



ST2525/ST3535

**INSTRUCTION MANUAL FOR
INSTALLATION,
USE AND
MAINTENANCE**

REV. 02

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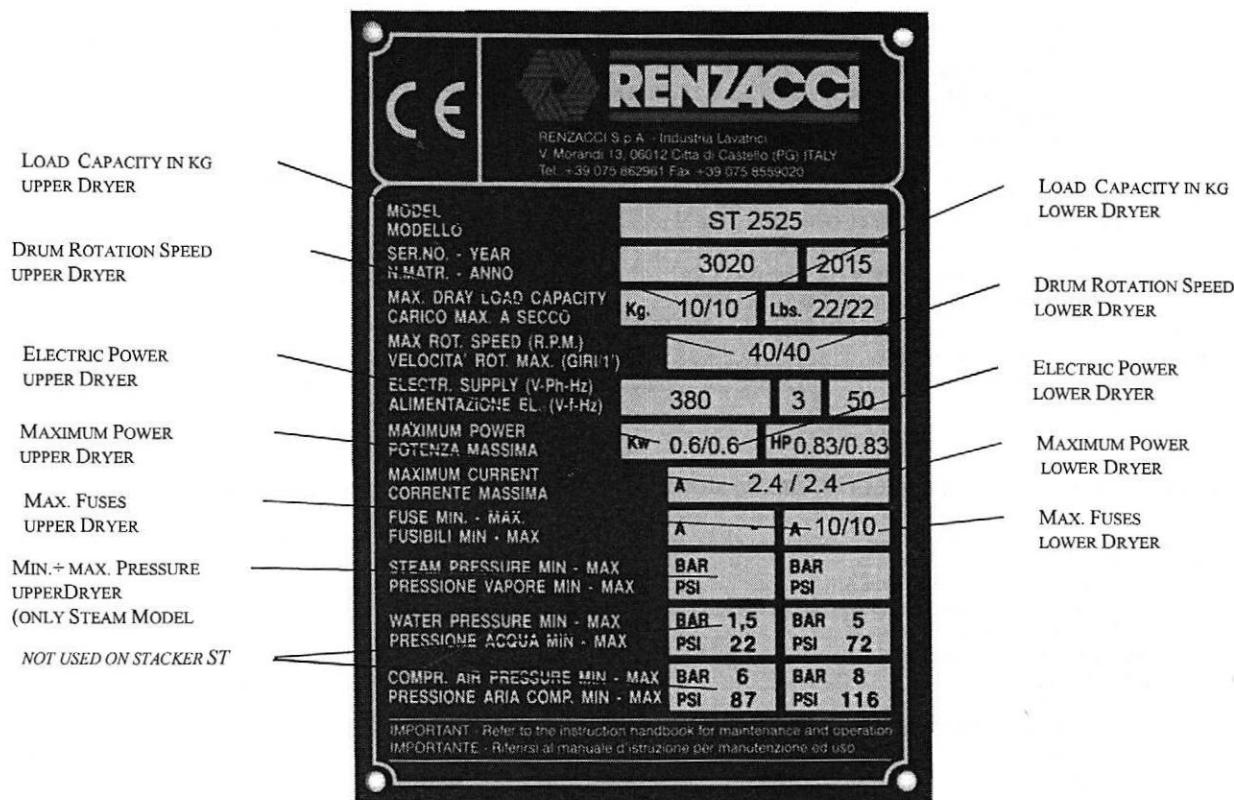
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1-DATA PLATE AND MARKING



The specifications of the machine purchased by you, including the data of the manufacturer, the model, the year of manufacture and the technical features are stated on the stamped metal data plate at the rear of the machine. The data plate is only one and is part of the machine; it cannot be removed or tampered with.

As to the data plate: in the fields with double numbers the first number refers to the lower dryer and the second number to the upper dryer. Following is an example of the data plate of an ST 2525.



MARKING. The machines for the European countries have the **CE** mark stamped on the data plate. As a matter of fact, the RENZACCI machines are built in compliance with the Machines Directive 2006/42/CE. RENZACCI S.p.A issues for its machines of the ST range a Declaration of Conformity **CE**. This document is attached to the machine. The owner is bound to carefully keep it during the whole life of the machine.

2-TECHNICAL DETAILS

► ST 2525 ◀

UPPER DRYER		
LOAD CAPACITY	kg	10
DRUM		
DIAMETER	mm	695
DEPTH	mm	570
VOLUME	l	216
DRUM SPEED		
MAX. SPEED	rpm	50
LOADING DOOR		
DIAMETER	mm	520
MOTOR POWER		
DRUM	kW	0.37
FAN	kW	0.55
HEATING POWER		
NOMINAL POWER GAS COIL (gas heated model)	Kcal/h	10000
ELECTRIC HEATING ELEMENTS (electrically heated model)	kW	11.4
ELECTRICAL DATA		
TOTAL ELECTRIC POWER INSTALLED (electrically heated model)	kW	12
TOTAL ELECTRIC POWER INSTALLED (gas or steam heated model)	kW	0.9
AIR EXHAUST		
DIAMETER	Ø	160
AIR CAPACITY	m ³ /h	750
LOWER DRYER		
LOAD CAPACITY	kg	10
DRUM		
DIAMETER	mm	695
DEPTH	mm	570
VOLUME	l	216
DRUM SPEED		
MAX. SPEED	rpm	50
LOADING DOOR		
DIAMETER	mm	520
MOTOR POWER		
DRUM	kW	0.37
FAN	kW	0.55
HEATING POWER		
NOMINAL POWER GAS COIL (gas heated model)	Kcal/h	10000
ELECTRIC HEATING ELEMENTS (electrically heated model)	kW	11.4
ELECTRICAL DATA		
TOTAL ELECTRIC POWER INSTALLED (electrically heated model)	kW	12
TOTAL ELECTRIC POWER INSTALLED (gas or steam heated model)	kW	0.9
AIR EXHAUST		
DIAMETER	Ø	160
AIR CAPACITY	m ³ /h	750
ST 2525		
TOTAL ELECTRIC POWER INSTALLED (el. upper + el. lower dryer)	kW	24
TOTAL ELECTRIC POWER INSTALLED (gas upper + gas lower dryer)	kW	1.2
TOTAL ELECTRIC POWER INSTALLED (steam upper + steam lower dryer)	kW	1.2
WEIGHT		
NET WEIGHT	kg	240
SOUND EMISSION		
SOUND EMISSION LEVEL	dB(A)	<70

► ST 3535 ◀

UPPER DRYER		
LOAD CAPACITY	kg	16
DRUM		
DIAMETER	mm	763
DEPTH	mm	734
VOLUME	l	335
DRUM SPEED		
MAX. SPEED	r.p.m.	40
LOADING DOOR		
DIAMETER	mm	520
MOTOR POWER		
DRUM	kW	0.37
FAN	kW	0.55
HEATING POWER		
NOMINAL POWER GAS COIL (gas heated model)	Kcal/h	14900
ELECTRIC HEATING ELEMENTS (electrically heated model)	kW	16.5
ELECTRICAL DATA		
TOTAL ELECTRIC POWER INSTALLED (electrically heated model)	kW	17.4
TOTAL ELECTRIC POWER INSTALLED (gas or steam heated model)	kW	0.9
AIR EXHAUST		
DIAMETER	Ø	164
AIR CAPACITY	m ³ /h	800
LOWER DRYER		
LOAD CAPACITY	kg	16
DRUM		
DIAMETER	mm	763
DEPTH	mm	734
VOLUME	l	335
DRUM SPEED		
MAX. SPEED	r.p.m.	40
LOADING DOOR		
DIAMETER	mm	520
MOTOR POWER		
DRUM	kW	0.37
FAN	kW	0.55
HEATING POWER		
NOMINAL POWER GAS COIL (gas heated model)	Kcal/h	14900
ELECTRIC HEATING ELEMENTS (electrically heated model)	kW	16.5
ELECTRICAL DATA		
TOTAL ELECTRIC POWER INSTALLED (electrically heated model)	kW	17.4
TOTAL ELECTRIC POWER INSTALLED (gas or steam heated model)	kW	0.9
AIR EXHAUST		
DIAMETER	Ø	164
AIR CAPACITY	m ³ /h	800
ST 3535		
TOTAL ELECTRIC POWER INSTALLED (el. upper + el. lower dryer)	kW	34.8
TOTAL ELECTRIC POWER INSTALLED (gas upper + gas lower dryer)	kW	1.8
TOTAL ELECTRIC POWER INSTALLED (steam upper + steam lower dryer)	kW	1.8
WEIGHT		
NET WEIGHT	kg	270
SOUND EMISSION		
SOUND EMISSION LEVEL	dB(A)	<70

3-USE OF THE INSTRUCTION MANUAL

This manual is addressed to the installer and the operator of the machine and the whole manual must be read carefully. The manual for the operation and maintenance must be kept in perfect condition nearby the machine and must always be available.

The symbols used in the manual have the following meaning:

DANGER ABSOLUTELY FORBIDDEN		Symbol used when the operator's health or life is endangered or when serious damages to property may ensue
ATTENTION WARNING CAUTION		Symbol used to indicate the need to take steps to obtain safe operation without inconveniences
ATTENTION WARNING CAUTION		Symbol used to indicate hot surfaces, burn hazard high temperatures!
SUGGESTIONS COMMENT INFORMATION		Symbol used to indicate information, to which particular attention has to be paid

The manual contains a clear description of the technical and building features of the machine aimed to installation, training of personnel, operation, adjustment, servicing, precautions for its use, identification of the risk of waste and identification and ordering of spare parts.

Please bear in mind that the manual can never replace proper operator's experience and that it is meant as a reminder of the main operations to be carried out. In any event it is always up to the operator to verify the environmental conditions ensuring correct machine operation.

Specific laws, if any, for this type of machine ruling in the country, where it is installed, must always be complied with, even if not expressly provided for in this manual.

This manual reflects the technique in the very moment the machine is purchased. The manufacturer reserves the right to subsequently modify the instruction manual without giving notice to previous customers. He also reserves the right to apply modifications to the machines without conforming the previous production and the previous instruction manual. For updates of the instruction manual and for any further information or explanation which might be necessary, you can address to the nearest distributor or after-sales-service of RENZACCI S.p.A.

RENZACCI S.p.A. considers itself released of any responsibility for breakdowns, inconveniences, direct or indirect damages, injuries coming from:

- use of the machine by not properly trained personnel;
- improper use of the machine;
- partial or full non-observance of the instructions;
- incorrect installation;
- shortage of the maintenance necessary;
- unauthorized modifications or interventions;
- non-observance of the instructions relating to the electric hook-up;
- faults in the supply by external energy sources;
- use of non-original or non-specific spare parts for this model;
- use contrary to the specific national standards;
- calamities and exceptional events.

RENZACCI S.p.A. is grateful for any improvements to the instruction manual you may suggest.

4-INTENDED USE

4.1. INTENDED USE OF THE DRYERS

The Stacker ST consists of two tumble dryers for the drying of clothes, fabrics and textiles, on whose care labels is expressly indicated that it is possible to dry the goods in dryers.



The load capacity of the dryers is stated on the data plate. Do not overload the dryer.



Hereinafter you will find important **SAFETY INFORMATION** relating to the use of the dryers. Before operating the dryers you have to follow the basic warnings below.



4.2. FIRE-PREVENTION WARNINGS

- Do not dry items that have been previously cleaned in, soaked in or spotted with petrol, cleaning solvents, kerosene, waxes, etc. Do not store these items on or near the dryers. These substances give off vapors that could ignite or explode.
- To prevent fire do not use heat to dry items containing plastic, rubber, foam rubber or rubber-like materials or items containing feathers or down.
- At least once at day cleanse the filter from the fluff accumulated. The inner parts of the dryers and the air exhaust pipes have to be cleaned approximately every month using for example a powerful vacuum cleaner.
- Do not operate the dryers, if their filter is clogged, damaged or missing. Failing to observe this precaution will increase fire hazard and cause overheating with consequent damage to the goods and possible flame development.
- Periodically clean the exhaust piping in order to avoid fluff and dirt from accumulating.
- Do not store or use petrol or other flammable liquids in the vicinity of this or any other equipment.
- Failure to observe these warnings could trigger fire, explosions, serious bodily injury and/or damage to the dryers.

4.3. GAS HEATED DRYERS: WHAT TO DO IF YOU SMELL GAS

- Do not try and switch on the light or any other device.
- Do not touch electric switches, telephone or any other device that can produce sparks.
- Immediately open doors and windows to produce a draught of air to take away the gas.
- Close the gas cock.
- Contact a qualified technician to solve the problem.

4.4. PERSONAL INJURY WARNINGS

- Do not start the dryers, if they have not been installed, or if the piping to exhaust the fumes produced during the drying turns out to be clogged or damaged.
- Do not start the dryers, if the air filter access panel is missing or not locked.
- In order to reach adequate safety the electric installation ahead of the machine must be provided with a highly sensitive differential switch and Ground-connection in accordance with the National Standards.
- To prevent shock hazard and to ensure correct and stable operation, the dryers must be installed and electrically hooked up by a qualified technician in accordance with the ruling laws on the installation of industrial equipment. If the dryers are moved to a new location, have them checked and installed again by a qualified technician.
- It is compulsory to Ground-connect the machine. In the event of malfunction or break-down the Ground-connection will reduce shock hazard, providing the electric current with a less-resistant path.
- The dryers are equipped with a cable with a yellow/green wire for the Ground-connection of the equipment. This wire must be connected to the Grounding of the electric system ahead of the machines.

BE CAREFUL! Improper connection of the Ground-wire can give rise to shock hazard.

- Do not dry in the dryers dry cleaned goods.
- Do not use sprays to clean the dryer inside, as dangerous vapors might develop.
- The opening of the loading door will stop the machines. Load and unload the machines only with the drum standing still.
- If, when opening the loading door, the drum does not stop, do not unload the dryers before turning off the electric power. Immediately call a qualified serviceman to repair the malfunction.
- All repairs and extraordinary maintenance operations must be carried out only by qualified and properly trained servicemen. Only use original or factory-authorized spare parts.

It is prohibited to modify, even partially, the Stacker ST . The manufacturer declines any responsibility in case of unauthorized modifications.



This manual contains warnings that do not cover all possible risks.

The people in charge of installation, operation and maintenance of the Stacker ST are bound to act with commonsense and care when doing their job, paying particular attention to all safety issues.



5-INSTALLATION



The installation of the machines must be carried out exclusively by qualified personnel in compliance with the standards in force for the installation of industrial machines. RENZACCI S.p.A. considers itself released of any damage caused by installation not in compliance with the instructions in this manual and/or carried out by non-qualified operators.

5.1. TRANSPORTATION

Immediately upon arrival of the machines and before uncrating them, it is recommended to notify in writing the freight forwarder of any possible damage to the crate caused during transportation. As a matter of fact, in the event that also the machines have been damaged (outside housing or internal components), the insurance of the freight forwarder will answer only, if these presumed damages have been immediately notified.

Carry the machines in their crating as close to the installation spot as possible using mechanical moving equipment, such as fork-lift trucks or trans-pallets, capable of lifting the Stacker ST (the weight of which is reported in the table of the “TECHNICAL DETAILS” in chapter 0).

5.2. UNCRATING

Uncrate the machines following the procedure below:

- take off the wooden crate or cage;
- take off the plastic cover;
- check that the machine has not been damaged during transit.

5.3. POSITIONING

- Verify that the floor is capable of supporting the loads stated in the table “TECHNICAL DETAILS” and that it is even and the floor covering not elastic.
- Place the stacker ST in the decided spot. In order to have sufficient space for the installation and the subsequent service operations it is recommended to leave a minimum distance of 800 mm from the back wall.

5.4. LEVELING

Make sure that the stacker ST is properly leveled. In order to remedy possible level differences of the floor adjust the feet of the dryer turning them to make up for the level differences of the floor.

5.5. CONNECTIONS

5.5.1. ELECTRIC HOOK-UP OF THE DRYERS



The electric hook-up of the two dryers of the stacker ST must be carried out by qualified personnel, according to the ruling standards and in compliance with the safety standards. Make sure that the voltage and the frequency of the electric supply line match those stated on the data plate of the stacker ST.

Below the instructions to connect each dryer of the stacker ST.

Ensure that the mains voltage and phase correspond exactly with the specifications shown on the data plate that is affixed to the rear panel of the machine. Any damage done to machine components due to improper voltage connections will automatically void the warranty.

To ensure safe connection to the mains supply use a 5-core cable (3-phase + Neutral +Ground Yellow/Green), of proper section (see electric diagram). Install an automatic cut-out protective device (differential magnetothermal switch).

The supply cable, properly sized to handle the related current, should be inserted in the cable holder located in the machine rear and connected to the main switch, the ground wire to the green-yellow terminal located inside the electrical panel box.

ADVICED MAGNETOTHERMIC SWITCH for each dryer		
MODEL	380V ELECTRIC	380V STEAM/GAS
ST2525	4 Poli - Tipo C I _n = 25A	4 Poli - Tipo C I _n =4A
ST3535	4 Poli - Tipo C I _n = 32A	4 Poli - Tipo C I _n =4A

ADVICED MAGNETOTHERMIC SWITCH for each dryer		
MODEL	220V ELECTRIC	220V STEAM/GAS
ST2525	4 Poli - Tipo C I _n = 40A	4 Poli - Tipo C I _n =4A
ST3535	4 Poli - Tipo C I _n = 63A	4 Poli - Tipo C I _n =6A

Connect to the magnetothermal all live conductors, including neutral with supply 380V.

Upstream of the machine install a differential magnetothermal switch of the type shown below:

RECOMMENDED DIFFERENTIAL SWITCH for each dryer	
ALL MODELS	Class B, Idn=300 mA

IMPORTANT: The electric safety of the machine can be considered accomplished only, when it is properly connected to an efficient Ground installation, carried out in accordance with the safety standards ruling in the operator's country.

The manufacturer cannot be held responsible for any consequence arising from the neglecting of safety regulations.



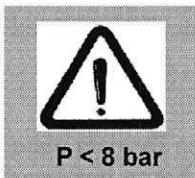
The stacker ST with electronic or electromechanical coin meter is for operation in a self-service laundry. These machines are equipped with a main switch at the machine rear. **THE OWNER/OPERATOR OF THE LAUNDRY IS BOUND TO HAVE A CENTRAL EMERGENCY STOP DEVICE INSTALLED, CONNECTED WITH EACH MACHINE, FOR EXAMPLE A MUSHROOM-TYPE EMERGENCY PUSHBUTTON DISENABLING A GENERAL CONTACTOR WHICH HAS TO BE FITTED DOWNSTREAM OF THE MAIN SWITCH OF THE ELECTRIC SUPPLY STATION SERVING THE MACHINES. THE ABOVE MUSHROOM PUSHBUTTON MUST BE FITTED IN A POSITION EASILY ACCESSIBLE TO THE FINAL CUSTOMERS AND MARKED BY A SPECIAL STICKER.**

Notabene. Once all connections have been carried out, the dryers have to be tested; in particular it is recommended that the installer supervises at least one complete drying program with a full load for each dryer.

5.5.2 STEAM CONNECTION (ONLY FOR STEAM HEATED DRYERS)

The installation of the steam heated dryers implies their connection with a steam supply system.

The installation of the steam heated dryers must be carried out by a skilled technician and must fully comply with the National or Local standards ruling.



The steam pressure must not be lower than 4 bar and higher than 8 bar. If the steam supplied to the dryers is available at a pressure higher than 8 bar, it will be necessary to fit a pressure reducer.

In any event it is recommended to check the working pressure on the data plate of the Stacker.

STEAM INLET

Install a steam inlet electrovalve.

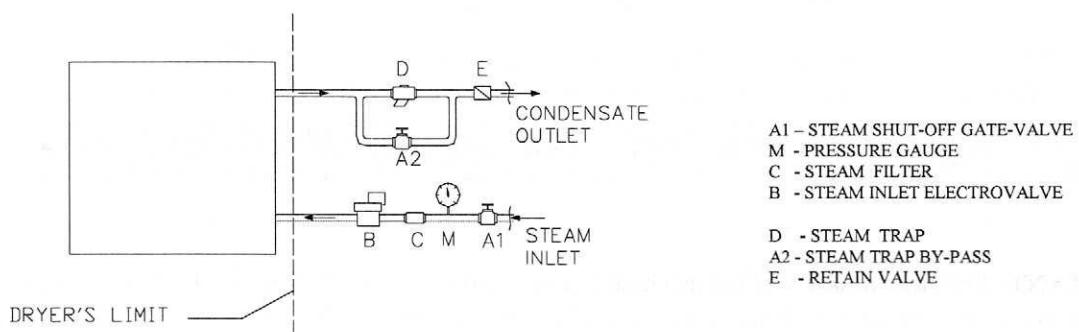
Install a filter in order to avoid possible impurities in the steam supply line from damaging the electro-valve, and a shut-off gate-valve to interrupt the steam flow in emergency situations or to carry out operational maintenance.

CONDENSATE OUTLET

Install a steam trap .

In order to prevent the condense from going back, install a retain valve, and a shut-off gate-valve to carry out maintenance jobs.

The condense return pipe must be provided with a BY-PASS (see the illustration below) in order to facilitate the circulation of the condensed steam in the first minutes of operation, at the start of the working



5.5.3 GAS CONNECTION (GAS HEATED DRYERS)



For the installation and the servicing of the gas heated dryers of the stacker ST you have to only make use of skilled and qualified installers and technicians; "do-it-yourself" is absolutely forbidden.

The installation of each gas heated dryer must be done in full compliance with the ruling national and local standards.

Each gas heated dryer of the stacker ST is equipped with a $\frac{1}{2}$ " gas inlet at the rear.

Each gas heated dryer of the Stack ST has been tested and adjusted for the type of gas (methane or LPG) specified by the purchaser when ordering the Stack. The installer of the gas heated dryers must verify that each gas dryer operates correctly with the type of gas, with which it is fed; the use of a type of gas different from the gas, for which the machines were adjusted, can give rise to bad combustion and also the build-up of carbon monoxide, which is highly toxic.

If methane (natural gas) is used, the working pressure must be between 20 and 25 mbar.

If liquid gas (LPG) is used, a pressure reducer must be fitted with an adjustable output pressure having a nominal output pressure of 30 mbar.

The installation must include a cut-off valve on the gas line feeding the burner of the dryers.



To switch on the burner it is necessary to open the cut-off valve on the supply pipe and press the key to start the dryer.

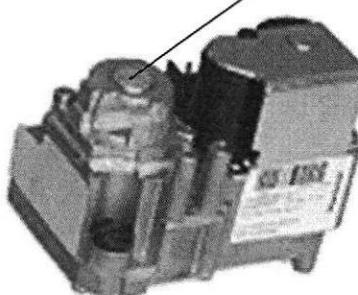
When the burner is switched on for the first time, there could be some air in the piping to the burner of the dryer and for this reason it is possible that the flame does not ignite immediately. If so, you press the RESET pushbutton of the burner central box and try to switch it on again. Repeat this procedure, until the burner works.

After carrying out the connection with the gas supply the installer must adjust the flame as follows:

- open the cut-off valve on the supply pipe;
- start the dryer by pressing the key;
- remove the cover of the screw adjusting the gas volume located on the gas electrovalve;



COVER OF THE ADJUSTING SCREW



- with a screwdriver act on the adjusting screw until a sky-blue flame is obtained.

If LPG is used, it will be necessary to adjust the pressure reducer until a sky-blue flame is obtained.

IMPORTANT. On the gas heated dryer of the Stacker ST2525 there is no cover on the upper dryer.

Hereinafter you will find all checks the installer is bound to carry out.

- 1) That the type and the features of the electric supply to the dryers are in accordance with the data plate on the Stacker.
- 2) That the functionality of the piping of the fumes exhaust is correct.
- 3) That the ventilation of the laundry complies with the regulations.
- 4) That the combustion air inlet and the fumes exhaust are done correctly in accordance with the regulations in force.
- 5) That the internal and external tightness of the fuel supply plant are correct.
- 6) That the fuel output is adjusted in accordance with the output required by the generator.
- 7) That the generator is supplied with the type of fuel for which it is preset and that the fuel supply plant is dimensioned so as to match the output necessary to the generator, and
- 8) That it is provided with all safety and control devices prescribed by the regulations in force.

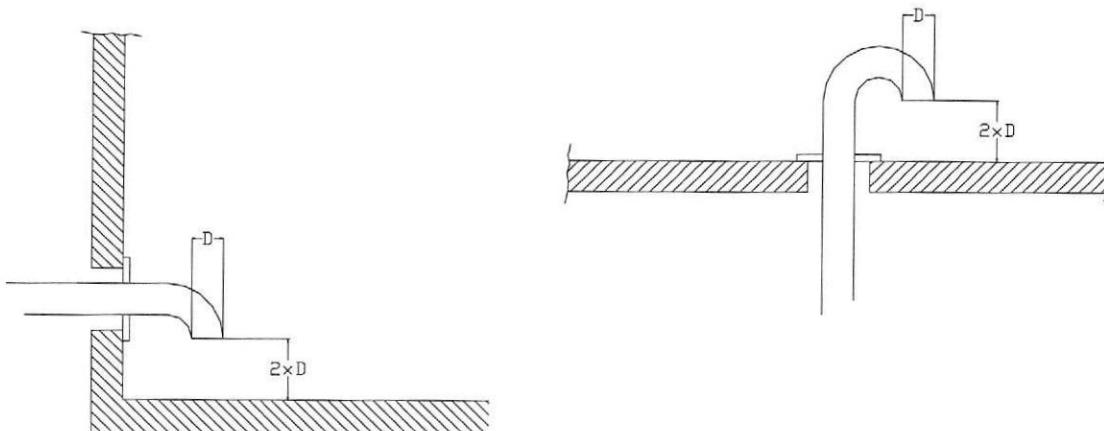
5.5.4 FUMES EXHAUST

Each dryer of the stacker ST is equipped with a hole for the exhaust of the vapors produced during the drying as well as of burnt gas, in the event the ST is gas heated.

IMPORTANT. In order to obtain correct extraction of the vapors/gas upon installation of the stacker ST and whenever servicing the fan motor, the installer or the service technician is bound to verify the correct rotation sense of the fan of the dryers: **the correct rotation sense is anti-clockwise looking at the rear of the dryers.**

Connect a pipe with each exhaust hole, which pipe has to be conveyed outside the laundry room. The exhaust pipes to be installed must have the following features:

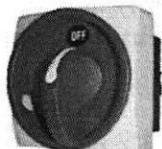
- they must be tight and made of material resistant to the combustion product and its possible condensation;
- along the whole length they must have a diameter of not less than the exhaust hole;
- they must be as short as possible and go upwards. It is best to avoid more bends and change of direction with angles less than 120°;
- moreover the pipes must never be connected to chimneys of dryers and boilers or other ventilating pipes;
- the exhaust into the atmosphere must be such as to prevent water from entering it, in case of rain. If the exhaust pipes exit the building horizontally, fit on the free end a 90° elbow bent downwards; or, if the exhaust pipes exit the building vertically, fit on the free end a 180° elbow bent downwards. In either case leave a space of at least twice the diameter of the pipe between the opening of the conduct and the nearest obstruction.



It is prohibited to start the dryers, if they are not installed correctly, or if the pipes for the exhaust of the fumes produced during the drying are clogged or damaged.

6-SAFETY DEVICES

6.1. MAIN SWITCH



The main switch is located at the rear of the machine on the cover protecting the electric board. In the event of an emergency turn the red handle on "OFF" to cut off the power to the dryer and to stop it working.

6.2. SAFETY THERMOSTAT HIGH TEMPERATURE

A safety thermostat is fitted on the heating coil of the electric or gas model of the stacker ST2525. This thermostat confines the maximum temperature of the heater, preventing it from overheating.

6.3. MICROSWITCH LOADING DOOR OPEN

The safety microswitch "loading door open" is a magnetic device that prevents the dryer to start operating, if the loading door is not closed, or blocks the operation, if the loading door is opened, while the dryer is working.

7-INSTRUCTIONS FOR THE OPERATION OF THE DRYERS

7.1. DRYERS IN THE STANDARD CONFIGURATION

1. Make sure that all supplies are open (electric power, steam or gas, whatever applicable).
2. Put the goods to be dried into the drum taking care that the same are not folded or rolled up. Do not load the dryer to exceed its capacity.
3. Close the loading door.



4. Select the program required by means of the + and - keys.



5. Press the Start/Stop key to start the program. The program will start, the state icon will lighten and the dynamic time-bar will appear. Once the cycle is over, the machine will stop and the operator can remove the dry goods.

Notabene. To stop the machine before the end of the cycle it will be sufficient to open the loading door. To start it again it will be sufficient to close the door again.

Notabene (GAS MODELS). Each time the ignition blockage control lightens, it will be necessary to reset it by pressing the reset button marked by a special sticker on the control panel.

IF DURING THE OPERATION YOU SMELL GAS

- Do not use electric switches, the telephone or any other item or device that can produce sparks.
- Immediately open doors and windows to produce a draught of air to take away the gas from the room.
- Close the gas cock.
- Call a qualified technician to solve the problem.

Notabene (STEAM MODELS). At the beginning of the working day open for a few seconds the by-pass tap of the condense exhaust so as to aid the steam circulation and to eliminate the condense built-up at night.

7.2. OPERATION OF THE DRYERS IN SELF-SERVICE CONFIGURATION

1. Put the goods to be dried into the drum.

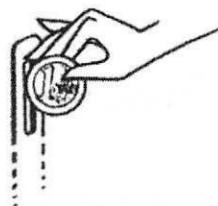
2. Select the program required by means of the  and  keys.

*PROGRAM 01: TEMPERATURE 65°C
 PROGRAM 02: TEMPERATURE 70°C
 PROGRAM 03: TEMPERATURE 75°C
 PROGRAM 04: TEMPERATURE 80°C
 PROGRAM 05: TEMPERATURE 85°C
 PROGRAM 06: TEMPERATURE 90°C*



EACH DRYING PROGRAM LASTS 37 MINUTES

3. Close the loading door.
4. Insert coins until the amount required is reached.



DRYERS CONNECTED WITH A CENTRAL CASH DESK

The program will start, when the last coin to reach the necessary credit has been inserted. The coin meter or central cash desk stops the signal for 2 seconds, after which the cycle will start.

DRYERS WITH COIN METER



When the credit has been inserted, press the  key to start the program.

At the end of the cycle, the dryer will stop automatically and the client can open the loading door in order to remove the dry goods.

If the coin meter is equipped with a EuroKey, it will be possible to also operate the dryer with the special electronic keys supplied.

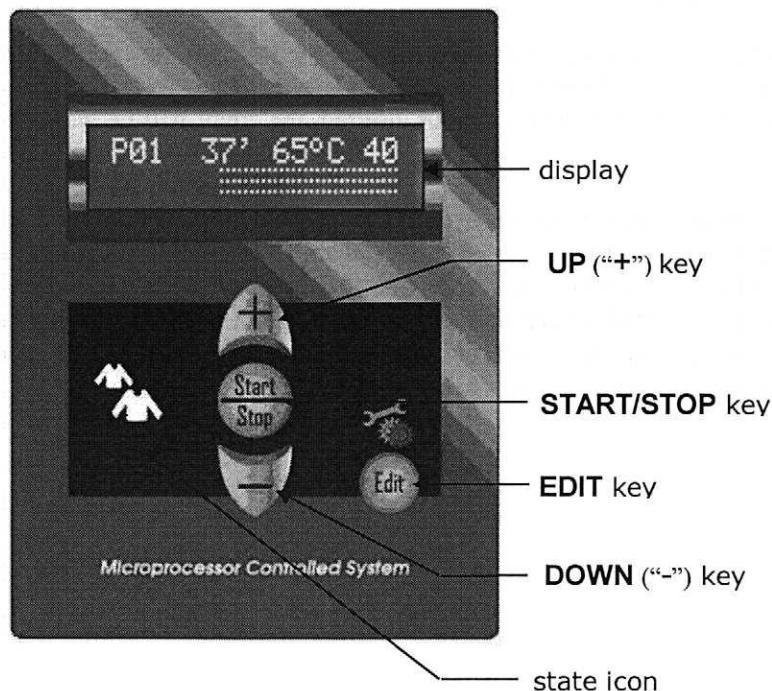
The following can be done with the key.

Visualize the credit in the key. To do so it will be sufficient to insert the key into the special EuroKey slot and the display of the dryer will show the credit contained in the key.

Load it. To do so it will be sufficient to insert the key into the special EuroKey slot (or, if the laundry shop has a loader, into the slot of the loader) and then insert the coins into the slot of the coin meter/loader. After each coin has been inserted, the credit will be increased with the value of the coin inserted.

Use the credit to run a drying cycle. Once the key has been inserted into the EuroKey slot, with a credit contained in the key equal or higher than the amount required, the dryer will be ready to run a drying cycle. After loading the goods into the drum, after closing the loading door and selecting the drying program, it will be possible to start the program by pressing the **START CYCLE** key. As soon as the dryer starts the cycle selected, the amount required will be deducted from the credit in the key and the client can remove the key from the EuroKey slot.

8-USE OF THE SOFT DRY COMPUTER



8.1. FEATURES

- LCD display, bi-chromatic, with back-light and 16 letters.
- Control through membrane keyboard with 4 dome-shaped keys.
- State icon with back-light.
- In stand-by: synthetic description of each program: total cycle time, max. temperature, drum speed, minimum humidity (optional).
- During operation: info on display of the input and current values of time, temperature, drum speed and humidity (optional).
- Graphic indication of the portion of the drying already carried out by means of a dynamic time-bar.
- Info on display of the single alarms.
- Managing of the drum rotation speed through analogical inverter piloting.
- Three cycle-end modes: standard, cool-down, linen distribution.
- Cycle counter, hour counter, statistics and fault-finding.
- Automatic operating mode with 12 programs with max. 8 steps and manual operating mode.
- Easy programming with steps with full parameters.
- Multi-language.

You can find the definition of some of the terms used below.

Page	Any screen on display.
Page time-out	<p>Some pages of the display are shown indefinitely, for example the stand-by pages. Other pages, in which typically the operator can input values, have a visualization time, within which the operator must press at least one key, if not, the page will disappear and, based on the context, the previous or the stand-by page will come back. When pressing any key, even though not active in the context of the page, the time-out is reloaded and the disappearance of the page is delayed, thus allowing the operator to interact without a hurry.</p> <p>If the page contains an editable field, this will be fixed when consulted and flashing when being modified.</p>
	 or 
	<p>If you press the  or  key, the value is modified and the time-out reloaded.</p>
Editable field	 or 
	<p>A value on display that can be modified by means of the  or  key.</p>
Roll-over	<p>Characteristic of a list of values associated with an editable field: when you scroll the values or you increase number values, when the last value or the limit value is reached, both higher and lower, it starts again from the opposite element, like a “ring”.</p>
State icon	<p>Graphic symbol on the front panel with three modes:</p> <ul style="list-style-type: none"> - off in stand-by, - illuminated during the cycle, - flashing in the event of an alarm.

8.2. ALARMS

When an alarm is activated: the dryer will interrupt the drying program, the display will visualize the alarm message associated with the present anomaly (see the table below), the state icon will flash, the cycle time will be blocked and a sound alarm will be activated, which can be silenced by pressing any key.

Anomaly	Message visualized
Inverter	INVERTER ALARM
Fan	FAN ALARM
Refrigerating compressor	REFRIGERATING COMPRESSOR MOTOR ALARM
Pressure refrigerating compressor too high	ALARM HIGH PRESSURE REFRIGERATING COMPRESSOR
Pressure refrigerating compressor too low	ALARM LOW PRESSURE REFRIGERATING COMPRESSOR
Loading door microswitches, if two of them are fitted and the signals are incoherent and steady for 2 seconds	ALARM DOOR MICROSWITCH
Temperature probe interrupted or shorted	ALARM TEMPERATURE PROBE
RH probe interrupted	ALARM HUMIDITY PROBE



As long as the alarm continues, the key is disabled.

PRESS START TO
CONTINUE



When you press the key:

- the program (or the manual cycle) will start again from the step where it was interrupted for the time remaining from the moment the alarm showed up;
- the state icon will go back to fixed;
- the alarm info will disappear and the display will go back to the page with the dynamic time-bar.



In the standard configuration, if the key is pressed again, the program will end.

If the alarm has shown up at the end of the cycle during the cool-down or linen distribution phase (if any), as soon as the cause of the alarm ceases and you press the  key, the computer will go in stand-by, as both the Cool-down and the Linen Distribution phases are cycle-end modes taking care of the linen while waiting for the operator to intervene.

In the self-service configuration, if there is an alarm in stand-by, the display will show:

OUT OF ORDER

and the dryer will be disenabled.



If you keep the  key pressed for more than 2 seconds, the display will visualize the message with the cause of the alarm, until the key is released.

So long as the cause of the alarm persists, the dryer will be disenabled (call a service-man).

8.3. BLACK-OUT

The management of a black-out is similar to the management of the other alarms. In the event of a black-out, when the power comes on again, the state icon will flash and the display will show the message:

**ALARM
BLACK-OUT**

alternating with

**PRESS START
TO CONTINUE**

and a sound alarm will be activated which can be silenced by pressing any key.



If the  key is pressed, the cycle will start again from the beginning of the interrupted step.

If the Linen Distribution or Cool-down phases were interrupted, the computer will directly go to stand-by.

If the black-out turns up during an alarm, the computer, when on again, does not advise the interrupted



alarm, but the black-out itself, which anyway is considered as an alarm. When the  key is pressed to start the cycle again, if the alarm present at the moment of the black-out has not been reset, this alarm will be visualized in the way described in the previous paragraph.

8.4. COUNTERS

The computer keeps some counters updated for managing, fault-finding and statistic purposes.

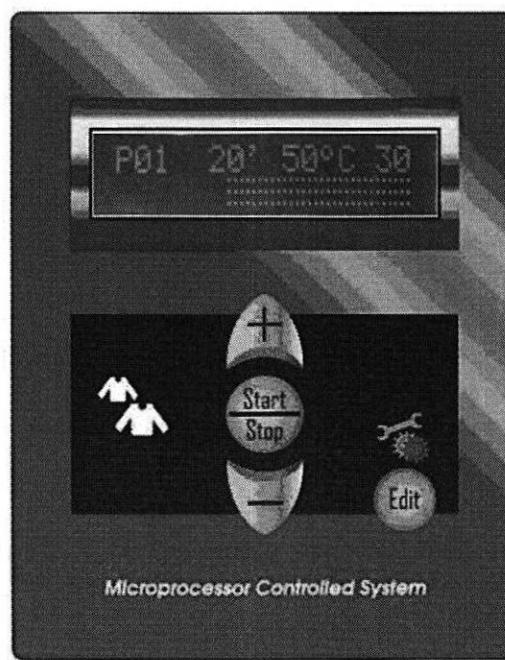
TOTAL CYCLES: increases at each automatic or manual cycle-end (the interrupted cycles are not counted). Visible and resettable in Menu INFO.

PROG STATISTICS: percentage of the use of programs: for the first six automatic programs used in the SELF configuration, the number of cycles carried out is memorized, which, related to the total number of cycles carried out, returns a value percentage of use. Visible and resettable in Menu INFO.

PARTIAL HOURS: visible and resettable in Menu INFO.

1

9-USE OF THE SOFT DRY COMPUTER IN STANDARD MODE



The SOFT DRY computer in the standard configuration makes it possible to carry out the drying programs, to edit the programs and to modify the parameters which establish the operation of the dryer(s).

The dryers, intended for professional use, are delivered with six automatic programs: P01, P02, P03, P04, P05 and P06 stored in the computer's memory and with the parameters at the factory-set default values.

The customer receiving the dryers in the standard configuration can modify the six factory-stored programs, create six more drying programs, modify setting parameters and visualize information, some of which are modifiable (resettable counters).

In the standard configuration, besides the 12 automatic programs the manual drying cycle (MAN) will be possible.

The programming of the automatic programs or the setting of the parameters of the manual drying cycle is done by gaining access to Menu EDIT. Moreover, whilst a manual drying cycle is being carried out, it will be possible to modify in real time the parameters of the cycle, always by means of Menu EDIT.

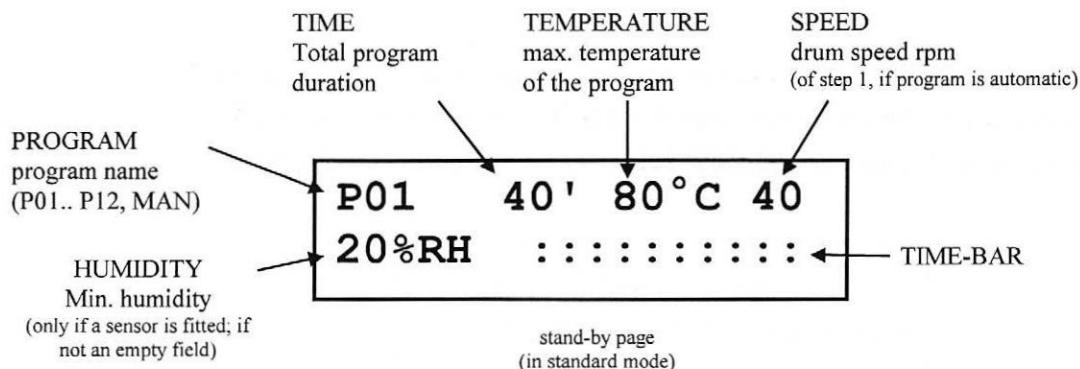


The **Start/Stop** key makes it possible to start, but also to finish a cycle, whereas in the self-service configuration it will be possible to only start the cycle.

On the display of the SOFT DRY computer, when switched on, in the stand-by page the last program carried out before it was switched off will come up again, whereas in the self-service configuration program P01 will come up again.

9.1. STAND-BY

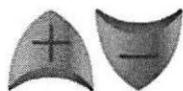
When a dryer is switched on, the computer will show a stand-by page recapitulating the information of the last drying program carried out, either automatic (P01, P02 ... P11, P12) or manual (MAN).



The fields of the page are:

1. Name of the automatic program (P01-P12) or manual (MAN).
2. Total duration of the program (sum of the steps) or manual cycle duration.
3. Maximum temperature set in the program.
4. Rotation speed of the drum in rpm. If an automatic program is selected, the rotation speed is the one programmed in the first step.
5. Minimum relative humidity set in the program. In the various steps of a program can be programmed different humidity thresholds; the humidity field shows the lowest of the values, usually associated with the final step. If there is no humidity sensor fitted, this field will be empty.

In the stand-by page all computer keys are enabled, in particular:



These keys act on the field PROGRAM scrolling the programs P01, P02 ... P11, P12 and then MAN. At each change of program the current parameters of the first step (time, temperature and so on) or of the manual cycle, if MAN is selected, are called for.



This key starts or stops the program selected.



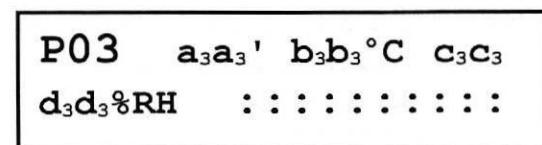
This key calls for the various menus, both for the management of the computer and to modify the parameters of the manual cycle or to edit the automatic programs (Menu EDIT)

If manual drying (MAN) is selected, the computer will proceed to carrying out the manual drying cycle, as described in paragraph 9.7 “**MANUAL OPERATION**”

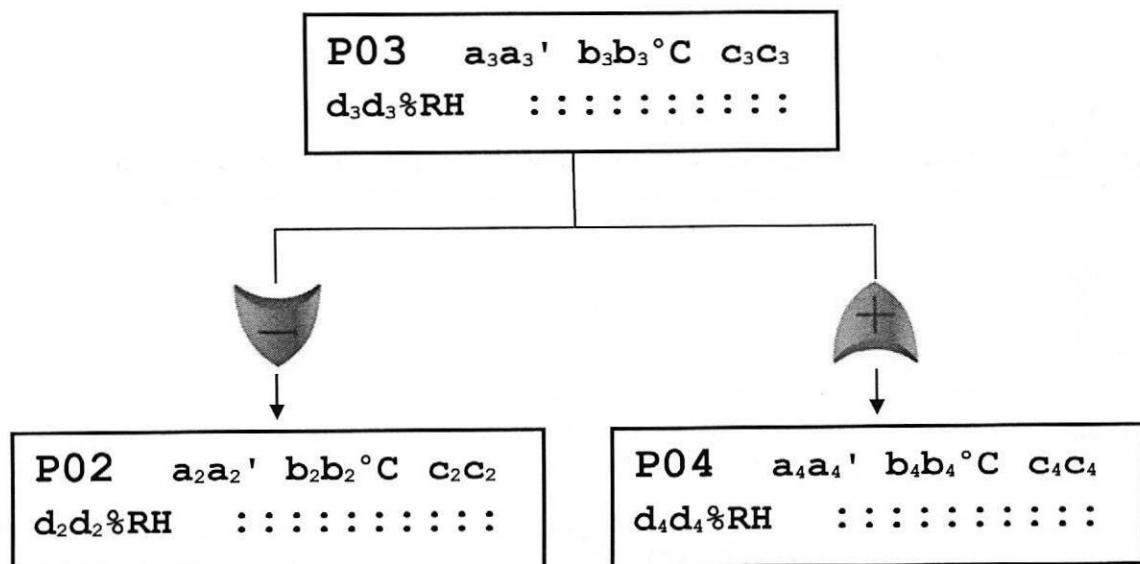
9.2. HOW TO SELECT A PROGRAM

In the standard mode can be selected 12 automatic programs (**P01, P02, P03 ... P12**) and the manual drying cycle (**MAN**).

If the dryer is in stand-by, the computer will visualize on display the last program carried out (e.g. **P03**) and the relating parameters: duration of the program (**a₃a_{3'}**), max. temperature (**b₃b₃°C**), drum speed in step 1 (**c₃c₃**), and the minimum humidity (**d₃d₃%RH**), if a humidity sensor has been fitted.



In order to select a program different from the one visualized in the stand-by page, press the or key to select respectively the subsequent program (P04) or the preceding program (P02).



9.3. HOW TO START A PROGRAM

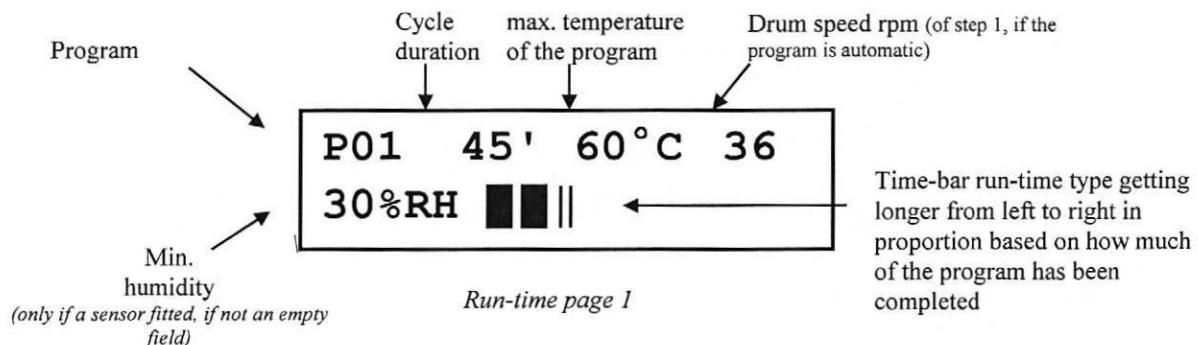


Once selected the program you wish to carry out, press the **Start/Stop** key to start the program. If the loading



door is closed, the computer will start carrying out the program and will light the state icon.

Whilst the program is being carried out, the display will show a page (run-time 1) similar to the stand-by page, but with the dynamic time-bar (progressive) which gets longer from left to right in proportion to the portion of the drying program already completed.



If the **Start/Stop** key is pressed again, the program will end immediately, the state icon will shut off and the computer returns to stand-by.

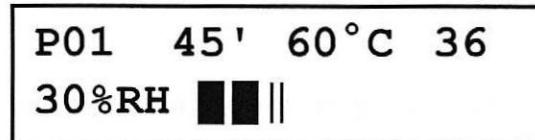
If the door is open, when the cycle is started, the flashing message "CLOSE LOADING DOOR" will appear indefinitely and the cycle will not start.

**CLOSE LOADING
DOOR**

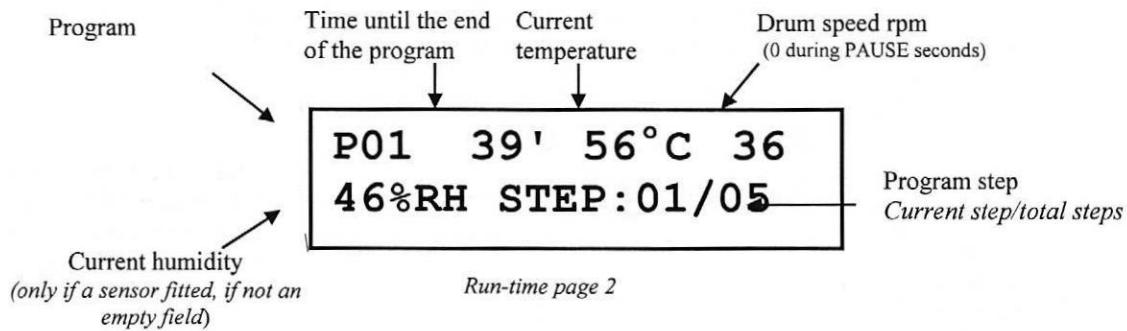
As soon as the loading door is closed, the computer will order the start of the program and will visualize run-time page 1.

9.4. HOW TO CARRY OUT A PROGRAM

After starting the drying program the computer will visualize, as written in the previous paragraph, the features of the program being carried out (name, total duration, maximum temperature, drum rotation speed, humidity) and the time-bar showing how much of the program has been completed.



Whilst the program is being carried out, but also in stand-by, when you keep the key pressed, the computer will visualize an info page quoting the instantaneous values of the parameters of the cycle, in the same position as the parameters of the stand-by page. Moreover, instead of the time-bar, info will appear on the current step and the number of the program steps.



The information visualized is:

1. Name (P01, P02 ... P12, MAN) of the running program or of the program selected, if it has not yet been started (stand-by).
2. Time remaining until the end of the program.
3. Instant temperature inside the drum.
4. Instant drum speed in rpm, which parameter is 0, when the drum is standing still.
5. Instant humidity (%), if a humidity probe is fitted; if not, this field is empty.
6. Number of the running step and the total steps of the program (steps with time zero are excluded). In stand-by the running step will be the first one (step 01).



When the key is released, the computer goes back to the page with the time-bar.

During the step the drum rotates alternatively to the right (DX) and to the left (SX), at the speed and rhythm set.

If Pause = 0 the rotation to the right continues.

If Pause = 0 and Run = 0 the drum stands still.

If a humidity sensor has been fitted and in the current step has been specified a humidity threshold, the step can finish:

- because of time-out, if the humidity value always stays higher than the threshold set;
- because the minimum threshold of relative humidity set has been reached.

If a temperature has been set, but the step is too short, the program will continue without alarms or warnings.

In the event of an alarm the writing "ALARM" will appear advising the type of alarm (see paragraphs "**ALARMS**" and "**BLACK-OUT**").

9.5. OPENING OF THE LOADING DOOR, WHILE A PROGRAM IS BEING CARRIED OUT

If during a program the door is opened:

- the program will be interrupted;
- the time will be blocked;
- all outputs will be deactivated, except the fan which will stay on 10 more seconds;
- the display will visualize the flashing message "CLOSE DOOR";



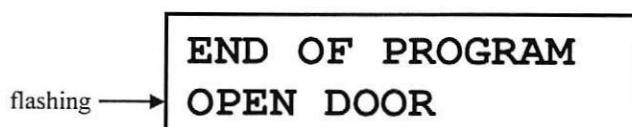
- the state icon will flash;
- the computer will indefinitely wait for the door to be closed.

When the loading door is closed, the program will take up again and the outputs will be activated again. To avoid overloads to the inverter, the drum motor will start with a delay of 2 seconds. The loading door can be opened during the cycle as often as required.

9.6. END OF AUTOMATIC PROGRAM

The automatic program will end in correspondence with the first step with time zero and after carrying out the 8th step, if all eight steps are used.

At the end of the program the computer will activate, until the opening of the loading door, the cycle-end mode set in Menu SET (STANDARD, LINEN POSITIONING or COOL-DOWN) and the display will visualize the message



which message will stay on until the door is opened.

9.7. MANUAL OPERATING MODE

Whereas the drying programs make it possible to carry out a drying cycle consisting of more steps, the manual drying cycle makes it possible to carry out the drying in one only step defined by: duration, temperature, drum speed and if a humidity sensor has been fitted, the remaining humidity.

In order to select the manual drying cycle in the standard stand-by page press the  key to scroll in sequence all programs, until the display shows the stand-by page of the manual drying cycle **MAN** and the parameters (duration, temperature, drum speed and in case the humidity) used in the last manual drying cycle carried out.

MAN	35'	60°C	36
25%RH	: : : : : : :		

Pagina di standby di MAN

In order to modify the parameters:

- press the  key: the page Menu EDIT will be visualized;

Menu EDIT

- press the  key: the editing page will be visualized, that is the page in which the parameters of the cycle can be modified.

MAN	35'	60°C	36
25%RH	30"/05"		

Example of an editing page

The structure of this page is similar to the stand-by page, but instead of the time-bar there will be the RUN/PAUSE parameters.

The time-out of this page is 20 seconds, so as to make easy programming possible.

MAN	aa'	bb°C cc
dd%RH	eee"/ffff"	

Structure of the editing page of the MAN cycle

- **aa** drying time in minutes
- **bb** drying temperature
- **cc** drum speed in RUN phase
- **dd** relative humidity
- **eee** rotation time RUN in seconds, always three numbers including 0
- **fff** standstill time PAUSE in seconds, always three numbers including 0

When an editing page is called for, it will be visualized with the parameter **aa** (time) flashing. When a

parameter is flashing, it will be possible to modify its value by pressing the  or  key to respectively increase or decrease it.

Once the flashing parameter has been brought to the value required, press the  key to select the subsequent parameter to be modified. With the  key can in turn be selected the various parameters, from **aa** to **fff**.

The parameter selected will flash.

The parameter selected can be modified by pressing the  or  key, however, within certain limits which are defined in Menu SERVICE.

Notabene. If a humidity sensor is fitted, but you do not want it to intervene in the program, then the parameter **dd** has to be set at 0.

By pressing  or awaiting the page time-out (20 seconds) any modification entered is confirmed and the computer will return to the stand-by page.

MAN	40'	75°C 35
20%RH	:::::::::::::	

stand-by page of MAN



In the stand-by page, in order to start the manual drying cycle press the **Start** key: the manual cycle is started, the state icon comes on and the various outputs are activated.

During the cycle the drum will alternatively turn to the right and to the left at the speed and rhythm (RUN/PAUSE) set.

If PAUSE = 0 the rotation to the right (DX) will continue,
if PAUSE = 0 and RUN = 0 the drum will stand still.

While the cycle is being carried out, it will be possible to edit all parameters like in stand-by and with the same procedure (time, temperature, drum speed, humidity, RUN/PAUSE).



During the cycle, by keeping the **Door** key pressed, on display will be visualized the page stating the instant values of the parameters of the cycle (time remaining until the end of the program, current temperature, current drum speed and current humidity, if any). Moreover, instead of the time-bar will appear info on the running step.

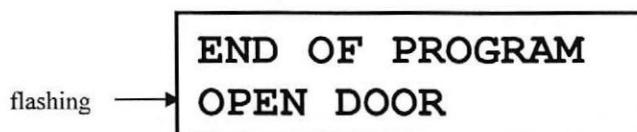
If during the manual cycle the loading door is opened, the cycle will be interrupted, the time blocked, all outputs deactivated and the display will visualize the flashing message "CLOSE DOOR", the state icon will flash and the computer will indefinitely wait for the loading door to be closed.

When the door is closed, the program will take up again and all outputs will be activated again.

The manual cycle will end:

- because of time-out;
- because the humidity threshold, if the humidity sensor is fitted and if a threshold other than zero has been set, is reached.

At the end of the cycle the cycle-end mode set in Menu SET (Standard, Linen Positioning; Cool-down) will be activated and the display will visualize the message



which message will stay visualized until the door is opened.

9.8. PROGRAMMING

In order to set up or modify a program proceed as described below.

1. Select in the stand-by page by means of the  or  key the number of the program to be set up or modified (P01... P20).

P01	60'	60°C	40
20%RH	: : : : : : : :		

For example starting from program P01 by

pressing  twice P03 is selected

P03	50'	30°C	40
30%RH	: : : : : : : :		

2. Press the  key: page Menu EDIT will be visualized.

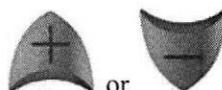
Menu EDIT

3. Press the  key: the editing page of the program will be visualized, that is the page in which the parameters of the drying program can be modified.

P03:S01	40'	55°C
36	025/005 20RH	

The editing page of the program is visualized with the step number 01 flashing. From the very moment the page is visualized, the operator has 60 seconds (time-out of the editing page of the programs), within which he has to press at least one key, otherwise the page will disappear and the stand-by page will appear again. When pressing any key, even though not active in the context of the page, the time-out is reloaded and the disappearance of the page will be delayed, thus allowing the operator to interact without having to hurry.

4. Press the  key in order to select in turn the various parameters of the program (number of the step **nn**, step time **aa**, temperature of the step **bb**, drum speed **cc**, rotation time [RUN] **ddd**, standstill time [PAUSE] **eee**, relative humidity **ff**) described below. The selected field will flash.



5. Modify the parameters by means of the or key; the computer will automatically limit the values attributed to the parameters based on the min. and max. limits of the parameters set in menu SERVICE.



6. Once the various program steps have been programmed or modified, press the key to confirm and go back to stand-by with the program set up or modified ready to be carried out.

**Pxx:Snn aa' bb°C
cc ddd/eee ff%RH**

- **XX** Number of the program. This is the number identifying the program that is being set up or modified.

- **nn** number of the current step, starting from step 01. Can be modified by means of the and

and keys from 01 up to 08. Modifying the step and confirming by means of the key, the relating parameters are called for (values already entered, or value 0).

- **aa** Step duration. Can be modified by means of the and keys from value 0 (end of program) up to 120 minutes. If the dryer is equipped with a humidity sensor, the step could end in advance, because the minimum threshold of humidity has been reached.

- **bb** Step temperature. Can be modified by means of the and keys within the limits TempMin ... TempMax.

- **cc** Drum speed in RUN. Can be modified by means of the and keys within the limits SpeedMin ... SpeedMax.

- **ddd** Rotation time (RUN). Can be modified by means of the and keys from 001 to 240 seconds.

- **eee** Standstill time (PAUSE). Can be modified by means of the and keys from 000 (continuous rotation) to 240 seconds.

- **fff** Relative humidity. Can be modified by means of the and keys within the limits MinRH% ... MaxRH%.

When the editing page of the programs is called for, it is visualized with the parameter **nn** (step number) flashing and equal to 01. By means of the and keys all program steps including the empty ones and with time zero can be scrolled. Whilst the step number **nn** is increased or decreased, at the same time the values programmed for this step are called for (useful to quickly scroll the program and analyze the sequence of the steps).



By pressing the key the step number **nn** will stop flashing, while the subsequent parameter will start flashing and you can go over to the subsequent parameter flashing **aa** (step duration) which can be modified by means of the and keys. Thus it will be possible to edit all remaining parameters of the step.

The first step with time zero is considered the end-of-program marker. Even if the parameter step duration is equal to 0, the other parameters of the step can anyway be edited, which however does not have any effect, while the program is being carried out. The same goes for the subsequent steps.



The key confirms the whole programming , with return to stand-by.

The first six programs (P01, P02, P03, P04, P05 and P06) are factory-programmed. The operator, according to this requirements, can modify the programs memorized in the factory and program the other six programs (P07, P08, P09, P10, P11 and P12).

PROGRAMS FOR DRYERS IN STANDARD MODE

PROGR. Nr. 1 - LINO \ LINEN \ LIN \ LINO

STEP	TIME (MIN.)	TEMP. (°C)	DRUM SPEED	RUN (SEC.)	PAUSE (SEC.)	HUMID. (%)
1	32	85	40	20	4	-
2	3	0	40	20	4	-
3	-	-	-	-	-	-
4	-	-	-	-	-	-
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	-	-	-	-	-	-

PROGR. Nr. 2 - MISTO LINO \ MIXED LINEN \ LINE MELANGE \ LINO MIXTO

STEP	TIME (MIN.)	TEMP. (°C)	DRUM SPEED	RUN (SEC.)	PAUSE (SEC.)	HUMID.
1	27	80	40	20	3	-
2	3	0	40	15	3	-
3	-	-	-	-	-	-
4	-	-	-	-	-	-
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	-	-	-	-	-	-

PROGR. Nr. 3 - LANA \ WOOL \ LAINE \ LANA

STEP	TIME (MIN.)	TEMP. (°C)	DRUM SPEED	RUN (SEC.)	PAUSE (SEC.)	HUMID. (%)
1	22	50	40	15	3	-
2	3	0	40	15	3	-
3	-	-	-	-	-	-
4	-	-	-	-	-	-
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	-	-	-	-	-	-

PROGR. Nr. 4 - LANA DELICATA \ DELICATE WOOL \ DELICAT LAINE \ LANA DELICADA

STEP	TIME (MIN.)	TEMP. (°C)	DRUM SPEED	RUN (SEC.)	PAUSE (SEC.)	HUMID. (%)
1	17	45	40	15	3	-
2	1	0	40	15	3	-
3	-	-	-	-	-	-
4	-	-	-	-	-	-
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	-	-	-	-	-	-

PROGR. Nr. 5 - SETA \ SILK \ SOIE \ SEDA

STEP	TIME (MIN.)	TEMP. (°C)	DRUM SPEED	RUN (SEC.)	PAUSE (SEC.)	HUMID. (%)
1	14	40	40	10	3	-
2	1	0	40	10	3	-
3	-	-	-	-	-	-
4	-	-	-	-	-	-
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	-	-	-	-	-	-

PROGR. Nr. 6 - COTONE \ COTTON \ COTON \ ALGODÓN

STEP	TIME (MIN.)	TEMP. (°C)	DRUM SPEED	RUN (SEC.)	PAUSE (SEC.)	HUMID. (%)
1	37	90	40	20	3	-
2	3	0	40	15	3	-
3	-	-	-	-	-	-
4	-	-	-	-	-	-
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	-	-	-	-	-	-

PROGRAMS FOR DRYERS IN STANDARD MODE WITH HUMIDITY SENSOR

PROGR. Nr. 1 - LINO \ LINEN \ LIN \ LINO

STEP	TIME (MIN.)	TEMP. (°C)	DRUM SPEED	RUN (SEC.)	PAUSE (SEC.)	HUMID. (%)
1	60	80	40	20	4	20
2	2	0	40	20	4	15
3	-	-	-	-	-	-
4	-	-	-	-	-	-
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	-	-	-	-	-	-

PROGR. Nr. 2 - MISTO LINO \ MIXED LINEN \ LINE MELANGE \ LINO MIXTO

STEP	TIME (MIN.)	TEMP. (°C)	DRUM SPEED	RUN (SEC.)	PAUSE (SEC.)	HUMID.
1	60	70	40	20	3	20
2	2	0	40	15	3	15
3	-	-	-	-	-	-
4	-	-	-	-	-	-
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	-	-	-	-	-	-

PROGR. Nr. 3 - LANA \ WOOL \ LAIN E\ LANA

STEP	TIME (MIN.)	TEMP. (°C)	DRUM SPEED	RUN (SEC.)	PAUSE (SEC.)	HUMID. (%)
1	30	50	40	15	3	25
2	2	0	40	15	3	20
3	-	-	-	-	-	-
4	-	-	-	-	-	-
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	-	-	-	-	-	-

PROGR. Nr. 4 - LANA DELICATA \ DELICATE WOOL \ DELICAT LAINE \ LANA DELICADA

STEP	TIME (MIN.)	TEMP. (°C)	DRUM SPEED	RUN (SEC.)	PAUSE (SEC.)	HUMID. (%)
1	30	45	40	15	3	30
2	2	0	40	15	3	20
3	-	-	-	-	-	-
4	-	-	-	-	-	-
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	-	-	-	-	-	-

PROGR. Nr. 5 - SETA \ SILK \ SOIE \ SEDA

STEP	TIME (MIN.)	TEMP. (°C)	DRUM SPEED	RUN (SEC.)	PAUSE (SEC.)	HUMID. (%)
1	30	40	40	10	3	25
2	2	0	40	10	3	20
3	-	-	-	-	-	-
4	-	-	-	-	-	-
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	-	-	-	-	-	-

PROGR. Nr. 6 - COTONE \ COTTON \ COTON \ ALGODÓN

STEP	TIME (MIN.)	TEMP. (°C)	DRUM SPEED	RUN (SEC.)	PAUSE (SEC.)	HUMID. (%)
1	60	80	40	20	3	20
2	2	0	40	15	3	15
3	-	-	-	-	-	-
4	-	-	-	-	-	-
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	-	-	-	-	-	-

9.9. MENUS SYSTEM

When the SOFT DRY computer is in the standard mode, and only in this mode, it will be possible to gain access to the various menus available, listed in the following table.

Menu	Password required	Description
EDIT	no	Makes it possible to enter into the programming to set up or to modify the automatic programs or to input the parameters of the manual cycle
SET	no	Setting of some parameters for common use (e.g. language menu, unit of measure of the temperatures, etc.)
SERVICE	yes	Min./max. limits for various parameters (e.g. drum speed, temperature, humidity); number and type of loading door microswitches
INFO	no	Various pieces of information (FW version, counters, etc)
FACTORY	yes	Setting parameters exclusively for testing; non-resettable counters
AUTOTEST	no	Manual control inlets and outlets for machine fault-finding

Starting with the dryer in stand-by, press the  key in order to select the first menu available:

Menu EDIT

Press the  or  key in order to select other menus.

Press the  key in order to gain access to the menu selected.

Direct access is gained to the menus **EDIT**, **SET**, **INFO** and **AUTOTEST**, whereas access to the menus **SERVICE** and **FACTORY** is password-protected, as those menus can be used only by the technical staff.

9.9.1. HOW TO MODIFY THE PARAMETERS

Once you have entered the general menu, it will be possible to visualize the parameters to be modified by pressing the  and  keys.

A modifiable parameter is enclosed, together with its unit of measure, in brackets: < > . A non-editable parameter is without brackets.

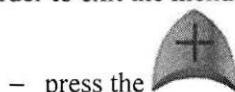


Once the parameter to be modified is visualized, press the  key: the parameter will start flashing.



Set the value required by pressing the  and  keys and confirm by pressing the  key: the parameter will stop flashing.

In order to exit the menu:



– press the  and  keys until the page “SAVE AND EXIT” is visualized;

SAVE AND EXIT



– press the  key or keep the  key pressed for some seconds. In either case the parameters are saved and the computer goes back to stand-by.

Notabene. If the menu is left open and no key is pressed, when the time-out (20 seconds) is over, the computer goes back to stand-by and the modified parameters will not be saved.

9.9.2. MENU EDIT

EDIT is the menu that makes it possible to edit (set up or modify) the automatic programs or the manual cycle.

You can find the instructions to edit the the automatic programs in paragraph “**PROGRAMMING**” (see page 30).

You can find the instructions to input the parameters of the manual cycle in paragraph **9.7 “MANUAL OPERATING MODE”**.

9.9.3. MENU SET

In menu SET are defined the common-use parameters described in the table below.

Parameter	Values allowed	Default value	Description
CYCLE END	STD LINEN DISTRIBUTION COOL-DOWN	STD	Cycle-end mode of all programs
TEMP UNIT	CENTIGRADE FAHRENHEIT	CENTIGRADE	Unit of measure of the temperatures visualized on display
LANGUAGE MENU	ITA, ENG, FRA, DEU, ESP	ITA	Menu of the languages
COOL-DOWN TEMPERATURE	0...100°C	00°C	Cool-down temperature when opening a door. This function is not used on dryers of the ranges R and RZ Plus 00°C= function disenabled
SOUND ALARMS	OFF, ON1, ON2	ON1	Setting of the sound alarms: OFF : buzzer and siren off, except in alarm situations ON1 : buzzer only in any situation ON2 : buzzer in any case and siren only in alarm situations ON3 : siren cycle-end and alarms
SOUND DURATION	0...250 seconds	5	Duration of the cycle-end sound. If the siren is enabled, it is activated together with the buzzer

With the dryer in stand-by, in order to gain access to menu **SET**:

- press the  key: the display shows

Menu EDIT

- press the  key: the display shows

Menu SET

- press the  key: the display shows

FINE CICLO
<STD>

If you proceed as described in the sub-paragraph “**How to modify the parameters**” (see 9.9.1) it will be possible to modify all parameters of menu SET and then exit the menu.

The parameter **CYCLE END** defines the behaviour of the dryer at the end of the program.

- **Standard:** the computer switches off all outputs and indefinitely waits for the door to be opened.
- **Cool-down** (or *permanent press*): only the heating is switched off, whereas rotation (with the current RUN/PAUSE) and ventilation go on until the loading door is opened or when the  key is pressed.
- **Linen distribution:** like Cool-down, but without ventilation.

9.9.4. MENU SERVICE

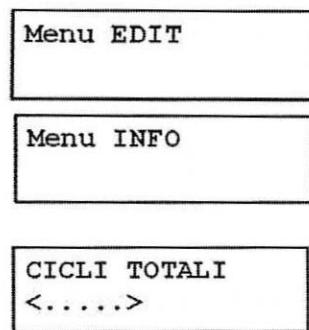
In menu SERVICE are specified the minimum and maximum limits for the main parameters the operator uses in the drying-cycle-programming phase (speed, temperature, humidity), the parameters relating to the number and type of loading door microswitches and many other parameters defining the operation of the dryer in the SELF-SERVICE mode.

Access to menu SERVICE is password-protected, as this menu can be used only by the technical staff.

9.9.5. MENU INFO

With the dryer in stand-by in order to gain access to menu **INFO**:

- press the  key: the display shows
- press the  key more than once until
is shown
- press the  key: the display shows



The menu reports information rather than sheer parameters. Some pieces of information are not editable (e.g. VERS FIRMW), whereas other parameters can be reset (counters).

The table below shows the list of parameters/information of menu INFO.

Parameter	Values allowed	Default value	Description
TOTAL CYCLES	0...65535 (2)	0	Total automatic and manual cycles carried out
STATISTICS PROG P01	0..100%	0	Percentage of use of program P01 in Self- Service mode (1)
STATISTICS PROG P02	0..100%	0	Percentage of use of program P02 in Self- Service mode
STATISTICS PROG P03	0..100%	0	Percentage of use of program P03 in Self- Service mode
STATISTICS PROG P04	0..100%	0	Percentage of use of program P04 in Self- Service mode (1)
STATISTICS PROG P05	0..100%	0	Percentage of use of program P05 in Self- Service mode
STATISTICS PROG P06	0..100%	0	Percentage of use of program P06 in Self- Service mode
PARTIAL HOURS	0...65535 (2)	0	Partial hour counters
TOTAL INCREASES	0...65535 (2)	0	Number of extensions of the cycle time in SELF-SERVICE mode
SEED PASSWORD	000-000...999.999	000-000	Password for the technical service in order to obtain the passwords to reload and unlock
COOL-DOWN TEMP			
VERS FIRMW	0.0 ... 99.99	-	Firmware version of the computer in Major.Mino format
CHK FIRMW	0000...FFFF (hexadecimal value)	-	Checksum of the firmware of the computer in hexadecimals, excluding the areas of the data memory
RESETTING COUNTERS	-	-	By pressing START the following counters are reset: TOTAL CYCLES; PARTIAL HOURS; TOTAL INCREASES; STATISTICS PROG P01 ... STATISTICS PROG P06.

- 1) The percentage for each program P01 ... P06 is calculated based on the ratio between the number of times the START key has been pressed for that program and the total of the partial cycles. If the total is reset, the values are 0. If the dryer is used in the STANDARD configuration, also the programs P07 ... P12 and MAN are counted; therefore, the percentage always refers to the total of the cycles carried out. In order to get valid statistics, reset the counters before use in the SELF-SERVICE configuration.
- 2) The counters **TOTAL CYCLES**, **PARTIAL HOURS** and **TOTAL INCREASES**, when they reach the maximum value of the counts, will start again from 0.

9.9.6. MENU AUTOTEST

In order to facilitate the tests and fault-finding of the dryer, menu AUTOTEST is supplied, accessible without password.



The pages of menu AUTOTEST are scrolled with the and keys and the outputs are switched



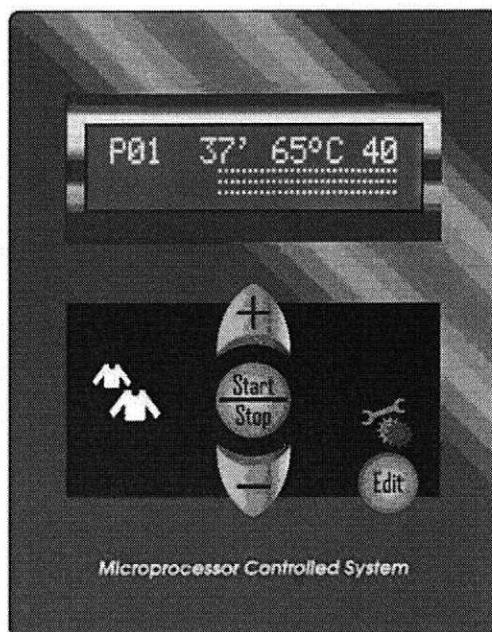
over on/off with the key.

The AUTOTEST pages have a time-out of 1 min. which is reloaded by pressing a key.

Step nr.	Description	Layout of the display
1	Initial screen; confirm with START in order to go to step nr. 2	Menu AUTOTEST
2	Test of the analogical inputs: – instant temperature – instant humidity	AUTOTEST: 25°C 50%RH
3	Test of the digital inputs: state of all inputs from IN1 to IN8 is reported. If an input is active, the relating number will appear in the string at the right-hand side of "IN"	AUTOTEST: IN: 12345678
4	Test of the heating remote control switch; the START key changes over ON/OFF	AUTOTEST: HEATING: OFF
5	Test of the ventilation remote control switch; the START key changes over ON/OFF	AUTOTEST: VENTILATION: OFF
6	Test of the cool-down remote control switch; the START key changes over ON/OFF	AUTOTEST: DOOR COOL-DOWN: OFF
6	Test of the door lock remote control switch; the START key changes over ON/OFF	AUTOTEST: DOOR LOCK: OFF
6	Test of the piezo siren the START key changes over ON/OFF	AUTOTEST: SIREN <OFF>
7	Test of the inverter phase1: setting of the speed reference. Enter into editing by means of START and input by means of UP and DOWN, confirm with START. The speed range is SpeedMin ... SpeedMax	AUTOTEST: RPM <35>
8	Test of the inverter phase2: Setting of the speed reference and motor test. Enter into editing by means of START and input by means of UP and DOWN: the field will flash. The initial value is OFF. If you press UP, it switches over to DX (the right). If you	AUTOTEST: ROT <OFF>

	<p>press DOWN, you go back to OFF and when you press again, it switches over to SX (the left). By pressing UP you go back to OFF, like in the schematic below.</p> <p>Tasto UP</p> <p>Tasto DOWN</p> <p>Press START again to finish the test.</p>	
9	Exit from Autotest. Confirm with START.	AUTOTEST: EXIT

10-USE OF THE SOFT DRY COMPUTER IN SELF-SERVICE MODE



The SOFT DRY computer in SELF-SERVICE configuration has the  key disabled, so as to prevent access to the menus and to actually prevent the customer of the self-service laundry from modifying and tampering with the programs.

In the self-service configuration are available only the first 6 automatic programs (P01, P02, P03, P04, P05, P06) out of the total 12 which can be memorized in the computer and moreover the manual mode is not available.

In the self-service configuration the use of the humidity sensor is not provided; therefore, if it is fitted, it will be able to operate only, when the computer is in the standard configuration.

In the self-service configuration the computer, when switched on, unlike the behavior in the standard configuration, does not come up again with the last program carried out, but will always load program P01.

In the self-service configuration the computer can interface with various payment systems:

1. Central cash desk.
2. Electronic coin meter fitted on board the machine with EuroKey.
3. Electronic coin meter fitted on board the machine without EuroKey.

The computer operation differs based on the payment system fitted.

PROGRAMS FOR DRYERS IN SELF-SERVICE MODE

PROGR. Nr. 1 - 65°C

STEP	TIME (MIN.)	TEMP. (°C)	DRUM SPEED	RUN (SEC.)	PAUSE (SEC.)
1	37	65	40	18	4
2	-	-	-	-	-
3	-	-	-	-	-
4	-	-	-	-	-
6	-	-	-	-	-
7	-	-	-	-	-
8	-	-	-	-	-

PROGR. Nr. 2 - 70°C

STEP	TIME (MIN.)	TEMP. (°C)	DRUM SPEED	RUN (SEC.)	PAUSE (SEC.)
1	37	70	40	18	4
2	-	-	-	-	-
3	-	-	-	-	-
4	-	-	-	-	-
6	-	-	-	-	-
7	-	-	-	-	-
8	-	-	-	-	-

PROGR. Nr. 3 - 75°C

STEP	TIME (MIN.)	TEMP. (°C)	DRUM SPEED	RUN (SEC.)	PAUSE (SEC.)
1	37	75	40	18	4
2	-	-	-	-	-
3	-	-	-	-	-
4	-	-	-	-	-
6	-	-	-	-	-
7	-	-	-	-	-
8	-	-	-	-	-

PROGR. Nr. 4 - 80°C

STEP	TIME (MIN.)	TEMP. (°C)	DRUM SPEED	RUN (SEC.)	PAUSE (SEC.)
1	37	80	40	18	4
2	-	-	-	-	-
3	-	-	-	-	-
4	-	-	-	-	-
6	-	-	-	-	-
7	-	-	-	-	-
8	-	-	-	-	-

PROGR. Nr. 5 - 85°C

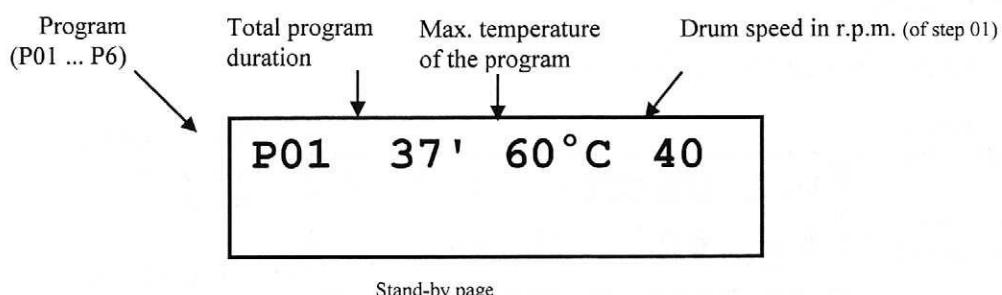
STEP	TIME (MIN.)	TEMP. (°C)	DRUM SPEED	RUN (SEC.)	PAUSE (SEC.)
1	37	85	40	18	4
2	-	-	-	-	-
3	-	-	-	-	-
4	-	-	-	-	-
6	-	-	-	-	-
7	-	-	-	-	-
8	-	-	-	-	-

PROGR. Nr.6 - 90°C

STEP	TIME (MIN.)	TEMP. (°C)	DRUM SPEED	RUN (SEC.)	PAUSE (SEC.)
1	37	90	40	18	4
2	-	-	-	-	-
3	-	-	-	-	-
4	-	-	-	-	-
6	-	-	-	-	-
7	-	-	-	-	-
8	-	-	-	-	-

10.1. DRYERS CONNECTED WITH CENTRAL CASH DESK

When the computer is switched on in the self-service configuration, the stand-by page will appear with program P01 selected.



Only the and keys are enabled, therefore the customer can only select a program between P01 and P06.

The display reports the parameters of the program selected on the first line.

The program starts, when the last coin to reach the necessary credit has been inserted. The coin meter or central cash desk turns off the signal contact for 2 seconds and then the cycle will start.



If the key is kept pressed, the display will visualize the page stating the instant values of the drying program being carried out, like in the standard configuration. The only difference is that the info page with the instant values cannot be called for in stand-by and, moreover, no information about humidity will be visualized, even with the sensor installed.

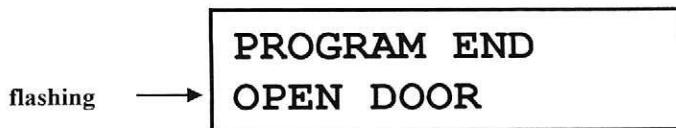
If the loading door is open, the flashing message “CLOSE LOADING DOOR” will appear: the computer will wait with the exits deactivated for a maximum of 1 min., once this time is over, the computer will go back to stand-by without any signal.



In the self-service mode it is not possible to interrupt a program running by pressing the key. Once

it is running, the program can be interrupted only by keeping the key pressed for 10 seconds: the computer will go back to stand-by without reporting it.

At the end of the program the computer will activate, until the loading door is opened, the cycle-end mode set in the parameter **CYCLE END** of Menu SET (Standard, Cool-down, Linen Distribution) and the display will visualize the message

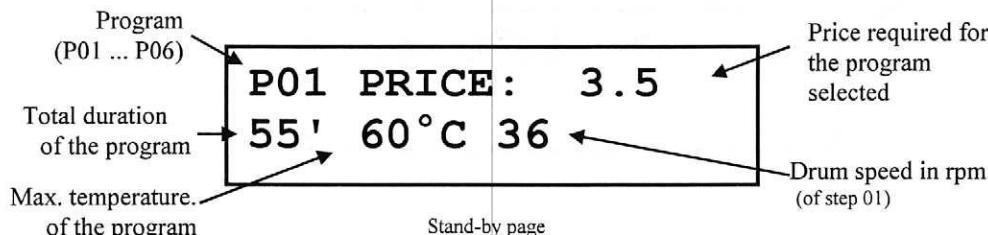


which message will stay visualized until the loading door is opened.

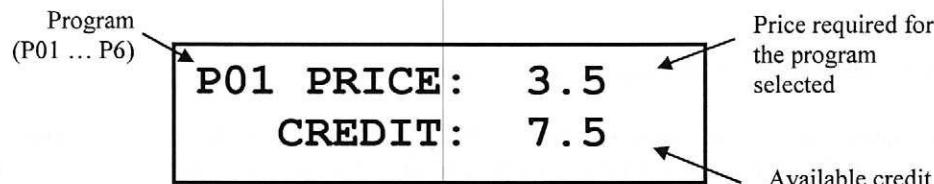
10.2. DRYERS WITH ELECTRONIC COIN METER ON BOARD THE MACHINE

When the computer is switched on in the self-service configuration, the stand-by page will appear with program P01 selected.

If there is no credit, the stand-by page is as follows.



When coins have been inserted, the stand-by page is as follows.



When the customer presses the and keys, he can select only one of the available programs P01.... P06.

On the first line the display reports the program selected and the price required.

On the second line the following info is reported:

- if the credit is zero, the parameters of the program are visualized (time, temperature and speed);
- if some coins are inserted, "CREDIT xx.xx" will be visualized, useful on dryers with EuroKey to reload the key, because it makes it possible to check the amount reloaded;
- if another program is selected, the parameters of the program are reported for 2 seconds, then, if there is credit, "CREDIT xx.xx" is displayed again.

The customer selects the program by means of the and keys, inserting the coins necessary and then presses the key.

If the credit is not sufficient, the second line will show the missing credit for 3 seconds, then again the present credit; the cycle will not start.

If the credit is sufficient:

- the credit will be deducted immediately;
- the second line will show the updated credit for 2 seconds;
- the program will start, the state icon will come on and the available drying time will start decreasing.



If the key is kept pressed, the display will visualize the page reporting the instant values of the parameters of the drying program running, like in standard configuration. The only difference is that the info page with the instant values cannot be called for in stand-by and, moreover, no information on humidity is visualized, even with the sensor fitted.

If the loading door is open, the flashing message "CLOSE DOOR" will appear: the computer will wait with the outputs deactivated for max. 1 minute, after which the computer will go back to stand-by without reporting it.



In the Self-Service mode it is not possible to interrupt the program running by pressing the key.



Once it is running, the program can be interrupted only by keeping the key pressed for 10 seconds: the computer will go back to stand-by without reporting it.

At the end of the program the computer will activate the cycle-end mode set in the parameter **CYCLE END** of Menu SET (Standard, Cool-down, Linen Distribution), until the loading door is opened and the display will visualize the message

flashing →

**PROGRAM END
OPEN DOOR**

which message will stay visualized until the loading door is opened.

As an option the customer has the possibility to extend the drying by inserting a pre-fixed credit, e.g. 1€, and



by pressing the key: the time of the running step will be extended with a value in minutes, defined in the parameter ExtraTime in menu SERVICE, which value is common for all programs.



For this function the key is enabled only after 10 seconds from the start of the cycle and after 10 seconds from the re-start after a possible black-out.

More extensions are possible, the limit of which is defined by the remaining time of the step, which cannot be extended more than 200 minutes.



Each time the key is pressed, the computer will verify first of all that the remaining time of the running step added to the ExtraTime parameter does not exceed 200 minutes; then it will check the credit available.

- If there is enough credit, the extension will be allowed and for 3 seconds the string of the updated credit will be shown; the remaining time of the step will be increased with the ExtraTime value and the time-bar will be adjusted to match the cycle extension.
- If the credit is not enough, for 3 seconds the lacking credit will be visualized.

Besides the possibility to extend the drying while the program is running, the customer also has the possibility, within one minute from the end of the program, to re-start the drying for a time equal to the ExtraTime by simply inserting the credit required for the extension and pressing, within 1 minute from the



end of the program, the key.

11-MAINTENANCE



In order to keep the dryers of the stacker ST functional and efficient with the passing of time, it will be necessary to have ordinary maintenance carried out regularly, as described in this paragraph, and only by skilled and qualified servicemen.



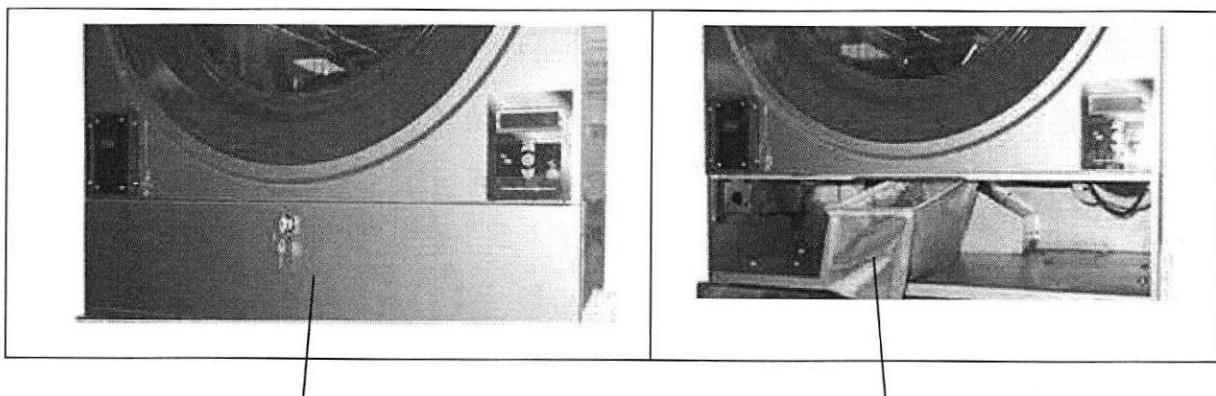
In order to carry out the maintenance operations on the dryers, you have to cut off the power to the machines by putting the main switch on "O" and switch off the other supply sources of the machine.

1) FILTER CLEANING

At least once a day the primary and secondary filters have to be cleaned.

Proceed as follows:

- cut off the power to the machine by putting the ON/OFF switch of the dryer on "O" (OFF) blocking it by means of a padlock;
- open the access panel to the filter of the dryer with the key;
- pull the filter from its seat;
- accurately clean the filter removing all fluff gathered in it;
- put the filter back in its seat;
- put the access panel back and lock it with the key.



ACCESS PANEL TO FILTER

FILTER



After cleaning the filter, when it is placed back making it slide in the special filter guide, be careful not to accidentally touch the probe which has to stay on top of the filter.



It is prohibited to operate the dryers, if the protection panel of the filter has not been correctly closed and locked with the key.

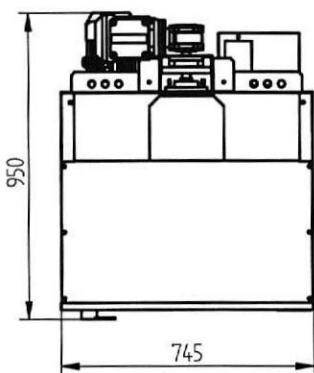
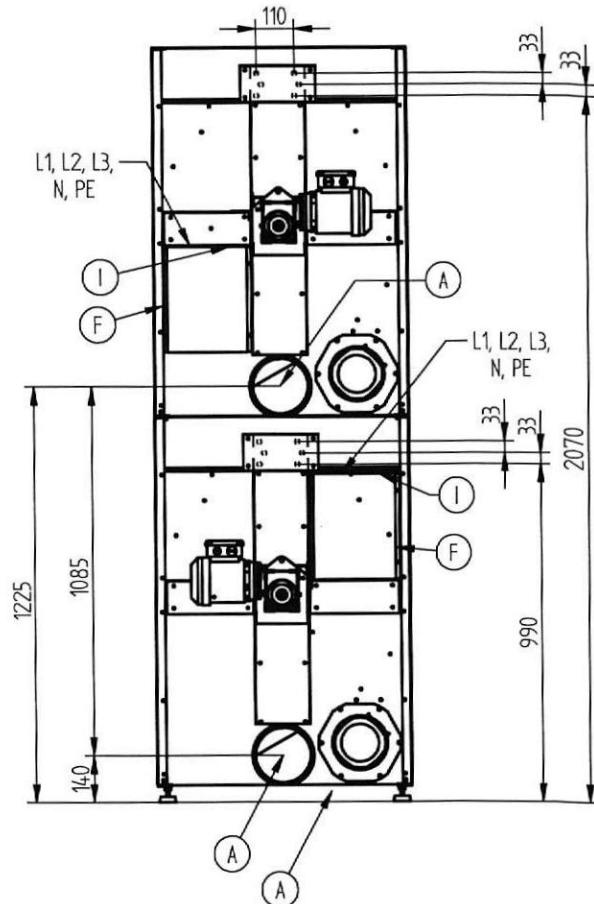
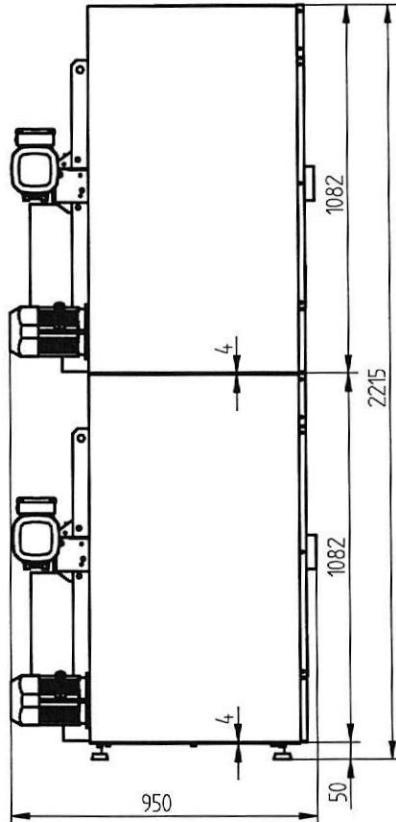
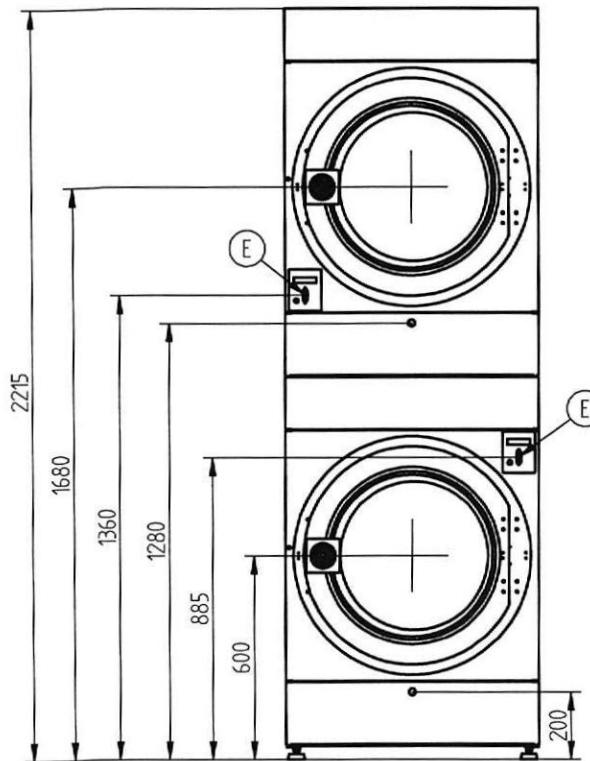
12-NOTES RELATING TO THE ENCLOSURES

List of Standard Programs

PROGRAM No. 1	LINEN
PROGRAM No. 2	MIXED LINEN
PROGRAM No. 3	WOOL
PROGRAM No. 4	DELICATE WOOL
PROGRAM No. 5	SILK
PROGRAM No. 6	COTTON

List of Self-Service Programs

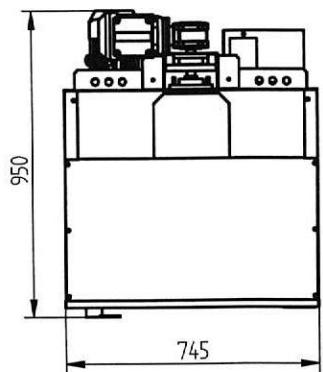
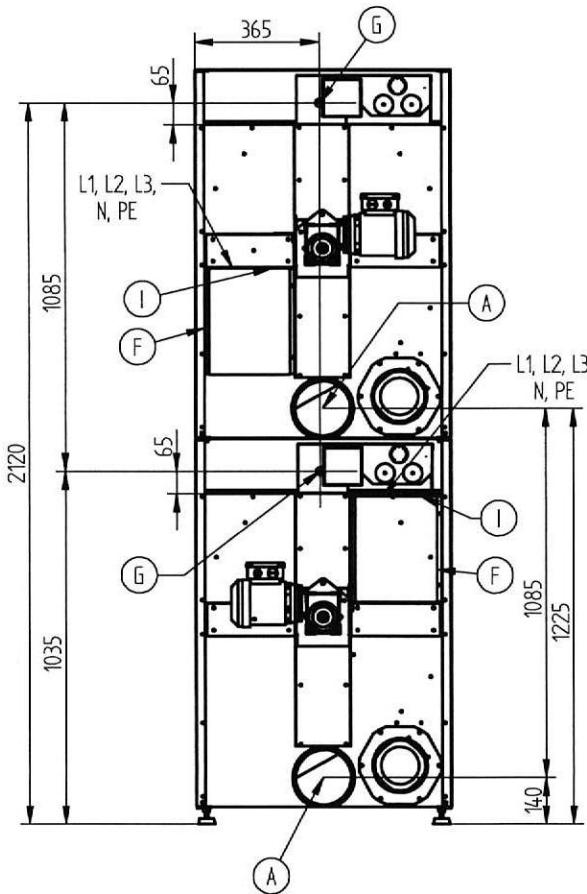
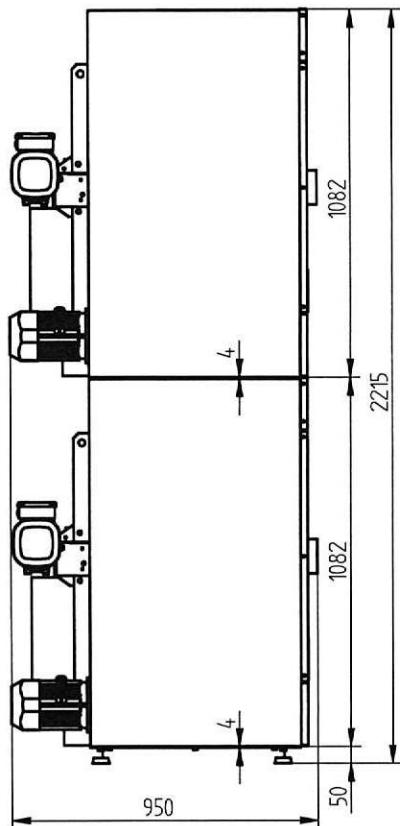
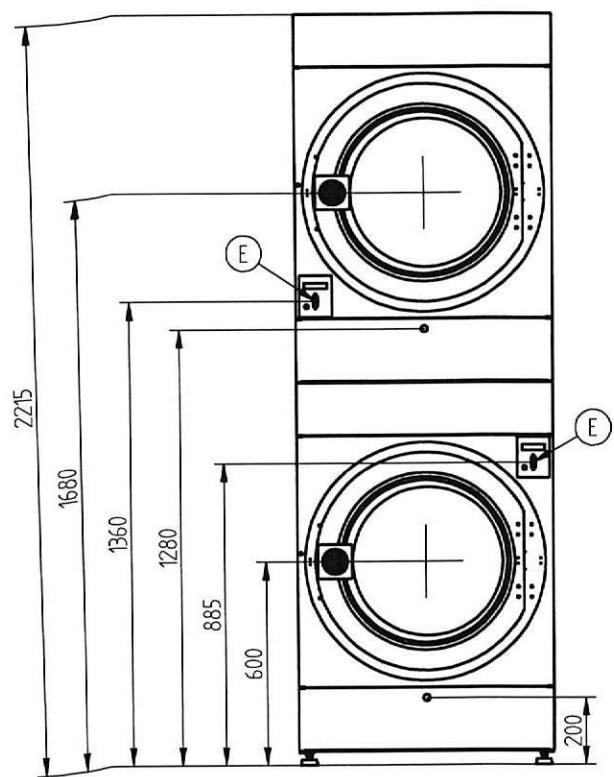
PROGRAM No. 1	DRYING AT 65°C
PROGRAM No. 2	DRYING AT 70°C
PROGRAM No. 3	DRYING AT 75°C
PROGRAM No. 4	DRYING AT 80°C
PROGRAM No. 5	DRYING AT 85°C
PROGRAM No. 6	DRYING AT 90°C



LEGENDA KEY		
A	Scarico Aria/fumi Air/Fumes Exhaust	Ø 164 mm
E	Computer	-
F	Coperchio Inverter Inverter Cover	-
I	Sezionatore Switch	-

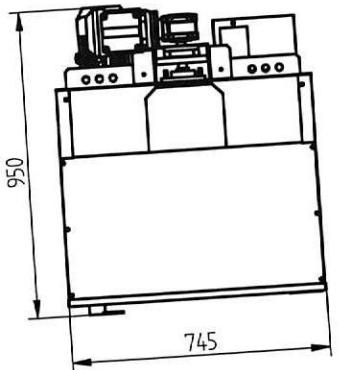
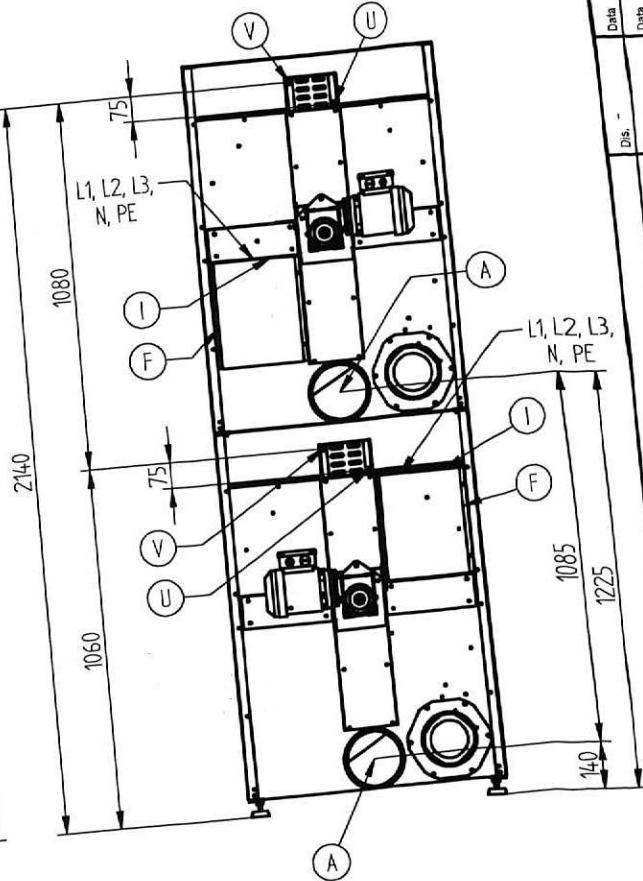
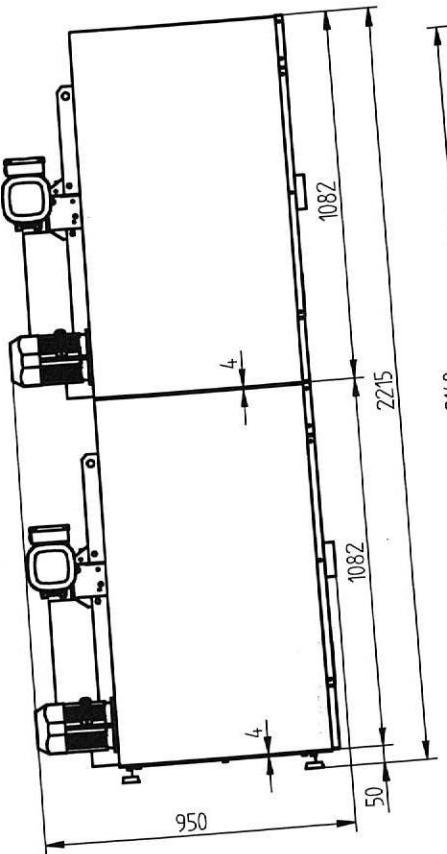
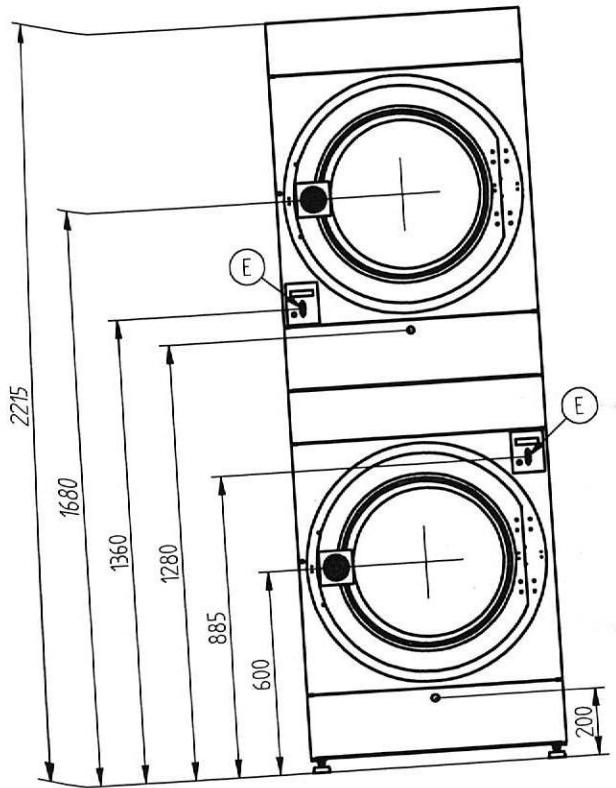
DIMENSIONI - DIMENSIONS	VARIO	DIS.	
DENOMINAZIONE PARTICOLARE	QUANTITA'	MATERIALE	NOTE
TITOLO ST 25-25 RISCALDAMENTO ELETTRICO - ELECTRIC HEATING			
Scala 1:15	Data 09/04/2015	MS	Visto -
	REV.N.1	Foglio 1 di 3	DIS.N.
PROJ	DEL 21/04/2017	A3	1795030000101

 **RENZACCI**
INDUSTRIA LAVATRICI



LEGENDA KEY		
A	Scarico Aria/fumi Air/Fumes Exhaust	Ø 164 mm
E	Computer	-
F	Coperchio Inverter Inverter Cover	-
G	Ingresso Gas Gas Inlet	Ø 1/2"
I	Sezionatore Switch	-

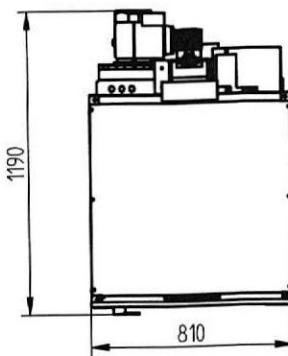
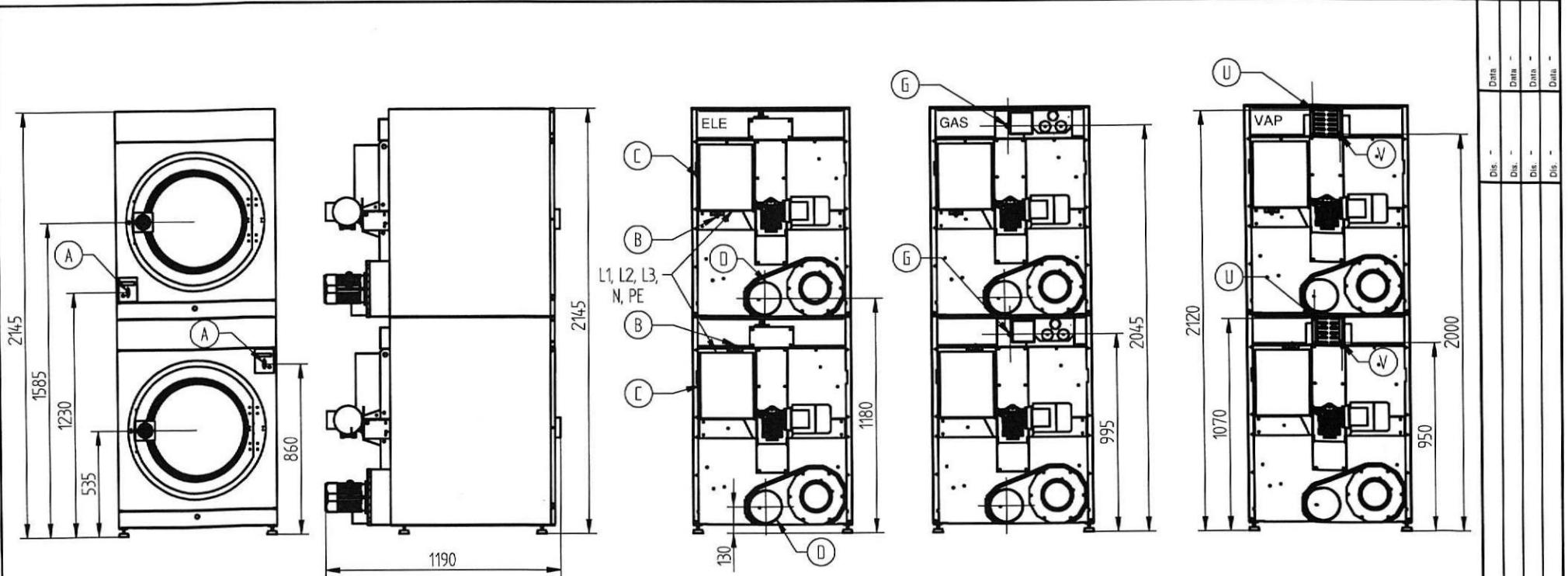
DIMENSIONI - DIMENSIONS		VARIO		NOTE			
DENOMINAZIONE PARTICOLARE	QUANTITA'	MATERIALE	TITOLO ST 25-25 RISCALDAMENTO A GAS - GAS HEATING				
 RENZACCI INDUSTRIA LAVATRICI							
Scala 1: 15	Data 09/04/2015	DIS MS	Vista -				
PROJ	REV.N.1	Foglio 2 di 3	DIS.N.				
	DEL 21/04/2017	A3	1795030000101				



LEGENDA KEY	
Scarico Aria/fumi Air/Fumes Exhaust	Ø 164 mm
Computer	-
Coperchio Inverter Inverter Cover	-
Sezionatore Switch	-
Ingresso Vapore Steam Inlet	Ø 1/2"
Uscita Vapore Condensato Steam Condensate	Ø 1/2"

DIMENSIONI - DIMENSIONS
DENOMINAZIONE PARTICOLARE
RENZACCI
INDUSTRIA LAVATRICI
PROJ

QUANTITA'	TITOLO	VARIO	MATERIALE	NOTE
	ST 25-25	RISCALDAMENTO VAPORE - STEAM HEATING		
Scala 1:15	Data 09/04/2015	DIS.	MS	Visto
REV.N.1	Foglio 3 di 3	DIS.N.	I795030000101	
DEL 21/04/2017	A3			



KEY		
A	COMPUTER	
B	SEZIONATORE - SWITCH	
C	COPERCHIO INVERTER INVERTER COVER	
D	SCARICO ARIA/FUMI AIR/FUMES EXHAUST DRAIN	Ø 164 mm
G	INGRESSO GAS - GAS INLET	1/2" G
U	INGRESSO VAPORE - STEAM INLET	1/2" G
V	USCITA VAPORE CONDENSATO STEAM CONDENSATE OUTLET	1/2" G



INDUSTRIA LAVATRIC

MACCHINA COMPLETA		-	-	-	D	C	B	A
DENOMINAZIONE PARTICOLARE		QUANTITA'	MATERIALE	NOTE				
 RENZACCI INDUSTRIA LAVATRICI		TITOLO ST 35-35						
Scala	1: 20	Data	01/03/2018	DIS.	MS	Visto	-	
-	REV.N.0	Foglio	1 di 1	DIS.N.				
PROJ	270 kg	DEL	/ / / /	A3		I789000100000		



**SPARE PARTS
PARTI DI RICAMBIO
PIECES DETACHEES
PIEZAS DE REPUESTO**

SPARE PARTS
PARTI DI RICAMBIO
PIECES DETACHEES
PIEZAS DE REPUESTO

In the event of a damage to a machine part always contact the Parts Service of Renzacci S.p.A. or an authorized Renzacci Service centre.

IMPORTANT FOR ORDERING SPARE PARTS PLEASE SPECIFY:

MACHINE TYPE – Serial n. Indicated on the plate at the back of the machine
TAV.N.
REFERENCE NUMBER
QUANTITY OF THE PARTS.
HOW WE HAVE TO SHIP THEM TO YOU.
YOUR NAME AND ADDRESS, ETC.
ANY OTHER USEFUL INFORMATION.

In caso d'avaria di un pezzo della macchina fare sempre affidamento al servizio di pezzi di ricambio della Renzacci S.p.A. o dei rivenditori autorizzati Renzacci S.p.A.

IMPORTANTE PER RICHIESTA PEZZI DI RICAMBIO SPECIFICARE:

TIPO DI MACCHINA – N.º matricola indicato sulla targhetta posteriore della macchina
TAV. N.
NUMERO DI RIFERIMENTO
NUMERO DEI PEZZI.
MODALITÀ DI SPEDIZIONE.
RAGIONE SOCIALE, INDIRIZZO, ECC.
EVENTUALI INFORMAZIONI RITENUTE UTILI.

En case de panne d'une pièce de la machine adressez-vous toujours au service pièces détachées de la Société RENZACCI S.P.A. ou aux revendeurs autorisés RENZACCI S.P.A.

IMPORTANT POUR COMMANDER LES PIECES DETACHEES SPECIFIEZ:

TYPE DE MACHINE – N.º de matricule indiqué sur la plaquette postérieure de la machine
TAV. N.
NUMERO DE REFERENCE
NUMERO DES PIECES.
MODALITE D'EXPEDITION.
RAISON SOCIALE, ADRESSE ETC.
EVENTUELLES INFORMATIONS UTILES.

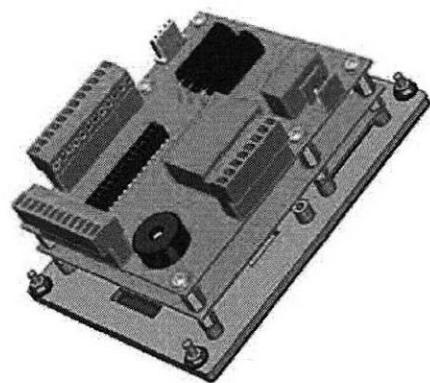
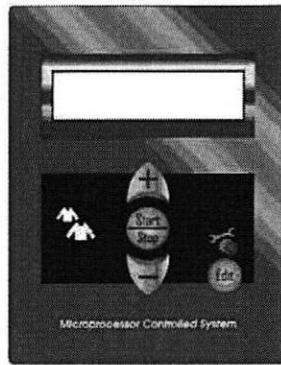
En caso de avería de una pieza de la máquina, ordenarlas siempre al servicio piezas de repuestos RENZACCI S.p.A. o a los revendedores autorizados RENZACCI S.p.A.

IMPORTANTE PARA PEDIR LAS PIEZAS DE REPUESTO ESPECIFICAR:

MODELO DE MÁQUINA – Numero de matricula indicada en el revés de la máquina.
TAV. N.
NUMERO REFERENCIA
NÚMERO DE REPUESTOS
MODO DE ENVÍO
DIRECCIÓN, ETC.
EVENTUALES INFORMACIONES QUE SE RETIENEN ÚTILES.

MICROPROCESSORE
MICROPROCESSOR
MICROPROCESSEUR
MICROPROCESADOR

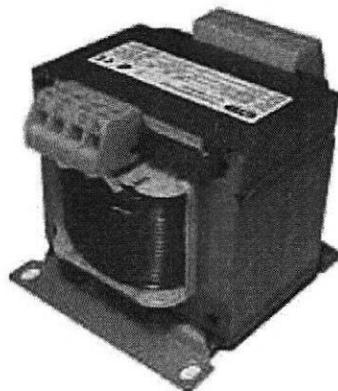
M02621



TRASFORMATORE
TRANSFORMER
TRANSFORMATEUR
TRANSFORMADOR

100VA

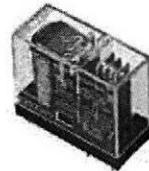
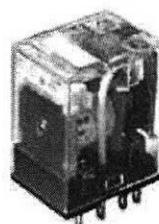
M02410



RELE'
RELAY
RELAIS
RELE'

M02258

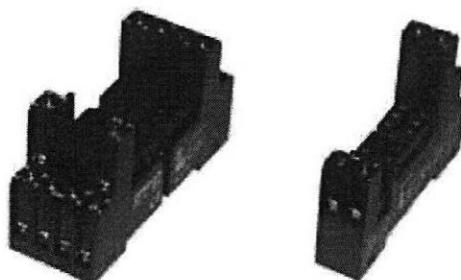
M02263



ZOCOLO RELE'
SOCKET FOR RELAY
SUPPORT RELAIS
ZOCALO RELE'

M02269

M02264



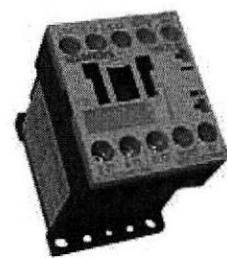
TAV. N. 0117.0

CONTATTORI
CONTACTORS
CONTACTEURS
CONTACTORES



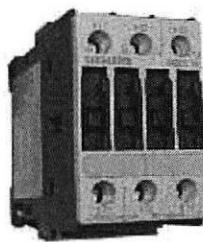
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3RT1036-1AC20	kW 22	M02192

CONTATTORI
CONTACTORS
CONTACTEURS
CONTACTORES



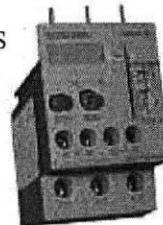
3RT1016-1AB01	kW 4.0	M02193
3RT1017-1AB01	kW 5.5	M02204

CONTATTORE
CONTACTOR
CONTACTEUR
CONTACTOR



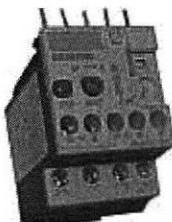
3RT1026-1AC20	kW 11	M02197
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RELE' DI SOVRACCARICO
PLUG-IN OVERLOAD RELAYS
RELAIS DE SURCHARGE
RELES DE SOBRECARGA



3RU1126-1KB0	9/12.5A	M02248
3RU1126-4AB0	11/16 A	M02249
3RU1126-4CB0	17/22 A	M02250
3RU1136-4EB0	22/32 A	M02251

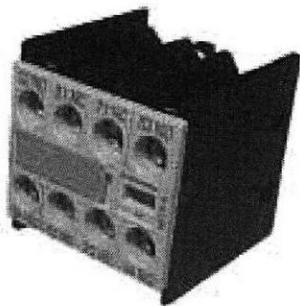
RELE' DI SOVRACCARICO
PLUG-IN OVERLOAD RELAYS
RELAIS DE SURCHARGE
RELES DE SOBRECARGA



3RU1116-0JB0	0.7/1.0A	M02253
3RU1116-1AB0	1.0/1.6A	M02244
3RU1116-1CB0	1.8/2.5A	M02245
3RU1116-1EB0	2.8/4.0A	M02246
3RU1116-1GB0	4.5/6.3A	M02247
3RU1116-1JB0	7.0/10 A	M02252

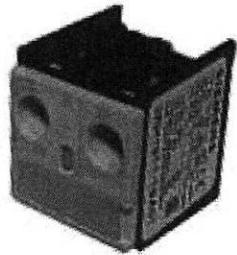
CONTATTI AUSILIARI
AUXILIARY CONTACTS
CONTACTS AUXILIARES
CONTACTOS AUXILIARES

M02207



CONTATTI AUSILIARI
AUXILIARY CONTACTS
CONTACTS AUXILIARES
CONTACTOS AUXILIARES

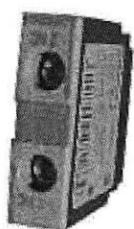
M02206



CONTATTO AUSILIARIO
AUXILIARY CONTACT
CONTACT AUXILIAIRE
CONTACTO AUXILIAR

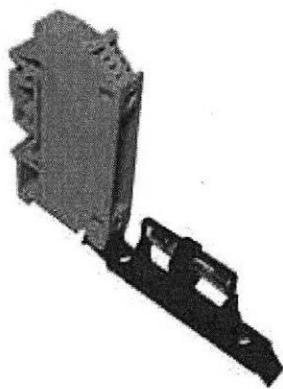
NC M02226

NO M02227



PORAFUSIBILI
FUSES HOLDERS
PORTE-FUSIBLES
PORTA FUSIBLES

M03229



FUSIBILI
FUSES
FUSIBLES
FUSIBLES



6 A	03153
10 A	03154

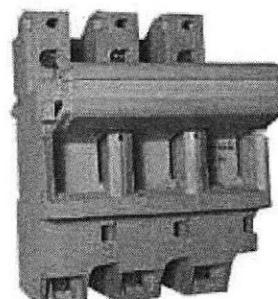
FUSIBILI
FUSES
FUSIBLES
FUSIBLES



32 A	03265
50 A	03262
63 A	03267

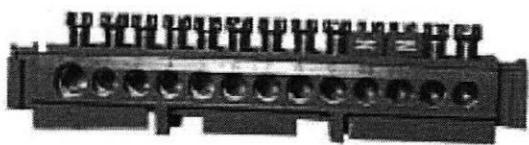
PORAFUSIBILI
FUSES HOLDERS
PORTE-FUSIBLES
PORTA FUSIBLES

M03260



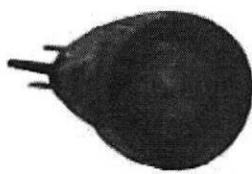
MOSETTIERA
TERMINAL BLOCK
BLOC DE BORNES
BLOQUES DE TERMINALES

M04096



LAMPADA SPIA
PILOT LIGHT
VOYANT
LAMPARA PILOTO

24 V.	M04055
220 V.	M04037



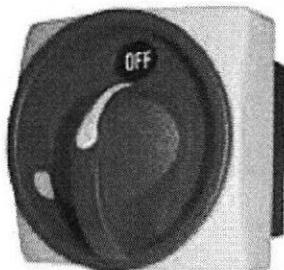
PULSANTE
PUSH-BUTTON
BOUTON-POUSSOIR
PULSADOR

M02361



INTERRUTTORE PRINCIPALE
MAIN SWITCH
INTERRUPEUR PRINCIPAL
INTERRUPTOR PRINCIPAL

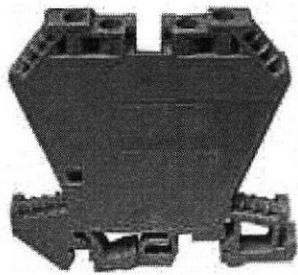
M02511



TAV. N. 0120.1

M04082

MORSETTO
TERMINAL BLOCK
BLOC DE BORNES
BLOQUE DE TERMINALES



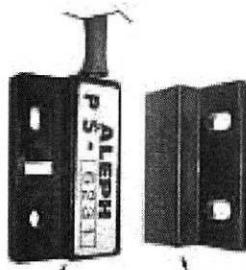
M02375

PULSANTE EMERGENZA (OPTIONAL)
EMERGENCY STOP BUTTON (OPTION)
POUSSOIR D'URGENCE (OPTION)
PULSADOR DE EMERGENCIA (OPCIONAL)



PER ESSICCATORI CON COMPUTER
FOR TUMBLE DRYERS WITH MICROPROCESSOR
POUR SECCHOIRS ROTATIFS AVEC MICROPROCESSEUR
PARA SECADEROS ROTATIVOS CON MICROPROCESADOR

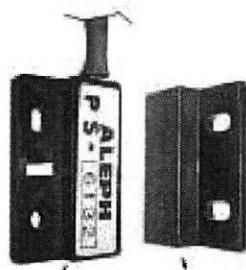
M02574



M02331

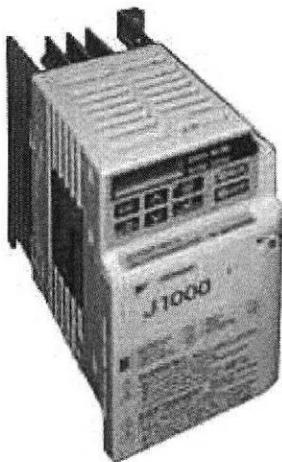
PER ESSICCATORI SENZA COMPUTER
FOR TUMBLE DRYERS WITHOUT MICROPROCESSOR
POUR SECCHOIRS ROTATIFS SANS MICROPROCESSEUR
PARA SECADEROS ROTATIVOS SIN MICROPROCESADOR

M02573



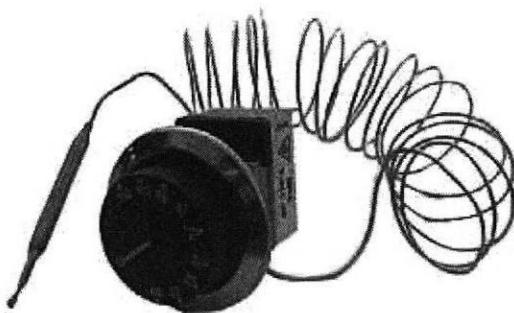
M02331

JZA0P4BAA	0.55 kW	M25092
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TERMOSTATO
THERMOSTAT
THERMOSTAT
TERMOSTATO

30°C-110°C	M06003
4°C-40°C	M06003



SONDA PTC
PTC SENSOR
SONDE PTC
SONDA PTC

M06055



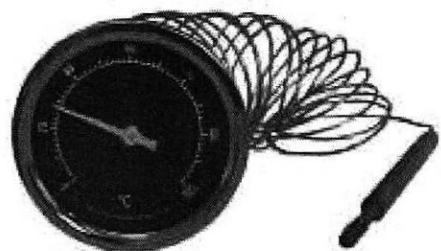
SONDA DI UMIDITA' (OPTIONAL)
UMIDITY PROBE (OPTION)
SONDE HUMIDITE' (OPTION)
SONDA HUMEDAD (OPCIONAL)

M06056



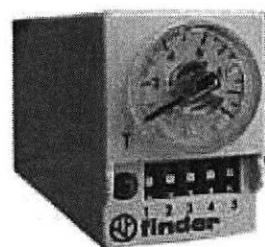
TERMOMETRO
THERMOMETER
THERMOMETRE
TERMOMETRO

M06029



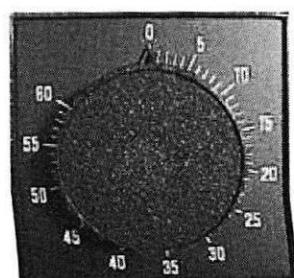
RELE' TEMPORIZZATORE
TIMER RELAY
RELAIS TEMPORISES
RELE' TEMPORIZADOR

M02260



TEMPORIZZATORE
TIMER
TEMPORISES
TEMPORIZADOR

M02088





SCARICATORE DI CONDENSA (OPTIONAL)
 AUTOMATIC CONDENSATE DRAIN (OPTION)
 DECHARGEUR DE CONDENSATION (OPTION)
 DESCARGADORES CONDENSACION (OPCIONAL)

Ø3/8"	M17126
Ø1/2"	M17127
Ø3/4"	M17128
Ø1"	M17129

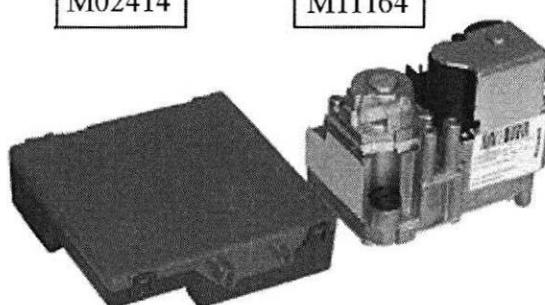


ELETROVALVOLA INGRESSO VAPORE (OPTIONAL)
 STEAM INLET ELECTROVALVE (OPTION)
 ELECTROVANNE ENTREE VAPEUR (OPTION)
 ELECTROVALVULA ENTRADA VAPOR (OPCIONAL)

Ø1/2" FF 24V/50-60Hz	M11033
Ø3/4" FF 24V/50-60Hz	M11034

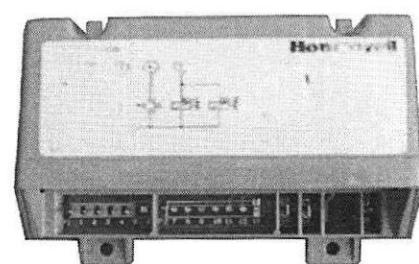


M02414

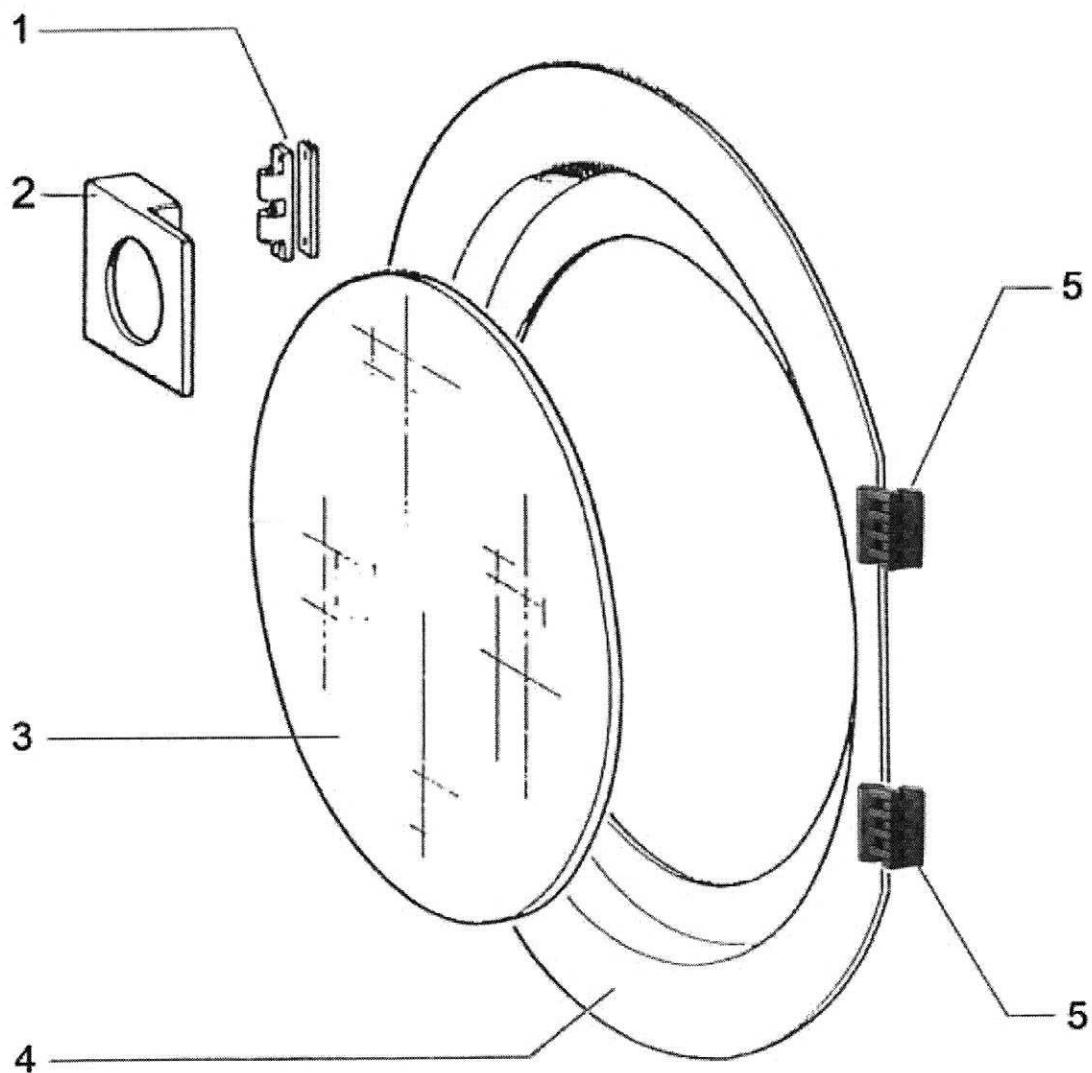


M11164

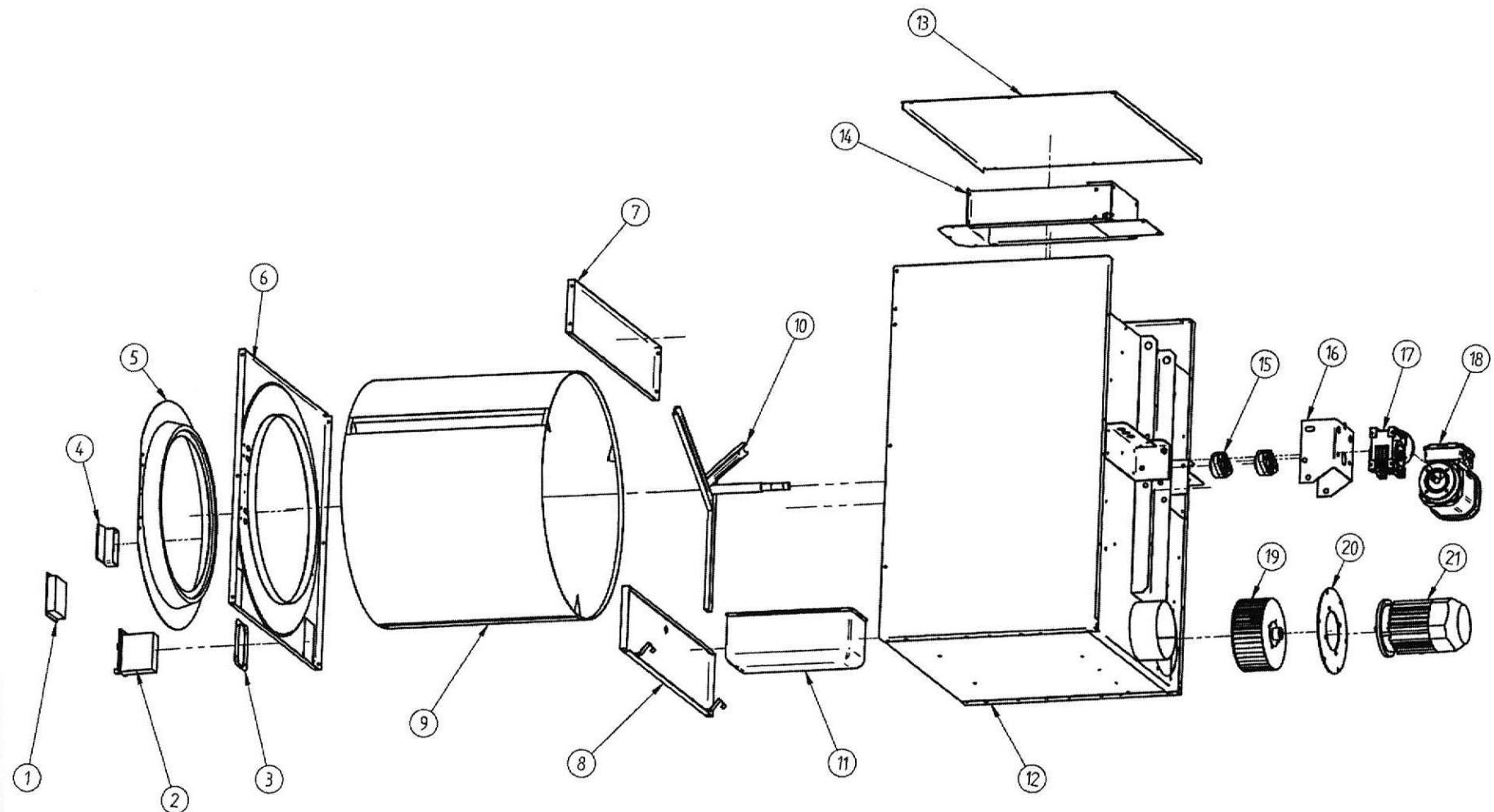
M02083





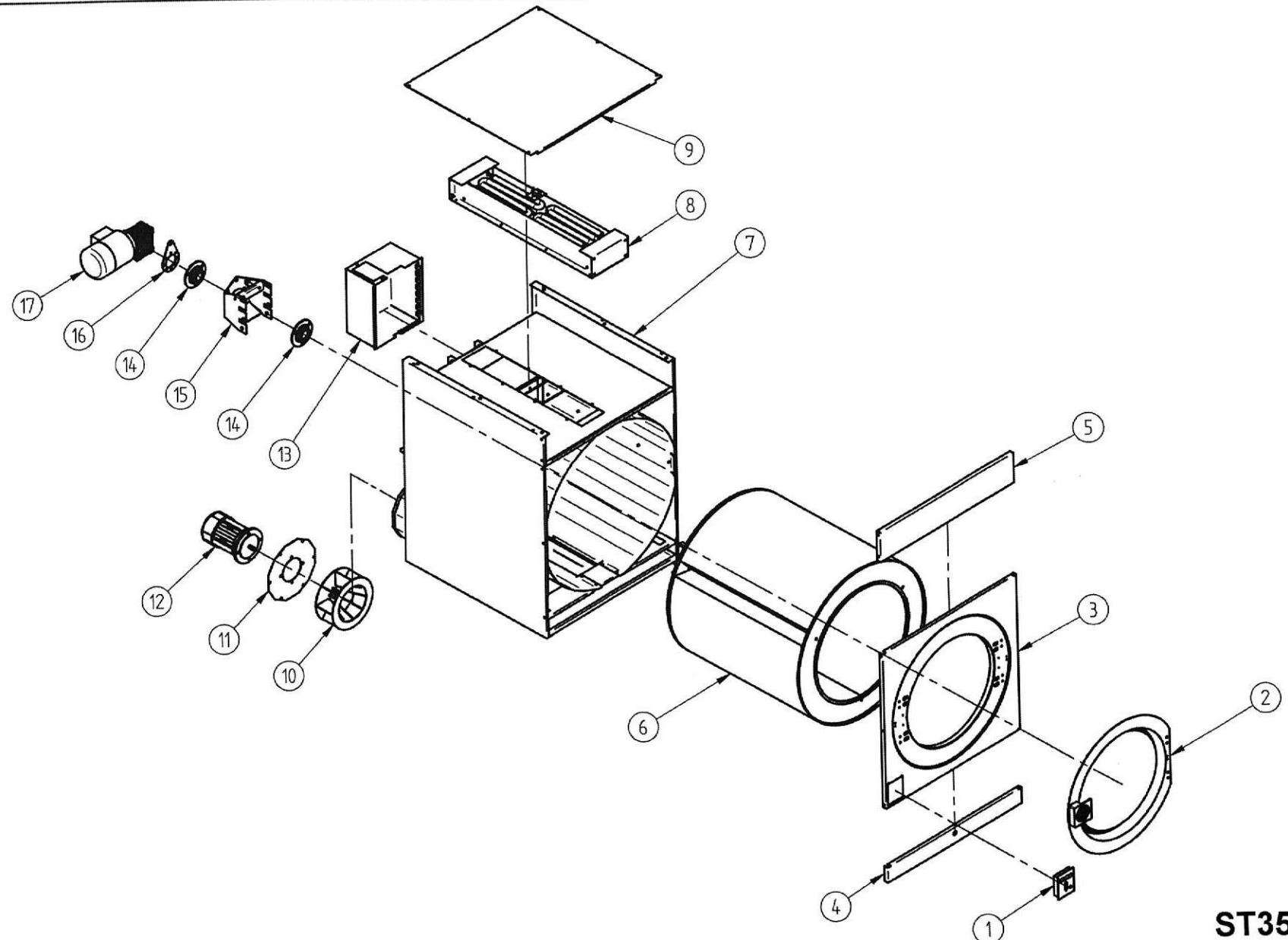


TAV.N. 0127.1

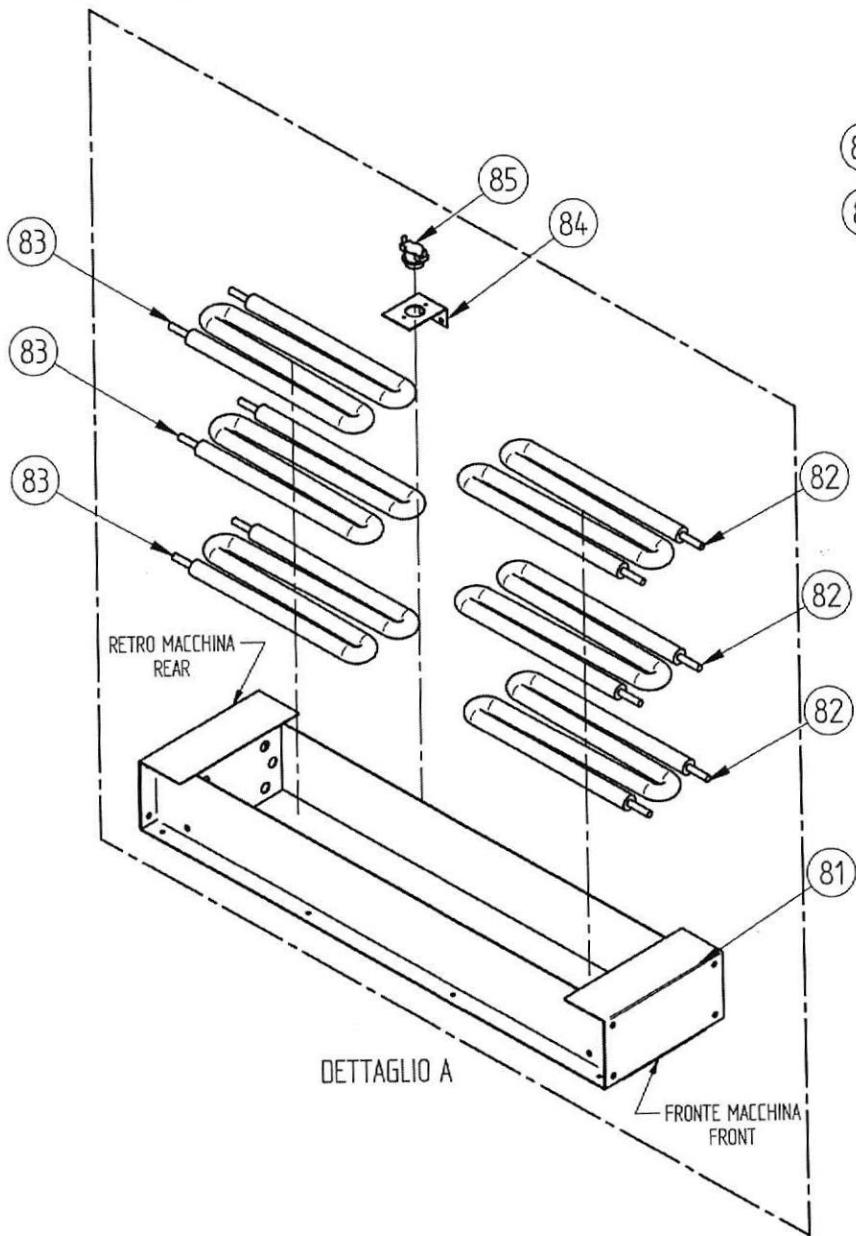


ST2525

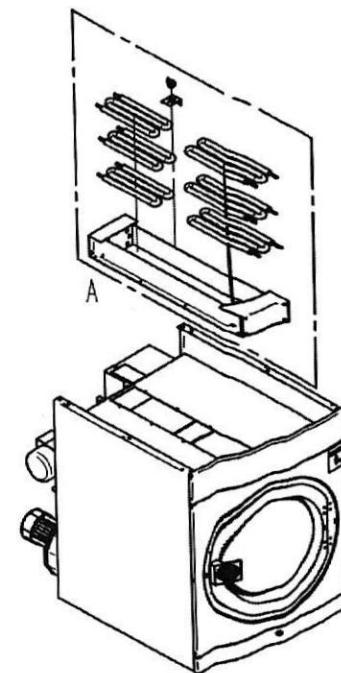
TAV.N. 0246.DT



TAV.N. 0247.DT

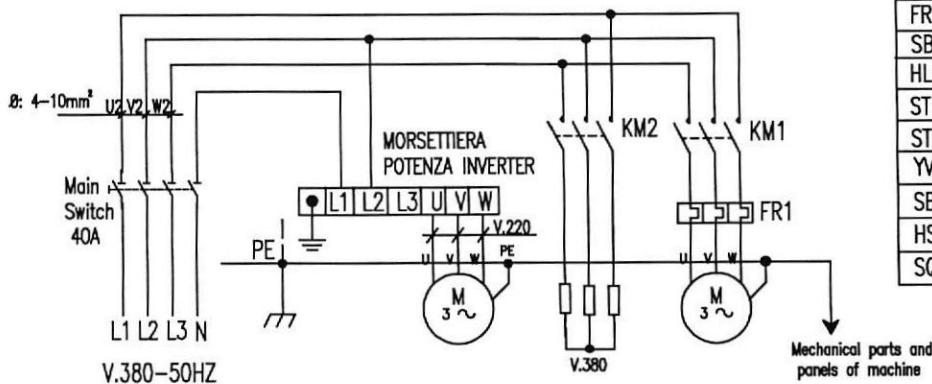
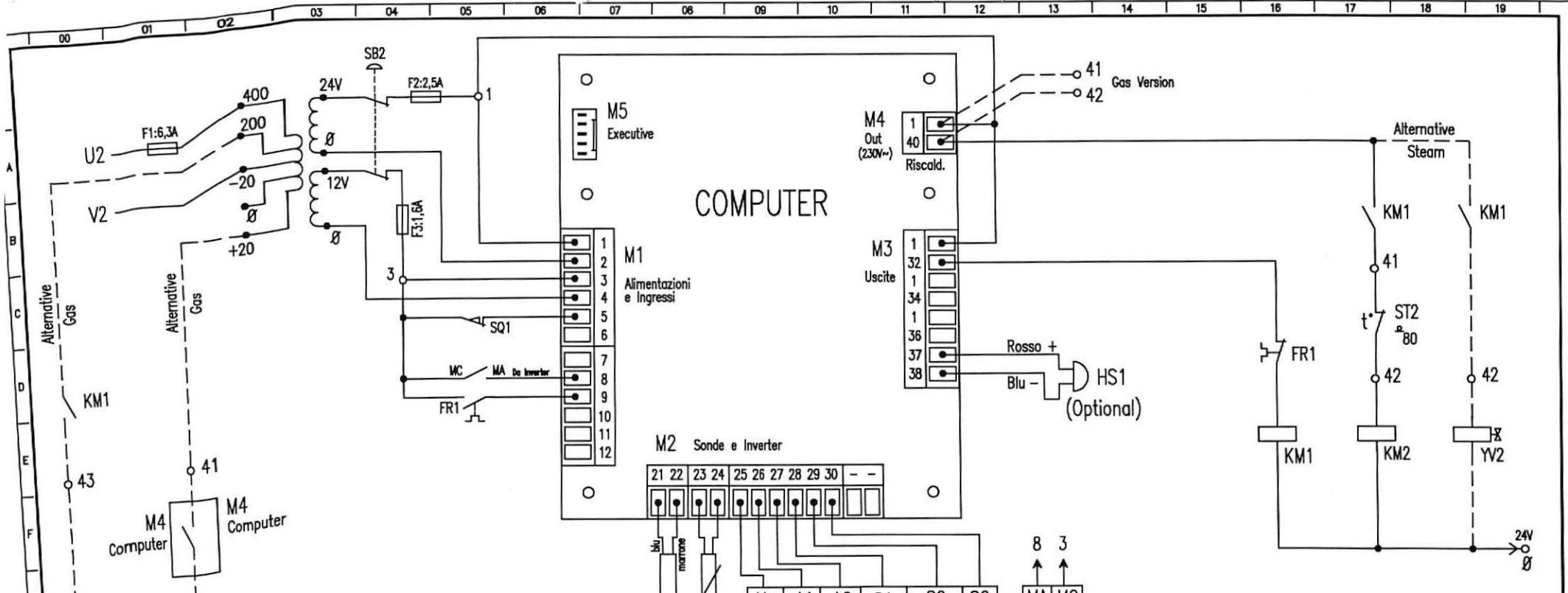


(82) M10605 - 2,5 kW
 (83) M10603 - 3 kW



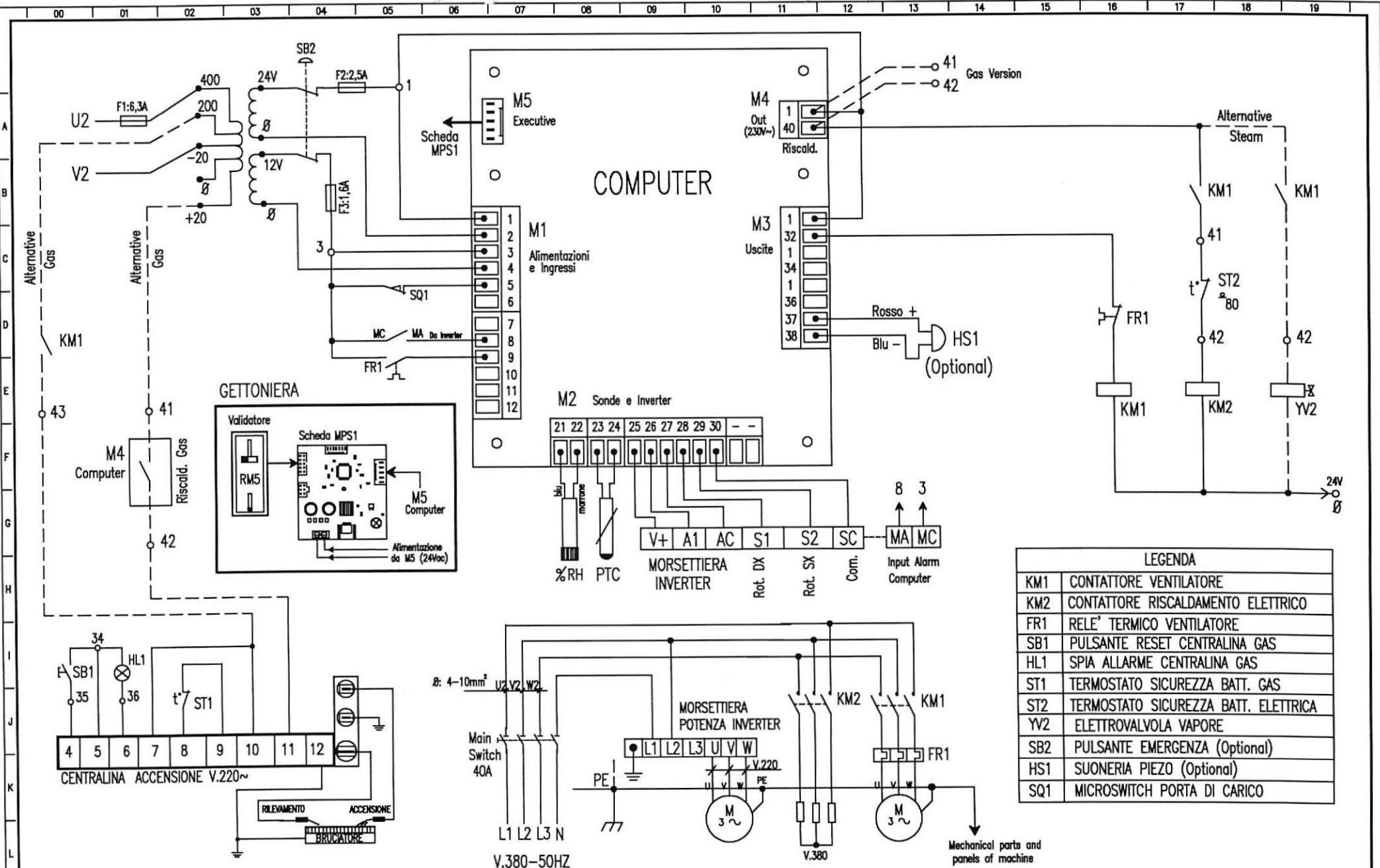
ST3535

TAV.N. 0248.DT

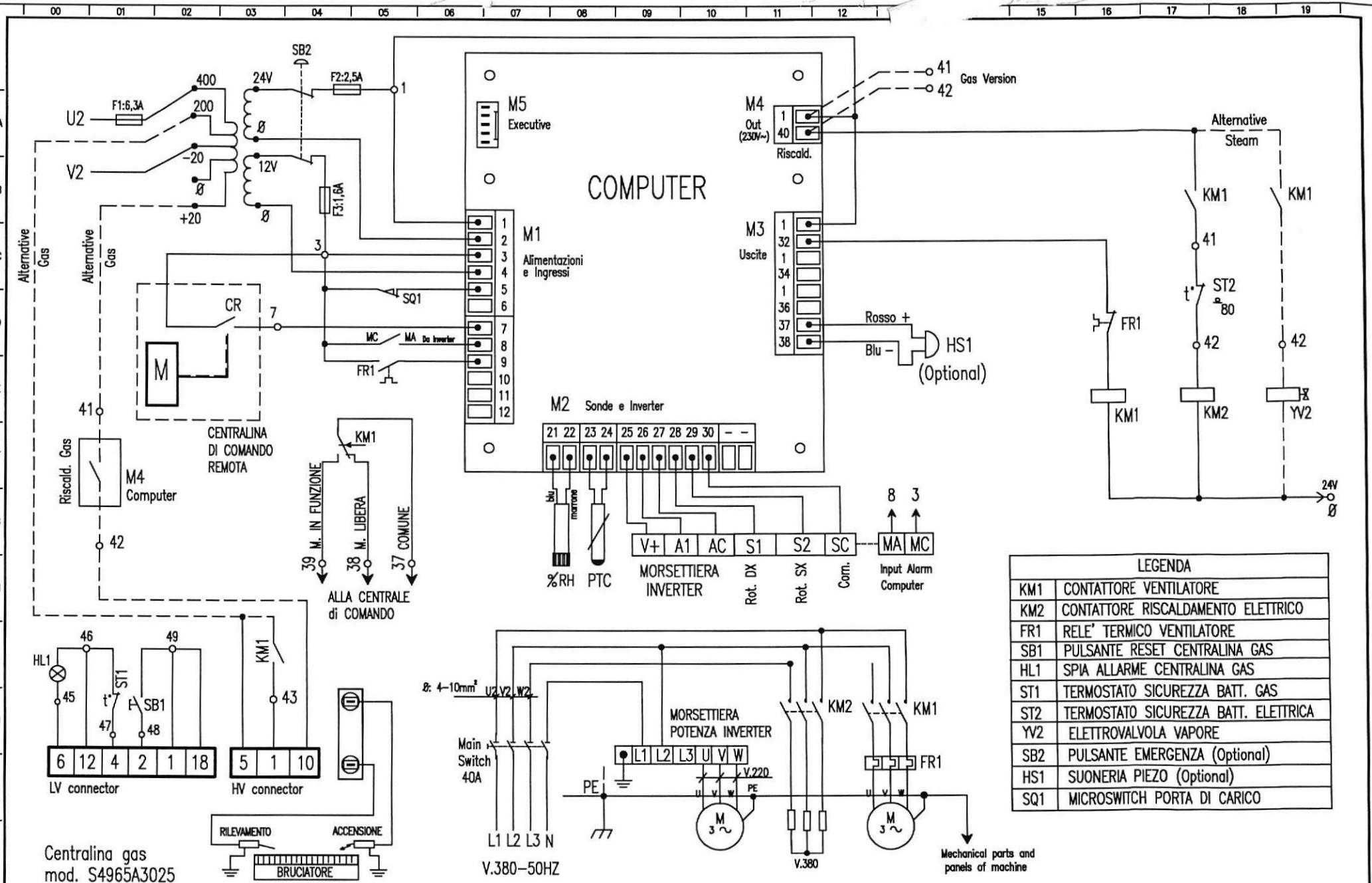


LEGENDA	
KM1	CONTATTORE VENTILATORE
KM2	CONTATTORE RISCALDAMENTO ELETTRICO
FR1	RELE' TERMICO VENTILATORE
SB1	PULSANTE RESET CENTRALINA GAS
HL1	SPIA ALLARME CENTRALINA GAS
ST1	TERMOSTATO SICUREZZA BATT. GAS
ST2	TERMOSTATO SICUREZZA BATT. ELETTRICA
YV2	ELETROVALVOLA VAPORE
SB2	PULSANTE EMERGENZA (Optional)
HS1	SUONERIA PIEZO (Optional)
SQ1	MICROSWITCH PORTA DI CARICO

			IMPIANTO SCHEMA ELETTRICO ESSICCATORE	TITOLO R35-35-55 Plus	DISEGNATORE Ing. OCCHINI	N. DIS. 3000 N. ARCH.	FOGLIO 1	SEGUE
			RENZACCI SPA Città' di Castello	SCHEMA 3000	RIF. CLIENTE	FIRMA	DATA 04/12/2018	
							SCALA 1:1 mm	TDT. FGGLI
REV.	DATA	OGGETTO MODIFICA	FIRMA					



				IMPIANTO SCHEMA ELETTRICO ESSICCATORE	TITOLO R 25-35-55 Plus Gett.	DISEGNATORE Ing. OCCHINI	N. DIS. 3001 N. ARCH.	FOGLIO 1	SEGUE
				RENZACCI SPA Città' di Castello	SCHEMA 3001	RIF. CLIENTE	FIRMA	DATA 03/02/2010	TOT. FOGLI
REV.	DATA	OGGETTO MODIFICA	FIRMA					SCALA 1:1 mm	



REV.	DATA	OGGETTO MODIFICA	FIRMA	IMPIANTO SCHEMA ELETTRICO ESSICCATORE	TITOLO R 25-35-55 CPS Staker - DryTower	DISEGNATORE Ing. OCCHINI	N. DIS. 3011	FOGLIO 1	SEGUE
				RENZACCI SPA Città di Castello	SCHEMA 3011	RIF. CLIENTE	FIRMA	TOT. FOGLI	

