Installation manual Washer-extractors

WB6 70- WB6 90 – WB6 110 Clean Room





Electrolux PROFESSIONAL

original instructions

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

1 Safety precautions



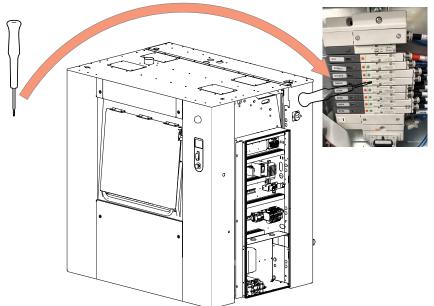
This machine should be installed in conformance to the health and safety regulations, and only used in a sufficiently aerated area. Check the instructions before installing or using the machine.

CAUTION

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Before any use, to retire all the parts needed to install the machine put in the drum , please follow these actions $% \left({{\left[{{{\rm{B}}_{\rm{B}}} \right]}_{\rm{B}}} \right)$

- 1. connect compressed air.
- 2. Remove the side housing cabinet.
- 3. Push on the orange button of the D9/D10 distribution unit in the electric cabinet. (see drawing below)



- 4. Open the loading door.
- 5. Open the drum doors , with precautions, maintain the 2 doors.
- 6. Get the package and instructions.

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CAUTION

Users must have learnt how the machine operates.

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

The machine is only intended for water-wash use.

Do not allow minors to use the machine.

Do not hose down the machine with water.

Only use detergent intended for water-wash of textiles Never use dry cleaning agents. It is forbidden to wash textiles soaked with solvents.

The machine's door lock must under no circumstances be bypassed.

If the machine develops a fault, this must be reported to the person in charge as soon as possible. This is important both for your safety and that of others.

DO NOT MODIFY OR TAMPER WITH THIS APPLIANCE.

Servicing shall be carried out only by authorised personnel by ELECTROLUX PROFESSIONAL.

Only original spare parts shall be used.

When performing service or replacing parts, the power must be disconnected.

When the power is disconnected, the operator must see that the machine is disconnected (that the plug is removed and remains removed) from any point to which he has access. If this is not possible, due to the construction or installation of the machine, a disconnection with a locking system in the isolated position shall be provided.

In accordance with the wiring rules : mount a multi-pole switch prior to the machine to facilitate installation and service operations.

In order to prevent damage to the electronics (and other parts) that may occur as the result of condensation, the machine should be placed in room temperature for 24 hours before being used for the first time.

In case of a gas heated machine, do not assemble the machine on premises containing a dry cleaning machines or other similar machines.

Please wash only items offering appropriate distribution inside the drum.

Do not wash items such as mattresses or shoes.

Call our technical departments before washing nonstandard items. Noncompliance with these instructions may void the manufacturer's guarantee in case of abuse of the washer-extractor.



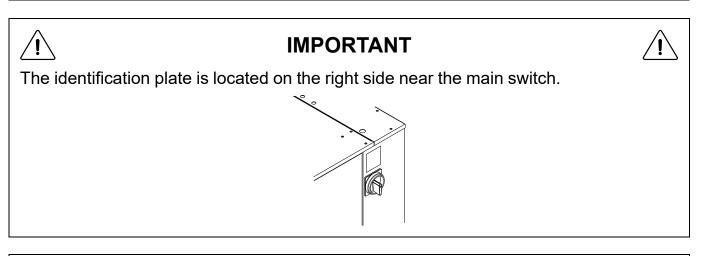
CAUTION



For the following countries : AT, BE, BG, HR, CY, CZ, DK, EE, FI, FR, DE, GR, HU, IS, IE, IT, LV, LT, LU, MT, NL, NO, PL, PO, PT, RO, SK, SI, ES, SE, CH, TR, UK : This appliance shall not be installed where the public has access.

For other countries : This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety and understand the hazards involved. Children should be supervised to ensure that they do not play with the appliance.







Never use the main switch as an emergency stop. Use it only when the machine does not work in progress. Instead of that, use the emergency stop buttons in both sides of the machine.

IMPORTANT

Sound pressure level is found in Technical data.

CAUTION

Your machine is equipped with an automatic weighing system which weighs the laundry during the loading and unloading cycle. For proper operation of this system, you should not open the tank doors for the all duration of the wash program initiated even if errors occurs.



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IMPORTANT

Never try to open the outer drum door before the complete stop of the cage.



CAUTION

Disconnect all the sources of energy before any intervention on the machine.





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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 nonshielded electric cables in the cabinets, strands or cables' troughs. Considering that the volume of the outer drum is superior to 150 litres, the standard kept for the electric part is the IN 60204.



CAUTION

With AIDO(Automatic Inner Door Opening) option, Take care of the disc of the opening system above your head. Risk of cutting with the edge of the disc!! Take care also of the locking system on your side; risk of cutting with the edge of the plate!!



CAUTION

When you put your hands into the drum, take care of the edge of the outer drum doors on yours sides. Risk of cutting with the edge of the metal plate!!



CAUTION

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 or gas inlet valves.



IMPORTANT



Ensure that the machine is not loaded beyond its maximum capacity (70 kg (154 lb) for WB6 70 ; 90 kg (198 lb) for WB6 90 and 110 kg (242 lb) for WB6 110). An excessive load has consequences for the lifetime of the machine's organs, as follows:

- Premature deterioration and failure of the suspension elements (springs, shock absorbers);
- Excessive fatigue of motorization elements (engine, belt);
- Rapid reduction of lifetime of drum bearings (rolling bearings);
- Opening and destruction of drum doors and tank doors during oil dehydration. This is particularly important for your safety and that of others.

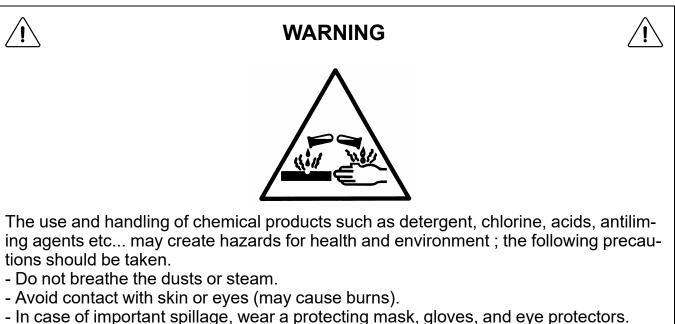
The consequence is an immediate cancellation of the warranty.



THINK OF THE ENVIRONMENT!

The use and handling of chemical products such as detergent, chlorine, acids, descaling agents, etc may create hazards for health and environment; the following precautions should be taken:

- Do not breathe the dusts or steam;
- Avoid contact with skin or eyes (may cause burns);
- In case of important spillage, wear a protecting mask, gloves, and eye protectors;
- Handle with care;
- Consult the use and first aid advice on the packing;
- Do not dispose pure products in the environment.



- Handle with care.
- Consult the use and first aid advice on the packings.
- Do not dispose pure products in the environment.

1.1 Symbols

	Caution.
<u>A</u>	Caution, presence of dangerous current.
	Read the instructions before using the machine.

1.2 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
				00			\bigcirc
Transport		х	0				
Handling		х	0				
Unpacking		х	0				
Installation		х	0				
Normal use	X	X	X	X			
Adjustments	0	x					
Routine cleaning	0	x	x	0			
Extraordinary cleaning	0	x	x	0			
Maintenance	0	х	0				
Dismantling	0	х	0				
Scrapping	0	x	0				

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 Preliminary instructions

WARNING

Risk of jamming when opening the lower door for unloading

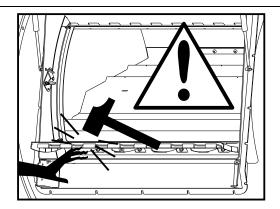


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WARNING



Risk of jamming with trolley and lower door when opening (if trolley height = 900mm)

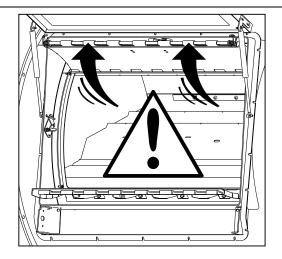


WARNING

Risk of the upper door being raised quickly on loading

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WARNING

After the installation, Send back the commissionning form ,signed document, to ElectroluxProfessional to validate the warrantly of the product.



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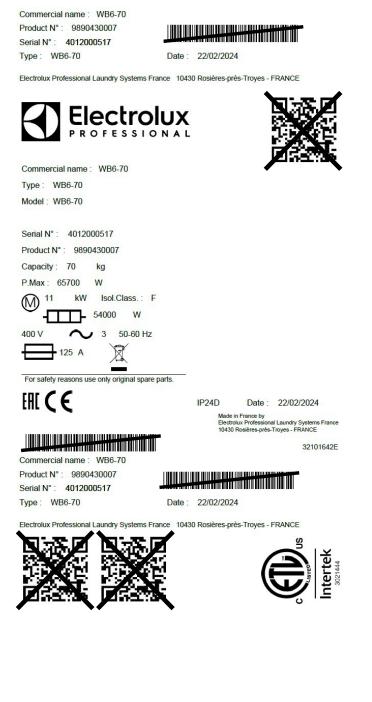
1.4 Data plate explanation

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. WB6–70).
- 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) (i.e WSBA6180H17 for commercial name WB6–20).
- 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
- Capacity : for washer product, the maximum loaded weight of linen for your product (in kg)(i..e. 70 kg for WB6–70)
- 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
 - 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

Electric heating :

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



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 : WB6-70			
Product N°: 9890430009			
Serial N°: 3472000817			
Type: WB6-70	Date :	08/02/2024	
Electrolux Professional Laundry Systems Fra	ance 1043	0 Rosières-près-Troyes - FRANCE	
Electro	lux		
	NAL		
Commercial name : WB6-70		La has	846
Type: WB6-70			
Model: WB6-70			
Serial N°: 3472000817		ω	
Product N°: 9890430009		\sim	
Capacity: 70 kg			
P.Max: 11700 W		P. maxi. 600 kPa	
M 11 kW Isol.Class.: F			
[™] -□□- [™]			
400 V 💊 3 50-60 Hz			
For safety reasons use only original spare	parts.		
EHL CE		IP24D Date : 08/02/2	024
		Made in France by Electrolux Professional Laundry Sy	stems France
	i i	10430 Rosières-près-Troyes - FRA	
Commercial name : WB6-70		3	2101642E
Product N°: 9890430009			
Serial N°: 3472000817			
Type: WB6-70	Date :	08/02/2024	
Electrolux Professional Laundry Systems Fra	ance 10430	0 Rosières-près-Troyes - FRANCE	
NORSE NORSE		S	
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	7		ert 02144
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1.5 Warranty terms and exclusions

If the purchase of this product includes warranty coverage, warranty is provided in line with local regulations and subject to the product being installed and used for the purposes as designed, and as described within the appropriate equipment documentation.

Warranty will be applicable where the customer has used only genuine spare parts and has performed maintenance in accordance with user and maintenance documentation made available in paper or electronic format.

strongly recommends using approved cleaning, rinse and descaling agents to obtain optimal results and maintain product efficiency over time.

The warranty does not cover:

- service trips cost to deliver and pick up the product;
- installation;
- training on how to use/operate;
- replacement (and/or supply) of wear and tear parts unless resulting from defects in materials or workmanship reported within one (1) week from the failure;
- · correction of external wiring;
- correction of unauthorized repairs as well as any damages, failures and inefficiencies caused by and/or resulting from;
 - insufficient and/or abnormal capacity of the electrical systems (current/voltage/frequency, including spikes and/or outages);
 - inadequate or interrupted water supply, steam, air, gas (including impurities and/or other that does not comply with the technical requirements for each appliance);
 - plumbing parts, components or consumable cleaning products that are not approved by the manufacturer;
 - customer's negligence, misuse, abuse and/or non-compliance with the use and care instructions detailed within the appropriate equipment documentation;
 - improper or poor: installation, repair, maintenance (including tampering, modifications and repairs carried out by third parties not authorized third parties) and modification of safety systems;
 - Use of non-original components (e.g.: consumables, wear and tear, or spare parts);
 - environment conditions provoking thermal (e.g. overheating/freezing) or chemical (e.g. corrosion/oxidation) stress;
 - foreign objects placed in- or connected to- the product;
 - accidents or force majeure;
 - transportation and handling, including scratches, dents, chips, and/or other damage to the finish of the product, unless such damage results from defects in materials or workmanship and is reported within one (1) week of delivery unless otherwise agreed;
- product with original serial numbers that have been removed, altered or cannot be readily determined;
- replacement of light bulbs, filters or any consumable parts;
- any accessories and software not approved or specified by.

Warranty does not include scheduled maintenance activities (including the parts required for it) or the supply of cleaning agents unless specifically covered within any local agreement, subject to local terms and conditions.

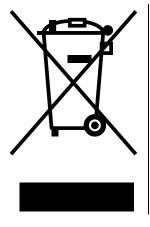
Check on website the list of authorized customer care.

2 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.



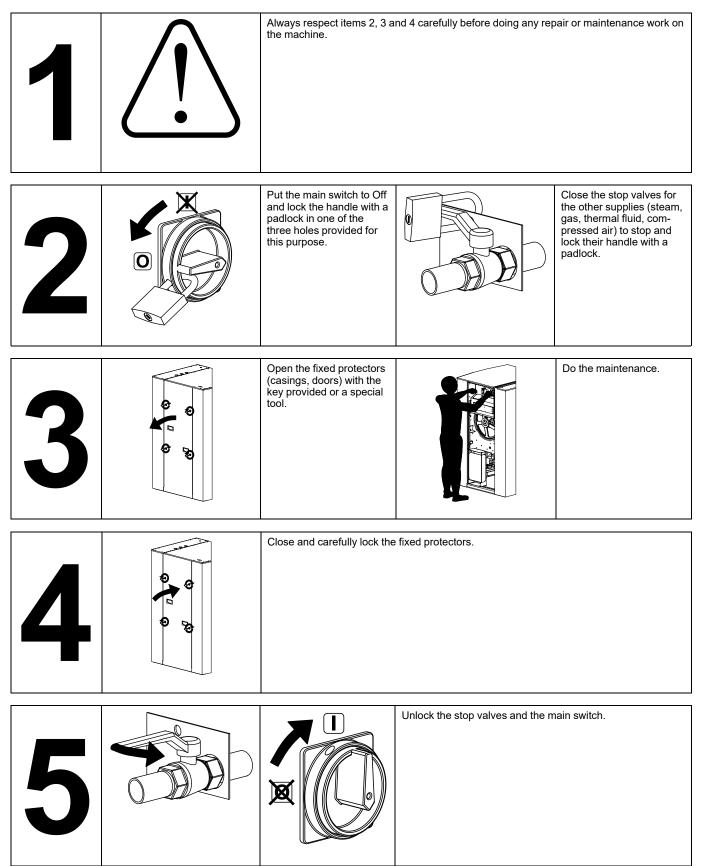
Scrapping of machine

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.

3 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.



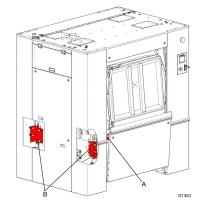
4 Handling



Important

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

Before any handling, check that the four transport locks fitted are still in place and well-tightened. To do so, remove the side casings and check presence of four locks (B) and the down casings for the four locks (A).





Caution

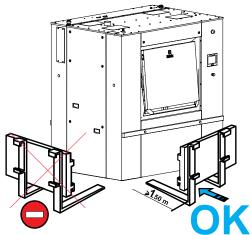
To handle the machine, you must imperatively reassemble the transport bridles and dis engage the load cells (proceed in reverse order or "remove of the transport locks fitted")

4.1 Lifting with a fork-lift truck



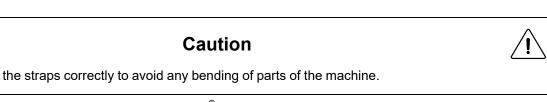
You should never handle the machine in its longitudinal side (any other than shown on the drawing below) with a fork-lift truck. Important risk of parts deterioration for those fixed under the machine.

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")

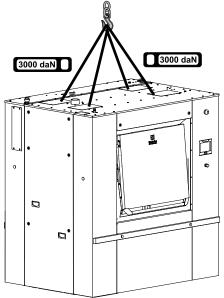


4.2 Lifting with handlings straps

Lifting in that case can only be done with handling straps (minimum capacity 3000 daN / 6600 lb) which bear weight of the machine.



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



Caution

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



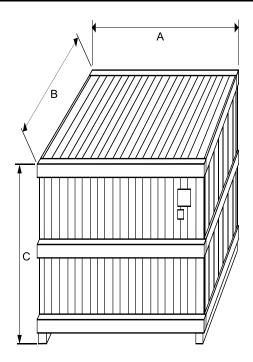
5 Packing-Weight

5.1 Packing

Packing dimensions in mm/in	Size A	Size B	Size C
Washer extractor type WB6 70	1710 / 68"	1710 / 68"	2330 / 92"
Washer extractor type WB6 90	1710 / 68"	1970 / 78"	2330 / 92"
Washer extractor type WB6 110	1710 / 68"	2180 / 86"	2330 / 92"

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5.2 Weight

Weight in kg/lb (machine + crate)*	Electrical heating	Steam/ Thermal fluid heating
Washer extractor type WB6 70	2900 / 6395	2900 / 6395
Washer extractor type WB6 90	3100 / 6836	3100 / 6836
Washer extractor type WB6 110	3280 / 7233	3280 / 7233

* Precise weight depends on accessories fitted.

6 Technical characteristics

6.1 Technical data

	Units	WB6-70	WB6-90	WB6–110
Drum diameter	mm / "	1050 / 41.33"	1050 / 41.33"	1050 / 41.33"
Drum length	mm / "	794 / 31.26"	1026 / 40.39"	1256 / 49.45"
Drum volume	litre	690	890	1080
Opening inner drum doors (LxH)	mm	670x490	900x490	900x490
Opening outer drum door (LxH)	mm	728"698	958"698	958x698
G-factor, max.		300	300	300
Specific load	kg / lb	70 / 154	90 / 198	110 / 242
Floor area	m²	2.04	2.35	2.67
Max. unbalance	kg	15	15	15
Net weight	daN	2530*	2725*	2850*
Weight loaded (high level)	daN	3010	3345	3608
Water volume, washing (low level)	I	185	220	300
Water volume, washing (high level)	I	370	440	600
Heat loss		3 %	of installed heating p	ower

* Precise weight depends on accessories fitted.

6.2 Connections WB6 Pullman Clean room:

Water	Units	WB6-70	WB6–90	WB6–110
Water valves connection	mm-BSP	DN32-1"1/4"	DN32-1"1/4"	DN32-1"1/4"
Capacity at 250 kPa	l/min	200	200	200
Functioning limits for water valve	kPa	50–300	50–300	50–300
Water consumption for a wash program ¹	I	720	931	1149
Drain	Units	WB6-70	WB6–90	WB6–110
Drain connection, outer ø (H1 on drawings)	mm	110	110	110
Double drain connection (option) outer ⌀ (H2 on drawings)	mm	110	110	110
Maximum drain flow rate	l/min	380	380	380
Waste water collector	DN-mm	200	200	200
Air vent	Units	WB6–70	WB6–90	WB6–110
Air vent connection, outer ø	mm	80	80	80
Liquid detergents	Units	WB6–70	WB6–90	WB6–110
Liquid detergents connection, outer ø	mm	25	25	25
Indirect steam	Units	WB6–70	WB6–90	WB6–110
ndirect steam heating	mm-BSP	DN20-3/4"	DN20-3/4"	DN20–3/4"
indirect steam heating return	mm-BSP	DN20-3/4"	DN20-3/4"	DN20–3/4"
Maximum supply pressure	kPa	400	400	400
Inner volume indirect steam	I	8	9	10
Electricity	Units	WB6–70	WB6–90	WB6–110
Supply voltage	V	380/415	380/415	380/415
Frequency	Hz	50/60	50/60	50/60
Electric cable (section)	mm²			
Rated electric power, electric heating	kW	65.7	87.7	91
Rated electric power indirect steam heating	kW	11.7	15.7	19

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1. ISO 93 98–4 standard type C.

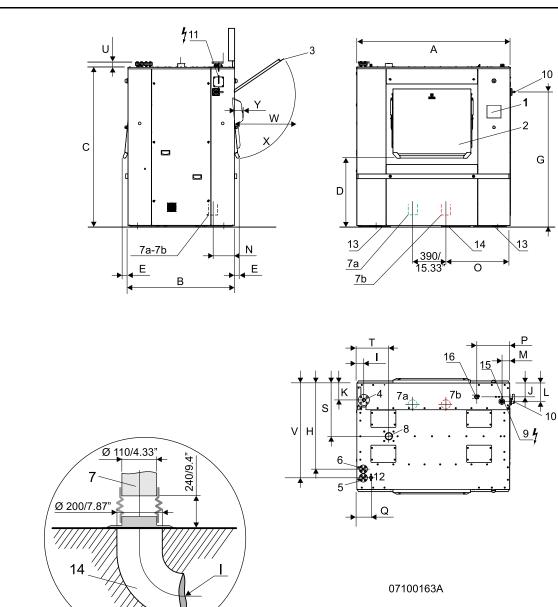
Installation manual

Heating	Units	WB6-70	WB6–90	WB6–110	
Installed heating power, electric heating	kW	54	72	72	
Electric consumption for a standardized cycle, electric heating	kWh	11.62	14.67	17.71	
Electric consumption for a standardized cycle, indirect steam heating	kWh	1.86	2.3	2.4	
Floor load	Units	WB6–70	WB6–90	WB6–110	
Max transmitted floor load	daN	3600	4100	4450	
Max. pressure transmitted to floor	kPa	144	164	178	

Compressed air	Units	WB6–70	WB6–90	WB6–110
Compressed air inlet	mm	6/8	6/8	6/8
Min./max. compress air pressure	bar	5.5/7	5.5/7	5.5/7
Consumption	l/h	50	50	50

6.3 Dimensions — WB6–70 , WB6–90, WB6–110 clean room

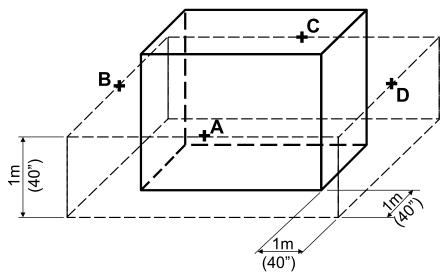
WB6-	70																						
Α	в	С	D	Е	F	G	н	Ι	J	к	L	М	N	0	Ρ	Q	R	s	т	U	v	w	х
1496/ 58.7- 9"	1363/ 53.5- 6"	004	990/	60/ 2.31"		1715/ 67.4"	1102/ 43.4"	90/ 3.5"	177/ 7"	222/ 8.7"	237/ 9.3"	100/ 3.9"	305/ 11.9- 9"	575/ 22.5- 9"	427/ 16.8"	182/ 7.15"		681/ 26.7- 8"	409/ 16.0- 9"	110/ 4.33"	1213/ 47.6- 6"	790/ 31.0- 5"	120°
WB6-	WB6-90																						
Α	в	С	D	Е	F	G	н	Ι	J	к	L	М	N	0	Ρ	Q	R	S	т	U	v	w	x
1726/ 67.8- 3"	1363/ 53.5- 6"	2040/ 80.1- 7"	990/ 38.9"	60/ 2.31"		1715/ 67.4"		90/ 3.5"	177/ 7"	222/ 8.7"	237/ 9.3"	100/ 3.9"	305/ 11.9- 9"	690/ 27.1- 1"	427/ 16.8"	182/ 7.15"		681/ 26.7- 8"	409/ 16.0- 9"	110/ 4.33"	1213/ 47.6- 6"	790/ 31.0- 5"	120°
WB6-	.110																						
A	в	с	D	Е	F	G	н	Т	J	к	L	м	N	0	Р	Q	R	s	т	U	v	w	x
1956/ 76.87	1363/ 53.5- 6"	2040/ 80.1- 7"	990/ 38.9"	60/ 2.31"		1715/ 67.4"	1102/ 43.4"	90/ 3.5"	177/ 7"	222/ 8.7"	237/ 9.3"	100/ 3.9"	305/ 11.9- 9"	805/ 31.6- 3"	427/ 16.8"	182/ 7.15"		681/ 26.7- 8"	409/ 16.0- 9"	110/ 4.33"	1213/ 47.6- 6"	790/ 31.0- 5"	120°



Number	Description	Number	Description
1	Control panel	10	Main switch to connect main cable
2	Loading door	11	Electric cable
3	Unloading door	12	Liquid detergents connection
4	Bath inlet (water connection + detergents)	13	Rubber plate
5	Indirect steam inlet	14	Waste water collector
6	Indirect steam return	15	Compressed air inlet
7a et 7b	1st drain connection & 2nd drain connection	16	Connectivity
8	Air vent connection	Y	Option AIDO = 170 mm on right view
9	Electrical connection		

7 Sound levels

The sound power level of the machine is determined by using ISO 3747:2012.



According to test code EN50571 : 2013 anex CC, the sound power level at extraction and during washing are according to the table:

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

Weighted sound pressure level in dB (A)	Washer 700 (Without insulation)		Washer 900 (Without insulation)		Washer 1100 (Without insulation)	
	Washing	High spin extraction	Washing	High spin extraction	Washing	High spin extraction
А	63.5	82.2	63.5	82	66	81.5
В	64	81.3	64.2	81	66	81.5
С	63	83.9	63.8	83	67	83
D	64	82.7	64.2	83	67	83

8 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.

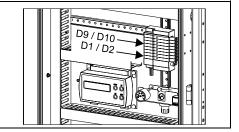
The average lighting value on the working place recommended by the clothing industry for inspecting linen is **500 lux**. Whenever possible, the working place should be illuminated by daylight.

9 Supplies

Take the box placed inside of the inner drum.

you must connect the compressed air to unlock the loading door. Then push on the orange button of the D9/D10 distribution unit in the electric cabinet. So you can access in the drum.

Important



- 1. Accessories delivered with each machine
 - 1 instruction handbook + spare parts catalogue + 2 electrical schematics
 - 3 keys for casings
 - 2 or 3 stainless steel flexible pipes 3/4" + 4 or 6 fibre seals
 - 2 or 3 waters filters 1"
 - 2 or 3 male nipples 1"
 - 1 connection bellow ø 110 + 1 collar

 - 1 connection nozzle
 - 4 fixing dowels
 - 4 bolsters + 4 wedges (see explanation below for installation)
- 2. Accessories delivered with each steam heating machine
 - 1 steam electrovalve
 - 1 steam flexible
 - 1 steam filter
 - 1 pipe union
- 3. Accessories delivered with each gas heating machine
 - 4 meters blue flexible pipes
 - 2 pipes ø 125 mm (5"), length 500 mm (20") to be connect at the chimney

 - 1 draught accelerator to extract the exhaust of burn gas, to be connected at the chimney (in 3 parts)
 - 4 collars ø 40–60
- 4. Accessories delivered with each barrier washers
 - 1 rubber seal + aluminium extruded sections + 40 screws
 - 4 flange safety locks (machines with weighing equipment)
 - 1 opening inner drum lever (with manual openning door)

10 Mechanical installation

Depending on its destination, the washer extractor 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).

10.1 Unpacking

Take off the plastic film or remove the four wood socles with a spanner.. Please refer to the handling chapter in this instruction handbook for a description of handling operations.



Important



Check that no damage has been caused during transport.

10.2 Installation

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.

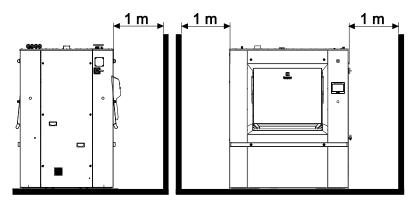
The machine must be installed on a perfectly even surface, strong and horizontal, capable resisting to the efforts shown in the technical characteristics.

Adjustment of the machine by addition of level plate should be avoided.

Control the horizontal level using a water level placed on the machine's sole.

Place the washer extractor so that it is easy for the user and the service technician to do their work.

Leave at least 1 m (40") (<u>according to the recommendation in standard EN 60204</u>) between the machine, a wall or any other machine at the sides.



10.3 Installing the shock absorber plates

Preparation of the ground and the machine.

· Carefully degrease the ground and the machine's base plates.

Positioning the shock absorber plates.

• Place each shock absorber plate (P) at its respective location (see diagram) raising each of the machine's support points in series and taking care to let the plate inside of the base plates.

Commissioning the machine

 Time: before commissioning the machine, each support point must be embedded by being crushed in by the plate's upper layer and the lower layer must have been pushed into the porosity in the ground. The crushing time is 2 hours at an ambient temperature of 18 °C.



Warning



Electrical safety device. As rubber is a very good electric insulating material, the earthing of the machine is compulsory. Moving machines sealed with the shock absorber plates

· Moving machines sealed with the shock absorber plates

10.4 Instructions for securing the machine on the ground



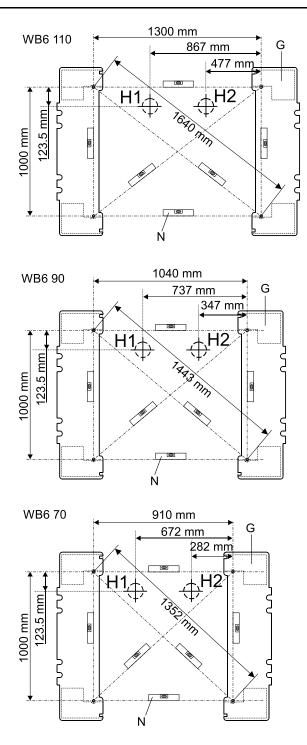
Caution

Only for machines without weighing equipment.

Place the machine on a perfectly even surface and horizontal. Control this using a water level (see drawing). Each point must be level.

Note!

On the drawings , H1 and H2 are the position of the drain outlet for the barrier machine depending on the different model. (H1 one drain and H2 the second drain (option))



Mark out the drill holes for the securing dowels and drill them so as to insert the 4 dowels , they will secure the machine to the floor.

Put the machine in position and secure it with the dowels without tighten.

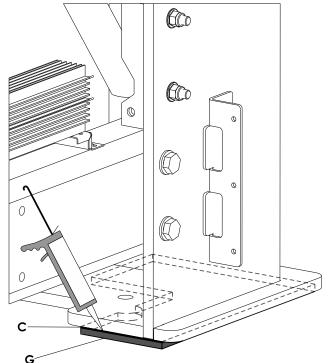
Bolsters: G

Water level: N

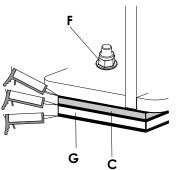
10.5 Setting the shock apsorber plates

Place each plate (G) at its respective location (see drawing) and heave successively each bearing of the machine. Verify the levels and place if necessary the wedges (C) between the absorber plate and the soles to stabilize the machine.

When the "trial " stalling is realized, apply obligatory the glue (type SILICOMET) on every plate face and under the soles of the machine (see drawing)



The indicated faces on the drawing must be aligned. Aplly equally glue to each face of the used wedges. Put the machine in position and secure it with the bolts (F) <u>without tighten</u>.



Electrical safety device : As rubber is a very good electric insulating material, the earthing of the machine is mandatory.

To displace the machine sealed with absorber plates: You must introduce a flat chisel between the ground and the absorbers plates by heaving the machine; you have to remove them and avoid to pull off the ground.

11 Remove of the transport locks fitted

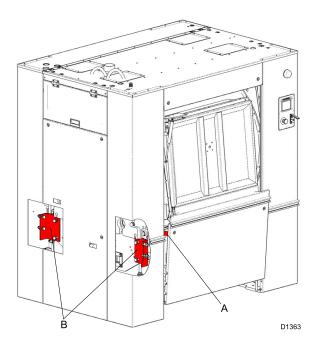




Before putting the machine into service, it is compulsory to remove the 4 transport locks fitted.

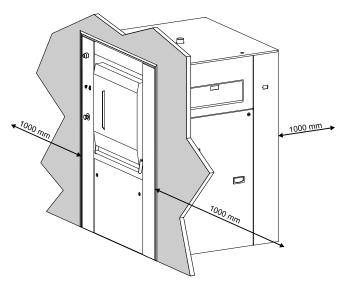
To do so, remove the side casings, then the fixing screws of the transport locks (B), as well as the transport lock screws of the down casings (A).

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 transport locks.

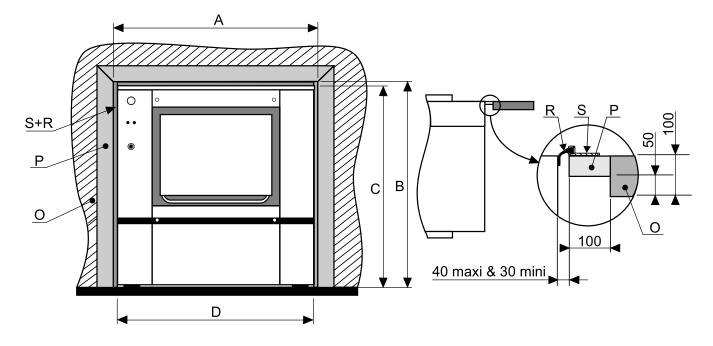
12 Barrier partition



Leave at least 1 m (40") (according to the recommendation in standard EN 60204) between the machine, a wall or any other machine at the sides.

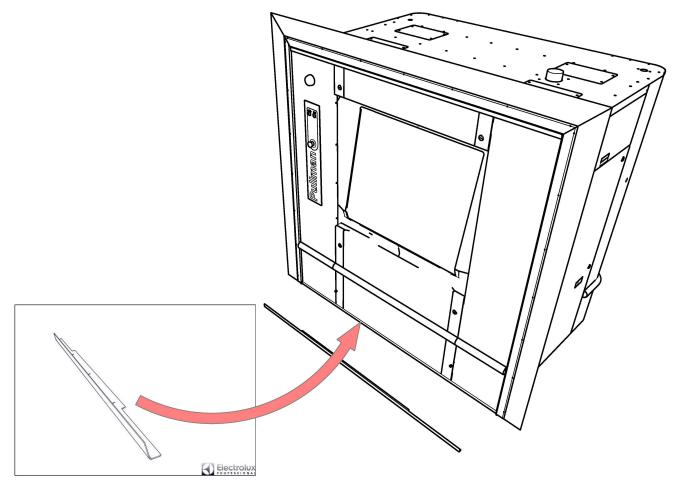
mm/in	А	В	С	D
WB6-70	1570	2080	2040	1490
WB6-90	1800	2080	2040	1720
WB6–110	2030	2080	2040	1950

* Minimum 70 mm (2.76"),, maximum 100 mm (4"),.



- The barrier partition (O) shall be built before the installation of the machine.
- Centre and align the washer-extractor with the frame (P) 60x100mm (2x4") maximum (provided by customer)..
- Place the rubber seal (R) inside the aluminium extruded section (S).
- Screw the aluminium extruded section (S) on the frame or on the optional plates (P).

Additional angle bar to be placed at the bottom of the machine.



13 Drain connection

The machine's exhaust sleeve outside diameter is of 110 mm (4.33"). It is located underneath the machine.

The waste water collector diameter 200 mm (7.87") (manufactured by customer) should have a 3 cm/m (3 %) slope and resist to a temperature of 90 °C (194 °F). It should be connected to the waste water general network in accordance with local codes and regulations.

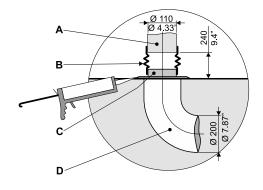
Adapt and connect the machine's exhaust sleeve to the waste waters' collector (rubber bend and connection nozzle are supplied in the machine with collars).

Drawing of drain connection to waste waters' collector

- 1. Connect the hose (B) to the connect nozzle (C).
- 2. Seal and fix the nozzle (C) using 2 screws.
- 3. Them connect the hose (B) to the drain's evacuation sleeve (A).

A Drain's evacuation sleeve

- **B** Connection hose
- **C** Connection nozzle
- D Waste water collector



14 Bath inlet (water + detergents)

The washer extractor is fitted with a DN 20 flange, a mating flange DN 20 and a seal for the bath inlet. The supply pipe to the machine should be fitted with manual shut-off valve to facilitate installation and service. Fit filter to the manual shut-off valve with Teflon. Refer to local utilities regulations when fitting nonreturn valves. A screen at the entrance to the machine filter should be necessarily mounted, it must have a mesh size of 0.3 mm Any malfunction of water solenoid or water pneumatic valves due to a absence or a poor maintenance of the filters will not be taken under warranty.

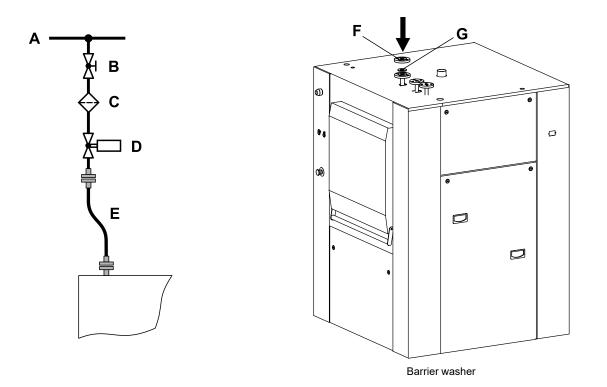
The following values apply to water pressure:

Water supply pressure, 50 kPa (7.25 psi) mini. Water supply pressure, 300 kPa (43.5 psi) maxi.

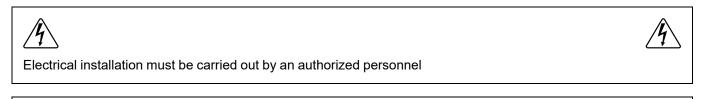
The hoses should be flushed through before being connected to the machine.

The hereunder example sketch shows the connection of the machine to the water inlet.

- A Water
- B Manual stop valve DN 20 (provided by customer)
- C Water filter DN 20
- D Valve (provided by customer)
- E Flexible pipe DN 20
- F Mating flange DN 20 (provided)
- G Seal DN 20 (provided)



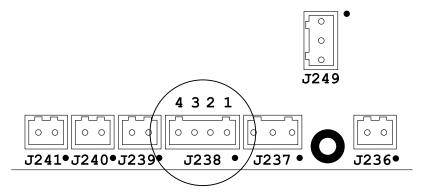
14.1 Connection of external water supply



<u>/4</u>

All external equipment which is connected to the machine must be CE/EMC approved and connected using an approved shielded cable.

Connect the electrical control of the water inlet valve on the J238 terminal of the A2 I/O card in the electric cabinet of the machine.



Outputs 24 VDC / 1 amp maxi

Output J238–1 = 0 V Output J238–2 = Water inlet no 3 Output J238–3 = Water inlet no 2 Output J238–4 = Water inlet no 1

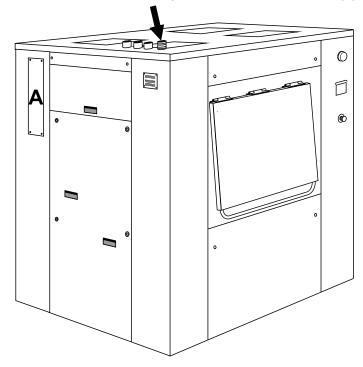
15 Liquid detergents connection

The machine is equiped with a connection for the use of external liquid detergents.

If you do not use the detergent box, please use the cap delivered with the machine in oder to avoid vapour from steaming out through the opening of the bow downpipe.

Installing :

Open the door of the detrgent box . Place the silicone cap in the hole of the bow downpipe.





Caution



In a view to avoid an overflowing risk, do not forget the remove the silicone cap if you use the detergent box.



Caution

Liquid detergents are particularly aggressive.

We advise you to use only products with pH lower than 9 in order to avoid the machine's rubbers from being attacked.

Dilute imperatively all of your detergents before letting them flow into the machine.





ADVISE IF USING LIQUID DETERGENTS

After use, there is always chemical remaining in the liquid detergents' dosing pipes.

When the machine is not running, this detergent may slowly drip and so, quickly corrode the parts in contact with. In order to avoid (ex. corrosion of the drum or by bleach), we advise you to forecast a device to drain every night the distribution pipes of the liquid detergents.



Caution

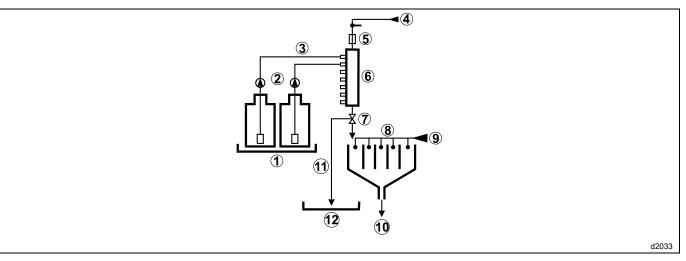


The running of detergents must be independent from the running of the machine. The control information of detergents must imperatively be relayed. It is imperative to use armoured wires for every connection in the electrical box.

15.1 Connection scheme of liquid detergents

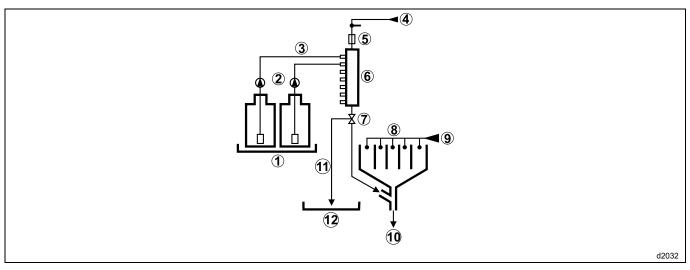
We advise you to use one of the two systems shown hereby to connect your liquid detergents. Single inlet dose controller with a compulsory rinsing device.

1	Retention tank	7	3 way valve
2	Pump	8	Scoops + Rinsing
3	Liquid detergents	9	Water
4	Water	10	Washer extractor
5	Soap box rinsing electrovalve	11	Toward retention tank
6	Dose controller	12	Retention tank



Multi-inlet dose controller with a compulsory rinsing device.

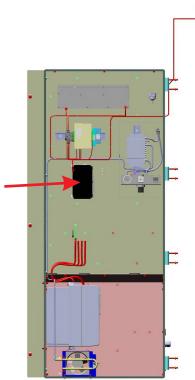
1	Retention tank	7	3 way valve
2	Pump	8	Scoops + Rinsing
3	Liquid detergents	9	Water
4	Water	10	Washer extractor
5	Soap box rinsing electrovalve	11	Toward retention tank
6	Dose controller	12	Retention tank



15.2 Electrical liquid detergents' connection

Electrical installation must be carried out by an authorized personnel.

The two IO22 cards allows to connect from 1 to 16 electrovalves of liquid detergents. The cards are situated on the middle of the electric box.



Carry the connection cables by the partition crossing and the cable through of the machine.



Caution

Be carefull, even machine power off, you can still have power on this board coming from detergent supplier. Secure it also before intervention.

Connection on the detergent IO22 card

Please refer to the electric schematics to see how is connected the different detergent on these two IO card !

Supply voltage : 250 V~ maximum Maximum intensity : 6 A.





16 Indirect steam heating

Steam and condensate connections

The washer extractor is fitted with 2 DN 20 flanges, 2 mating flanges DN 20 and 2 seals for the indirect steam heating.

Steam connection

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 washer-extractor.

Hereunder values apply to the steam pressure.

Recommended pressure: 300 at 600 kPa (3 at 6 kg/cm²) (43.5 at 87 psi)

Limiting of values:

- mini. 100 kPa (1 kg/cm²) (14.5 psi)
- maxi. 600 kPa (6 kg/cm²) (87 psi)

Connection size : flange DN 20.

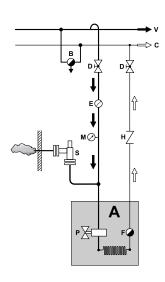
Condensate connection

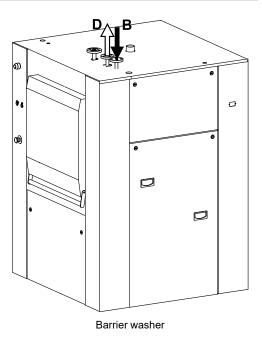
The customer must install a steam trap with float closed with an incondensables drainage device, a by-pass, a nonreturn valve and a manual closing valve lockable in off position (do not use a 1/4 turn valve).

Connection size: flange DN 20.

Connect the steam installation on the top of the machine (see example sketch).

Α	Washer-extractor	H Non-return valve (provided by customer)			
в	Line trap (provided by customer)	M Pressure gauge (provided by customer)			
С	Return of condensates	N	N Insulation for the pipework (provided by customer)		
D	Manual stop wheel valve (provided by customer)	P Steam electrovalve (provided)			
Е	Steam filter (provided by customer)	S	S Safety valve (provided by customer)		
F	Steam trap (provided)	v	Steam inlet		

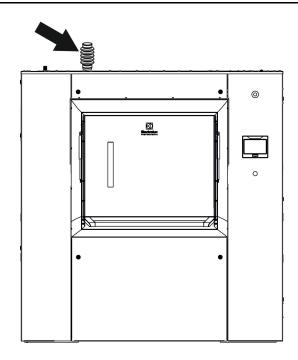




17 Air vent connection

The air vent of the outer drum opens on the top of the machine. Connect the bent hose to this opening. Connect the air vent, to the outside of the laundry in accordance with the legislation.

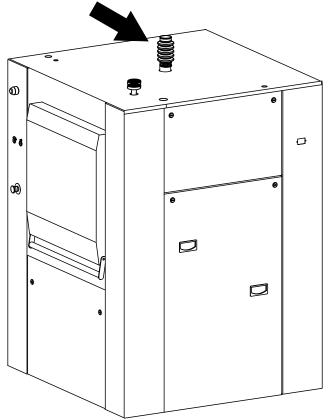
The air vent should resist to 100 °C (212 °F) temperature and allow the condenses to return to the machine.



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17.1 Air vent connection for clean room installation

The air vent of the outer drum opens on the top of the machines. You may connect according to one of the 2 alternatives we recommend below.

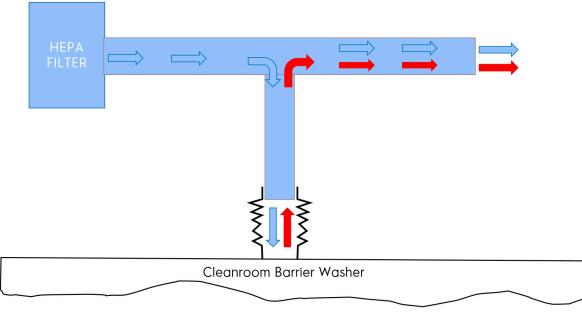


It is important that the machine is put at atmospheric pressure as the levelling of water depends on it. Alternative 1:

Pressurized HEPA (High Efficiency Particulate Air) filtered air

When the machine drains water, clean air must go in

When the machine fills with water, dirty air goes out and must be pushed away by HEPA filtered air Exhaust clean and dirty air into a grey room

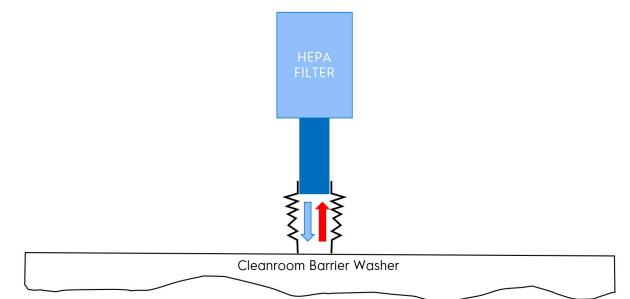


Alternative 2 :

When the machine drains water, clean air must go in

When the machine fills with water, dirty air goes out and must trapped in the HEPA filter.

The type of HEPA to be used must be so that it works both ways and traps the particles inside. It must not release the particles when the machine drains water.



18 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.

19 Feeder cable sections

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.

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	Wall fixing	Cable tray
	B2	BC	E
3 x 1.5 mm²	12.2 A	15.2 A	16.1 A
3 x 2.5 mm²	16.5 A	21 A	22 A
3 x 4mm ²	23 A	28 A	30 A
3 x 6 mm²	29 A	36 A	37 A
3 x 10 mm²	40 A	50 A	52 A
3 x 16 mm²	53 A	66 A	70 A
3 x 25 mm²	67 A	84 A	88 A
3 x 35 mm²	83 A	104 A	114
3 x 50 mm²	-	123 A	123 A
3 x 70 mm²	-	155 A	155 A

Table 2 (correction factors for different ambient temperatures)

Ambient temperature	Correction factor
30 °C	1.15

35 °C	1.08
40 °C	1.00
45 °C	0.91
50 °C	0.82
55 °C	0.71
60 °C	0.58

Table 3 (correction factors for different cable insulating materials)

Insulating material	Max. Working tempera- ture range	Correction factor	
PVC	70°C (158 °F)	1.00	
Natural or Synthetic Rubber	760°C (140 °F	0.92	
Silicone Rubber	120°C (248 °F)	1.60	

Table 4 (B2, C and correction factors for cable grouping)

	B2	E	Е
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

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 the 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. Table 4 gives a correction factor of 0.85.

	60 A	
Total current :		= 84 A
	0.91 x 0.92 x 0.85	

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

20 Electricity power supply

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Prior to use, the washer-extractor should be connected to a multi-pole switch prior to the machine to facilitate installation and service operations.



Caution

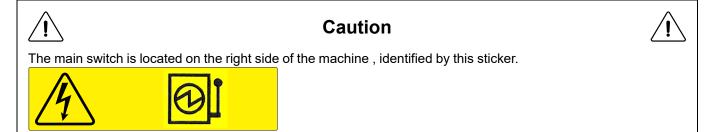
The electrical installation of the machine must be undertaken by qualified personnel.



Caution

 $\underline{\hat{}}$

Ensure that the electrical voltage is correct and that the power of your supply is sufficient, before connecting the machine.

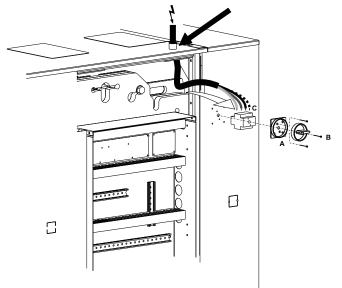


The use of power electronics (converter or filter for example) may lead to unexpected release of breakers with 30 mA differential current device.

Therefore a Type B residual differential protection system with reinforced immunity of 300 mA in accordance with standard NFC 15100 must be used for our washing machines.

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

Pass the power supply cable of the machine through the stuffing box on the top of the machine.

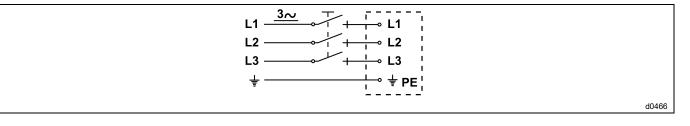




Caution

The main switch must be removed in order to have easy access to the connections terminals. Remove the outer sections (A) and the inner section (C) by unscrewing the screws (B). When the cables are attached, reassemble the switch in reverse order.

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

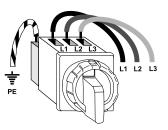


Connect the power supply cable on the machine main switch. Connect the 3 phases on the main switch (see marks L1, L2, L3) and connect the earth wire on the earth terminal (PE) of this main switch. (see chapter "Function checks").

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Caution

In case of a machine with integrated weighing, you must use a flexible power supply cable to connect the machine.



Machine type	Heating	Supply Voltage	Rated Power	Rated Intensity	Connection cable section	Protection
	Electric	400 V / 3 / 50–60 Hz	65.7 kW	100.5 A	4 x 35 mm² / AWG 2	3 x 125 A
70	Electric/Steam	400 V / 3 / 50–60 Hz 480V 3+E ~ 50/60 Hz	65.7 kW 67.7 kW	100.5 A 80 A	4 x 35 mm² / AWG 2	3 x 125 A 3 x 100 A
	Steam	200 V / 3 / 50–60 Hz 208–240 V / 3 / 50–60 Hz 400 V / 3 / 50–60 Hz	11.7 kW	27 A	4 x 10 mm² / AWG 8	3 x 50 A 3 x 50 A 3 x 32 A
	Electric	400 V / 3 / 50–60 Hz	87.7kW	135 A	4 x 35 mm² / AWG 2	3 x 160 A
90	Electric/Steam	400 V / 3 / 50–60 Hz 480V 3+E ~ 50/60 Hz	87.7 kW	135 A 105 A	4 x 50 mm² / AWG 2	3 x 160 A 3 x 125 A
	Steam	200 V / 3 / 50–60 Hz 208–240 V / 3 / 50–60 Hz 400 V / 3 / 50–60 Hz	15.7 kW	33 A	4 x 10 mm² / AWG 8	3 x 63 A 3 x 63 A 3 x 40 A
	Electric	400 V / 3 / 50–60 Hz	91 kW	140 A	4 x 50 mm² / AWG 1	3 x 160 A
110	Electric/Steam	400 V / 3 / 50–60 Hz 480V 3+E ~ 50/60 Hz	91 kW	140 a 110 A	4 x 50 mm² / AWG 1	3 x 160 A 3 x 125 A
	Steam	200 V / 3 / 50–60 Hz 208–240 V / 3 / 50–60 Hz 400 V / 3 / 50–60 Hz	19 kW	42 A	4 x 10 mm² / AWG 8	3 x 80 A 3 x 80 A 3 x 50 A

21 Compressed air connection

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



Caution



The machine must be supplied with dried and perfectly filtered compressed air :

- The compressed air admitted to the distributors and jacks 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 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).

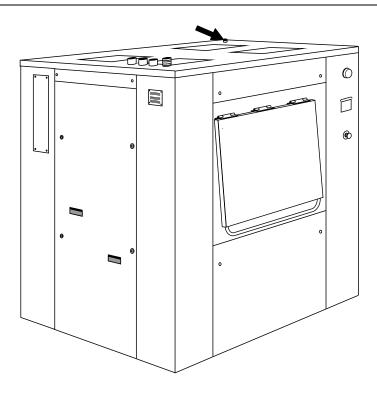
- Connection diameter: rapid action hose coupling DN 6 (0.24") for hose Ø 6/8 mm.
- Advised pressure: 550-700 kPa (5,5-7 bar) (80-102 psi).
- Minimum pressure: 550 kPa (5,5 bar) (80 psi).
- Maximum pressure: 700 kPa (7 bar) (102 psi).

Consumption 50 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.



21.1 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	Solid particles				Water	
	Max.number of	particles per m3		Mass concentration	pressure dew point	Liquid	Total oil con- tent (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 v	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	-	-	-	-	-	0.55	-
9	-	-	-	-	-	5 10	-
х	-	-	-	> 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

′!`



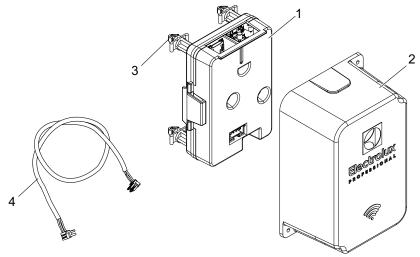
22 Connectivity of the barrier washer

Caution

Every barrier washer L6000 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 barrier washer connected. **INSTALLATION INSTRUCTION OF THE CONNECTIVITY BOARD ON THE BARRIER WASHER L6000 range:** For the installation procedure see instruction **438907725** but it boils down to this:

For type L6000 Barrier washer, the cable supplied with kit 988807401 is used to connect the connectivity board to the machine. The connectivity board is located on the top of the barrier washer as mentioned in the instruction !



1	432689401	Machine Wireless Board x 1		
2	490624901	Machine Wireless Board cover x 1		
3	471796002	Circuit support x 4		
4	413327505	Harness RS232 Fuse IOT x 1		

NETWORK OVERVIEW :

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

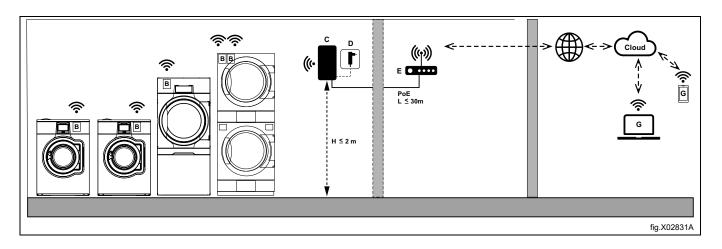
The Machine wireless board is a part of ELS Network, it should be installed on each machine with Compass Pro or Clarus Vibe control system and it be connected to the CPU RS232 port via a quick connection port behind or on top of the machine.

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 barrier washer range:

Installation manual



22.1 Process to follow with a pre equiped washer machine

Barrier washing machine:

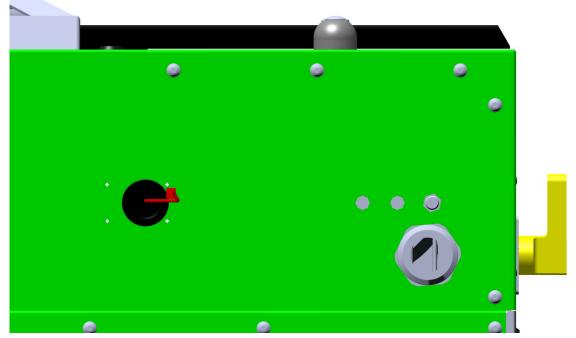
Installing the kit on a pre-equipped barrier washing machine.

The connectivity box must be installed on the upper part of the machine on the water inlet side (on a small cap) as shown in the instruction **438907725**

To do this, follow the following procedure:

1/ Remove the 4 yellow self-adhesive pads for fixing the box.

2/ The connection cable (red) is located under a grommet, remove it and pull the RS232 connection cable held by a label, Be careful not to drop it in the machine! (example below for a Pullman machine, do the same for Evolution or Hyvolution L6000)



3/ Connect the cable to the machine wireless board,

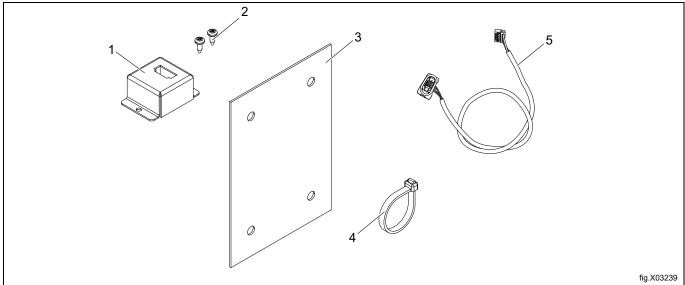
4/ and clip the board into the 4 fixing holes with the 4 circuit support.

5/ Place the cover.

The machine is now connectable.

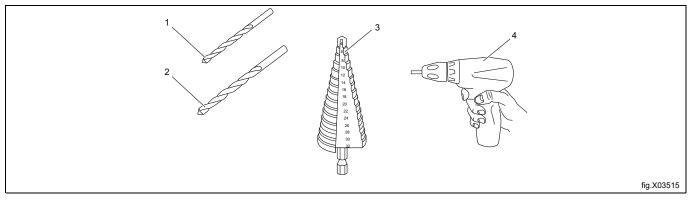
22.2 Connectivity of the barrier washer with after sales kit

22.2.1 Contents of the kit



1	490625001	Plate adapter x 1	
2	471836901	Screw M4x11 x 2	
3	490625501	Drilling fixture (paper) x 1	
4	762910205	able tie x 4	
5	413327497	Harness RS232 Machine to IOT x 1	

22.2.2 Required tools



1	Drill bit ⌀ 3–3.5 mm
2	Drill bit ø 5 mm
3	Step drill bit or drill bit ø 18 mm
4	Drill driver or electric screw driver

22.2.3 Procedure to follow to connect the barrier washer with after sales kit

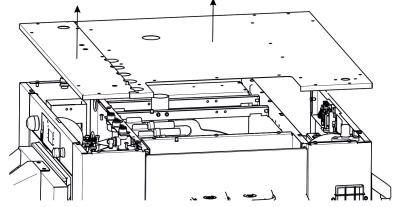


Either the machine comes with the connectivity kit or you can order it to make your barrier washer connected. **Process to install connectivity kit:**

The pictures of this procedure show a **WB6 Evolution** with Compass Pro, it's the same for the **WB6 Hyvolution** with Compass Pro and also **Hyvolution G5000**

Caution

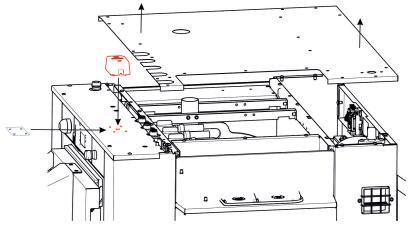
STEP 1 : Remove the small and large upper casings from the machine by unscrewing all the screws. (Fig.1)

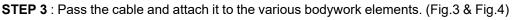


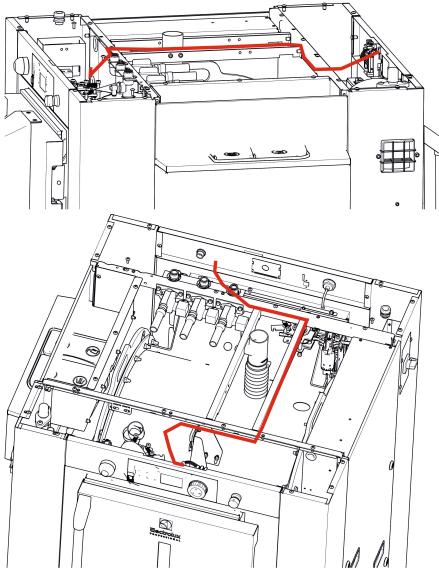
STEP 2 : Using the drilling template, drill the small cap with 4 holes provided for installing the connectivity card (Fig.2)

4 holes with the Drilling fixture (paper) with 5 mm drill bit.

and then drill another hole in the center of the previous 4 with an 18 mm drill bit, to allow the cable to pass through.







STEP 4 : Connect the cable to the RS232 Port of Compass Pro (loading side)

STEP 5 : Put back the upper casings,

 $\textbf{STEP 6}: \textbf{Connect the connectivity board to the wire} \ . \ \textbf{Please follow the instruction 438907725}$

STEP 7 : Place the cover of the connectivity board.

Then, your washing machine is now connectable.

23 Function checks and settings at the first use.

Caution

Before putting the machine into service, carry out the working tests. The operating inspection must be done by an approved technician.



Caution



Check the settings into the Clarus Vibe settings section before putting the machine into service.

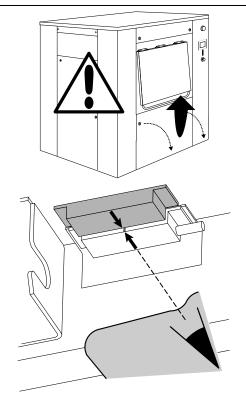
Magnetic detector for tank door safety



Caution

Before starting the appliance, please remove the bottom guard and check that the magnetic detector is correctly aligned.

For barrier machines, repeat this step on the second door.

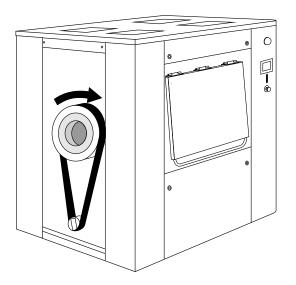


Manual operation

The procedure for operating the various machine functions manually is described in the chapter "Machine operation" under the heading "Manual operation".

- Switch on the machine's main switch and check the voltage on the three phases (3 x 400 volts).
- Check the direction of rotation of the <u>cage during spinning</u>. The inner drum should rotate as shown by the arrow on the drawing below. Check this point especially if you have changed the machine's motor or frequency converter.

Washer extractor barrier type :



- Check the direction of rotation of motion motor fan . (see arrow stuck on the fan) Switch off the current and shift two phases on the main switch of the machine if the fan rotates in the wrong direction.
- · Check that the inner drum is empty.
- Open the manual valves controlling the water and steam supplies (for steam heating machines).
- Operate the machine manually to fill with cold water, then hot water. Check that these water supplies are connected as they should be.
- Start the machine on wash action, and check that the motor is revolving alternately in the both ways, as normal for wash action.
- Start heating by programming a final temperature. Check that the steam valve opens or the heating element relay reacts, as appropriate.
- Check that the detergents container is working as they should.
- Check the water and steam connections and the drain valve for signs of any leakages.
- Empty the water from the machine and open its door.

Automatic operation

- Check that the external switch or switches are switched on and that the manual valves for water and steam (if the machine has steam heating) are open.
- Run one of the machine's built-in (standard) with heating.
- Check that the program proceeds normally, and the water filling, detergent filling, heating and motor action are all working in accordance with the program display on the display screen.

Final checking

If all function checks have been satisfactory, reassemble all protection casings.

Settings at the fisrt connection

Beffore using the machine , you must set some settings like language, ... as shown below :

Screen 1/8 : Select language



Screen 2/8 : Select region

Select region Region				Search Q
Region				search 🗸
0. No region				
1. Afghanistan				
2. Albania				
3. Algeria				
4. Andorra				
5 Anaola				
	<	Step 2/8	>	

Screen 3/8 : Select segment

Food manufacturing & proce	essing		
General			
Hairdresser			
Health Care			
Holiday Home			
Hospital			
(Step 3/8	>	

Screen 4/8 : Program layout setting

View mode		0: Grid	
		1: List	

Screen 5/8 : Daylight saving

aylight saving			
aylight savings enabled			
Start month			March
Start week			5
Start day			Sunday
Start hours			02:00 hr
End month			October
Endwark			
<	Step 5/8	>	

Screen 6/8 : Set date



Current time

<	Step 7/8	>	

12:15:05

Screen 8/8 : Wizard complete to validate the previous settings.



24 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.

24.1 Washing

The tub symbolizes washing.

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

24.2 Bleaching

The triangle symbolizes bleaching.

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

24.3 Drying

The circle in a square symbolizes tumble drying.

Symbols	Explanation
$\overline{\mathbf{\cdot}}$	Can be put in a tumble dryer. Normal temperature.
\odot	Can be put in a tumble dryer. Lower temperature.
\boxtimes	Do not put in a tumble dryer.

24.4 Ironing

The iron symbolizes the domestic ironing and pressing process.

Symbols	Explanation	
	Max. temperature 200 °C.	
···	Max. temperature 150 °C.	
$\overline{\cdot}$	Max. temperature 110 °C. The steam can cause irreversible damages.	
X	Do not iron.	

24.5 Dry or water cleaning

The circle symbolizes dry or water cleaning.

Symbols	Explanation	
(\mathbb{P})	Normal dry cleaning with perchloroethyl, solvent of hydrocarb.	
$\underline{\mathbb{P}}$	Mild dry cleaning with perchloroethyl, sol- vent of hydrocarb.	
Ð	Normal dry cleaning with solvent of hydrocarbon.	

Ð	Mild dry cleaning with solvent of hydrocarbon.	
\bigotimes	Do not dry clean.	
8	Normal water cleaning.	
(Mild water cleaning.	
	Very mild water cleaning.	

25 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/cm² 1 bar = 750.06 mm Hg 1 bar = 10 197 mm H2O 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 dm³ 1 cu ft = 1 728 cu in	cubic inch	1 cu in = 16.387 1 dm³
foot	1 ft = 304.8 mm 1 ft = 12 in	gallon (U.K.)	1 gal = 4.545 96 dm³ or l 1 gal = 277.41 cu in
gallon (U.S.A.)	1 gal = 3.785 33 dm³ 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/cm² = 98 066.5 Pa 1 kg/cm² = 0.980 665 bar 1 kg/cm² = 10 000 mm H2O 1 kg/cm² = 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 H2O 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



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