

InfraTouch I AF



GB Operating instruction

Made in Germany



IPX4

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General information on sauna baths

Dear customer,

With this sauna control unit you have purchased a high-quality electronic unit that was designed and manufactured according to the latest standards and quality guidelines.

Please keep in mind that an ideal interaction of sauna cabin, sauna heater and sauna control unit is essential for a comfortable typical sauna climate in your cabin.

With this high-quality sauna control unit you “operate” your sauna system and the many individual programming options will help you to quickly find the settings that provide the greatest comfort for you.

The sensation in the sauna is subjective; therefore it requires your own sensation or that of your family to find the individual settings for you.

The temperature for the Finnish operation is preset to 95 °C. The settings for the humidity operation are 60 °C and 50% humidity.

The following operating instructions describe how you can preselect “your climate” in the cabin. Carefully read these instructions so that you can quickly and easily do the programming yourself.

For sauna baths you have to keep in mind that the temperatures vary in the cabin. It is hottest under the cabin ceiling whereas the temperature is substantially lower towards the floor. The opposite is true for the relative humidity, which is lowest under the cabin ceiling and highest towards the floor of the cabin.

For safety reasons the temperature sensor along with the over-temperature protection is located in the area above the heater at the cabin ceiling since this is typically the hottest zone in the cabin.

Thus there will always be temperature fluctuations from the temperature sensor of the control unit to your display thermometer in the cabin.

For example, with a preselected temperature of 100 °C the value shown on your display thermometer may show a value of 85 °C – 90 °C. This would then also correspond to the typical climate data in the cabinet.

Always ensure hygienic conditions. Always place a towel or bath towel underneath you so that the sweat does not drip onto the wood.

In order to protect your cabin from possible damages due to the humidity operation we recommend reheating or a final drying process after each humidity bath.


In badly ventilated rooms a fan may be used additionally to remove the used up humid air.

If possible, avoid using the fan during the sauna baths to avoid drafts in the cabin. It should only be used when recommended by the cabin manufacturer.



Always make sure that there are no objects on the sauna unit before the heating process begins. Risk of fire!

General Safety Regulations

- This unit is not intended for use by people (including children) with limited physical, sensory or mental abilities or with no experience and/or insufficient knowledge unless they are supervised by an authorized person or were given instructions on how to use the unit.
- Children should be supervised to make sure that they will not play with the unit.
-  Caution! Danger of life: Never perform repair work and installations yourself. The housing cover may only be removed by a specialist.
- The system must be unplugged from the network before repair work or installations are performed, e.g. disconnect fuses or master switch.



Caution!

Dear customer,

In compliance with the valid regulations, the electrical connection of the sauna heater as well as the sauna control may only be performed by a certified electrician.

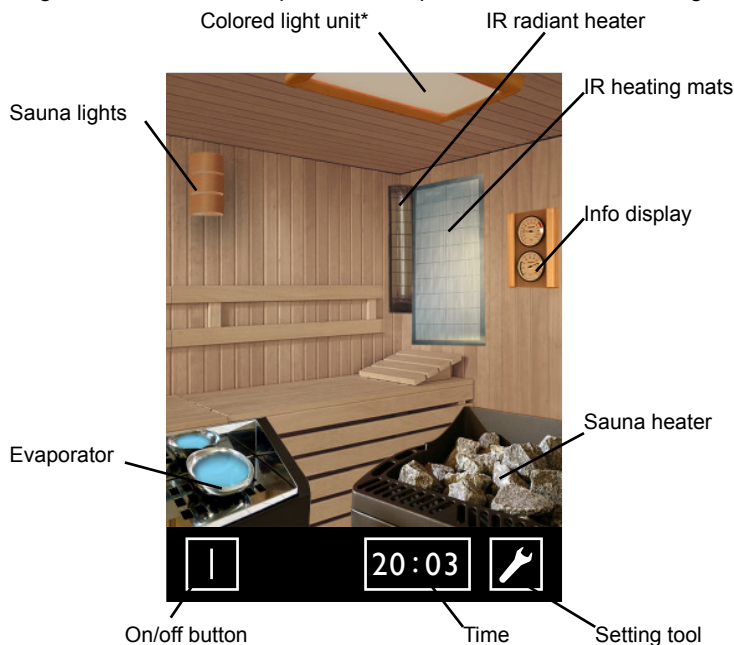
Therefore we would like to remind you here that you must provide a copy of the invoice for the electrical company carrying out the work in case of a warranty claim.

Stand-by

The installer of your sauna, IR cabin has configured the control unit individually according to the installed components.

The individual components of your cabin are shown on the display in the stand-by mode.

The following illustration shows all possible components and their meaning.



If all of the installed components in your cabin cannot be seen on the screen, please contact your sauna system installer.



Operation of the unit is intuitive and largely self-explanatory. On the following pages, we will explain the functions and settings to you individually. Please read these instructions carefully before using the unit.

To operate, touch the respective component with the touch-pen included in the delivery.



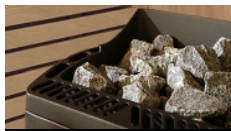
Please do not use any metallic, pointed objects or writing implements as this can lead to dirt, damages or destruction of the display.

Any dirt should be removed with a moist cloth. Do not use chemical detergents or diluted cleaning fluids.

The individual components are shown in different ways depending on whether they are active, inactive or switched on.

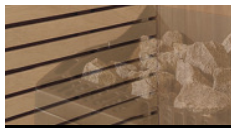
- ACTIVE

clearly visible



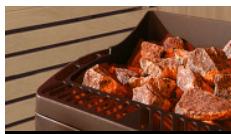
- INACTIVE

transparently visible



- SWITCHED ON

shown in color



The operating modes

Finnish operation is a purely hot-air bath

The adjustable temperature range is
70-110°C (factory setting 95°C)



or



Climate mode

is a steam bath

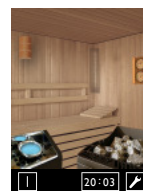
The adjustable temperature range is
30-70°C (factory setting 60°C)

The moisture intensity can be set between 0 and 100%. (factory setting 50%)

The value is a time unit value and not the relative air humidity.



or



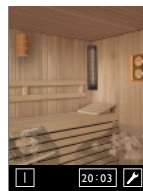
IR operation

is infrared radiation

The adjustable temperature range is
30-80°C (factory setting 65°C)






or



It is not possible to activate the sauna mode (Finnish/climate mode) and IR operation at the same time.

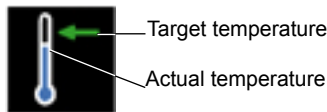
Change the general settings

The following generally applies to changing the settings:

- Select the desired setting.
- Touch the corresponding symbol. The changed value turns to red or is shown with a red border.
- Touch the green tick  to accept the new value. The new value is saved and shown in green or with a green border.
- In order to return to the start image, either touch the image at the top right  or touch the arrow .
- If you do not make any entries for approximately 15 seconds, the unit automatically returns to the start without saving any changes made.

Displaying the target - actual temperature

If requested during operation by touching the  symbol, a thermometer shows the target temperature (green arrow) and the actual temperature (filling),



Switch-on and setting options

Finnish operation


Activate

Touch the heater symbol with the touch-pen

Only the heater is clearly illustrated on the display, IR components and the vaporizer are shown transparent. If the vaporiser is active, it must be deactivated by touching it with touch-pen.

Switching on



Touch the on/off symbol  for approximately 3 seconds. The heater and the sauna light switch on.

The sauna stones are shown in red on the display and the sauna light is shown as switched on.



approx. 3 seconds



Switching off

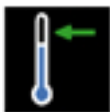


Touch the on/off symbol . The heater is switched off.


The sauna light is not automatically switched off.



Set temperature



Select by:

- Touch the heater symbol for approx. 3 seconds.
- Select help from the menu. 

The setting can be made when switched off or switched on.




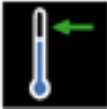
70 - 110° C



Request

By touching  you can make a

remaining heating time 

and the target-actual temperatures 
request.

Climate mode


Activate

Touch the vaporizer symbol with the touch pen

The heater and the vaporiser clearly illustrated on the display. IR components are shown transparently.

Switching on



Touch the on/off symbol  for approximately 3 seconds. The heater, vaporizer and the sauna light switch on. The sauna stones are shown in red on the display, the vaporizer is working and the sauna light is shown as switched on.




approx. 3 seconds




Switching off

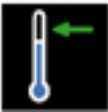


Touch the on/off symbol  The vaporizer is switched off and the reheating process is switched on..
The sauna light isnot automatically switched off.




Reheating time means that the cabin, for drying out, is heated to the reheat temperature (factory set to 20 minutes) for the set period (factory set at 95°C). On the display, the remaining reheating time is shown in flashing red digits. Once the reheating time is expired the sauna heater is turned off as well. By touching the button  twice you will abort the preheating.

Set temperature





Select by:

- Touch the heater symbol for approx. 3 seconds.
- Select help  from the menu.




The setting can be made when switched off or switched on.

 /  30 - 70° C 

Set humidity intensity






Select by:

- Touch the vaporizer symbol for approx. 3 seconds.
- Select help  from the menu.

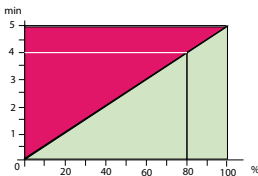


The setting can be made when switched off or switched on.

 /  0 - 100 % 

The set value is a time unit value.

(e.g. 80% = 80% = switch-on period = vaporizer on for 4 minutes - off for 1 minute



Request

By touching  you can make a

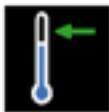


humidity intensity setting

remaining heating time



and the target-actual temperatures request.



IR operation

Two different radiation sources can be installed here.

IR heater, shown by the symbol



or IR heating foil, shown by the symbol



The operation of both sources of radiation is the same, which is why we are showing the operation of both using the IR heating foil as an example.


Activate

Touch the IR heater foil symbol with the touch-pen

The heating foil is clearly illustrated on the display. The vaporizer and heater are shown transparently.

Switching on



Touch the on/off symbol  for approximately 3 seconds. The IR heating foil and the sauna light switch on. The IR heating foil is shown with a red aura on the display.




approx. 3 seconds



Switching off




Touch the on/off symbol . The IR heating foil is switched off.
The sauna light is not automatically switched off.



Set temperature



Select by:

- Touch the IR heater foil symbol for approx. 3 seconds.
- Select help  from the menu.

The setting can be made when switched off or switched on.



30 - 80°C



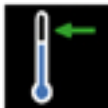
Request

By touching  you can make a

remaining heating time



and the target-actual temperatures
request.




The following applies to all operating modes

A person appears on the display if 90% of the set temperature is achieved in the cabin or at 80°C at the latest.



You can change between a male or female person by touching the person symbol.

Cabinet lighting

The cabinet lighting can be switched on and off at any time by briefly touching the lamp symbol .


The cabinet lighting is switched on each time the sauna is switched on, in whichever mode.

If the sauna is switched off, the lighting automatically goes off after a delay of approximately 30 minutes.

Dim the cabinet lighting

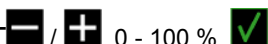


Select by:

- Touch the light symbol for approx. 3 seconds.
- Select help from the menu. 




The setting can be made when switched off or switched on.





Other setting options

By touching the button  you will get to two further setting options and to the Help Menu.



Preselected time

With time preselect you may preselect the start of your sauna unit within 24 hours.




Always make sure that there are no objects on the sauna unit before the heating process begins. Risk of fire!



00:00 - 23.55 h  in 5 minute intervals.

The unit switches to standby mode after ca. 15 seconds. The selected time is activated and can be recognized by the green blinking starting time. As soon as the starting time has been reached the unit automatically starts.

Please remember however that the cabin must heat up in the sauna operation for approx. 40-50 minutes in order to achieve a pleasant climate in the cabin. For example, if you want to start your sauna bath at 6 pm, select 5:10 pm as preselected time.


If you wish to deactivate the preselect time, touch the button  for ca. 3 seconds until the green blinking starting time extinguishes.



Heating time limitation


The sauna unit automatically turns off once this time has expired.



00:30 - 6:00 

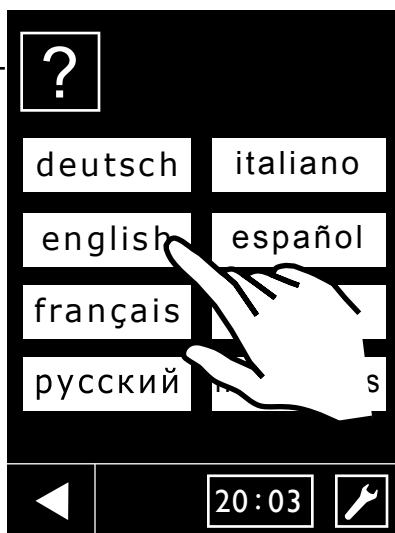
The following setting is only possible if the unit is configured for commercial use.



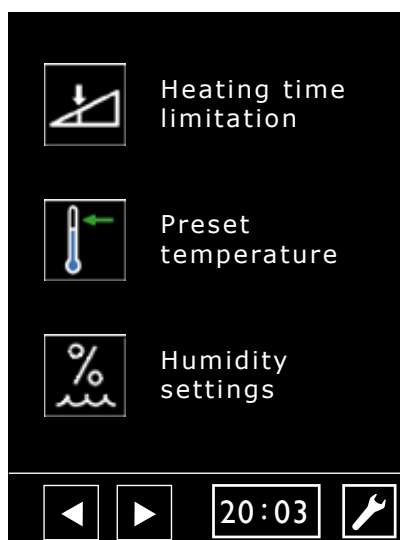
00:30 - 12:00 

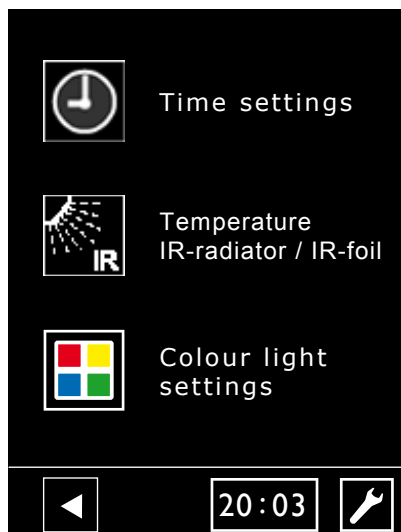
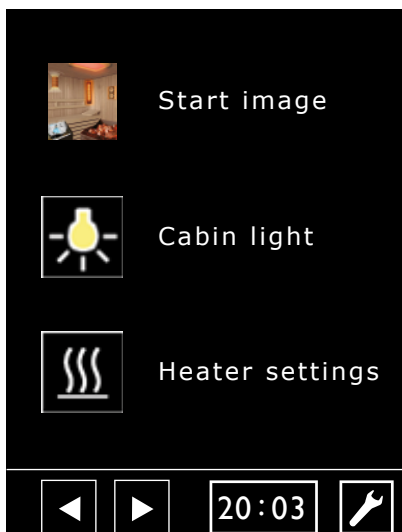
The Help-Menu

First, select the desired language.




All relevant parameters are shown and their functions described briefly. By touching the respective symbols you will go directly to the desired setting option. With ◀ and ▶, you can select the desired menu page.





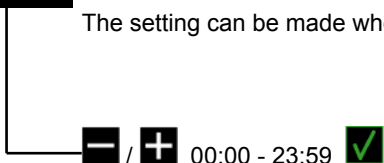
Time

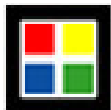
Select by:

- Touch the time display for approximately 3 seconds.
- Select help from the menu. 



The setting can be made when switched off or switched on.





Colored light mode


can only be selected optionally with an integrated colored light module (art. no 94.2761).

When switching the sauna system on and off, in whichever mode, the colored light is also switched on and off.

In addition, the coloured light can be switched on or off independently of the rest of the sauna system, by touching the coloured light module.

Settings


Select by:

- Touching the colored light on the display for more than 3 seconds.
- Select help  from the menu.




Alternating color

red - yellow - green - blue

Color duration may be set in .



1 - 10 min 



Red continuous light



Yellow continuous light



Green continuous light




Blue continuous light


The operator menu

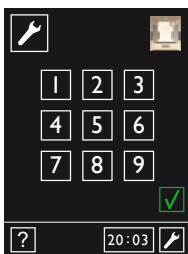
Basic parameters are set in the operator - menu which are rarely changed afterwards. The settings made here should be well-considered.


In order to protect these settings against incorrect or unintentional changes, this menu is protected with a CODE number.

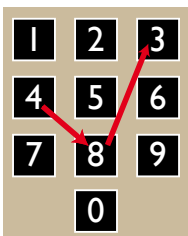
Call up the operator – menu

Now touch the  symbol at the bottom right for approx. 3 seconds, and a numerical key block appears.

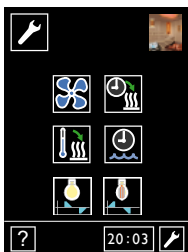
 > 3 seconds



Enter the numbers **483** and confirm the entry with .





The unit changes to the operator - menu



You have the following setting options here:

Fans

Select by:

- Select from the operator menu .
- Select help  from the menu.



Fan off

1

1/3 power

2



2/3 power

3

Full power

Refilling the water shortage

Select by:

- Select from the operator menu .
- Select help  from the menu.






When your heater reports water shortage (error report "E510") you will have the time preset here (for safety reasons maximum 5 minutes) to refill the water.

Be careful. The unit parts may be hot and heavy steam may occur. **!!!Danger of scalding!!!**

When the water shortage alarm lasts longer than the set period your control unit turns off the entire sauna unit.

The following error message will appear on the display: "E511".

Read Chapter Error Messages to find out how you can restart your unit.



 /  0:00 - 5:00 min 

Reheating




After turning off the humidity operation the heater operates to the “reheating temperature” for the duration of the “reheating time” for the final drying time.

Reheating temperature

Select by:



- Select from the operator menu .
- Select help  from the menu.




 /  70 - 110° C 

Reheating time

Select by:

- Select from the operator menu .
- Select help  from the menu.



 /  00:00 - 2:00 h 

Dimming with phase cutting control



Select this option if your sauna light is operated with bulbs or halogen lamps.


Dimming with phase section control



Select this option if your sauna light is operated with energy-saving bulbs.

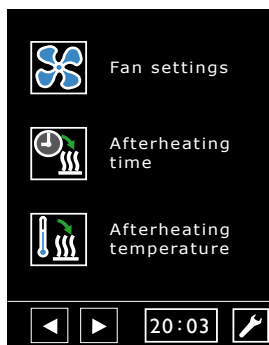
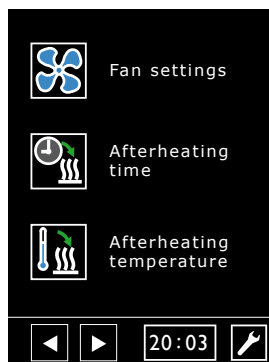
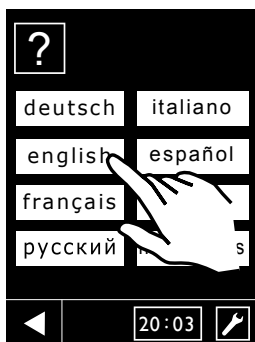


The Help-Menu

By touching the button  in the “Operator Menu” display you will get to the Help Menu.

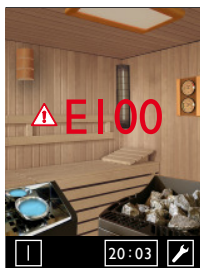
First, select the desired language.

The individual symbols are briefly described here.



Error Message

In order to show you an immediate diagnosis when a possible error occurs, the following errors may be defined on the display through the error code.



Error code	Error	Remedy
E 100 sor	Interruption temperature sen-	Check the lines or sensors The respective sensor has approx. 1.9 kΩ
E 101 sor	Short-circuit temperature sen-	at a room temperature of 20°. Exchange the sensor if necessary.
<hr/>		
		Please contact your dealer.
E 211	Interruption in over-tempera-	
ture protection		
<hr/>		
		Refill water
E 510	Water shortage – refill period	To acknowledge the error report after water shortage fill water into vaporizer first. Be careful. The unit parts may be hot and heavy steam may occur. !!!Danger of scalding!!! By touching the I symbol for ca. 3 seconds you will start the unit again.
E 511	Water shortage – refill period	
exceeded		
<hr/>		
E 900	Communication error	Please contact your dealer.
<hr/>		

Scope of delivery

(subject to changes)

1. Power switchgear
2. Control unit with protective housing
3. Control line ca. 5 m
4. Circuit board for heater sensor with over-temperature protection, KTY-sensor and sensor housing, two mounting screws 3 x 25 mm and sensor cable ca. 1.7 m long, white and red.
5. PE-bag with 7 mounting screws 4 x 20 mm.
6. Spare over-temperature protection
7. 4 cable ties
8. Drill template
9. Touch pen

Optional connections:

- Colored light module Art. No.: 94.2761
- EmoLux
 - colored light module** Art. No.: 94.4833
- GSM "mobile" *
 - Remote start module Art. No.: 94.4671
- Audio - Module** Art. No.: 94.4834



* The GSM "mobile remote start control" may only be mounted in connected with the specific heater cover protection.

** Available from autumn 2010

Technical data

Nominal voltage:	230 V N AC 50 Hz
Switching capacity:	max. 3.3 kW ohmic load (AC1-operation)
Climate operation:	2 kW + 1 kW for evaporator unit, upgradable by connecting power switchgears
Heating time limitation:	6 h, 12 h
Display:	Touch-display
Type of protection:	IPx4 acc. DIN 40050 weatherproof protection
Control range sauna operation:	70 to 110 °C
Control range humidity operation:	30 to 70 °C
Control range IR operation:	30 to 80 °C
Moisture control:	time proportional vaporizer control
Sensor system:	KTY-sensor with safety-temperature limiter 142 °C
Water level control:	Inadequate amount of water in the vaporizer will lead to automatic cutoff
Control characteristics:	Digital two-step control
Ventilator performance:	min. 25W max. 100 W max 500 mA (only for fan without startup condenser)
Light:	min 25W max.100 W max. 500 mA
Colored light (optional):	max. 100 W per color
Reheating:	0-60 min. after disconnecting the humidity program
Error display:	with a warning triangle (blinking) and error code at the touch display
Ambient temperatures:	-10 °C to +35 °C
Storage temperatures:	-20 °C to +60 °C

Please keep this address in a safe place together with the installation guide.

To help us answer your questions quickly and competently, please provide data printed on the ID plate, to include system type, article no. and serial no., in all inquiries.

Service Address:

EOS-WERKE GÜNTHER GmbH
Adolf-Weiß-Straße 43
35759 Driedorf-Mademühlen, Germany
Fon: +49 (0)2775 82-0
Fax: +49 (0)2775 82-431
servicecenter@eos-werke.de
www.eos-werke.de

Guarantee

The guarantee is taken over according to the legal regulations at present.

Manufacturer's warranty

- The period of warranty starts from the date of purchase and lasts up to 2 years for commercial use and 3 years for private use.
- Always include the completed warranty certificate when returning equipment.
- The warranty expires for appliances which have been modified without manufacturer's explicit agreement.
- Damages caused by incorrect operation or handling through non-authorized persons are not covered under the terms of warranty.
- In the event of a claim, please indicate the serial number as well as the article code number and type name with expressive description of the fault.
- This warranty covers damaged parts but no defects due to wear and tear.

In case of complaint please return the equipment in its original packaging or other suitable packaging (caution: danger of transport damage) to our service department.

Always include the completed warranty certificate when returning equipment.

Possible shipping costs arising from the transport to and from point of repair cannot be borne by us.

Outside of Germany please contact your specialist dealer in case of warranty claims. Direct warranty processing with our service department is in this case not possible.

Equipment start-up date:

Stamp and signature of the authorized electrician:

Handling procedures for return shipments (RMA) - Details for all returns !

Dear customer

we hope that you will rejoice in the ordered articles. Just in case that you are not entirely contented as an exception, please follow the procedures specified below. This enabling us to ensure a quick and smooth handling of the return shipment.

Please absolutely respect for all returns!

- Please add the available **RMA-voucher** always **completely filled out** together with an **invoice copy** to the return shipment! Do not stick it on the goods or on the packaging. **We do not accept the return shipment without these papers.**
- Not prepaid parcels **will be refused** and returned to Sender! Please always ask for the **RMA-No.** for the cheapest return.
- **Please pay attention that** the goods have to be sent back **without visible marks of use** in the **original scope of delivery and in original packing.**
- We recommend to use an **additional solid and break-proof covering box** which should be padded out with styrofoam, paper or similar. Transport damages as a result of faulty packing are for the sender's account.

Form of complaint:

1) Transport damage

- Please check the content of your parcel immediately and advise the forwarding company of a claim (parcel service/ freight forwarder)
- Do not use damaged goods!
- Ask the forwarder **for a written acknowledgement of the damages.**
- **Report the claim promptly by phone to your dealer.** He will discuss with you how to act in this case.
- If the transport box has been damaged, please use an additional covering box. Do not forget to add the **acknowledgement of the damage of the forwarding company !**

2) Faulty goods

- The implied warranty period is 2 years. Please contact your dealer in case of **faulty or wrong articles or missing accessories.** He will discuss with you the individual case and try for immediate and customer-friendly solution.
- For **economic returns** within Germany you will get an **RMA-number from the manufacturer.**
- All returns have to be in the **original packing of the goods with corresponding accessories.** Please repack the goods to avoid damages. In case of wrong delivery, please do not use this article !

3) Problems of installation and functioning

- Please **read the manual carefully first of all** and pay attention to the indicated assembly or installing instructions.
- **Your dealer should be the first contact person** because he knows his products best and also knows possible problems.
- **In case of function problems with an article,** please check at first whether there is an obvious material defect. The quality system in our factory reduces malfunctions of new appliances to almost zero.