

Spartherm

The world brand for your living room

Reg.-No:

Merchandise checked by:

Date:

Day Month Year

Your specialist dealer:



Spartherm Feuerungstechnik GmbH · germany · www.spartherm.com



Operating instructions

Stove suites





PREFACE - QUALITY PHILOSOPHY

You have chosen a Spartherm stove suite – many thanks for your confidence.

Our name is connected to the credo of our owner, Mr. Gerhard Manfred Rokossa, in this world of abundance and mass production: „First-class technical quality combined with timely design and satisfactory customer service, leading to further recommendations.“

We and our specialised partners offer first-class products, which affect emotionally and address feelings such as security and comfort. To ensure success please read the operating instructions carefully, in order to quickly and comprehensively become acquainted with your fireplace.

The operating instructions also contain important maintenance and operational information for your safety as well concerning insert value conservation and furthermore valuable tips and help. We furthermore show you how to operate your stove suite in an environmentally sound way. If you have any questions please contact your specialised dealer/ stove fitter.

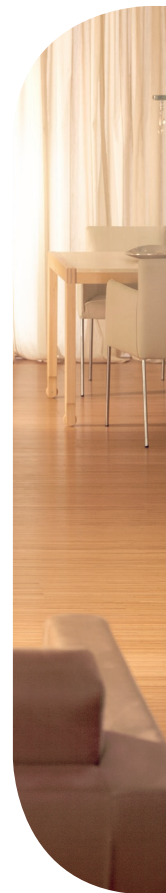
We wish you much pleasure with your stove suite and always a beautiful fire.

Your Spartherm Team

G.M. Rokossa

OVERVIEW OPERATING INSTRUCTIONS SPARTHERM STOVE SUITES

Preface	► S. 2	5. Service and maintenance	► S. 14
1. Proven quality	► S. 4	5.1 Ash draw and ash grate	
2. Fuel	► S. 4	5.2 Glass	
2.1 Wood		5.3 Cleaning and maintenance	
2.1.1 CO ₂ -neutrality		6. Help	► S. 15
2.1.2 Wood types	► S. 5	6.1 Glass soots strongly, fast and unevenly	
2.1.3 Wood quantities	► S. 6	6.2 Fire is difficult to ignite and to keep burning	► S. 16
3. Fire		6.3 Smoke is emitted into the room when reloading	
3.1 Initial operation	► S. 6	6.4 To fast burn or to high wood consumption	
3.2 Heating up and lighting	► S. 7	6.5 Chamotte	► S. 17
3.2.1 Heating up		6.6 Chimney fire	
3.2.2 Burning	► S. 8	7. General guarantee terms	
3.2.3 End of burn	► S. 9	7.1 General information	
4. Technical information	► S. 9	7.2 Guarantee period	
4.1 Heating in fall and spring		7.3 Proof of purchase	► S. 18
4.2 Open and enclosed operational mode	► S. 10	7.4 Guarantee exclusion	
4.3 Combustion air – circulating air – fresh air		7.5 Defect removal – repair	► S. 19
4.4 Floors	► S. 11	7.6 Liability	
4.4.1 Special fire protection precautions for flooring near to the fireplace	► S. 12	7.7 Comment	
4.5 Cleaning of raisable glass	► S. 13		



1. PROVEN QUALITY

OUR STOVE SUITES ARE EXAMINED
ACCORDING TO DIN 18895 A AND A1.

A = NO SELF-CLOSING DOOR

- open operational mode possible
- no multiple use of the chimney permitted

A1 = SELF-CLOSING DOOR

- enclosed operational mode
- multiple use of the chimney possible

The A1 design fire-box must always be closed except when feeding, in order to prevent heating gas being discharged. Manipulating the A1 design closing mechanism is not permitted for safety reasons and makes the guarantee void. The guarantee likewise expires, if the customer otherwise technically modifies the stove suite. Your specialised dealer should have clarified the required design with you before ordering.

These operating instructions comply with the DIN 18896 regulations „Fireplaces for solid fuels“.

Our stove suites are temporal and not continuous fireplaces.

Our stove suites are naturally subject to company quality criteria, from the incoming goods inspection to acceptance before dispatch.

2. FUEL

2.1 WOOD

2.1.1 CO₂ - NEUTRALITY

The foundation „Forest in distress“ accurately formulates this in an information brochure as follows:

„Wood does not make debts with nature. Wood is stored solar power. Wood is made up of sunlight, water, and carbon dioxide. Sunlight is chemically bound for the lifespan of a tree. Sun is changed into lignin and cellulose. It is released when burnt.

Wood only releases as much carbon dioxide, as it took from the air and bound. It doesn't matter, if the wood burns or rots in the forest – the carbon dioxide release is always the same. New trees assimilate the carbon dioxide released by burning wood – this results in a natural closed circuit carbon circulation.

Conclusion: Nature is in equilibrium when wood is burned.“

Germany has legally regulated sustainable forest management. This obligation results in an increase of wood quantities, because the wood increase is on the average 40 % larger than the used amount of firewood and lumber. It therefore makes economic and ecological sense to burn wood this way.

2.1.2 WOOD TYPES

Each wood type contains the same amount of heat energy per kg net wood mass.

Each wood type has however a different volume in spite of the same weight, since the wood cells are differently sized and unequally dense. This fact is represented by the gross density technical value. The wood does not contain water in this case and 1m³ wood is weighed.

Woods with low gross density are used for kindling, since they burn easily, preferably woods with high gross density for regular burning.

Wood hardness	Wood type*	Gross density in kg/m ³
Softwood	Poplar	370
	Spruce	380
	Fir	380
	Pine	430
Hardwood	Beech	580
	Ash	580
	Oak	630

* All other domestic woods can also be used, are however not normally commercially obtainable or available in large quantities

AND NOW SOME TIPS AND INFORMATION:

- Air-dry, untreated split logs with residual moisture of < 15-18 % are the best fuel
- The wood should be stored in a protected, dry, and well ventilated location outdoors
- Too damp wood results in lower heat values, faster chimney sooting and faster glass soiling
- Wood should not be too old, since it otherwise „degasses“ and loses its inflammability (≤ 15 years)
- Do not use resinous coniferous woods; these woods produce flying sparks.
- Open operation with hardwood from deciduous trees

DO NOT BURN:

- Wet wood or bark refuse
- Chip boards or laminates, coated or uncoated
- Paper, cardboard and old clothes
- Plastics and foam material
- Wood treated with wood preservative
- All solid or liquid, non-wood materials

2.1.3 WOOD QUANTITIES

Rated thermal output kW/h	Stacking quantity** kg/h	Series*	Series*	Series*	Series*	Series*
11	4,5	—	Speedy	Varia	Arte	Ambiente
10	4,0	Mini Z1	Speedy	—	Arte	—
9	3,5	—	Speedy	—	Arte	Ambiente
8	3,0	—	Speedy	—	Arte	—
7	2,5	Mini	Speedy	—	—	Ambiente
6	2,5	Mini	—	—	—	—
5	2,0	—	—	—	—	Ambiente

* According to series model

** Only valid after first reloading. 30% more is permissible when kindling.

1 kg beech wood = approx. 1 log with $l = 0.33$ m; $\varnothing 0.10$ m.

The individual log circumference should be 30 cm at the most
Permanent exceedance of the stacking amount by more than 30 %

can damage the insert or the chimney. You can infer the rated thermal output, examined according to DIN, of your stove suite and of the respective model series from your dealer's quotation or request this information from us.

3. FIRE

3.1 INITIAL OPERATION

- Check that all documents and accessories delivered together with the stove suite have been removed from the fire-box.
- Read the operating instructions carefully concerning fuels and other relevant topics. (Items 2.1 - 2.2)
- The initial start-up should be accomplished in coordination with the installing stove fitter or even better together with him. All casings must be dry to avoid cracks or damages
- Ensure sufficient air renewal in the installation area, if an external primary air supply is not available, in order to prevent the development of underpressure resulting in poisonous flue gases being discharged into the room. NOTE! Controlled ventilation, WC-ventilation, and extractor hoods can likewise cause underpressure!!

- Observe point 3.2 HEATING UP AND LIGHTING for ideal optimal lighting.
- The temperature should be increased slowly when burning for the first time after unit installation, but then operate at a maximum to achieve the highest temperatures possible.
- Unpleasant smells develop during this first fire. This is because the stove suite corrosion coating burns itself into the unit steel surface. This smells unpleasant but is absolutely harmless to your health. Therefore please provide for sufficient ventilation in the installation area.
- NOTE! The glass and casing surfaces become very hot during operation: Burn hazard!

3.2 HEATING AND LIGHTING

An ideal burn needs correctly prepared fuel, a burning phase appropriate firing temperature as well as a suitable oxygen supply, to function in an energy maximising, environmentally friendly way.

3.2.1 HEATING UP



Position the combustion air control with the „Cold hand“ (extended setting lever is contained in the scope of delivery for the stove suite) to the right (maximum air supply)

- Check whether the ash draw under the ash grate is empty.
- Stack kindling in a crisscross pattern into the middle of the fire-box.



Lay ignition aids or similar, commercial starting aids underneath. (Paper is not recommended, because it burns too quickly and causes flying ash).

- Do not use spirit, petrol, oil or other easily inflammable liquids.

- Ignite, but don't close door completely:



- just lean it against the door frame with the handle in a closed position with hinged fireplaces.



- do not close the door completely on fireplaces with elevating door, just leave open by 3-5 cm.



When the kindling is burning stoke with small hardwood logs or larger softwood logs in a crisscross pattern. Leave the door ajar or just slightly open with raisable fireplaces.



Close the door when the logs are burning well; the setting lever stays in the right position = maximum combustion air; it should stay in this position for at least 20-30 min. until the operating temperature is reached.



The fire can be stoked with more wood, when the first stack has burned down and there are only embers left (hardwood is now ideal).

3.2.2 BURNING

- According to climatic conditions place the setting lever more or less in the central position or slightly more (closes the air supply). This always depends on experience and current local conditions.

- Do not jerk the door open suddenly, otherwise you run the risk of exhaust gases escaping into the living quarters due to the suddenly resulting underpressure. Only slowly open the door a bit in the beginning.
- Possible emission of smoke into the room when opening the door can be avoided by stoking during the ember phase.
- Never add more than the recommended amount of wood for a lengthier period.

3.2.3 END OF BURN



This has been achieved when the wood has been completely burnt and no smouldering fire or incomplete burn can develop. The setting lever can now be closed (left position).

- This also applies, if the unit is shut down.

4. TECHNICAL INFORMATION

4.1 HEATING IN FALL AND SPRING

A basic requirement for a fireplace to work is a suitable chimney draught (manometric pressure). This is dependent on the outside temperatures and therefore on the seasons. There can be less draught in the transition periods from winter to spring and summer to autumn due to higher outside temperatures, which becomes apparent by bad ignition characteristics or stronger smoke development.

WHAT CAN YOU DO?

- Empty the ash draw under the ash grate before igniting. Insert the ash grate with the with embossed SPARTHERM logo downwards.
- Since the chimney draught is weak start with a larger kindling fire with small easily inflammable sticks of wood in order to quickly attain an adequate temperature and to therefore build up a chimney draught.
- If necessary leave the setting lever on the right-hand side after ignition (maximum air quantity). It is important to provide the fire with as much combustion air as necessary to stabilise the chimney draught, but not more than necessary, in order not to

burn too much wood too quickly.

- Place the setting lever not quite to the left in the last stages of the burn. There is otherwise the danger that a smouldering fire will develop due to decreasing chimney draught.
- The ash should be carefully raked occasionally to avoid larger items blocking the ash grate and preventing the unrestricted flow of primary air.

4.2 OPEN AND CLOSED OPERATIONAL MODE

- Optimum efficiency and therefore optimum fuel utilisation is achieved in the closed operational mode.
- The open operational mode is only permissible if the design A stove suite has been ordered and the necessary structural conditions have been taken into consideration; see item 1 **PROVEN QUALITY**.
- Open fireplaces may only be used occasionally according to 1.BImSchV (Federal immission control regulation).
- The fireplace may only be used under supervision in an open operational mode to prevent fire hazard due to flying sparks or ejected embers.

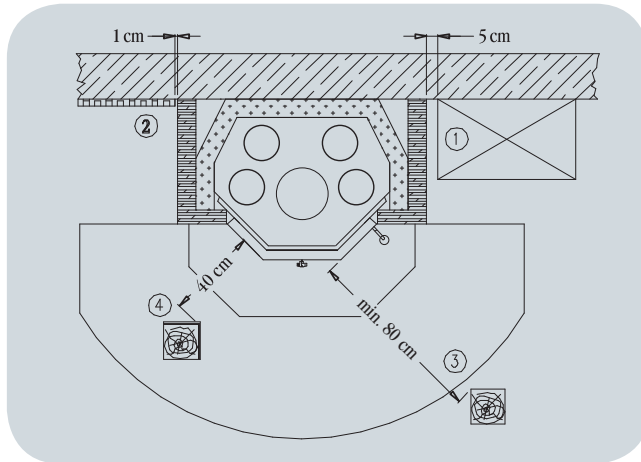
- Only burn logs and not resinous softwood.
- Do not use underpressure creating devices on the same storey (extractor hood in the kitchen). There is the danger of smoke being extracted into the living quarters.

4.3 COMBUSTION AIR – CIRCULATING AIR – FRESH AIR

- The combustion air supply devices may not be modified and must be open.
- The given air outlet grids or openings must be unencumbered or open during burning to prevent a heat build-up in the unit.
- No combustible materials may be placed within 80 cm, measured from the front edge of the fire-box opening, of the radiation range of the open fireplace.
- Items made of combustible materials may not be placed onto any available fireplace surface.
- No combustible items or materials may be placed or installed within 5 cm of the fireplace casing outside of the radiation range, if the surface temperature is $> 85^{\circ}\text{C}$ or could be attained.



- Note that an operating fireplace can get very hot. The glass can reach temperatures of over 300 °C. Always use the provided glove or „cold hand“ operating handle
- Fireplaces may only in accordance with the 1. BlmSchV.



4.4 FLOORS

Floors made of combustible building materials must be protected up to the following distances by a sufficiently thick covering of non-combustible building materials from the fire-box opening or - if permanently built in - from the front edge of the firedog measured forwards and sideways:

... forwards according to the height of the fire-box floor and/or the firedog over the floor plus 30 cm, however at least 50 cm.

... sideways according to the height of the fire-box floor and/or the firedog over the floor plus 20 cm, however at least 30 cm.

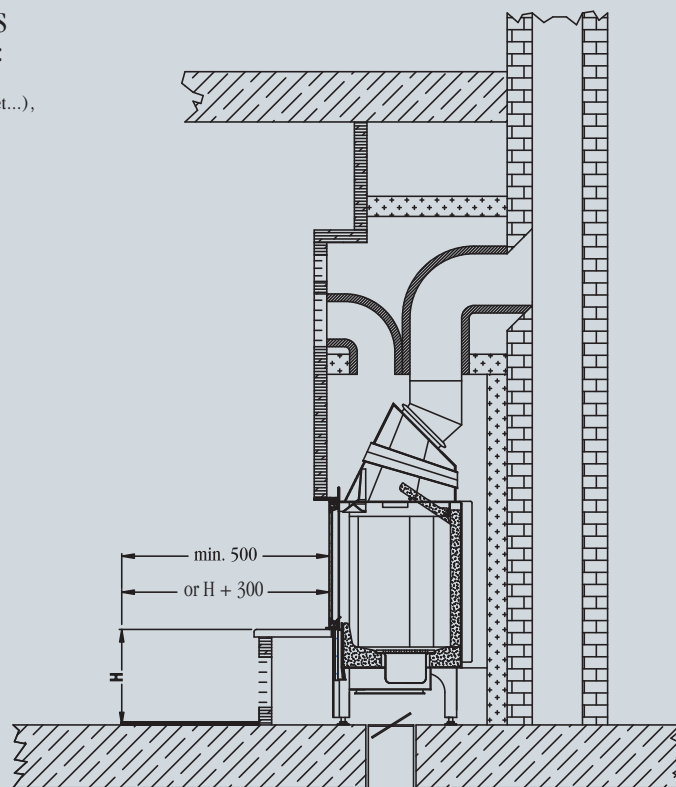
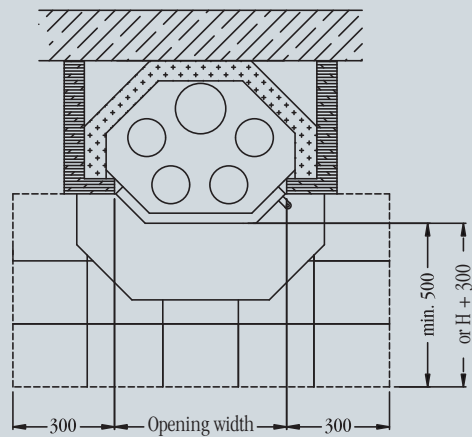
The aforementioned minimum distances are sufficient, if a at least 10 cm high ember / log guard (not contained in the scope of delivery) is built in permanently, in this case measured from the ember / log guard.

► further requirements see illustration 4.4.1 on page 12



4.4.1 SPECIAL FIRE PROTECTION PRECAUTIONS FOR FLOORING NEAR TO THE FIREPLACE:

A spark protection covering is required (e.g. for carpets, parquet...), a fireproof floor covering made of non-combustible material (natural stone...) must be installed



4.5 CLEANING OF RAISABLE GLASS

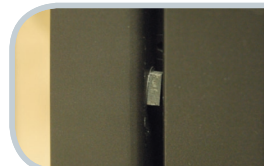
Check whether you have a latch on the left or right top of the frame or whether there is square head bolt on the right-hand side of the door frame.

DOOR LOCK LATERAL SQUARE HEAD BOLT

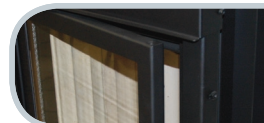
- Push the door completely downwards.



Push the safety lever located above the door over the door frame with the „cold hand“.



Move the square head on the right side of the door from top to bottom between door frame and edge with the setting lever („Cold hand“).



Swivel the door for cleaning.

- After cleaning carry out the above steps in reverse order.

DOOR LOCKING BAR

- Push the door completely downwards.



Push the safety lever located left above the door over the door frame with the „cold hand“.



Press the bar on the top right upwards; the door opens slightly and can be further opened for cleaning.

- Close the door by pressing against the door frame.
- Push the safety lever back into its original position.

5. SERVICE AND MAINTENANCE

NOTE! Never clean your fireplace when hot or warm.

5.1 ASH DRAW AND ASH GRATE

- Clean and empty the ash draw and ash grate in regular intervals according to your heating habits.

NOTE! The ash can contain embers for up to 24 hours.

- The ash pile in the ash draw may not reach or obstruct the slots in the ash grate.
- Always place the ash grate into the foreseen fire-box recess with the SPARTHERM inscription downwards.
- Ash is a superb plant fertilizer because it contains many minerals.

5.2 GLASS

Your glass will remain soot-free for a long time if you:

- Use dry wood (2.1.2 WOOD TYPES)
- Control the combustion air according to the burn situation (3. FIRE)

- Have as high a firing temperature as possible
- The chimney draught is correct
- The wood quantity is in the optimal operational range

Gradual sooting of the glass is a completely normal process and does not constitute a reason for complaint. Clean the inside of the glass regularly with the provided glass cleaner, so that the soot particles do not become too burnt-in (after approx. 8-12 operating hours)

5.3 CLEANING AND MAINTENANCE

The fireplace, the heating, and exhaust gas ducts should be cleaned regularly. Take special care that chimney is not obstructed after lengthy non-use.

► further requirements see table on page 15


What	How often	With what
Stove suite outside and fire-box	As necessary but at least annually	Broom, vacuum cleaner or ash vacuum
Glass	According to burning behaviour, for optimal view, recommendation after 8-12 operating hours	Glass cleaner for fireplace and glass available in the specialised trade, cloth
Door mechanics on raisable fireplaces	As necessary but at least annually	Highly heat resistant lubricants (up to 1000 °C), available in the specialised trade
Finish surfaces in chrome or gold	As necessary	Mild detergent and soft cloth; Do not use abrasives, do not polish
Stainless steel surfaces	As necessary	Stainless steel cleaning agent and soft cloth
Painted surfaces	As necessary	Damp cloth without cleaning agent with abrasives
Warm air grid	As necessary	Dust cloth or vacuum cleaner
Ash draw and grid	As necessary	Empty manually or with a special ash vacuum cleaner
Air space underneath ash draw	As necessary	Vacuum cleaner or special ash vacuum cleaner

6. HELP

6.1 GLASS SOOTS STRONGLY, FAST AND UNEVENLY

Please answer the following questions, if this did not happen from the start:

- Are you using the correct fuel and technology?
(2. FUEL)
- Is it spring or fall (4.1 HEATING IN FALL AND SPRING)?
- No inversion weather conditions
(chimney cannot build up a draught)?
- Ash drawer and grate unobstructed?
- Combustion air control fully opened (setting lever on the right)?
- External combustion air duct unobstructed?
- Does sooting occur quickly within half an hour? (A gradual contamination during unit operation is normal.
A car windscreen also gets dirty during travel!)
- Check gasket fit!



If you have answered all questions with yes and there is still no improvement contact your specialist dealer/stove fitter

6.2 FIRE IS DIFFICULT TO IGNITE AND TO BE KEPT GOING

Please answer the following questions, if this did not happen from the start:

- Are you using the correct fuel and technology?
(2. FUEL)
- Is it spring or fall (4.1 HEATING IN FALL AND SPRING)?
- No inversion weather conditions
(chimney cannot build up a draught)?
- Ash drawer and grate unobstructed?
- Combustion air control fully opened (setting lever on the right)?
- External combustion air duct unobstructed?

If you have answered all questions with yes and there is still no improvement contact your specialist dealer/stove fitter.

6.3 SMOKE IS EMITTED INTO THE ROOM WHEN RELOADING

- See all questions ad item 6.1
- Has your stove suite already achieved operating temperature?
- Did you open the door slowly at first?

If you have answered all questions with yes and there is still no improvement contact your specialist dealer/stove fitter.

6.4 TO FAST BURN OR TO HIGH WOOD CONSUMPTION

Please answer the following questions, if this did not happen from the start:

- Have you reduced the combustion air control
(setting lever to the left)?
- Are you using hardwood with 15-18% residual moisture
after kindling?
- Is the door completely closed?
- Have you observed the recommended stacking quantity?

If you have answered all questions with yes and there is still no improvement contact your specialist dealer/stove fitter.

6.5 CHAMOTTE

- Cracks or broken chamotte are not a reason for an entitled complaint. Chamotte is a natural product, which is exposed to very high loads. A stress or expansion crack is not alarming but is only an optical defect.
- Broken chamotte or chamotte with a changed position must be exchanged. Please contact your specialist dealer/stove fitter

6.6 CHIMNEY FIRE

- Fireplace sparks are frequently transported into the chimney when burning resinous wood. These can ignite the chimney soot layer (this is a rare occurrence, if the chimney sweep cleans regularly). The chimney is on fire. This can be recognised by the flames emerging from the chimney, by intensive flying sparks, by smoke and an unpleasant odour and by the heating up chimney walls.

Is important to act correctly in such cases. Alarm the fire brigade using the emergency number 112. Also notify the chimney sweep. Combustible objects should be removed from the vicinity of the chimney. Experts warn: Do not extinguish with water in the meantime. Temperatures of up to 1300 °C can be reached during a chimney fire. Fire fighting water would immediately be transformed into steam. A 10 litre bucket of water changes into 17 cubic metres of steam. The enormous resulting pressure could blow the chimney apart.

7 GENERAL GUARANTEE TERMS

7.1 GENERAL INFORMATION

This quality product has been manufactured according to the state-of-the-art. The used materials have been carefully selected and are subject to continuous inspections as also our production process. Specialised knowledge is necessary to install and build in this product. Our products may therefore only be installed and commissioned by specialised companies with consideration to the valid legal regulations.


7.2 GUARANTEE PERIOD

We guarantee for our products as follows:

Stove suites	5 years
Stoves	5 years
Fireplace cassettes	5 years
Fireplace doors	5 years

This period starts with the date of delivery to the first customer and for the following areas:

- Error free function according to the appropriate DIN examination requirements
- Professional installation of all parts belonging to our scope of delivery

- 
- Perfect material condition
 - Area of the Federal Republic of Germany (can however be contractually extended)

We grant 6 months guarantee on fire area wearing parts such as chamotte, fire grids, seals, and glass panes, as well as control elements such as handles, setting lever, electronic components, and painted as well as galvanised surfaces.

7.3 PROOF OF PURCHASE

The acquisition date must always be documented with the sales slip or guarantee certificate. We are not obligated to provide any guarantee performance without this proof.

7.4 GUARANTEE EXCLUSION

The guarantee does not apply before expiry of the guarantee period in the following cases:

- **Wear:**
Chamotte: is a natural product, which is subject to expansion and contraction during each heating procedure. This can result in cracking. The chamotte is fully functional as long as it retains its

position in the fire-box and does not break.

Surfaces: Discolorations in the paint or on the galvanic surfaces resulting from thermal load or overload.

Seals: : Reduction of the impermeability due to thermal load and hardening.

Glass panes: Soiling due to soot or burnt-in arrears of burned material, as well as colour or other visual changes due to the thermal load.

- Incorrect transport and / or incorrect storage
- Fragile parts such as glass and ceramic
- Inappropriate handling and/or use
- Lacking maintenance
- Incorrect unit installation or connection
- Non-compliance with the installation and operating instructions
- Technical modifications to our product by unauthorised third parties

7.5 DEFECT REMOVAL – REPAIR

We will repair all defects, demonstrably due to material or production defects within the guarantee period free of charge, if the specialised dealer has been notified as soon as possible and the specialised dealer has submitted an assessment of the damage/repair case in writing. Any further compensation for damages is excluded.

We will repair recognised cases without charging additional expenses (hotel, flat charge for km etc.) within the first year after delivery. We will invoice the client all resulting additional expenses after this 6-month term for accomplished service performances concerning the replacement of wearing parts. This also applies to service performances, which are to be represented by third parties and not by us.

The guarantee term is neither extended nor does it start anew after repair of the unit or replacement of various components. The legal guarantee period applies to the replaced parts.

7.6 LIABILITY

Damages exceeding the units we supplied are not recognised, if not otherwise legally foreseen or adjudicated.

7.7 COMMENT

Our specialised dealers are always willing to help you at any time within or without the guarantee period.

Subject to change without notice. errors and omissions excepted!

