Electrolux PROFESSIONAL

PROFESSIONAL LAUNDRY

lagoon® Advanced Care

WH6-27LAC and TD6-30LAC

The ideal replacement for any dry-cleaning operation

Features and benefits

Keep customers coming back
Outstanding results for garments of every type thanks to specialized detergents and dedicated programs

Delicate on the delicates
Gentle on fine textiles and wools labelled dry-clean only, as less mechanical action. Woolmark-approved

Rapid return on investment
With a better loading factor, less prespotting, easier finishing and faster process times

Sustainable and eco-friendly
Water-based cleaning with none of the disadvantages of PERC, which can be dangerous to staff

Dry to dry in 1 hour
Smart chemicals and processes mean garments are fully dried in the dryer - no hang-dry

Richard Jay
We know how

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Main specifications				WH6-27LAC
Max. capacity	Laundry	filling factor 1:9	kg	27
	Wool	filling factor 1:13	kg	19
	Silk	filling factor 1:18	kg	14
Drum,	volume		litre	240
	diameter		ø mm	795
Extraction			rpm	1005
G-factor				450
Heating alternative		electricity	kW	23.0
Consumption data "lagoon"				
Total time	Wool High		min	25
	Wool Medium		min	25
	Silk		min	18
	Synth. mix Medium		min	26
	Synth. mix Low		min	21
	Curtains		min	25
Water consumption (cold+hot)				
	Wool High		litre	137
	Wool Medium		litre	112
	Silk		litre	98
	Synth. mix Medium		litre	119
	Synth. mix Low		litre	98
	Curtains		litre	141
Energy consumption (motor/heating/water)				
	Wool High		kWh	0.7/1.25
	Wool Medium		kWh	0.7/1.05
	Silk		kWh	0.6/0.7
	Synth. mix Medium		kWh	0.6/1.4
	Synth. mix Low		kWh	0.6/1.15
	Curtains		kWh	0.7/1.0
Consumption data ECO 60 1:9*				
Total time			min	65
Water consumption (cold+hot)			litre	161+10
Energy consumption (motor/heating/hot water)			kWh	0.55/3.2/0.55
Residual moisture			%	45

* Water temperature 15°C cold water and 65°C hot water.

Main specifications				TD6-30LAC		
Max. capacity	Drying	filling factor 1:18	kg	30.5		
Drum,	volume		litre	550		
	diameter		ø mm	913		
Heating alternative		electricity	kW	32.0		
		gas	BTU/h (kW)	11 2700 (33.0)		
		steam at 600-700 kPa		36.0		
Consumption data "lagoon"				El	Gas	Steam
Total time	Wool High*		min	22	23	22
	Wool Medium*		min	20	21	20
	Synthetic mix**		min	13	14	13
Consumption data* **						
Total time			min	23	24	23
Energy consumption (motor/heating/hot water)			kWh	12.19	13.27	15.24
Evaporation			g/min	543	512	550
Energy/Water evaporation			kWh/l	0.98	1.06	1.22

* 1:30 load 100% wool load at 30% initial moisture dryed to 0%.
** 1:40 load 100% synthetic load at 20% initial moisture dryed to 0%.
*** At rated capacity 100% cotton load at 50% initial moisture dryed to 0%.

Electrical connections				
Heating alternative	Main voltage Hz	Heating power kW	Total power kW	Recommended fuse A
Electric heated	415V 3PH + N+E** 50	19.8/23.0	20.5/23.7	35/35

* Total power and recommended fuse does not depend on the heating power in those cases.

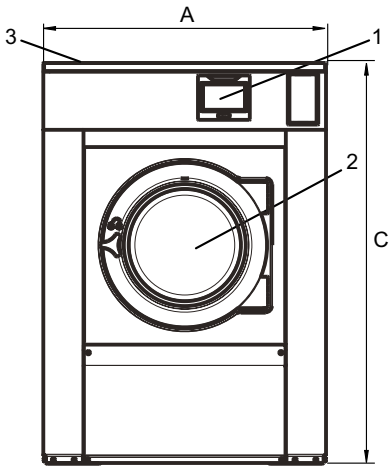
**with a 5% tolerance range

Water and steam connection		WH6-27LAC
Water valves	in	3/4
Water pressure	kPa	200- 600
Capacity at 300 kPa	l/min	60
Drain valve	ø mm	75
Draining capacity	l/min	170
Liquid detergent supplies		5
Floor requirements		
Frequency of the dynamic force	Hz	16.8
Floor load at max extraction	kN	5.2 ± 1.0
Sound levels		
Sound power/pressure level at extraction*	dB(A)	83/68
Sound power/pressure level at wash*	dB(A)	64/48
Heat emission		
% of installed power, max		5
Shipping data**		
Weight	net, kg	425
Shipping volume	m^3	1.82
Accessories		
Steel base		x
Hose kits for water or steam		x
Fluff collector		x
Dimensions in mm		
A Width		1020
B Depth		990
C Height		1460
D1		490
D2		555
E		1555
F		1165
G		135
H		1365
I		400
J		300
K		1325
L		1245
M		335
N		100
O		360
P		340
Q		215

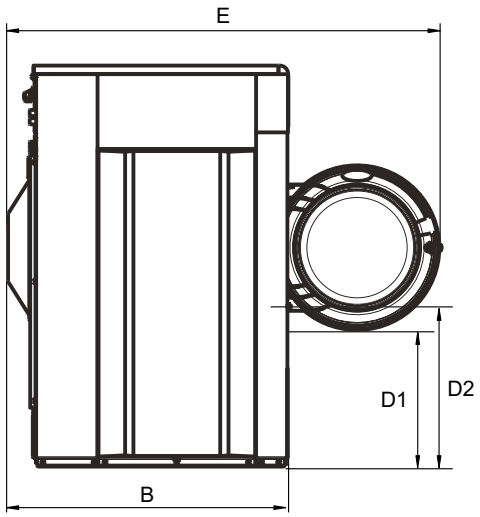
1 Display
2 Door opening ø 435 mm
3 Detergent box
4 Cold water
5 Hot water
6 Cold/Hot water
7 Re-used water
8 Drain valve
9 Liquid detergent supply
10 Electrical connection
11 Steam connection

* Sound power levels measured according to ISO 60704.

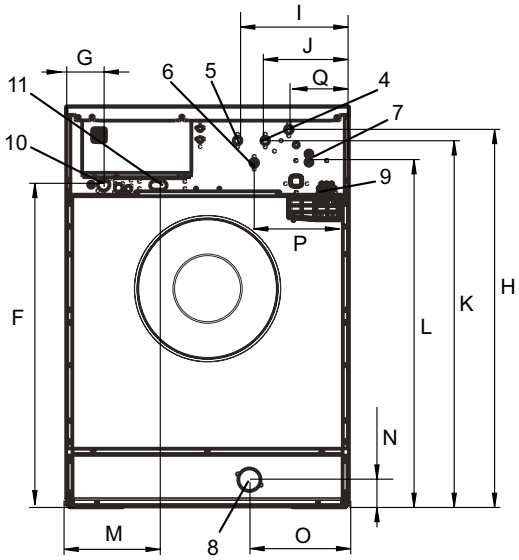
** Average data. Crated weight/shipping volume depends on configuration. Please contact logistics for exact measures.



Front



Side view



Rear

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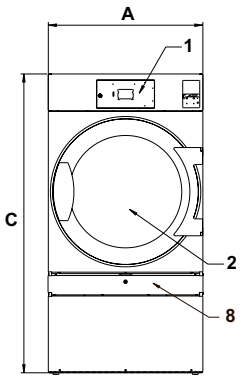
Electrical connections				
Heating alternative	Main voltage Hz	Heating power kW	Total power kW	Recommended fuse A
Electric heated	415V 3PH N+E** 50	18.0	19.5	35
Gas heated	240V 1PH N+E** 50	-	1.8	10

* Total power and recommended fuse does not depend on the heating power in those cases.
**with a 5% tolerance range

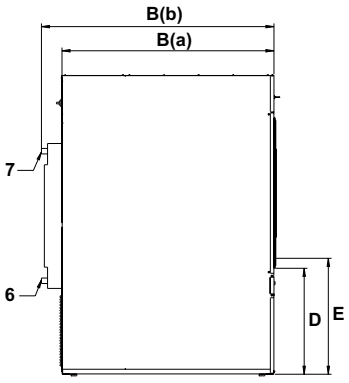
Steam, gas and air connections			TD6-30LAC
Steam		in	1
Steam pressure		kPa	100-1000
Steam consumption		kg/h	65
Condensate		in	1
Gas		in	1/2
Gas pressure	Natural gas	Pa	2000
		mbar	20
Air outlet	LPG	Pa	2800-3700
Maximum air flow:		mbar	28-37
		ø mm	200
	Electric 50 Hz	m^3/h	940
	Gas 50 Hz	m^3/h	940
	Steam 50 Hz	m^3/h	1080
Maximum static back pressure:			
	Electric 50 Hz	Pa	480
	Gas 50 Hz	Pa	420
	Steam 50 Hz	Pa	1300
Sound levels			
Sound power/pressure level at drying*		dB(A)	74/57
Heat emission			
% of installed power, max			15
Shipping data**			
Shipping volume		net, kg	280
		crated, m^3	2.80
Dimensions in mm			
A	Width		960
B(a)	Depth		1365
B(b)	Depth		1445
C	Height		1855
D			660
E			720
F			170
G			1490
H			200
I			180
J			1560
K			50
L			480
M			580
N			805

1 Control panel
2 Door opening ø 810 mm
3 Electrical connection
4 Gas connection
5 Exhaust connection
6 Condensate connection
7 Steam connection
8 Lint screen

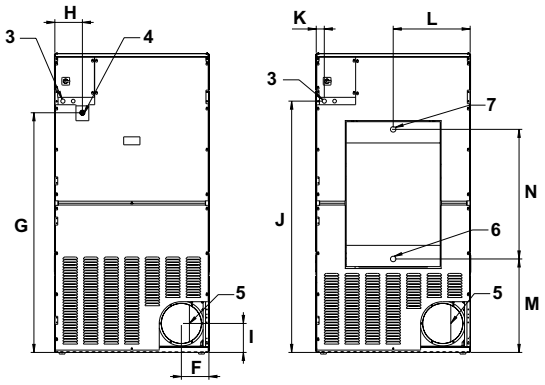
* Sound power levels measured according to ISO 60704.
** Average data. Crated weight/shipping volume depends on configuration. Please contact logistics for exact measures.



Front



Left side



El, gas Steam

Rear side

Jetsave PNCs	Description
988930001	Complete kit with 2 pumps, 550 ml/min
988930002	Complete kit with 3 pumps, 550 ml/min
988930003	Complete kit with 4 pumps, 550 ml/min
988930004	Complete kit with 5 pumps, 550 ml/min

Acessories PNCs	Description
988916611	Single low level probe
432930071	Extension POWER cable (6m)
432930072	Extension DATA cable (6m)
988980031	ID interface for 3rd part party peristatic pumps or option for Low level alarm
432930065	Joining kit

Power supply
From the washer extractor: 100-240V~ 50/60 Hz / 0.1A (Max)

Water supply
Min. 1.8 bar Max. 6 bar

Electrolux name and description	Packaging 20 litres	Packaging 10 litres
W01 - lagoon Sensitive Detergent Professional detergent for natural/animal fiber	432731085	432731086
W03 - lagoon Sensitive Conditioner Professional conditioner for natural/animal fiber	432731087	432731088
W02 - lagoon Delicate Detergent Professional delicate universal detergent	432731089	432731090

For further information including spotting agents, please refer to the lagoon detergent Product Data Sheet

BASE; closed front and sides

Suitable for models:	WH6-27LAC
988918871	
Height:	230 mm
Material:	Galvanised, silver grey painted steel with stainless steel front panel.

BASE; "floating foundation"

Suitable for models:	WH6-27LAC
988918872	
Material:	Galvanised, silver grey painted steel with stainless steel front panel.
Feature:	A "floating foundation" filled with concrete eliminates noise to other parts of the building.

Electrolux Industrial Washers – H Models – Installation Guideline

Foundations

The machine requires a foundation of solid and level concrete construction at least 100 mm deep. If a new concrete pad is to be laid it must be keyed correctly into the existing foundations. The concrete foundation should always be greater in size than the machine and a minimum of 100mm from the edge of the concrete foundation to the edge of the machine must be provided. A metal raising plinth can be used to raise the machine above the drain level for a correct evacuation of water from the machine if required. If block and beam or any other type of floor is present, seek advice.

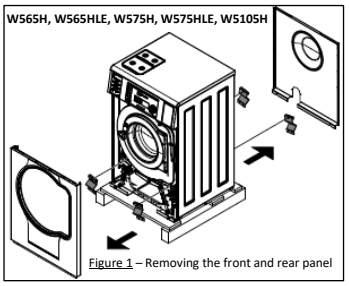


Figure 1 – Removing the front and rear panel

Fixings

A minimum service distance of 750mm is to be provided behind all machines, excluding WH6-6 / PW9C which don't require this service distance and can be moved during servicing.
All machines ship with 4 x feet and 2 x M10 expansion bolts (WH6-6 excluded), these need to be fitted and machine leveled with both nuts located on the feet in the up position.
Shipping brackets must be removed, failure to do this will result in serious damage to the appliance and place the user at high risk.

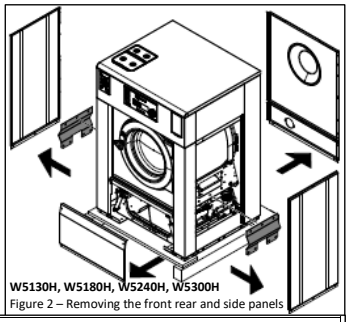


Figure 2 – Removing the front rear and side panels

Water Supply

The machine is supplied with two or three ¾ inch water inlet hoses, depending on the machine size, 1 or 2 cold and 1 x hot. All water intake connections to the machine should be fitted with manual shut-off valves and filters, to facilitate installation
and servicing. Water pipes and hoses should be flushed clean before installation. The machine must be connected with new water hoses, old hoses must not be re-used. Hoses should be an approved type and grade, and comply with IEC 61770. After installation hoses must hang in gentle arcs. All connectors present on the machine must be connected. A minimum supply pressure of 300 kPa and maximum supply pressure of 600 kPa is required. In hard water areas, above 150 PPM, it is recommended that the water supply is fitted with a water softener. Failure to do so will result in detrimental effect on some component parts and may affect the standard warranty.

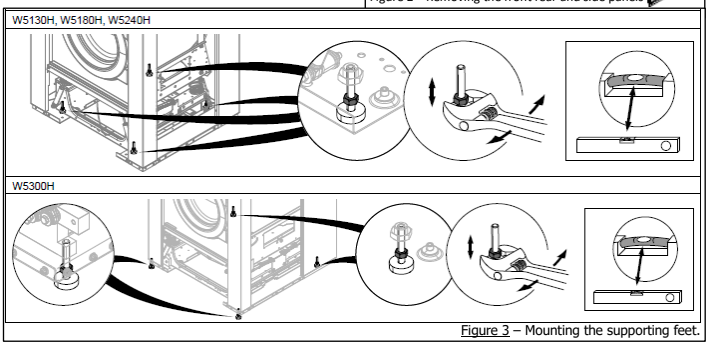


Figure 3 – Mounting the supporting feet.

If the hot water supply is insufficient in temperature, pressure or flow, the machine can then be connected solely to a cold water supply, however will lengthen cycle times. This can only be done if the machine is equipped with a heating source, i.e. electric elements or a steam supply.

Drainage

50mm stand pipe @ 1meter in height is needed for WH6-6 and PW9C. 50mm drain pipe at floor height is required for W5105H. All other machines require 75 mm drain pipe at floor level. This must ensure a downward flow from the machine. Avoid sharp bends which may prevent proper draining.

For gravity drain machines fitted with a drain valve, the drainage pipe should be located over a floor drain, drainage channel or the like so that the distance between the outlet and the drain is at least 25 mm.

Electrical

In instances where the machine is not equipped with an omni-polar switch, one must be installed beforehand. In accordance with the wiring rules: mount a multi-pole switch prior to the machine to facilitate installation and service operations. The connecting cable should hang in a gentle curve. When connecting to a terminal block, the connection cable shell must be stripped 10-11 mm. The cable area must be at least 0.5 mm2 and no more than 4 mm2.The terminal block used is a spring loaded cage clamp.
Each machine must be individually protected. The isolation point for the machine should be in a readily accessible position for use in an emergency. All cabling to the machine must be sufficiently protected against damage. It should be correctly sized to the current rating of the machine and be connected to the machine using a suitable cable entry fixing. Circuit breakers or fuses can be used to protect the power supply. If fuses are used, then they must be of the motor rated variety. A responsible and competent operative should carry out all electrical work and ensure that all local and national regulations and codes of practice are complied with.

Steam (Optional)

The machine should be connected to suitably sized live steam supply utilising an isolating valve, strainer/trap, electric solenoid inlet valve and a flexible steam connection hose. (Please note none of these fittings are supplied with the machine). All pipes should be lagged to protect against personal injury. All steam supply pipes should be installed to local and national codes of practice as they form part of a pressurised system.

NOTES:-

WHERE EXISTING SERVICES ARE TO BE CONNECTED TO, THE INSTALLER MUST ENSURE THAT THESE ARE ADEQUATELY SIZED AND THAT THEY ARE IN GOOD WORKING ORDER. FOR EXAMPLE, IF A WASHER IS TO BE CONNECTED TO AN EXISTING DRAIN IT MUST BE CHECKED FOR ANY BLOCKAGES DURING INSTALLATION.

FOR MULTIPLE MACHINE INSTALLATIONS SERVICES MUST BE INCREASED IN SIZE ACCORDINGLY. I.E WATER PIPES, DRAINAGE PIPES, ELECTRIC CABLES ETC.

All specifications subject to change without notice.
Installation Guideline is provided by
Richard Jay Pty Ltd www.richardjay.com.au

Electrolux Industrial Dryers – Installation Guideline

Foundations

- The machine should be sited on a firm level floor capable of withstanding its loaded weight.

Setup

- Two persons are recommended for the unpacking.
- The machine is bolted onto the transport pallet, remove the bolts between the machine and pallet. There are two bolts in the front of the machine and two in the back of the machine.
- The machine is delivered with supporting feet & must be levelled.
- The machine should be positioned so that there is plenty of room for working -(min. 500mm), both for the user and service personnel.

Electrical supply

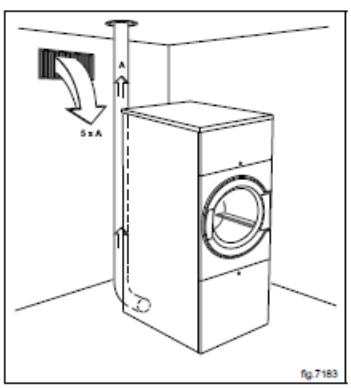
- A competent installer must carry out all work. All work and materials must comply with local and national codes of practice.
- The machine must be installed using correctly sized cable (not provided)
- Each dryer must be provided with a separate isolation point, usually a fused switched outlet, with it's own circuit.
- Electrical connections are made inside the rear service box located at the upper left of the machine. Notice must be taken of the connection diagram.
- The isolator must be in an accessible position for emergency shut off.

Gas supply

- A qualified and competent person should carry out the installation of the gas supply. All gas work must be carried out by a registered AGA gas operative and must comply with all regulations relating to the installation.
- Ensure that the correct pressure is supplied to the dryer. Dependi6ng upon the type of gas used if the inline pressure exceeds that which is required a regulator should be fitted. If this is the case consult the supplier.
- The machine is designed to burn at a certain rate, known as the BTU rating of the appliance. To ensure that this rate is maintained the gas supply should remain constant. To achieve this the supply line must be of the correct size. Distance from the meter and other appliances on the same supply will have an effect on the pressure. Each dryer should have a gas isolation tap test gauge point, and restraining wire/chain
- The machine should be connected to a supply using a flexible armoured hose as vibrations could cause a solid connection to fracture. The hose may have union or bayonet connection points. A bayonet connector should not be used as an isolation point.

Exhaust

- All exhaust ductwork must be designed by a competent operative to ensure that the installation does not have any detrimental effect on dryer performance.
- The duct should follow the shortest possible route to atmosphere using the least number of bends possible and should be constructed of a smooth wall, rigid stainless steel or galvanised tubing. Flexible ducting must not be used.
- The diameter of the duct must never be reduced in size.
- If a common duct is to be used to vent a multiple dryer installation the diameter shall be increased to accommodate the cumulative effect of all dryers.
- Exhaust terminations may be hooded weather cowling (china hat) for vertical ducts or a downturn 90º elbow for horizontal. Louvres or grills may be used to prevent entry by foreign objects but consideration must be given to potential restrictions to air flow. When louvres and grills are used they must be in an accessible location for regular cleaning
- The exhaust should be properly sealed at all joints (no rivets).
- The exhaust air should not be vented into a wall, a ceiling, or a concealed space of building. Air must be vented outdoors.

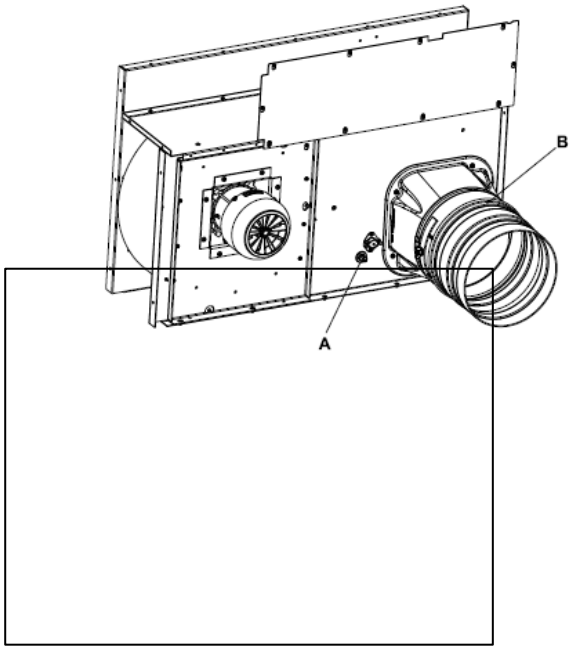


Ventilation

- The dryer removes a large amount of air, while it is operating, from the room via the exhaust. Therefore, the air inside the room must be continually replenished with fresh air from atmosphere.
- If there is an imbalance between the air being pushed out to that which is being drawn in, there will be an adverse effect on the performance and operation of the dryer.
- Where louvres or grills are fitted then the size should be increased to achieve the correct size of free air space. Ventilation must be fixed and unrestricted. Ventilation should not be positioned within two metre of exhaust duct outlet. If more than one dryer is installed the opening can be increased to match their requirements; there is no need to make a separate opening.
- The area of the air inlet opening must be five times the size of the exhaust pipe area. The area of the inlet opening is the area through which the air can flow without resistance from the grating/slatted cover.

Static Back Pressure

- It is important to calibrate static back pressure according to ducting provided on site, this ensures optimal energy efficiencies and best performace.
- Adjust the dryer's damper by demounting the lower back panel and losening the screws. B in below image.
- Measure the pressure with an airflow meter by removing the NTC sensor (A) and testing the airflow, adjust the the damper until ideal pressure is reached per below table and taighten screws once achieved.



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