	LED indicator (heating):	Indicate the heating function is activated.		

Setting the temperature limit

Adjust the temperature limit (increase the value by clockwise / decrease the value by counterclockwise) with screwdriver delivered with the device.



The temperature limit setting will appear on the display.



Temperature limit

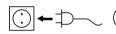
Factory setting: approximate max. value Adjustment range: see "Technical data".



The safe temperature limit must always be set to at least 25 °C lower than the flash point of the media used.

Commissioning

Check whether the voltage specified on the type plate matches the mains voltage available.



The power socket used must be earthed (protective earthing).

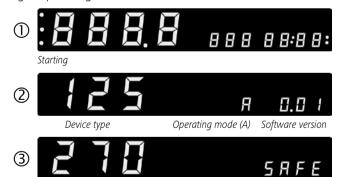
If above conditions are met, the device is ready for operation after plugging in the mains plug.

If these conditions are not met, safe operation is not guaranteed and the device could be damaged.

Observe the ambient conditions (temperature, humidity, etc.) listed under "Technical data".

Switch on:

After switching on the mains switch (1), all LED segments light up during the self test.



Temperature limit

After that, following two screens appear alternatively.



Room temperature

Then the device enters standby status and is ready for operation.

Heating function:

The heating function can be started or stopped by pressing the "Start/Stop" key (I).

When the heating function is activated by pressing the "Start/ Stop" key (I), the heating indicator (T) lights up.

Then, the target temperature and the actual temperature appears on display (A) alternately. Accordingly, setting value indicator (S) or actual value indicator (R) lights up alternately. The heating temperature can be adjusted by pressing the "Temp (+)" key (O) or "Temp (-)" key (P).

By pressing the "Temp (+)" key (O) or "Temp (-)" key (P), the temperature increase or decrease in 0.1 °C steps.

For changing the temperature more quickly, Keep pressing on "Temp (+)" key (O) or "Temp (-)" key (P).

The value could be changed in standby or operation process.

Flap open function:

Change the position of the flap by pressing the falp open +/- keys (in 10 % increments).

Counter and timer function:

Counter function:

When the heating function is started by pressing "Start/ Stop" key (I), the counter will start automatically and counter indicator (D) lights up. The counter value shows on display (C).

When the operating time is less than 1 day (24 hours), the counter work with hour/minute (hh:mm) mode.

When the operating time is more than 1 day (24 hours), the display switches from hour/minute mode to day mode. In the day mode, the display show the day and hour/minute (hh:mm) alternatively.

When the heating function is stop by pressing "Start/Stop" key (I), the counter value appear on display (C).

When the heating function is started again, the counter will re-start from 00:00.

Note: The maximum counter value is 100 days (d: 99/23:59). During counter mode, the "Timer" key is invalid.

Switching between "Counter" and "Timer" function:

The "Counter" function could be switch to "Timer" function by pressing the "Counter/Timer" key (E)". The timer indicator (J) lights up to indicate the "Timer" function is activated. Press the "Counter/Timer" key (E) again, the "Counter" function will be activated and counter indicator (D) lights up.

Timer function:

The "Timer" can be adjusted by pressing "Timer (+)" key (K) or "Time (-)" key (L).

During operating, the "Timer" start increase with hour/minute (hh:mm) mode.

When the timer value reach 24 hours, the display switch to day mode. The display show the day and hour/minute (hh:mm) alternatively.

For changing the timer more quickly, Keep pressing on "Timer (+)" key (K) or "Timer (-)" key (L).

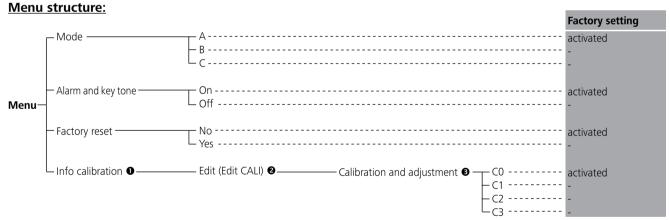
After setting, the timer can be started by pressing "Timer" key (H). The heating function stops automatically once this time has expired. The display (C) blinks "00:00" until you press any key.

Note: The maximum timer value is 100 days (d: 99/23:59). The timer value could be changed in standby or operation process. When timer function is activated, starting or closing the heating function by pressing "Start/Stop" key (I) doesn't influence of the timer function.

Locking the control elements:

The control elements of the device allow to be locked by pressing the lock key (G) about 2 seconds, so no accidental changes during operation are possible (LED (F) lights up). By pressing the lock key (G) about 2 seconds again, the control elements are released (LED (F) no longer lights up).

Menu settings



0 Info calibration:

In this menu, the current offset values can be viewed.

2 Edit calibration:

In this menu, the offset values can be entered directly.

3 Calibration and adjustment:

This menu shows how offset values can be entered after the respective temperatures are approached and with an external measuring device cross-checked (calibrated).

Navigation in the menu:

- Enter/leave the menu by pressing "Counter/Timer" key (E) and "Timer" key (H).
- Press the "Timer (+)" key (K) or "Timer (-)" key (L) to switch the menu options.
- Change the menu setting by pressing "Temp (+)" key (O) or "Temp (-)" key (P).
- Save the setting by pressing the "Start/Stop" key (I).

Operating mode:



Mode A: The device doesn't restart again after power on/ power failure. The setting of heating temperature is adjustable.



Mode B: The device restart again after power on/power failure. The setting of heating temperature is adjustable.



Mode C: The device restart again after power on/power failure. The setting of heating temperature is not adjustable.

Alarm and key tone:



Beep on: alarm and key tone is activated.



Beep off: no alarm and key tone.

Factory reset:



Reset.

Calibration and adjustment:

The device is calibrated and adjusted in the factory. Individual sample loading and ambient condition might influent the temperature behaviour of the chamber. You can select and make 1-point, 2-point or 3-point calibration and adjustment as necessary.

By using 3-point calibration to compensate that influence, the device can get the optimal result. This function allows the temperature to be calibrated and adjusted to three different temperature values.

When calibration, locate a calibrated reference measuring sensor at the center of the cabinet.

<u>Calibration information:</u>

In this menu option, you can review the calibration information in the device:



Enter the calibration information by pressing "Start/Stop" kev (I) and following screens appear:



If the device is selected 3-point calibration, following calibration information screen will appear:



By pressing "Timer (+)" key (K) or "Timer (-)" key (L), you can switch between following three screens and review relate calibration information:



Back to calibration information screen by pressing "Start/ Stop" key (I).

Edit calibration parameters:

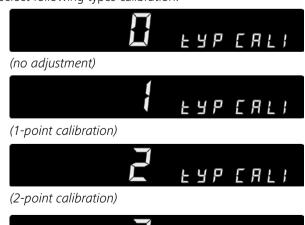
In this menu option, you can edit the calibration parameter in the device:



Confirm to edit the setting values by pressing "Start/Stop" key (I) and following screen appear:



By pressing "Temp (+)" key (O) or "Temp (-)" key (P), you can select following types calibration:



(3-point calibration)

LYP [ALI

Confirm the selected calibration type by pressing "Start/ Stop" key (I).

Switch to the first point calibration screen by pressing "Timer (+)" key (K).



Set the calibration temperature value by pressing "Temp (+)" key (O) or "Temp (-)" key (P).



Switch to reference temperature screen by pressing "Timer (+)" key (K).



Change the reference temperature value by pressing "Temp (+)" key (O) or "Temp (-)" key (P).



Confirm the setting by pressing "Start/Stop" key (I). Switch to the other points setting by pressing "Timer (+)" key (K).

The other points parameter can be set in the same way. Back to edit calibration screen by pressing "Start/Stop" key (I) again after confirming the settings.

Calibrate the device:

In this menu option, you can calibrate the device. Before starting the calibration, locate a reference measuring temperature sensor at the centre of the cabinet.

Example: 2-point calibration:

Switch to calibration screen by pressing "Temp (+)" key (O) or "Temp (-)" key (P):



Confirm to calibrate the device by pressing "Start/Stop" key (I) and following screen appear:



Select 2-point calibration by pressing "Temp (+)" key (O). Following screen appear:



Switch to the first point calibration screen by pressing "Timer (+)" key (K).



Set the first point temperature (e.g. 100 °C) by pressing "Temp (+)" key (O) or "Temp (-)" key (P).



Confirm the setting by pressing "Start/Stop" key (I). The device start to heat. The set temperature value changes to the right side of the screen and actual temperature appears on the left side of the screen:



Wait about 1–2 hours until temperature is stable (e.g. reach about 98.8 °C) and "Set" LED (S) no longer flashes and the following screen appear:



Input the calibration value from the reference measuring device (e.g. 98.6 °C) with "Temp (+)" key (O) or "Temp (-)" key (P):



Confirm the value by pressing "Start/Stop" key (I). Then, following screen appear:



Press "Start/Stop" key (I) again to finish the first point calibration.

The other point calibration can be performed in the same way.

Interface and output

The device can be connected to a PC and operated with the laboratory software labworldsoft® through USB interface (5).

Note: Please observe the system requirements as well as the operating instruction and help section of the software.

USB interface:

The Universal Serial Bus (USB) is a serial bus for connecting the device to the PC. Equipped with USB devices can be connected to a PC during operation (hot plugging). Connected devices and their properties are automatically recognized. Use the USB interface in conjunction with labworldsoft® for operation in "Remote" mode and also to update the firmware.

USB device drivers:

First, download the latest driver for **IKA** devices with USB interface from:

http://www.ika.com/ika/lws/download/usb-driver.zip.
Install the driver by running the setup file. Then connect the

IKA device through the USB data cable to the PC. The data communication is via a virtual COM port.

Command syntax and format:

The following applies to the command set:

- Commands are generally sent from the computer (Master) to the device (Slave).
- The device sends only at the computer's request. Even fault indications cannot be sent spontaneously from the device to the computer (automation system).
- Commands are transmitted in capital letters.
- Commands and parameters including successive parameters are separated by at least one space (Code: hex 0x20).
- Each individual command (incl. parameters and data) and each response are terminated with Blank CR LF (Code: hex 0x20 hex 0x0d hex 0x20 hex 0x0A) and have a maximum length of 80 characters.
- The decimal separator in a number is a dot (Code: hex 0x2E).

The above details correspond as far as possible to the recommendations of the NAMUR working party (NAMUR recommendations for the design of electrical plug connections for analogue and digital signal transmission on individual items of laboratory control equipment, rev. 1.1).

The NAMUR commands and the additional specific **IKA** commands serve only as low level commands for communication between the device and the PC. With a suitable terminal or communications programme these commands can be transmitted directly to the device. The **IKA** software package, Labworldsoft®, provides a convenient tool for controlling the device and collecting data under MS Windows, and includes graphical entry features, for motor speed ramps for example.

Commands	Function		
IN_PV_2	Read the internal actual temperature		
IN_SP_2	Read the internal setting temperature		
IN_SP_3	Read the safety setting temperature		
IN_SP_4	Read the flap setting		
OUT_SP_2 X	Set the internal setting temperature, $X = 0$ to 250		
OUT_SP_12@n	Setting WD safety limit temperature with set value echo		
OUT_SP_4 X	Set the flap setting, $X = 0$ to 100		
OUT_WD1@m	Watchdog mode 1: if event WD1 should occur, the heating functions are switched off and PC1 is displayed. Set watchdog time to m (20 - 1,500) seconds, with watchdog time echo. This command launches the watchdog function and must be transmitted within the set watchdog time.		
OUT_WD2@m	Watchdog mode 2: if event WD2 should occur, the temperature target value is changed to the WD safety temperature limit value. The warning PC2 is displayed. The WD2 event can be reset with OUT_WD2@0 - this also stops the watchdog function. Set watchdog time to m (20 - 1,500) seconds, with watchdog time echo. This command launches the watchdog function and must be transmitted within the set watchdog time.		
START_2	Start the heating function		
STOP_2	Stop the heating function		
RESET	Switches off the device function		

Note: when disconnecting the USB cable while the device is running, the device stays in PC mode. To reset to function without PC, switch the device off and on again.

"Watchdog" function, monitoring the serial data flow:

The following applies to situations where the watchdog function is enabled (see Namur instructions). If no new transmissions of these commands from the PC take place within the preset watchdog time, the heating function will be shutdown according to the watchdog mode selected or will be controlled using the preset setpoints. An operating system crash, a PC power failure or a fault in the connecting cable to the device can cause an interruption in data transmission.

<u>"Watchdog" – Mode 1</u>

If an interruption in data transmission occurs which is longer than the preset watchdog time, the heating function will be shutdown and the error message PC 1 will be displayed.

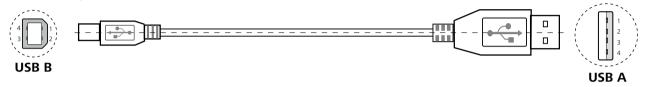
"Watchdog" - Mode 2

If an interruption in data transmission occurs which is longer than the preset watchdog time, the temperature setpoint will be set to the WD safety temperature setpoint. The PC 2 warning message will be displayed.

Connections between device and external devices:

USB 2.0 cable A - B:

This cable is required to connect USB interface to a PC.

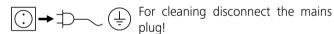


Maintenance and cleaning

The device is maintenance-free. It is only subject to the natural wear and tear of components and their statistical failure rate.

Cleaning:

alcohol.



Use only cleaning agents which have been approved by **IKA** to clean **IKA** devices: Water containing surfactant / isopropyl

- Wear protective gloves while cleaning the device.
- Electrical devices may not be placed in the cleansing agent for the purpose of cleaning.
- Do not allow moisture to get into the device when cleaning.
- If a different cleaning or decontamination method than the method defined by **IKA** is planned, you must ascertain with **IKA** that this method does not damage the device.

Spare parts order:

When ordering spare parts, please give:

- Machine type.
- Serial number, see type plate.
- Item and designation of the spare part, see **www.ika.com**, spare parts diagram and list.

Repair:

Please send the device for repair only after it has been cleaned and is free from any materials which may constitute a health hazard.

For repair, please request the "Decontamination Certificate" from **IKA**, or download printout of it from the **IKA** website **www.ika.com**.

If you require servicing, return the device in its original packaging. Storage packaging is not sufficient. Please also use suitable transport packaging.

Error codes

Any malfunctions during operation will be identified by an error message on the display.

Proceed as follows in such cases:

- Switch off device using the main switch at front of the device.
- Carry out corrective measures.
- Restart device.

Error code	Cause	Effect	Solution
Er 03	Temperature inside device (PCB power) too high	Heating off	- Switch off device and allow it to cool down.
Er 06	Set temperature limit exceeded	Heating off	- Contact IKA service department.
Er 21	Safety relay does not open	Heating off	- Contact IKA service department.
Er 25	Heater1 error	Heating off	- Contact IKA service department.
Er 26	Heater2 error	Heating off	- Contact IKA service department.
Er 27	No internal sensor	Heating off	- Contact IKA service department.

If the actions described fails to resolve the fault or another error code is displayed then take one of the following steps:

- Contact the service department
- Send the device for repair, including a short description of the fault.

Accessories

USB 2.0 cable A - B

Labworldsoft®

See more accessories on www.ika.com.

Technical data

		IKA Oven 125 basic dry	IKA Oven 125 basic dry - glass		
Operating voltage	VAC	230 ± 10 %			
		115 ± 10 %			
		100 ± 10 %			
Frequency	Hz	50 / 60			
Max. input power	W	2450 (230 V)			
			(115 V)		
Heating power	w	1200 (100 V) 2400 (230 V)			
Heating power	VV	2400 (230 V) 1500 (115 V)			
		1150 (100 V)			
Heating temperature range	°C	RT + 5 + 250			
Temperature limit	°C	+ 50 + 270			
Resolution of temperature adjusting	olution of temperature adjusting K 0.1		.1		
Temperature stability (at 150 °C)	K	± 0.5 (center, standard door) *			
Temperauture display		LED			
Timer / countuer function		Yes			
Timer / countuer display		LED			
Max. timer / counter		100 days (d: 99/23:59 [hh:mm])			
Max. number of tray		6			
Max. load for one tray	kg	30			
Interface		USB			
Permissible ambient temperature	°C	+ 5 + 40			
Permitted ambient humidity	%	80			
Permitted on-time	%	100			
Protection class according to EN 60529		IP 20			
Protection class		I			
Overvoltage category		II			
Contamination level		2			
Dimensions (W x D x H)	mm	700 x 650 (+ 75 with hand grip) x 825			
Inside dimensions (W x H x D)	dimensions (W x H x D) mm 550 x 525 x 450		25 x 450		
Internal volume	ı	125			
Weight	kg	74 81			
Operation at a terrestrial altitude	m	max. 2000			

Note: Complies to EN61000-3-11 subject to conditional connection: $Zmax = 0.362 \ \Omega$. If necessary, consult your electricity supplier.

Subject to technical changes!

^{*} Further data on request.

Warranty

In accordance with **IKA** warranty conditions, the warranty period is 24 months. For claims under the warranty please contact your local dealer. You may also send the machine direct to our factory, enclosing the delivery invoice and giving reasons for the claim. You will be liable for freight costs.

The warranty does not cover worn out parts, nor does it apply to faults resulting from improper use, insufficient care or maintenance not carried out in accordance with the instructions in this operating manual.

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designed for scientists

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