



Identification. Product
specification. Definitions.
Preparation of the product for
use.

WF8-11-18-22-33-40-55G400 & G400M Manual

Manufactured on the basis of EN 62079:2002-01 – EN 60204-1

Keep for future consultation.



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Translation of the original instructions.

For any claims or observations the reference text is the original one in the manufacturer's language i.e. Italian.

1. SUMMARY

1.1 KEY OF INDICATIONS



Attention!

- Indicates a procedure of a functioning, assembly or verification condition which, if not complied with, can cause death or injury/ damage to persons, animals and objects.



Attention!

- Indicates a procedure or functioning, assembly or verification condition which, if not complied with, can cause damage or destruction of the appliance or the components of which it is composed.
- Indicates a procedure or functioning condition, the compliance with which, as well as being restrictive, can optimise working, realisations or assembly of the component/s in question in these instructions.

This manual supplies the instructions for transport, installation, functioning and maintenance of the following appliance models:

- kg 8 G400 - G400M
- kg 11 G400 - G400M
- kg 18 G400 - G400M
- kg 22 G400M
- kg 33 G400M
- kg 40 G400M
- kg 55 G400M

DOCUMENT RELEASE

Ver	Document name	Network archiving address	Author	Date	Aprvd.	Date
00	WF G400 use and installation manual	I:\110_PROGETTI\P-12_G400_Abilitazione programmazione\P12-54-Documentazione-Manuali-Schemi\Manuale secondo EN 22079_2002-1\MA_B008_WF8-11-18-22-33-44-55_CAP1-5_rev.02.docx	G.G.	29/06/10		

This manual has been drawn-up in compliance with the following Standards:

- IEC EN 62079:2002-01
- EN 62017
- EN 60204-1 chapter 17
- EN 60335-1 from chapter 7.12
- EN 60335-2-7 chapter 7 (and integrations A1, etc.)
- ISO 12100-2
- ISO 10472-1
- ISO 10472-2
- ISO 9398-4:2003

2. IDENTIFICATION

Check that the appliance that has been delivered corresponds with the model stated on the transport document, invoice. The model is stated on the label positioned on the packaging, as well as on the rear closing panel of the appliance.

2.1 APPLIANCE MARK AND DESIGNATION OF THE TYPE

Check that the appliance model stated on the label is the same described in the transport document and/or invoice.

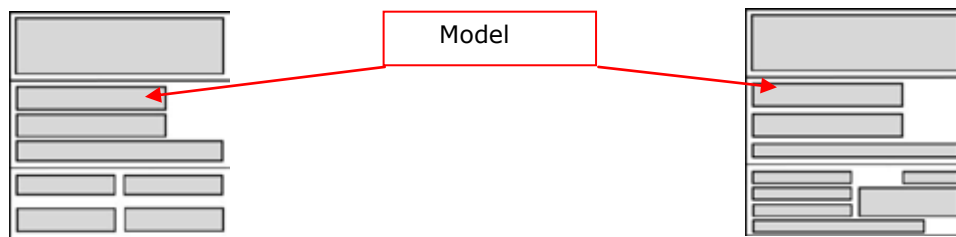


Figure 2
Plate positioned on the packaging.

Figure 2
Plate positioned on the appliance.

2.2 APPLIANCE VERSION

The appliance version is always stated in the "model" field stated on the packaging label and the appliance, and is characterised as follows:

WF **XX** G4 **Y/Y** ZZZZ:

Code	Value	Description
WF		High spin speed appliances (extraction factor at maximum speed > 350 G).
J	M	With G400M processor that can be programmed from the keyboard.
	- - -	With standard G400 microprocessor, programmable only via personal computer or smart card.
	XX	Appliance (8, 11, 18, 22, 33, 40, 55).
G4		G400 or G400M electronic programmer
Y/Y	E	Appliances without heating (functioning with hot water) or with electric heating.
	V	Appliance with direct steam heating.
	E/V	Appliance with mixed electric and direct steam heating (with selector switch).
	VI	Appliance with indirect steam heating.
ZZZZ	GETT	Appliance intended for self-service use (coin operated, automatic laundrettes).
	- - -	Appliance intended for standard use.

Gives the possibility to have the following combinations:

WF8G4	WFM8G4	WH70
WF11G4	WFM11G4	WH100
WF18G4	WFM18G4	WH180
WFM22G4		WH220
WFM33G4		WH330
WFM40G4		WH400
WFM55G4		WH550

2.3 NAME AND ADDRESS OF THE PRODUCER, SUPPLIER AND DISTRIBUTOR

Manufacturer:

- Name: Grandimpianti Industrial Laundry Equipment ALI S.p.A.
- Address: via Masiere 211/c, 32037 Sospirolo (BL) Italy
- Tel: +39 (0) 437 848 711
- Fax: +39 (0) 437 879 108
- E-mail: info@grandimpianti.com
- WEB: www.grandimpianti.com

Supplier (importer):.....

IMPORTER STAMP.....

Distributor:.....

DISTRIBUTOR STAMP.....

2.4 PICK-UP AND DELIVERY OF THE APPLIANCE BY THE CARRIER



Attention!

- **Before accepting the appliance from the carrier, check the conditions of the packaging. If this is evidently damaged on the outside, the appliance may have undergone consequences. In this case, unpack the appliance in the presence of the carrier and sign the relative transport document with reserve.**

3. PRODUCT SPECIFICATION

3.1 GENERAL FUNCTIONS AND RANGE OF APPLICATIONS, DECLARED USE

We would like to thank you for the purchase of our appliance. We are sure you will be satisfied and will obtain the best guarantees if you follow the indications given in this manual carefully.

We would like to inform you that the text to make reference to for any claims or observations, is that in Italian.

Read the content of this manual thoroughly and keep it with the appliance. It must be easily accessible.

The recommendations and warnings contained in this manual cannot cover all eventualities, it is important to have common sense, attention and prudence. These are features that the manufacturer cannot add to the machine but must be envisioned by the persons carrying out installation, maintenance and/or using the appliance.

In the event of interventions on the appliance, the manufacturer recommends the use of original spare parts, which must be ordered after consultation of the technical attachment.



Attention!

- **Any person using this appliance must read this user manual.**

The descriptions and illustrations contained in this manual are not binding; the company therefore reserves the right, at any time and without forewarning, to update the publication and/or make any modifications to parts, components and accessories, if this is deemed necessary for improvement or any construction or sales character.



Attention!

- **All other use that is not explicitly indicated must be considered dangerous.**
- **The manufacturer cannot be considered liable for any damage deriving from improper, incorrect or unreasonable use or however not stated in this manual.**
- **This appliance is not intended for use by children or persons with reduced physical, sensory or mental capabilities, unless they are supervised by a person responsible for their safety.**
- **Modifications of the electric, electronic or mechanical components and also to their relative positions can only be made after written authorisation from the manufacturer.**
- **Children must be controlled so that they do not play with the appliance.**

3.2 DIMENSIONS AND WEIGHTS (FOR TRANSPORT)

If the appliance must be transported and/or delivered the following recommendations must be followed:

- only use the original or similar bed.
- use the manual or electric lifting truck with sufficient lifting capacity and fork length (see table and fig. 3).
- check that the appliance can exceed all obstacles e.g. stairs, doors etc.
- use the original packaging if the appliance must be shipped.

The product must be stored in closed environment, protected against atmospheric agents.

Appliance model	Gross weight (kg)	Width* (mm)	Depth* (mm)	Height* (mm)	Forks minimum length X (mm)
Kg8 G400 – G400M	250	750	850	1240	1100
Kg11 G400 – G400M	300	750	930	1290	1100
Kg18 G400 – G400M	485	930	1140	1510	1100
kg22 - G400M	830	975	1190	1620	1100
Kg33 - G400M	1370	1430	1475	2105	1500
Kg40 - G400M	1700	1430	1570	2105	1500
Kg55 - G400M	1770	1430	1750	2105	1500

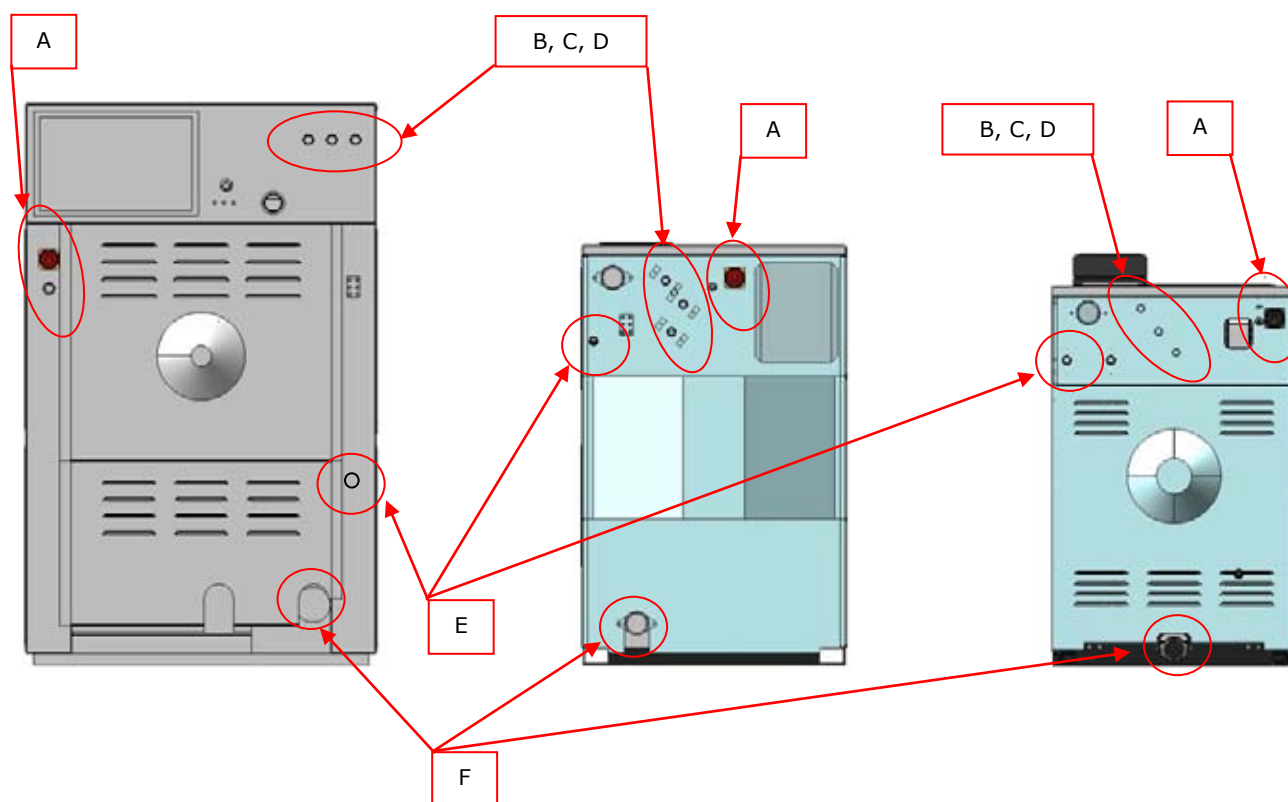
(*) measurements of the packaged appliance.



Figure 3 Appliance transport.

3.3 SUPPLY DATA REGARDING ELECTRICITY, GAS, WATER AND OTHER CONSUMABLES.

The appliance is set-up with 3 water supply connections, one electric power supply input and one steam supply input (for the appliances envisioned with this type of heating). The inputs are displayed in the figure and the dimensions for the connections are stated in the table.



Appliance model	A, input electric power supply	B, hard cold water inlet	C, soft cold water inlet	D, hot water inlet	E, steam inlet	F, water drain
Kg8 G400 - G400M			3/4"			3"
Kg11 G400 - G400M						
Kg18 G400 - G400M						
kg22 - G400M					3/4"	
Kg33 - G400M						
Kg40 - G400M						
Kg55 - G400M						

3.4 ENERGY CONSUMPTION, CONDITIONS

Current absorption, hourly steam consumption and water consumption for the different appliances.

Appliance model	Type of heating	Electric absorption (Kw)	Steam consumption (Kg/h)	Total water consumption (litres)	Hot water only consumption (litres)
Kg8 G400 – G400M	Electric	6.75		79 (**)	18 (**)
	Steam	0.75	7.2		
Kg11 G400 – G400M	Electric	10.5		113 (**)	23 (**)
	Steam	1.5	9.5		
Kg18 G400 – G400M	Electric	14.2		137 (**)	40 (**)
	Steam	2.2	18		
kg22 - G400M	Electric	24		152 (**)	45 (**)
	Steam	3	45.8		
Kg33 - G400M	Electric	28		340 (**)	110 (**)
	Steam	4	150		
Kg40 - G400M	Electric	43.5 (opt. 24)		540 (**)	125 (**)
	Steam	7.5	170		
Kg55 - G400M	Electric	43.5 (opt. 24)		684 (**)	140 (**)
	Steam	7.5	170		

Consumption calculated on the basis of the ISO 9398-4:2003 Standard.

Data relative to soap consumption are not supplied as the amount of soap depends on different factors such as: supplier, type, hardness of the water available in the network, amount of laundry loaded, options selected (e.g. ECO selection).

3.5 NOISE EMISSIONS, WASTE, ETC.

Noise values of the different appliances.

Appliance model	Noise dB (A)
kg 8 – 11 – 18 – 22 G400 – G400M	< 70
kg 33 – 40 - 55 G400M	< 77



Attention!

- During its functioning, the appliance generates water containing soap/s as well as "dirt" removed from the laundry.
- The manufacturer cannot be held responsible regarding the quality and quantity of this waste.
- Follow the local and national Standards in force regarding the disposal of this waste.

3.6 IP CODE

IP codes relative to each appliance model and the descriptions of the code itself.

Appliance model	IP protection rating	Description
kg 8 G400 – G400M kg 11 G400 – G400M kg 18 G400 – G400M kg 22 G400M kg 33 G400M kg 40 G400M kg 55 G400M	IP 24 D	Appliance not protected against mechanical blows. Protected against sprays of water inclined to 15°.

3.7 ENVIRONMENT CONDITION AND FUNCTIONING AND STORAGE LIMITS (TRANSPORT)



Attention!

- **The appliance is suitable only for use in CLOSED ENVIRONMENTS.**
- **In the event of long permanence in the deposit, leave the appliance inside its original packaging, which guarantees excellent protection.**
- **In the event of long standstill periods, after the appliance has been used, follow the instructions given in paragraph 5.7.**

Minimum and maximum environmental conditions for functioning.

Model	Functioning conditions									
	Electric power supply		Water pressure (KPa)		Steam pressure*		Room temperature (°C)		Relative room humidity (%)	
	V	Hz	Min	Max	Min (Kpa)	Max (KPa)	Min	Max	Min	Max
All models	-10 < V < +10 of the value stated on the label	±1 with respect to the value stated on the label	100	800	50	600	5	35	30 without condensation	90 without condensation

* (only for appliances with this type of heating)

Minimum and maximum environmental conditions for storage and transport of the appliances.

Model	Functioning conditions			
	Room temperature (°C)		Room relative humidity (%)	
	Min.	Max.	Min.	Max.
All models	0	55	0 without condensation	90 without condensation

3.8 INFORMATION RELATIVE TO SAFETY, SUMMARY (PERSONAL PROTECTION, NON-DECLARED USE)



Attention!

- **This paragraph states all conditions and behaviour for preventing dangerous conditions for persons, animals, objects or the environment.**
- **Read that stated thoroughly and keep this manual near to the appliance for easy consultation!**
- **The appliance must only be used by trained persons.**

In the event of breakdown and/or malfunctioning:

- disconnect the plug from the socket (if envisioned).
- close the interlocked switch padlock
- close the loading gate valve cocks (hard cold water, hot hard load, steam and steam condensate draining if present)
- empty the dispenser from any soap product residues.

During use, cleaning and maintenance, attention must be paid not to access moving parts with tools or the hands (motors, fans).

In the event of accidents, the manufacturer does not assume any liability for damage to the operator or other persons taking place during use, cleaning and maintenance of the appliance.

Do not open the soap drawer when the appliance is functioning (boiling water or soap may be sprayed pushed by the water pressure).

The appliance has been designed to treat textiles according to the indications stated on the labels of the garments themselves. Only treat garments, household linens and fabrics for everyday use.

Do not handle items that have been in contact with inflammable chemical materials.

Hand wash first and dry them in the air to make these substances evaporate completely .

In particular:

THE USE OF ANY ELECTRIC OR ELECTRONIC APPLIANCE MEANS SEVERAL FUNDAMENTAL RULES MUST BE COMPLIED WITH.

- Do not touch the appliance with wet or humid hands or feet.
- Do not use the appliance barefoot.
- Do not leave the appliance exposed to atmospheric agents (rain, salt, sea salt etc.).
- Do not allow children to use the appliance or unable persons to use the appliance without suitable surveillance.
- Do not smoke in proximity of the appliance during use.
- Do not remove or by-pass safety devices.
- Never use direct or indirect jets of water on the appliance, pay attention not to install it in proximity of zones where this is possible.

- Do not touch water or steam pipes even if the appliance is not running.
- Do not wash garments in the appliance, which have the "hand wash" label or relative symbol.
- Do not use hypochlorite, which could cause the oxidation of some parts of the appliance (whether electric, electronic or metal).
- Incorrect concentrations of soaps or additives used during the washing phases can reduce the life span of the appliance and its performance.



Attention!

- **The manufacturer is not liable for damage to fabrics washed using an inappropriate program or soap.**
- **The manufacturer is not liable for the lack of respect of indications present on the labels of the garments to be handled or on the soaps or additives.**
- **If the labels on the appliance become illegible, replace them.**
- **The manufacturer is not liable for labels that have been removed or replaced.**
- **Respect all local laws relative to safety.**



Attention!

- **The isolating switch input contacts are always live even if the switch is in the off position!**
- **The electric connection and especially the earth wire connection must be made and checked by authorised staff in compliance with the local Reference Standards.**
- **The appliance must have a permanent connection to the earth clamp and the equipotential clamp must be connected with other appliances present in the same place.**
- **The appliance must not be installed on a wooden floor even if it is reinforced.**
- **The floor of the premises where this appliance is installed requires the approval of a structural engineer, who checks the feasibility depending on the static and dynamic load data supplied by the appliance manufacturer.**
- **Do not use the appliance if parts do not function or have been removed.**
- **If the plastic membrane positioned on the appliance control keys is damaged-broken do not use the appliance. Replace the damaged membrane.**
- **If the appliance is not used for 2 weeks or more, it is normal that hydrogen forms in the hot water piping. This highly explosive gas, must be removed by opening the hot water piping for a few minutes. During this operation, there must not be any naked flames present in the room.**
- **Perform maintenance with the regularity requested in this manual.**
- **If body parts should come into contact with the liquid leaking from a damaged display unit, wash using soap and water. Seek medical help in the event of accidental ingestion.**
- **Do not use the appliance if you are not trained to do so.**

3.8.1 INFORMATION REGARDING RESIDUAL RISKS



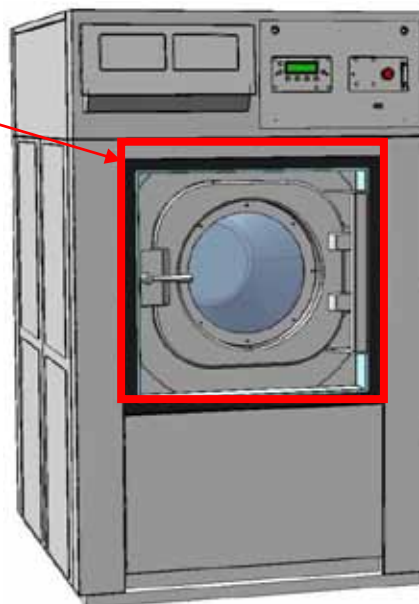
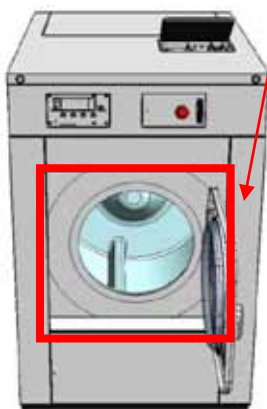
Attention!

- **Shearing and burns hazard. Do not introduce the hands or objects into the tub-dispenser connection pipe or into the protection for airing the inverter.**



Attention!

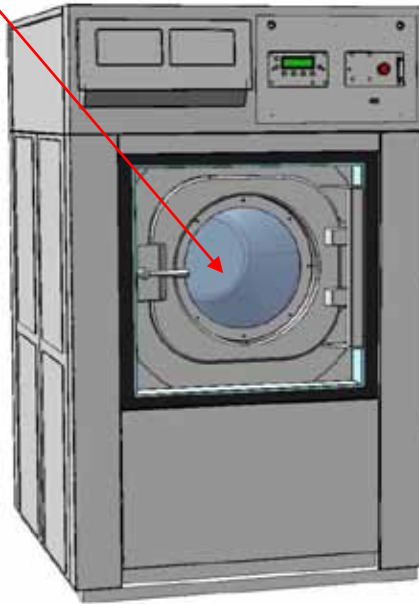
- **Shearing hazard. Do not introduce hands or objects between the fixed and floating parts of the appliance.**





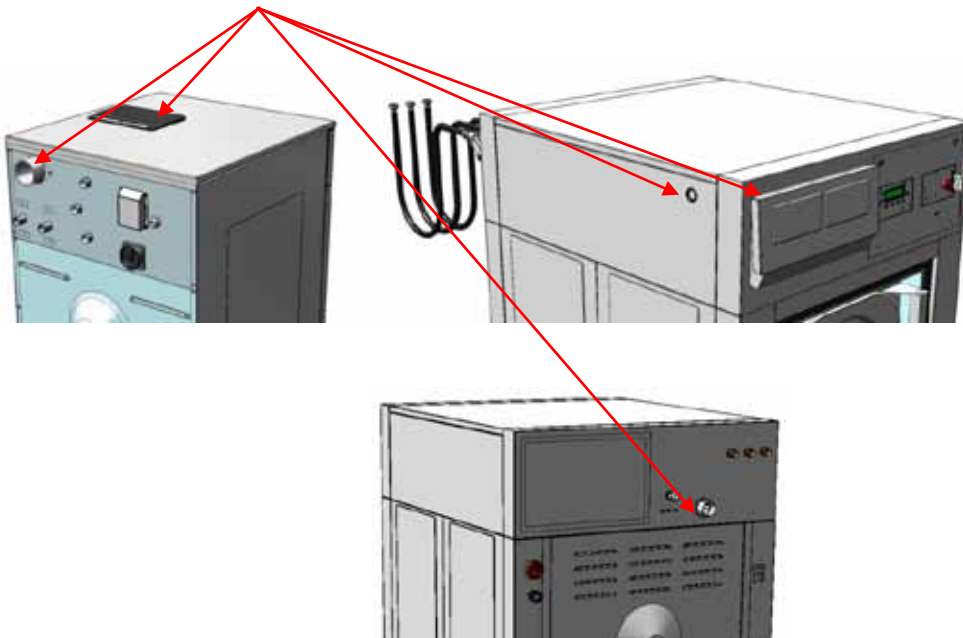
Attention!

- Burns hazard. The appliance door glass can reach temperatures of 80 ÷ 90°C (depending on the washing cycle selected).



Attention!

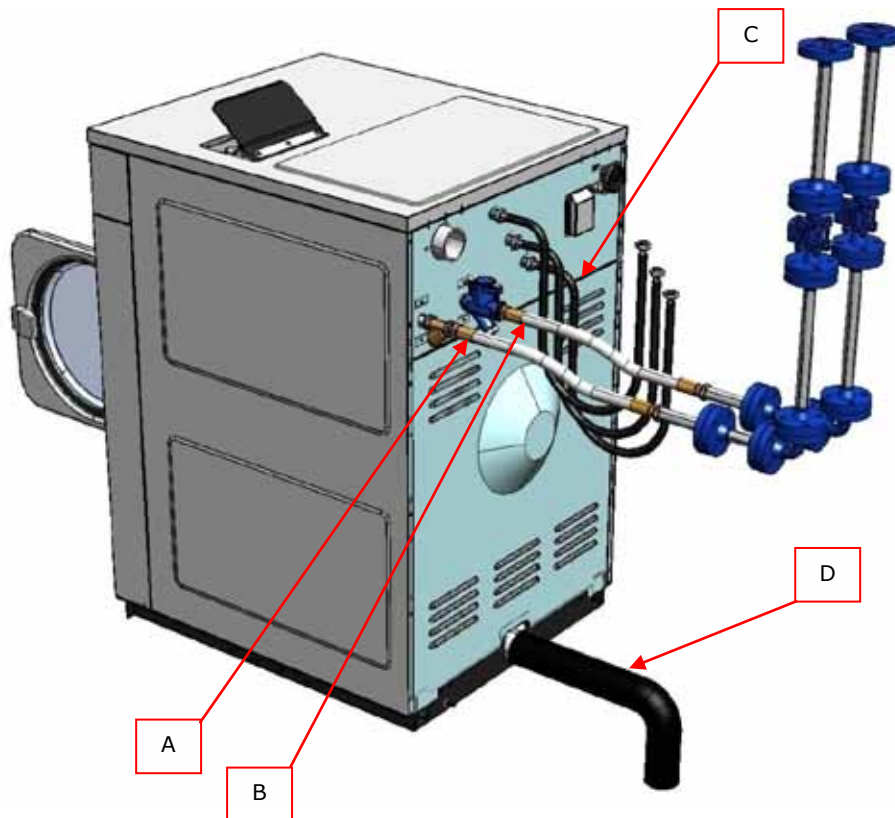
- Burns hazard. Steam may escape from the appliance dispenser drawer and the air-break device. Pay attention to the temperature of the same. Do not introduce hands or objects through these devices.





Attention!

- **Burns hazard. The steam intake pipe A, that of the condensate drain B, the hot water intake pipe C and drain D can reach high temperatures.**
- **The steam intake and condensate drain pipes must be appropriately isolated and protected.**



Attention!

- **Fire hazard. Do not perform the spin cycle with a load of dry laundry.**

4. DEFINITIONS

To help understanding of the manual regarding uncommon definitions, below find the definitions and synonyms of some words used.

Appliance = product subject of the manual (washing machine in this case).

User = person that:

- Is assigned to use the appliance.
- Has read and understood all pertinent parts of the manual in question.
- Is able to perform routine maintenance and clean the appliance.
- Is assigned to extraordinary maintenance of the appliance.
- It is a qualified person, as expressed successively.

Weighing = washing cycle phase used to identify the weight expressed of the load introduced into the drum in kg. This phase is composed of 2 distribution ramps. (for kg 8 G400 , kg 11 G400 , kg 18 G400 , kg 22 G400 and relative M versions only).

Soak = washing cycle phase necessary to loosen stubborn dirt to be removed from the fabric.

Prewash = washing cycle phase necessary to loosen and remove dirt of organic nature.

Wash = main phase of the washing cycle necessary to remove dirt from the fabric.

Rinse = phase of the washing cycle necessary to remove the soap and dirt is suspension from the fabric.

Spin = phase of the washing cycle necessary to remove dirt and soap from the fabric.

Un rolling = final phase of the washing cycle necessary to detach the laundry from the drum and the final spin.

Protection = part of an appliance used specifically to supply a guard by means of a physical barrier.

Damage = physical wounding, damage to health of persons, deterioration of assets or the environment.

Danger = potential source of damage.















Protection device = safeguard (different to a protection) which reduces the risk (mechanical or electric devices).









Risk = combination of the probability of damage occurring and seriousness of the same.

Informed person = person suitably informed or monitored by a trained person in a way to allow them to perceive risks and prevent dangers, created potentially by functioning or maintenance of the appliance.

Qualified technician = person with training, knowledge and experience such to allow the perception of risks and prevent dangers that can derive from interaction with the appliance.

4.1 SYMBOLS (LABELS) APPLIED TO THE APPLIANCE

Description	Symbol	Description	Symbol
At the end of its useful life, the product must be collected separately from other waste.		Conformity mark on the product in compliance with CE Standards.	
Attention, electric hazard: disconnect the appliance from the mains before any intervention.		Attention, crushing hazard: Only use original spare parts. When repairs and maintenance have been completed, restore all panels in their original position.	
Greasing the bearings is mandatory at every indication on the display.		Attention, read the instructions!	
Appliance safety earth connection.		Attention, electric hazard: disconnect the appliance from the mains before any intervention.	
Equipotential connection.		Appliance earth connection.	
Burns hazard.		Burns hazard.	
Attention, electric hazard, voltage 400Vac		Room installation and ventilation requisites.	

Description	Symbol	Description	Symbol
Capacity of the fuses on the appliance.		Electric master switch	
High pressure steam.		Programming n° tokens in the appliance envisioned for self-service functioning.	
Explanatory text. N° of copies present in the appliance and positioning.		Slot for insertion of the smart card in the relevant reader. Optional.	
Explanatory text. N° of copies present in the appliance and positioning.		Smart card reader. Optional.	

5. PREPARATION OF THE PRODUCT FOR USE

5.1 TRANSPORT AND STORAGE



Attention!

- Check that the appliance has correct space necessary for use and functioning of the same according to the installation layouts.
- See technical attachment relative to the layouts.

Proceed as follows if the appliance must be transported and/or shipped:

- Use the original bed.
- Use the manual or electric lifting truck with sufficient lifting capacity and fork length.
- Check that the appliance can exceed all obstacles e.g. stairs, doors etc.
- Use the original packaging if the appliance must be shipped.
- The product must be stored in closed environment, protected against atmospheric agents.

Appliance model	Gross weight (kg)	Width* (mm)	Depth* (mm)	Height* (mm)	Forks minimum length X (mm)
Kg 8 G400 – G400M	250	750	850	1240	1100
Kg 11 G400 – G400M	300	750	930	1290	1100
Kg 18 G400 – G400M	485	930	1140	1510	1100
kg22 - G400M	830	975	1190	1620	1100
Kg33 - G400M	1370	1430	1475	2105	1500
Kg40 - G400M	1700	1430	1570	2105	1500
Kg55 - G400M	1770	1430	1750	2105	1500

(*) measurements of the **NON**-packaged appliance.



Figure 4 Dimension of the forks for transport using fork lift truck.

5.2 SAFETY PRECAUTIONS BEFORE USE



Attention!

- **The following conditions must be verified before installation and use of the appliance:**
 - **The transit zones of the appliance to reach the place to be used must at least support the static load of the appliance and transport system.**
 - **The floor where the appliance will be installed must resist the dynamic load and the static load generated by the appliance.**
 - **Wooden floors are not allowed for installation of the appliance.**
 - **Check that the electric absorption of the appliance is lower than the availability supplied by the electrical energy body.**
 - **Check that the water and steam pressures available (for appliances envisioned with this type of heating) is within the accepted values.**

Model	Static load (N)	Dynamic load	Electric absorption Kw (value for version with steam heating)	Max. water pressure (KPa)	Max. steam pressure (KPa)
KG 8 G400	2840	2330 ±730N, 16 Hz	6,75 (0,75)	800	600
KG 11 G400	3330	2740 ±1100N, 16 HZ	10,5 (1,5)		
KG 18 G400	5830	4660 ±1,220N, 16 HZ	14,2 (2,2)		
KG 22 G400	8080	6452 ±1,626N, 15 HZ	23 (3)		
KG 33 G400	14416	12709 ±2,747N, 14 Hz	24 (4)		
KG 40 G400	18162	16083 ±2,943N, 14 Hz	43.5 opt. 24 (7,5)		
KG 55 G400	19574	17064 ±3,139N, 14 Hz	43.5 opt. 24 (7,5)		

5.3 UNPACKING

Remove the packaging:

- Cut the straps that fix the cardboard (kg 8 G400, kg 11 G400, kg 18 G400, kg 22 G400) and lift upwards.
- Remove the sides of the wooden cage (kg 33 G400, kg 40 G400, kg 55 G400).
- After removal of the external packaging, remove the nylon bag.



Attention!

- **Put the packaging material in a safe place and that is not accessible to unauthorised persons.**

5.4 SAFE DISPOSAL OF PACKAGING MATERIALS

The following materials are used for packaging:

- Nylon (for the bag).
- Cardboard (for the box, for kg 8 G400, kg 11 G400, kg 18 G400, kg 22 G400 only).
- Wood (for the bed on all appliances and wooden cage for kg 33 G400, kg 40 G400, kg 55 G400 only).

If the materials used for packaging must be disposed of, they must be taken to a waste collection and disposal centre.

The adequate separate collection of the packing for the successive start-up of the appliance to be re-cycled, treatment and environmentally compatible disposal contributes to preventing possible negative effects on the environment and favours the re-cycling of materials that make up the packaging itself.

Abusive disposal of the packaging by the user leads to the application of administrative sanctions envisioned by the Standards in force.

Refer to the WEEE European Directive regarding the recovery of parts (only for countries that are part of the European Community).

If it possible to dismantle the individual parts and take them to a differentiated collection centre, refer to the cataloguing groups of the individual parts. If required, the cataloguing groups can be found in the website: www.euwas.org

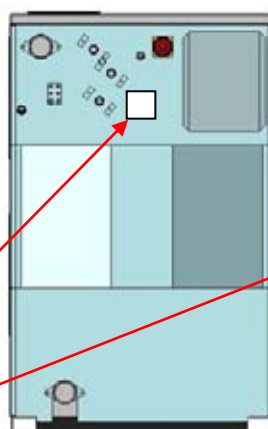
5.5 PREPARATION WORK BEFORE INSTALLATION

When the packaging has been removed, check the data stated on the appliance identification plate.

kg 33 G400
kg 40 G400
kg 55 G400



kg 22 G400



kg 8 G400
kg 11 G400
kg 18 G400

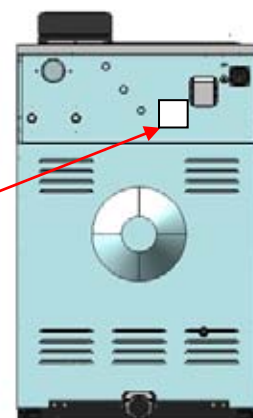


Figure 5 Rear view. Positioning the identification plate.

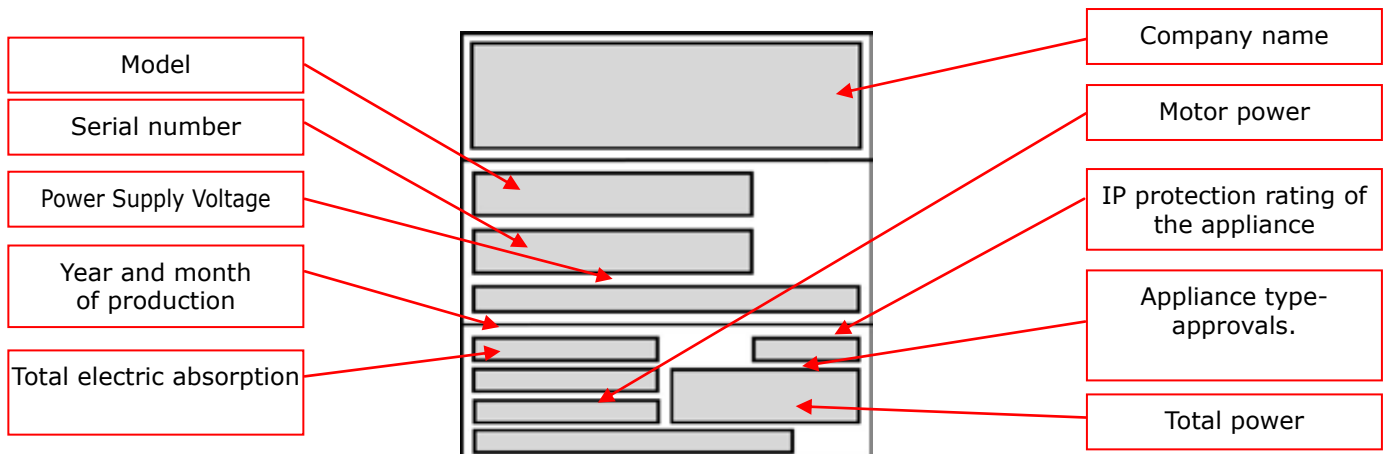


Figure 6 Identification plate present on the last page of the manual and on the rear panel of the appliance.

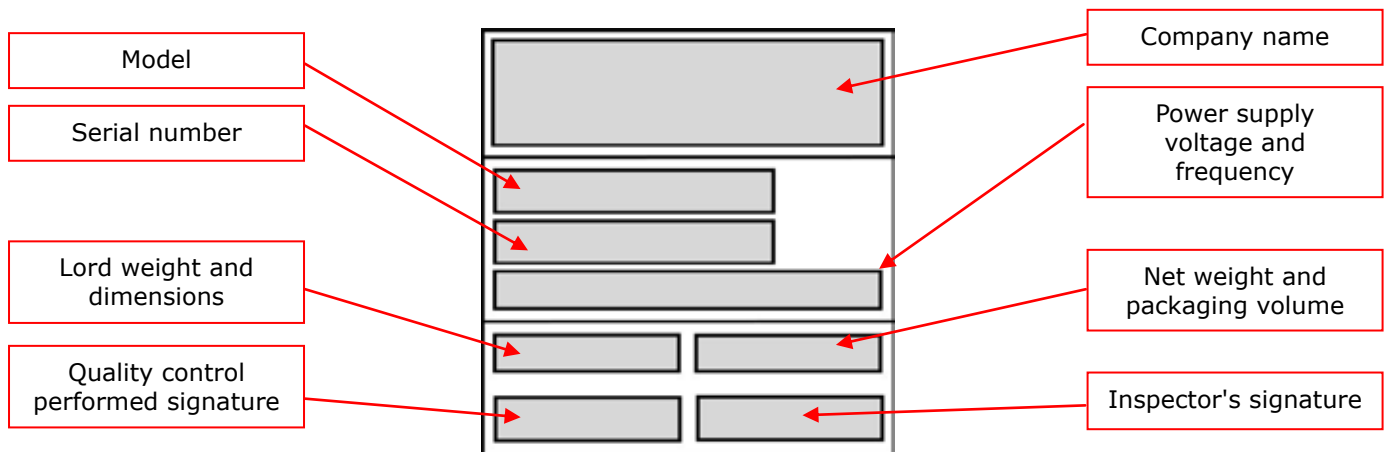


Figure 7 Identification plate present on the appliance packaging.



Attention!

- **Do not power the appliances with voltages and frequencies outside of the values stated.**
- **Check that the electric power supply data correspond with the electric energy supply values.**

CHECK THE SUPPLY ACCOMPANYING THE APPLIANCE

The following supplies, as per standard, must be found inside the drum. These depend on the type of appliance and the heating source envisioned. Open the door and control according to the list given.

Model	Standard supply	Additional supply only for appliances with steam heating.	Optional supply
kg 8 G400			
kg 11 G400	1 exploded diagrams manual to be considered an integral part of this manual, 1 90° rubber 3' diameter elbow joint, 2 straps for fixing the rubber hose, 3 water loading pipes with ¾" lock-nut, 4 x M10 plugs to fix the appliance to the floor.	2 (4 for indirect steam) ¾" high temperature gaskets for steam pipe fitting, 1 steam filter with ¾" connections, 1 (2 for indirect steam) flexible hose for steam fitting with ¾" lock-nut, 1 (2 for indirect steam) piece of Teflon braiding to isolate the steam pipe.	15 tokens for self service appliances supplied with electro-mechanical coin operation.
kg 18 G400	1 exploded diagrams manual to be considered an integral part of this manual, 1 90° rubber 3' diameter elbow joint, 2 straps for fixing the rubber hose, 3 water loading pipes with ¾" lock-nut, 4 x M10 plugs to fix the appliance to the floor, 1 set of spanners for opening appliance lid.		
kg 22 G400	1 exploded diagrams manual to be considered an integral part of this manual, 1 90° rubber 3" diameter elbow joint, 2 straps for fixing the rubber hose, 3 water loading pipes with ¾" lock-nut, 4 x M10 plugs to fix the appliance to the floor, 1 set of spanners for opening appliance lid.	2 (4 for indirect steam) ¾" high temperature gaskets for steam pipe fitting, 1 steam filter with ¾" connections, 1 (2 for indirect steam) flexible hose for steam fitting with ¾" lock-nut, 1 (2 for indirect steam) piece of Teflon braiding to isolate the steam pipe.	
kg 33 G400 kg 40 G400	1 exploded diagrams manual to be considered an integral part of this manual, 1 90° rubber 3" diameter elbow joint, 2 straps for fixing the rubber hose, 3 water loading pipes with 1" lock-nut, 3 x 1" water load filters, 4 x M16 plugs to fix the appliance to the floor, 1 set of spanners for opening appliance control panel, 1 rubber elbow with diameter of 60 mm for vent fitting.	2 (4 for indirect steam) ¾" high temperature gaskets for steam pipe fitting, 1 steam filter with ¾" connections, 1 (2 for indirect steam) flexible hose for steam fitting with ¾" lock-nut, 1 (2 for indirect steam) piece of Teflon braiding to isolate the steam pipe.	
kg 55 G400			

5.6 INSTALLATION AND ASSEMBLY

The following materials are used for packaging:

- Remove the lower front service panel (all models, fixed with 2 – 4 cross head screws).
- Open the upper panel of the kg 8 G400, kg 11 G400, kg 18 G400, kg 22 G400 models, following the instructions given below.
- Open the control panel of the KG 33 G400, KG 40 G400, KG 55 G400 models, making reference to the figures shown below.
- Remove the lower rear panel in all models.
- Remove the central rear panel on 22 G400, KG 33 G400, KG 40 G400, KG 55 G400 models.
- Remove the right and left side panels for KG 33 G400, KG 40 G400, KG 55 G400, all fixed with 2 cross-head screws at the top and 2 hex-head bolts in the lower part.
- Remove the bed, which is fixed using 4 bolts on the same holes to then be used to fix the appliance to the floor.

TO OPEN THE FRONT PANEL IN ALL APPLIANCE MODELS

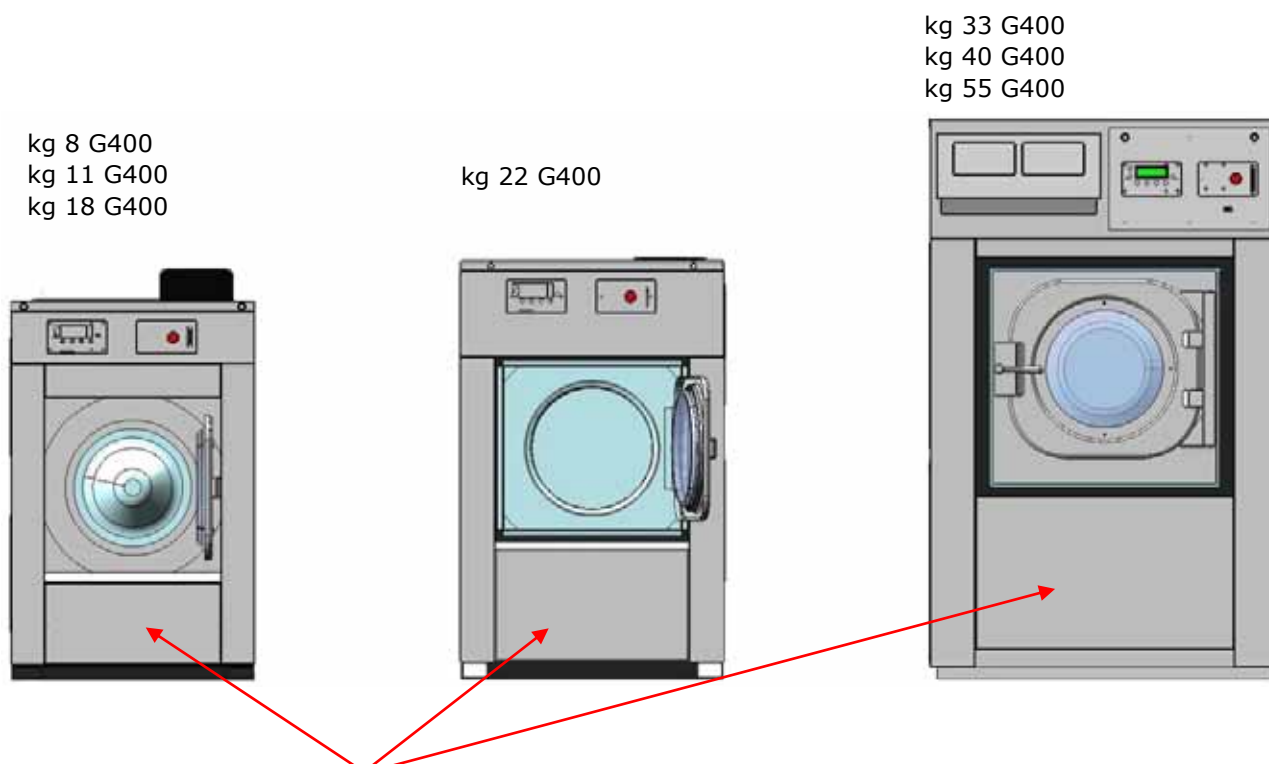
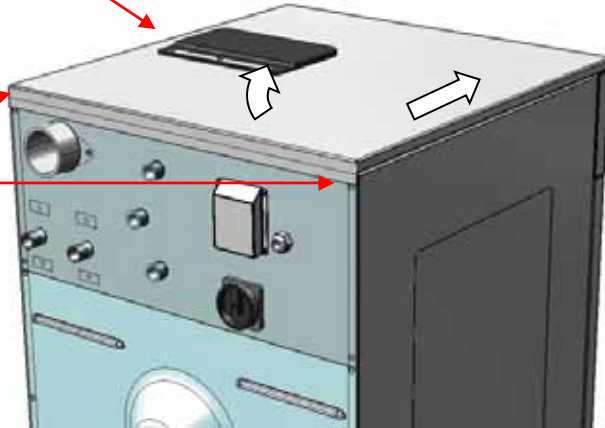


Figure 8 Open the lower front panel on all models.

OPEN THE UPPER PANELS IN MODELS KG 8, KG 11, KG 18 AND KG 22

- 1) Remove the 4 cross-head steel screws positioned under the rubber lid of the soap drawer.

- 2) Remove the 2 bolts that fix the lid to the upper back piece.



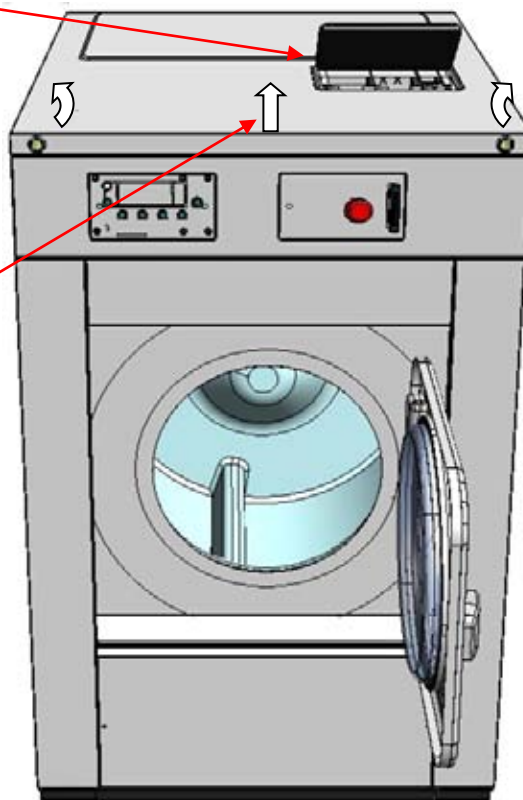
- 3) Lift the lid by a few centimetres in the rear part until it passes the edge of the upper back piece and then push forward.

Figure 9 upper panel opening in models kg 8 G400 and kg 11 G400.

- 1) Remove the 4 cross-head steel screws positioned under the rubber lid of the soap drawer.

- 2) Insert the key (horizontal) and turn anti-clockwise

- 4) Hold the keys 1 and 2, turn and push the lid firmly upwards.



- 3) Insert the key (horizontal) and turn anti-clockwise.

Figure 10 upper panel opening in models kg 18 G400 and kg 22 G400.

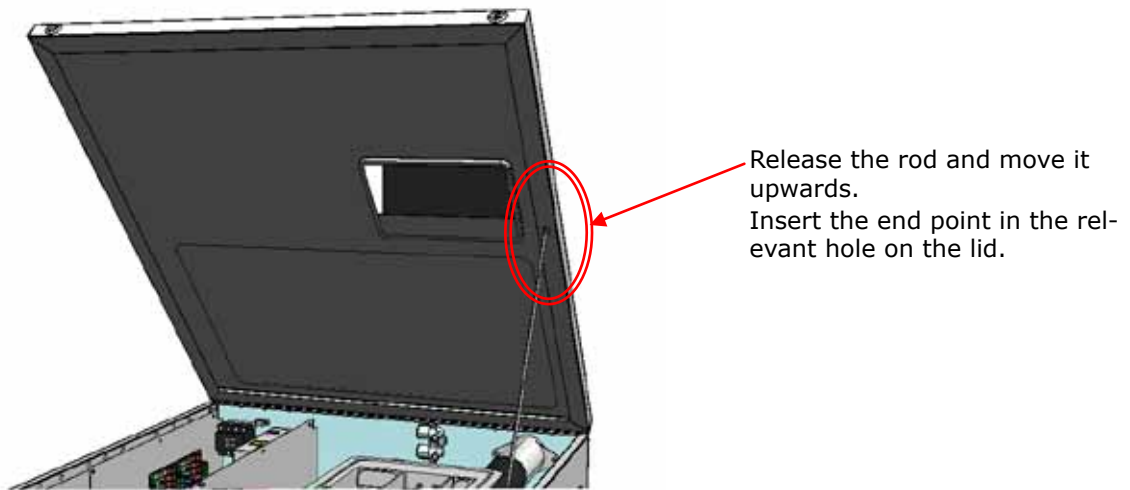


Figure 11 Positioning the upper panel support rod in the kg 18 G400 and kg 22 G400 models.

TO OPEN THE FRONT PANELS IN MODELS KG 33 G400, KG 40 G400, KG 55 G400

Open the door of the control panel (for KG 33 G400, KG 40 G400, KG 55 G400 only), introducing the supplied keys into the relevant locks and turning both anti-clockwise. Turn the panel downwards, accompanying it with the hands.

1) Insert the key (horizontal) and turn anti-clockwise.

2) Insert the key (horizontal) and turn clockwise.

3) Keep the keys in open position and lower the lid.

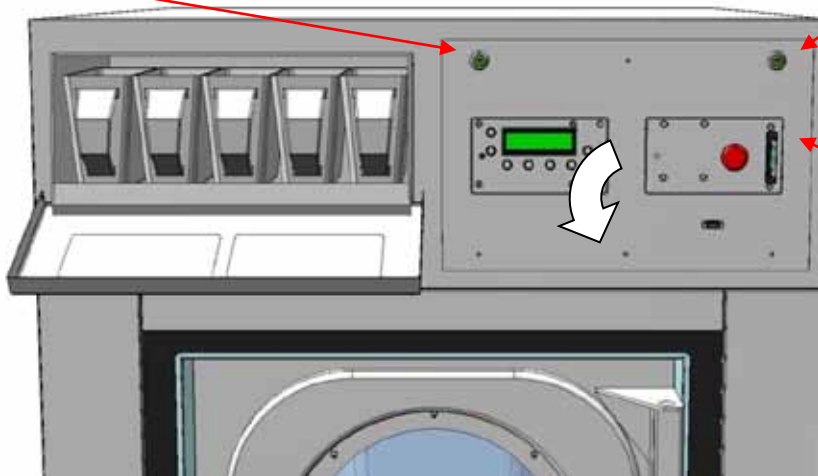
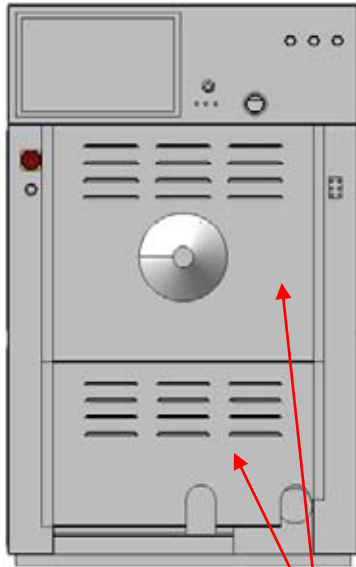


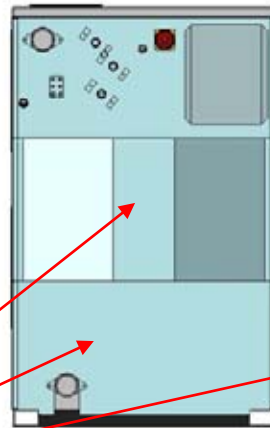
Figure 12 Opening the control panel.

TO OPEN THE REAR PANELS IN ALL APPLIANCE MODELS

kg 33 G400
kg 40 G400
kg 55 G400



kg 22 G400



kg 8 G400
kg 11 G400
kg 18 G400



Figure 13 Remove the rear panels from the appliance.

TO REMOVE THE RIGHT AND LEFT SIDE PANELS IN MODELS 22 G400, KG 33 G400, KG 40 G400, KG 55 G400

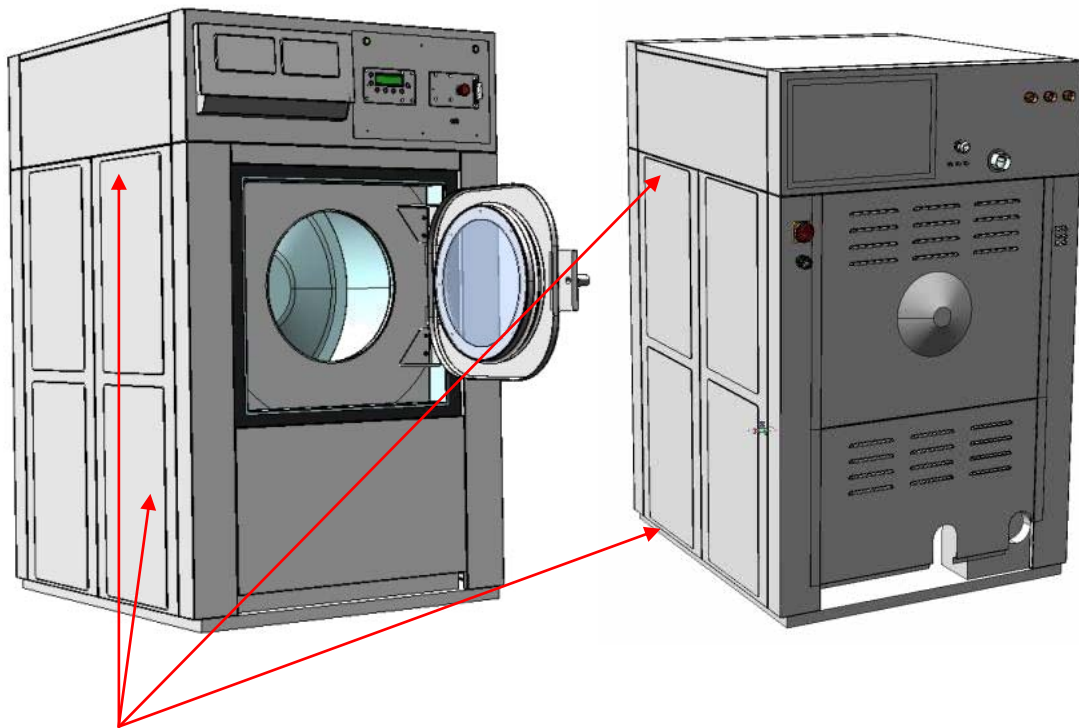


Figure 14 Remove the side panels. Operate on the upper and lower screws as described.

5.6.1 MASONRY



Attention!

- **The appliances must be positioned on a flat, level and solid surface.**
- **Consult the technical attachment regarding the distances to respect between the appliances and between these and the masonry.**
- **Wet or humid floors require the appliance to be fixed using the relevant plugs.**
- **Check that the pressure ÷ weight is equally distributed on the entire support surface.**

The appliance may have to be fixed to the floor or not, depending on the model and type of floor.

- kg 18 G400, kg 22 G400, kg 33 G400, kg 40 G400, kg 55 G400 must be fixed to the floor using the supplied plugs. If this prescription is not followed, the appliance can move and cause injury/damage to persons, animals and objects.
- kg 8 G400 and kg 11 G400 are fitted with rubber feet and are designed to work without being fixed via plugs. In this case, the floor must have a coefficient of friction greater than 0.5 (adimensional value).
In the event of a floor with lower coefficient of friction, these appliance models must also be fixed to the floor using the plugs supplied.

To fix to the floor, make holes with suitable diameter depending on the measurements present in the installation layouts given in the technical attachment.

Check that the appliance is level.

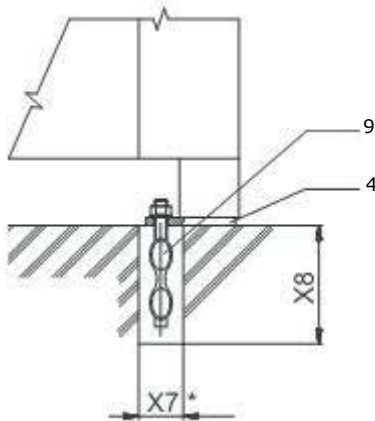
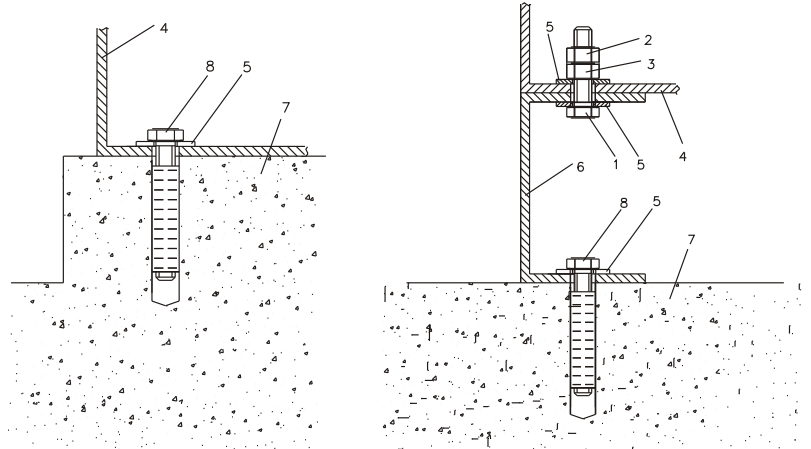
Regulate the feet (kg 8 G400 and kg 11 G400 only) positioned on all corners of the appliance or place shims between the base of the appliance and the floor (kg 18 G400, kg 22 G400, kg 33 G400, kg 40 G400, kg 55 G400 only).

Block the feet using a counter-nut in appliances fitted with feet, when the same has been levelled.

If the appliance must be moved, perform levelling and fixing again.

The tightness of the floor screws for kg 22 G400, kg 33 G400, kg 40 G400 and kg 55 G400 must be measured using a dynamometric wrench.

1. M8 screw
2. M8 safety nut
3. M8 nut
4. Machine chassis
5. Washer
6. Eventual raised chassis
7. Concrete floor
8. Anchorage bolt
9. Supplied plug



Load capacity	8 kg	11 kg	18 kg	22 kg	33 kg	40 kg	55 kg
X7 mm				40		60	
X8 mm				150		160	

5.6.2 WATER CONNECTION

The appliances are set-up for on hot water inlet (max. 90°C) and two cold water inlets, respectively hard and soft. See paragraph 3.3.

Using the table given it is possible to determine the hardness of the water according to the most used units of measurement .

Classification	mmol/dm ³	°dH (German degrees)	°fH (French degrees)	English degrees
Soft	0→1,25	0→7	0→12	0→8,75
Medium	1,25→2,5	7→14	12→25	8,75→17,5
Hard	2,5→3,75	14→21	25→37	17,5→26,3
Very hard	>3,75	>21	>37	>26,3

Set-up the wall gate valves at a distance that does not exceed the length of the pipes supplied.



Attention!

- **If soft hot or cold water is not available, set-up on or two "T" connections in a way to always supply all inlets present on the appliance.**

The average consumption of hot and cold water (total between hard and soft) is given in the table in paragraph 3.4.



Attention!

- **Do not connect the water inputs with rigid pipes.**
- **Only use the supplied pipes.**
- **Rigid piping is an origin of problems due to the vibrations generated by the appliance during normal functioning.**
- **The KG 8 G400, KG 11 G400, KG 18 G400 and KG 22 G400 model appliances have plastic water supply connections: follow the procedure below for correct closure of the flexible hose lock-nut.**
 - **Tighten the nut manually.**
 - **Make a quarter of a turn with a face spanner.**
- **When assembly has been completed, check that there is no narrowing or crushing of the hoses used.**

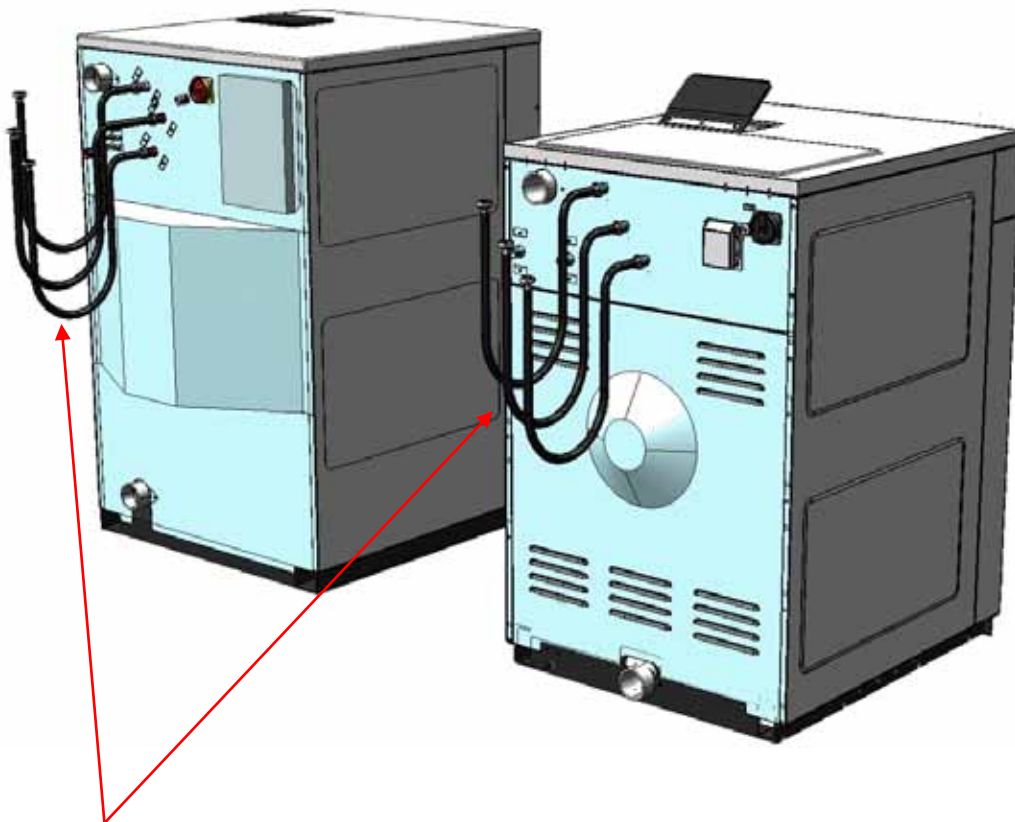


Figure 15 kg 8 G400, kg 11 G400, kg 18 G400, kg 22 G400 models water connection

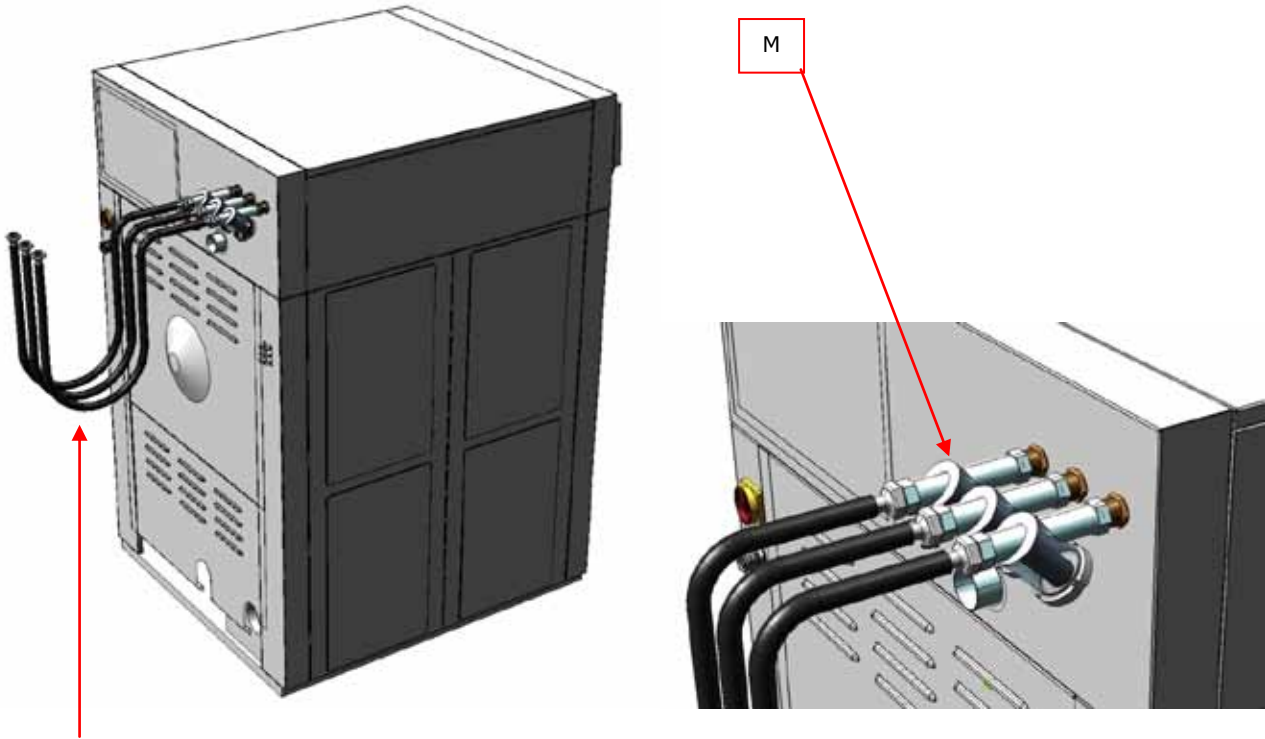


Figure 16 kg 33 G400, kg 40 G400, kg 55 G400 models water connection
Place the filters indicated with the letter M in the figure, between the water supply pipe and the load electrovalves. Ca be found among the appliance suppliesinside the drum.



Attention!

- **To check the correct tightness of the load pipe lock-nuts and the filters where present, open the water gate valve slowly and check for the presence of leaks.**
- **If leaks should occur, close the lock-nut further and check again.**

5.6.3 STEAM AND CONDENSATE CONNECTION (ONLY FOR APPLIANCES WITH STEAM HEATING)

The appliances with steam heating are set-up with a M 3/4" threaded inlet especially for the steam, which must be dry saturated.
If the appliance has been requested for heating via indirect steam, a M 3/4" threaded connection is also set-up for the collection/recovery of condensate.
The pressure of the inlet steam must be between 50 Kpa and 600KPa.
For steam inlet and condensate collection, refer to the figure (steam inlet label E, condensate collection label F). In all cases consult the appliance plate data.

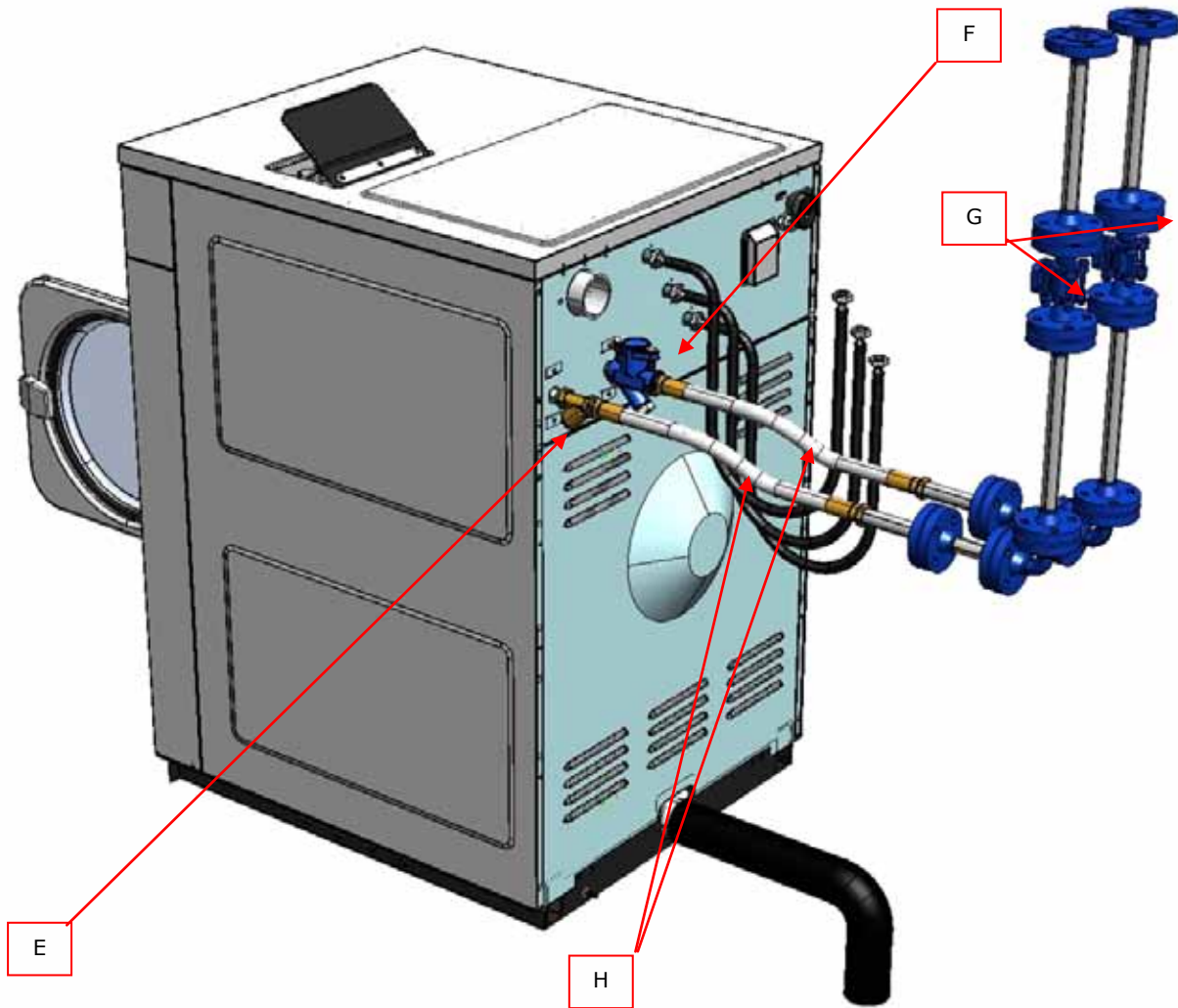


Figure 17 Steam inlet and condensate drain connection (where present).

The pressure recommended for excellent appliance performance is between 400KPa and 600KPa.



Attention!

- For pressure supplies outside of the values indicated, contact the manufacturer or the local dealer.
- Cover the flexible steam inlet hose and/or condensate outlet hose supplied and/or using the Teflon sheath supplied, H in figure. This is so the operator or maintenance technician never come into contact with steam or condensate hoses during their normal activity. These hoses re normally very hot and can cause burns.
- The steam intake and condensate recovery pipes must be installed with material able to resist the supply pressure (max 600 KPa) and temperature of 170°C. The manufacturer is not liable in the event of damage due to materials used during installation of the appliance that are not coherent with these parameters.
- When assembly has been completed, check that there is no narrowing in the hoses used.

Set-up two gate valves for both connections (steam and optional condensate output). These are indicated in the figure with code G and used to isolate the appliance in the event of maintenance or breakdown.

The filter supplied with $\frac{3}{4}$ " F/F threading must be inserted between the steam gate valve and the appliance inlet: this filter will stop impurities and must be cleaned at least once every month. In the event of a new steam distribution system, it is highly probable that the mechanical filter must be cleaned daily for the first days of functioning.

If the steam appliance is subject to controls by local or national authorities (ISPESL for Italy) all ISPESL must always be available in the places where the appliance is installed.

5.6.4 DRAIN PIPE CONNECTION

All appliances are fitted with a drain pipe connection for the water during the washing process. The 3" rubber elbow and two metal straps are supplied for fitting the appliance drains to the sewer system. Refer to the figure to identify the drain pipe fitting.

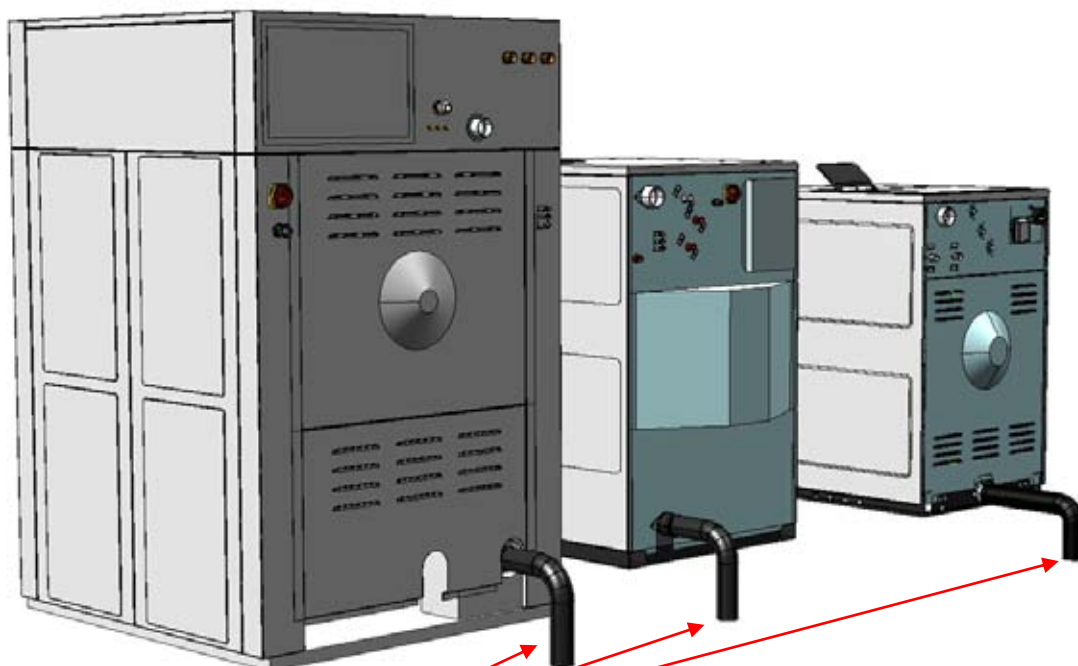


Figure 18 Drain elbow connection supplied with all models.

Make sure that the distance between the appliance drain connection and the floor drain is not longer than the length of the supplied drain elbow.

The water is drained via a motorised valve, which remains open in when there is no voltage present.

Some special versions envision a second drain for the recovery of the water in some washing phases.

Follow the particular instructions supplied with the special version.

Maximum drain flow rate for every appliance; 3.5 litres/second.

If several appliances are connected to the same pipe, the diameter of the latter must be increased at the outlet of every engagement. In particular, for one appliance use a 3" (75mm) drain pipe and for two appliances the pipe must be 4" (100 mm).

Finally, for three appliances, the pipe must be 5" (125 mm).



Attention!

- **The drain pipe must always be lower than the appliance outlet and have a diameter that is not smaller than the pipe supplied.**
- **The drain pipe must resist temperature of 90°C.**
- **Position a siphon between the pipe supplied and the drain pipe.**
- **Make sure there is no narrowing.**

5.6.5 ELECTRIC CONNECTIONS



Attention!

- **Installation must be installed according to the manufacturer's instructions by professionally qualified and certified staff, in compliance with Standards regarding electric plants in force in the individual countries both at national and local level.**
- **Incorrect installation can cause injury to persons and animals and damage to objects and the environment in general, for which the manufacturer is not liable.**

Earthing techniques.

There are different types of earth systems on the market but for all systems the objectives are identical:

- Limit the potential of the active wires with respect to the earth in normal functioning mode.
- In the event of an isolation defect, contain the voltages between the masses and the earth.
- To allow the intervention of the protection devices in order to eliminate the fault to earth.
- Limit raising of the potential due to faults originating from the medium voltage mains network.
- Contain potential increase when the atmospheric discharge affects the installation or the power supply network.

Some examples.

NATION	BT public distribution networks (neutral point connection).	User systems powered at low voltage.	Specific earth plants.
GERMANY	TN-C	TN-C and TT	YES
AUSTRALIA	TN-C	TN-C	YES
JAPAN	TT	TT	YES
UNITED KINGDOM	TN-C	TN-C or TN-S	NO
IRELAND	TN	TT	YES
ITALY	TT	TT	YES
BELGIUM	TT	TT	YES
SWITZERLAND	TN	TN-C or TN-S	YES
FRANCE	TT	TT	YES
CHINA	TT	TT	YES
SPAIN	TT	TT	YES
PORTUGAL	TT	TT	YES
NORWAY	IT	IT	NO

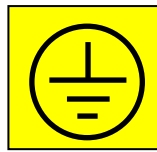


Attention!

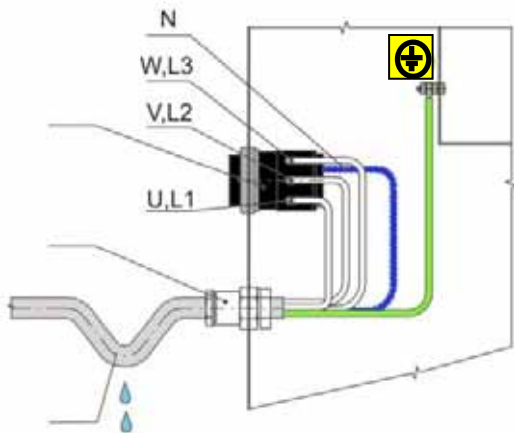
- **The appliance, subject of this manual, is set-up for a TT earth system.**
- **Certification of the system must be performed by a qualified technician who verifies and certifies its correct design and functioning.**
- **For appliances with steam supply, make sure that the electric connection cable cannot come into contact with the steam supply pipe of condensate collection/recovery pipe.**

There is a clamp on the rear part of the appliance for the connection of the earth wire, which must be performed in compliance with the Laws in force. The manufacturer declines any responsibility when this accident-prevention standard is not respected.

Regarding this, identify the symbol given below.



This clamp must be connected to the same clamp of the other appliances present in the vicinity and must be then connected to the earth connection via a protective earth circuit alternative to the earth wire supplied with the socket.



Before introducing the cable into the appliance, check that the cable has a bend that is lower than the appliance inlet or terminal board, in a way that drops of condensation onto the cable do not come into contact with the electrical connections, thanks to this cable.

Power the appliance in compliance with the plate data of the same and with the distribution system present.

Use the cable gland mounted on the rear panel of the appliance to insert the power supply cable and, after having connected the cables to the isolating switch supplied with the appliance, block the cable.

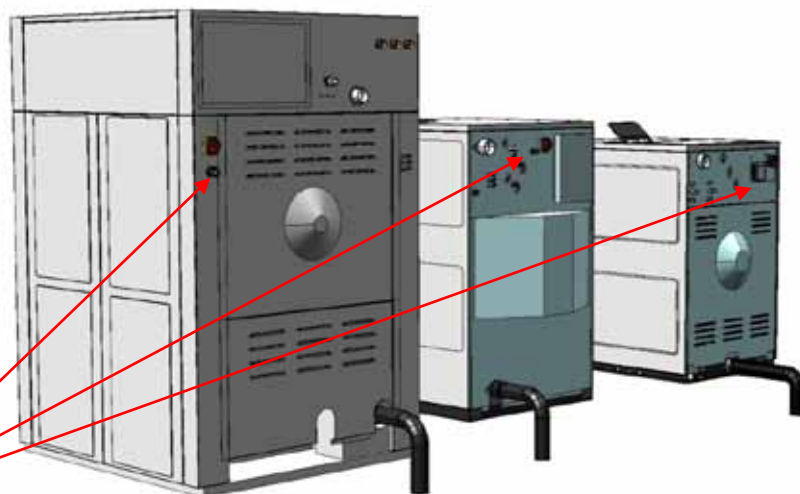


Figure 19 Position of the cable gland for insertion of the electric power supply cable on all models.

PARTICULARITY OF THE ELECTRIC CONNECTION IN THE KG 8 G400, KG 11 G400, KG 18 G400, KG 22 G400 MODELS.



Attention!

- During the connection of several kg 8 G400, kg 11 G400, kg 18 G400 models, identify the phase that powers the inverter (on these models the inverters have single phase power supply) and connect them alternately onto the 3 phases available, in a way to distribute the load equally.
- Refer to the image to alternate the phases in an equal manner.

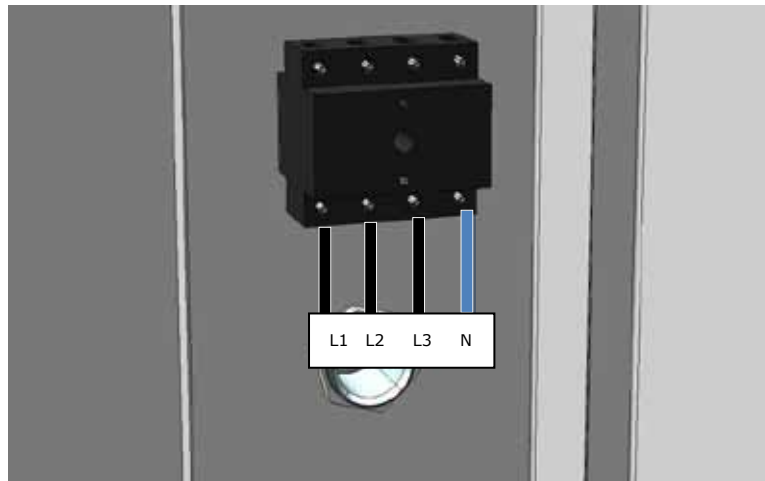


Figure 20 Internal view of the appliance, which shows the connection of the electric power supply network to the isolator switch clamps.

5.7 REMOVAL OF THE TRANSPORT BRACKETS

To prevent damage to the appliance structure during transport, the drum is blocked using clamps on the front part (1 clamp) and on the rear part (1 clamp for kg 8 G400 and kg 11 G400, 2 clamps for kg 18 G400, kg 22 G400, kg 33 G400, kg 40 G400 and kg 55 G400). To access these clamps, remove the panels as shown in paragraph 5.6 and remove the clamps highlighted in figure 31 indicated with 1 (front clamp), 2 (rear clamps) and 3 panels.



Attention!

- Remove the transport clamps before starting the appliance.
- Starting the appliance with the transport clamps mounted can cause damage to the appliance itself and injury to personnel.
- Only remove the transport clamps.
- The appliance cannot be transported if the transport clamps are not fitted.

For transport reasons, the appliance is blocked and this prevents any movement of the washing unit.

After having removed the transport clamps, re-mount the previously removed panels. Keep the transport clamps (pos.1, 2) for any future handling of the appliance.

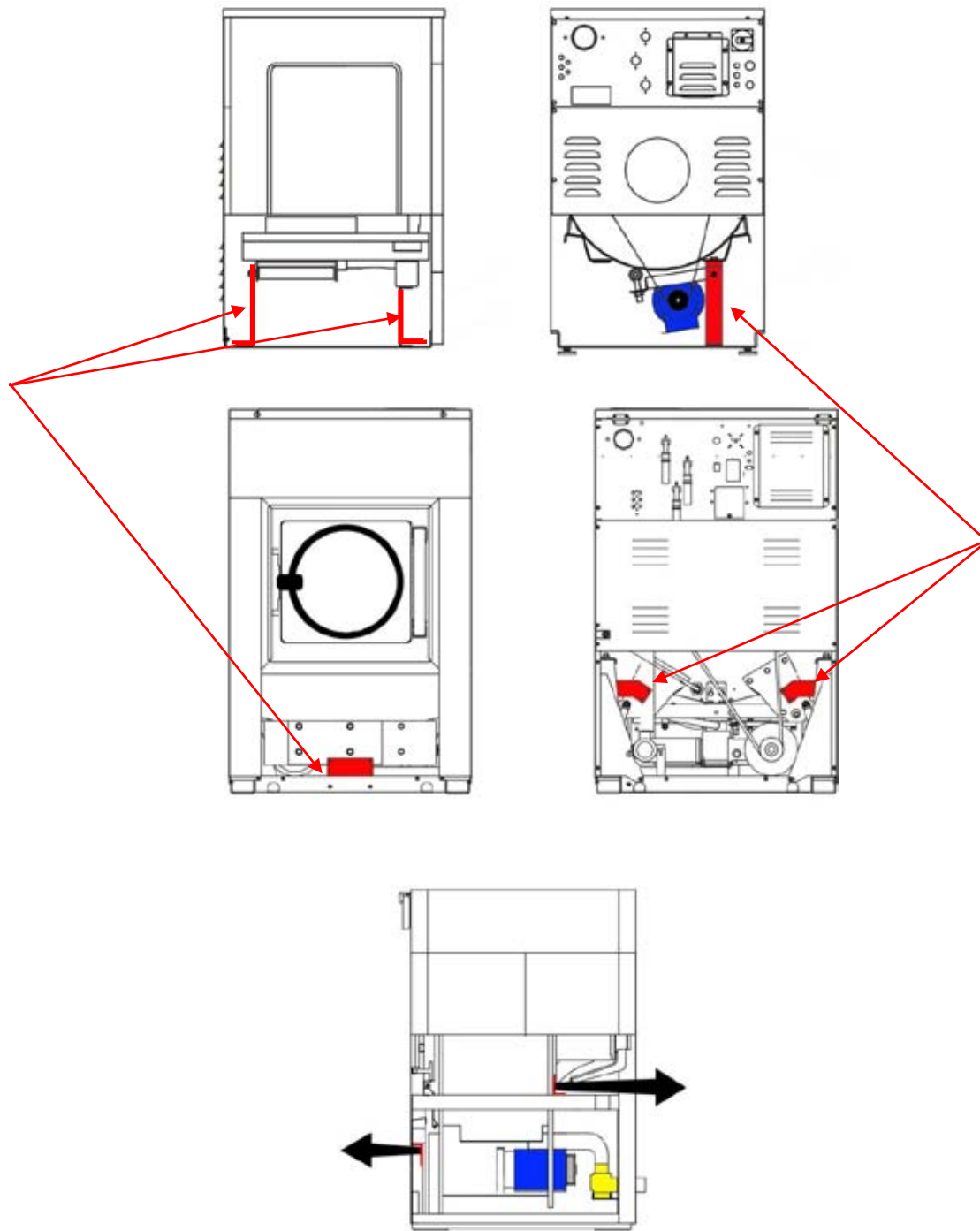


Fig. 31 position of transport clamps



Attention!

- **DO NOT start the appliance or regulate the unbalancing micro switch before these clamps are removed.**

5.8 REGULATION OF UNBALANCING MICRO SWITCH ON ALL MODELS

To access the unbalancing micro switch, access the inside of the appliance: below find the indications on how to proceed depending on the type of appliance to be calibrated.

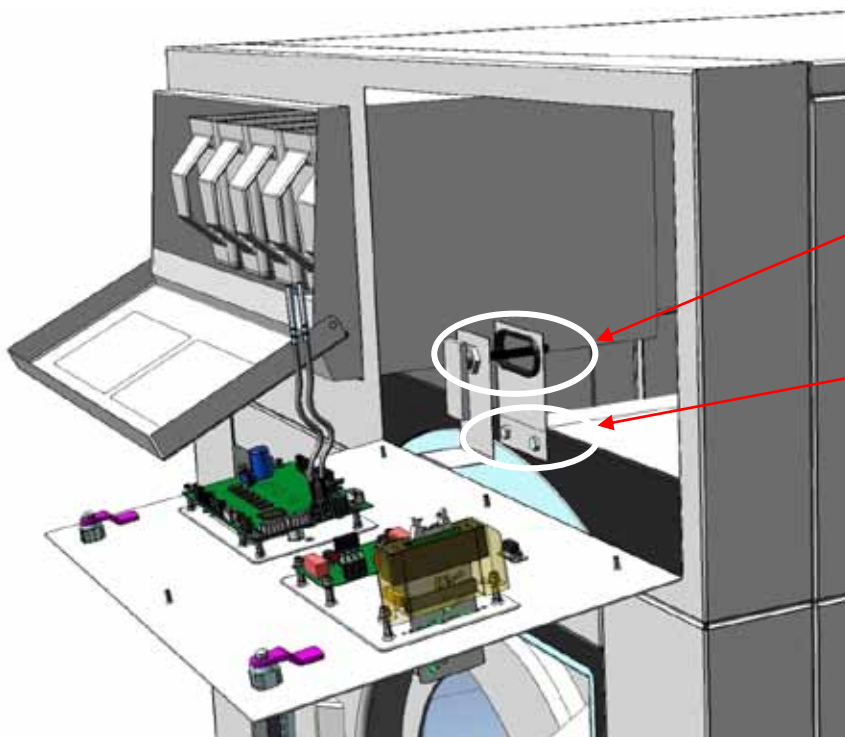
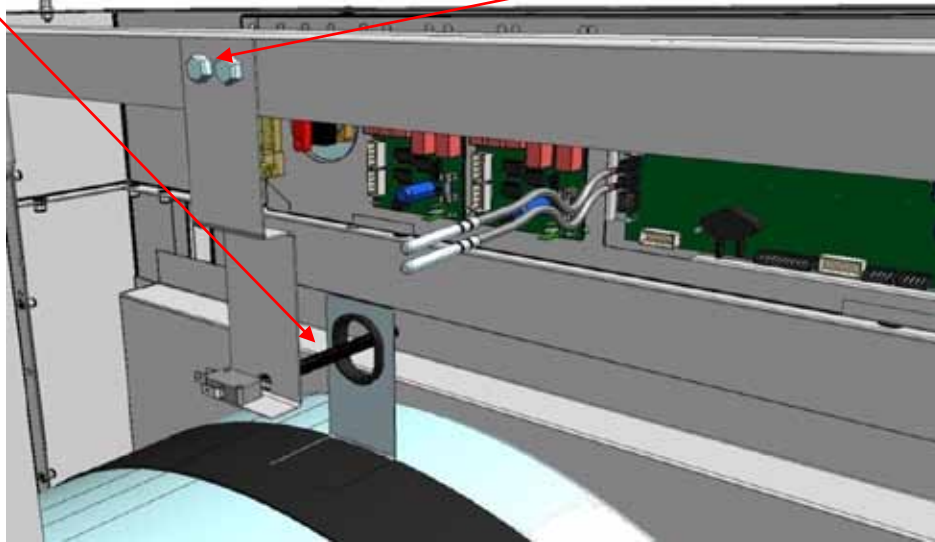
OPEN THE UPPER PANELS IN KG 8, KG 11, KG 18 AND KG 22 MODELS

Proceed as described in 5.6 to open the appliance panels and obtain access to the area where the unbalancing micro switch is found.

The unbalancing micro switch intervention rod must be regulated at the centre of the mobile window.

Operate on the screws to regulate the position of the unbalancing micro switch rod.

Figure 22 Correct position of the unbalancing micro switch in the kg 8 G400, kg 11 G400, kg 18 G400, kg 22 G400 models.



The unbalancing micro switch intervention rod must be regulated at the centre of the mobile window.

Operate on the screws to regulate the position of the unbalancing micro switch rod.

Figure 23 Correct position of the unbalancing micro switch in the kg 33 G400, kg 40 G400, kg 55 G400 models.



Attention!

- During periodic maintenance, also control the correct functioning and positioning of the unbalancing micro switch.

5.9 AIR-BREAK

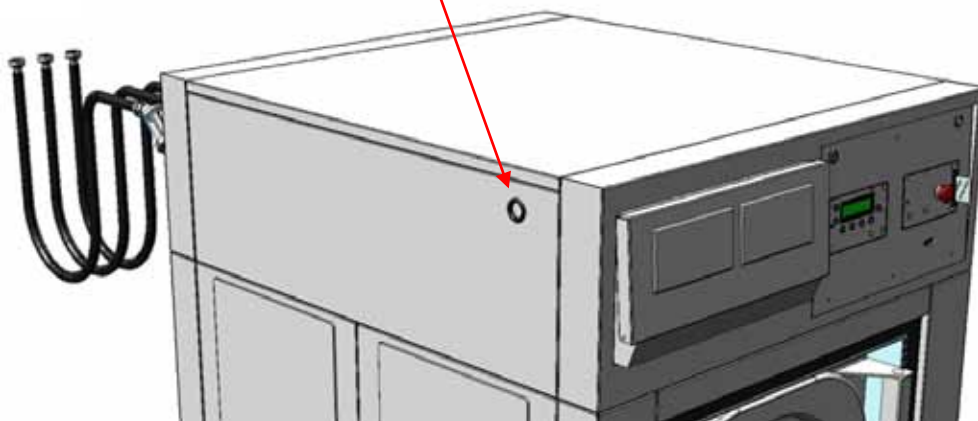
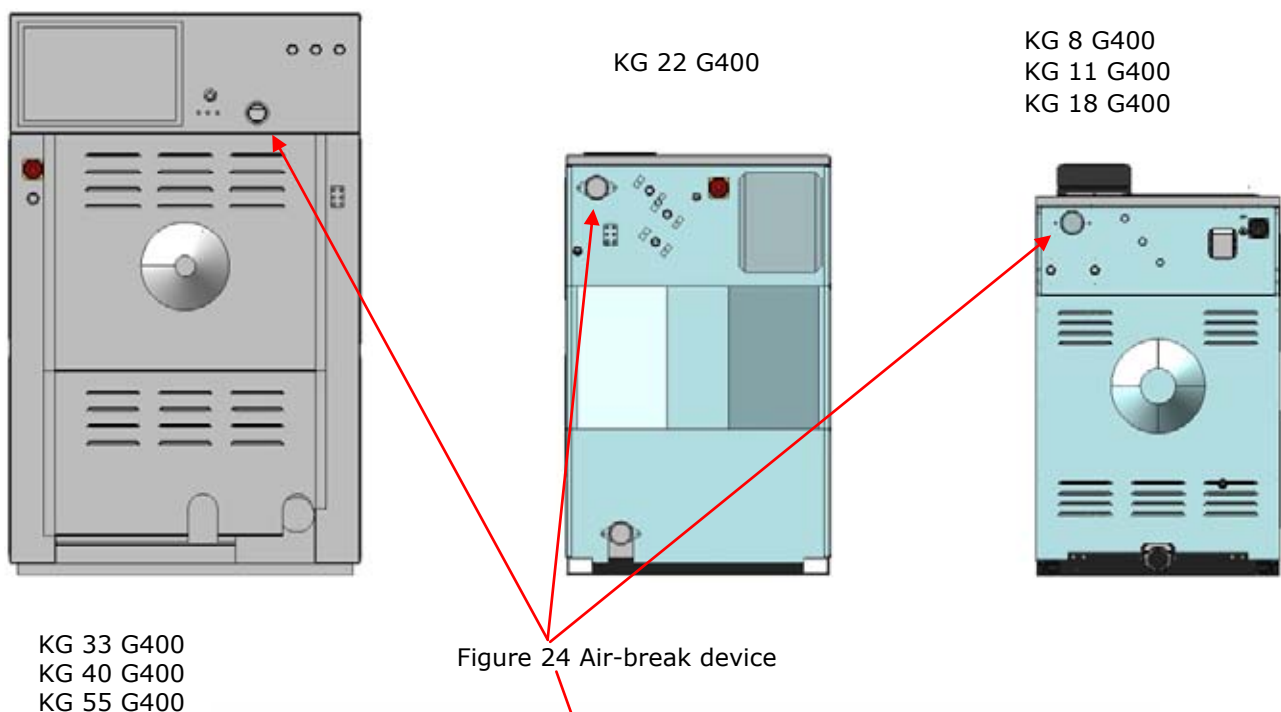
The appliance is fitted with the "Air-Break" device, which in the event of depressions in the water supply network prevents the return of non-drinkable water (it could be polluted by the soap) into the water network.

This device envisions a rear or side outlet (see figure) from which, vapours may escape during heating.

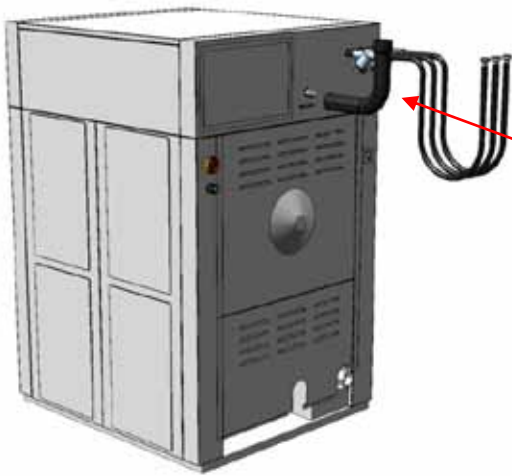
This device is also necessary for correct readings of the water level.

Never plug this outlet (the vapours created during heating can create pressure and falsify the level of water measured).

The vapours that escape during the washing program can reach very high temperatures.



A 60 mm diameter rubber elbow is supplied with KG 33 G400, KG 40 G400 and KG 55 G400 appliance models for fitting the vent valve to a ventilation channel. If a ventilation channel is not available, the pipe must be aimed upwards and fixed with the strap, which is also supplied.



Air -break pipe connection in the kg 33 G400, kg 40 G400 and kg 55 G400 models

5.10 VENTILATION

The appliance has forced ventilation that cools the inverter (drum speed regulator). This ventilation is positioned on the rear-upper part of the appliance. The ventilation inlet must not be obstructed. Refer to the figure to identify the position of this ventilation.

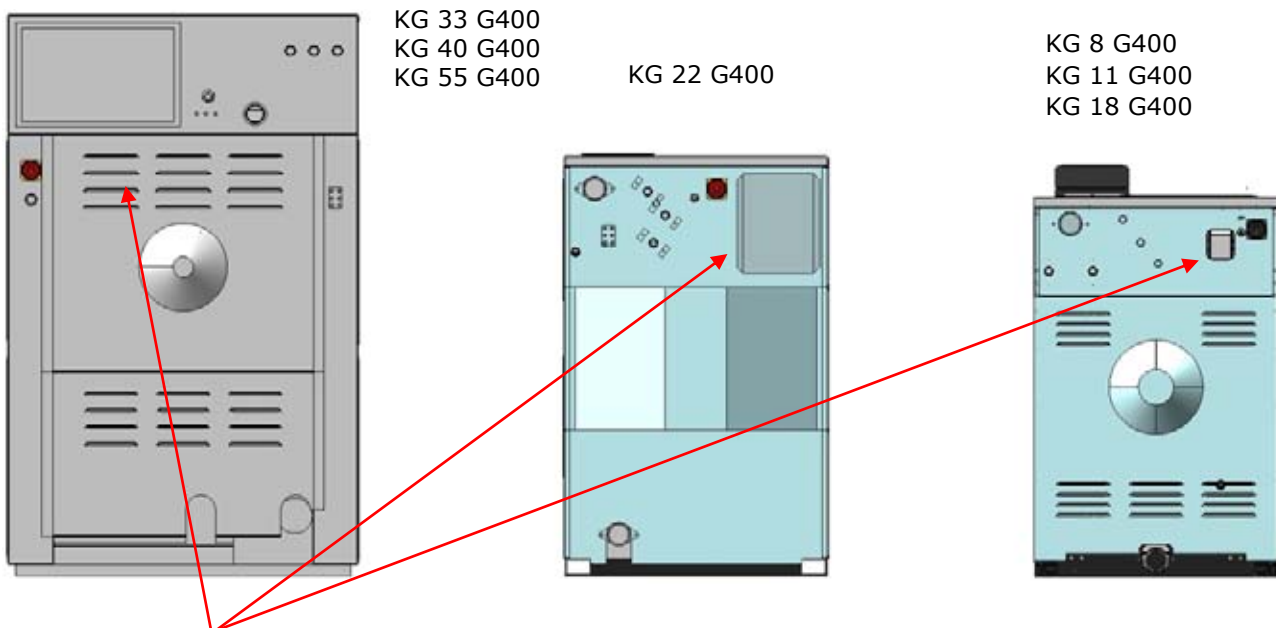
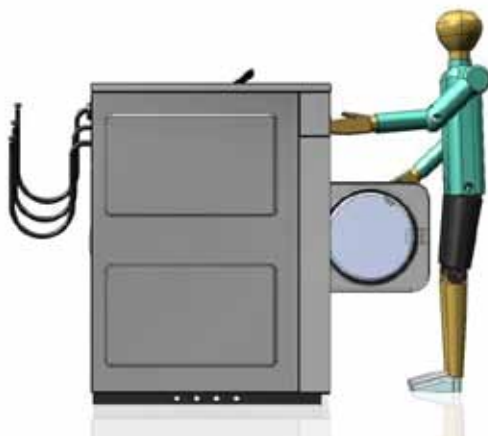


Figure 25 Position of the air vent necessary for forced cooling of the inverter.

5.11 ERGONOMIC INSTALLATION OF THE APPLIANCES



On installation of the appliances, pay attention to the ergonomic aspect.

The appliances must be positioned in a way that they are easy to manage from a programming and laundry loading/unloading point of view.

If necessary, install the appliances on a cement baseboard in a way to raise them or set-up a platform in a way to allow the operator to always interact easily with the appliance.

5.12 INSPECTION

After the appliance has been installed, a functioning check must be performed.

Check:

- Fixing the appliance to the floor
- Levelling the appliance
- Connection to the drain
- Connection to the water drain pipes
- Connection of the steam and condensate collection/recovery pipes (appliances with this type of heating)
- Removal of the transport clamps
- Centring of the unbalancing micro switch
- Connection of the vent pipe (on KG 33 G400, KG 40 G400, KG 55 G400 only)
- Correct electric connection
- Connection of the equipotential clamp

Therefore:

- Open the water gate valves and, if necessary, steam and condensate drain (on appliances with steam heating).
- Check that there are no leaks present on the load pipe connections.
- Power the appliance via the wall isolating switch and differential, the switch with interlock on the socket.
- Power the appliance via the isolating switch supplied with the appliance.
- Check the drum is empty
- Put a lid on the dispenser to prevent possible sprays of water and soap escaping during these checks, which must be performed without lid.

Carry out:

- The calibration operation according to instructions in the FUNCTIONING paragraph and without laundry!
- The test cycle according to the instruction in the FUNCTIONING paragraph and without laundry!

When these activities have been concluded, perform a high temperature washing cycle using suitable cloths and soap.

This is to remove traces of products used during the mechanical processing of the appliance. During the high temperature washing cycle. Check for any traces of water on the floor or inside the appliance.

Activate the unbalancing micro switch manually during a spin and check that the latter is interrupted.

At the end of the cycle, check that all soap tanks are clean and no traces of soap are left in any of the compartments.

When these checks have been performed with positive result, reposition all protections removed. At this point, the appliance can be used by the operators.



Attention!

- **The warranty does not cover damage deriving from incorrect installation.**

5.13 STORAGE AND PROTECTION DURING INTERVALS BETWEEN NORMAL USE

In the event of appliance standstill for long periods, follow the indications given below:

- Remove the power supply to the appliance.
- Disconnect the socket.
- Close the water gate valves (all) and the steam gate valves if the appliance should have this type of heating.
- In the event of heating with indirect steam, close the condensate drain/recovery gate valve. Disconnect the drain/condensate recovery pipe. Drain the condensate present in the appliance. Re-connect the pipe when this operation is finished.
- Dry the drum, the door gasket and the dispenser drawer.
- Remove soap residues.
- Leave the door open and protect the appliance possibly with a plastic bag that is supplied with the same.
- Keep the appliance in a closed place and with envisioned environmental conditions.

5.14 RE-PACKAGING TO PREVENT DAMAGE DURING TRANSPORT



Attention!

- **Use the original packaging and bed if the appliance must be transferred.**

5.15 ATTRIBUTION OF THE INFORMATION (USERS, OPERATORS, MAINTENANCE EXPERTS)



Attention!

- **The instructions contained in this manual must be distributed to all personnel that interact with appliance in any way.**

5.15.1 LOCATION OF THE INSTRUCTIONS

These instructions are supplied with the appliance and are attached to the packaging in an adhesive bag, which identifies the content.

This manual must accompany the appliance from receipt until it is dismantled.



Attention!

- **Any person using this appliance must read this user manual.**
- **The appliance must only be used by trained persons.**
- **Keep this manual in a place that is easily accessible for future consultation.**
- **If this appliance is transferred to another owner, this manual must accompany the appliance.**

5.16 WARRANTY

The warranty has duration of twelve (12) months from the date of purchase of the appliance or an integral part of the same.

The warranty consists in the replacement of any faulty parts for ascertained manufacturing causes and applied directly to your dealer.

Labour is always at the purchaser's expense as are delivery and packaging costs as are the risks of transport.

The warranty is subject to return of the pieces damaged in FREE PORT and the simultaneous communication of the data regarding the model, the serial number and the fault of the appliance on which the detail was mounted.

The warranty is not applied to appliances that have been damaged due to negligence, incorrect connection, unsuitable installation, failure to comply with mounting and user instructions and however altered by unauthorised staff. It is also not applied if the serial number has not been altered, deleted or removed or is not known.

The warranty does not cover the following material:

- Parts subject to normal wear such as belts.
- Membranes of the electrovalves, gaskets and rubber parts in general.
Electric and electronic elements such as motors, coils, resistances, circuit board, inverters etc.