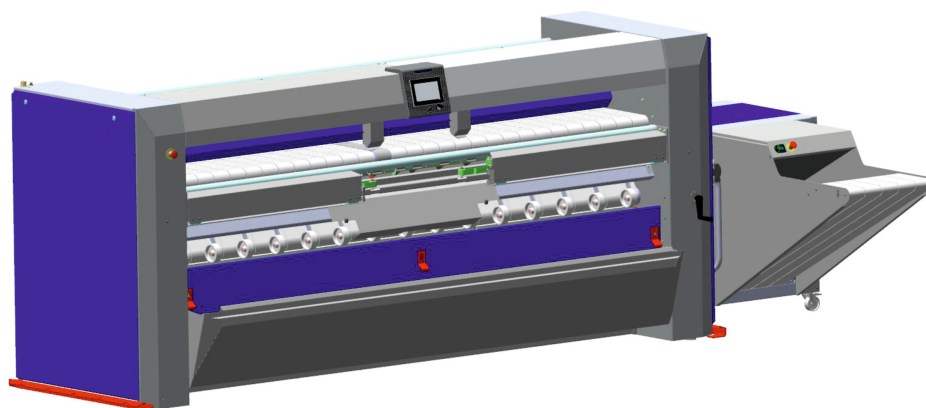


Installation manual

Ironers

IV648xxFFS Vibe



Original language



Electrolux
PROFESSIONAL

Contents

Contents

1	General instructions :	5
1.1	Environmental information	5
1.2	Disposal information	6
1.2.1	Disposal of appliance at end of life	6
1.2.2	Disposal of packing	6
1.3	Preliminary instructions	6
1.3.1	Precautions for use	8
1.3.2	Symbols	9
1.3.3	Personal protection equipment	10
1.3.4	Emergency stop	10
1.3.5	Steam heating first use	11
1.4	Data plate explanation	12
1.5	Note about the A.C. power	16
1.6	Locking and tagging procedure	17
1.7	Working place lighting	19
1.8	Connectivity of the ironer	20
2	Handling	22
2.1	Unpacking	22
2.2	Lifting with a fork-lift truck	22
2.3	Lifting with handlings straps	24
2.4	Moving along the ground	24
2.5	Handling the stacker	24
3	Installation :	25
3.1	Installation	25
3.1.1	How to remove the pallet :	27
3.1.2	Levelling the machine :	33
3.1.3	Machine with optional suction feeding table	33
3.2	Remove of the transport locks fitted	34
3.2.1	Transport locks fitted inside the casing of the feeder :	34
3.2.2	Transport angles :	35
3.2.3	Setting of flap :	36
3.3	Connection of the stacker	38
3.4	Electrical connection	40
3.4.1	Connection diagrams for the control circuit power supply (T2)	45
3.4.2	Operating inspection	45
3.5	Connection of the ironer evacuation system :	47
3.5.1	Fresh air inlet	48
3.5.2	Evacuation duct	49
3.5.3	Specifications :	49
3.5.4	Exhaust pipes pressure control :	50
3.5.5	Evacuation system if several dryers are connected to a common evacuation duct (except gas heating machines):	50
3.6	Steam and condensate connections :	52
3.6.1	Steam connection DN 20 (3/4" BSP) :	53
3.6.2	Condensate connection DN 10 (3/8" BSP) :	53
3.6.3	D.E.S.P. approval	54
3.7	Gas connection :	55
3.7.1	Gas supply DN 20 (3/4" BSP) :	56
3.7.2	Determinate the gas type :	57
3.7.3	Gas valve setting	57
3.7.4	Injectors setting	57
3.8	Compressed air connection	58
3.8.1	Compressed air standard ISO 8573-1	58
3.8.2	Standard connection	58
3.8.3	Air compressor	60
3.9	Check before use	61
3.9.1	Positioning roller rotation check	61
3.10	Before first use	62
3.10.1	Power on	62
3.10.2	BACKUP OF THE SETTINGS VIA USB key :	68
4	Appendices	70
4.1	Packaging-Weight	71

Contents

4.2	Technical characteristics.....	71
4.3	Supplies.....	75
4.4	Sound level	75
4.5	Electric power supply :	76
4.5.1	TABLE 1 (in accordance with EN standard 60204–1).....	76
4.5.2	TABLE 2 correction factors for different ambient temperatures :	76
4.5.3	TABLE 3 correction factors for different cable insulating materials :	76
4.5.4	TABLE 4 B2, C and E correction factors for cable grouping :	77
4.5.5	Calculation	77
4.5.6	Electrical Standard characteristics for IV6xxxxFFS.....	77
4.6	Gas setting characteristics IV6 48xx :	78
4.6.1	Legend of symbols used :	79
4.6.2	Testing pressure :	80
4.6.3	Setting gas adjustment :.....	81
4.6.4	Adjustment and checking of the outlet pressure	83
4.6.5	Tables of Correspondences :	85
4.7	Explanation of washing symbols	87
4.7.1	Washing	87
4.7.2	Bleaching	88
4.7.3	Drying	88
4.7.4	Ironing	88
4.7.5	Dry or water cleaning	89
4.8	Conversion of measurement units	90

The manufacturer reserves the right to make changes to design and component specifications.

1 General instructions :



Caution



All the illustrations in this manual do not necessarily represent your machine, but the action shown is always compatible with your product!

1.1 Environmental information

Concerned by providing the end user with useful and necessary environmental information, we wish to precise:

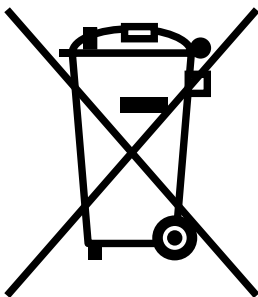
- Data about energetic consumptions, wastes (atmospheric and liquid) and sound level are indicated in the paragraph «Technical characteristics».
- Foreseeing its recycling, this machine is fully dismantable.
- This machine is free from any asbestos.
- In conformity with French regulations.
- In the other countries, we recommend that you comply with the legislation in force in the country where the machine is installed.
- In France, all owners of packing waste producing a weekly volume below 1100 litres can forward these to the local collection and treatment department. If exceeding this volume, the owners of packing waste will ensure their valuation by reuse, recycling or, any other action aiming at producing reusable materials or energy... or provide them contractually to a certified intermediate authorised to transport, trade or broke waste.

Therefore, this forbid:

- land filling raw waste;
- open air burning or incineration without energy collection.

- Packaging of our machines are according with the french legislation related to environment requirements.

For additional information, do not hesitate to consult with our environmental department.



Scrapping of machine

When the machine is no longer to be used, it must be submitted to a recycling facility for destruction.

The majority of the components in the machine can be reused, but it also contains other materials that must be taken care of in the correct way.

Therefore, never mix the machine or its parts with domestic waste as this may lead to health hazards or damage to the environment.

1.2 Disposal information

1.2.1 Disposal of appliance at end of life


Before disposing of the machine, make sure to carefully check its physical condition, and in particular any parts of the structure that can give or break during scrapping.

The machine's parts must be disposed of in a differentiated way, according to their different characteristics (e.g. metals, oils, greases, plastic, rubber, etc.).

Different regulations are in force in the various countries, therefore comply with the provisions of the laws and competent bodies in the country where scrapping takes place.

In general, the appliance must be taken to a specialised collection/scrapping centre.

Dismantle the appliance, grouping the components according to their chemical characteristics, remembering that the compressor contains lubricant oil and refrigerant fluid which can be recycled, and that the refrigerator and heat pump components are special waste assimilable with urban waste.



The symbol on the product indicates that this product should not be treated as domestic waste, but must be correctly disposed of in order to prevent any negative consequences for the environment and human health. For further information on the recycling of this product, contact the local dealer or agent, the Customer Care service or the local body responsible for waste disposal.

Note!
When scrapping the machine, any marking, this manual and other documents concerning the appliance must be destroyed.

1.2.2 Disposal of packing

The packing must be disposed of in compliance with the current regulations in the country where the appliance is used. All the packing materials are environmentally friendly.

They can be safely kept, recycled or burned in an appropriate waste incineration plant. Recyclable plastic parts are marked as following examples.

	Polyethylene: <ul style="list-style-type: none">• Outer wrapping• Instructions bag
	Polypropylene: <ul style="list-style-type: none">• Straps
	Polystyrene foam: <ul style="list-style-type: none">• Corner protectors


1.3 Preliminary instructions

Before any use, it is compulsory to read the instruction handbook.


Users must have learnt how the machine operates.

In order to prevent any risk of fire or explosion, flammable products should never be used to clean the machine.

This machine should be installed in conformance to the health and safety regulations, and only used in a sufficiently aerated area. Check the instructions before installing or using the machine.



Caution



The mechanical and electrical installation of the machine should only be done by qualified personnel.



Do not use the machine unless it is plugged into a correctly earthed power socket complying with standards in force.



Caution



This device must not be installed in places accessible to the public.



Warning



Make sure the machine is disconnected from the mains before repairing or servicing.



Important



Any repairing or maintenance operation should be carried out by a specialist.



Important



After the installation, Send back the commissioning form ,signed document, to ElectroluxProfessional to validate the warranty of the product.



Caution



Disconnect all sources of energy and let the ironing cylinder cool down before any intervention on the machine. The high temperature of the ironing cylinder may cause serious burns ; avoid touching the hot surfaces.



Danger



Never iron if the finger protection does not function.



Important



The machines comply with the European Directive EMC (ElectroMagnetic Compatibility). They have been tested in laboratory and approved as such. It is so prohibited to add wires or non shielded electric cables in the cabinets, strands or cables'troughs.



Important



**It is specially advised not to install the machine on a synthetic floor covering. The frictional electricity may hinder the good working of the machine
Under no circumstances should a gas-heating machine be installed in a building which includes a dry-cleaning machine.
This is particularly important for your safety and that of others. The consequence is an immediate cancellation of the warranty.**



Important



When using the machine in automatic folding mode, you could catch your fingers when the sheet removal actuator ascends/descends with the anti-static device and in folding arm movements. Do not operate on the machine without powering down beforehand.



Caution



For your own safety, it is prohibited and dangerous to solder the ironing cylinder. If a leak occurs, never try to repair it yourself. Ask our technical departments for advice.



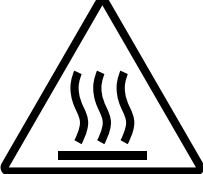
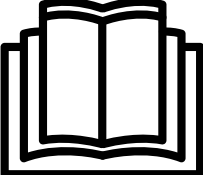



The machine can work without the protective casing when the electric supply is not cut off. Interlock the main isolating switch with a padlock.
Close the steam inlet valves.
If you detect gas smells, turn off the gas, open the windows, do not activate any switch and warn the maintenance service.
The warranty might be cancelled if these instructions are not complied with.

1.3.1 Precautions for use








- The machine should not be used by children.
- This ironer must be used exclusively for textiles appropriate for machine ironing, which have been previously and exclusively washed in water.
- This machine is for professional use and must be used exclusively by qualified personnel.
- Blankets should not be ironed.
- Do not iron linen coated with solvent, paint, wax, grease or any easily inflammable products.
- In case of gas heated machine, do not assemble the machine on premises containing a dry cleaning machines or other similar machines.

1.3.2 Symbols

	<p>Caution.</p> <p>An exclamation mark inside an equilateral triangle offers the user important advice about usage, servicing, and hazardous conditions</p>
	<p>Caution, presence of dangerous current.</p> <p>A flash lightning with an arrow at its end inside an equilateral triangle, warns the user about the presence of uninsulated "dangerous current" sufficient in intensity to cause electrocution.</p>
	<p>Caution, hot surface.</p> <p>This symbols warns the user of the presence of high temperatures which could cause severe burns. Some surfaces can reach close to 200°C (392°F).</p>
	<p>Read the instructions before using the machine.</p>
	<p>Warning, do not operate with casing removed.</p> <p>This symbol warns the user that there are mechanisms inside the machine which can be dangerous. The protective housing must be in place during use.</p>

1.3.3 Personal protection equipment

Given below is a summary table of the Personal Protection Equipment (PPE) to be used during the various phases of the machine's service life.

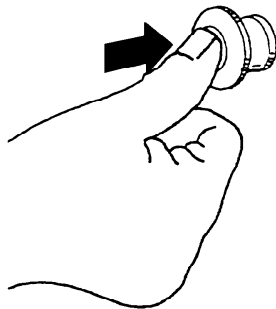
Phase	Protection garments 	Safety footwear 	Gloves 	Glasses 	Ear protectors 	Mask 	Safety helmet 
Transport		X	O				
Handling		X	O				
Unpacking		X	O				
Installation		X	O				
Normal use	X	X	X	X			
Adjustments	O	X					
Routine cleaning	O	X	X	O			
Extraordinary cleaning	O	X	X	O			
Maintenance	O	X	O				
Dismantling	O	X	O				
Scrapping	O	X	O				

Legend : **X** : PPE required ; **O** : PPE available or to be used if necessary.

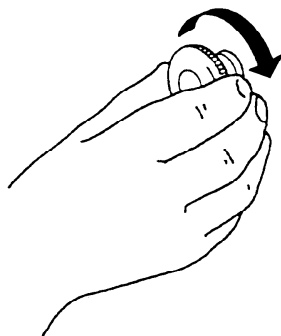
Normal use : Safety footwear must be defined for a use on a wet floor. And use glasses and gloves to manipulate chemical products.

1.3.4 Emergency stop

The emergency stop must be unblocked, if not the machine will not work (to unblock, turn the red button to the right). If the machine for some reason has to be stopped, abnormal or dangerous running, press the emergency stop button.



Release the emergency stop, by turning it clockwise only after checking what motivated this stop.



1.3.5 Steam heating first use

- Before any use, it is compulsory to read the instruction handbook.
- The steam heating comprises a steam turning joint to heat the ironing cylinder.
The steam turning joint is mounted on the ironing cylinder. It is accessible by removing the left side frame of the machine and the protection hood



Important



The first day , you use your flatwork ironer machine with steam heating, you may have leaks near the turning joint. Note that it's a **normal** situation, the turning joint needs to be running in. The leaks will disappears after one day of working with steam . If not, please contact your service technician..

1.4 Data plate explanation

In this chapter, you will find the explanation of the different data input on the data plate of your product.

- Commercial name : Usual name of your product (i.e. IC64821).
- Type : Type of your product (you have the same on the Declaration of Conformity CE if delivered with CE certification).
- Model : Model of your product (can be different of commercial name) .
- Serial Number : serial number of your product which indicate the week of the production of your product (the first 4 digit indicate the year and the week of production) and the plant where it has been produced (finish by 17)
- Product N°: Product number of your product.
- Date : The date of the end of manufacture of your product
- Some technical data depending of the heating of your product : see list below :
- Some technical data depending of the voltage ordered.
the voltage looks like that 380–415V 3 50–60Hz
under this, you find the protection request for your product (i.e 16 A)
- Different logos are available on your data plate .
They represent the different certification obtained for your product
CE, EAC
ETL intertek for USA and Canada countries
- QR code : when you scan it, you will be able to obtain the full documentation for your product (Complete installation and user manuals)
- Standardized protection index of your product : IP24D

Electrical heating :

- P.Max : maximum power installed of your product
- Power of the motorization in kW and its isolation class (F) .
- Heating power in W .



Commercial name : IC44821

Type : IC44821


Model : IC44821

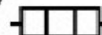
Serial N° : 0472001417

Product N° : 988310101000H

Capacity : - kg

P.Max : 37700 W

 0.37 kW Isol.Class. : F

 36450 W

x

380-415 V  3 50 Hz

 63 A



For safety reasons use only original spare parts.



IP24D

Date : 18/11/2020

Made in France by
Electrolux Laundry Systems France
10430 Rosières-près-Troyes - FRANCE

32101642E



Gas heating :

Left side

- P.Max : maximum power installed of your product
- Power of the motorization in kW and its isolation class (F) .
- Heating power in W .
- Gas approval number depending on your machine except ETL product (begin by 1312/.....)

Right side

- Qn (Hi) : heating power of your product
- Installed gas type , its pressure, its injector diameter and its consumption .
- Gas type for approval
- 3 Other gas type compatible with their pressure, their injectors diameter



Commercial name : IC64819

Type : IC648.....

Model : IC64819



Serial N° : 0472005017

Product N° : 9882030011

Capacity : - kg

P.Max : 1000 W

0.37 kW Isol.Class. : F

39 W

380-415 V 3 50 Hz

16 A

Qn(Hi) 39 kW
 Natural Gas, G20 20 mBar, Ø 3.3 mm.
 Mn/Vn 4.13 m3/h
 Type FR.II2Esl3+

LPG, G30 30 mbar Ø 1.85 mm.

LPG, G31 37 mbar Ø 1.85 mm.

Natural Gas, G25 25 mbar Ø 3.3 mm.

For safety reasons use only original spare parts.

1312/1312AS2174

IP24D Date : 16/11/2020

Made in France by
 Electrolux Laundry Systems France
 10430 Rosières-près-Troyes - FRANCE



32101642E

Steam heating :

Left side

- P.Max : maximum power installed of your product
- Power of the motorization in kW and its isolation class (F) .
- Heating power in W .

Right side

- P.Maxi. (kPa) maximum pressure

For additional information, do not hesitate to consult with our quality department.



Commercial name : WPB4700H

Type : WPB4700H

Model : WPB4700H

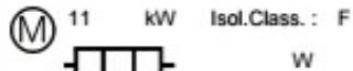
Serial N° : 0472005117

Product N° : 98646370021000F

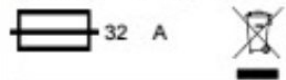
Capacity : 70 kg

P.Max : 11700 W

P. maxi. 600 kPa



380-415 V ~ 3 50-60 Hz



For safety reasons use only original spare parts.



IP24D

Date : 16/11/2020

Made in France by
Electrolux Laundry Systems France
10430 Rosières-près-Troyes • FRANCE

32101642E



1.5 Note about the A.C. power

According to the EN 60204-1:2018 standard, the machine is provided for A.C. supplies corresponding to the extracted characteristics below :

4.3.2 A.C. supplies

Voltage:

Steady state voltage: from 0.9 to 1.1 of nominal voltage.

Frequency:

from 0.99 to 1.01 of nominal frequency continuously.

from 0.98 to 1.02 short time.

Harmonics:

Harmonic distortion not to exceed 10 % of the total r.m.s. voltage between live conductors for the sum of the second through to the fifth harmonic. An additional 2 % of the total r.m.s. voltage between live conductors for the sum of the sixth through to the 30th harmonic is permissible.

Voltage unbalance:

Neither the voltage of the negative sequence component nor the voltage of the zero sequence component in three-phase supplies shall exceed 2 % of the positive sequence component.

Voltage interruption:


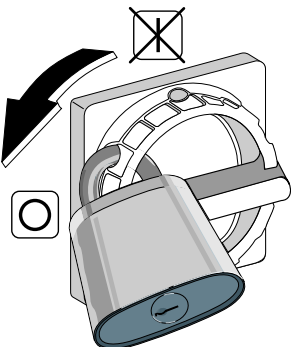
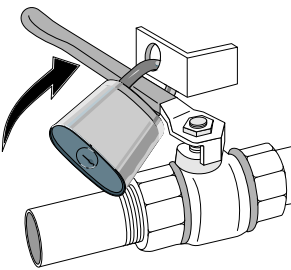
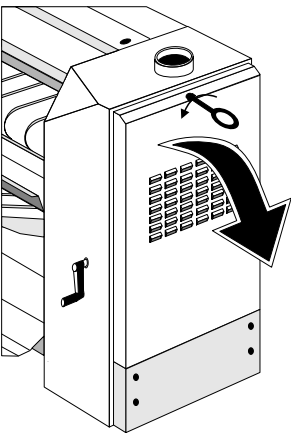

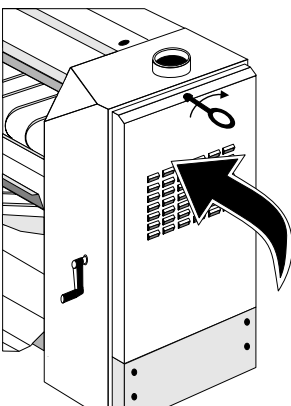
Supply interrupted or at zero voltage for not more than 3 ms at any random time in the supply cycle. There shall be more than 1 second between successive interruptions.

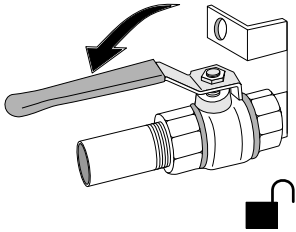
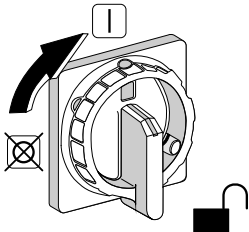
Voltage dips:

Voltage dips shall not exceed 20 % of the peak voltage of the supply for more than one cycle. There shall be more than 1 second between successive dips.

1.6 Locking and tagging procedure

A red insert at the beginning of this instruction handbook schematically shows the locking and tagging procedure described below. If you wish, you can detach this insert and display it close to the machine to remind maintenance personnel of the safety instructions.

1		<p>Always respect items 2, 3 and 4 carefully before doing any repair or maintenance work on the machine.</p> <p>Warning, begin this procedure when <u>the ironer is cool down !!!</u></p>		
2		<p>Put the main switch to Off and lock the handle with a padlock in one of the three holes provided for this purpose.</p>		<p>Close the stop valves for the other supplies (steam, gas, thermal fluid, compressed air) to stop and lock their handle with a padlock.</p>
3		<p>Open the fixed protectors (casings, doors) with the key provided or a special tool.</p>		<p>Do the maintenance.</p>
4		<p>Close and carefully lock the fixed protectors.</p>		

<div><p>5</p></div>			<p>Unlock the stop valves and the main switch.</p>
---	---	---	--

1.7 Working place lighting

The lighting should be designed so as to avoid eye strain for the operator ; it should be uniform without any glare, and should be sufficient to detect any hazards.

The average lighting value on the working place recommended by the clothing industry for inspecting linen is **500 lux**. Whenever possible, the working place should be illuminated by daylight.

1.8 Connectivity of the ironer



Caution



Every ironer type IV648xx can be connectable to keep some datas of the production made by this product.

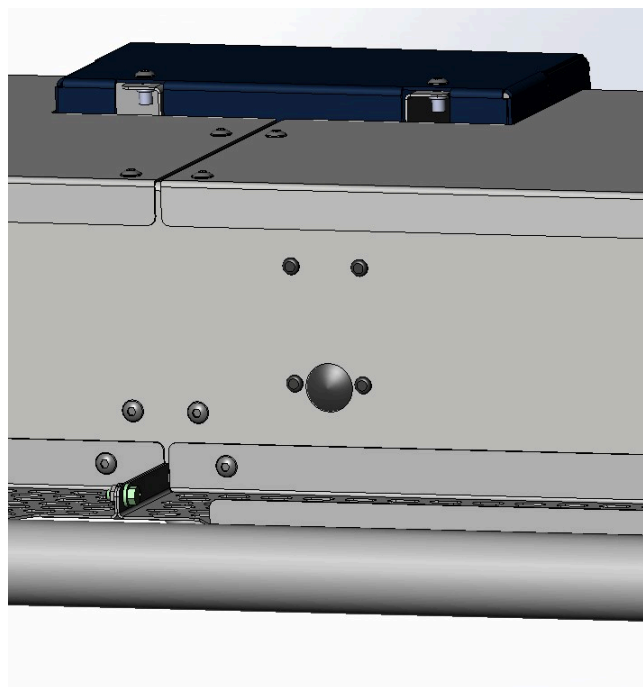
Either the machine comes with the connectivity kit or you can order it to make your ironer connected.

For type IV648xx ironers, the cable supplied with kit 988807401 is not used. The connection is made with a cable already present on your machine at the back of the control panel (rear access)

INSTALLATION INSTRUCTION OF THE CONNECTIVITY BOARD ON THE IRONER :

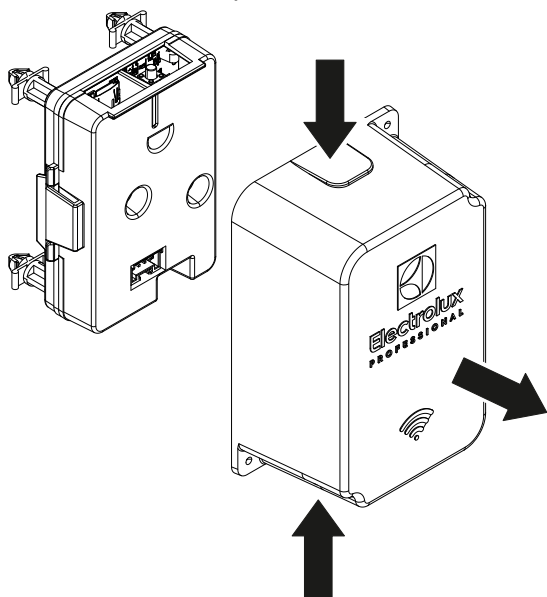
for the installation procedure see instruction **438907725** but it boils down to this:

1. Remove the caps present on the machine and set them aside.

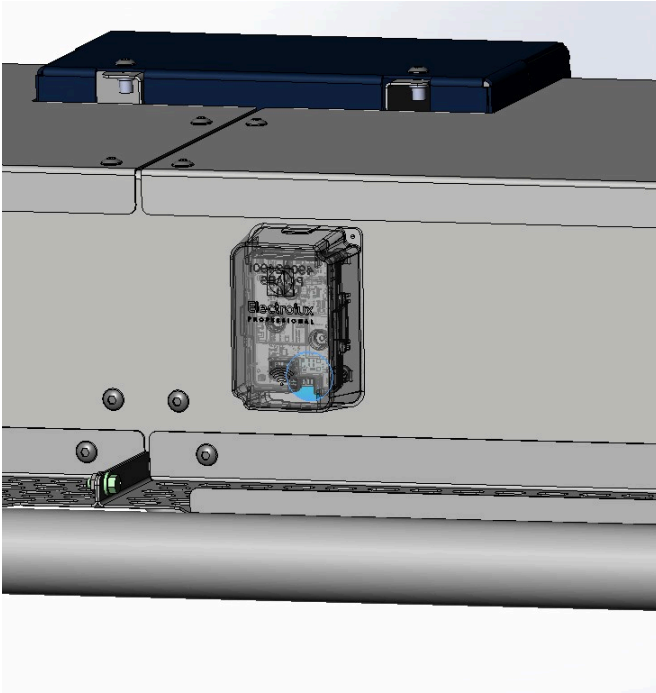


2. Recover the cable which is at the level of the largest opening.

3. Remove the cover from the Machine wireless board with the circuit supports. Squeeze on the top and bottom of the cover and then pull it out.



4. Connect the cable to the Machine wireless board, paying attention to the direction (presence of a polarizer)
5. Snap on the Machine wireless board with the circuit supports on the machine, down connector.



6. Mount the cover (2) on the Machine wireless board. Press until you hear a “click”.

NETWORK OVERVIEW :

To be able to use Electrolux Professional provided Connectivity and Management Software Tools, ELS network should be established.

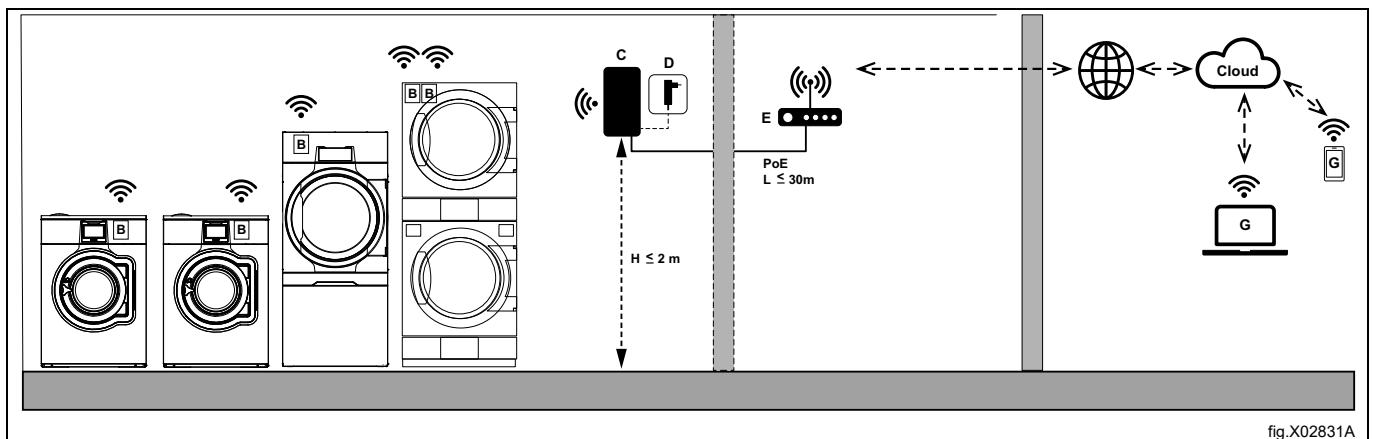
The Machine wireless board is a part of ELS Network, it should be installed on each machine with Compass Pro or Clarus Vibe control system and it be connected to the CPU RS232 port via a quick connection port behind or on top of the machine.

The Site wireless board is designed to be connected to PoE (Power over Ethernet according to IEEE 802.3at) port on the ethernet router otherwise a power supply (D) connected via USB type C with output 5V DC / 8A Max. is required to be connected to the Site wireless board if there is no power supply over ethernet cable.

Network details:

- Machine wireless board on each machine (B)
- Site wireless board (C)
- Power supply, output: USB type C 5 VDC / 8A Max. (option) (D)
- Router with PoE (Power over Ethernet according to IEEE 802.3at) (E)
- Client/remote PC (F)
- Web application & Mobile application (G)

Schematic diagram below also valid for L6000 dryers IV648xxx range:



2 Handling



Important



It is obligatory that all these operations are undertaken by handling specialists.

2.1 Unpacking

You should have found an instruction handbook and keys to open the machine casings, in the machine.

Depending on its destination, the ironer is delivered bare or may be placed on a transport pallet and/or packed with plastic film.

In some cases, it may be delivered in a crate, or in maritime packing (wood box).

Take off the plastic film or remove the wood with a spanner.



Caution



Check that no damage has been caused during transport.

2.2 Lifting with a fork-lift truck

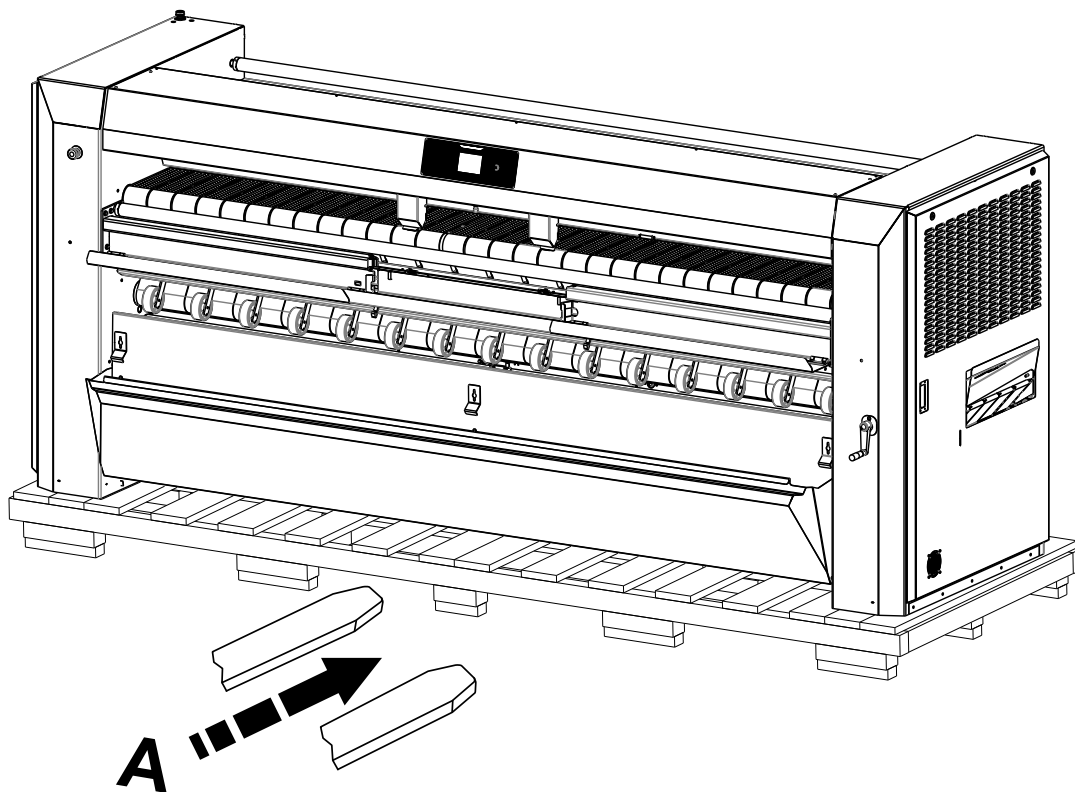


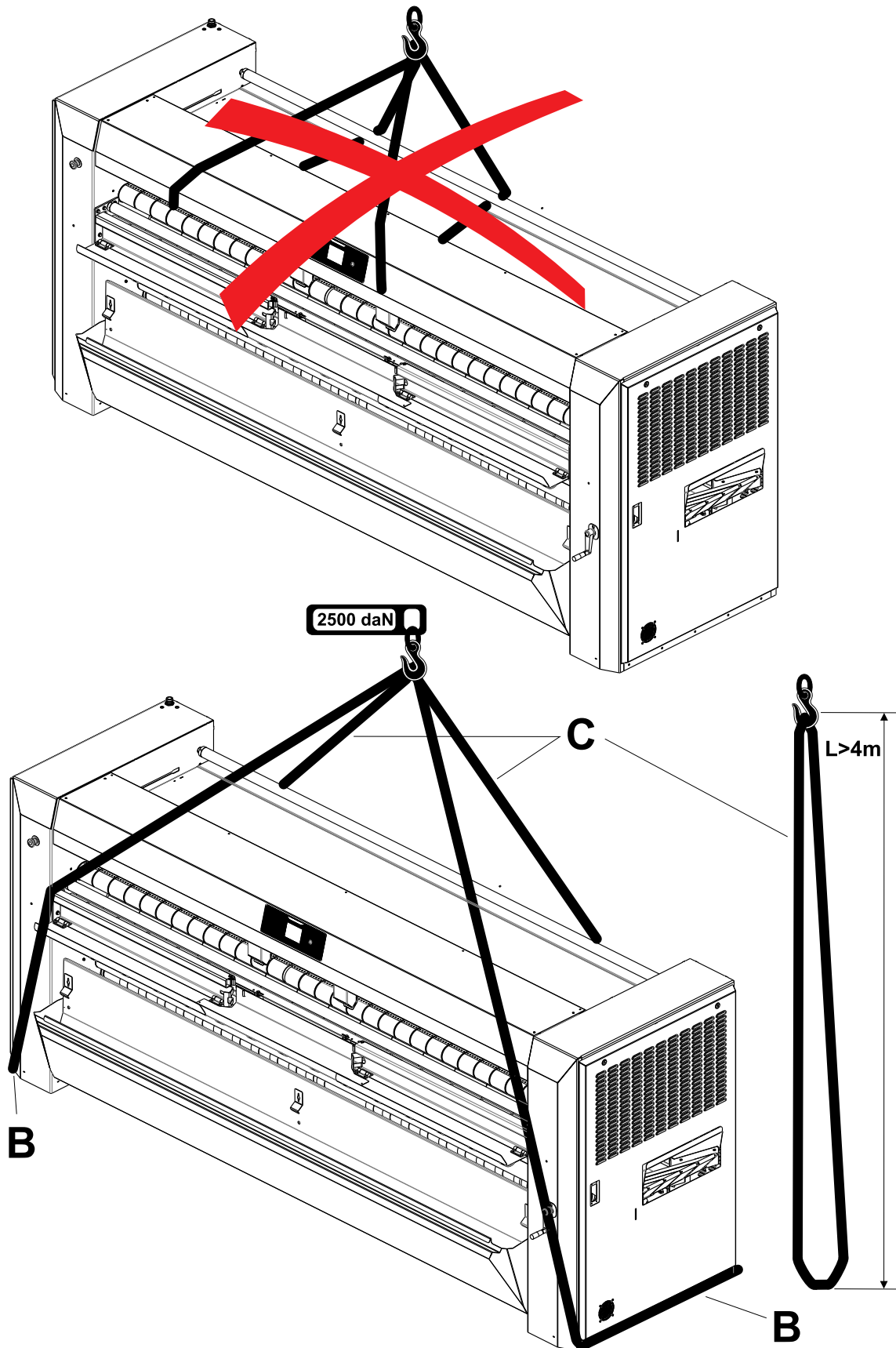
Warning



You should never handle the machine in its longitudinal side (any other than shown on the drawing below) with a fork-lift truck. Important risk of parts deterioration for those fixed under the machine.

This can be carried out from the front or back, and at the centre of the machine using forks with minimum length of 1.50 m (59") and **only with the pallet**.





2.3 Lifting with handlings straps

Lifting in that case can only be done with handling straps (C : minimum capacity 2500 daN / L : minimum length 4m) which bear weight of the machine.



Caution



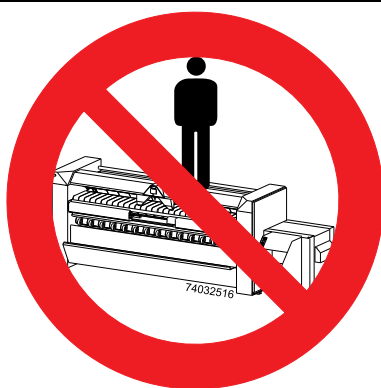
Make sure to place the straps correctly to avoid any bending of parts of the machine.



Caution



In order to avoid any bending of casings, you should never climb and stand on top of the machine.



2.4 Moving along the ground

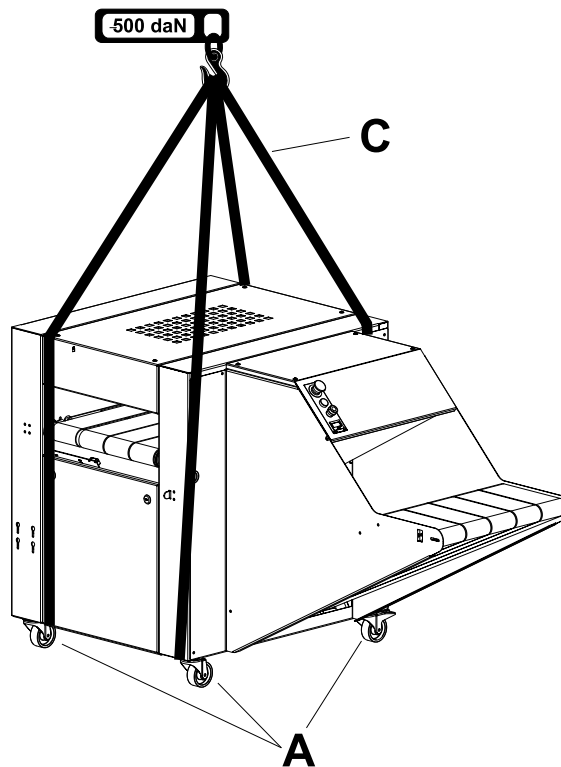
The machine frame is made up of two parallel spars, making ground moving possible by means of rollers, grinding tracks or a trolley.

The two handling angles (B) can be used to lift the machine using hydraulic jacks or poles, so that rollers can be slipped under the girder.

2.5 Handling the stacker

The stacker can be lifted using handling straps (C : minimum capacity : 500 daN) able to support the weight of the stacker.

The stacker can also be wheeled over a smooth flat surface using its 4 wheels (A).



3 Installation :

3.1 Installation

The ironer must be transported to its final position in the laundry before the pallet is removed.

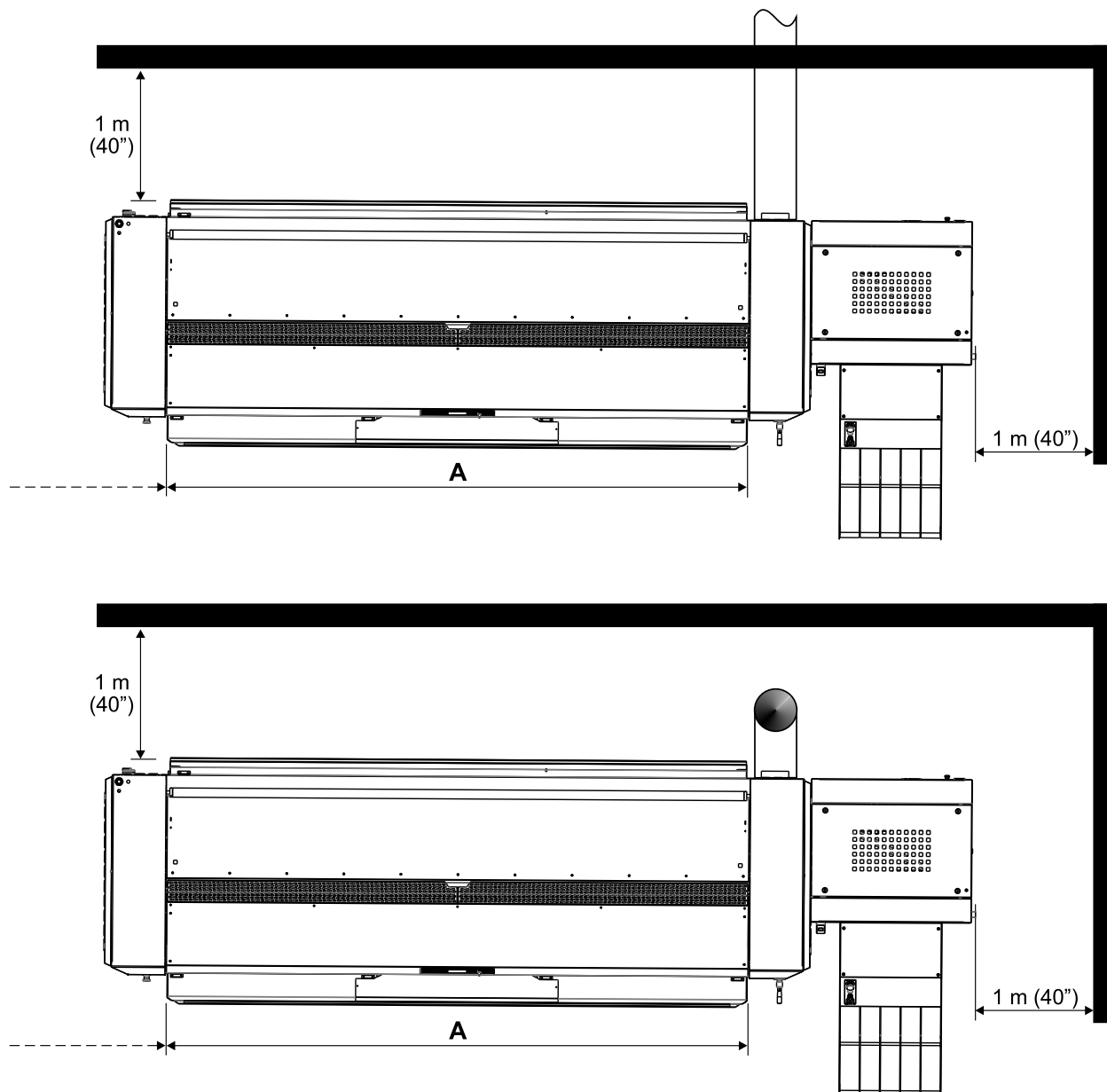
The installation must be done by competent technicians in accordance with local codes and regulations. When there are not local codes and regulations, the installation **must be comply** with European standards applicable.

The machine must be installed on a perfectly even surface, strong and horizontal, capable resisting to the efforts shown in the technical characteristics.

Degrease carefully the ground and the soles of the machine.

If there is a carpet, it is recommended that it should be removed from the part of the floor on which the machine is to be supported.

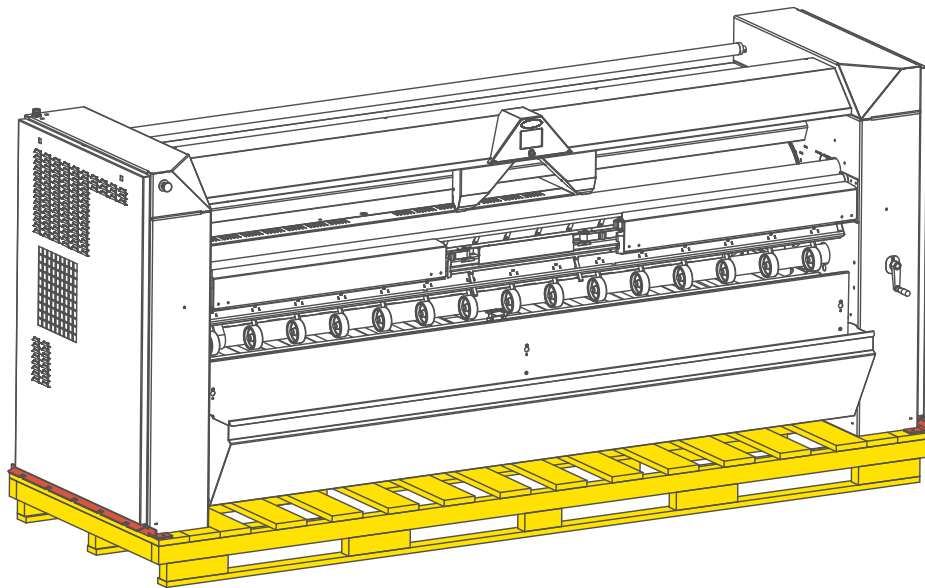
- Control the horizontal level using a water level placed on the machine's sole.
- Leave a minimum space of **5 mm** between the floor and the cases , The ironer must be on its four adjustable feet.
- Place the ironer so that it is easy for the user and the service technician to do their work.
- Leave at least 1 meter (40") (according to the recommendation in standard EN 60204) between the machine, a wall or any other machine at the sides.



However, note that if you can, it is recommended that you should leave sufficient space for maintenance of the heating box to avoid having to move the machine (minimum length A on the left side).

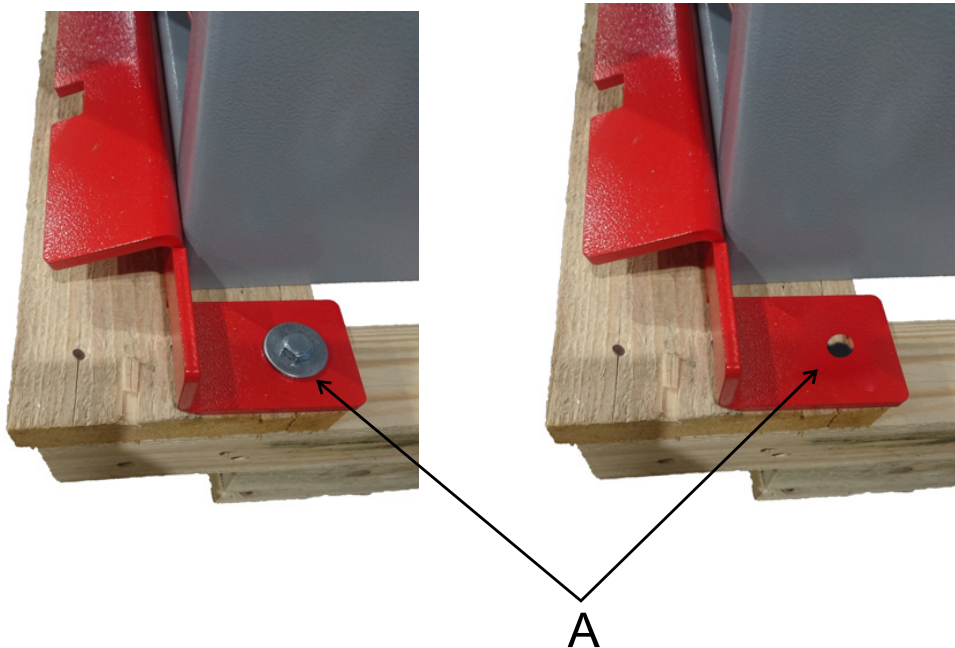
Ironers are provided with four leveling screws to facilitate leveling (one on each corner of the sole plate). To avoid damaging the floor surface, place 10 cm (4") square metal shims, or shims made of another appropriate material, under the ironer stands.

3.1.1 How to remove the pallet :



When the pallet is putting in its right place, you can remove it by following these points depending of your enable tools :

Remove the fixation (A) of red handling brackets from the pallet on each side of the machine.



3.1.1.1 Remove the pallet with a two-wheel forklift load :

Once the machine is placed on the ground with the pallet, it is advisable to use a two-wheel forklift load as below to facilitate the removal of the pallet and any movement of the machine.



If this type of tool is unavailable, follow the procedure in the next chapter to remove the pallet from the machine.

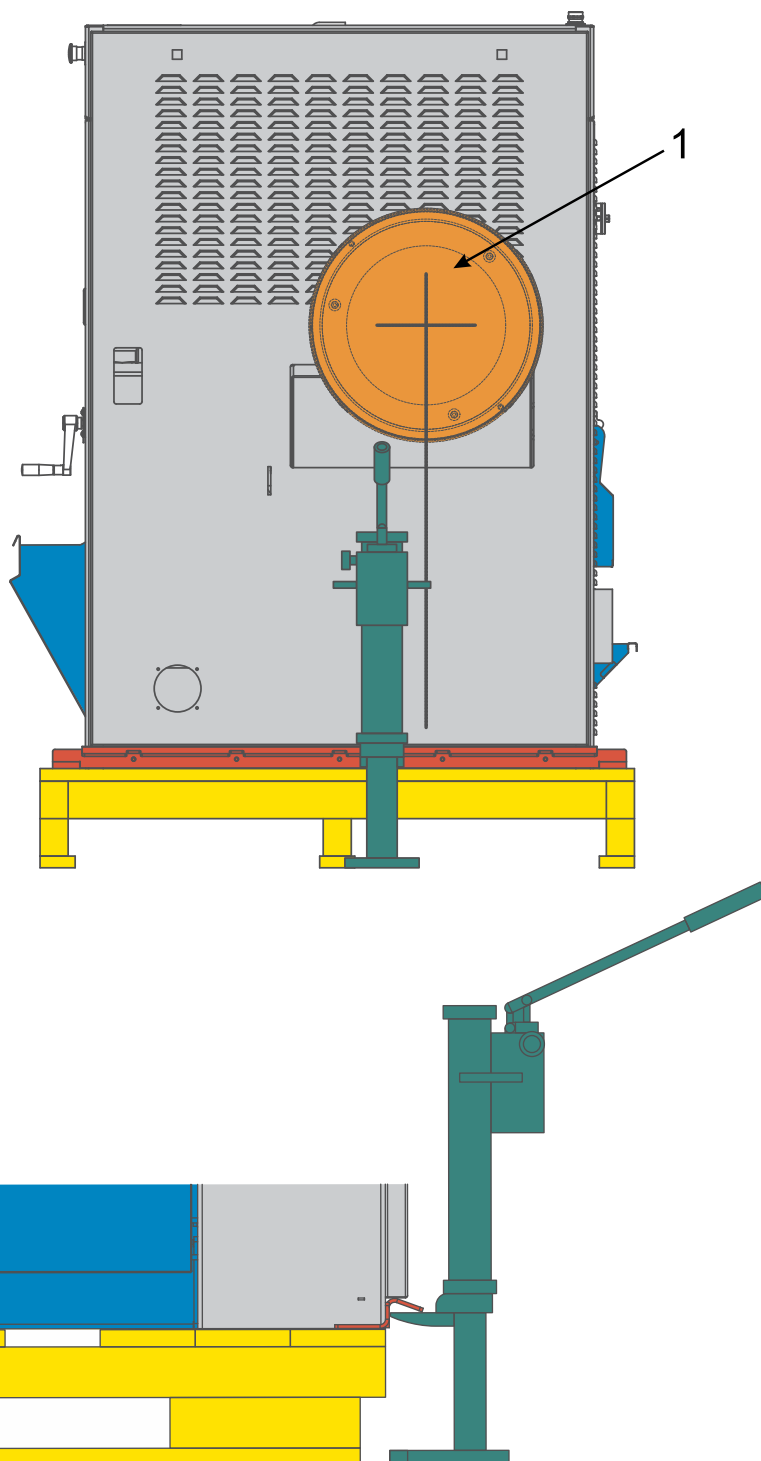
3.1.1.2 Remove the pallet without a two-wheel forklift load :

Equipment :

- 01 x hydraulic cylinder
- 24 x piece of wood (400x70x60)
- 08 piece of wood (400x150x25)
- 1 side new support / 1 side old support
- 1 new pallet that does not exceed the machine.

STEP 1 :

- Check that all the nails of the pallet are well in the wood so as not to come up against the wooden wedges when removing the pallet.
- Lift the right of the machine (facing the machine) with the hydraulic cylinder. Attention to the location of the hydraulic cylinder, put it a little on the left of the axis of the cylinder (1) to remain stable and not lean.



- Wedge with 3 pieces of wood (400x70x60)
2 on thickness 70 mm and 1 on the thickness 60mm.
 $2 (400 \times 70 \times 60) + 1 (400 \times 70 \times 60) = 2 \times 70 \text{ mm} + 60 \text{ mm} = 200 \text{ mm}$
- Lower the right side of the machine on the wedges



- ### STEP 3 :

- Remove the pallet. The same size as the machine, the pallet has to pass between the wedges without any problem.



Remove the pallet in a straight line so as not to come into contact with the wedges holding the machine in suspension.

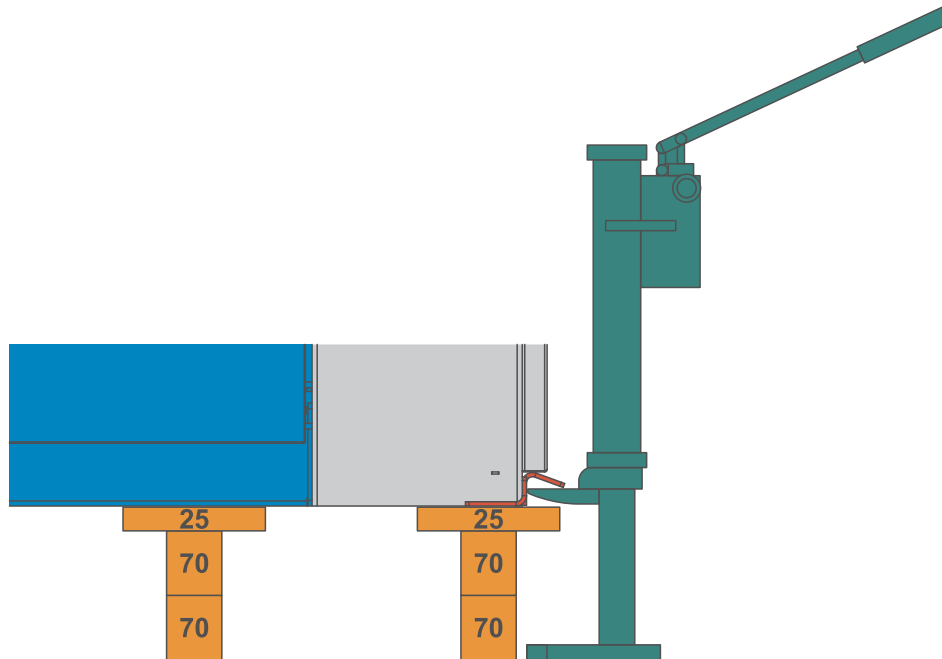
STEP 4 :

- For safety, wedge under the 2 box spar (Front / Rear) as close as possible to the casing with same thickness of wedging as on the side of the machine :
3 pieces of wood (400x70x60)
2 on the thickness 70 mm and 1 on the thickness 60 mm..

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STEP 5 :

- Lift the machine and remove from the right side the wedge (400x70x**60**) 60 mm thick and replace it with a wedge (400x150x**25**) 25 mm thick.
Right side : 1 (400x150x**25**) + 2 (400x**70**x60) = 25 mm + 2x70 mm = 165 mm.
Left side : 2 (400x**70**x60) + 1 (400x70x**60**) = 2x70 mm + 60 mm = 200 mm.
A delta of 35 mm is obtained between the two sides of the machine.



STEP 6:

- Lift the machine and remove from the left side the wedge (400x70x**60**) 60 mm thick
Right side : 1 (400x150x**25**) + 2 (400x**70**x60) = 25 mm + 2x70 mm = 165 mm.
Left side : 2 (400x**70**x60) = 2x70 mm = 140 mm.
A delta of 25 mm is obtained between the two sides of the machine.

STEP 7 :

- Lift the machine and remove from the right side the wedge (400x**70**x60) 70 mm thick
Right side : 1 (400x150x**25**) + 1 (400x**70**x60) = 25 mm + 70 mm = 95 mm.
Left side : 2 (400x**70**x60) = 2x70 mm = 140 mm.
A delta of 45 mm is obtained between the two sides of the machine.

STEP 8 :

- Lift the machine and remove from the left side the wedge (400x**70**x60) 70 mm thick
Right side : 1 (400x150x**25**) + 1 (400x**70**x60) = 25 mm + 70 mm = 95 mm.
Left side : 1 (400x**70**x60) = 70 mm.
A delta of 25 mm is obtained between the two sides of the machine.

STEP 9 :

- Lift the machine and remove from the right side the wedge (400x**70**x60) 70 mm thick
Right side : 1 (400x150x**25**) = 25 mm.
Left side : 1 (400x**70**x60) = 70 mm.

A delta of 45 mm is obtained between the two sides of the machine.

STEP 10 :

- Lift the machine and remove from the left side the wedge (400x**70**x60) 70 mm thick
Right side : 1 (400x150x**25**) = 25 mm.
Left side : machine on the ground.
A delta of 25 mm is obtained between the two sides of the machine.

STEP 11 :

- Lift the machine and remove from the right side the wedge (400x150x**25**) 25 mm thick
The machine is on the ground.
Note : with older transport brackets this works too and there is no need to disassemble them. The new ones go lower than the crankcase and it is imperative to dismount them to put the machine on the ground.

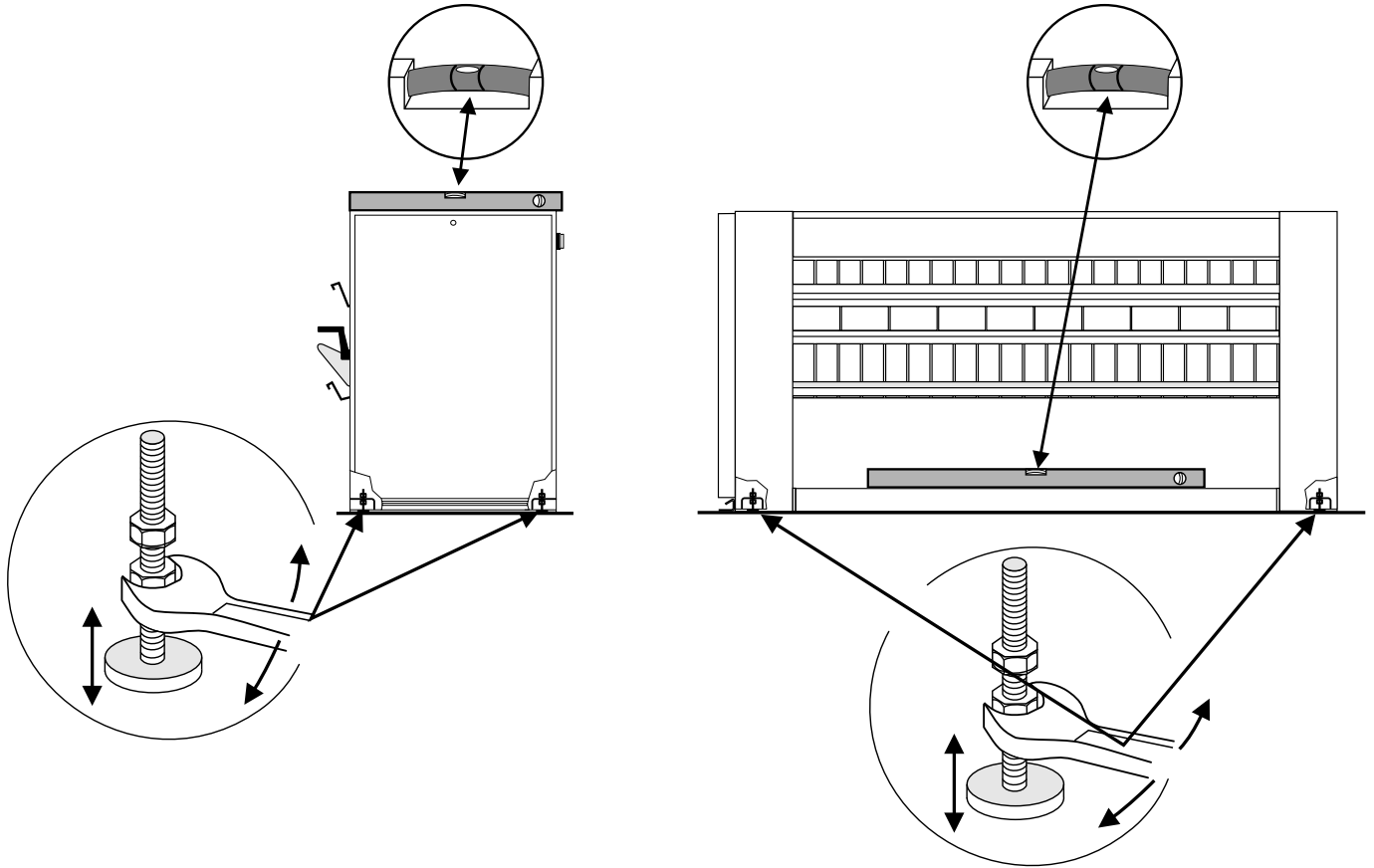
3.1.2 Levelling the machine :

Adjust the nuts with a spanner and adjust the dryer ironer so that it is horizontal and that its four stands are perfectly vertical.

Check with a spirit level placed on the sole plate for the longitudinal direction and the machine top cover for the transverse direction (see below)

The maximum stand height adjustment is 80 mm (3")

Tighten the lock nuts after adjustment for each pads.



Caution



Leave a minimum space of **5 mm** between the floor and the cases , The ironer must be on its four adjustable feet.

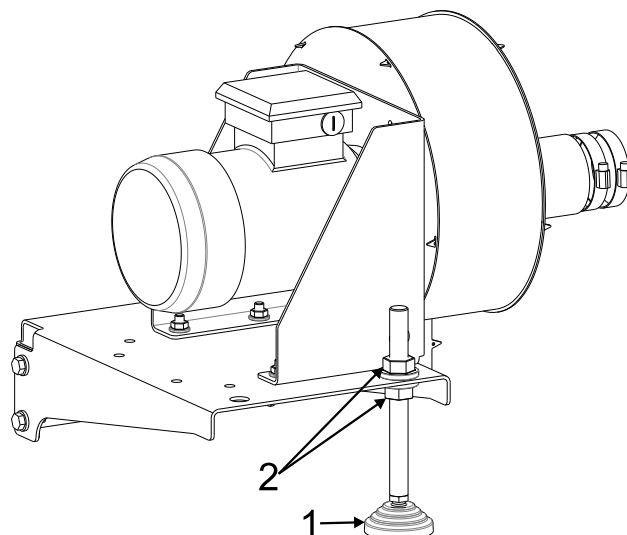
3.1.3 Machine with optional suction feeding table

The machine can be equipped with a suction engagement table to allow better guidance of the sheet at the engagement

. It operates with 2 fans located under the dryer, attached to the front or the rear spar (depending of your model).

Use a wrench to adjust the nuts (2) and adjust the feet (1) of the suction fan brackets located under the dryer.

After adjustment, lock the locknuts.



3.2 Remove of the transport locks fitted.



Important

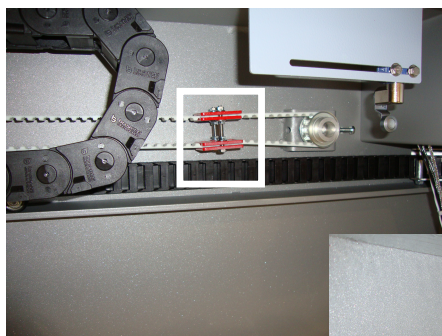


Before putting the machine into service, it is compulsory to remove the different transport locks fitted. The machine should be in its right place before removing these transport locks.

3.2.1 Transport locks fitted inside the casing of the feeder :

To do so, remove the fixing screws of the red transportation bridles.

Keep the transport locks fitted with their screws and bolts to be able to assemble them again in case you would need to lift the machine.



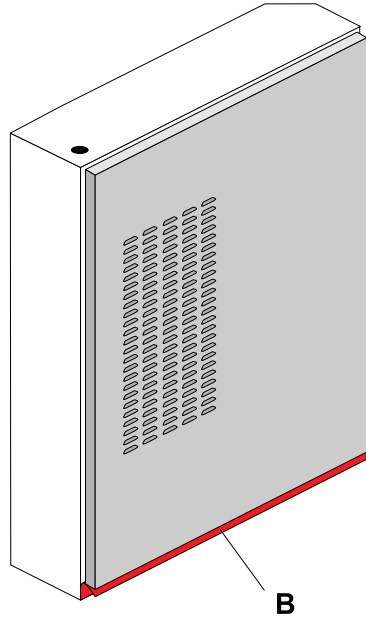
Important



Never handling the machine without the transportation bridles.

3.2.2 Transport angles :

Screw off the screws to remove the 2 red transport angles (B) with a key.



Do not remove this screws.

Caution



Keep this angles to eventually lift the machine.
Block the screws which maintained this angles.

3.2.3 Setting of flap :



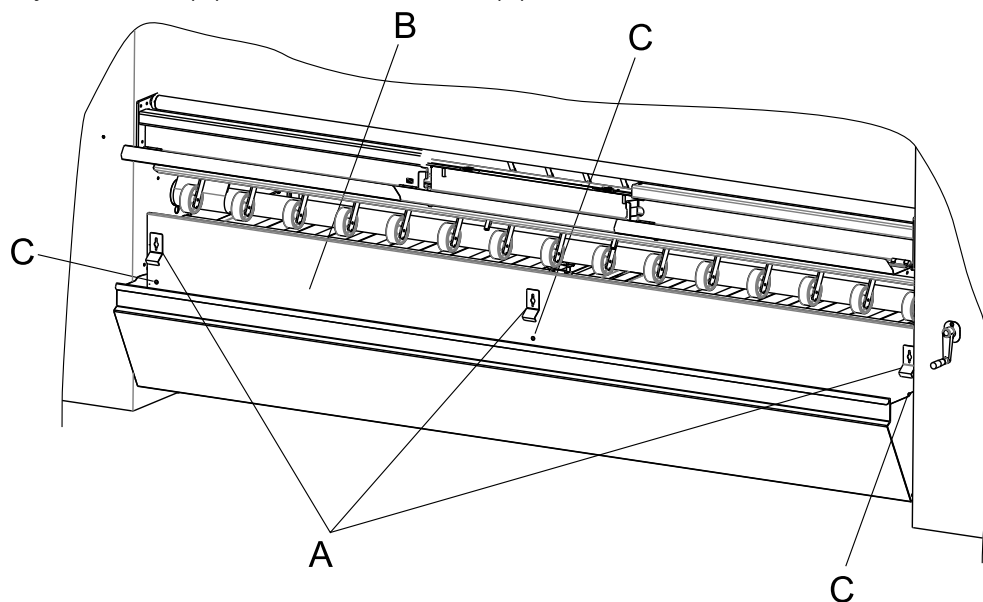
Caution



Before putting the machine into service, it is compulsory to set the flap of the linen collector.

Remove the 3 red bridles (A).

Remove eventually the screws (C) and the linen collector (B) to have better access.



Open the flap into its position.

Screw the 2 screws inside the lateral boxes to maintain the flap by each side.



B

Proceed in reverse order in case of transport of the machine.

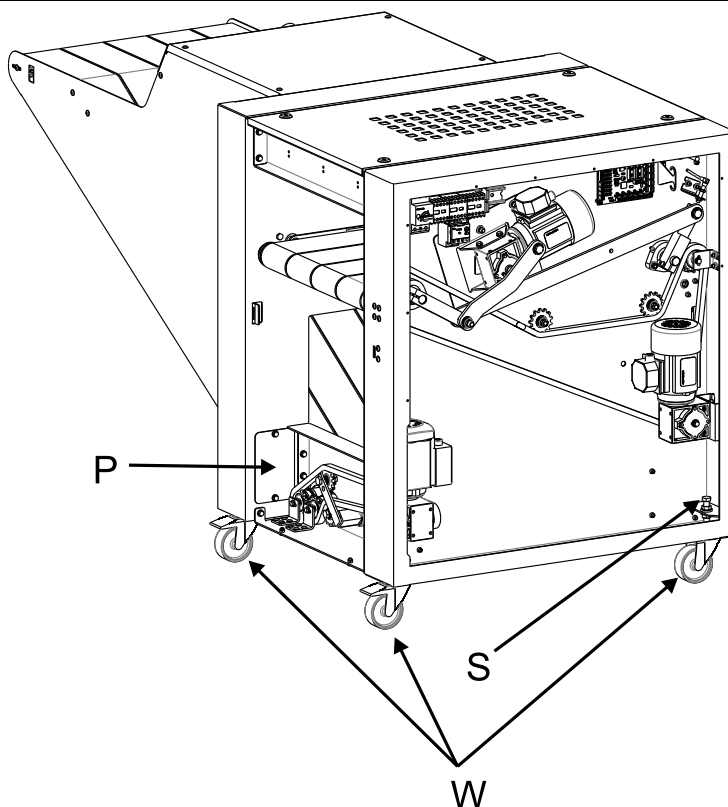
3.3 Connection of the stacker



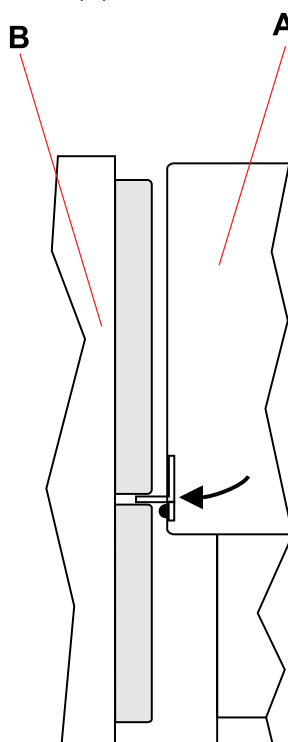
Important



You can adjust the height of the stacker with the ironer by adjusting the screw (**S**) fixing the 4 wheels (**W**) inside the casing of the stacker. To do this, remove the rear and lateral housings and the plate (**P**) to access to the screws (**S**).



Place the stacker (A) on the right of the dryer ironer (B) and centre it with the finger in the slit of the machine.

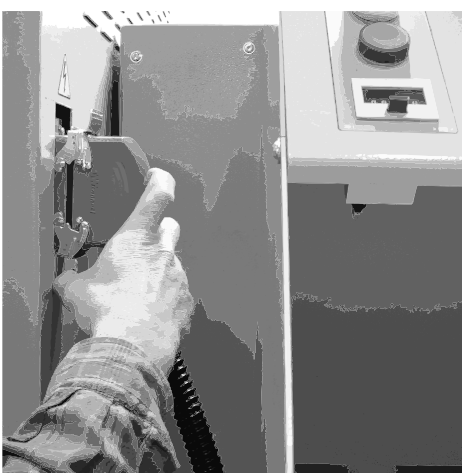


Lock the stacker in position with the clamping pads.

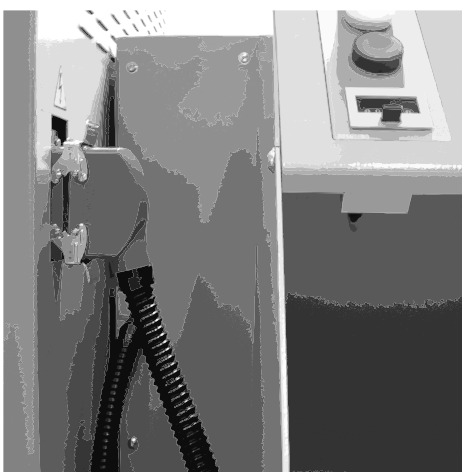
Plug the feeding and control socket of the stacker.



Pull on the socket.



Pull down the locking latches.



Caution



After this installation, do not forget to put back in place all the housings.

3.4 Electrical connection



Prior to use, the machine should be plugged into a correctly earthed power socket complying with the standard in force.



Important



The mechanical and electrical installation of the machine should only be done by qualified personnel.



Important



Make sure that both the power voltage is correct and the power supply of your installation is sufficient before connecting the machine.
Use only a cable to supply the machine.



Caution



The main switch is located on the rear side of the machine , identified by this sticker.



The use of power electronics (variator or filter for example) may lead to unexpeted release of breakers with 30mA differential current device.

To avoid these untimely activations, you ought to use differential protecting systems with residual current only, having a high level of immunity as regards leakage transient current.

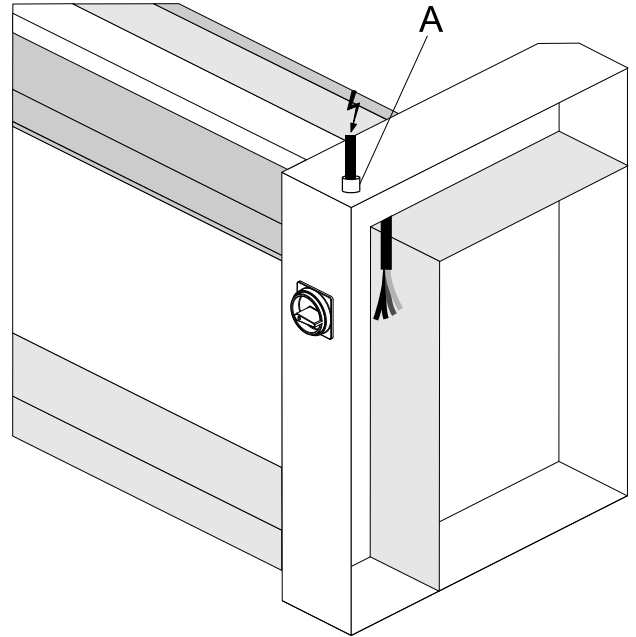
This type of breaker should thus be avoided, or a value of 300mA maximum should be observed according to stand-ard NFC 15100.

For operation that will take place with power supply or/and machine power on, technicians who will operate must have approval to work Low-voltage (1000V Ac max or 1500V DC) and use suitable safety equipment and tools.

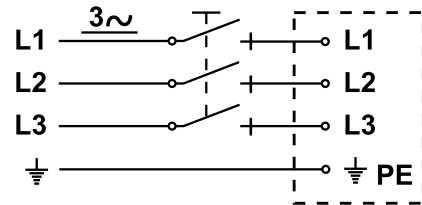
To be in accordance with the Low-voltage authorization if the machine have the option electrostatics bar, this one must be disconnect during technician operation, unless the technicians has a High-voltage authorization.

Pass The power supply cable of the machine through the stuffing box (A) on the top of the left casing.

In order to know all machines technical characteristics concerning electricity (connection, wiring,...) referees to chapter in appendices



For each machine, install a fixed multipole circuit breaker (or fuses protector) in the laundry main cabinet.

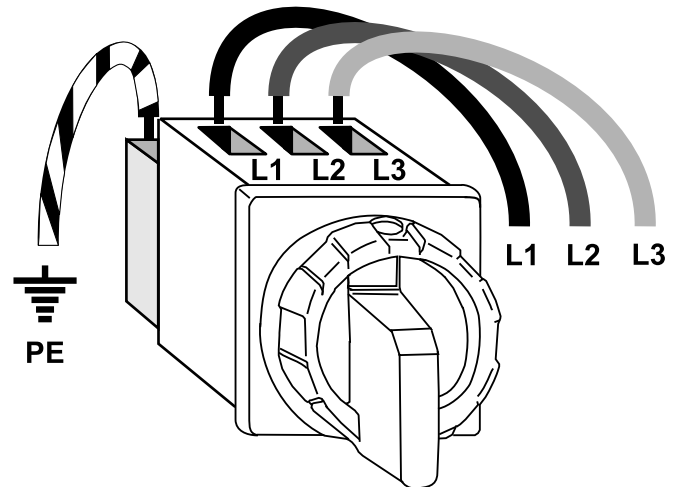


Connect the power supply cable on the machine main switch.

Connect the 3 phases on the main switch (see marks L1,L2,L3) and connect the earth wire on the earth terminal (PE) of this main switch.

NOTE : you must respect the fan rotation direction.

Check operation (see chapter operating inspection below)

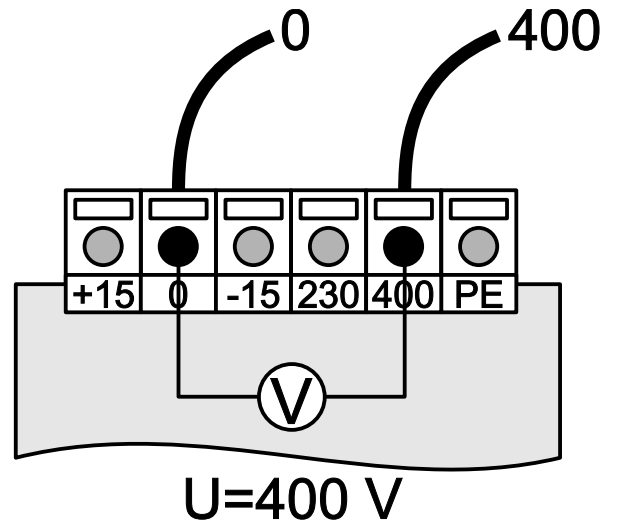


Mains transformer connection diagrams according to the customer's various mains voltage (machines provided with a transformer only).

400 Volts supply

Measure the mains voltage at the primary with a voltmeter (V) between 0 and 400 volts of the transformer.

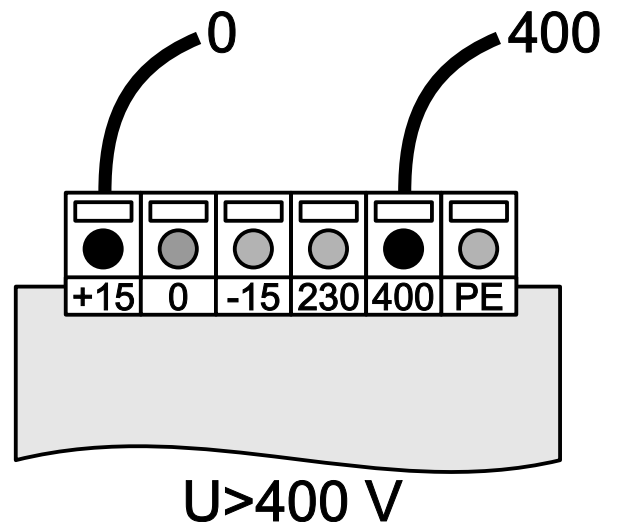
If the voltage is equal to 400 volts, do not touch the transformer connection which should be as indicated in the margin.



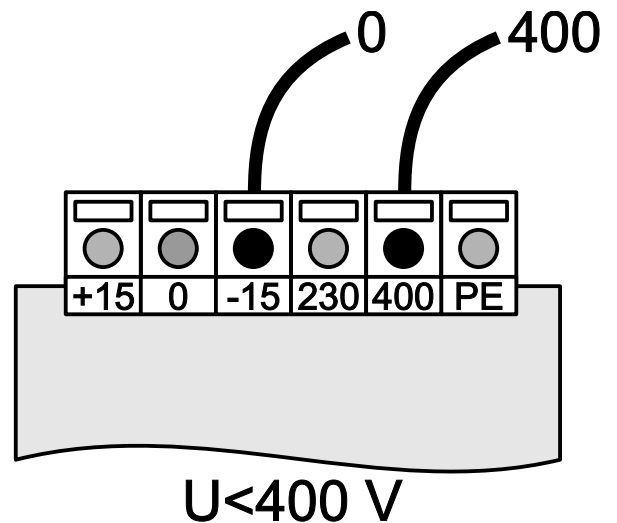
If the voltage is > 400 volts (example: 420/230 volts), connect threads to the transformer as indicated in the margin.

Note!

We recommend that you should adopt this solution even if the voltage is normally equal to 400 Volts, but may be subject to time variations; so that you do not apply an overvoltage to the electrical equipment in your machine.

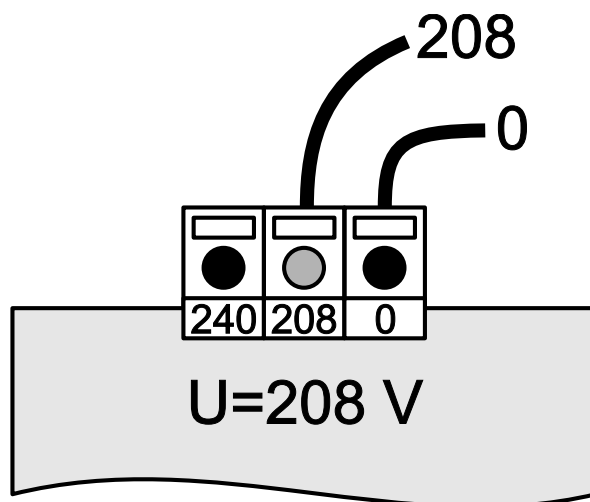


If the voltage is far < 400 volts (example: 370/380 volts), connect threads to the transformer as indicated in the margin.

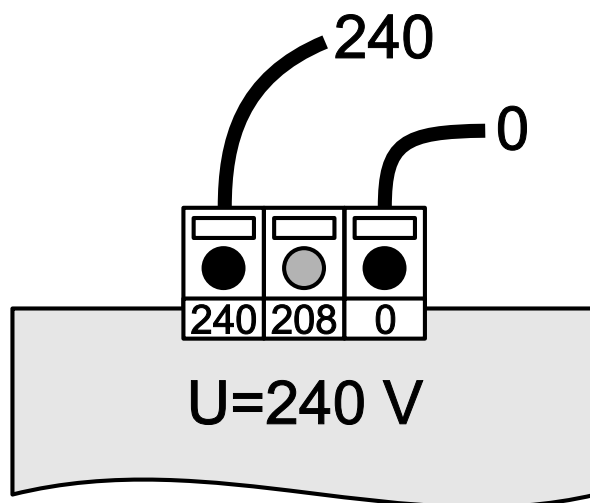


208 Volts supply

If the voltage is equal to 208 volts, do not touch the transformer connection which should be as indicated in the margin.

**240 Volts supply**

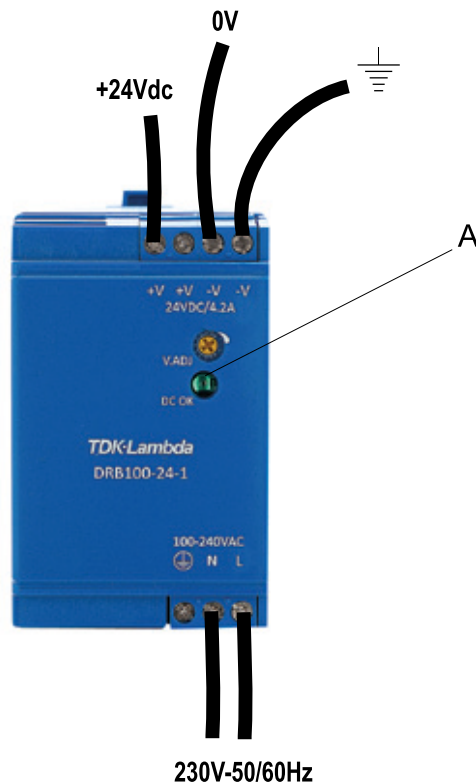
If the voltage is equal to 240 volts, connect the wires to the transformer as indicated in the adjacent figure.

**Important**

Once connected, make sure to check the correct order of phase connections. (see chapter operating inspection below)

3.4.1 Connection diagrams for the control circuit power supply (T2)

The tension of the control circuit delivered by the power supply must be 24 volts dc. The supply tension for your machine is normally 230/400 volts between phases, this tension can however be different. The potentiometer (A) allows to adjust the tension.



3.4.2 Operating inspection

Before putting the machine into service, carry out the working tests.

The operating inspection must be done by an approved and qualified technician.



Caution



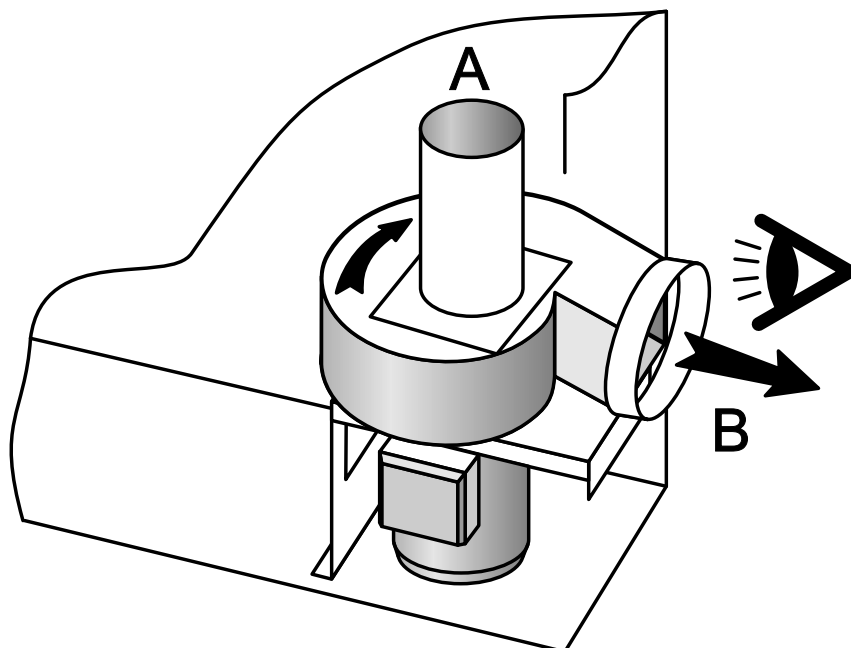
Check in the "MACHINE CONFIGURATION" sub-menu of the "ADVANCED SETTINGS" menu that the Mains frequency parameter is correctly set to the value that corresponds to the frequency of your electricity network (default setting is 50Hz)



Warning



Always make sure that the fan is rotating in the right direction. The fan must rotate in the direction shown on the arrow glued inside the right compartment (see illustration below)



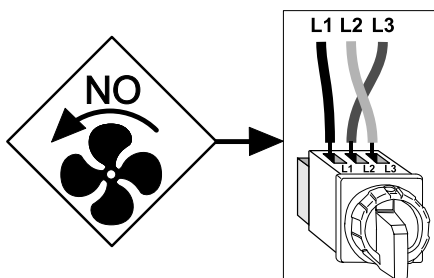
Before starting the machine, do not push the circuit breakers Q5 and Q701 in the electrical cabinet before checking the fan's rotation direction.

For few seconds, manually activate the breaker that drive the fan motor :

Check on the electrical drawing for the breaker name. Then visually check the rotation way of the turbine. A sticker indicate the correct rotation way. If the chimney (B) is already connected, it is possible to check for the pipe (A).

On FFS ironer it is also necessary to check the correct way of belt into cross folding. To do so, it is possible to activate few seconds the breaker that drive the cross motor. The belt must move in the correct direction. Check on the electrical drawing for the breaker name. Then visually check the rotation way of the turbine.

If it is rotating in the wrong direction, invert two of the three phases on the power supply isolating switch to reverse the direction of the rotation of the fan.



Check again the direction of the rotation of the fan then replace the hose and its collar.



Warning



The control geared unit for the ejection has a keyed transmission shaft and it is important that the direction of rotation is correct, otherwise there is a danger that certain mechanical parts might suffer damage. The verification of direction of rotation of the fan allows to eliminate this risk.

If the tests carried out on the various points mentioned above are satisfactory, the dryer ironer is ready for use.

3.5 Connection of the ironer evacuation system :

You should have found an instruction handbook and keys to open the machine casings, in the machine.

Depending on its destination, the ironer is delivered bare or may be placed on a transport pallet and/or packed with plastic film.

In some cases, it may be delivered in a crate, or in maritime packing (wood box).

Take off the plastic film or remove the wood with a spanner.



Caution

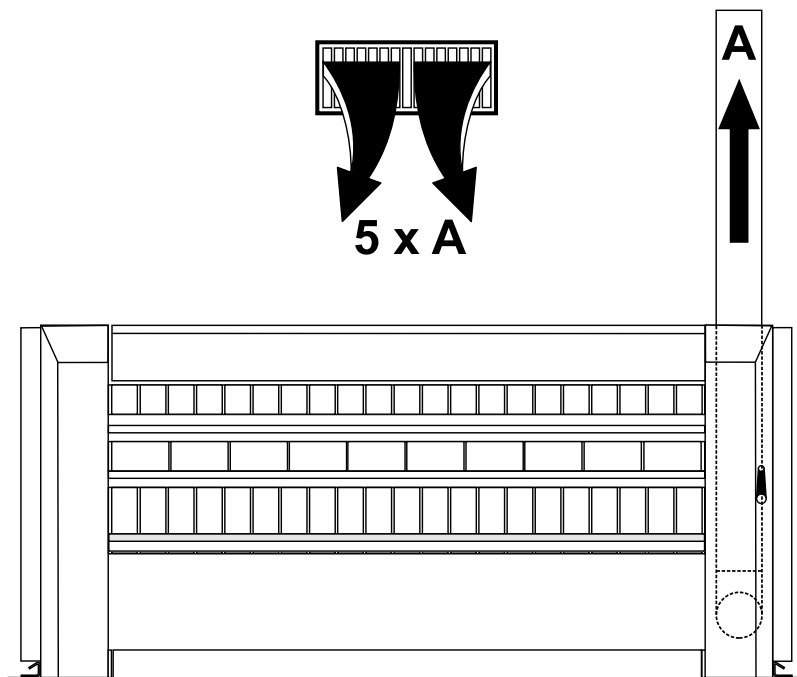


Check that no damage has been caused during transport.

3.5.1 Fresh air inlet

To allow the dryer ironer to work at its best, it is important that the laundry air inlet passes through an opening from the outside.

The fresh air arrival must be equivalent to the volume of evacuated air (please refer to the output of the fans at zero pressure in the technical characteristics)



Important

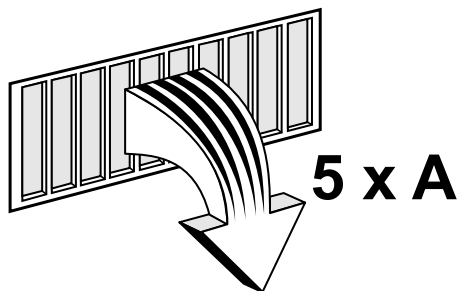


In the case of several machines, these values should be added together.

In order to prevent drafts in the room, the best solution is to place the air inlet behind the machine.

In the case of a machine with gas heating, it is essential that the rooms should be ventilated.

The free section of the air inlet must be 5 times greater than the section of the evacuation pipe.



Do not forget to allow for the fact that grills often occupy half the total area of the free air opening.

3.5.2 Evacuation duct

It is recommended that a separate smooth-walled evacuation duct should be connected to each dryer, providing the least possible resistance to air.

Check that the shaft flow is at least twice the capacity of the ironer exhaust fan.



Danger



To prevent any risk of burnings, the vapours' evacuation duct of the flatwork ironers of the linen has to be insulated (to be done by the customer)



Warning



It is essential that the diameter of the evacuation pipe should be selected as a function of each installation so that the pressure loss never exceed 200 Pa (0.029 Psi) (Value measured at ambient temperature with a manometer connected to the vertical air outlet (dia 6 or 8 mm), located minimum 1 m after the elbow of the machine exit).



Important



These conditions are **ABSOLUTELY ESSENTIAL** for correct working of the ironer.

3.5.3 Specifications :

3.5.3.1 Electric, steam heating :

Fan maximum flow rate with no pressure : 880 Pa.

Average temperature of exhaust at the machine outlet :

electric heating : 65 °C (149 °F)

Steam heating : 65 °C (149 °F)

3.5.3.2 Gas heating :

Fan maximum flow rate with no pressure : 880 Pa.

Average temperature of exhaust at the machine outlet : 110 °C (212 °F)

For the gas heating, the required combustion fresh air supply should be not less than 2 M3/h (1.17cfm) per kW :

machine 4021 : 88 m3/h (52 cfm)

machine 4825 : 104 m3/h (61 cfm)

machine 4832 : 130 m3/h (77 cfm)



Important



NOTE : If the flow is insufficient due to an excessive head loss, a safety pressure switch will automatically switch the heating off.

3.5.3.3 Values of adjustment of safety pressure switch :

machine 4821 : 127.5 Pa (13 mmH2O)

machine 4825 : 88 Pa (9 mmH2O)

machine 4832 : 49 Pa (5 mmH2O)

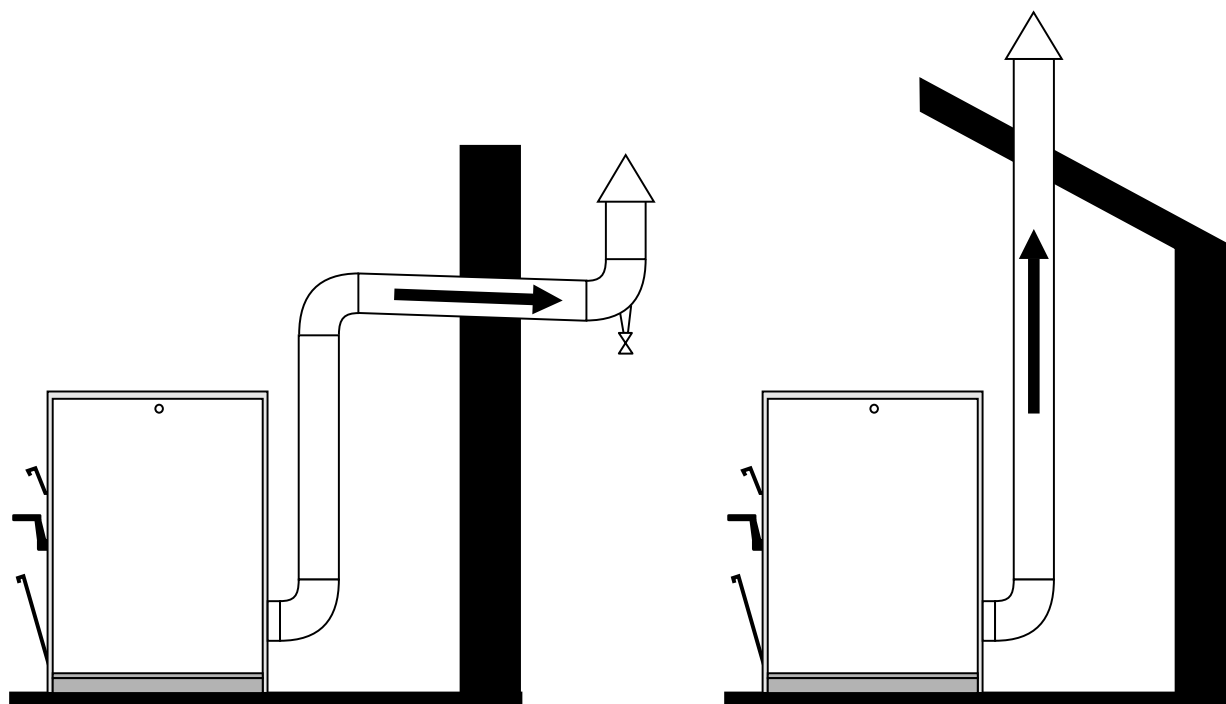
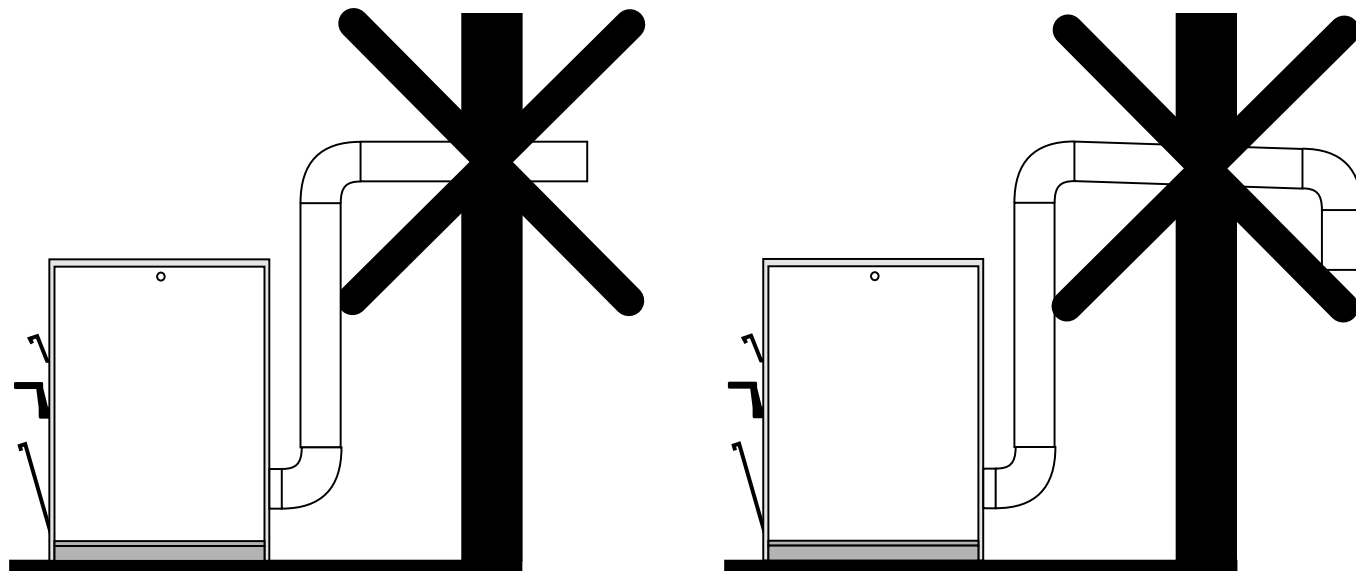
3.5.4 Exhaust pipes pressure control :

In order to achieve proper operation, this exhaust pipes must always be kept as short as possible and must have as few bends as possible.

If an outlet channel joins a main channel, the angle of incidence must not exceed 45°.

Insulate both the outlet pipes for user safety.

The duct must lead to the outside and must be fitted with protection against the weather and foreign bodies.

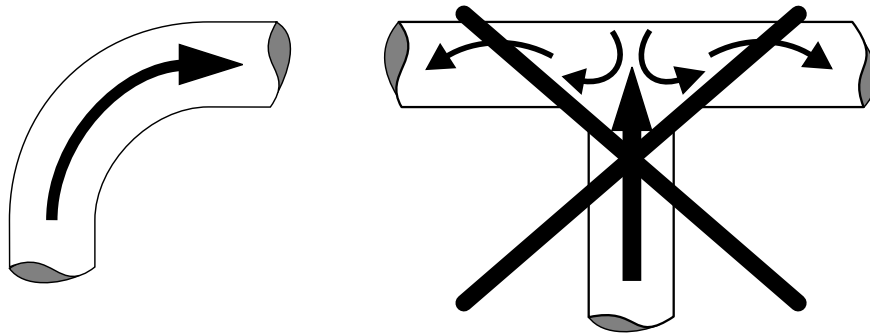


3.5.5 Evacuation system if several dryers are connected to a common evacuation duct (except gas heating machines):

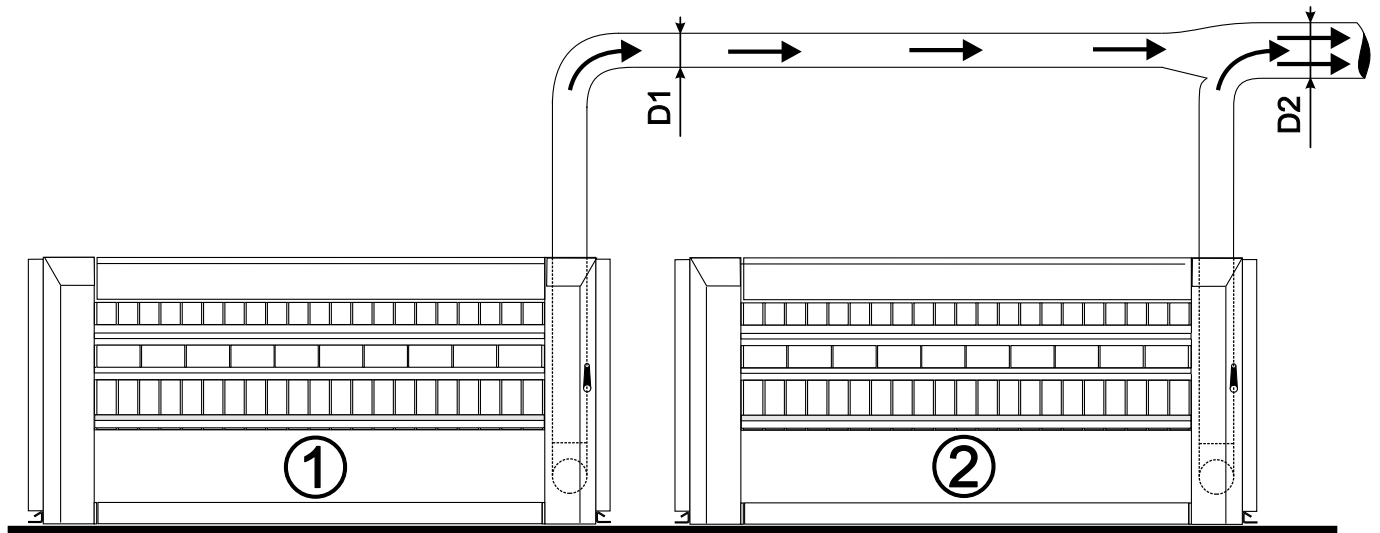
If several ironers are installed with a common evacuation duct, the cross section of the evacuation duct must increase as a function of the number of installed machines so that each of them operates at the same value of air resistance..

Use elbows (and not Tees) to allow the air to pass forwards.

The simplified figure below shows the principle on which the evacuation duct shape is designed.



Number of ironers	D1	D2	D3	D4
Outlet diameter of the exhaust pipe in mm /"	150/5.9	225/8.8	315/12.4	450/17.7
Ventilation aperture required section in dm^2/m^2	2/31	4/62	8/124	16/248



The indicated evacuation diameter is the dryer outlet diameter.

Cross-sections of ducts between dryers and the outside of the building must be designed taking account of the flow and the allowable head loss on each machine and the routing of ducts (elbows and lengths).

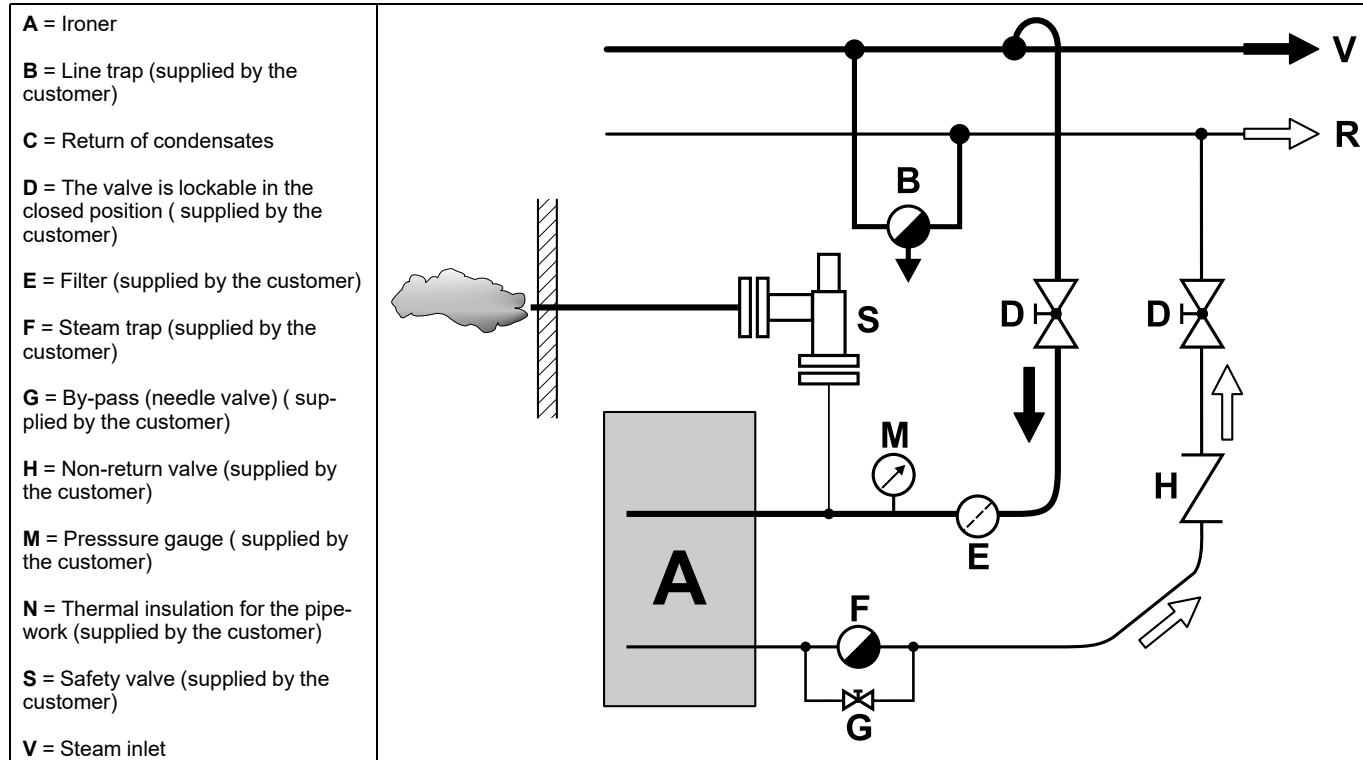
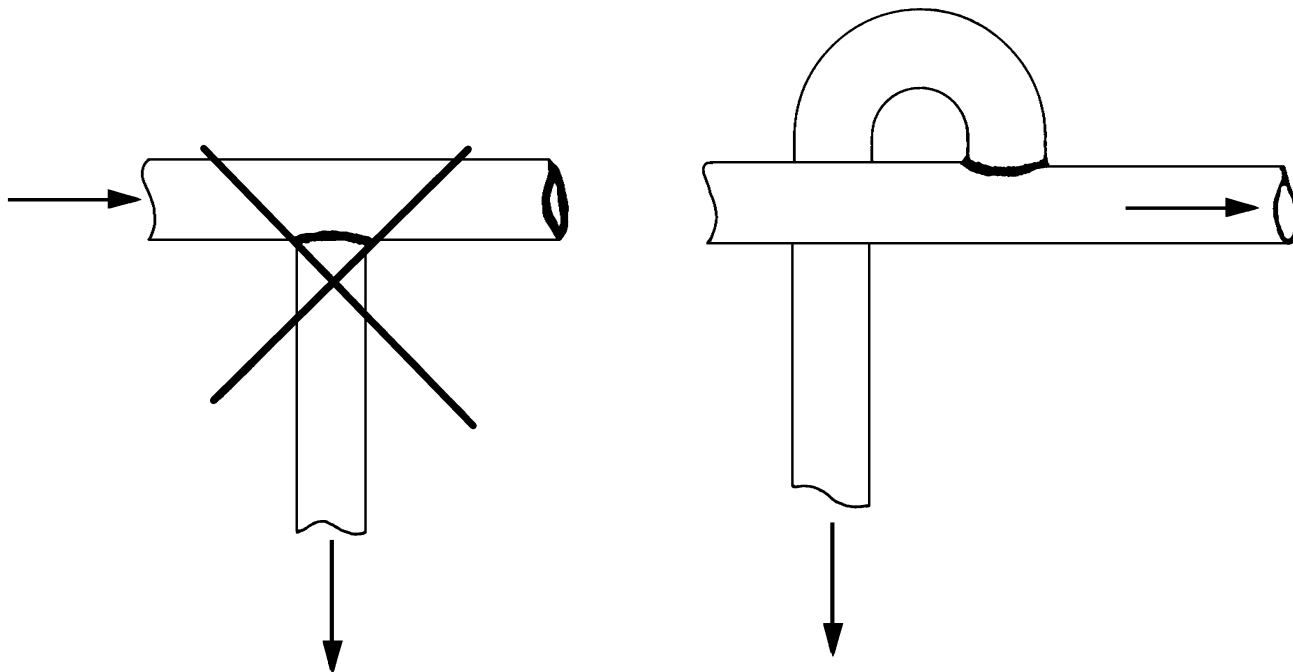
Please call us if you are in any doubt about the layout of your exhaust device if you are modifying an existing installation.

3.6 Steam and condensate connections :

There is always a risk that a certain amount of water will be carried in steam.

Water is carried in the lower parts of the supply tubes, and steam in the upper parts.

Make a swan neck branch-T on the main tube to prevent this water damaging the machine heating system. This will ensure that only steam is retrieved without any condensed water.



3.6.1 Steam connection DN 20 (3/4" BSP) :

The customer must install a line purge, a manually closing valve with handwheel lockable in off position (do not use a 1/4 turn valve) and a filter on the supply side of the ironer.

The customer must install a safety valve if the boiler used operates at a pressure over the acceptable vapour of **1000 kPa maxi (10 bar)**.



Caution



The connection of a safety valve is compulsory in order to conform to the pressurised equipment directive (DESP)

The valve must be CE certified in category IV.

Its size must vary according to the characteristics of the boiler, to the volume of the pipes upstream of the valve and the volume of the appliance to be protected.



Caution



The drainage connector of the safety valve must absolutely be connected to the outside of the building and out of reach human interference (on the roof for example).

3.6.2 Condensate connection DN 10 (3/8" BSP) :

The customer must install a steam trap with float closed and incondensibles drainage device (example : SARCO ref. FT10C — G3/4" PN 25 or GESTRA ref. UNA15 h — G3/4" PN 25), a by-pass, a non-return valve and a manual closing valve lockable in off position.

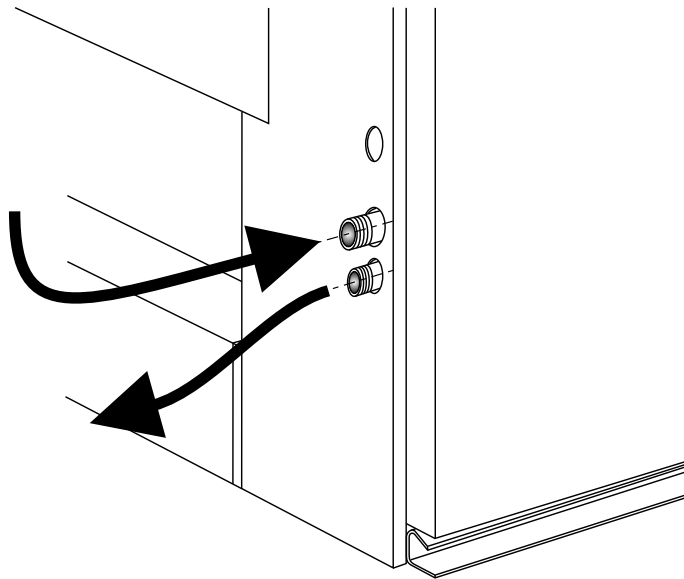


Caution



After around 10 meters, the pressure loss in the condensate return pipes is too great.

It is therefore necessary to calculate its diameter according to the length of the pipes from the bleeders up to the receiver tank, compared to the admissible pressure = 300 kPa maxi (3 bar).



3.6.3 D.E.S.P. approval

This technical form for pressure concerns an assembly constituted of :

- a cylinder classified in category of risk IV according to article 4 and Annex II of Directive 2014/68 / UE,
- pipings (DN20) responding to the article 4 point 3 of Directive 2014/68 /UE.

Manufacturer :

Electrolux Laundry System France SNC

52, Rue Pasteur

BP6

10430 Rosières-Près-Troyes

Technical data of the cylinder :

Maximum service pressure	1000 kPa (10 bar)
Running temperature mini/maxi :	15 °C / 184°C
Volume of the equipment under pressure :	see following table
Pressure of test :	1500 kPa (15 bar) at 20°C
Pressure releasing of the device security	1000 kPa (10 bar)
Anticipated usage :	Steam heating

Flatwork ironer	4821	4825	4832
Volume of the equipment under pressure (in dm3)	335	398	497

3.7 Gas connection :



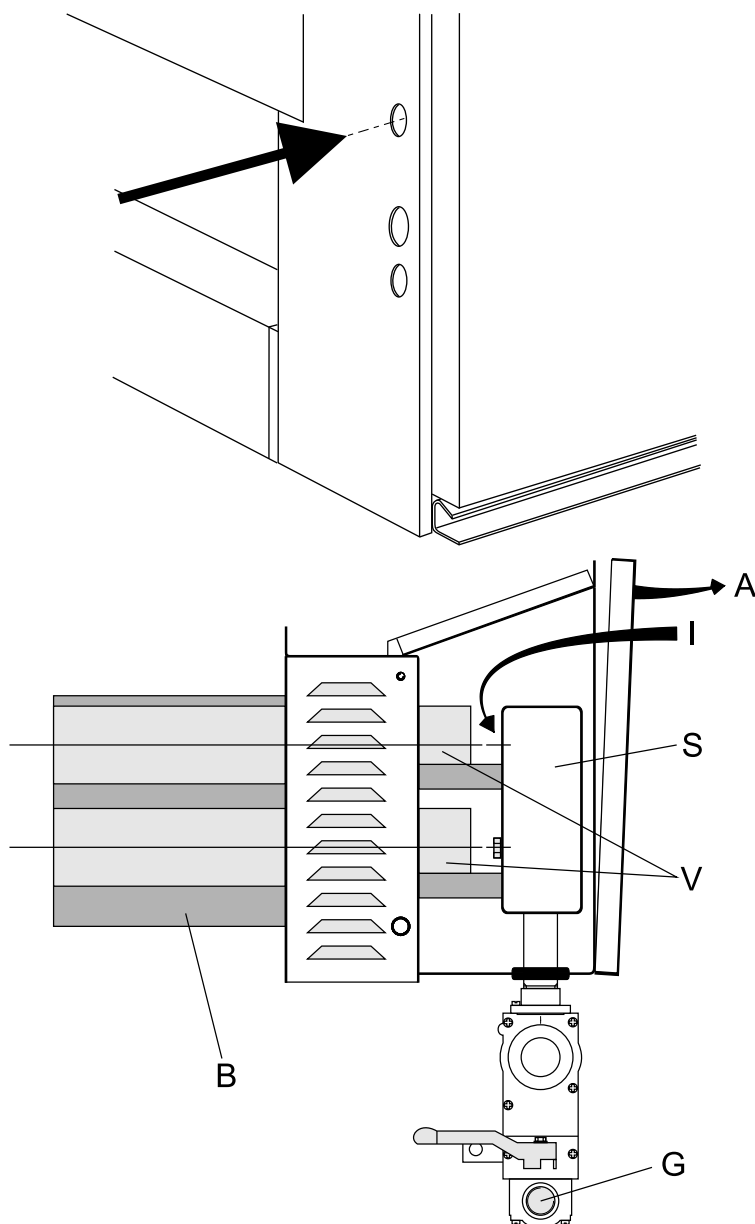
Caution



The installation, connection and gas arrival adjustments for the machine must be done by qualified personnel only.

3.7.1 Gas supply DN 20 (3/4" BSP) :

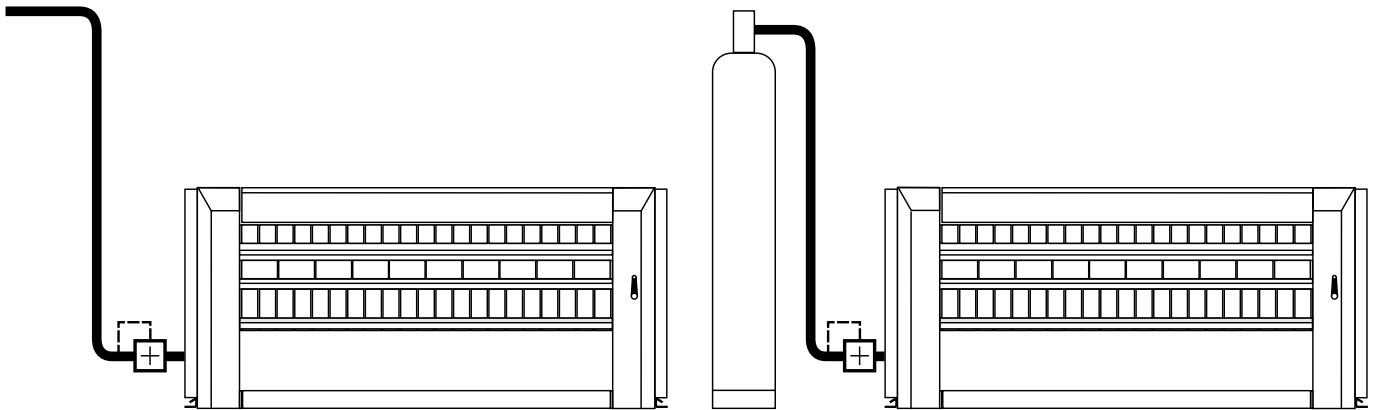
The customer must install a filter and a manual stop valve on the supply side of the machine if natural gas is used. For butane or propane, the customer must install a filter, a manual closing valve and a pressure reducer. Connect the installation at the back of the machine.



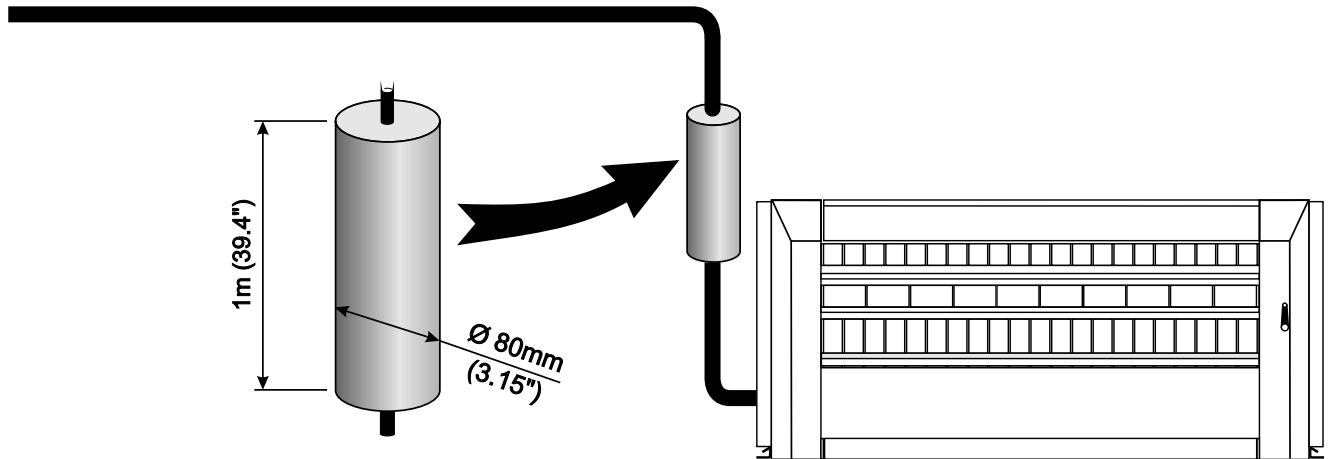
- A : Air filter
- B : Gas burner
- G : Gas inlet
- I : Injectors
- S : Service tank
- V : Venturis

If the machine is connected to gas mains of 300 mbar or directly behind a gas bottle, it is compulsory that a pressure reducing valve be added as close as possible to the machine.

300 mbar



If the gas inlet pressure (P1) is identical to the nominal pressure of the machine (P2), it is possible to insert a reservoir as close as possible to the machine in order to protect against any falls in pressure when the machine starts up. And increase the diameter of gas pipe supply to allow the flow rate.



3.7.2 Determine the gas type :

Check with the customer the gas type that will be used to supply the machine. According this gas type the machine must be set to corresponding to the gas type. For different gas that can be use with this ironer refer to appendices chapter "Gas settings characteristics"

The gas pressure will be determine by the gas type supply to the machine. According this pressure and gas type the gas valve and injectors must be set in accordance to machine size.

Check appendices chapter "Gas settings characteristics" for complete information.

3.7.3 Gas valve setting

Machine was tested at the factory in natural gas.

If you are running natural gas check the valve is still in natural gas setting.

In case of other gas type the gas valve must be set.

Refers to appendices "Gas settings characteristics" for gas valve setting.

3.7.4 Injectors setting

Machine was tested at the factory in natural gas.

If you are running natural gas check the injectors are still in natural gas setting.

In case of other gas type the injectors must be set.

Refers to appendices "Gas settings characteristics" for injectors setting.

3.8 Compressed air connection

3.8.1 Compressed air standard ISO 8573–1

This chapter explains the required by our product for the air compressed quality, from the standard EN ISO 8573-1. This standard shows the quality of the compressed depending on the particles inside it, the tolerance of these particles give a classification of the required compressed air for our product.

Show in the table below the classification :

ISO 8573–1:2010	First Digit				Second Digit		Third Digit
	Solid particles				Water		Oil
	Max.number of particles per m3			Mass concentration	pressure dew point	Liquid	Total oil content (liquid, aerosol and vapour)
	0.1 ... 0.5 µm	0.5... 1 µm	1 ... 5 µm	mg/m3	°C	g/m3	mg/m3
0	In accordance with specifications by device user, stricter repuirements than Class 1						
1	< 20,000	< 400	< 10	-	< –70	-	0.01
2	< 400,000	< 6,000	< 100	-	< –40	-	0.1
3	-	< 90,000	< 1,000	-	< –20	-	1
4	-	-	< 10,000	-	< +3	-	5
5	-	-	< 100,000	-	< +7	-	-
6	-	-	-	< 5	< +10	-	-
7	-	-	-	5 ... 10	-	< 0.5	-
8	-	-	-	-	-	0.5 .. 5	-
9	-	-	-	-	-	5 ... 10	-
X	-	-	-	> 10	-	> 10	> 10

So, the customer should arrange the installation of filter device, as well as a pressure regulator (manometer) on the machine's compressed air supply.



Important



To ensure the proper functioning of pneumatic devices (cylinders, distributors, clamps, silencers) of our products, the following air quality is recommended:

Particles = class **7**

Water = class **4**

Oil = class **4**

Recommended air quality class **[7;4;4]**, this means that:

For dust, we tolerate between 5 and 10 mg of dust per cubic meter of compressed air.

For water, we tolerate a dew point which does not exceed 3°C

For oil, the presence of 5 mg of oil per cubic meter of compressed air is tolerated

3.8.2 Standard connection



Caution



The compressed air admitted to the distributors must be purified to the following values:

- it must be free from solid particles larger than 5 µm. The filter present on our machines has a filtration of 5µm.
- It should not contain more than 1.5 g of water / m3
- It should not contain more than 5 mg of oil condensate / m3

The customer should arrange the installation of filter/lubricator device, as well as a pressure regulator (manometer) on the machine's compressed air supply.

The manual stopping valve lockable in closed position (provided by customer) should be installed on the machine's compressed air supply.

The supply pipe should accept a pressure of at least 1 Mpa (10 bar) (145 psi).

- Connection diameter: rapid action hose coupling DN 6 (0.24") for hose Ø 6/8 mm.
- Advised pressure: 550-700 kPa (5,5-7 bar) (80-102 psi).
- Minimum pressure: 550 kPa (5,5 bar) (80 psi).
- Maximum pressure: 700 kPa (7 bar) (102 psi).
- Consumption 280 l/h.

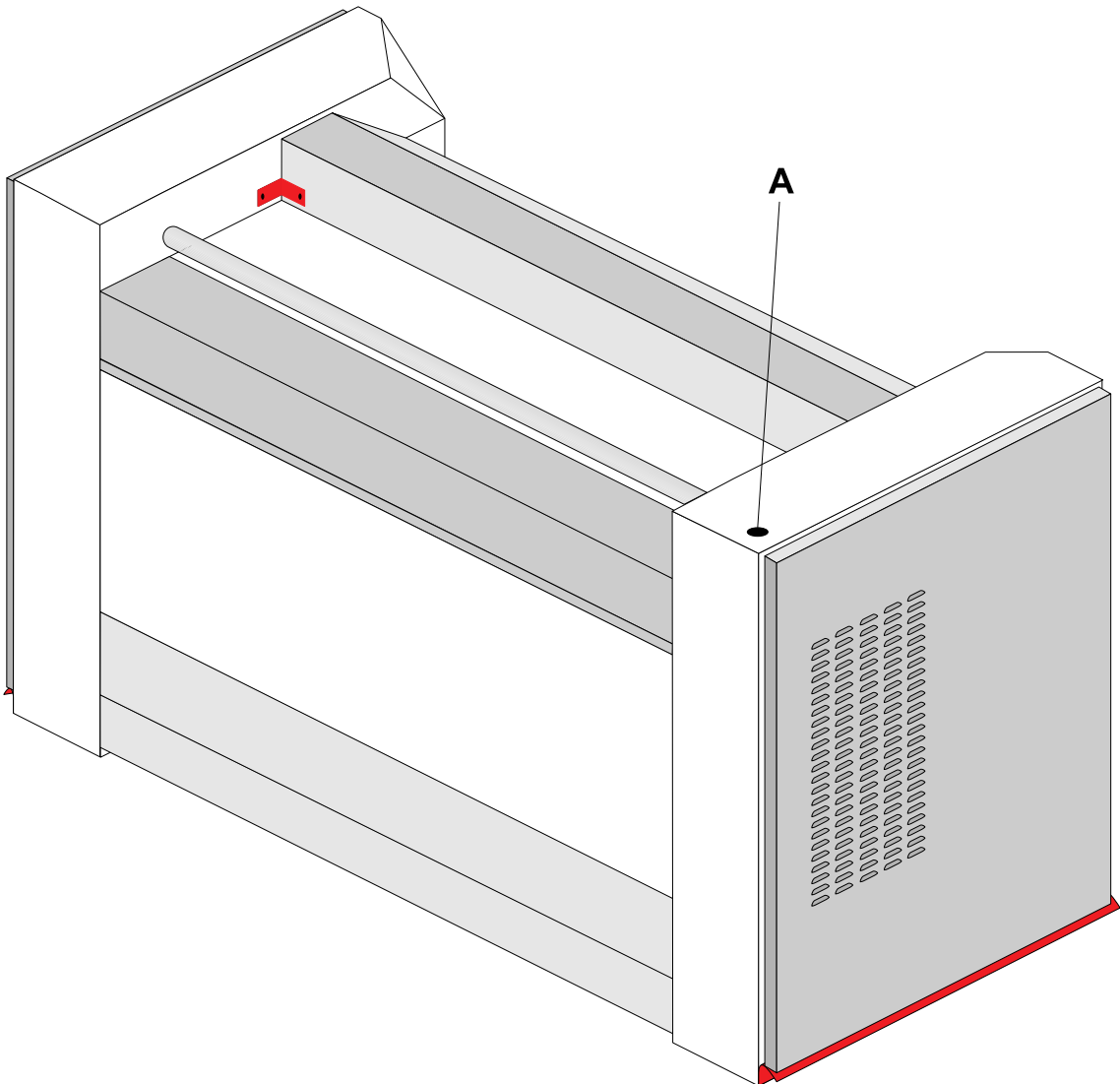


Important



To avoid too big head losses, the compressed air supply pipe should be bigger in diameter than the coupling diameter (DN 8 for example); in this case, put a 6/8-8/10 adapter.

A = Compressed air connection.



3.8.3 Air compressor

Some machines are supplied with an integrated air compressor (option).

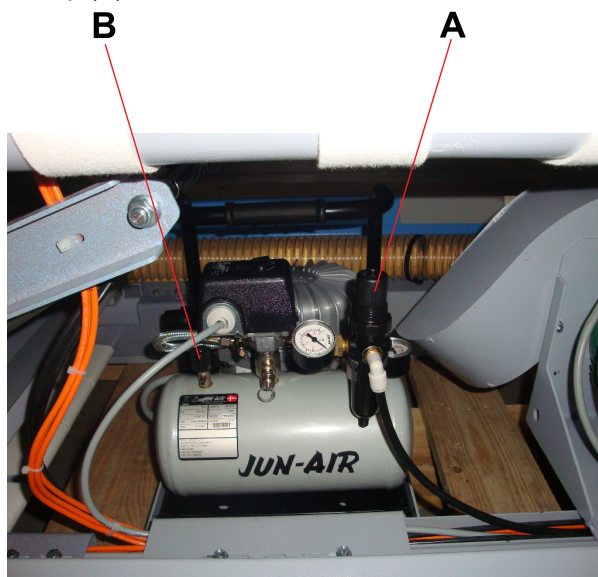
At first start, it is necessary to turn off the compressor manometer tap (A), wait until the compressor reaches the pressure of 7 bars, then re-open the valve.

Maintenance :

Regularly check the oil level (every 6 months) and complete if necessary.

Check the cleanliness of the intake filter, clean if necessary.

Purge regularly the water separator tap (B).



3.9 Check before use

3.9.1 Positioning roller rotation check

The rollers located between the drive disk and the cylinder in the right hand unit must not rotate continuously while the machine is operating.

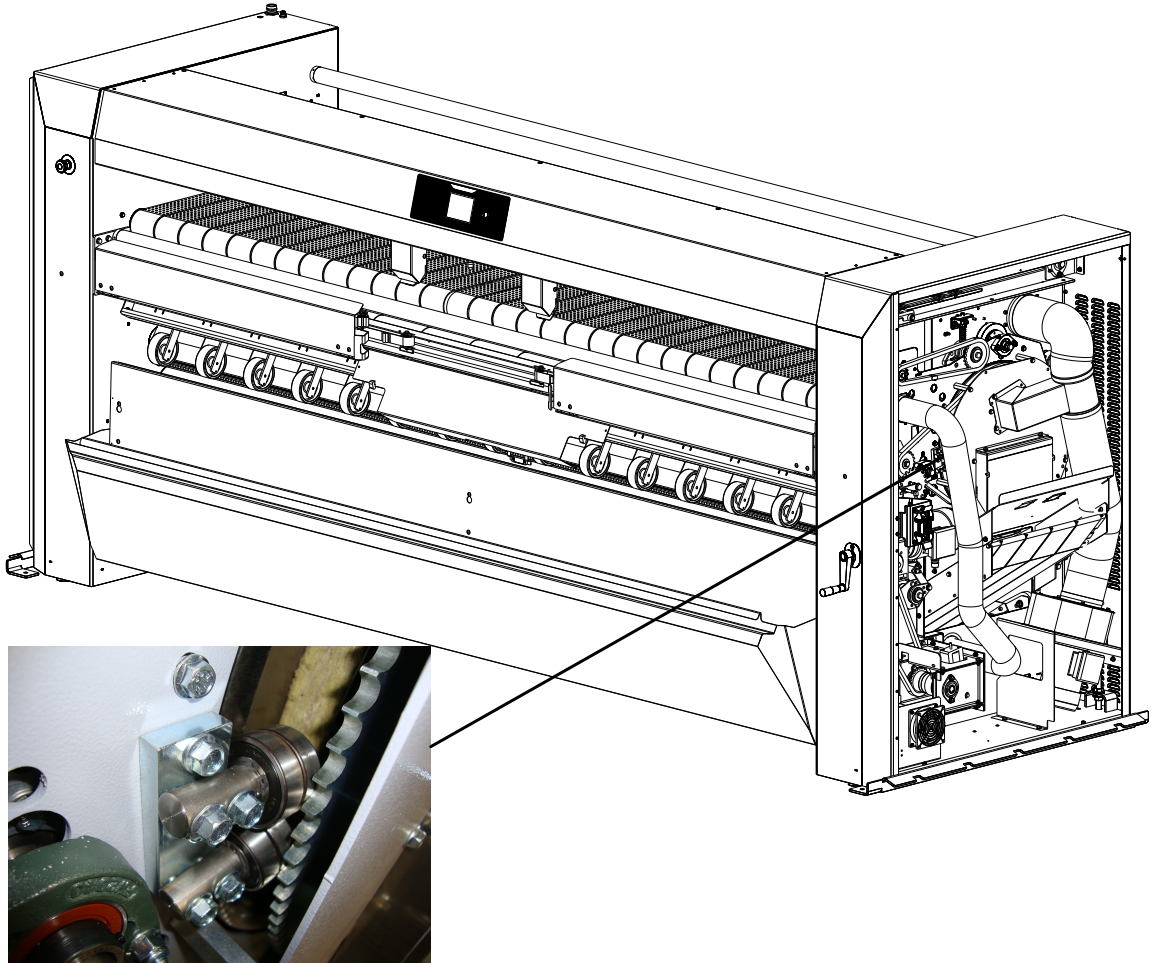


Caution



This check must be carried out when you install the machine **and once a month**.


If the rollers rotate permanently, you must call the technician to adjust the plate to avoid mechanical wear on the cylinder.



3.10 Before first use


3.10.1 Power on

At the first time, you power on the machine, you have to indicate 6 settings described in the following chapter.



Caution

Once the settings done in this section, you can change them in the settings menu (see user manual)



3.10.1.1 Power-on
1st time starting the machine

- 1
- At power-on the machine will start to show the Electrolux welcome page.



Note!
Although the machine has been tested at the factory and the controller has been set to certain default values, the machine being powered up for its first use on site, the controller will ask the operator to confirm or adapt the default values that will be used by controller.

3.10.1.1.1 Setting the language

- 1
- Select language to work with.

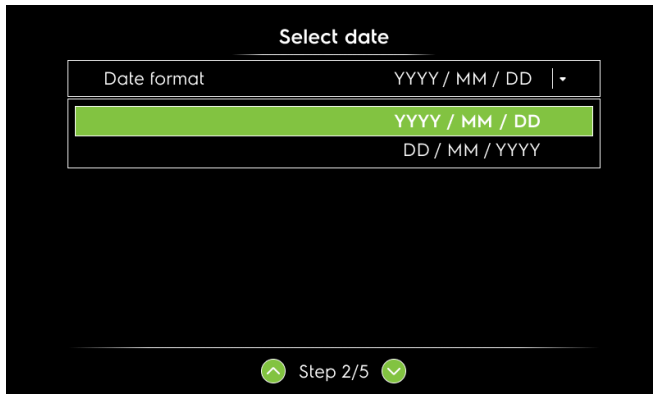


3.10.1.1.2 Setting the date


1

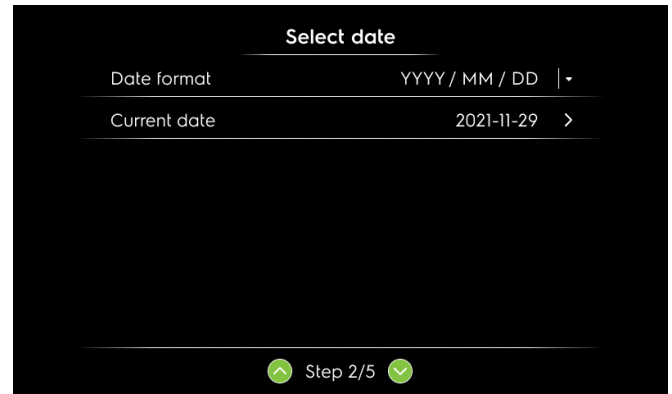
In this menu the date can be set:

- Press down arrow icon  to change Date format.
- Select date format.



2

- Controller shows the date further previous setting or set at the factory during test.
- Press arrow icon  behind the date to enter in date edition mode.



3

Set the date:


- Year, Month & date

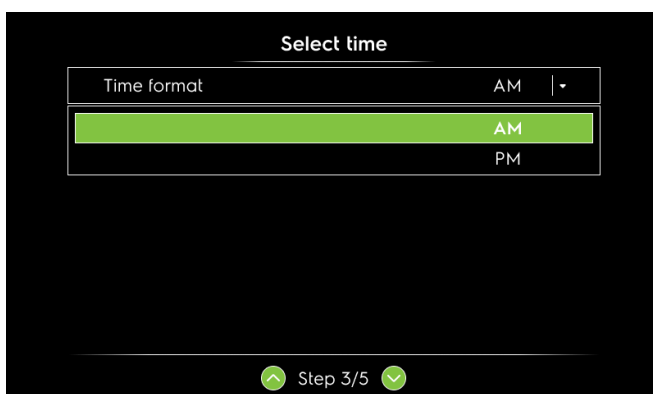


3.10.1.1.3 Setting of the time


1

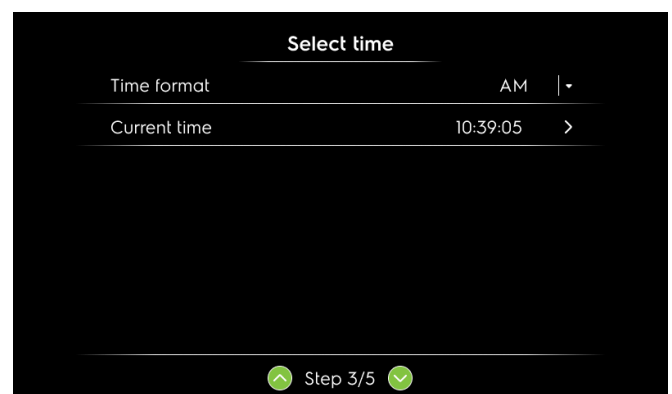
In this menu the time can be set:

- Press down arrow icon  to change time.



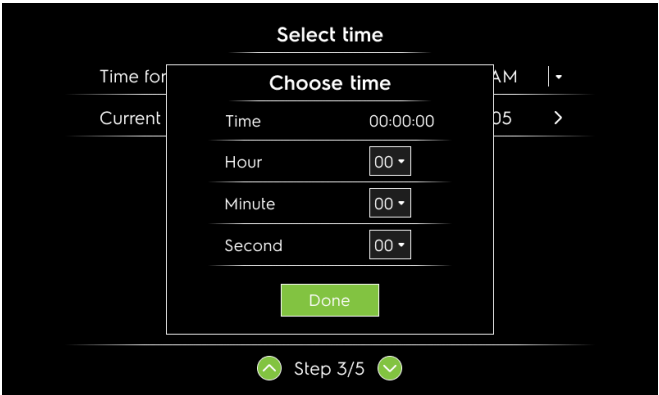
2

- Controller shows current time further previous setting or set at the factory during test.
- Press arrow icon  behind the time to enter in time edition mode.



- 3
- Set the time:
 - Hours, Minutes & seconds.

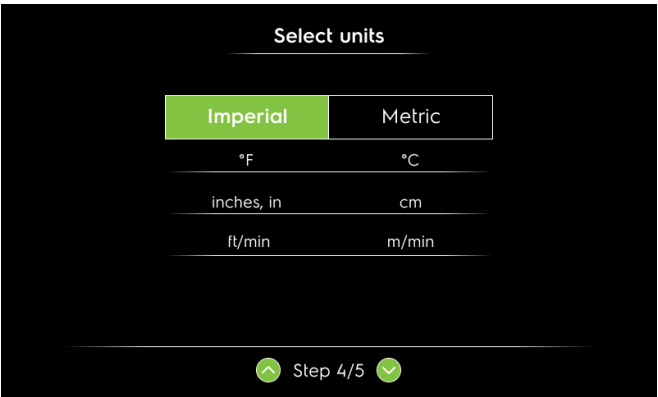
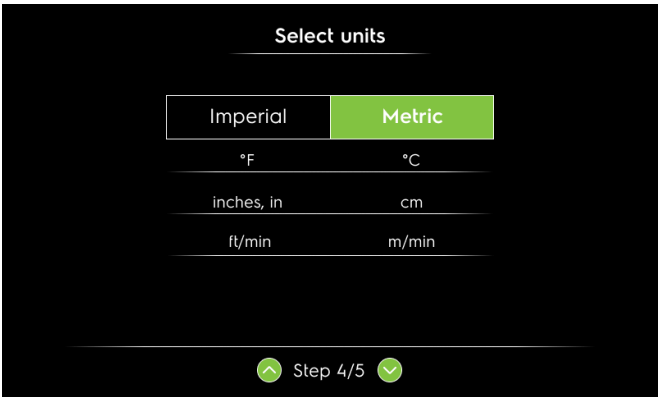
- 4
- Pressing on a value open a windows to set the figures.



3.10.1.1.4 Setting unit

- 1
- Step 4 Units setting.**
 - If no change requires press next green icon
 - Select units to be used by the controller.


- 2
- Highlighted title is the selected units.

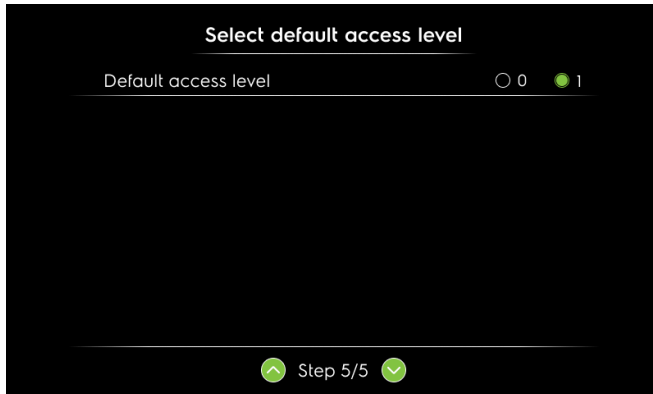


3.10.1.1.5 Section default level access

1

Select the default level access.

- If no change requires press next green icon .
- It is the default level access at machine power on.

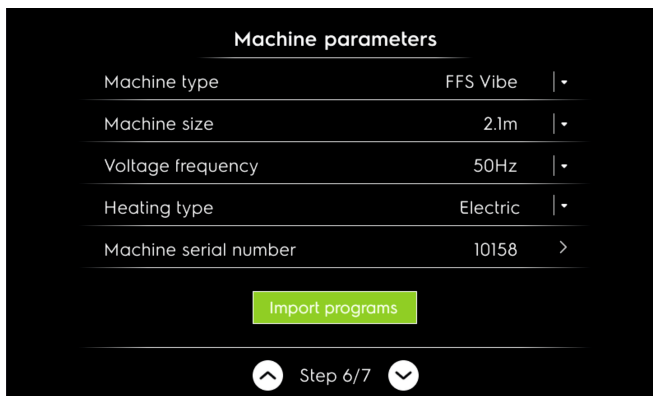


3.10.1.1.6 Define machine parameters

1

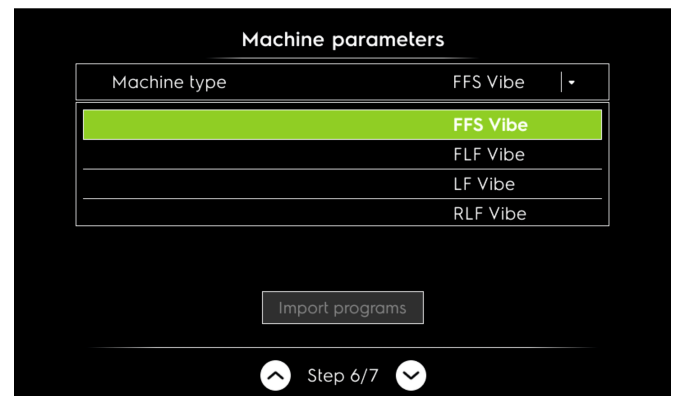
In this menu the machine parameters can be selected in order to upload the ironing programs dedicated to your product:

- Press down arrow icon  to change the machine type.



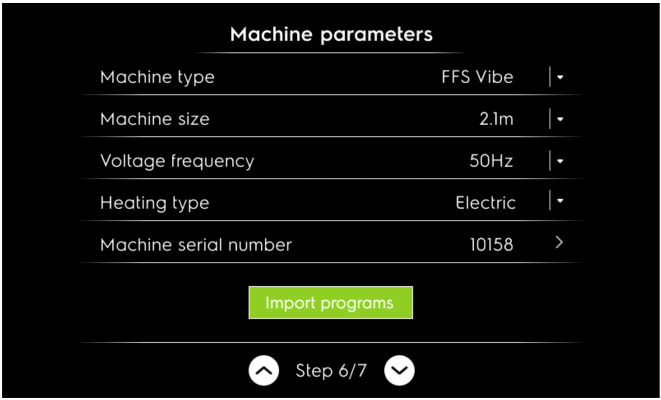
2

- Select the Machine type.



3

Select Import programs to upload the programs dedi-
cated to the machine type



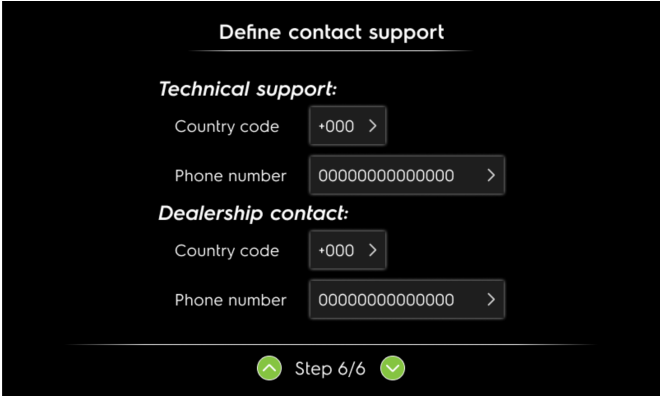
3.10.1.1.7 Setting contact support

1

Step 6 Contacts setting.
• Set the phone number of your technical local sup-
port (code coutry + phone number).

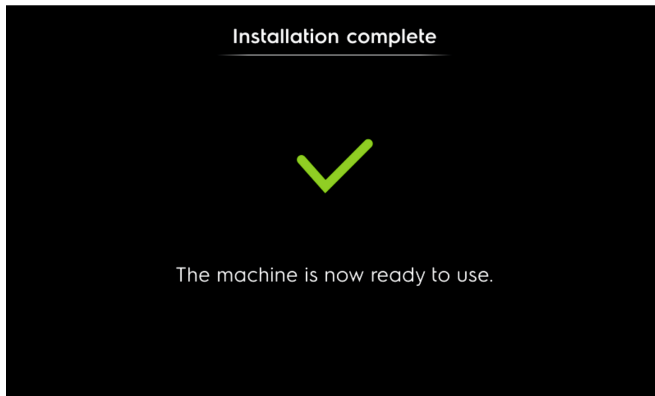
2

• set the phone number of your Electroluxprofes-
sional dealership contact.(code coutry + phone
number)



3.10.1.1.8 Installation complete

- 1 Installation is complete by the following screen.



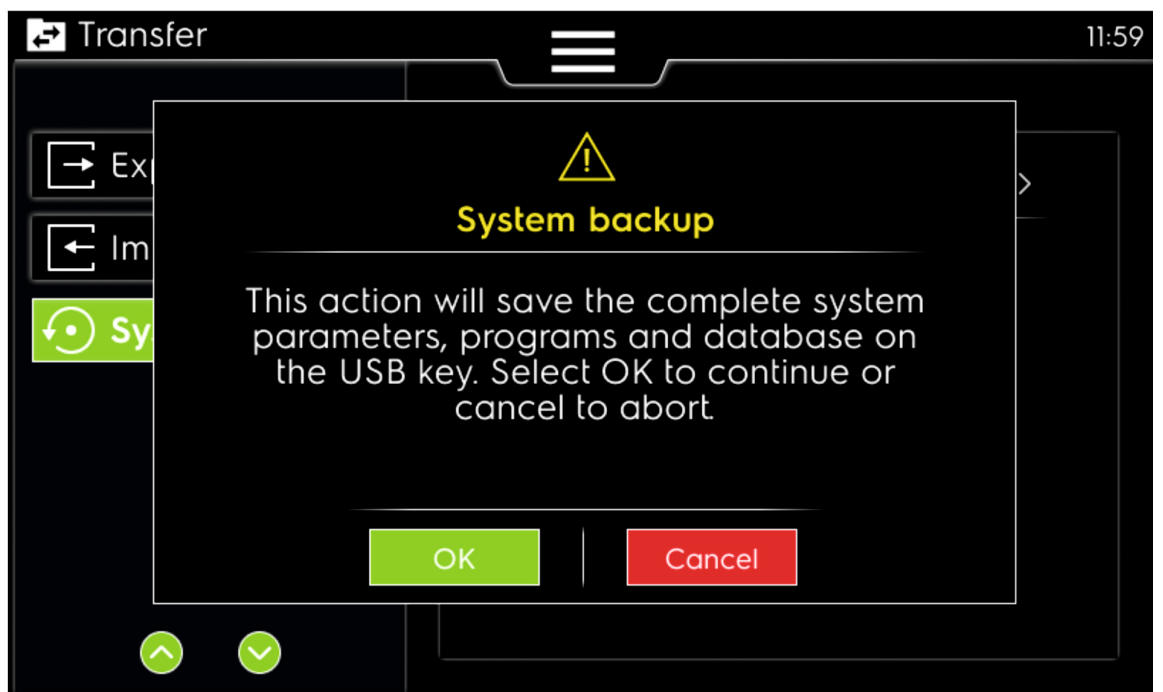
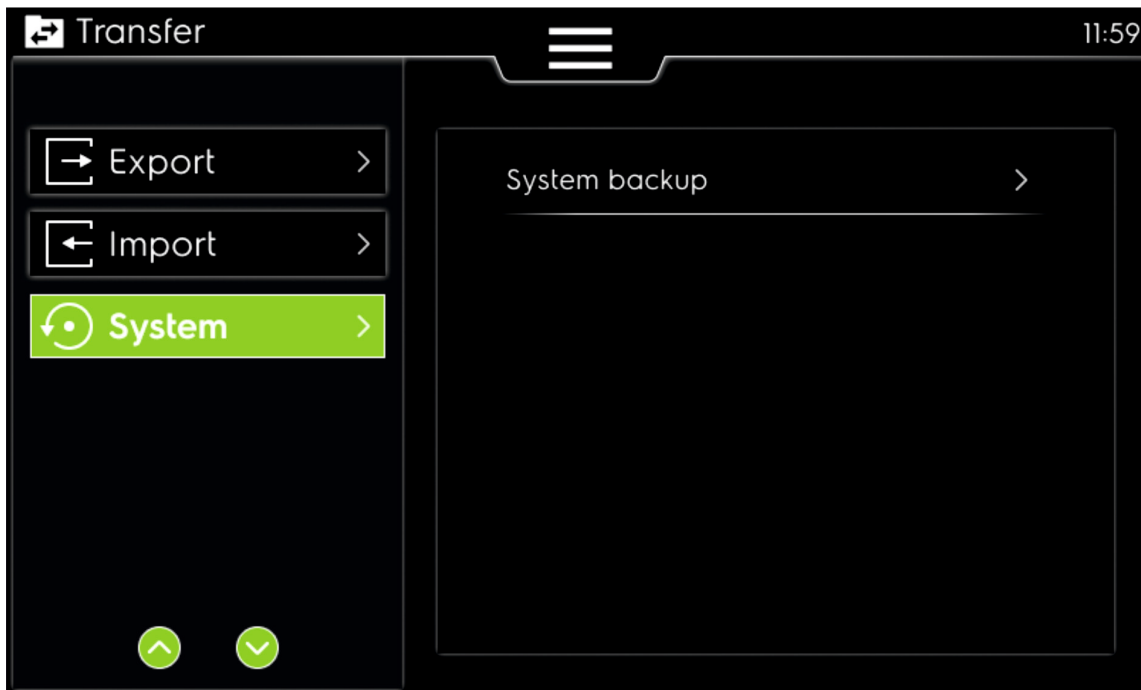
3.10.2 BACKUP OF THE SETTINGS VIA USB key :

To finalize the installation of your new ironer machine, you **MUST done the backup of the last settings done** during this installation.

To do this, you must retrieve the USB key delivered with your machine and back up your system.

Then, in the service menu, select 'Transfer' and 'System' then validate by press 'OK' and wait for the backup of your system to be completed.

You thus have a backup of the data frozen at the time T at the end of your installation.



4 Appendices

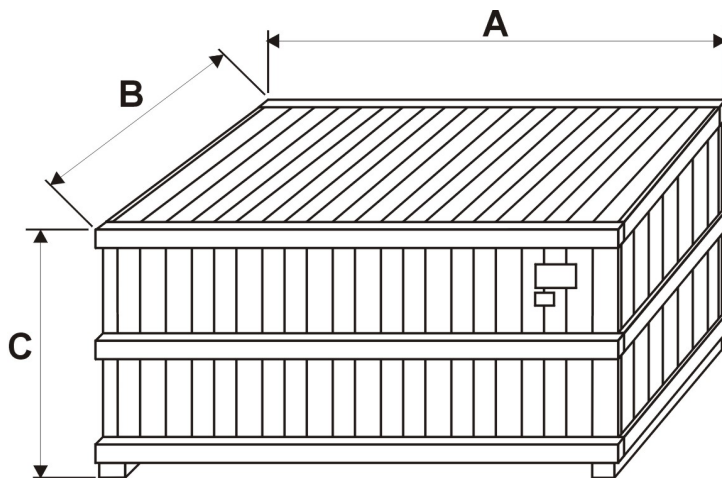
4.1 Packaging-Weight

The ironing machine is secured to a transport pallet.

Ironing width	Units	2.1 m	2.5 m	3.2 m
Packaging dimensions (pallet)				
Length (A)	mm / inch	2930 / 115	3280	3910
Width (B)	mm / inch	1270 / 50	1270 / 50	1270 / 50
Height (C)	mm / inch	1800 / 71	1800 / 71	1800 / 71
Packaging dimensions (crate)				
Length (A)	mm / inch	2930 / 115	3335	3965
Width (B)	mm / inch	1325 / 52	1325 / 52	1325 / 52
Height (C)	mm / inch	1890 / 75	1890 / 75	1890 / 75
Weight gas heating (machine + pallet)	kg / lb	1560 / 3440	1630 / 3595	1815 / 4005
Weight electric heating (machine + pallet)	kg / lb	1560 / 3440	1630 / 3595	1815 / 4005
Weight steam heating (machine + pallet)	kg / lb	1640 / 3615	1735 / 3825	1930 / 4255

The **stacker** is delivered on a specific pallet :

weight : 212 kg (408 lbs) (stacker) — 345 kg (760 lbs) (stacker + pallet)



1 : Identification plate

2 : Adjustment label (for gas machine only)

4.2 Technical characteristics

A : Front View

B : Left View

[illegible]

Characteristics / type machine		Units	4821	4825	4832
A	Overall width	mm / inch	3780 / 149	4185 / 165	4815 / 190
B	Ironer width	mm / inch	2800 / 110	3205 / 127	3835 / 151
C	Width between feet	mm / inch	2620 / 103	2925 / 115	3555 / 140
	Cylinder diameter Gas / Electric heating	mm / inch	479 / 19	479 / 19	479 / 19
	Cylinder diameter Steam heating	mm / inch	457 / 18	457 / 18	457 / 18
	Effective working width	mm / inch	2120 / 84	2540 / 100	3170 / 125
	Ironer Floor area	m ² / ft ²	2.6 / 28	3.78 / 40.7	4.52 / 48.7
	Stacker Floor area	m ² / ft ²	1.78 / 19.2	1.78 / 19.2	1.78 / 19.2
	Ironer net weight Gas heating / Dubixium cylinder	kg / lb	1405 / 3098	1545 / 3406	1715 / 3781
	Ironer net weight Electric heating / Dubixium cylinder	kg / lb	1405 / 3098	1545 / 3406	1715 / 3781
	Ironer net weight Steam heating	kg / lb	1485 / 3274	1650 / 3638	1830 / 4035
	Stacker net weight	kg / lb	212 / 468	212 / 468	212 / 468
	Ironing speed mini	m/min (ft/min)	1.5 (5)	1.5 (5)	1.5 (5)
	Ironing speed maxi	m/min (ft/min)	11 (36)	11 (36)	11 (36)
	Heating surface Gas / Electric heating	m ² / ft ²	2.2 / 24	2.9 / 31	3.6 / 39
	Heating surface Steam heating	m ² / ft ²	2.1 / 23	2.7 / 29	3.4 / 37
Connections					
F	Main switch to connect electric main cable				
G	Inlet for electric main cable				
H	Steam inlet	mm / inch	20 (3/4")	20 (3/4")	20 (3/4")
	Maximum supply pressure	kPa / psi	1000 / 145	1000 / 145	1000 / 145
I	Condensate return	mm / inch	10 (3/8")	10 (3/8")	10 (3/8")
J	Gas Inlet	mm(")	20 (3/4")	20 (3/4")	20 (3/4")
K	Drain of vapour or burnt gas	Ø mm / "	150 / 6	150 / 6	150 / 6
	Exhaust air max. with no pressure at 15°C Gas heating	m ³ / h	830	950	1010
	Exhaust air max. with no pressure at 15°C Electrical & Steam heating	m ³ / h	740	880	960
	Total pressure with no flow	Pa / PSI	880 / 0.127	880 / 0.127	880 / 0.127
	Admissible pressure drop on evacuation	Pa / PSI	200 / 0.03	200 / 0.03	200 / 0.03
L	Air inlet	Ø mm	6/8	6/8	6/8
	Air pressure , mini-maxi	bar	5.5–7	5.5–7	5.5–7
	Consumption	l/h	280	280	280
Consumptions					
Gas heating / Dubixium cylinder					
	Installed electric power	kW	2.9	2.9	3.2
	Installed heating power	kW	44	52	65
	Maximum electrical consumption	kWh	2.7	2.7	3
	Max. water evaporation capacity With 50 % residual moisture content and 100 % cylinder utilization (according to ISO 93.98 standard).	kg/h	37	46	59
Electric heating / Dubixium cylinder					
	Installed electric power	kW	37.7	46.10	56.75
	Installed heating power	kW	37.2	43.20	53.55
	Maximum electrical consumption	kWh	36.45	44.25	54.48

Max. water evaporation capacity With 50 % residual moisture content and 100 % cylinder utilization (according to ISO 93.98 standard).	kg/h	40	48	59
---	------	----	----	----

Steam heating

Installed electric power	kW	2.9	2.9	3.2
Maximum electrical consumption	kWh	2.7	2.7	3
Maximum steam consumption at 900 kPa	kg/h	92	110	141
Inner volume steam cylinder	dm ³ / cu ft	335 / 12	398 / 14	497 / 18
Max. water evaporation capacity With 50 % residual moisture content and 100 % cylinder utilization (according to ISO 93.98 standard).	kg/h	63	75	93

Heat loss (3% of installed heating power)

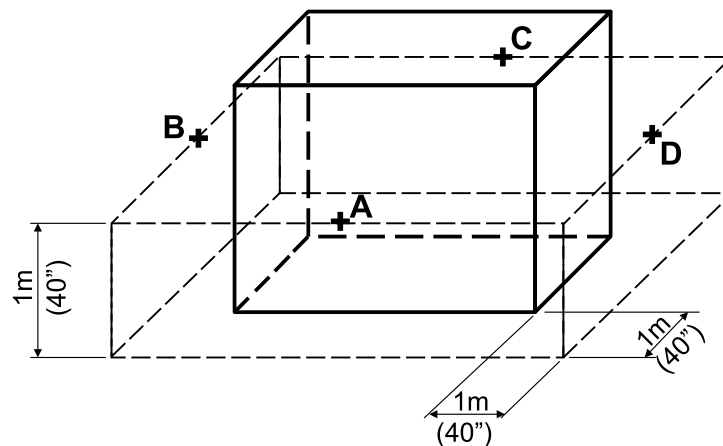
4.3 Supplies

You can take the box placed inside of the casing.

1. Accessories delivered with each machine
 - 1 Installation handbook.
 - 1 Operating handbook.
 - 2 Electrical schematics.
 - 1 Commissioning form to be completed to validate the warranty.
 - 1 Maintenance poster to put on the wall near the machine.
 - 3 keys for casings
 - 2 screws to maintain the cylinder in high position to do the maintenance of bearing support cylinder.
 - 2 locking system for flap linen collector (see chapter remove of the transport locks fitted (part 3))
2. Accessories delivered with each gas heating machine
 - 1 draught accelerator to extract the exhaust of burn gas, to be connected at the chimney (in 3 parts)

4.4 Sound level

Airborne noise emitted by the machine (values established as from measurements made on the machine at points A, B, C, D).



Ironing width		2.1 m	2.5m	3.2 m
Weighted acoustic pressure level (A) in dB(A)	Point A	73	73	73
	Point B	72	72	72
	Point C	72	72	72
	Point D	72	72	72



Important



This ironing machine should only be used for previously washed and pre-dried, machine-ironable textiles.



Important



In this normal case of use, it is not necessary to connect the exhaust duct to the open air.

In the opposite case, the exhaust duct must be connected to the open air, by the shortest way, and with as few bents as possible.

Incline the flexi-hose downwards, as compared to the machine.

Protect the end of the exhaust duct from the bad weather.

Do not connect the exhaust duct to a gas, coal, fuel oil furnaces chimney. Separate it also from any other ducting (tumble dryer, finishing cabinet).

4.5 Electric power supply :

The feeder cable sections mentioned in our literature are given **only as a guide** .

To obtain a value perfectly suited to your own application and which takes account of the different correction factors in respect of your plant, refer to the tables below.

4.5.1 TABLE 1 (in accordance with EN standard 60204–1)

Values given for :

Cable with copper conductors.

Cable with PVC insulation (for other insulants see TABLE 3).

Ambient temperature 40°C max. (for others see TABLE 2)

Three-phase cable under load without including starting currents.

BT / C / E cable layout.

MAXIMUM ADMISSIBLE CURRENT

Cable section	Seated in Cable Duct or Cable Trough B2	Wall Fixing C	Cable Tray E
3 x 1.5 mm ² — AWG 16	12.2 A	15.2 A	16.1 A
3 x 2.5 mm ² — AWG 14	16.5 A	21 A	22 A
3 X 4 mm ² — AWG 12	23 A	28 A	30 A
3 x 6 mm ² — AWG 10	29 A	36 A	37 A
3 x 10 mm ² — AWG 8	40 A	50 A	52 A
3 x 16 mm ² — AWG 6	53 A	66 A	70 A
3 x 25 mm ² — AWG 4	67 A	84 A	88 A
3x 35 mm ² — AWG 2	83 A	104 A	114 A
3 x 50 mm ² — AWG 1–1/10	-	123 A	123 A
3 x 70 mm ² — AWG 2/0	-	155 A	155 A

4.5.2 TABLE 2 correction factors for different ambient temperatures :

Ambient temperature	Correction factor
30 ° C (86° F)	1.15
35 ° C (95° F)	1.08
40 ° C (104° F)	1
45 ° C (113° F)	0.91
50 ° C (122° F)	0.82
55 ° C (131° F)	0.71
60 ° C (140° F)	0.58

4.5.3 TABLE 3 correction factors for different cable insulating materials :

Insulating material	Maximum working temperature range	Correction factor
PVC	70 ° C (158° F)	1
Natural or Synthetic Rubber	60° C (140° F)	0.92
Silicone Rubber	120° C (248° F)	1.60

4.5.4 TABLE 4 B2, C and E correction factors for cable grouping :

	B2	C	E
Number of cables	Seated in Cable Duct	Wall fixing or Cable Trough	Cable Tray
1	1.00	1.00	1.00
2	0.80	0.85	0.87
4	0.65	0.75	0.78
6	0.57	0.72	0.75
9	0.50	0.70	0.73

4.5.5 Calculation

The total current included for using Table 1 should be the maximum rated current for the machine divided by the product of the different correction factors. Other correction factors may also be applied ; consult cable manufacturers.

Calculation : example

The machine has a rated current of 60 A

The ambient temperature is 45°C ; Table 2 gives a correction factor of 0.91.

Rubber cable insulant : Table 3 gives a correction factor of 0.92.

The cable is fixed directly to the wall (Column C), with 2 cables side by side. The Table 4 gives a correction factor of 0.85.

Total current : 60A = **84A**

.....0.91x0.92x0.85.....

Taking Column C in Table 1 (wall fixing), we obtain a minimum cable section of : **3x 25 mm² — 3 x AWG 4**

4.5.6 Electrical Standard characteristics for IV6xxxxFFS

Machine Type xxxx	Heating	Supply Voltage	Installed Power	Rated Intensity	Connection Cable Section	Main Circuit Breaker or Fuse
4821	Steam / Gas	400 V / 3 / 50–60 Hz 230 V / 3 / 50 208–240 V / 3 / 60 Hz 480 V / 3 / 60 Hz	1.75 kW 1.5 kW	5 A 7.5 A	4 X 2.5 mm ² 4 x AWG 14	3 x 16 A 3 x 15 a
	Electric	400 V / 3 / 50–60 Hz	38.2 kW	45 A	4 x 16 mm ²	3 x 63 A
4825	Steam / Gas	400 V / 3 / 50–60 Hz 230 V / 3 / 50 208–240 V / 3 / 60 Hz 480 V / 3 / 60 Hz	2.9 kW 1.5 kW	5 A 7.5 A	4 X 2.5 mm ² 4 x AWG 14	3 x 16 A 3 x 15 a
	Electric	400 V / 3 / 50–60 Hz	46.10 kW	67 A	4 x 16 mm ²	3 x 80 A
4832	Steam / Gas	400 V / 3 / 50–60 Hz 230 V / 3 / 50 208–240 V / 3 / 60 Hz 480 V / 3 / 60 Hz	3.2 kW 1.5 kW	5 A 7.5 A	4 X 2.5 mm ² 4 x AWG 14	3 x 16 A 3 x 15 a
	Electric	400 V / 3 / 50–60 Hz	56.75 kW	82 A	4 x 25 mm ²	3 x 100 A

4.6 Gas setting characteristics IV6 48xx :**Caution**

The installation, connection and gas arrival adjustments for the machine must be done by qualified personnel only.

4.6.1 Legend of symbols used :

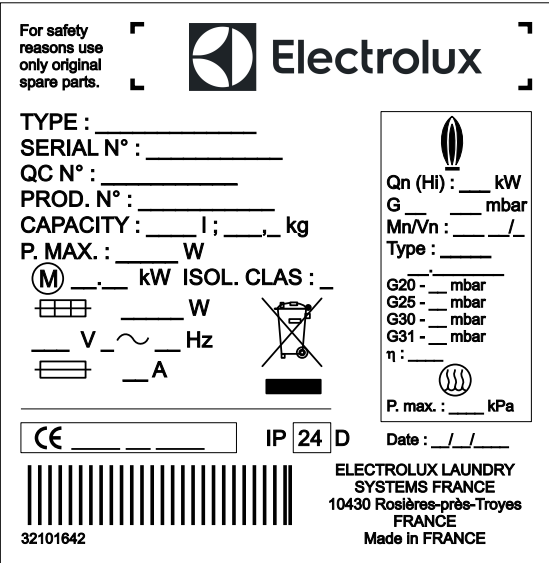
- I : Machine working with only one gas family
- II : Machine working with two gas families
- 1 : 1st family : coal gas or town gas (for information : not used here)
- 2 : 2nd family : Natural gas
- 3 : 3rd family : liquefied petroleum gas (LPG)
- H : Natural gas with high calorific value (type G20)
- L : Natural gas with low calorific value (type G25)
- E : Natural gas with high and low calorific value (type G20)
- LL : Natural gas with low calorific value (type G25)
- Esi : Natural gas with high and low calorific value with adjustment (type G20)
- B : Butane gas (type G30)
- P : Propane gas (type G31)
- B/P : Butane and propane gas (type G30 and G31)
- 3+ : Butane/Propane gas with couple of pressure 30/37 (type G30 and G31)

AT : Austria	FR : France	MT : Malta
BE : Belgium	GB : Great Britain	NL : Netherlands
BG : Bulgaria	GR : Greece	NO : Norway
CH : Switzerland	HU : Hungary	PL : Poland
CY : Cyprus	HR : Croatia	PT : Portugal
CZ : Czech Republic	IE : Ireland	RO : Romania
DE : Germany	IS : Iceland	SE : Sweden
DK : Denmark	IT : Italy	SI : Slovenia
EE : Estonia	LT : Lithuania	SK : Slovakia
Es : Spain	LU : Luxemburg	TR : Turkey
FI : Finland	LV : Latvia	

Qn (Hi) : Nominal heat emission express in relation to the net calorific value.

Mn : Nominal mass (for butane/propane gas).

Vn : Nominal volume (for natural gas)

	Country	Category	Gas	Pressure (mbar)
 <p>For safety reasons use only original spare parts.</p> <p>Electrolux</p> <p>TYPE : _____ SERIAL N° : _____ QC N° : _____ PROD. N° : _____ CAPACITY : _____ l ; _____ kg P. MAX. : _____ W () _____ kW ISOL. CLAS : _____ _____ W _____ V ~ _____ Hz _____ A</p> <p>Qn (Hi) : _____ kW G : _____ mbar Mn/Vn : _____ / _____ Type : _____ G20 : _____ mbar G25 : _____ mbar G30 : _____ mbar G31 : _____ mbar η : _____ P. max. : _____ kPa</p> <p>CE _____ IP 24 D Date : ____/____/____ ELECTROLUX LAUNDRY SYSTEMS FRANCE 10430 Rosières-près-Troyes FRANCE Made in FRANCE</p> <p>32101642</p>	AT	II2H3B/P	G20	20
	DE — LU	II2E3B/P	G31	50
	BE	I2E(R)B;I3+	G20/ G25	20/25
	BG — DK — EE — FI — HR — HU — SE — RO — TR	II2H3B/P	G31	37
	FR	II2Esi3P	G20/ G25	20/25
	CH — CY — CZ — ES — GB — GR — IE — IT — LT — PL — PT — SI — SK	II2H3+	G31	37/50
	CH — ES — LV	II2H3P	G20	20
	NL	II2L3P	G31	50
	NO	I3B/P	G25	25
	DE — MT	I3P	G31	50
			G31	50
			G31	50
			G31	50
			G31	50
			G31	50

4.6.2 Testing pressure :

According to the EN 437 standard, the values of the testing pressures mentioned in our various documents are values for static pressures taken at the gas inlet connection of the machine ; heating of the machine being on.

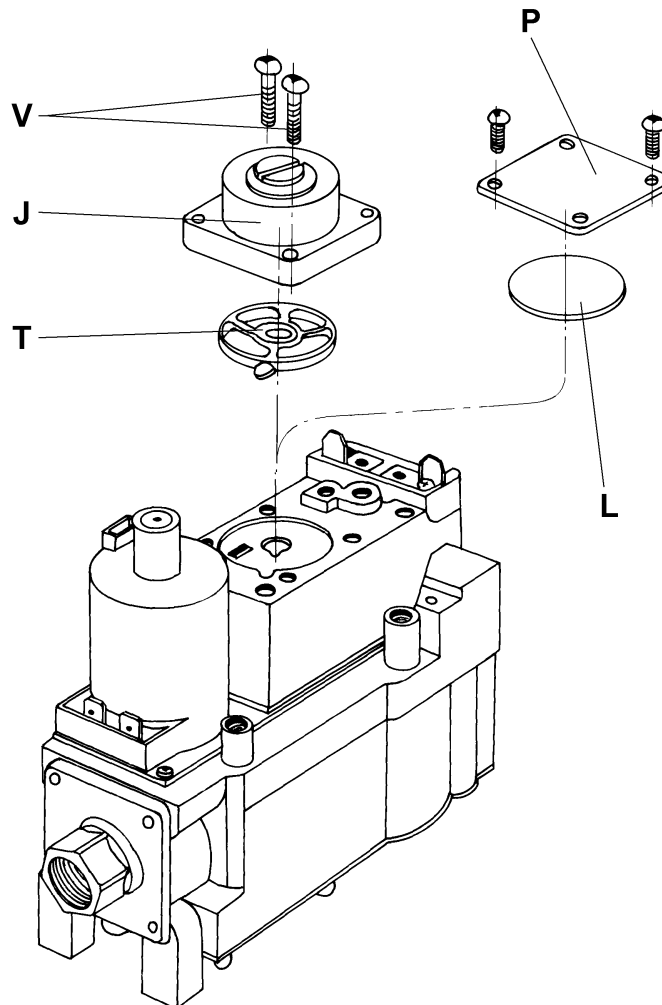
4.6.3 Setting gas adjustment :

The machine is adjusted at the plant to be suitable for the kind of gas specified on the order. If you have to supply your machine with gas in a family different from the gas for which your machine was adjusted , proceed as follows : Check that the diameter of the injectors is adequate for the kind of gas of your installation (see Table of injectors below). The machine is delivered with extra injectors in a plastic envelope.

4.6.3.1 Changing to a gas in the same family (Type H or L):

Adjust the gas outlet pressure (see correspondence in the tables below)

4.6.3.2 Changing to a gas in a different family (from type H or L to butane or propane)



Change the 3 injectors with joints (see correspondence in the tables)

Unscrew the fixing screws (V) and remove the adjusting head (J) as well as its cork (T), keep these parts in case a change would be necessary.

Replace it by the cork (L) and the plate (P).

Screw the 2 screws and block.

4.6.3.3 Changing to a gas in a different family (from butane or propane to type H or L)

Change the 3 injectors with joints (see correspondence in the tables)

Unscrew the fixing screws (V) and remove the plate (P) as well as its cork (L), keep these parts in case a change would be necessary.

Replace it by the cork (T) and the adjustment head (J).

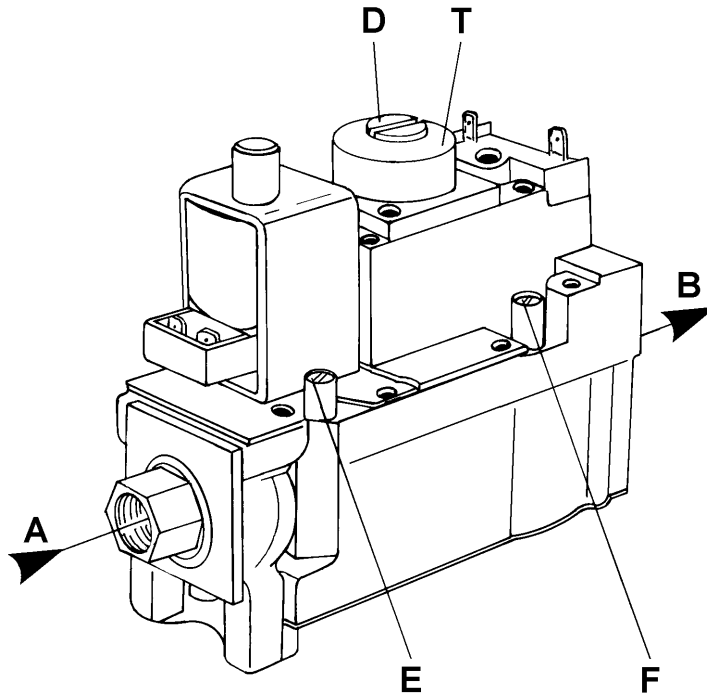
Screw the 2 screws (V) and block.

**Important**

Adjustments should be made by qualified personnel only.

4.6.4 Adjustment and checking of the outlet pressure

The gas outlet pressure of the solenoid valve is adjusted at the factory. If you have to make another adjustment, proceed as follows :



- **A** : Inlet
- **B** : Outlet
- **D** : Outlet pressure regulator

Adjustment screw plug

- **E** : Inlet pressure tapping
- **F** : Outlet pressure tapping
- **T** : Head regulation

1 : Close the gas inlet and remove the binding screw from the pressure tapping (F) and connect the manometer tube.

2 : The electricity supply must be energized otherwise gas will not be supplied to the burner.

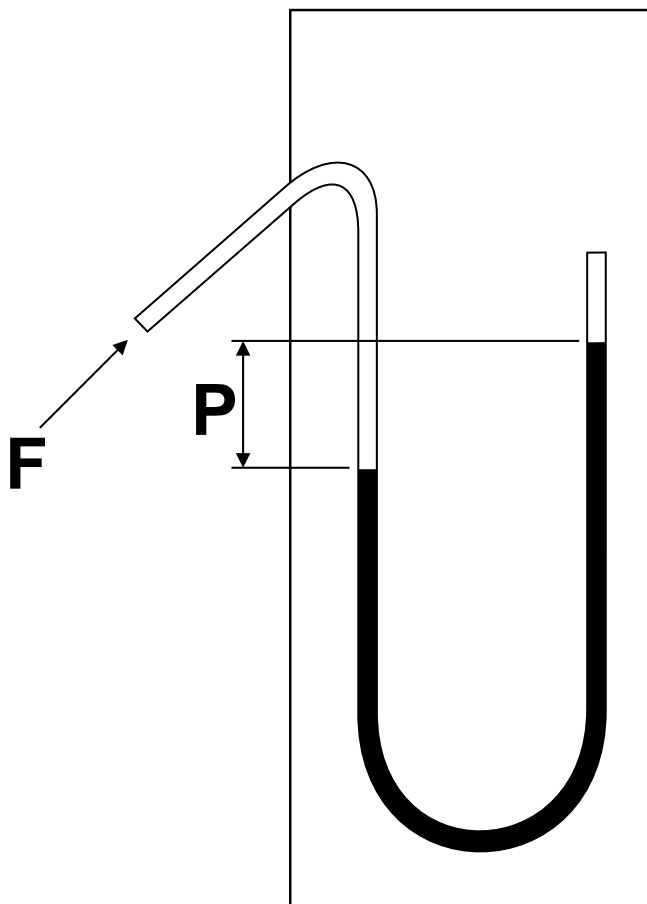
3 : Open and check the gas inlet main burner using the manometer on the pressure tapping (F)

4 : Remove pressure regulator cap (D)

5 : Using a screwdriver , slowly turn the adjustment screw until the required pressure (P) is indicated on manometer (see tables on following pages).

Turn the adjustment screw clockwise to increase and counter-clockwise to decrease gas pressure.

6 : Reset the pressure regulator cap, close off the gas inlet, remove the manometer tube and put the binding screw back in (F).



4.6.5 Tables of Correspondences :

TABLE OF CORRESPONDENCES : IRONER 4821								
Category Index	Type of Gas	Working supply pressure in mbar (kPa) (inch w.c.)	Hi	Diameter of injectors in mm	Pressure at injectors in mm H ₂ O (kPa) (inch w.c.)	Heat emission Qn in kW (Btu/h) (Hi)	Consumption Mn in kg/h	Consumption Vn in M3/h
*2E, 2H , 2ESI	G20	20 (2) (8)	34.02 MJ/M3	3.40	102 (1) (4.01)	44 (150128)	-	4.65
2L, 2ESI	G25	25	29.25 MJ/M3	3.40	143 (3.5) (14)	44 (150128)	-	5.41
3+	G30 G31	28–30 37 (3.7) (14.9)	45.65 MJ/kg 46.34 MJ/kg	1.95 1.95	. .	44 (150128) 44 (150128)	3.46 3.41	- -
3 P	G31	50	46.34 MJ/kg	1.80	-	44 (150128)	3.41	-
* For Belgium, no work is allowed between G20 and G25								

TABLE OF CORRESPONDENCES : IRONER 4825								
Category Index	Type of Gas	Working supply pressure in mbar	Hi	Diameter of injectors in mm	Pressure at injectors in mm H ₂ O (kPa) (inch w.c.)	Heat emission Qn in kW (Btu/h) (Hi)	Consumption Mn in kg/h	Consumption Vn in M3/h
*2E, 2H , 2ESI	G20	20 (2) (8)	34.02 MJ/M3	3.70	100 (0.98) (3.94)	52 (177424)	-	5.50
2L, 2ESI	G25	25	29.25 MJ/M3	3.70	135 (3.5) (14)	52 (177424)	-	6.40
3+	G30 G31	28–30 37 (3.7) (14.9)	45.65 MJ/kg 46.34 MJ/kg	2.10 2.10	. .	52 (177424) 52 (177424)	4.10 4.04	- -
3 P	G31	50	46.34 MJ/kg	2.00	-	52 (177424)	4.04	-
* For Belgium, no work is allowed between G20 and G25								

TABLE OF CORRESPONDENCES : IRONER 4832								
Category Index	Type of Gas	Working supply pressure in mbar	Hi	Diameter of injectors in mm	Pressure at injectors in mm H ₂ O (kPa) (inch w.c.)	Heat emission Qn in kW (Btu/h) (Hi)	Consumption Mn in kg/h	Consumption Vn in M3/h
*2E, 2H , 2ESI	G20	20 (2) (8)	34.02 MJ/M3	4.00	114 (1.12) (4.49)	65 (221780)	-	6.87
2L, 2ESI	G25	25	29.25 MJ/M3	4.00	160 (3.5) (14)	65 (221780)	-	7.99
3+	G30 G31	28–30 37 (3.7) (14.9)	45.65 MJ/kg 46.34 MJ/kg	2.30 2.30	. .	65 (221780) 65 (221780)	5.12 5.05	- -
3 P	G31	50	46.34 MJ/kg	2.10	-	65 (221780)	5.05	-
* For Belgium, no work is allowed between G20 and G25								



Important



G20 (H) = natural gas , Lacq Type (20 mbar)G25 (L) = natural gas , Groningue Type (20 or 25 mbar)G30 (H) = Butane gas (28/30, 50 mbar)G31 = Propane gas (28/30, 37 , 50 mbar)



Important



Tightness test after installation

The gas leak test is performed as follows :

- 1/ Paint pipe joints, pilot gas tubing connections and inspect outlets with rich soap and water solution ; do not use an aggressive soap.
- 2/ Put the machine into service. Bubbles indicate a gas leak.
- 3/ Eliminate this leak.

**Caution****Check-out**

Before leaving, put the appliance into operation and allow to run a complete cycle. Watch to ensure that all burner system components function correctly.
















4.7 Explanation of washing symbols

(ISO 3758:2005 standard)

To overcome language barriers, the following are symbols used internationally to give you guidance and recommendations when washing different textiles.




4.7.1 Washing

The tub symbolizes washing.

Symbols	Max. washing temperature in °C (°F)	Mechanical action
	95 (203)	normal
	95 (203)	mild
	70 (158)	normal
	60 (140)	normal
	60 (140)	mild
	50 (122)	normal
	50 (122)	mild
	40 (104)	normal
	40 (104)	mild
	40 (104)	very mild
	30 (86)	normal
	30 (86)	mild
	30 (86)	very mild
	40 (104)	wash by hand
	-	do not wash




4.7.2 Bleaching

The triangle symbolizes bleaching.

Symbols	Explanation
	Bleaching allowed (chlorine or oxygen).
	Bleaching allowed (only oxygen).
	Do not bleach.





4.7.3 Drying

The circle in a square symbolizes tumble drying.

Symbols	Explanation
	Can be put in a tumble dryer. Normal temperature.
	Can be put in a tumble dryer. Lower temperature.
	Do not put in a tumble dryer.









4.7.4 Ironing

The iron symbolizes the domestic ironing and pressing process.

Symbols	Explanation
	Max. temperature 200 °C.
	Max. temperature 150 °C.
	Max. temperature 110 °C. The steam can cause irreversible damages.
	Do not iron.

4.7.5 Dry or water cleaning

The circle symbolizes dry or water cleaning.

Symbols	Explanation
	Normal dry cleaning with perchloroethyl, solvent of hydrocarb.
	Mild dry cleaning with perchloroethyl, solvent of hydrocarb.
	Normal dry cleaning with solvent of hydrocarbon.
	Mild dry cleaning with solvent of hydrocarbon.
	Do not dry clean.
	Normal water cleaning.
	Mild water cleaning.
	Very mild water cleaning.

4.8 Conversion of measurement units

This following is a list of correspondences of the main frequency used units, to avoid the need to use measurement unit conversion table.

bar	1 bar = 100 000 Pa 1 bar = 1.019 7 kg/cm ² 1 bar = 750.06 mm Hg 1 bar = 10 197 mm H ₂ O 1 bar = 14.504 psi	British thermal unit	1 Btu = 1 055.06 J 1 Btu = 0.2521 kcal
calorie	1 cal = 4.185 5 J 1 cal = 10–6 th 1 kcal = 3.967 Btu 1 cal/h = 0.001 163 W 1 kcal/h = 1.163 W	Continental horse power	1 ch = 0.735 5 kW 1 ch = 0.987 0 HP
cubic foot	1 cu ft = 28 316 8 dm ³ 1 cu ft = 1 728 cu in	cubic inch	1 cu in = 16.387 1 dm ³
foot	1 ft = 304.8 mm 1 ft = 12 in	gallon (U.K.)	1 gal = 4.545 96 dm ³ or l 1 gal = 277.41 cu in
gallon (U.S.A.)	1 gal = 3.785 33 dm ³ or l 1 gal = 231 cu in	horse power	1 HP = 0.745 7 kW 1 HP = 1.013 9 ch
inch	1 in = 25.4 mm	joule	1 J = 0.000 277 8 Wh 1 J = 0.238 92 cal
kilogramme	1 kg = 2.205 62 lb	kg/cm²	1 kg/cm ² = 98 066.5 Pa 1 kg/cm ² = 0.980 665 bar 1 kg/cm ² = 10 000 mm H ₂ O 1 kg/cm ² = 735.557 6 mm Hg
pound	1 lb = 453.592 37 g	meter	1 m = 1.093 61 yd 1 m = 3.280 83 ft 1 m = 39.37 in
cubic meter	1 m ³ = 1 000 dm ³ 1 m ³ = 35.214 7 cu ft 1 dm ³ = 61.024 cu in 1 dm ³ = 0.035 3 cu ft	pascal	1 Pa = 1 N/m ² 1 Pa = 0.007 500 6 mm Hg 1 Pa = 0.101 97 mm H ₂ O 1 Pa = 0.010 197 g/cm ² 1 Pa = 0.000 145 psi 1 MPa = 10 bar
psi	1 psi = 0.068947 6 bar	thermie	1 th = 1 000 kcal 1 th = 10+6 cal 1 th = 4.185 5 x 10+6 J 1 th = 1.162 6 kWh 1 th = 3 967 Btu
watt	1 W = 1 J/s 1 W = 0.860 11 kcal/h	watt-hour	1 Wh = 3 600 J 1 kWh = 860 kcal
yard	1 yd = 0.914 4 m 1 yd = 3 ft 1 yd = 36 in	temperature degrees	0 °K = —273.16 °C 0 °C = 273.16 °K t °C = 5/9 (t °F-32) t °F = 1.8 t °C + 32



Electrolux Professional AB
341 80 Ljungby, Sweden
www.electroluxprofessional.com