SUZOHAPP



Laundry PRO

Laundrette activation system



Quick Guide



ΕN

GUIDE TO THE SYMBOLS IN THIS MANUAL

The following symbols have been included in this manual to facilitate its understanding.



Important information



Read carefully before use



Caution!

Periodically check our website at the address: http://www.comesterogroup.com/cms/product/328-laundry-pro.html

to find the updated user manual of Laundry Promachine

DECLARATION (E OF CONFORMITY

THE MANUFACTURER: Comestero Group S.r.l. via M. Curie 8,20060 Gessate MI

DECLARES that the product

TYPE: Laundrette activation system TRADEMARK: Comestero MODEL: Laundry PRO

Comply with the following European Directives, including their latest changes, and with the relative national laws applying such directives:

2004/108/CE 2006/95/CE

And that the following harmonised standards have been applied:

EN 55014-1

EN 55014-2

EN 61000-3-2

EN 61000-3-3

EN 62233

EN 60335-2-82 used in conjunction with EN 60335-1

Gessate, 13/04/2012 Riccardo Chionna, CEO Comestero Group S.r.l.

SAFETY INFORMATION

This machine is equipped with safety devices in order to prevent damage due to short circuits and fire.



These devices must not be be excluded from the circuit, removed or disabled for any reason.

If the devices must be disabled to carry out maintenance or servicing, operate on the appliance only when the power supply has been switched OFF.



The safety devices have been made in compliance with the regulations in force.

The operator must regularly verify the efficiency of the equipment.

Risks deriving from using the machine

This machine has been designed exclusively for indoor use

If maintained in good operating conditions and installed correctly (according to the indications in this manual), the machine does not expose the user to any kind of hazards.

The personnel in charge of loading the dispensers, starting up the equipment and of the machine maintenance, must bear in mind that: all moving parts, doors and cashpoint, can cause various types of injuries if not handled properly; moreover, it is important to disconnect the power supply for any operation carried out on the open equipment (maintenance, etc.)



Crushing hazards: during handling the moving components of the equipment.

The compartments must be opened and closed slowly and carefully.



Electrical hazards: direct contacts during its connection to the main power supply.

Operations to be carried out by qualified personnel.

Risks during installation and preparation of the device

Follow the installation instructions, in order to minimise risks to people and objects.



Crushing hazards: during handling and positioning the equipment.

All equipment transport operations must be carried out by **qualified personnel** in load handling operations (forklift operators, etc.).

Precautions:

- o Use adequate lifting devices and harnesses.
- o Carry out operations in areas that are free from obstacles and people.
- o Before lifting always ensure that the load is stable and carry out all movements carefully, avoiding any oscillation.



Risks from electricity: direct contacts during its connection to the main power supply. Operations to be carried out by qualified personnel.

Precautions:

- o Make sure that the distribution line is sized according to the amount of the current absorbed by the equipment.
- o Connect the system to ground before connecting the machine and the accessories.

Risks during the maintenance of the device



Electrical hazards: direct contact with live parts within the electrical cabinet. Where the electrical components are housed. Operations carried out by a **qualified personnel**.

Precautions:

o Operate on the machine only after ensuring that the main power switch is turned OFF.

Signs

The machine is equipped with warning labels showing conventional hazard signs with symbols and/or written messages. The labels are located near the hazardous areas.







GENERIC DANGER

RISK OF ELECTRIC SHOCK

EARTHING

GENERAL GUARANTEE CONDITIONS

Please read the following carefully in order to understand the general warranty conditions for this product.

ART. 1 - Scope of application

These general terms and conditions shall apply to all the goods and services provided by our company. Placed orders shall imply the full and unconditional acceptance of these general terms and conditions of sale. The contract of sale shall be considered perfected when the Purchaser receives the order confirmation from the Seller.

ART. 2 - Electromagnetic compatibility and safety

Our company certifies that the supplied goods comply with the standards concerning electromagnetic compatibility and safety; mandatory declarations are indicated in detail in the plates and labels affixed on the products and in the technical documentation attached or available at our premises. The recipients of the supply undertake to use or market the supplied goods, ensuring the integrity, completeness and usability of such information.

ART. 3 – Warranty

Except in cases where the mandatory provisions in Leg. Decree No. 206/2005 ("Consumer Code") or in other relevant laws are to be applied, the goods and services are supplied under warranty by our company for a period of 12 months. This period starts from the date of purchase of the product. The warranty is exclusively limited to the normal operation of the goods supplied and to the result of the service provided. The warranty exclusively involves the repairs or replacement of the goods. Restoration of the goods to their normal operative state shall be carried out in our factory. Although not provided for here, Art. 1512 CC is also applicable in terms of revocation and limitation.

Our company shall not be liable in any way for operation of goods supplied in environmental conditions or technical conditions other than those established by our specifications, usually set out in the technical documentation. Any liability for direct or indirect damage not deriving from a malfunction is expressly excluded.

The warranty is void and null if the purchaser is insolvent in paying the established price.

The warranty does not apply in the following cases:

- 1. lack of or improper maintenance, even if carried out by qualified personnel;
- 2. repairs or alterations made by the purchaser on his unilateral initiative;
- 3. inadequate or irregular voltage in the power lines, insufficient flow rate and abnormal electrical systems;
- 4. corrosive action of detergents;
- 5. poor or non-functioning software or hardware or loss of data recorded by the purchaser as a result of storms, lightning, high temperature or voltage variations of the electric current, earthquakes, fire, etc.;

- 6. with reference to all the electrical components and mechanical plastic moving parts subject to normal wear, which must be replaced during routine maintenance;
- 7. where the products have been used in conjunction with or incorporated into equipment or materials whose specifications have not been approved in writing by the selling company;
- 8. tampering with the label showing the serial number of the machine;
- 9. fault or breakage due to transport, acts of vandalism, natural calamities or wilful damage;
- 10. wrong or bad installation of the product;
- 11. carelessness, negligence or lack of skill in using the product;
- 12. failure to comply with the operating instructions in the technical manual;
- 13. interventions for alleged defects or casual checks;
- 14. repairs carried out without our authorization.

Malfunctioning of the machine due to the software not being upgraded is not considered a defect. Comestero is not obliged in any way to upgrade the software free of charge or upgrade the mechanical components which may be necessary due to new coins or banknotes being introduced by the Italian and European authorities, when repairing a product that is covered by the warranty. However, such upgrades could still be requested from Comestero and the company is obliged to send a quotation to the customer prior to intervention.

Any repair or tampering carried out on the supplied goods by subjects who are not authorized by us will render the warranty null and void.

We declare to have carefully considered, to the best of our knowledge and manufacturing practices, the issue related to preventing the goods supplied from being violated by persons who intentionally intend to alter their operation. However, we shall no assume any liability for illegal conduct or damage that may result fraudulent use of the goods supplied. All required repairs not covered by the warranty must be paid for and the Comestero price list shall apply whose updates are regularly communicated.

ART. 4 – Limitation of Liability

Notwithstanding the hypotheses in art. 1229 of the Italian Civil Code and notwithstanding the mandatory provisions of law, for every damage caused directly or indirectly by failures or delays of the Seller or by the purchased products to objects or persons, including but not limited to lost profits and damage to the corporate image, the compensation payable by the Seller shall not exceed, in any case, 10% of the amount paid by the Purchaser for the product that caused the damage.

ART. 5 - Delivery

The goods subject of the supply are considered delivered at the time and in the place they are passed on to the carrier; therefore, our company shall not be held liable for total or partial shortages, damage or delays related to transport. Upon delivery, the recipient must duly note any errors or damage on the bill of lading. The Purchaser's refusal to accept or collect all or part of the ordered goods does not suspend obligation to pay. The terms of delivery indicated in the order confirmation allow for a grace period of 60 days. Upon delivery, the Purchaser must carry out a complete technical verification of the quality and functionality of the product within eight days. If

not, the product shall be considered accepted without reservations or objections by the Purchaser.

ART. 6 - Retention of Title

The supplied goods shall remain the property of our company until full payment of the price has been made. In the event of termination of the contract for non-payment, the Seller is entitled to claim the unpaid items held by the Purchaser, which must be returned at the Purchaser's expense. All sums already paid will be retained by the seller as compensation and penalty.

ART. 7 – Terms of payment

Invoices must be paid in accordance with the agreements and within the deadline specified on the invoice. Any delay in payment will automatically result, without the need of formal notice, the application of interest at the rate stipulated in Legislative Decree no. 231 of 9.10.2002, unless agreed otherwise. If the purchaser delays, each benefit in the terms and conditions that may have been granted shall be deemed null and void and the seller may demand immediate payment of all outstanding amounts as well as of additional orders on receipt of the goods.

ART. 8 - Returns

Return of faulty goods or of goods requiring our assistance must be expressly authorised by us. Therefore, we reserve the right to reject the return or ask you to return the good to another destination other than our headquarters. We shall be liable for the goods only when it will be delivered to the indicated address.

ART. 9 - Applicable law and court of jurisdiction

The supplies regulated by these general terms and conditions are governed by Italian law. Any dispute shall be resolved by the Court of Milan.

Dear Customer.

Thank you for choosing a Comestero product. By carefully following the indications of this instruction manual, you will be able to appreciate over time, and with much satisfaction, the quality of our machines.

Please read the use and maintenance instructions carefully and comply with all safety precautions before using the equipment. Keep this manual for future reference.

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1. Introduction

This quick guide and its annexes provide all the necessary information for a correct installation of the product and all its parts, as well as for its correct use and maintenance.

The information contained in this manual can be modified without prior notice and do not constitute a commitment on behalf of Comestero.

The information contained in this manual has been collected and verified with the utmost care; however, Comestero has no liability arising from its use.

When not specified otherwise, all references to companies, names, contacts and addresses used in the examples are purely fictional and have the aim of illustrating the operation of the product.

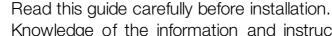
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2. Product description

Laundry PRO is a new automatic cash-point with innovative design and advanced features, projected for self-service laundromats. The user interface is capable to manage up to 40 washing and drying machines. The configuration parameters are set up quickly and the 17" colour touch-screen easily guides the user through the programmes. It is equipped with tools that are useful for implementing promotional campaigns and customer loyalty. The barcode reader, which is available as an optional accessory, allows you to manage discounts and bonuses for promotional actions.

Laundry PRO also provides great flexibility in payment, which can be made either in cash (coins and banknotes) or by cashless devices, recognized by the integrated reader. The openable doors, front and rear, allows to execute the operations of control, recharge and maintenance of the machine in practical and secure way, in any type of installation. Both the front panel and the screen can be customised according to the aesthetics and brand of the shop.

3. Warnings





Knowledge of the information and instructions of this manual is fundamental to use the product correctly. Check upon receipt that the package and the product have not been damaged during transport. Pay attention to the electrical connections. Faults and malfunctions deriving from non-compliance with the instructions contained in this manual are not covered by guarantee. In this document, symbols are used to highlight important aspects that must be carefully observed.

4. Handling and unpacking

4.1 Delivery of the packaged product

Check upon receiving your product and make sure it has not been damaged during transport. Should any damage be noticed of whatever nature, contact the delivery company and immediately file a complaint. After transport, the package must be intact, i.e., it must *not* show:

- o Show dents, signs of knocks, deformation or rupture of the packaging.
- o Show areas that are wet or signs which indicate that the package has been exposed to rain, frost or heat.
- o Signs of tampering.

Also, check that the content of the package matches to your order. After the inspection, re-insert the device in its packaging for transportation to the place of final destination.

4.2 Handling



To prevent any damages to the machine, we recommend moving it only within its original package, using adequate handling machines. Follow carefully the handling instructions printed on the box.

We recommend:

not to drag the machine

not to turn over or lay down the package during transportation and handling

not to bump the machine

not to leave the machine (even if still in the package) exposed to atmospheric agents

4.3 Unpacking

After being tested and tooled, the machine is delivered inside a corrugated cardcard packaging, which protects it during transport and handling.

To facilitate loading/unloading the product, also by means of earth moving machines (transpallets), the box sits on an appropriate wooden pallet (up to two machine units per pallet).



Follow the instructions printed on the box when unpacking. Both the carton package and the pallet comply with the standards regarding recycling and disposal (as for disposal, follow the regulations in force in your country).

5. Cash-point identification

5.1 Identification plate

Figures 1 and 2 and 3, show the location of the identification plate with all the main operating and identification features of the equipment.

Particularly important is the serial number printed in the appropriate field.







Fig. 2 Fig. 3

This number must always be mentioned when requesting assistance, spare parts, repairs or further information on the equipment.

Every device has two identification plates, one installed on the outside of the equipment and one on the inside wall of the cabinet, as shown in the Figure 2 and 3.

This is in order to ensure that the serial number can be read even when the machine is positioned inside a cabinet or wall mounted.



The machine identification plate must be clearly readable.

Do not remove it. Do not tamper with the details shown on it.

Should you damage or lose the identification plate, request a replacement to the manufacturer with a new one.

Please remember that the guarantee is associated with the machine identification number.

5.2 Name of parts

5.2.1 External front view

- 1. Coin acceptance
- 2. Banknote acceptance
- 3. Key/Card reader
- 4. Barcode scanner (Optional)
- 5. Card dispenser compartment (Optional)
- 5. Coins dispenser compartment
- 6. Lock to open the front door
- 7. Touch screen
- 8. Ventilation slots

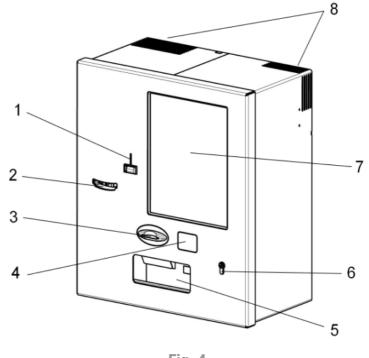


Fig. 4

5.2.2 External rear view

- 11. Fan
- 12. Ventilation Splits
- 13. Fan for Power Supply Unit
- 14. Power supply switch
- 15. 3BIO VEL connector line
- 16. Recessed fastening bracket/holes for fastening to the wall
- 17. Wall hooking plate
- 18. Lock to open the rear door

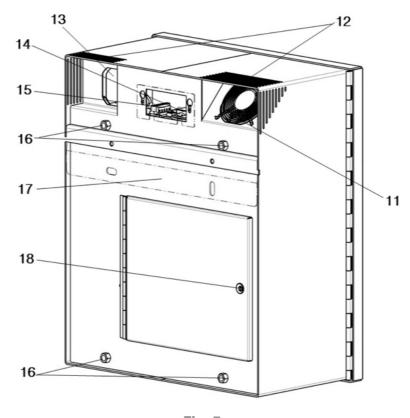
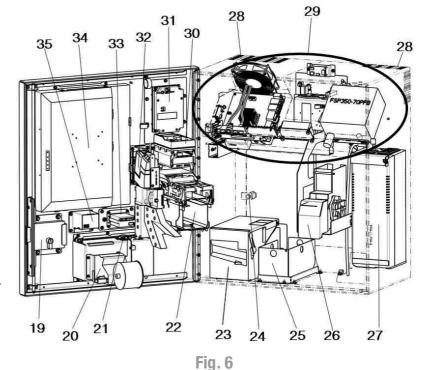


Fig. 5

5.2.3 Internal view

- 19. Front Lock
- 20. Printer (Optional)
- 21. Loudspeaker
- 22. Banknotes reader
- 23. Multi-coins Hopper
- 24. Rear Lock
- 25. Overflowing coins case
- 26. Card Dispenser
- 27. UPS
- 28. Ventilation Splits
- 29. Tray
- 30. POS Card reader (Optional)
- 31. POS Keypad (Optional)
- 32. Coin Validator
- 33. Key/card reader device
- 34. Touch screen
- 35. Barcode reader (Optional)



5.2.4 Folding tray plate

- 36. Power supply
- 37. 3BIO VEL cards interface connector
- 38. Main switch
- 39. Prot card
- 40. Mains filter fuse
- 41. Mains connection
- 42. Mothercard
- 43. Fan
- 44. Reset button
- 45. USB ports

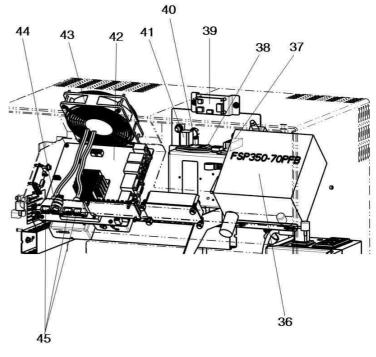


Fig. 7

6. Installation

6.1 Preliminary operations

Before installing the Laundry PRO it is necessary to make sure all the machines (washers/dryers) have been correctly connected to the various services (water and electricity network connections).

In particular:

- Make sure that the washing and drying machines are set to be connected to the payment system (in case, verify with the machine supplier).
- Make sure you have the wiring and connection diagrams of all the machines to beconnected available.
- Connect all the machines to the relative systems (electrical, water, gas and discharge) in full compliance with regulations in force.
- Make sure there is a grounded socket near the Laundry PRO.
- Before installing the cash-point, arrange the connection cables in special conduits as well as the 3BIO VEL electronic cards that control the machines.

The cash-point can be installed in two different manners according to the customer's requirements:

1) Recessed

Laundry PRO can be wall recessed mounted by means of a perimeter flange and the brackets.

2) Suspended

Laundry PRO has four pre-cut holes on the back of the cabinet, for fastening it to the wall by means of plugs with or without the aid of the bracket.

6.2 Dimensions

Below is a series of images that show the overall dimensions of the equipment in its two installation options. Choose with care the place where to install the equipment to ensure adequate stability.

6.2.1 Recessed installation

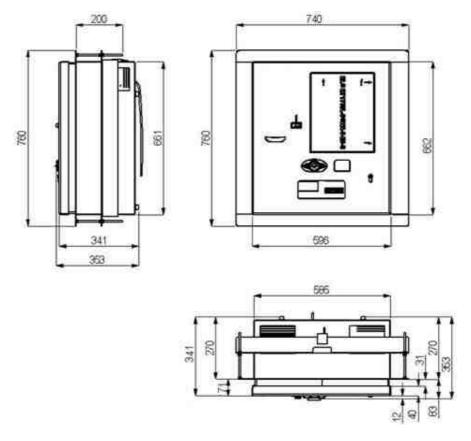


Fig. 8

6.2.2 Suspended installation

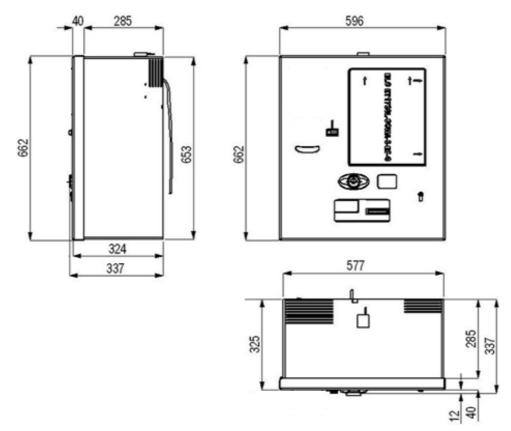


Fig. 9

6.3 Recessed installation

Laundry PRO can be wall recessed mounted by means of a bracket.

Figure 10 shows the groove that must be performed on the wall to allow the Laundry PRO recessed installation. The arrow in the drawing shows where is the screen monitor center.

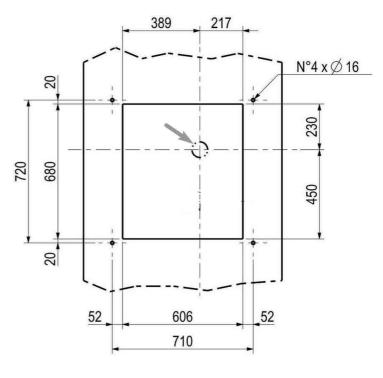


Fig. 10

Fasten the bracket to the rear of the Laundry PRO by means of 4 M12x25 screws, with relative Ø12 flat and grower washers (Figure 11).

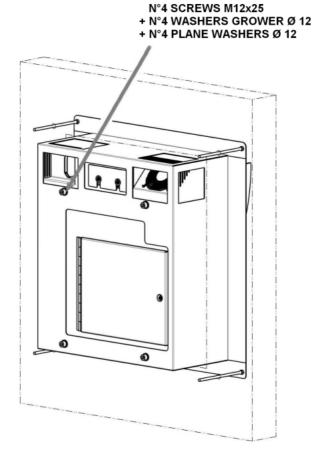
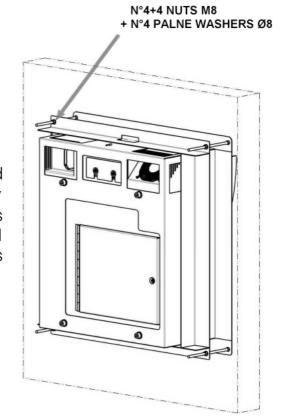


Fig. 11



Insert the equipment in the previously created groove closing the machine on the wall by means of the counterflange using 4 M8 nuts (interposing the relative Ø8 flat washers) and locking all by means of 4 M8 counter nuts (Figure 12).

Fig. 12

6.4 Suspended Installation

Figure 13 shows the dimensions [in mm] for fastening Laundry PRO to the wall by means of plugs.

Laundry PRO has four pre-cut holes on the back of the cabinet for fastening it to the wall. Plugs must be chosen according to the wall and the empty weight of the equipment which is approximately 68 Kg.

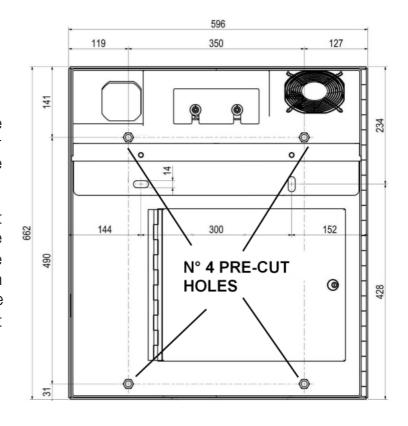


Fig. 13

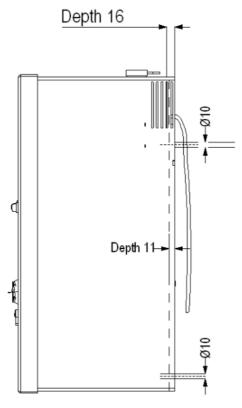
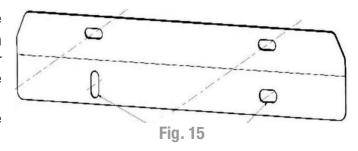
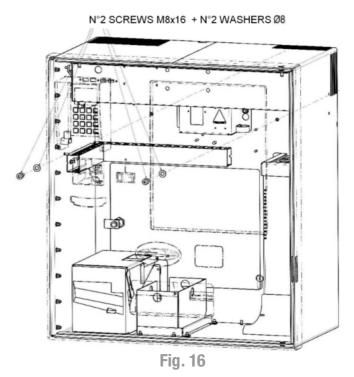


Fig. 14

Alternatively, the equipment may be suspended by means of a bracket with slotted holes, which allows greater adjustment (Figure 15). In this case, use the plugs to lock the wall bracket, levelling it through the eyeholes in the bracket.



At this point, insert the Laundry PRO on the bracket locking the vertical movement by means of 2 TE M8x16 screws with relative washers Ø8 mm (Figures 16 and 17). Then fasten the lower part of the equipment to the wall by means of 2 washers in order to prevent tears to the frame.



- 1 Angular Joint Cabinet Bracket
- 2 Screw With Washer
- 3 Mounting Bracket
- 4 Screw For Wall Anchor

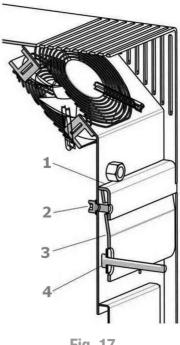


Fig. 17

7. Connections



All the electric connections of the machine have been installed except for the power supply. Before connecting to the mains, make sure the main switch of the machine, located in the top rear of the equipment, is set to "0", OFF position (Figure 18).

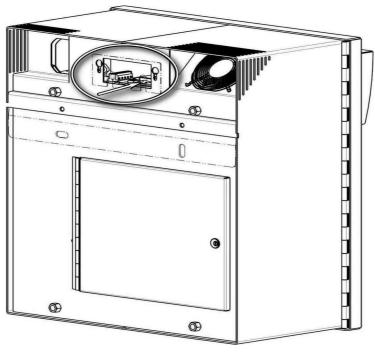


Fig. 18



Make sure that the distribution line is sized according to the intensity of the current absorbed by the machine. Check that the power socket to which the machine is going to be connected has an electrical rating suitable to the machine and that it is protected by a residual current device with suitable rating. Use the appropriate cable, which is supplied.

Carry out the earth connection before connecting equipment or aggregate devices.

N.B. For installation please refer to the specific standards regarding protection against electric contacts in order to perform installation.

All Laundry PRO electric connections are installed on the machine except for:

- o connection to the 230 Vac 50 Hz electric mains.
- o connections to RS485 peripheral devices. The 3BIO VEL cards are optional.

7.1 Preliminary operations

- Laundry PRO must be already placed on the wall or in its housing.
- The power supply and signal cables must be already in place, starting from the cash point and reaching all the machines without interruptions.
- To simplify the connections, ensure a greater cable length near the cash-point and all the machines (approximately 1 metre).
- The presence of qualified personnel that know the washing and drying machines perfectly is required.



It is important to have all the technical information regarding the duration of the washing/drying machine input enabling signal, which is different for each manufacturer. This is the amount of time required by the machines to receive the consent signal from the cash-point.



Make sure that the socket to which to connect the equipment is suited to the features of the equipment and that it is protected by an adequate differential magneto-thermal switch. The switch must ensure the complete disconnection from the network, with a distance of opening the contacts under the conditions of the overvoltage category III. The switch of disconnection from the network must be easily accessible. Make sure the system is voltage free before connecting it to the mains.

7.2 Connection to the mains

The client is responsible for connecting the equipment to the electric mains and creating a system in compliance with IEC 64-8 standard "Electric plant using nominal voltages not higher than 1000V in alternating current".

Bring on the rear of the cabinet, the power cord, phase, neutral and earth and connect it to the connector IEC C13 "supplied with the machine, shown in the Figure below.

N. B. Use exclusively a cable self-extinguishing.

Connect the mains power supply (230 Volt 50Hz) to the socket provided with the machine.

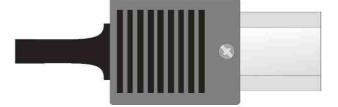


Fig. 19

- L Phase 230 Volt 50 Hz (Brown cable)
- N Neutral 230 Volt 50 Hz (Blue cable)



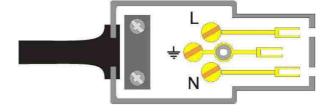


Fig. 20

7.3 Connection to the 3BIO VEL cards

Laundry PRO uses electronic cards called 3BIO VEL for managing I/O control washers/dryers. The data transmission is serial RS485 multi point.

7.3.1 Cabling

To connect the machine to the 3BIO VEL peripheral devices, the user must purchase two types of cables:

- 1) A specific RS485 cable (A).
- 2) A standard bi-polar power supply cable (B).

It is a correct choice to make sure that the control cables of washing machines are not in contact with tension cables used for feeding power supply 230 Vac.

In case it is not possible it is necessary a double insulation between the cables of low voltage signal and that of the mains.

N.B. The card 3BIO VEL must be installed within a technical compartment appropriately arranged and accessible only to qualified personnel. Install the cards 3BIO VEL inside junction derivation boxes with a degree of protection of at least IP55. Do not install the cards 3BIO VEL inside of washing machines.

The RS485 cable must have:

- a) A pair of twisted cables with a section of at least 0.26 mm².
- b) Shielding.



As an example, references to BELDEN cables are shown in the links below.

For urgent orders, please see the details for purchasing through one of the Farnell electrical and electronic material distributors:

- o Belden Code 9271 060500 BELDEN CABLE, 9271 TWINAX 153M
- o Code Farnell 1182168
- o Link to Farnell website: http://uk.farnell.com/belden/9271-060500/cable-9271-twinax-153m/dp/1182168

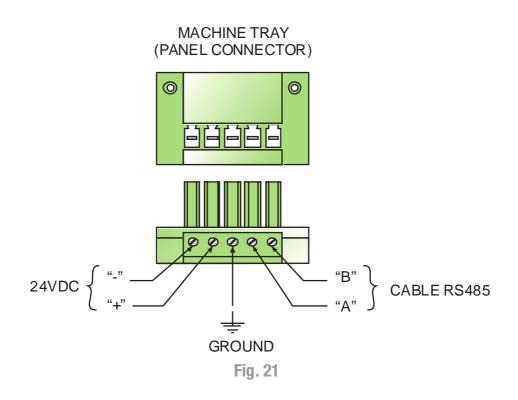
The power cable dedicated to the 3BIO VEL cards is a standard bi-polar cable with a pair having a section of at least 1 mm².

Use cables that include the GROUND cable to connect it to the laundry cash-point grounding.

To prevent any "Antenna" effect (reception of radio-frequency electromagnetic waves), connect unused cables to the cash-point grounding.

7.3.2 Connection to the RS485 line

To pilot the washing/drying machines, Laundry PRO uses 3BIO VEL peripheral devices, which require connection to the RS485. On the upper part of the machine, on the green terminal board, there is a 5-pin panel connector to pilot the 3BIO VEL boards. The Figure below shows the connections of the two previously laid cables.



The special RS485 cable is equipped with a shielding braid. This braid must be connected to the Laundry PRO's grounding by means of the central terminal of the terminal board (braid), as shown in Figure 21.

7.3.3 Wiring diagram for 3BIO VEL board

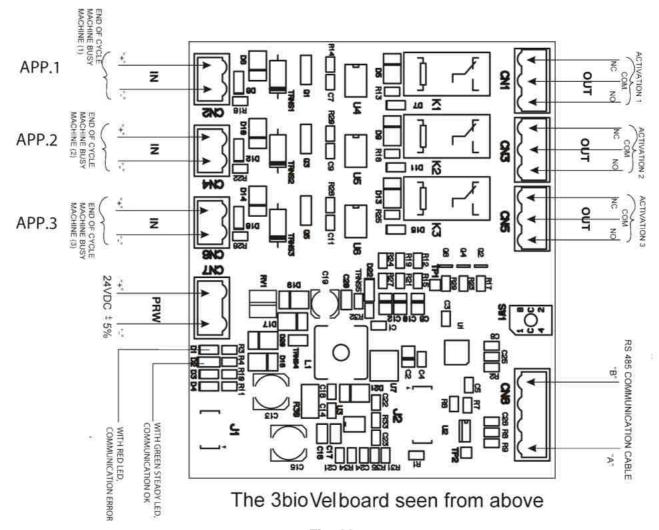


Fig. 22

7.3.4. Connecting the power line

Connect a 24VDC ±5% power supply line to power supply terminal CN7 (PWR).



Caution! Respect the indicated values and the polarity for connecting the power supply line.

7.4 Address assignment

Each 3 BIO VEL board can handle up to 3 machines. Laundry PRO recognises machines in blocks of 3.

A rotating switch is present on each board for assigning addresses.

- Connect the first three machines to the first 3 BIO VEL board, assigning the number 1 as address on the rotating switch.
- To connect three additional machines, add a second 3 BIO VEL board. Connecting the washing/drying machines to the normal terminals on the second board, assign to the latter the address number 4 via the rotating switch.
- In the case of a third board the address is 7, of a fourth 10 and so on.

Below are examples of connection of 3 BIO VEL boards. The number in bold in the table indicates the number of the address to be set on the board switch.

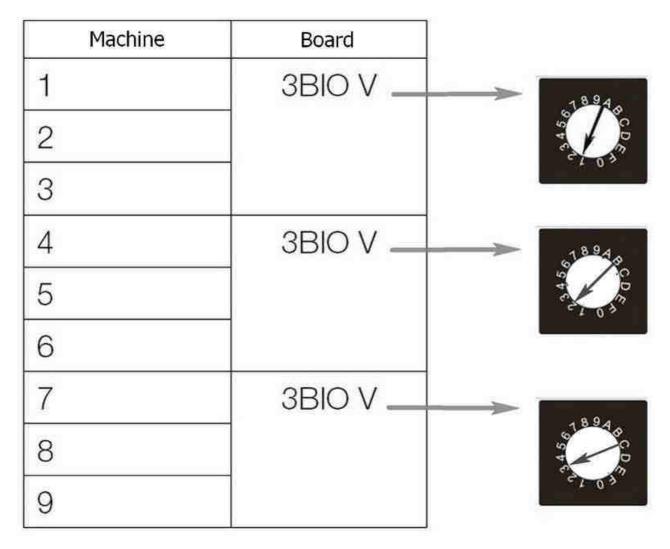


Fig. 23

N.B. The sequence of address assignment to machines must be consecutive, that is without interruptions or inversions. Otherwise malfunction may occur. A correct example of address assignment you can find in the next page.

Example of correct address assignment 3BIO VEL boards:

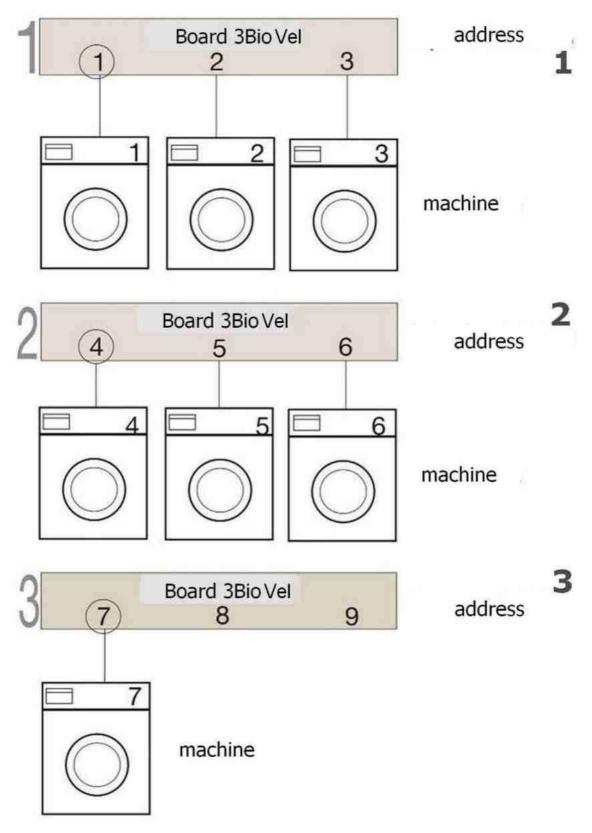


Fig. 24

N.B. If only 2 machines are connected to the 3BIO VEL, always set the address as number 1.

8. Care and maintenance



All maintenance operations carried out inside the machine must be carried out with the power supply disconnected.



We strongly recommend following these instructions carefully in order to always keep the validator in the best operating conditions and to prevent dangerous situations that would make the guarantee void.

8.1 Maintenance and external cleaning

Always keep the external surfaces of the equipment clean; to do so, we recommend using a damp cloth or a mild detergent. Do not use aggressive chemical solvents that could damage the equipment finishes.

Do not submerge in or expose the equipment to water or other liquids of whatever nature. Regularly verify the equipment surfaces with special attention to those areas that, due to normal operation conditions, could represent a hazard for the user (sharp plates, rusty areas, etc.).

8.2 Maintenance and internal cleaning

Clean the inside of the machine with a cloth damped with water, for the electrical/electronic components use only compressed air. Regularly check the cable connections making sure the peripheral device connection

cables do not have points that are not insulated and are not excessively twisted. Replace cables and connectors immediately should they present any anomaly.

8.3 Downtime

In periods when the machine will not be used for two or three days, we recommend turning the equipment off by means of the master switch. For longer downtime periods, we recommend disconnecting the equipment from the mains by disconnecting the plug from the socket. Protect the equipment from dust by covering it with a tarp and storing it in a dry and ventilated place.

9. Technical data

Dimensions (wxhxd) [mm] :	Suspended version (without flange): 596 x 662 x 402 (with POS). 596 x 662 x 337 (without POS).			
, , , , , ,	Recessed version (with flange): 740 x 760 x 418 (with POS). 740 x 760 x 353 (without POS).			
Empty Weight (Basic version) [Kg]:	Approx. 68			
Power supply [Vac]:	230			
Power consumption [W]:	350			
Working temperature [°C]:	10 ÷ 50			
Accepted coins:	Variable values to set.			
Dispensed coins:	Variable values to set.			
Accepted banknotes :	Variable values to set.			
	About 700 coins (cash box and hopper).			
Capacity:	About 300 coins (dispensing).			
_	300 banknotes.			
3BIO boards				
Power supply [Vdc] :	6 ÷ 42			
Inputs voltage:	12 ÷ 48 Vdc			
	230 Vac			
Outputs voltage [Vdc] :	max 250 V 6A			
Current consumption [mA]:	nominal max 300 (each relay 40)			
Power consumption [W]:	1,7			
RS485 cable lenght [m]:	maximum 250			
Installed peripheral devices				
Electronic coin mechanism:	RM5 HD			
Banknote reader equipped with stacker:	NV9 USB			
Cashless system:	Cashless device for card, keys, tag			
Multi-coin hopper				
Optional devices				
Card dispenser	POS reader			
Printer to issue promo receipts	Modem			
Bar code reader				

10. Annexes

10.1 Decommissioning and disposal

At the end of its life the product must be decommissioned and sent to a disposal centre.

Remove the machine from its installation place, empty all coins and remove the power cable. Contact Comestero to collect the decommissioned machine. Call the following telephone number: +39 02/95781111.

It is mandatory to dispose the machine pursuant to Legislative Decree 25/07/2005 no. 151.



Please read the following information carefully.

Since December 31, 2006, precise criteria have been established with regard to the Disposal of Waste Electronic and Electrical Equipment (WEEE), with the purpose of protecting the environment.

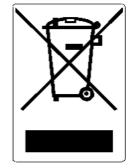
These machines fall within the scope of legislative decree 151/2005 annex 1B article 2 section 1, since they are:

7.6 Coin / token machines

10.2 Automatic dispensers of cash or products.

In brief:

- 15. These machines must not be disposed of as normal waste but rather be separately collected.
- 16. Dealers will collect used machines for free, then they will send them to specialised collection centres so that they can be correctly disassembled and any reusable material can be recycled.
- 17. Collection centres for waste electronic and electrical equipment (WEEE) have been created. Users can return used machines to their dealers when a new, equivalent machine is purchased.
 - 18. These machines or their parts are potentially harmful for the environment and human health if used incorrectly or if not disposed of pursuant to the present procedure, due to some substances being present in the electronic components.
 - 19. The symbol representing a crossed-out trash bin, well visible on these machines, means without doubts that the machine has entered the market after August 13, 2005 and that it must collected separately.



The following sanctions are established if this waste is disposed of unlawfully:

- 20. Pursuant to article 6, section 1, letter b), a dealer that does not accept the return of a used electrical or electronic equipment for free will incur a monetary sanction of Euro 150 to Euro 400 for each device that is not accepted or is accepted for a fee.
- 21. A manufacturer that does not organise a separate collection system for professional WEEE as per article 6 section 3 and a system for returning and sending, treating and recycling the WEEE, pursuant to articles 9 section 1 and 9 section 1, 11 section 1 and 12, sections 1, 2 and 3, without prejudice to the agreements signed pursuant to article 12 section 6, will incur a monetary sanction of Euro 30,000 to Euro 100,000.
- 22. A manufacturer that after August 13, 2005 does not provide the financial guarantee established by article 11 section 2 or 12 section 4 when the electrical or electronic device enters the market, will incur a monetary sanction of Euro 200 to Euro 1,000 for each device which enters the market.
- 23. A manufacturer that does not provide instructions for the use of WEE pursuant to article 13- section 1 will incur a monetary sanction of Euro 200 to Euro 5,000.
- 24. A manufacturer that, within one year from the launch on the market of any new WEE, does not provide the instructions pursuant to article 13- section 3 to re-use centres and treatment and recycling plants will incur a monetary sanction of Euro 5,000 to Euro 30,000.
- 25. A manufacturer that after August 13, 2005 launches on the market WEE without the identification or symbol set out by article 13 sections 4 and 5 will incur a monetary sanction of Euro 200 to Euro 1,000 for each device that enters the market. The same monetary sanction applies if the identification or symbol is not conforming with the requirements set out by article 13, sections 4 and 5.
- 26. A manufacturer that launches on the market a WEE without being registered with the Chamber of Commerce pursuant to article 14- section 2 will incur a monetary sanction of Euro 30,000 to Euro 100,000.
- 27. A manufacturer that does not communicate the information established by article 13, sections 4 3 5 to the national register of subjects obliged to dispose of WEEE within the terms established by article 13, section 8.
- 28. With the exceptions set out by article 5 section 2, everyone that after July 1, 2006 launches on the market WEE containing substances listed in article 5, section 1 or further substances identified pursuant to article 18, section 1, will incur a monetary sanction of Euro 50 to Euro 500 for each device that enters the market or of Euro 30,000 to Euro 100,000.



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