

USE AND INSTRUCTION MANUAL MOD. KF 981 – KF 981 UD

rev. 0

TECNOEKA S.r.l.

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\\Ekaserver\Dati\\Sistema Gestione Qualità (SGQ)\\PRODOTTI\\Famiglia 1 - FORNI\FORNO ELETTRICO 40 60 90\\LEka\\MANUALI D'USO - Forno Elettrico 40 60 90 - LEka\\Manuale d'uso KF 981 - KF 981 UD - GB rev. 0.doc

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Prodotti mirati per Ristorazioni, Pasticcerie, Panetterie e Gastronomie

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CE DECLARATION OF CONFORMITY

Annexed document II A, of directive 98/37/EC

Manufacturer	TECNOEKA Srl
Address	Via I. Nievo, 12/B - 35012 Camposampiero (Pd)
Type of product	Electric oven
Model	KF 981 - KF 981 UD

TECNOEKA Srl declares that the above mentioned products conform to the safety regulations under:

- Low voltage directive 2006/95/EC

CEI EN 60335-1 CEI EN 60335-2-42

- Electromagnetic compatibility Directive 2004/108/EC

CEI EN 55014-1 CEI EN 61000-3-2 CEI EN 61000-3-3

- Machine Directive 98/37/EC;
- Directive on the general safety of products 2001/95/EC;
- Directive on the restriction in the use of dangerous substances in electrical and electronic appliances 2002/95/EC;
- Directive on waste from electrical and electronic appliances 2002/96/EC.

Camposampiero, 06/12/2007.

Signature of a Representative of the Board of directors

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1. Technical service

A technical check-up once or twice a year helps prolong the life of the appliance and guarantees better operation.

Make sure that assistance is carried out solely and exclusively by qualified personnel.

For any spare parts orders or for any information about the appliance, always mention the serial number and model (data indicated on the "technical data" plate at the rear of the oven).

2. General warnings

<u>Very important!</u>: keep this instruction book together with the appliance for future consultation.

<u>These warnings were drafted for your safety and for that of others. Please read them carefully before installing or using the appliance:</u>

- If, on receipt of the goods, the **packaging** is damaged, write the following on the delivery note: "I REVERSE THE RIGHT TO CONTROL THE GOODS", specify the damage and get the driver to sign in acceptance; send a claim in writing to the seller within 4 calendar days from the date of receipt. No claim shall be accepted after such period.
- The appliance is intended for professional use and must be utilised by qualified personnel trained to use it.
- Any modification which may be necessary on the electrical system to enable installation of the appliance, must be carried out solely by competent personnel.
- It is dangerous to modify or attempt to modify the characteristics of this appliance.
- Never clean the appliance with direct water jets, because, if any water enters, it could limit the machine's safety .
- Before doing any maintenance or cleaning jobs, disconnect the appliance from the electrical mains and allow it to cool.
- Do not attempt to carry out the periodic controls or any repairs by yourself. Contact the nearest Service Centre and use only original spare parts.

N.B.: Improper or incorrect use and failure to observe the installation instructions shall release the manufacture from all responsibility. In this connection, the directives in the "POSITIONING" paragraph must be strictly observed.

3. Technical specifications

	height (feet included)	cm	78
Overall dimensions:	width	cm	91
	depth	cm	75
Weight:		kg	86
Internal dimensions	height	cm	51.5
(effective) of the cooking	width	cm	60
compartment:	depth	cm	45
Volume (effective):		dm³	139
Tray maximal load:	GN 1/1	kg	4
Total load:	6 trays GN 1/1	kg	24
Power elements:	2 Convection heating elements	kW	8
rower elements.	2 Convection motor ventilators	W	240
Maximum total power:		kW	8.4
Class:	l (against electric shocks)		
Degree of protection against humidity:			IPX0

Power supply voltage: (50 Hz)	220/230V~	380/400V~ 2N
Power cable diameter:	3 x 6 mm ²	4 x 2.5 mm ²
Type:	H07RN-F	H07RN-F

The noise level of the appliance in operation is below 70 dB (A).

The "technical data" plate is positioned on the rear panel of the appliance.

4. Instructions for the installer

The following instructions are aimed at the qualified installer, to ensure that he carries out the installation, adjustment and maintenance operations as correctly as possible and according to current legal regulations. Any operation must be performed with electrical power cut to the appliance.

Before using the appliance, carefully remove the special adhesive film protecting the parts in stainless steel. Do not leave any glue residues on the surfaces. If necessary, remove them at once, with an appropriate solvent.

<u>Positioning</u> - Position the appliance perfectly horizontally on a table or similar support (the table or support must be at least 85 cm above the floor). Position it at a distance of not less than 10 cm from the side and rear walls, to enable natural ventilating air to circulate freely around it. The appliance is ventilated through specific openings on the metal walls of the outer housing, and ensures efficiency and long-life. For this reason it is strictly forbidden to obstruct these ventilation openings, even partially or for short periods. Failure to observe this specific prohibition releases the manufacturer of the appliance from all responsibility and immediately voids any guarantee rights for the said appliance, because its constructive conformity has been voluntarily compromised. Furthermore, the appliance is not suitable for embedding and for grouped positioning with other identical appliances.

<u>Electrical connection</u> - The appliance must be connected to the electrical mains according to current legal regulations. Before making the connection, make sure of the following:

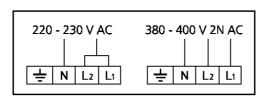
- the voltage and frequency values of the power supply system match the values on the "technical data" plate affixed on the appliance;
- the limiting valve and the system are able to support the appliance's load (see the "technical data" plate);
- the power supply system has an adequate earth connection according to current legal regulations;

- a single-pole switch with minimum between-contacts aperture of 3 mm, sized to the load and conforming to current legal regulations, is fitted between the appliance and the mains in the direct connection to the mains;
- the single-pole switch used for connection is easy to reach when the appliance is installed;
- the yellow/green earth wire is not interrupted by the switch;
- the power supply, when the appliance is operating, must not deviate from the rated voltage value by $\pm 10\%$.
- make sure that after inserting the power supply cord into the terminal block it does not come into contact with any of the cooking range's hot parts.

Connection to the water mains - The appliance must be fed with softened drinking water, with hardness from 0.5°F to 5°F (it is obligatory to use a softener to reduce the formation of lime inside the cooking chamber) and pressure in the range from 150 to 250 kPa (1.5 - 2.5 bar). Connection to the water mains should be made through the threaded 3/4" solenoid-valve on the rear of the appliance, fitting in between a mechanical filter and an on/off tap (before you connect the filter, allow a certain quantity of water to flow out in order to drain any waste from the pipe).

<u>Water drainage</u> - One drainage tube comes out from the rear of the appliance, to drain the cooking compartment. You should connect one pipe to the drain tube, with an internal diameter of 30 mm (DN 30), resistant to vapour temperatures. To prevent choking, make sure that the pipe is stiff and that it does not have any elbows along the drainage path. Furthermore, the pipe must be at constant inclination (5% minimum) along its entire length (the length under consideration is from the drain tube of the appliance to the drainage point and must not exceed 1 meter). The drainage pipe must lead to an open floor-level drain and, to ensure conformity to current legal regulations on hygiene, it must not come into direct contact with the drainage point.

Connecting the power cable - To access the terminal board, just remove the appliance's left side-panel. Loosen the cable gripper and allow the cable to pass through it. Arrange the conductors so that the earth conductor is the last to detach from its terminal if the cable goes into a state of faulty traction. Connect the phase conductors to the terminals marked "L1" and "L2", connecting the neutral conductor to the terminal marked "N" and the earth conductor to the terminal marked with the symbol $\stackrel{\leftarrow}{-}$ according to the following lay-out:



(this electrical connection lay-out is located near the power supply terminal board). Tighten the cable gripper and re-fit the left side-panel of the appliance.

The appliance must be connected to an **equipotential system** whose efficiency must first be checked according to current legal regulations.

This connection must be made between different appliances by using the appropriate terminal marked with the symbol \checkmark . The equipotential conductor must have a minimum diameter of 10 mm² The equipotential terminal is at the rear of the appliance.

<u>Safety thermal breaker</u> - The appliance has a manually reset safety thermal breaker. It protects against excessive dangerous over-temperatures which could be accidentally generated inside the appliance. If the device is tripped, it interrupts electrical power to the appliance and thus prevents it from operating. To access this device, remove the left side-panel of the appliance.

5. Use instructions (for the user)

For first use, we advise you to let the appliance to run load-free at maximum temperature for about one hour. In this way, any unpleasant smells due to thermal insulation and residual work grease are eliminated.

This appliance must be used solely for the purpose for which it was expressly designed, i.e. cooking foods in the oven. Any other use is considered unsuitable.

The appliance can be used: for all oven cooking of deserts, pizzas, meat, fish, vegetables, as well as for gratinating, and for re-conditioning cooled and frozen foods.

When placing food in the cooking compartment, leave a space of at least 40 mm between pans in order not to over-obstruct air circulation.

Do not use pans with higher than necessary edges: edges are barriers which prevent the circulation of hot air.

Warm up the oven before every cooking operation to obtain maximum uniformity.

Do not salt foods in the cooking compartment.

6. Residual risks (for the user)

After a cooking operation, open the door cautiously, to avoid a violent outflow of heat which could cause burns.

While the oven is in operation, pay attention to the hot zones (marked on the appliance) of its external surfaces.

Place the machine on a bench or similar support, at a height of at least 85 cm from the floor.

The bench or support must be able to support the weight of the machine and house it correctly.

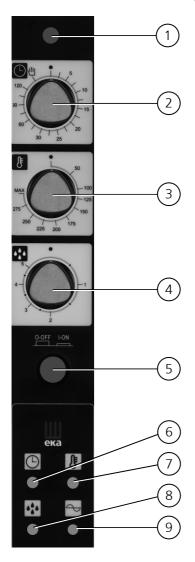
The appliance contains electrical parts and must never be washed with a jet of water or steam.

The appliance is electrically connected: before attempting any cleaning operation, cut power to the appliance.

To prevent incorrect connection of the appliance, the relevant electrical and water connections are marked by identification plates.

If the internal glass panel of the door has to be cleaned, it must be dismantled with the help of a second operator: one operator supports the glass panel, while the other unscrews its securing screws.

7. How to use the control panel



- 1. "Discharge vapour" knob
- 2. "End of cooking" programming knob
- 3. Control thermostat knob
- 4. Automatic humidifier knob
- 5. Line switch key (ON/OFF Key)
- 6. "End of cooking" programmer indicator light
- 7. Control thermostat indicator light
- 8. Automatic humidifier indicator light
- 9. Power line indicator light



Fig. 1



Fig. 2



Fig. 3

<u>Programming cooking time</u> - To run the oven, turn the programmer knob (Fig. 1) in line with symbol <u>\(\mathre{\pi} \)</u> (continuous operation) or in line with the selected cooking time (up to 120 minutes). In the second case, end of cooking is signalled by the oven switching OFF automatically.

<u>Programming cooking temperature</u> - Turn the knob of the adjustment thermostat (Fig. 2) in line with the temperature selected for cooking.

<u>Programming vapour quantity</u> - To generate vapour while the oven is in operation (cooking compartment hot), turn the knob of the automatic humidifier (Fig. 3) in line with the required value (from 1 to 5). If you turn the knob to position • (OFF) the humidifier will stop operating.

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Remember

- If you turn the knob to positions "1" to "4", the humidifier operates by generating vapour (water is introduced into the cooking compartment) at automatically adjusted, cyclically repeated time intervals (The higher the number the higher the humidifier operating time and thus a higher quantity of vapour is produced).

- If you turn the knob to position "5", automatic control of the humidifier is disabled it now operates by continuously introducing water into the cooking compartment (continuous production of vapour).
- Before beginning to run the automatic humidifier, stabilise the temperature inside the cooking compartment at a value of at least 150°C KF 981 and 110°C KF 981 UD, order to optimise vapour production.

<u>Line key (ON/OFF)</u> - To electrically power up the appliance, press the key of the line switch to "ON". In this state, the oven is ready to operate.

<u>Line indicator light</u> - The green line-indicator light indicates that the oven is electrically connected to the power supply line.

<u>"End of cooking" programmer indicator light</u> - The programmer orange indicator light indicate that the oven is operating and that cooking time is active.

<u>Control thermostat indicator light</u> - The control thermostat orange indicator light goes OFF whenever the programmed temperature is reached inside the cooking compartment. It lights up again when the thermostat is tripped to re-establish this temperature.

<u>Automatic humidifier indicator light</u> - The green indicator light of the automatic humidifier indicates that the water solenoid-valve is operating and, therefore, vapour is being produced in the cooking compartment.

Oven internal light - The light is always on when the oven is operating.

<u>To switch off the oven</u> - Turn OFF the knobs of the "end of cooking" programmer and of the thermostat and press the line switch key to "OFF". When you have finished using the oven, shut off the water ON/OFF tap upstream of the appliance and cut out electric power.

8. Oven cooking

For cooking, before putting food in, warm up the oven to the required temperature. When the oven reaches the temperature, put the food in and check cooking time. Switch off the oven 5 minutes before the theoretical time in order to recover stored heat.

<u>Convection cooking (dry heat)</u> - Operate the oven and turn the thermo state knob to the desired temperature.

<u>Convection cooking + steam (dry heat + wet heat)</u> - Operate the oven and turn the thermo state knob to the desired temperature and the humidifier know the desired steam quantity.

<u>De freezing</u> - Operate the oven and turn the thermo state knob and the humidifier knob in correspondence of position OFF (•).

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9. Cleaning (WARNING: Cut power to the appliance before every operation)

General cleaning - Clean the oven when it is cold. Wash enamelled parts with lukewarm water and soap, do not use abrasive products, steel wool, or acids, which could ruin them. To clean the steel parts, do not use products containing chlorine (sodium hypochlorite, hydrochloric acid, etc) even if diluted. Use specific off-the-shelf products or a little hot vinegar. Rinse thoroughly with water and dry with a soft cloth. Clean the glass door of the oven with hot water only, and do not use rough cloths. Do not allow foods (especially acid foods such as salt, vinegar, lemon, etc) to stagnate on the stainless steel parts, because they could deteriorate. Do not wash the appliance with direct jets of water, because if water enters, this could limit the appliance's safety. Do not use corrosive substances (e.g. hydrochloric acid) to clean the oven's support bench.

<u>Cleaning the oven</u> - It is good practice to clean the oven interior at the end of every day of duty. In this way it will be easier to remove cooking residues, preventing them from burning when the oven is next used. Clean it accurately with hot water and soap or with the appropriate off-the-shelf products.

<u>Cleaning the door</u> - The glass panel of the door facing inwards toward cooking compartment can be cleaned with the same type of degreasing product used to clean the compartment. Otherwise, you can use normal glass cleaning product (non toxic). A common glass detergent can be used also to clean the glass panel of the door facing outward. In all cases, you may just use tepid soapy water. After rinsing, thoroughly dry the glass surface with a soft cloth. If opaque sections form between the two glass panels of the door, they can be eliminated after dismantling the internal glass panel. Procedure: unscrew the 4 screws securing the glass panel (grip, between your thumb and index finger, the knurled ring-nut of the screw and turn it anticlockwise). Take great care not to allow the 4 plastic washers to drop - they protect the glass against direct contact with the metal part of the screw. To facilitate removal of the internal glass panel, first unscrew the two screws which secure the glass panel to the bottom of the door (the panel stays hung). To ensure a successful job, we advise you, in any case, to carry it out with the help of a second operator (one operator supports the glass panel while the other unscrews its securing screws in complete safety). After you have removed the dirt between the two glass panels, re-install the interior panel, following the instructions in reverse order.

<u>Cleaning the fans</u> - The fans must be periodically cleaned with specific anti-lime scale products. All the parts must be carefully cleaned, removing all lime scale deposits. To have access to the fans remove the fan casing after removing the screws that fix it to the cooking chamber. When cleaning is complete, replace the casing and screws.

<u>Cleaning the door seal</u> - For hygiene and good operations, it is good practice to clean the door seal at the end of each day's work. It should be carefully washed with warm soapy water, rinsed and dried with a soft cloth. Any incrustations or food deposits must be carefully removed, without using sharp metal tools which could irreparably damage the seal.

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10. Maintenance

<u>General information</u> - A periodic control (at least once a year) of the appliance aids to guarantee long life and correct operations. Any sort of maintenance work on the appliance must be done exclusively by technically qualified operators who have been trained in the maintenance work on this appliance. Before beginning any sort of maintenance work on the appliance, turn the power supply off (at the magnetothermal safety switch upstream from the appliance) and let it cool down. Access is gained to the inside components that could require maintenance work by removing the left side of the appliance.

<u>Changing the lighting lamp in the cooking chamber</u> - The lamp is housed between the two door glasses; to replace it remove the internal glass as described in the paragraph: "Cleaning the door". After removing the internal glass, replace the lamp with another with the same specifications: 12V 35W 300°C (this is a halogen lamp and should not be touched with your bare hands).

<u>Changing the door seal</u> - The door seal has a rigid profile with 3 fixing tabs. The profile must be fitted into the guide on the face of the cooking chamber. The rectangular seal fits perfectly into the frame of the guide and, therefore, the seal profile fits perfectly onto the face of the cooking chamber. To change the seal, remove the old one from the guide by pulling hard at the four corners. Clean any dirt from the guide and introduce the new seal (to make this operation easier, we advise dampening the seal profile with soapy water).

<u>Resetting the thermal breaker safety device</u> - This device is reached by removing the left side of the appliance and can be reset by pressing the red key right down (which is marked by a special adhesive label), which is inside the electric components compartment.

Possible faults

Type of fault	Cause	Corrective action
Control panel	- Incorrect electric connections to the mains	- Check the mains connection
completely off (the oven	- No mains voltage	- Restore mains voltage
does not work)	- Thermal break safety device tripped	- Reset the thermal break safety device
Cooking cycle set: the	- Door open or ajar	- Close the door
oven does not work	- Damaged magnetic sensor	 Contact a qualified technician to repair the sensor
Automatic humidifier	- Incorrect connection to water mains	- Check the connection to water mains
ON: no steam is	- Cut-off cock closed	- Check the cut-off cock
produced in the cooking	- Blocked water inlet filter	- Clean the filter
chamber	- Damaged water inlet solenoid	 Contact a qualified technician to repair the solenoid
	- Seal not fitted correctly	- Check the seal fitting
Door closed: steam comes out of the seal	- Damaged seal	 Contact a qualified technician to repair the seal
comes out of the seal	- Handle prong loosened	 Contact a qualified technician to repair the prong
	 One of the motors is blocked or turns slowly 	 Contact a qualified technician to repair the motor
The oven does not cook evenly	- The motors do not go into reverse	 Contact a qualified technician to repair the motor
	 Heating element not powered or is damaged 	 Contact a qualified technician to repair the element
Lighting lamp in the cooking chamber does	- Damaged lamp	- Change the lamp
not work	- Damaged lamp feeder	 Contact a qualified technician to repair the feeder
The thermo safety device turns on in	- Device damaged	 Contact a qualified technician to repair the feeder
continuous	- Regulating thermo state damaged	 Contact a qualified technician to repair the feeder

11. Technical service

Before leaving the factory, the appliance was completely regulated and tested by expert specialised personnel to guarantee the best operating results.

All repairs and settings must be performed with utmost care and attention, respecting national safety regulations in force. Always contact your retailer or our nearest Service Centre, giving details of the problem, the appliance model and the serial number (on the rating plate on the rear panel).

For any maintenance the user can contact Tecnoeka by calling the telephone numbers on the cover or going to www.tecnoeka.com.

12. Informations to the consumers

Further to Directive 2002/96/EC, the symbol of the crossed rubbish skip on the appliance means that at the end of its life, the product must be disposed of separately from the other rubbish. The user must hand the appliance to a specialised waste collection centre for electric and electronic equipment.

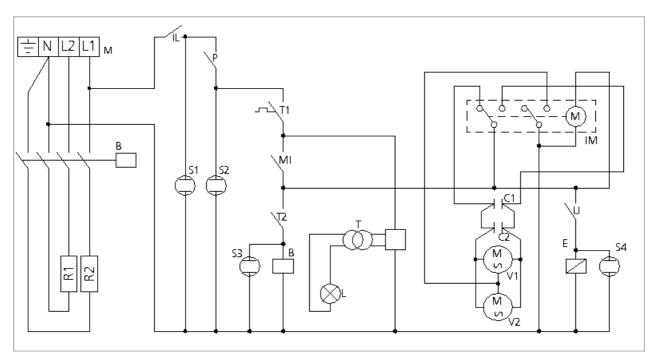


The separate collection of the rubbish and subsequent treatment, recovery and disposal help to produce other equipment using recycled materials, reducing the negative effects on the environment and public health, which would be caused by incorrect management of the rubbish.

Should the user dispose of the product abusively, administrative sanctions would be applied.

13. Wiring layout

WIRING LAYOUT MODD. KF 981 – KF 981 UD



M	POWER	terminal	hoard
IVI	Power	terriiriai	DOard

IL Power line switch

P "End of cooking" programmer

T1 Safety thermostat

T2 Oven thermostat

U Automatic humidifier

S1 Power line indicator light

S2 Programmer indicator light

S3 Thermostat indicator light

S4 Automatic humidifier indicator light

Key

T Transformer for oven lamp

L Oven lighting lamp

V1-V2 Radial motoventilators

R1-R2 Circular heating elements

E Solenoid-valve for automatic humidifier

B Contactor coil

C1-C2 Capacitors

IM Operating direction reversing element

MI Door microswitch

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14. The Warranty

Your appliance is covered by warranty. The seller will replace or repair (and his decision will be final), free of charge for the customer, only those parts that are defective due to a manufacturing fault on condition that, under penalty of forfeiture:

- for <u>domestic equipment</u>, the customer notifies the fault within two months from the date when he/she discovered it and anyway within 2 years form the date of purchase;
- for <u>professional equipment</u>, the customer notifies the fault within 8 days from the date when he/she discovered it and anyway within 12 months from the date of purchase,

by registered letter with acknowledgement of receipt and enclosing the invoice or receipt proving the purchase.

Apart from the case when the customer cannot produce the invoice or receipt proving the purchase or when the above-mentioned terms are not complied with, the **warranty is expressly excluded** in the following cases:

- 1) faults or breakage caused by the transport;
- 2) wrong or incorrect installation of the product (for instance because of insufficient draught of the flue or exhausts) in light of the instructions given in the user's handbook supplied with the product;
- 3) inadequate or abnormal electrical, hydraulic and/or gas supplies;
- 4) carelessness, negligence or incompetence in using the product in light of the instructions given in the user's handbook supplied with the product;
- 5) use of the product for uses different from the one for which it was built or anyway in a manner not compliant with the instructions given in the user's handbook supplied with the product;
- 6) tampering with the product;
- 7) adjustments and/or maintenance and/or repairs carried out by unauthorised personnel and/or with non original spare parts;
- 8) inadequate or careless maintenance of the product in contrast with the user's handbook supplied with the product;
- 9) damages caused by fire, natural disasters and accident as well as by any cause not attributable to TECNOEKA SRL.

The warranty explicitly excludes: varnished or enamelled parts, knobs, handles, movable or removable plastic parts, bulbs, glass parts, refractories and any accessories.

TECNOEKA SRL cannot be held responsible for any damages, either direct or indirect, caused by the product breaking down or following its non-use.

Any repairs carried out during the warranty do not cause said warranty to be extended or renewed.

Nobody is authorised to modify the terms and conditions of the warranty or to issue new verbal or written warranties.

The warranty is valid only for appliances installed in the European Union.

Any dispute shall be settled by the competent Court in Padua.

Warning for the Buver:

- 1. the cooking appliance is designed only for cooking purposes while the heating appliance is designed only for heating domestic environments;
- 2. TECNOEKA S.r.l. does not install the appliances; the seller shall be responsible for any installation carried out;
- 3. TECNOEKA S.r.l. cannot be held responsible for any damages, either direct or indirect, to people, pets or property caused by the appliance breaking down or following its non-use.

The Manufacturer cannot be held responsible for any inaccuracies due to misprints or mistakes in copying in this handbook. The Manufacturer reserves the right to modify the products as he deems fit, also in the interest of the user, without affecting the vital characteristics of functionality and safety.