

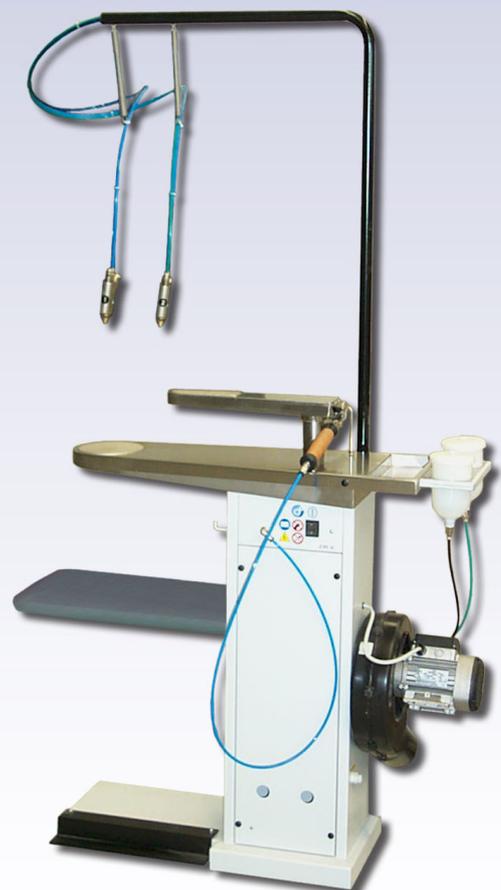
Maintenance and Operating Manual

STAIN REMOVAL TABLE



EC 76

EC 72



STAIN REMOVAL TABLE

MODEL: _____

SERIAL NUMBER: _____

YEAR OF CONSTRUCTION: _____

MARKING: CE



ROTONDI GROUP S.R.L. supplies the following documentation:

- **Maintenance and Operating Manual**
- **Machine diagrams**
- **Declaration of CE compliance**

Main warnings

**MAIN WARNINGS**

- IN THE PARAGRAPHS RELEVANT TO THE TECHNICAL DESCRIPTION, THE LOCATION OF THE ACCESSORIES AND THE VARIOUS MACHINE PARTS IS ALWAYS GIVEN WITH REFERENCE TO THE OPERATOR'S POSITION.
- ALL THE MAINTENANCE AND ADJUSTMENT ACTIVITIES DESCRIBED IN THIS HANDBOOK MUST BE CARRIED OUT ONLY AFTER STOPPING THE MACHINE (MAIN SWITCH TURNED TO OFF) AND DISCONNECTING THE POWER CABLE IF NOT CLEARLY INDICATED THAT THE OPERATION MUST BE CARRIED OUT WHEN THE MACHINE IS ON.
- ALL THE ADJUSTMENT AND REPLACEMENT ACTIVITIES THAT ARE NOT DESCRIBED IN THIS HANDBOOK MUST BE CARRIED OUT BY QUALIFIED AND SKILLED OPERATORS TO AVOID ANY ACCIDENT OR DAMAGE TO THE MACHINE AND TO THE OPERATOR.

CAREFULLY READ THIS OPERATING HANDBOOK BEFORE USE.

IT PROVIDES IMPORTANT INFORMATION ABOUT SAFE INSTALLATION, USE AND MAINTENANCE OF THE MACHINE.

- DISREGARDING SAFETY INSTRUCTIONS MAY ENTAIL BOTH SERIOUS INJURIES TO THE OPERATOR AND DAMAGES TO THE MACHINE.
- CAREFULLY KEEP THIS HANDBOOK FOR CONSULTATION PURPOSES UP TO THE MACHINE FINAL DISMANTLING.
USE AND MAINTENANCE PROCEDURES MUST BE CORRECTLY CARRIED OUT; OTHERWISE, THE BUILDER CANNOT BE HELD RESPONSIBLE FOR DAMAGES TO PEOPLE, ANIMALS OR THINGS DERIVING FROM THE NON-OBSERVANCE OF THE FOLLOWING INSTRUCTIONS.
- CHECK THAT BOTH THE MACHINE AND ITS COMPONENTS ARE UNDAMAGED WHEN UNPACKING. CONTACT YOUR DEALER IN CASE OF DOUBTS.
- THE INSTALLATION MUST BE CARRIED OUT BY SKILLED OPERATORS, ACCORDING TO THE BUILDER'S INSTRUCTIONS. MAKE SURE THAT THE RATING CORRESPONDS TO THE FACTORY POWER LINE BEFORE ENERGISING THE MACHINE. THE MACHINE IS ELECTRICALLY-SAFE ONLY WHEN PROPERLY GROUNDED. IN CASE OF DOUBTS, CONTACT SKILLED OPERATORS FOR A THOROUGH INSPECTION.
- DISCONNECT THE MACHINE FROM THE POWER LINE BEFORE ANY CLEANING OR MAINTENANCE ACTIVITY.
- NEVER LEAVE THE MACHINE CONNECTED TO THE POWER LINE IF THIS IS NOT NECESSARY. TURN OFF THE MAIN SWITCH WHEN THE MACHINE IS NOT BEING USED.
- IN CASE OF TROUBLE AND/OR BAD FUNCTIONING DISCONNECT THE MACHINE FROM THE POWER LINE, CLOSE THE WATER, STEAM AND COMPRESSED AIR COCK WITHOUT TAMPERING WITH THE CONTROLS AND THE EQUIPMENT. CONTACT ONLY A QUALIFIED AFTER-SALES TECHNICAL SERVICE AUTHORISED BY THE BUILDER.
- DRAIN AND LOAD PIPES, SAFETY SHEATHS AND SOLENOID VALVES MUST NOT BE CUT AND TAMPERED WITH. DISCONNECT THE MACHINE FROM THE POWER LINE IN CASE OF DAMAGE.
- ANY USE OF THE MACHINE OTHER THAN THE ONE IT HAS BEEN BUILT FOR REPRESENTS AN ANOMALOUS CONDITION, CAN CAUSE SERIOUS DAMAGES TO THE OPERATING MEANS AND ENTAIL A SERIOUS RISK FOR THE OPERATOR USING IT.
- NEVER REMOVE OR HIDE THE WARNING LABELS AFFIXED IN THE MACHINE FRONT AND SIDE PARTS.

IN ADDITION:

A FEW FUNDAMENTAL RULES COMMON TO ALL ELECTRIC POWERED MACHINES MUST ALSO BE OBSERVED.

IN PARTICULAR:

- NEVER TOUCH OR START THE MACHINE WITH WET HANDS OR BARE FEET.
- REMOVE THE CASINGS AND THE DOORS OF THE ELECTRIC BOARDS ONLY ONCE THE MACHINE HAS BEEN STOPPED AND DE-ENERGISED;
- NEVER PULL THE POWER CABLE TO DISCONNECT THE PLUG FROM THE SOCKET.

FOR FIRE-PREVENTION PURPOSES:

- KEEP ALL INFLAMMABLE OR COMBUSTIBLE PRODUCTS AWAY FROM THE EQUIPMENT AREA.
- CAREFULLY READ THE INSTRUCTIONS ON THE LABELS OF THE SUITS.

OF COURSE, THE ABOVE-MENTIONED INSTRUCTIONS ARE NOT SUFFICIENT TO PREVENT ALL SORTS OF ACCIDENTS; THEREFORE, THE USER WILL HAVE TO BE CAUTIOUS.

THE MACHINE MUST NOT BE MODIFIED OR CHANGED IN ANY WAY WITHOUT THE BUILDER'S WRITTEN AUTHORISATION.

- **THE MANUFACTURER'S RESPONSIBILITY CEASES IN THE EVENT OF INTERVENTIONS RESULTING IN MODIFICATIONS, MISHANDLING OR ANY OPERATIONS WHICH PROVE DETRIMENTAL TO THE MACHINE'S SAFETY AND STABILITY, PRACTICED AFTER FINAL TESTING AND THE ISSUING OF THE CE DECLARATION OF CONFORMITY.**

Main warnings

IMPORTANT SAFETY INSTRUCTIONS

When using your appliance, basic precautions should always be followed, including the following:

1. Read all instructions
2. To reduce the risk of contact with hot water emitting from steam vents, check appliance before each use by holding it away from body and operating steam button
Exception. This instruction may be omitted for an appliance that will not produce water droplets as determined by the test specified in 32.1.4
3. Use appliance only for its intended use
4. To reduce the risk of electric shock, do not immerse the appliance in water or other liquids
5. Never yank cord to disconnect from outlet; instead grasp plug and pull to disconnect
6. Do not allow cord to touch hot surfaces. Let appliance cool completely before putting away. Loop cord loosely around appliance when storing
7. Always disconnect appliance from electrical outlet when filling with water or emptying and when not in use
8. Do not operate appliance with a damaged cord, or if the appliance has been dropped or damaged. To reduce the risk of electric shock do not disassemble or attempt to repair the appliance, take it to a qualified service person for examination and repair incorrect reassembly or repair could cause a risk of fire, electric shock or injury to persons when the appliance is used
9. Close supervision is necessary for any appliance being used by or near children. Do not leave appliance unattended while connected
10. Burns could occur from touching hot metal parts, hot water or steam. Use care when you turn a steam appliance upside down - there may be hot water in the reservoir

SAVE THESE INSTRUCTIONS

45.4 As applicable, the following instructions or the equivalent shall be included in addition to the instructions n.45.3

a) For appliances rated more than 7 amperes

11. To reduce the likelihood of circuit overload, do not operate another high wattage appliance on the same circuit
12. If an extension cord is absolutely necessary a (ampere rating of the appliance) ampere rated cord should be used. Cords rated for less ampereage may overheat. Care should be taken to arrange the cord so that the cord cannot be pulled or tripped over

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General information about the operating handbook

1.4 Manual use and safekeeping

This manual has been written for the machine user, and for all the personnel in charge of transport and handling, installation, use, supervision, maintenance and demolition.

This manual provides all instructions on machine use according to the project and technical features, for handling, adequate and safe installation, assembly setting, tuning and use. It also provides all instructions for maintenance operations, how to order spare parts, and provides warning advice on possible additional danger risks.

In particular, the manual must be readily available for the following information:

- working conditions for machine use;
- the operator's work control position;
- as well as instructions concerning:
 - setting up;
 - use;
 - transport;
 - installation;
 - assembly and disassembly;
 - setting and tuning interventions;
 - repairs and maintenance;
 - possible training instructions.

Respecting current legislation

As well as the rules included in this manual, all current specific safety standards against danger in the work area must be correctly observed.

Safekeeping of the manual.

This manual is considered as being part of the machine and must be kept safely and in good condition for the whole period the machine is used.

It must be kept in a safe dry place out of sunlight, readily available and accessible for reference near the machine at all times.

Information for the user.

1. This manual describes the current technical level of the machine and cannot be considered incomplete if the machine is upgraded as a result of new know-how.
2. The manufacturer reserves the right to update the machine and this manual without the necessity to update previous models and manuals.
3. The materials used on this machine can be modified at any time as a result of technical evolution without prior notice.
4. In the case where the machine supplied to the customer is not equipped with electrical controls and protection (electrical control panel on the machine), the manufacturer assumes no responsibility concerning safety protection from electrical parts which are not in compliance with instructions provided and recommended in this manual. In all cases the current safety standards concerning electrical parts for accessory machine equipment are the sole responsibility of the customer who must provide for their correct standard and suitability for the use in question.

General information about the operating handbook

5. The manufacturer will not be held responsible for any damage or injury as a result of:
- incorrect use.
 - incorrect machine use
 - use by untrained personnel
 - inappropriate use not included in these instructions
 - use contrary to current legislation and safety standards
 - use with faulty main line supply
 - use in the case of serious lack of maintenance
 - use after unauthorised changes or interventions (changes without written authorisation from manufacturer)
 - use with non original spare parts or parts not specifically recommended for the machine
 - use after disregarding either totally or partially specific instructions provided in this manual.
6. The general sales guarantee is not valid in the following cases:
- bad maintenance;
 - problems as a result of incorrect use;
 - use by inexperienced personnel;
 - excessive use over machine performance limits;
 - excessive mechanical, electrical or pneumatic strain;
 - use when the machine is not in good performing condition (point 5).

1.5 Request for additional copies of the manual

Eventual requests for other copies of this document must be ordered from the manufacturer as well as:

- any instructions concerning tools which can be mounted on the machine;
- essential safety requisites in compliance with machine standards and enclosures.



WARNING!

The Manufacturer reserves the right to modify the machine, for any reason of a technical or commercial nature, without the obligation of prior warning to its customers.

The Manufacturer shall not be held responsible for any inconveniences, damages and breakage, injuries resulting from:

- total or partial knowledge of the machine and its operation;
- incomplete application of norms on usage and safety established in the present catalogue;
- erroneous manoeuvres;
- lack of maintenance;
- maintenance interventions carried out by non qualified personnel;
- natural disasters.



IMPORTANT!

The operator, or whoever is responsible for the machine's use and maintenance, is severely cautioned against bring about any modifications or variations to the machine and the present maintenance and operating manual without the manufacturer's prior consent.

NOTE!

The manufacturer warns its customers that any reference to objects or products of a specific brand are not binding, and that discrepancies may exist with what is effectively adopted on the machine. The graphic documentation employed is therefore utilized purely for indicative purposes.

Machine description

Stain removal table with work surface suction chamber in stainless steel.

SERIES EC 76

Machine for removing stains equipped with two spraying guns featuring independent loading containers for diversified use.

The positioning of the spray guns allows the operator greater facility during the stain removal phase.

Silent, efficient and reliable, this stain removal machine, in conjunction with an active carbon purifier unit, allows for environmentally safe stain removing.

SERIES EC 72

Machines for removing stains that can be ideally inserted in a modern ironing line. Carefully studied design specifications allow the operator to be consistently in the ideal position, thus reducing fatigue and increasing productivity. The dual function of the spray gun, steam-hot air, allows for the delicate elimination of stains, preventing the appearance of halos or shiny spots.

Simple and compact characteristics allow for easy installation, even on pre-existing ironing lines. An active carbon purifier unit is supplied as standard equipment, enabling stain removal operations that are environmentally safe, along with a cold stain removal unit (comprising 2 stain removing guns with loading containers and air filters).

Picture chap. 2

Series
EC 76Series
EC 72

Machine description

2.1 Additional risks

In order to work in the maximum safety conditions and to avoid any dangerous situation and accident, the operator must follow the operating instructions and regulations listed below.

Additional risks relevant to Chapter 5 "Machine handling and transport".

-  - Machine transport and handling operations must be carried out with personnel wearing proper safety footwear.
-  - Machine transport and handling operations must be carried out with personnel wearing proper safety gloves.
-  - Machine transport and handling operations must be carried out with personnel wearing proper safety helmets.
- Lift the machine only by means of a crane or a forklift truck.**
- Only skilled operators can lift the machine.
- Make sure that the machine weight is well balanced on the forklift truck or transpallet to avoid any sort of dangerous oscillations.
- If a crane is used to lift the case, no foreign operator must stay or pass in the handling area while the operators responsible for the machine transport will have to keep at a suitable distance not to be intercepted by the machine.
- Never make sudden manoeuvres while lifting and handling the machine so that it cannot intercept any people or object present in the handling area.**

Additional risks relevant to Chapter 9 "MACHINE USE".

- If the machine must be disarmed immediately for any reason whatsoever, **turn the main switch to the OFF position.**
- During the machine functioning, it is strictly forbidden to remove the safety devices assembled by the builder on the machine in order to protect the operator while performing his tasks.
- Only skilled and qualified operators can use the machine.**
- Never leave the machine unattended.
-  - The use of a safety face mask is obligatory when operating the machine.
-  - The use of safety gloves is obligatory when operating the machine.
-  - The use of ear muffs or ear plugs is obligatory when operating the machine.

Machine description

2.2 Safety devices

The following safety devices have been assembled on the machine, in order to protect the operator from any possible accident caused by the contact with moving mechanical parts, machine hot parts and components or electric wires:

REFERENCE:	DESCRIPTION:
1	Fixed safety panel at the front of the machine.
2	Fixed safety panel at the rear of the machine.

Picture A chapter 2.2

Series
EC 76



1



2

Machine description

Picture B chapter 2.2

Series
EC 72

1



2

⚠ Warning ⚠

- The builder has provided the machine with safety devices to protect the operator while performing his tasks. During the machine functioning, the safety devices must never be removed for any reason at all. The operators, although skilled, must comply with the instructions and the warnings contained in this handbook.

Machine description

2.3 Warning about the additional risks

The following warning plates are applied to the machine:



- a warning label relative to the risk of electrocution;



- a warning label relative to the danger of heat - steam emissions;



- a warning label relative to the danger of the tank under pressure;



- a warning label relative to the danger of automatic start-up;



- a warning label prohibiting personnel from touching equipment under voltage;



- a warning label prohibiting personnel from using water to put out fires on electrical equipment;



- a warning label stating that it is forbidden to modify operating parameters;



- a warning label relative to the danger of inhaling dust;



- a warning label obligating the operator to consult the operating manual before using the machine;



- a warning label obligating the operator to check the efficiency of the safety protection measures before starting up the machine;



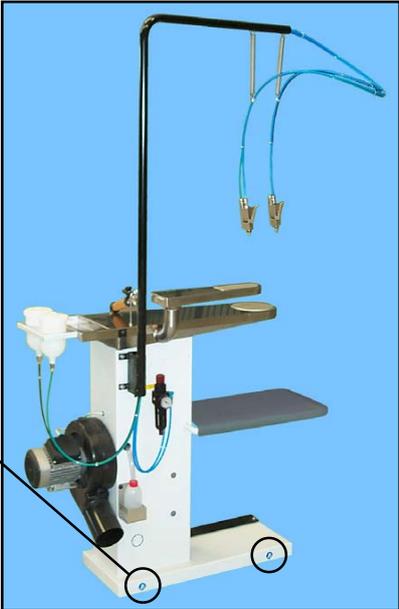
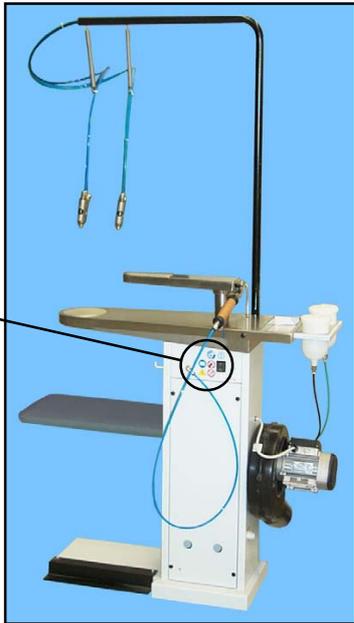
- two warning labels indicating the lift truck's fork points;



- a warning label obligating the operator to check the efficiency of the safety protection measures before starting up the machine;

Machine description

Picture chapter 2.3



Warning

- The warning labels relating to residual risks must not be removed or damaged for any reason.

Technical features of the machine

TECHNICAL SPECIFICATIONS FOR STAIN REMOVAL TABLE EC 76									
PARAMETER		DESCRIPTION							
		EC 76.A	EC 76.B	EC 76.C	EC 76.D	EC 76.E	EC 76.F	EC 76.G	EC 76.H
Supply voltage	V Hz	230/1 50Hz	400/3 50Hz	230/1 50Hz	400/3 50Hz	230/1 50Hz	400/3 50Hz	230/1 50Hz	400/3 50Hz
Suction unit power	Kw	0,37							
Steam intake	∅	-		3/8"		-		3/8"	
Air intake	∅	1/4"	-	1/4"	-	1/4"	-	1/4"	-
Condensation discharge	∅	-		3/8"		-		3/8"	
Air discharge	∅	100							
Steam pressure	bar	-		4,5		-		4,5	
Air pressure	bar	10							
Net weight	Kg	40	83	46	89	44	87	50	93
Gross weight	Kg	55	98	61	104	59	102	65	108
MACHINE DIMENSIONS									
Machine dimensions L x P x H	mm	1280 x 630 x 1900							
Packing dimensions L x P x H	mm	1320 x 680 x 1120							
Different voltage and frequency specifications on request.									

Technical features of the machine

TECHNICAL SPECIFICATIONS FOR STAIN REMOVAL TABLE EC 72

PARAMETER		DESCRIPTION		
		EC 72.00	EC 72.01	EC 72.02
Supply voltage	V Hz	230/1 50Hz		
Suction unit power	Kw	-	0,37	
Steam intake	∅	3/8"		-
Air intake	∅	1/4"		
Condensation discharge	∅	3/8"		-
Air discharge	∅	1-1/4" mm	100	
Steam pressure	bar	4,5		-
Air pressure	bar	10		
Net weight	Kg	33	38	37
Gross weight	Kg	43	48	47

MACHINE DIMENSIONS

Machine dimensions L x P x H	mm	1100 x 350 x 970		
Packing dimensions L x P x H	mm	1130 x 470 x 1080		

Different voltage and frequency specifications on request.

Technical features of the machine

3.1 Machine EC plate

A metal plate indicating the name and address of the Manufacturer, the machine model, serial number and the EC mark is applied to the machine.

Allowed and forbidden use

Stain removal table with work surface suction chamber in stainless steel.

Any use of the machine other than the one for which it has been built represents an anomalous condition that can damage the working means and injure the operator.

4.1 Counter-indications and dangers deriving from a forbidden use

- The machine has not been built to work in a place with deflagration risks. **It is therefore absolutely forbidden to use the machine in an atmosphere with explosion risks.**
- For any forbidden use of the machine, **the User must contact the Builder about any possible counter- indications or dangers deriving from the machine misuse.**
- For any modification to be made to the machine once it has left its building site, **the User must contact the Builder about any risks the modifications could entail and about their compliance with the Legislation in force.**
- **Any modification brought to the machine by the buyer or user will immediately void the certification of conformity.**

Handling and transport of the machine

 **Warnings** 

- Machine transport and handling operations must be carried out with personnel wearing proper safety footwear.



- Machine transport and handling operations must be carried out with personnel wearing proper safety gloves.



- Machine transport and handling operations must be carried out with personnel wearing proper safety helmets.

When delivered, the machine is usually packed in cartons on pallets.

After unpacking it, check that the machine is undamaged and that it corresponds to the one you had ordered. Make sure that no loosen parts have been left in the packing and inspect the machine for possible damages suffered during the shipment.

In case damages are found, immediately contact both the forwarding agent and the Builder.

Do not leave the packing components (cardboard, wood, staples, plastic bags, polyethylene sheets, etc..) in the environment. They must be collected and delivered to the competent organs.

Lifting and handling operations on the machine while in its packing can be carried out using a fork lift truck or crane. The machine can be lifted and handled by means of a crane or forklift truck. The machine must be moved inside the industrial area by means of a forklift truck.

This entails the presence of two skilled operators, one of them checking that the way is free from any obstacles.

Picture A chapter 5

Trasporting box
with lift truckLifting box
with crane

Handling and transport of the machine

Picture B chapter 5

**⚠ Warnings ⚠**

- Use only a crane to lift the machine, since it is not perfectly balanced.
- Lift the machine only by means of steel cables or bands duly dimensioned according to the machine weight.
- Lift the machine by means of safety hooks.
- **No foreign operator must stay or pass in the handling area while the operators responsible for the machine transport will have to keep at a suitable distance to avoid being intercepted by the machine.**
- Never make sudden manoeuvres while lifting and handling the machine so that it cannot intercept any people or object present in the handling area.
- An operator staying outside the handling area will have to follow all the handling activities and signal any possible obstacle the crane operator cannot see.
- The Manufacturer recommends, especially for transport by sea, protecting the machine's various parts with antirust lubricants, and inserting packets of hygroscopic salts in the packing, so as to protect the machine from humidity.
- Once positioned on the truck (or any transport mean) the machine must be braced by ropes, steel cables or wooden wedged duly dimensioned according to the machine weight.

Machine installation

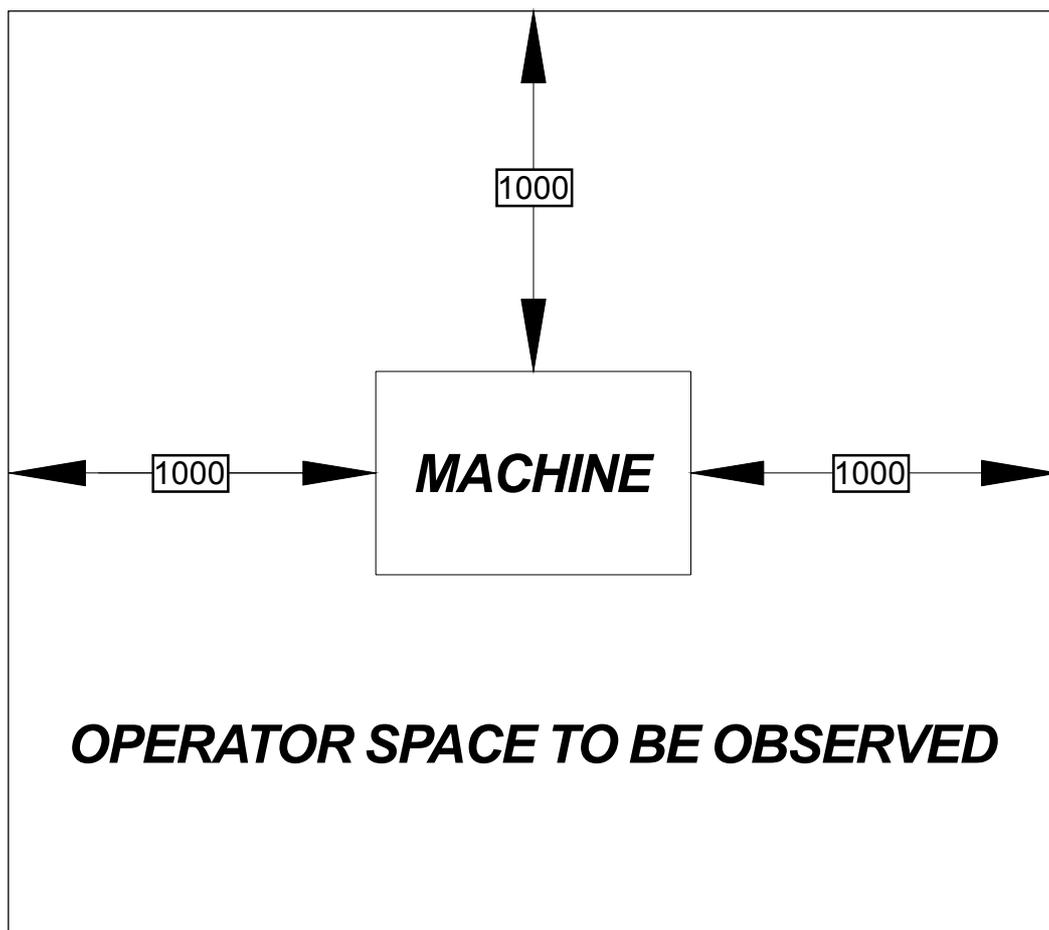
⚠ Warnings ⚠

- *The machine must be installed in a place where the best hygrothermometrical conditions are observed for the safety of the operator in order to reduce the possibility of fatigue to the minimum and to allow the operator to work in the maximum safety conditions.*
- *The machine installation area will have to be well ventilated and free from explosive gases.*
- *The temperature of the machine installation area will have to range between 10 and 35°C.*

6.1 Free spaces to be observed

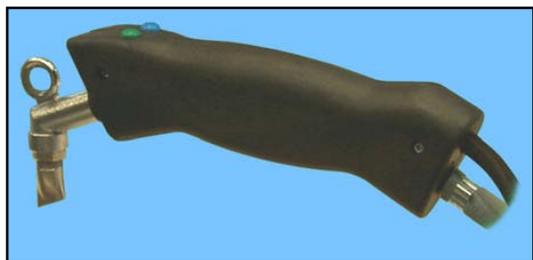
For a safe and correct use and an easy maintenance of the machine, it is advisable to install it in such a position that observes the minimum distances, expressed in millimetres, from the walls or big obstacles shown in the picture below.

Picture chapter 6.1



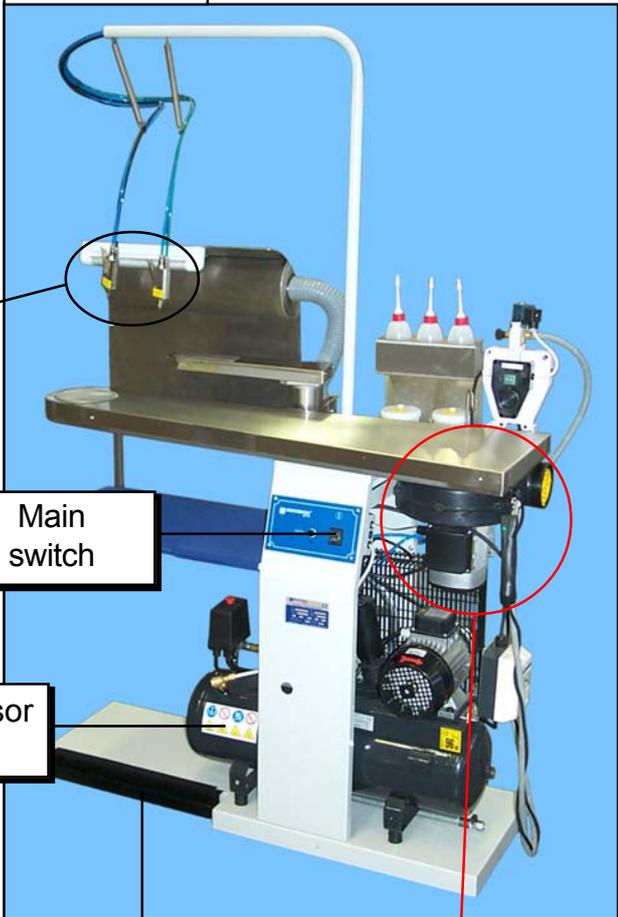
Machine installation

6.2 Front of machine with main reference points



Air - steam
gun

Series
EC 76



Stain removal
guns

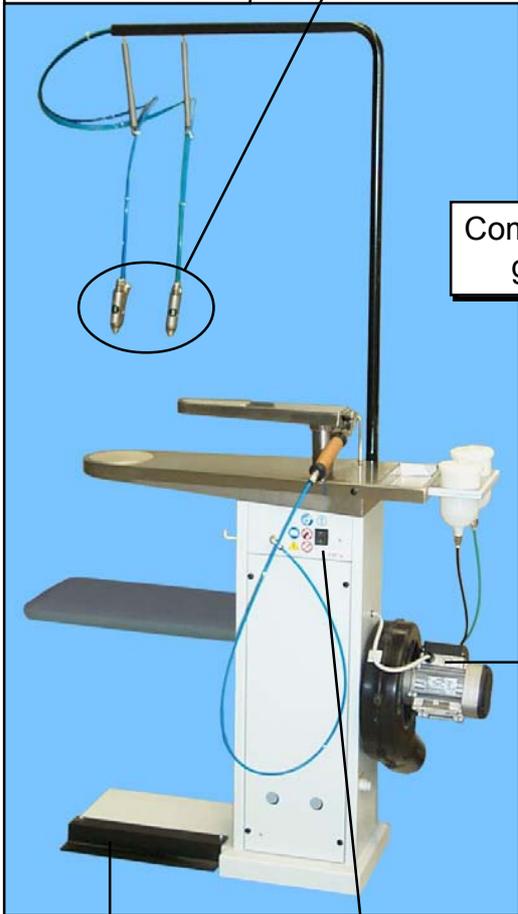
Main
switch

Compressor
group

Control
pedal

Vacuum unit

Series
EC 72



Vacuum unit

Control
pedal

Power
switch



Air gun
with lever

Machine installation

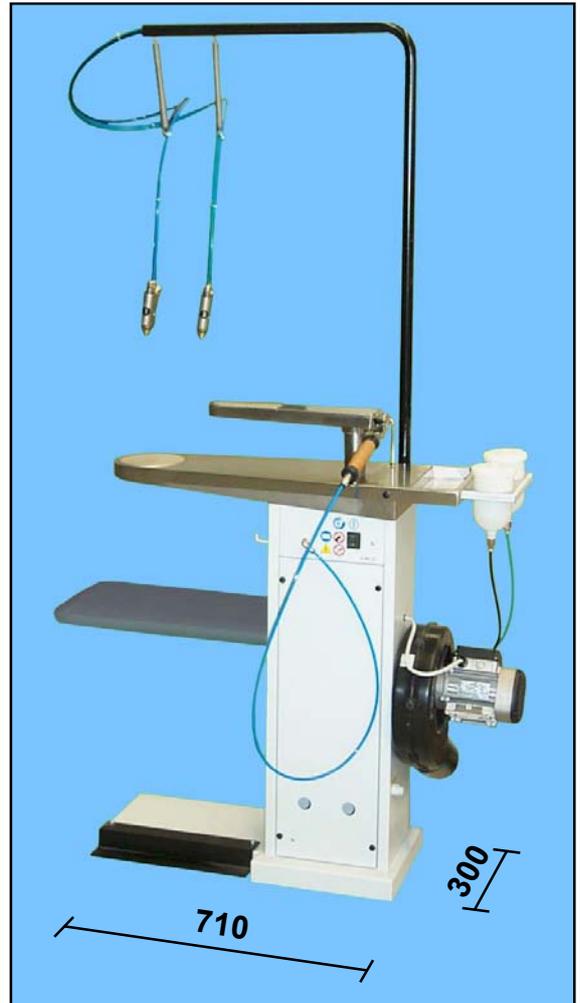
6.3 Machine base structure

The machine's base structure, expressed in millimeters, is indicated in the figure.

Picture chapter 6.3



Series
EC 76



Series
EC 72

Assembly and preparation of the machine

7.1 Preparation of the machine for its use

Upon receipt of the machine in the user's factory, follow the instructions described below for its correct positioning:

- Unpack the machine and remove its protection wrapping.
- Lift the machine according to the instructions and warnings described in Chapter 5 "Handling and transport of the machine".
- Install the machine in the desired place.

7.2 Assembly of the machine accessories

The machine is completely assembled in the User's factory.

7.3 Preventive checks and controls

Upon receipt of the machine, it is advisable to:

- Check if all the parts composing the machine have been delivered to the User's factory,
- carry out a series of preventive checks and controls as described below.

7.3.1 Check of the damages caused to the machine during its transportation

In order to exactly evaluate the possible damages caused to the machine during its transportation, it is advisable to check the integrity of the following machine parts. In particular:

- check that the electrical controls on board the machine have not suffered any damage;
- check that the main switch is undamaged.

Carefully check if the protective wrapping is visibly torn.

7.4 Cleaning and lubrication of the machine

Carefully clean the machine upon its arrival at the User's factory and remove the dust, the foreign and dirtying substances that may have deposited on the machine during its transportation. Grease all the mechanical parts exposed to dust, especially in case of sea transport.



Warning

- *Once the machine reaches the User's factory, it must be cleaned wearing special protective gloves.*

Assembly and preparation of the machine

7.5 Connection to the external power sources

⚠ Warning ⚠

- Only skilled operators can carry out the machine connection to the external power sources.

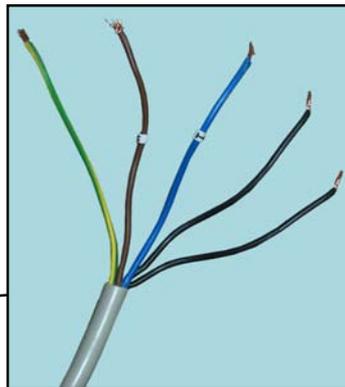
7.5.1 Power connection

The power cable supplied with the machine is not plugged by the Builder. It must be connected to the main supply line after checking that the voltage and the power supply frequency of the motors and electric components correspond to the voltage and power supply frequency available in the User's factory. The machine has been built to work at a voltage of 230/400V - 50Hz.

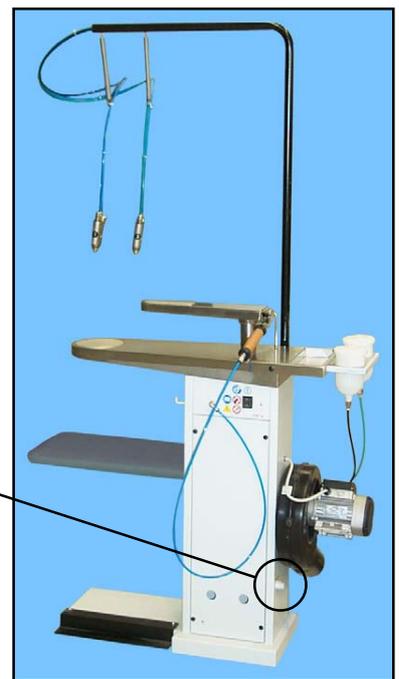
Picture chapter 7.5.1



Series
EC 76



Unplugged
cable



Series
EC 72

⚠ Warnings ⚠

- Check that the User power supply voltage corresponds to the one indicated on the machine rating. On the contrary, contact the Builder.*
- In compliance with the regulations in force, the User will have to provide the machine with safety devices, to avoid short-circuits, and overloads, in order to protect the machine power supply line.*
- Only qualified engineers can connect the machine to the power sources according to the regulations in force.*

Assembly and preparation of the machine

7.5.2 Compressed air connection

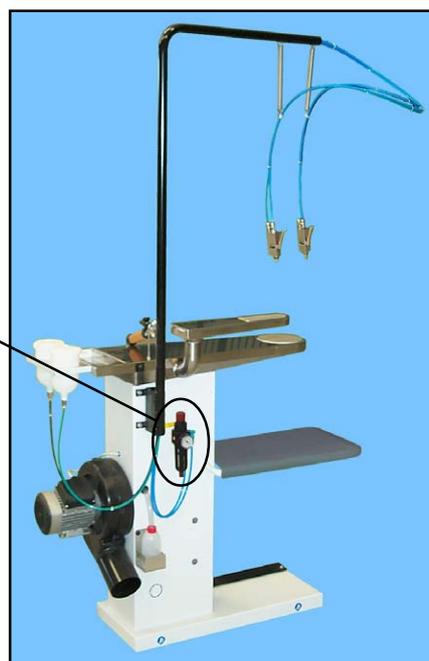
To carry out the compressed air connection (only for stain removal models with no compressor group), it is necessary to connect the pneumatic power line to the connector situated on the filter-reducer group, located at the rear of the machine.

The pressure for the pneumatic system must be set at 10 bar.

Picture chapter 7.5.2



Filter-reducer

**⚠ Warnings ⚠**

- The supply pressure must be 10 bar.

- During installation, avoid any eventual impurities, such as chips, calcium scales, etc. or other materials getting into the compressed air line, which could cause malfunctions and damage.

Assembly and preparation of the machine

7.5.3 Steam connection

To carry out the steam connection (only for stain removal models with no air-steam gun) it is necessary to connect the two 3/8" input/output tubes from the generator to the connections situated at the rear of the machine. The steam operating pressure must be set at 4.5 bar.

Picture chapter 7.5.3

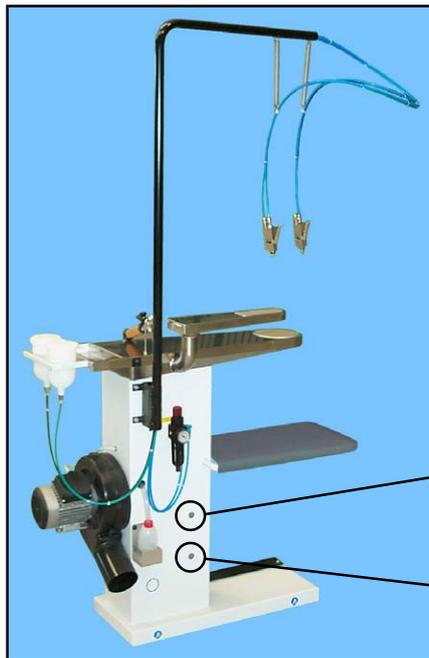
Series
EC 76



Steam
input

Condensation
return

Series
EC 72



Steam input

Condensation
return

⚠ Warning ⚠

- The steam working pressure must be 4,5 bar.

Assembly and preparation of the machine

7.5.4 Air discharge

For the air discharge, it is necessary to connect a \varnothing 100mm fitting (see figure chap. 7.5.4).
If the discharge proves to be troublesome, it can be routed outside by means of a rigid or flexible \varnothing 100mm plastic tubing.

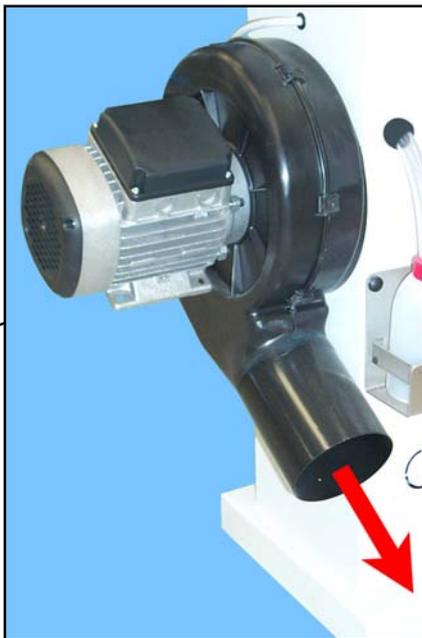
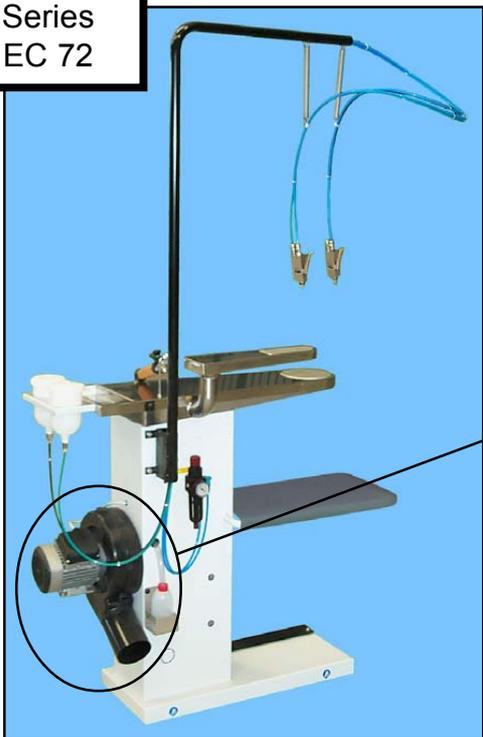
Picture chapter 7.5.4

**Series
EC 76**



Air exhaust

**Series
EC 72**



Air exhaust

Assembly and preparation of the machine

7.6 Checks and adjustments

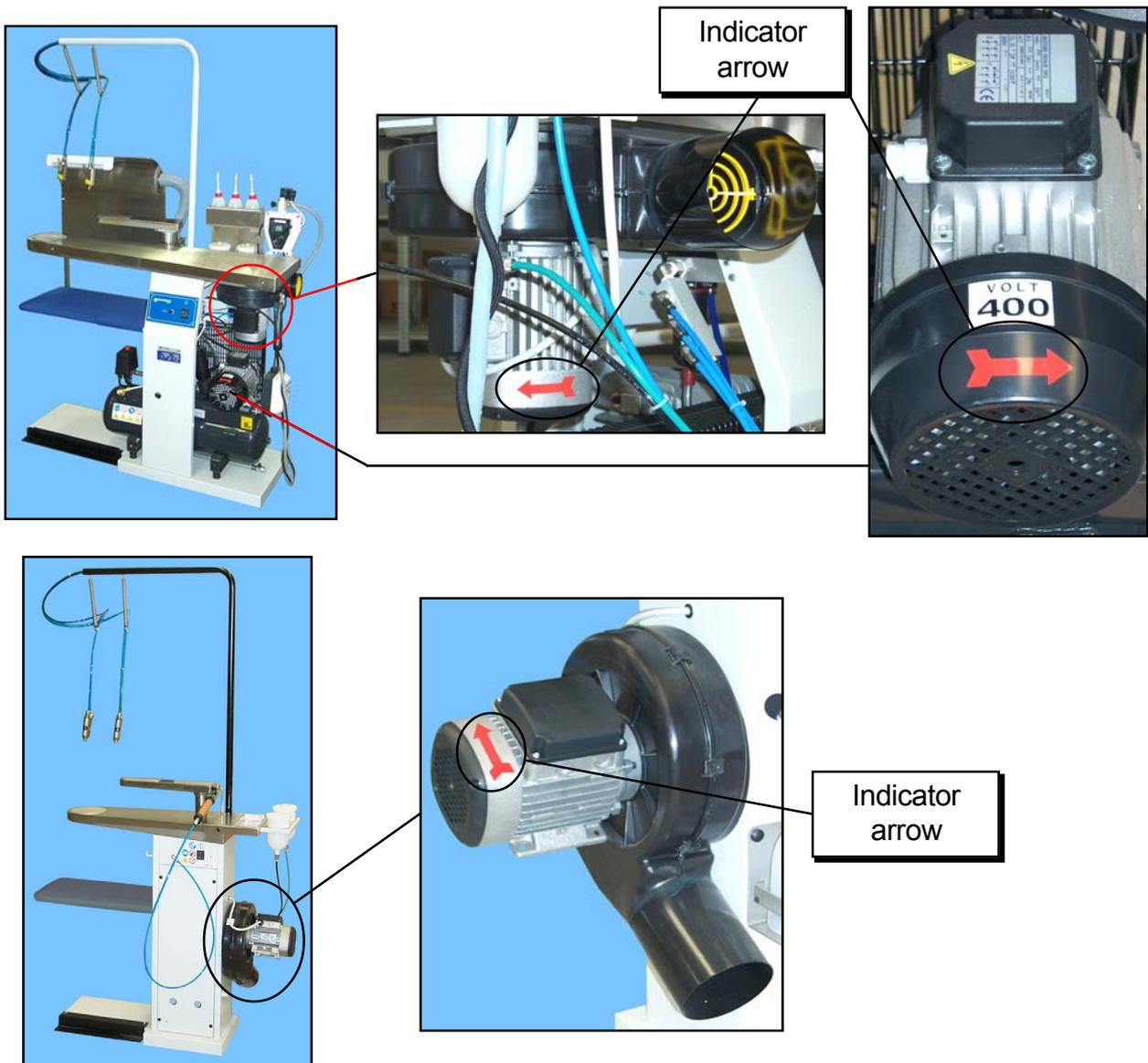
⚠ Warnings ⚠

- For any adjustment, timing or replacement intervention not described in this handbook, contact the Builder or the Dealer qualified personnel.
- It is possible to make various adjustments to adapt the machine to the various production needs.

7.6.1 Checking the direction of rotation of the motors

On starting up the machine, it is necessary to check the direction of rotation of the suction unit and compressor group motor (if present), as indicated by the arrow situated on the motor. If the direction of rotation do not correspond to the direction indicated by the arrow, consult the manufacturer.

Picture chapter 7.6.1



Assembly and preparation of the machine

7.6.2 Setting the air pressure

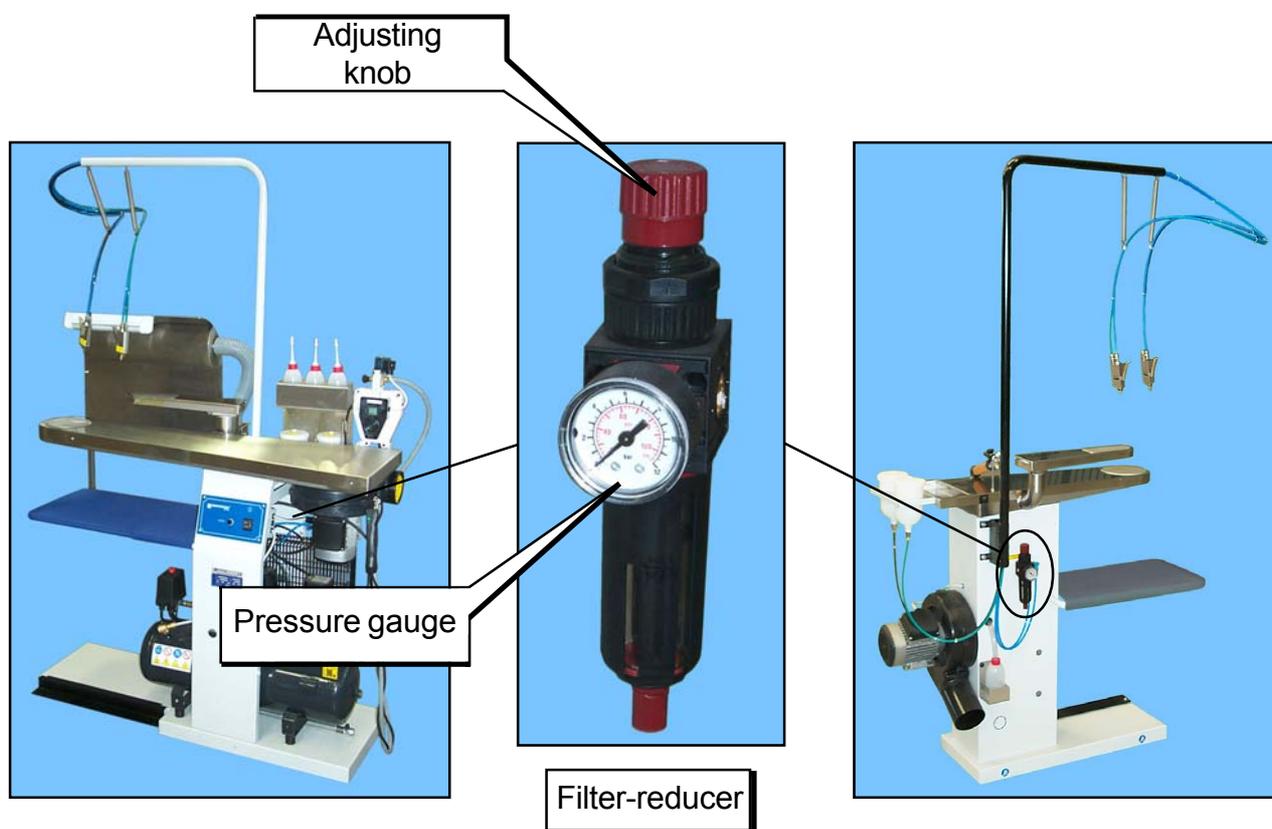
Set the air pressure (only for stain removal models with no compressor group) by means of the filter-reducer group, situated at the rear of the machine.

Proceed as follows:

- Pull the adjusting knob upwards
- Enter the pressure value
- Pull down the adjusting knob.

Enter the value indicated on the pressure gauge on 10 bar.

Picture chapter 7.6.2



- The supply pressure must be 10 bar.

Machine start

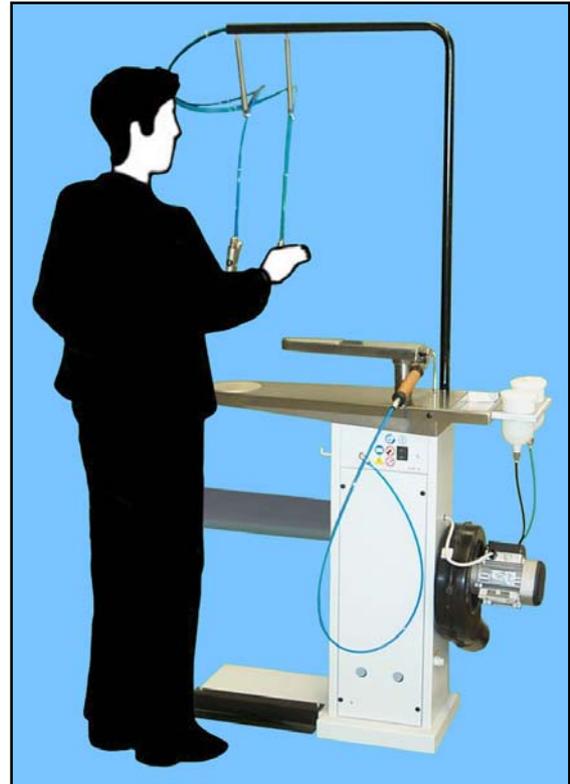
8.1 Operator work and control station

The machine's work and control station is situated next to the control pedals, and is to be occupied by just one operator.

Picture chapter 8.1



Series
EC 76



Series
EC 72

⚠ Warning ⚠

- To work, the machine requires only one operator. During its functioning no one except for the operator responsible for the machine use can stay near the machine or use it.

Machine start

8.2 Main switch

The main switch, a 2-position selector located at the front side of the machine, powers on the machine when turned to the ON position. Vice versa, if turned to OFF, the machine is de-energised.

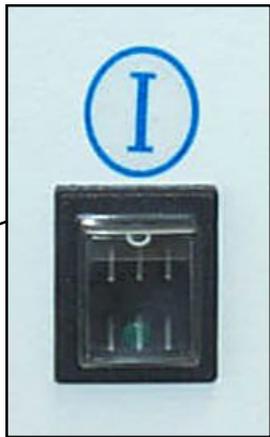
Picture chapter 8.2

Series
EC 76



Main
switch

Series
EC 72



Main
switch

Machine start

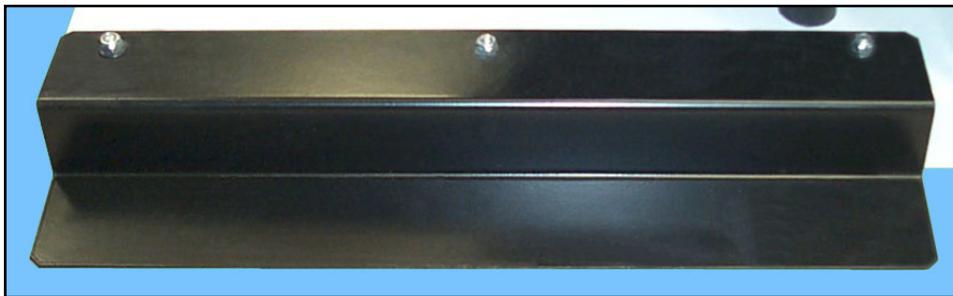
8.3 Command pedals

The following is a description of the various command pedals situated at the lower front end of the machine:

MACHINE WITH 1 PEDAL

REFERENCE	DESCRIPTION
-	SUCTION pedal: press and hold down this pedal to activate the suction on the stain removal surface, from the arm and hood.

Picture A chapter 8.3

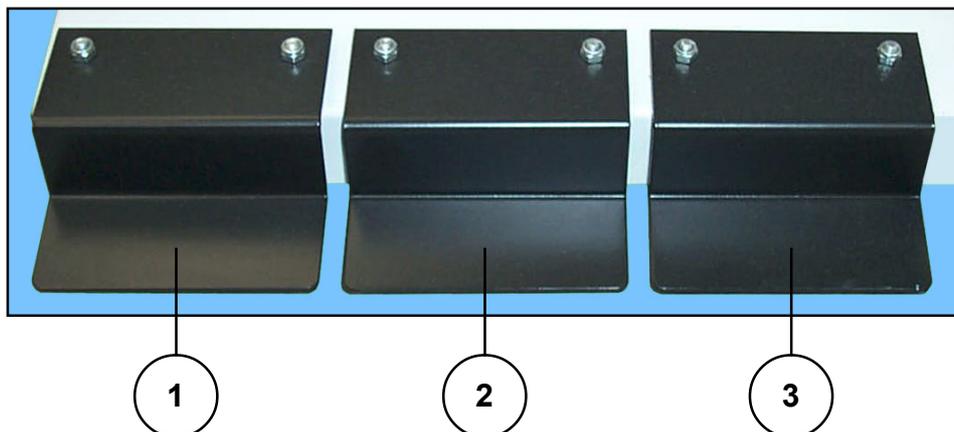


SUCTION
pedal

MACHINE WITH 3 PEDALS

REFERENCE	DESCRIPTION
1	STEAM GUN pedal: press and hold down this pedal to release steam from the steam gun.
2	STEAM pedal: press and hold down this pedal to activate the suction unit on the stain removal surface, from the arm and hood.
3	HOT AIR GUN pedal: press and hold down this pedal to activate the release of hot air from the hot air gun.

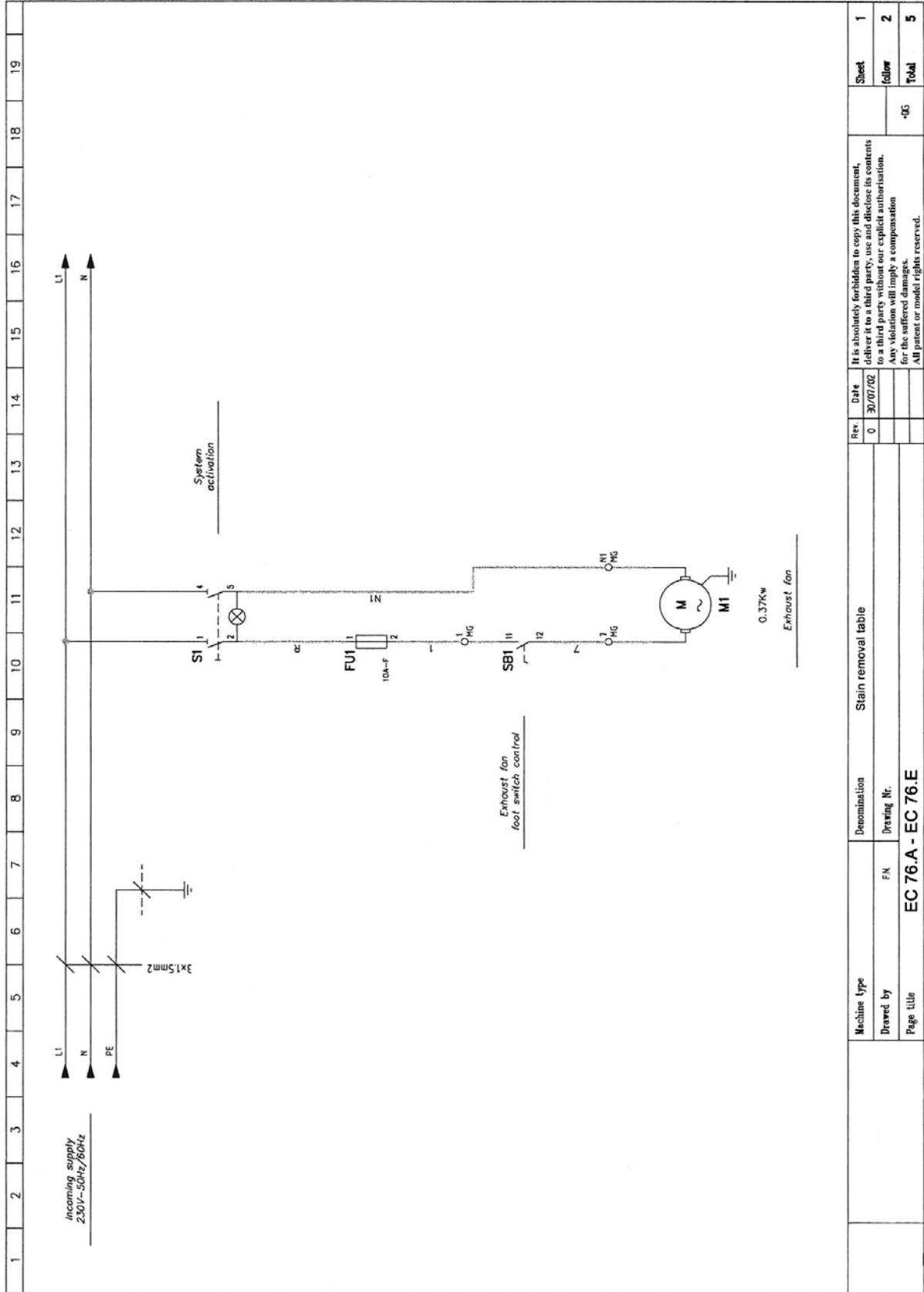
Picture B chapter 8.3



Machine start

8.4 Electrical system diagrams

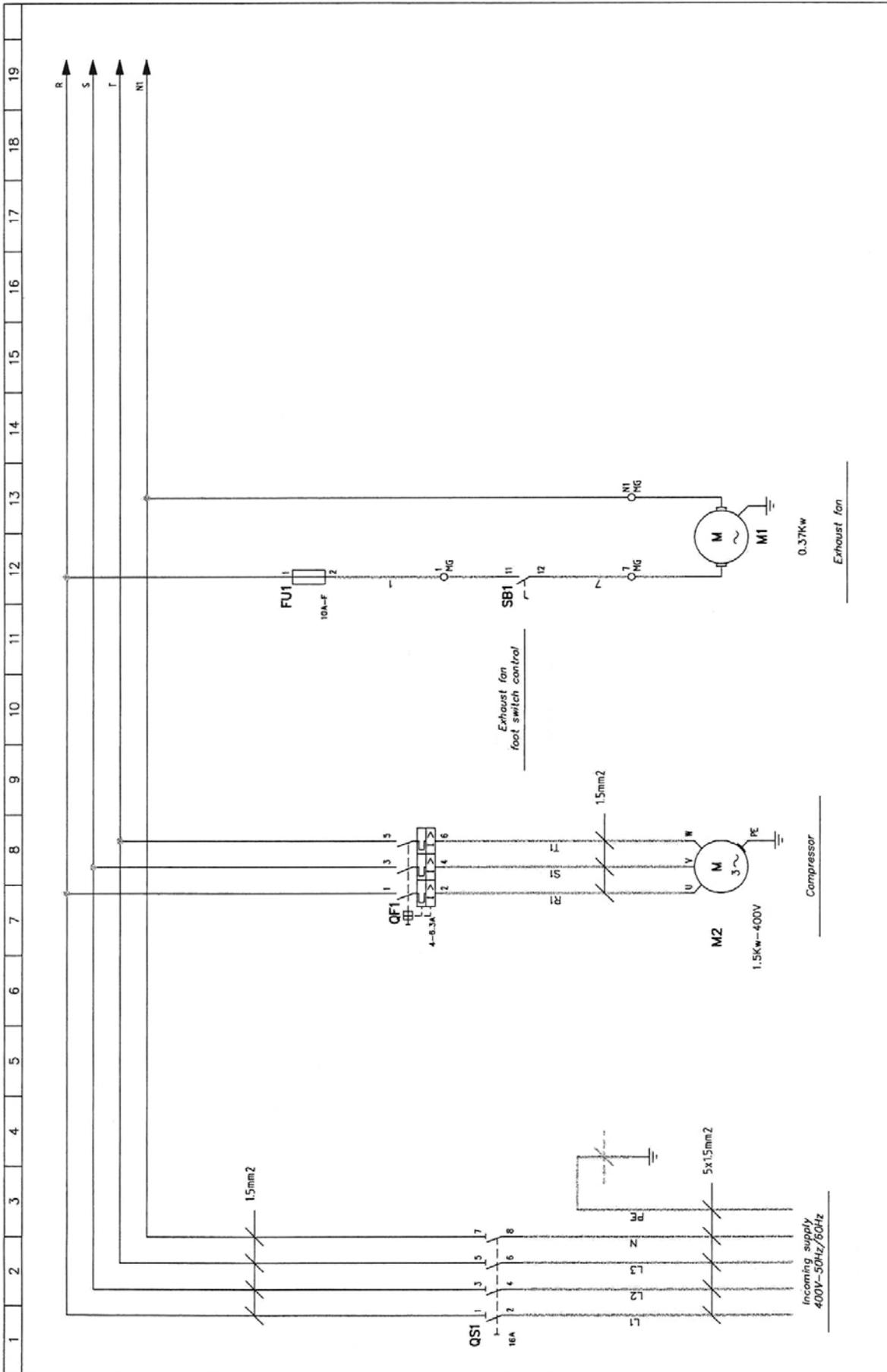
>>> SERIES EC 76 <<<



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Machine type	Denomination	Stain removal table
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Page title	EC 76.A - EC 76.E	

Machine start

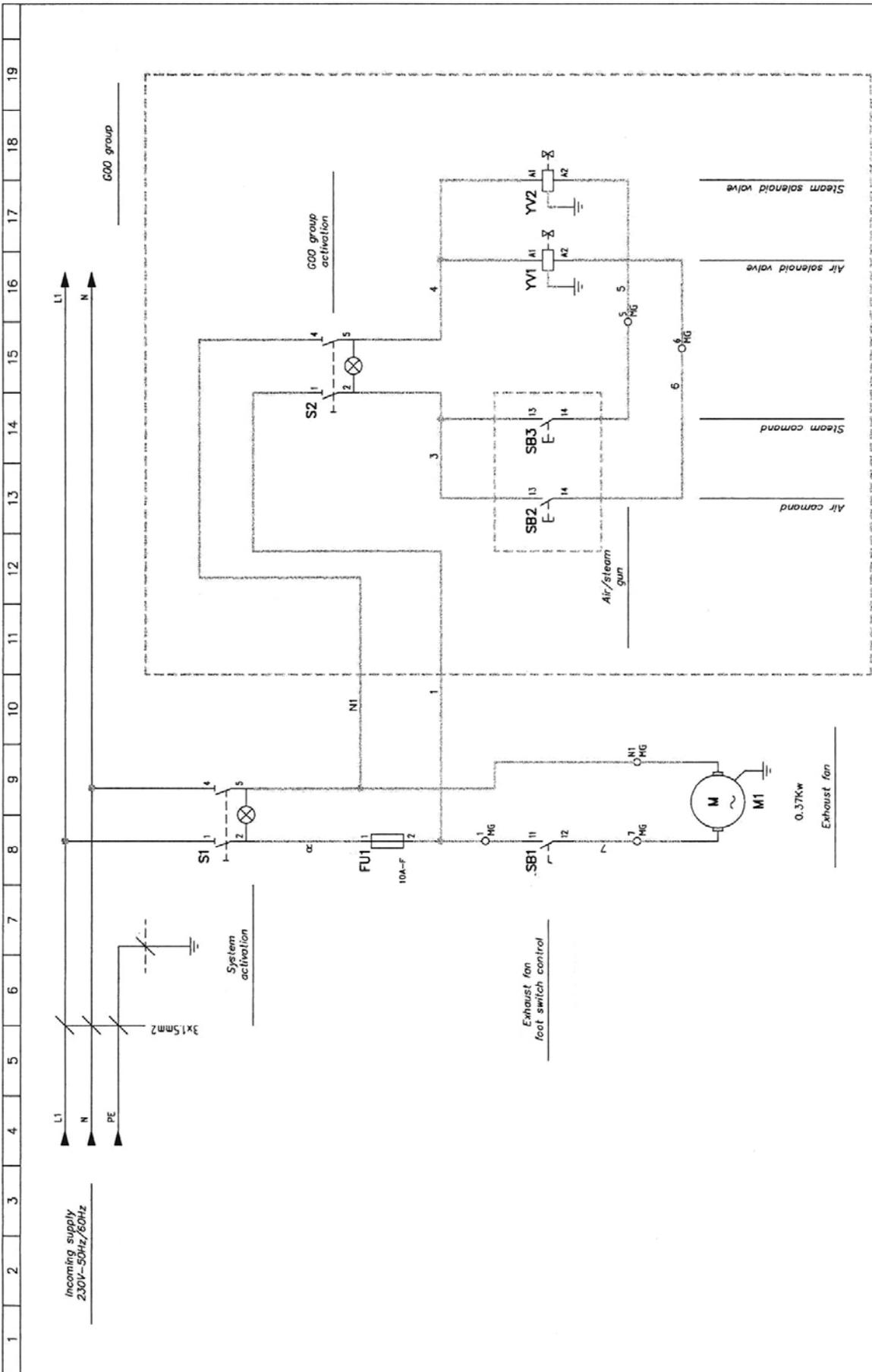


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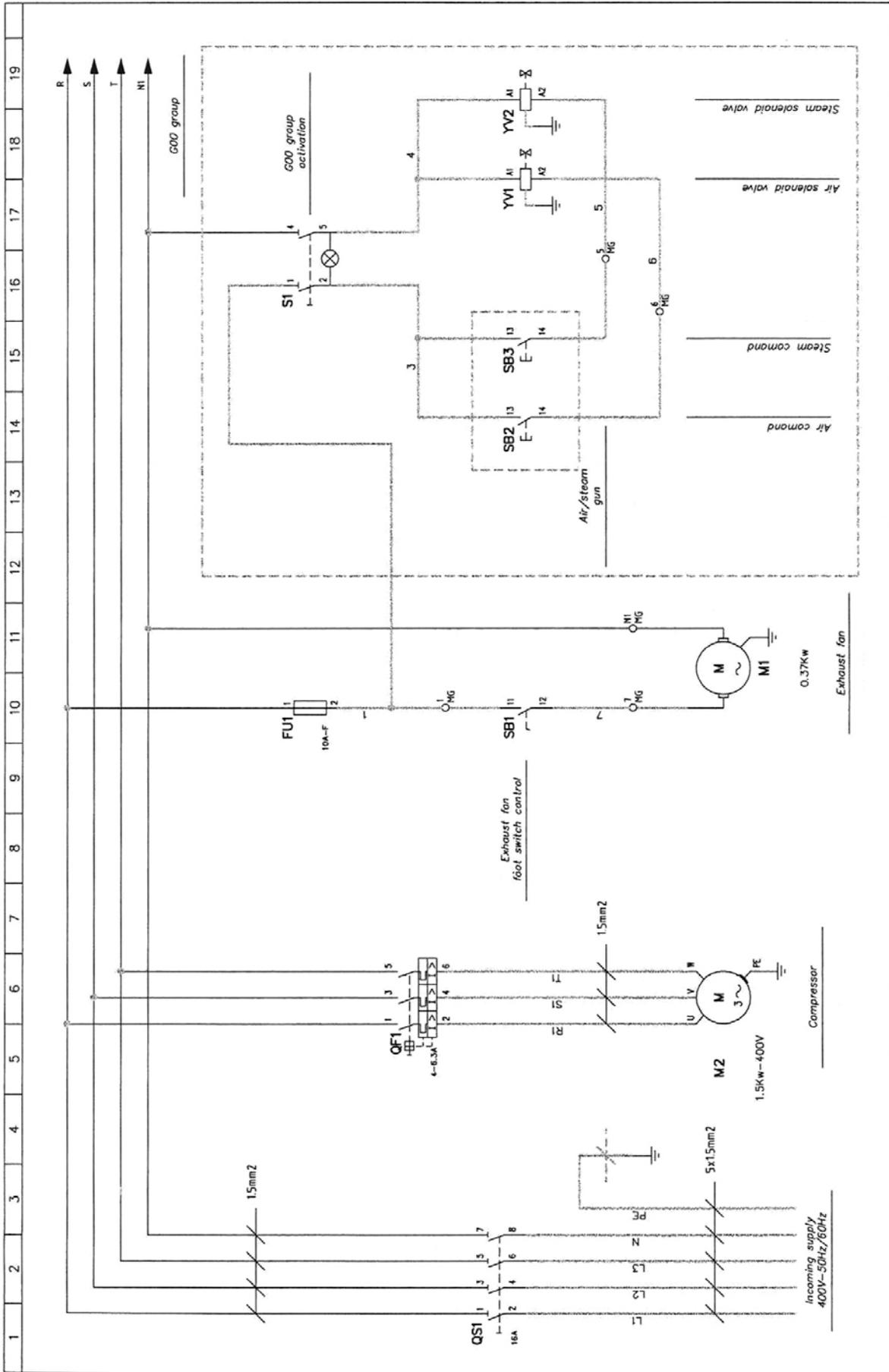
Machine type	Denomination	Stain removal table	Rev.	Date	It is absolutely forbidden to copy this document, deliver it to a third party, use and disclose its contents to a third party without our explicit authorisation. Any violation will imply a compensation for the suffered damages. All patent or model rights reserved.	Sheet
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Machine start



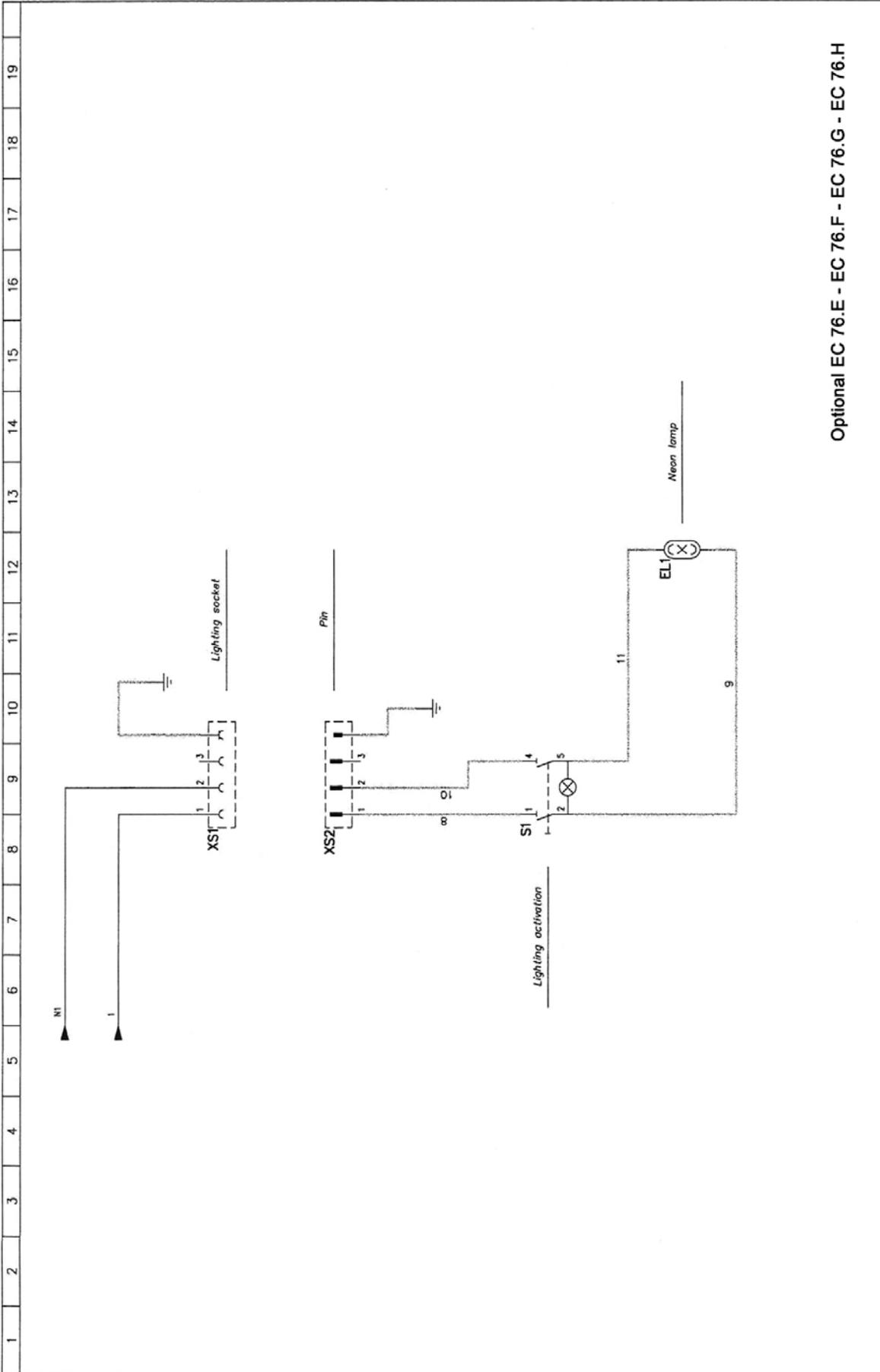
Machine type	Denomination	Stain removal table		Rev.	Date	It is absolutely forbidden to copy this document, deliver it to a third party, use and disclose its contents to a third party without our explicit authorisation. Any violation will imply a compensation for the suffered damages. All patent or model rights reserved.			Sheet	3	
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Machine start



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Machine type		Denomination	Stain removal table	
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Page title		EC 76.D - EC 76.H		

Machine start

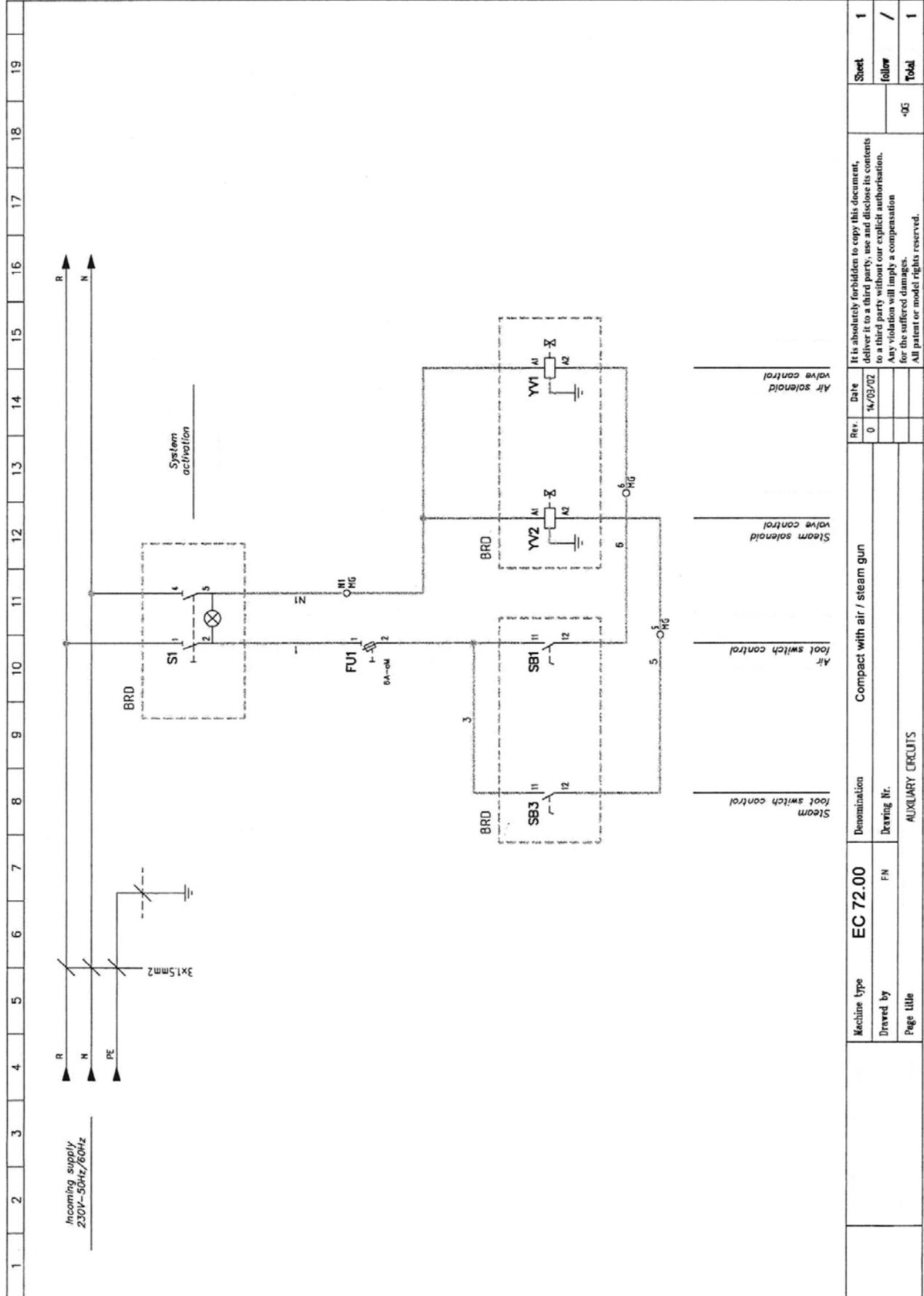


Optional EC 76.E - EC 76.F - EC 76.G - EC 76.H

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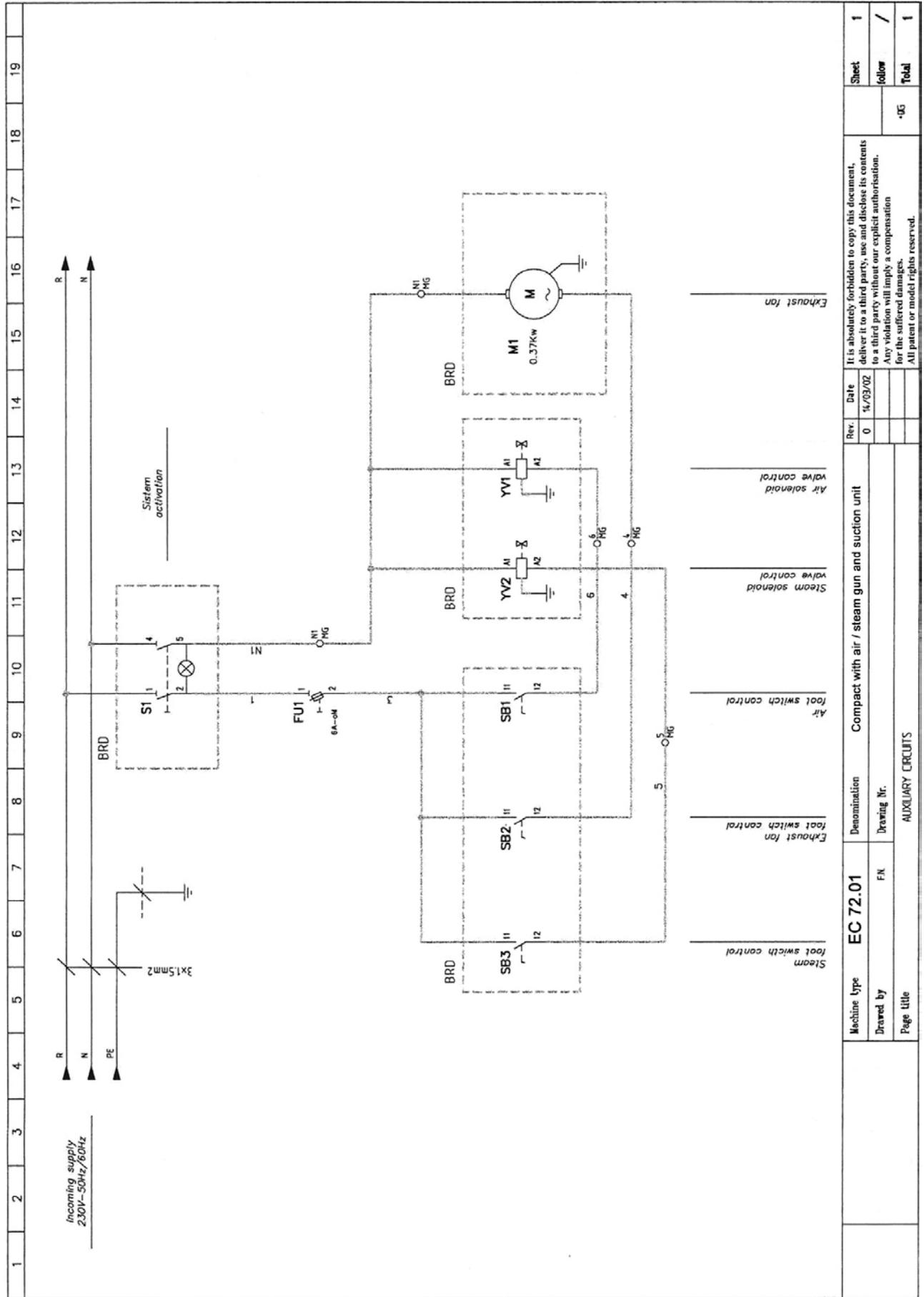
Machine start

>>> SERIES EC 72 <<<



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Machine start



Machine type	EC 72.01	Denomination	Compact with air / steam gun and suction unit	Rev.	0	Date	14/03/02	Sheet	1
Drawn by	FN	Drawing Nr.	AUXILIARY CIRCUITS					follow	/
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Machine use

 **Warnings** 

- *In order to suddenly stop the machine, turn the main switch to OFF.*
- *During the machine functioning, it is strictly forbidden to remove the safety devices assembled by the builder in order to protect the operator while performing his tasks.*
- **Only skilled and qualified operators must use the machine.**
- *Never leave the machine unattended.*



- *The use of a safety face mask is obligatory when operating the machine.*



- *The use of safety gloves is obligatory when operating the machine.*



- *The use of ear muffs or ear plugs is obligatory when operating the machine.*

9.1 Description of start-up sequence

After having made certain that all connections have been properly carried out, including the preventive control checks and settings described in the preceding chapters, start up the machine by proceeding as follows:

- 1) Turn the main switch to the ON position.
- 2) Press the machine's power switch, situated on the control panel at the front.
- 3) To operate the command pedals, refer to par. 8.4 "Command pedals."
- 4) To operate the dispenser guns, refer to par. 9.3 "Using the dispenser guns."
- 5) To operate the dryer gun, refer to par. 9.4 "Using the dryer gun."
- 6) To operate the steam/air gun, refer to par. 9.5 "Using the steam/air stain removal gun."
- 7) Refer also to par. 9.6 "Norms for stain removal".

Having carried out these operations, stain removal can begin.

9.2 Machine stop

At the end of the work shift, stop the machine in the following way:

- 1) Turn the main switch to OFF.
- 2) Disconnect the machine.

Machine use

9.3 Using the dispenser guns

This machine is equipped with two dispenser guns, situated at the front end of the machine. These guns are connected to two small loading containers containing the liquids for removing stains. Fill the containers by unscrewing the cover of each container. The machine is also equipped with 6 specific product distributors for stain removal, to be used with the special dropper unit.

WATER DISPENSER GUN (1):

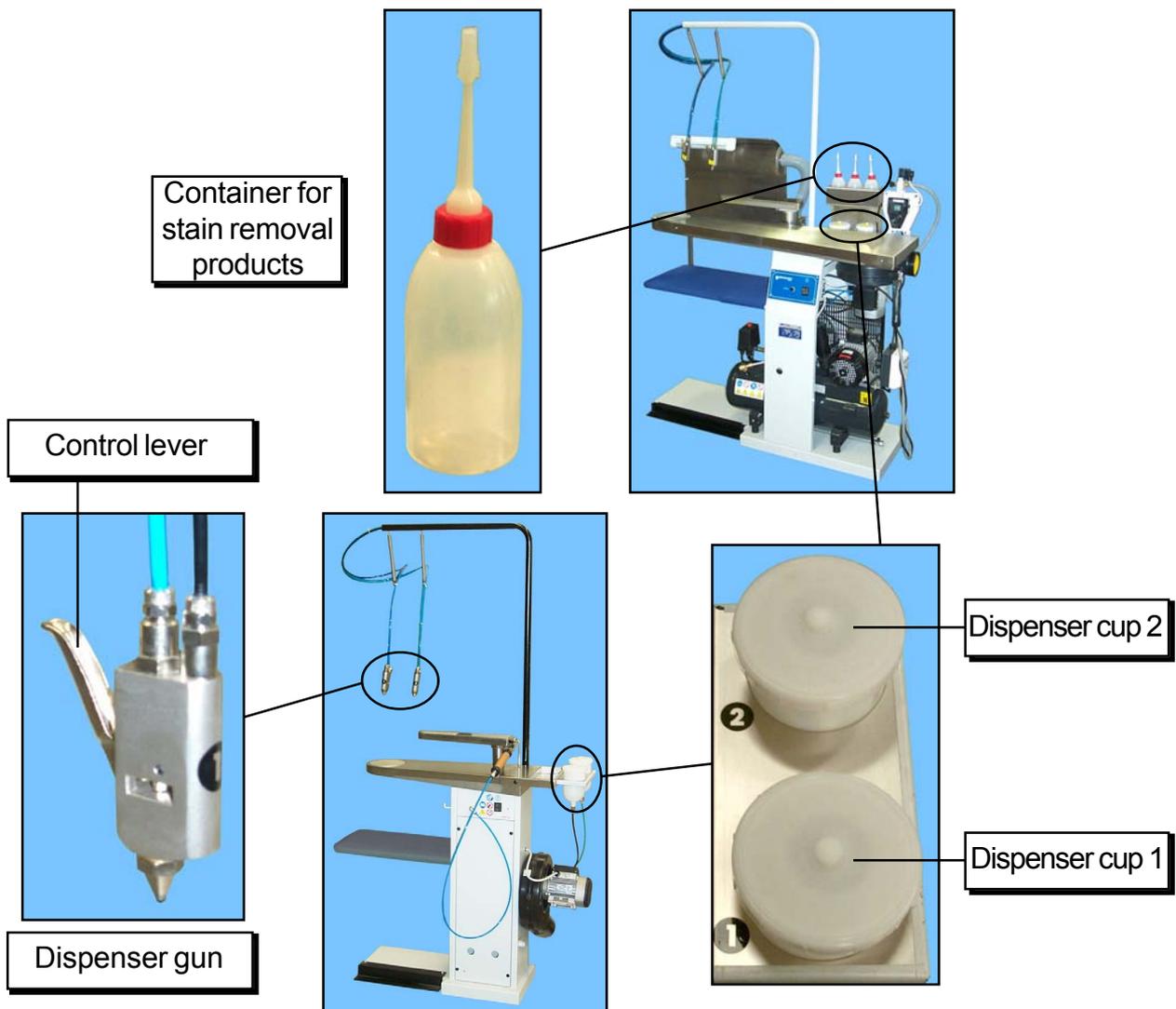
This dispenser gun is used to eliminate non-greasy stains. It is connected to the dispenser cup n°1 (see figure chap. 9.3); use the command lever to firstly dispense only compressed air, followed by sprayed water.

SOLVENT DISPENSER GUN (2):

This dispenser gun is used to eliminate greasy stains. It is connected to the dispenser cup n°2 (see figure chap. 9.3); use the command lever to dispense the solvent.

N.B: the use of this gun is regulated by specific laws regarding toxic emissions (the use of active carbon filters on suction discharge and choice of non-toxic solvents). It is therefore obligatory to wear a safety face mask when using this device.

Picture chapter 9.3



Machine use

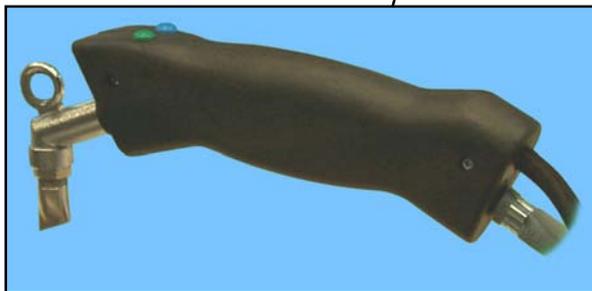
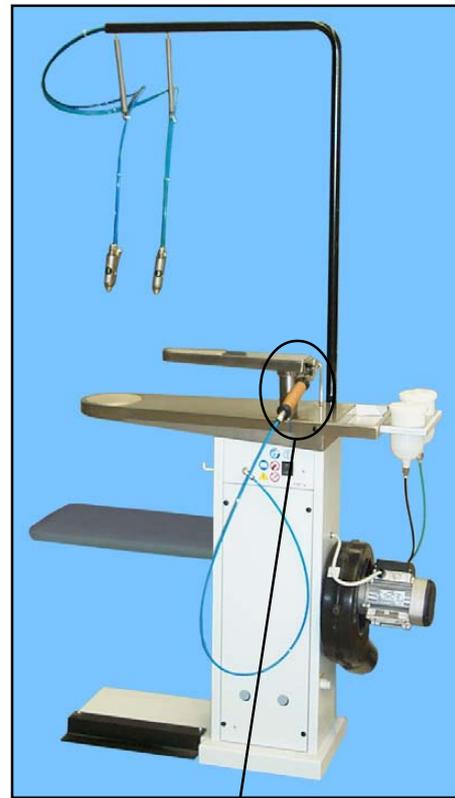
9.4 Using the dryer gun

The dryer gun is powered by compressed air, and is used to complete the removal of residue from stains, and especially to dry the wet area. Use the lever to dispense a regular flow of compressed air. The air dosage is obtained by pressing the lever to a lesser or greater degree, and distancing the jet of air from the fabric as required.

9.5 Using the steam / air stain removal gun

The steam / air gun is used for stain removal operations using heat. It dispenses compressed air or steam. In addition, it is equipped with two buttons instead of a mechanical lever.

Picture chapters 9.4 - 9.5



Steam - air
gun



Dryer
gun

Machine use

9.6 Norms for stain removal

1)

COLD STAIN REMOVAL: the dispenser guns (see par. 9.3) are used for this type of stain removal operation. Cover the stain with sprayed liquid (water) from a distance of approx. 5 mm. Spray over the stain using a rotary movement, starting from the sides and converging towards the center of the stain. Special stains are treated with specific stain removing products (specific containers) and rinsed with water. To facilitate the drying process, it is recommended to use the least possible quantity of solvent.

2)

HOT STAIN REMOVAL: this type of stain removal operation requires specific knowledge on the effects of steam on the fabric. This operation is to be carried out by specialized personnel only, and only in cases in which the cold stain removal system proves to be inefficient. In these cases, the steam / air gun is employed (see par. 9.5).

3)

DRYING THE CLEANED AREA: once the stain has been removed, proceed immediately with drying it, dispensing compressed air using the dryer gun (see par. 9.4), while maintaining the nozzle in contact with the fabric to be dried. Move the dryer gun over the wet area from one end to the other.

4)

SUCTION: the suction over the stain removal area, in addition to eliminating the bits of material (water, solvent, specific stain removal products, disintegrated components from the stain, etc.), also serves to anchor and lay out the fabric to be treated over the machine's work surface. The suction is controlled by the control pedal situated at the lower front end of the machine (see par. 8.4).

Maintenance and servicing

⚠ Warnings ⚠

- *A good maintenance is a determining factor for a longer life of the machine in the best functioning and performance conditions in order to assure the safety conditions provided by the builder.*
- *Before any maintenance or replacement activity, remember to:*
 - **stop the machine (MAIN SWITCH turned to OFF);**
 - **unplug it.**
- *Only skilled operators, familiar with the technology used on the machine can carry out all the maintenance, replacement or servicing activities described in this handbook.*

10.1 Precautions for the machine maintenance

Before any maintenance activity, it is necessary to:

- De-energise the machine and disconnect it.
- Apply a panel warning that the machine maintenance is underway.

10.2 Maintenance interventions

A good maintenance is a determining factor for a longer life of the machine in the best functioning and performance conditions in order to assure the safety conditions provided by the Builder.

ROUTINE MAINTENANCE TABLE		
OPERATION	MACHINE PART	PERIODICITY
Discharging condensation	Air compressor	Weekly
Checking the oil level		Every 500 hrs
Visual control	Machinery	Every week
	Electric parts	
Cleaning	Internal	Daily
	General	Weekly
Lubrication	Moving parts	Daily

Maintenance and servicing

10.2.1 Discharging condensation from the air compressor

Once a week, it is necessary to discharge condensation from the air compressor, through the special tap shown in figure chap. 10.2.1.

Picture chapter 10.2.1

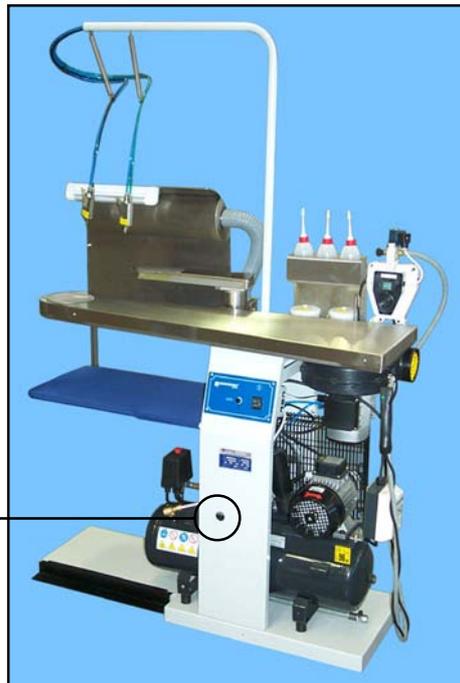


Discharge tap

10.2.2 Checking the compressor oil level

Check the oil level on the air compressor through the special pilot at the front of the machine. The oil must be replaced every 500 operating hours (use ESSO HDX SAE 40 oil).

Picture chapter 10.2.2



Oil level pilot

Maintenance and servicing

10.2.3 Machine visual inspection

In order to assure a correct functioning and prevent troubles, periodical visual inspections of the machine and its moving parts are recommended.
Such inspections must be carried out after de-energising the machine.
Particularly make sure that there are no anomalous contacts between the elements and that the fasteners are not loosened.

10.2.4 Machine general cleaning

Once a week, remove all the dust from the machine using compressed air.
Clean the machine body externally using suitable detergents.



Warning

- Always wear protective gloves when cleaning the machine.

10.3 Machine shutdown

In case of prolonged shutdown:

- Carefully clean the machine;
- replace the damaged parts.

10.3.1 Machine restart after a prolonged shutdown

Before restarting the machine after a prolonged shutdown:

- Let the machine idle for a while and make sure it runs correctly.

10.4 Interventions to be carried out by the builder operators

Please find below a list of the maintenance operations to be performed with a precise technical skill and therefore by the builder qualified operators.

The user must never carry out:

- any intervention on the machine's electric installation;
- any intervention on the machine mechanical parts;
- replace electrical components.



Warning

- For any adjustment, timing or replacement interventions that are not described in this handbook and that turn out to be necessary, please contact the technical staff of the machine reseller or builder.

Maintenance and servicing

10.5 Troubleshooting

Please find below a list of all the possible troubles that may occur on the machine:

PROBLEMS		CAUSES	SOLUTIONS
1	THE COMPRESSOR DOES NOT LOAD AIR	<ul style="list-style-type: none"> - Wrong direction of rotation of motor - Pressure stat 	<ul style="list-style-type: none"> - Invert the phase wires - Check the pressure stat
2	NO SUCTION	<ul style="list-style-type: none"> - Pedal microswitch malfunction - Motor malfunction 	<ul style="list-style-type: none"> - Check pedal microswitch - Check the motor
3	THE STAIN REMOVAL GUN DOES NOT DISPENSE STAIN REMOVING LIQUID	<ul style="list-style-type: none"> - Dispensing cup 1 or 2 empty - Stain removal gun filter dirty - Spray gun malfunction 	<ul style="list-style-type: none"> - Fill the dispensing cups - Clean the filter - Replace the spray gun

Machine dismantling

In compliance with EC laws, or with the regulations in force in the User's Country, the User must arrange for the demolition, disposal and elimination of the different materials composing the machine. In case the machine - or any of its component- must be scrapped, it is necessary to adopt all the safety measures in order to avoid any risks deriving from the dismantling of industrial machinery.

A particular care must be taken during the following phases:

- Disassembling of the machine from the working area
- Transport and handling of the machine
- Dismantling of the machine
- Separation of the different materials composing the machine.

To demolish and dismantle the machine, it is necessary to observe some important rules for the safeguard of one's health and of environment where we live.



Eliminate any residue of oil and grease from the machine; the lubricating substances must not be dispersed in the environment, but regenerated or treated by a Company specialised in the dismantling or such products.

In case the materials used for the productive process or the lubricants and the condensation waters are not eliminated according to the Laws and Regulations in force, there can be other additional risks such as:



- 1) Environmental pollution
- 2) Intoxication of the people in charge of the dismantling operations.

Refer to the National or Regional Laws relevant to the elimination of industrial solid wastes and toxic and noxious wastes, when carrying out the separating, recycling or dismantling operations of the materials:

Sheaths, flexible pipes and plastic or non metallic components, must be disassembled and dismantled separately;

Pneumatic and electric components such as valves, solenoid valves, pressure regulators, switches, transformers, etc., must be disassembled to be used again, in case they are still in good conditions or, if possible, overhauled and recycled.

The housing and in any case all the metallic parts of the machine must be disassembled and grouped according to each type of material. The various parts, thus obtained, can be demolished and melted, in order to recycle the material composing the original machine.



Noxious-toxic products must be eliminated in compliance with the National or Regional Laws in force, through special draining channels belonging to the Consortium specialised in the elimination of used oils.

Machine resonant level

DETERMINING THE NOISE EMISSION LEVEL IN db (A)

Stain removal table series EC 76

Operating cycles	Time constant	Leq. (A)
- Distribution of solvent on item with air gun	Slow	87
- Stain removal with spray gun	Slow	89
- Compressor	Slow	75

Notes: the high level observed is mainly due to the output of solvent and air for removing stains through the air gun nozzles. The Equivalent Level for an operator during a complete stain removing cycle was calculated at around 86.5 db (A). To maintain a risk level which is lower than 85 dbA, a daily usage of the stain removal table not exceeding 2 hours is recommended, otherwise the use of safety earphones or earplugs is obligatory. These considerations refer to a single machine. If the unit is being inserted into an environment which is already acoustically polluted, it is necessary to also calculate the noise emission levels from surrounding machinery for a global definition of the daily Exposure Level (Lep d) for the machine operators.

Main warnings

- 1) - *In the paragraphs relevant to the technical description, the location of the accessories and of the various machine parts is always given with reference to the operator's position.*
- 2) - *All the maintenance and adjustment activities described in this handbook must be carried out only after stopping the machine (main switch turned to OFF) and disconnecting the power cord if not clearly indicated that the operation must be carried out when the machine is on.*
- 3) - *All the adjustment and replacement activities that are not described in this handbook must be carried out by qualified and skilled operators to avoid any accident or damage to the machine and to the operator.*
- 4) - *The builder has provided the machine with the safety devices in order to protect the operator while performing his tasks. During the machine functioning, the safety devices must not be removed for any reason at all.
The operators, although skilled, must comply with the instructions and the warnings contained in this handbook.*
- 5) - *Since the machine is not perfectly balanced, use only a crane to lift it.*
- 6) - *Lift the machine only by means of steel cables or bands duly dimensioned according to the machine weight.*
- 7) - *Lift the machine by means of safety hooks.*
- 8) - *No foreign operator must stay or pass in the handling area while the operators responsible for the machine transport will have to keep at a suitable distance to avoid being intercepted by the machine.*
- 9) - *Never make sudden manoeuvres while lifting and handling the machine so that it cannot intercept any people or object present in the handling area.*
- 10) - *An operator staying outside the handling area will have to follow all the handling activities and signal any possible obstacle the crane operator cannot see.*
- 11) - *In case of sea transport, it is advisable to protect the various machine parts by covering them with antirust lubricating agents and to add some bags containing hygroscopic salts to the packaging.*
- 12) - *Once positioned on the truck (or any transport mean) the machine must be braced by ropes, steel cables or wooden wedged duly dimensioned according to the machine weight.*
- 13) - *The machine must be installed in a place where the best hygrothermometrical conditions are observed for the safety of the operator in order to reduce the possibility of fatigue to the minimum and to allow the operator to work in the maximum safety conditions.*
- 14) - *The machine installation area will have to be well-ventilated and free from explosive gases.*
- 15) - *The temperature of the machine installation area will have to range between 10°C and 35°C.*
- 16) - *Upon receipt in the user's factory, the machine must be cleaned wearing special protective gloves.*

Main warnings

- 17) - *Only skilled operators can connect the machine to the external power sources.*
- 18) - *Check that the User's power supply voltage corresponds to the one indicated on the machine rating. On the contrary, contact the Builder.*
- 19) - *In compliance with the regulations in force, the User will have to provide the machine with safety devices, to avoid short-circuits, and overloads, in order to protect the machine power supply line.*
- 20) - *Only qualified engineers can connect the machine to the power sources, in compliance with the regulations in force.*
- 21) - *For any adjustment, timing or replacement interventions that are not described in this handbook, please contact the Dealer or Builder personnel.*
- 22) - *It is possible to make various adjustments to adapt the machine to the various production needs.*
- 23) - *To work, the machine requires only one operator. During its functioning no one except for the operator responsible for the machine use can stay near the machine or use it.*
- 24) - *In order to suddenly stop the machine at any time, turn the main switch to OFF.*
- 25) - *During the machine functioning, it is strictly forbidden to remove the safety devices assembled by the builder on the machine in order to protect the operator while performing his tasks.*
- 26) - *Only skilled and qualified operators must use the machine.*
- 27) - *Never leave the machine unattended.*
- 28) - *A good maintenance is a determining factor for a longer life of the machine in the best functioning and performing conditions in order to assure the safety conditions provided by the builder.*
- 29) - *Before any maintenance or replacement activity, remember to:*
 - *stop the machine (MAIN SWITCH turned to OFF)*
 - *disconnect the power cord.*
- 30) - *Skilled operators, familiar with the technology applied to the machine must carry out any type of maintenance, replacement or servicing described in this handbook.*
- 31) - *The manufacturer's responsibility ceases in the event of interventions resulting in modifications, mishandling or any operations which prove detrimental to the machine's safety and stability, practiced after final testing and the issuing of the CE Declaration of Conformity.*

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Machine spare parts

The builder guarantees the safety and reliability features of the machine only if original spare parts are used. The builder accepts no responsibility for the damages that may derive from the use of non-original spare parts.

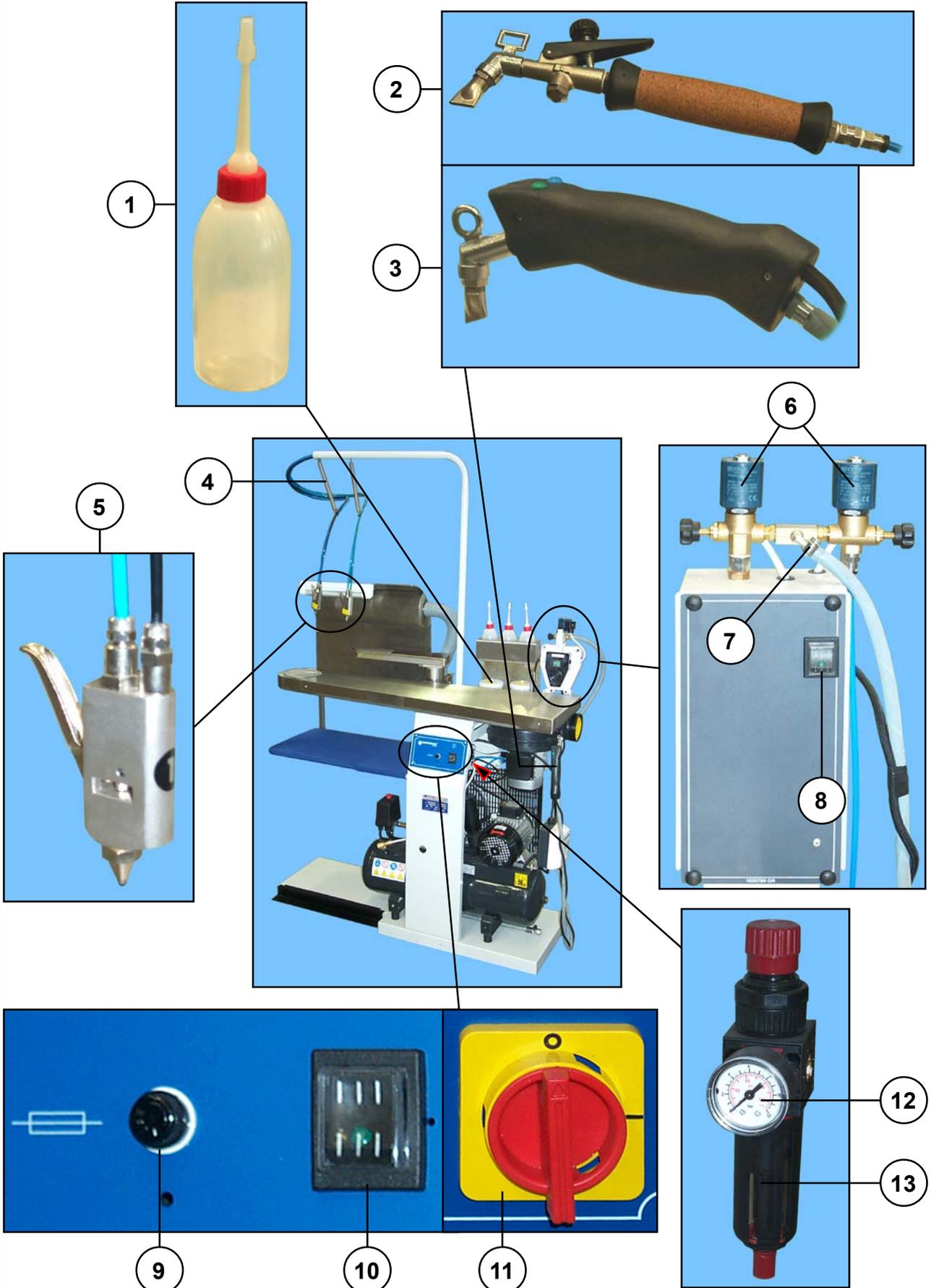
A code number indicated in the legends referring to the electric and pneumatic diagrams or indicated in the tables under the pictures included in the section "**Machine spare parts**" corresponds to each spare part.

When ordering the machine spare parts, always remember to specify:

- the machine number
- the code number of the spare part
- the machine model.
- the voltage and frequency

Machine spare parts

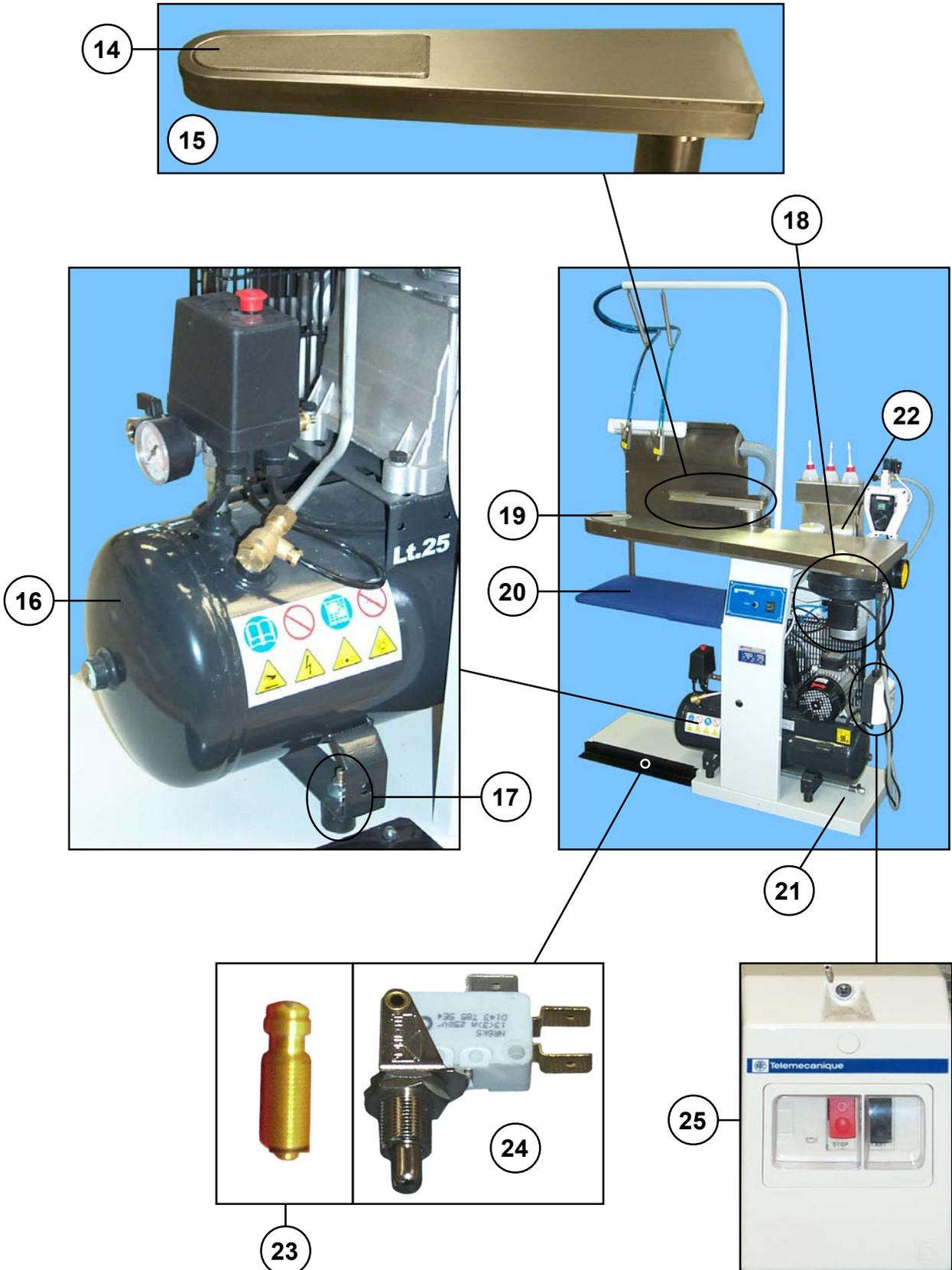
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Machine spare parts

POS.	DESCRIPTION	QTY	CODE
1	CONTAINER FOR STAIN REMOVAL PRODUCTS	6	3043065
2	AIR GUN WITH LEVER	1	3001002
3	AIR / STEAM GUN	1	3001005
4	STAINLESS STEEL SPRING	2	1070280
5	AIR BRUSH GUN	2	3001001
6	ADJUSTABLE SOLENOID VALVE	2	3003025
7	DV8/S FLAP VALVE	1	3024031
8	BIPOLAR SWITCH	1	3009020
9	FUSE	1	3008022
	FUSE HOLDER	1	3008003
10	BIPOLAR SWITCH	1	3009020
11	MAIN SWITCH	1	3009041/2
12	AIR GAUGE	1	3025003
13	FILTER REDUCER	1	3024160

Machine spare parts

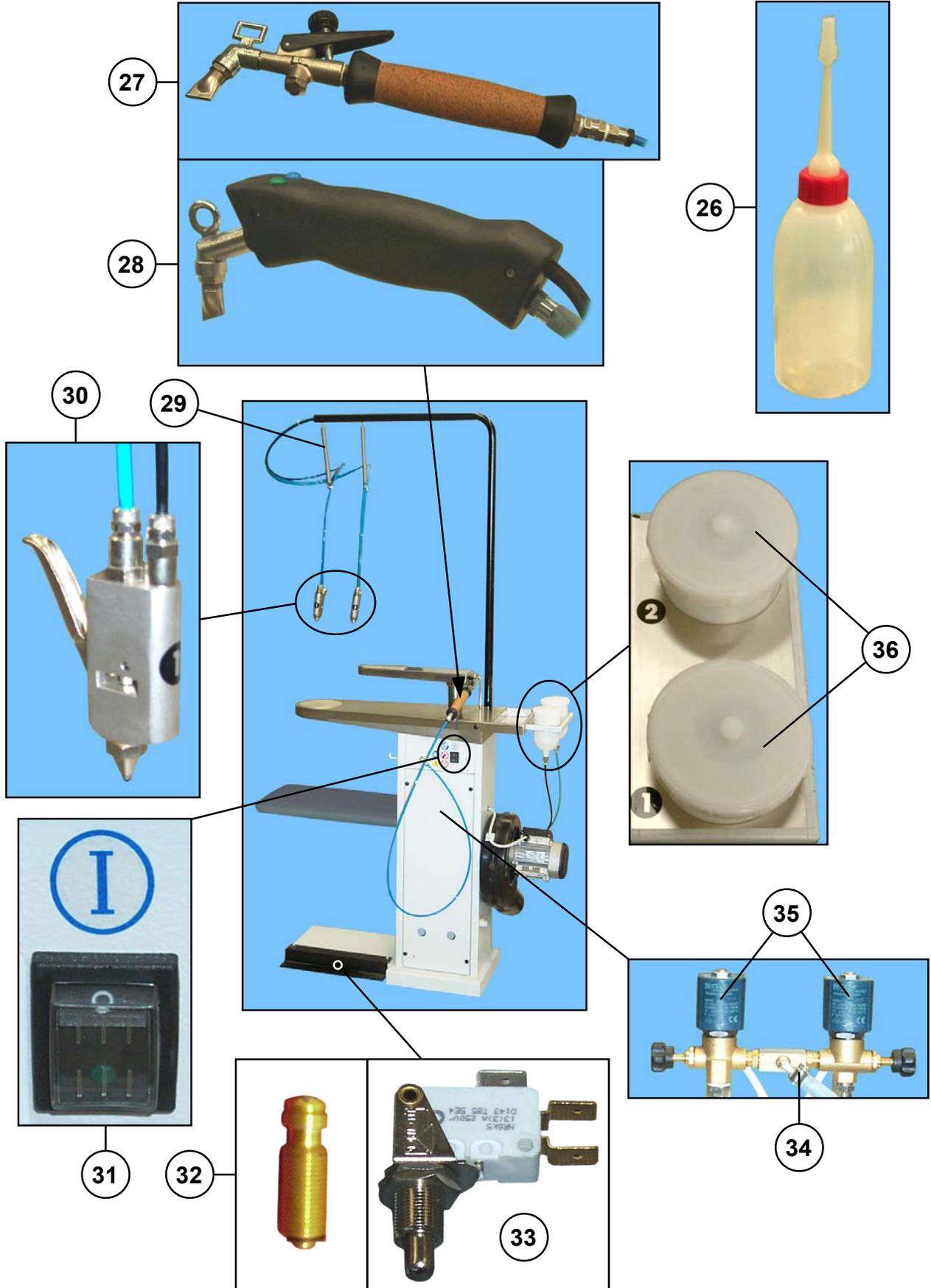


Machine spare parts

POS.	DESCRIPTION	QTY	CODE
14	STAIN REMOVAL NETTING	1	1051362
15	STAIN REMOVAL FORM	1	F07
16	COMPRESSOR V.230/400 - 50Hz	1	3019064
	COMPRESSOR V.220/3 - 60Hz	1	3019055
17	ANTI-VIBRATION UNIT	4	3050005
18	SUCTION UNIT V.220/1 - 50Hz	1	3019041
	SUCTION UNIT V.220/1 - 60Hz	1	3019058
	SUCTION UNIT V.110 - 60Hz	1	3019054
19	STAIN REMOVAL SURFACE STAINLESS STEEL NETTING	1	110076072
20	UNDER CANVAS COVER	1	13042023
21	CONDENSATION TRAY	1	3050011
22	NYLON CONTAINER	2	3050004
23	PIN SPRING	1	13014037
24	PEDAL MICROSWITCH	1	3014001
25	SWITCH	1	3009028/9

Machine spare parts

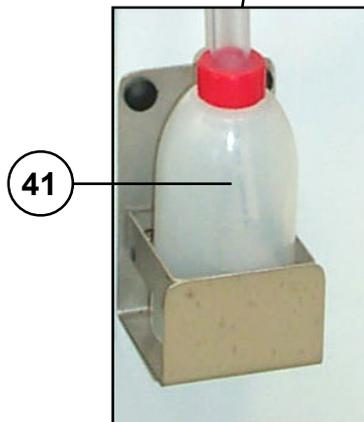
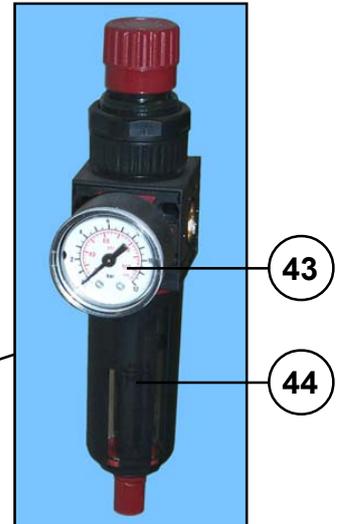
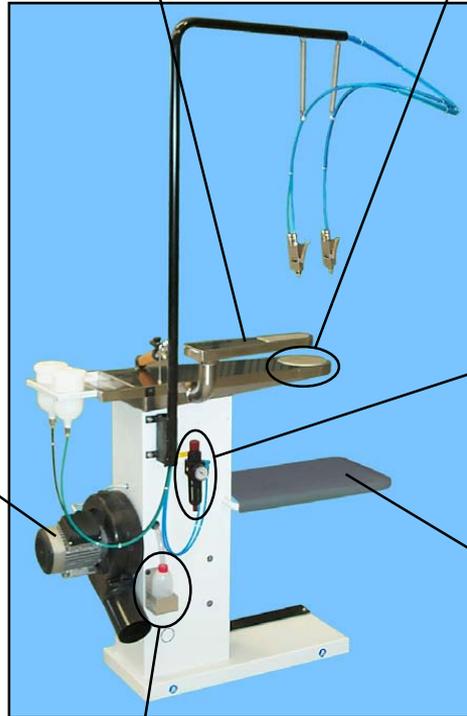
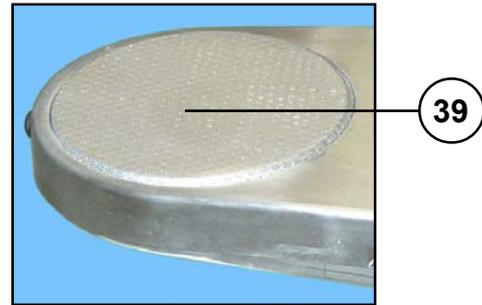
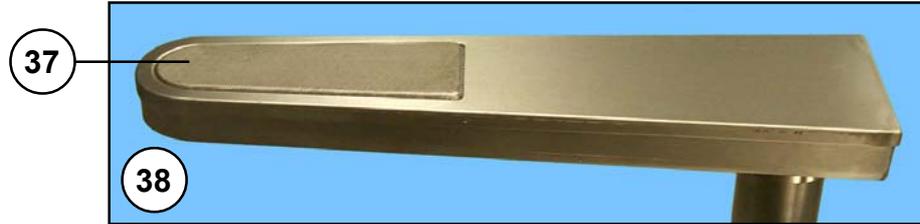
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Machine spare parts

POS.	DESCRIPTION	QTY	CODE
26	CONTAINER FOR STAIN REMOVAL PRODUCTS	3	3043065
27	AIR GUN WITH LEVER	1	3001002
28	AIR / STEAM GUN	1	3001005
29	STAINLESS STEEL SPRING	2	1070280
30	AIR BRUSH GUN	2	3001001
31	BIPOLAR SWITCH	1	3009020
32	PIN SPRING	1÷3	13014037
33	PEDAL MICROSWITCH	1÷3	3014001
34	DV8/S FLAP VALVE	1	3024031
35	ADJUSTABLE SOLENOID VALVE	2	3003025
36	NYLON CONTAINER	2	3050004

Machine spare parts



Machine spare parts

POS.	DESCRIPTION	QTY	CODE
37	STAIN REMOVAL NETTING	1	1051362
38	STAIN REMOVAL FORM	1	F09
39	STAIN REMOVAL SURFACE STAINLESS STEEL NETTING	1	1175828
40	SUCTION UNIT 230V - 50Hz	1	3019007
	SUCTION UNIT 220V - 60Hz	1	3019008
41	WATER RECOVERY BOTTLE	1	3043065
42	UNDER CANVAS COVER	1	1174890
43	AIR GAUGE	1	3025003
44	FILTER REDUCER	1	3024160