

INSTRUCTION MANUAL

ROTEX AIR LITE



CE

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WARRANTY TERMS

- The warranty period shall come into effect on the day on which the equipment is brought into service at the user's premises, as attested on the returned warranty certificate and the delivery note, and shall run for two years, based on a standard equipment operating schedule of 8 hours per day, i.e. 3,000 hours.
- The warranty is strictly limited to our equipment, and covers faulty materials and workmanship, which the purchaser shall be required to substantiate.
- Our liability shall be limited to making good or replacing free of charge parts that are acknowledged by us to be defective, and no claims for damages for any reason may be made against us.
- Parts replaced under warranty shall:
 - ↳ remain our property
 - ↳ be invoiced on consignment
- A credit note will be issued upon return of the faulty parts.
Returns must be made **NO LATER THAN ONE MONTH** after the work is performed under warranty.

THIS WARRANTY DOES NOT COVER:

- Commercially sourced wearing parts, material and equipment such as:
 - Fuses, bulbs, seals, hoses, nozzles, filters, etc.
 - Material and equipment not manufactured wholly by us, which are covered by the warranty of the manufacturer thereof.

THIS WARRANTY DOES NOT EXTEND TO:

- Replacements or repairs arising from fair wear and tear of the appliances or machines, damage or accidents arising from negligence, lack of supervision or maintenance, improper use or alterations made without our written consent.
- Defects arising from material provided by the purchaser or mandatory design requirements issued by the purchaser.
- Repairs made necessary by damage or accidents arising during carriage.
- Normal maintenance and adjustment procedures required during use of the machine, as set out in the maintenance instructions, such as:
 - adjustment of intermediate components
 - tightening of pipes, hoses, etc.



Traces of detergent oil in the air system of pneumatic machines shall invalidate the aforementioned warranty terms.

**Quote the machine reference and serial number
when making technical enquiries or ordering spare parts.**

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TECHNICAL DATA

	ROTEX AIR LITE
Weight in working order	71 kg
Height	621 mm
Depth	847 mm
Width	572 mm
Platen size	400X500MM
Power supply	230 V Single phase + Earth 50/60 Hz
Power consumption	2,500 W
Amp rating	11 A
Electronic temperature controller	
Accuracy	+/- 1%
Setting range	0 to 250 °C
Electronic timer	
Accuracy	+/- 1%
Setting range	0 s to 30min
Maximum pressing force	628 DaN at 8 bars

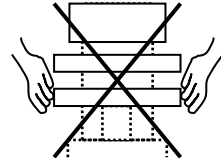
Non-contractual document: we reserve the right to alter our product specifications in line with advances in technology.

SETTING UP THE MACHINE

TO BE PERFORMED BY QUALIFIED PERSONNEL



Do not hold the machine by the platens!

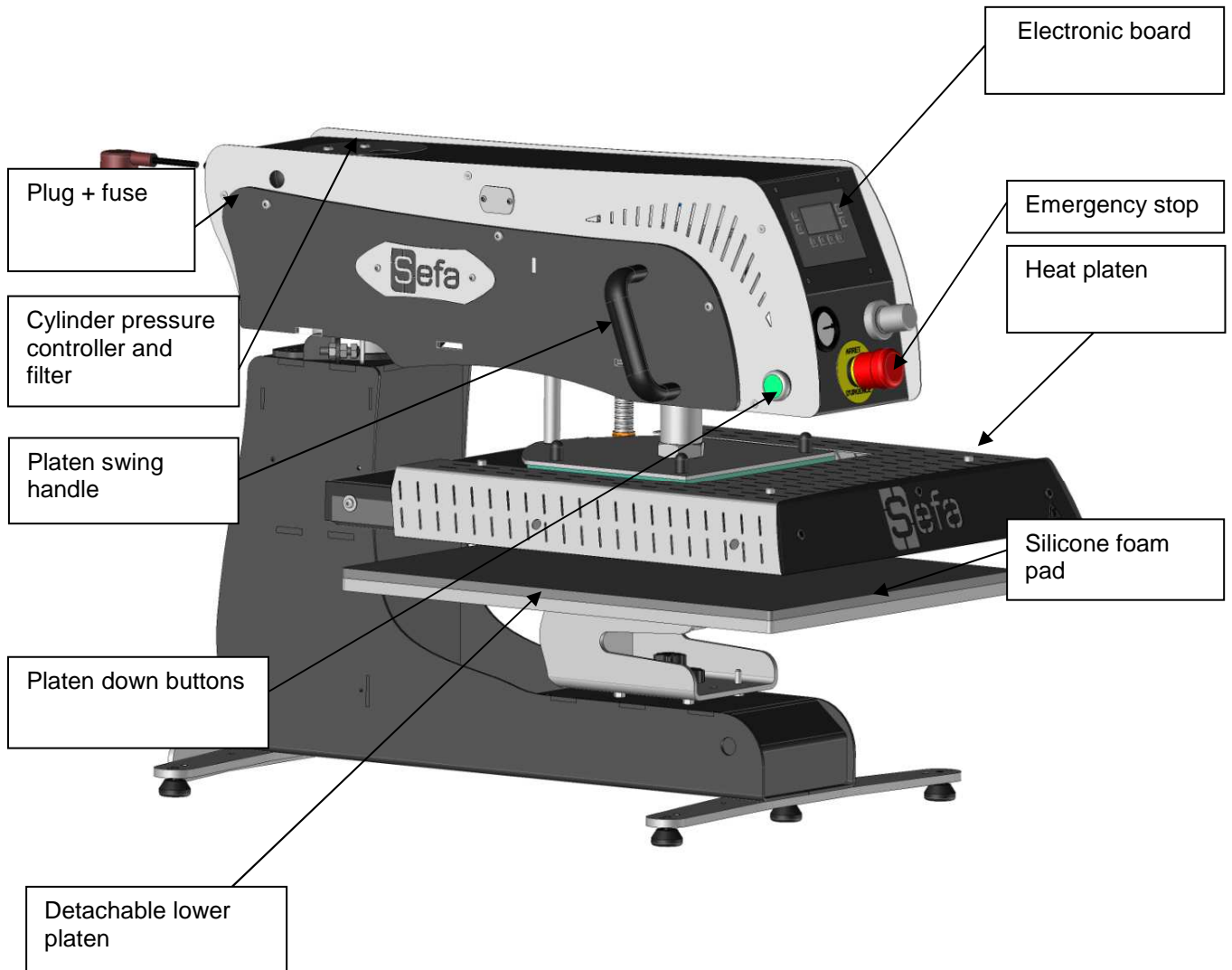


- Remove the machine from its packaging.
- Hold the machine by its frame, position it on a steady table and secure in place.
- Plug in the press using the plug provided (230 Volt + Earth / 50 or 60 Hz).
- Connect the press to your compressed air supply (min. 3 bar, max. 8 bar).

OVERVIEW

This heat press has been designed to operate at high output without risk to operator safety in accordance with article L 233-5 of the French labour code.

It has been designed for use by a single operator positioned in front of the machine.



OPERATION






- Please read the Operating Manual carefully before operating the press.
- The press should be operated by a qualified person who is aware of the potential dangers arising from improper use of the equipment.
- The factory-installed pneumatic, electrical and mechanical settings programmed by our technicians and the safety features must not be altered under any circumstances. SEFA accepts no liability for problems that may be caused by the machine if such alterations are made.

1. SAFETY

THIS MACHINE IS DESIGNED FOR USE BY A SINGLE OPERATOR

FOR USE BY QUALIFIED PERSONNEL

a) International symbols

	OFF		HOT SURFACE
	ON		ELECTROCUTION HAZARD
	DANGER, WARNING		



b) Important safety precautions

- Do not touch hot parts of the machine during use.
- Do not place hands between the platens when the machine is switched on.
- Make sure the operator is not exposed to risks of burns, electrocution or other hazards when handling the machine.
- Check the machine each day before use.
- Make sure there is nobody in the vicinity of the machine before starting work.
- If the machine malfunctions, cut the power supply immediately and look for the cause of the problem (see the Servicing section).



c) Safety features

- No changes must be made to the safety covers and safety systems. They must be refitted if they are removed for servicing work. They must be held securely in place and kept in good condition during normal use.
- The Rotex Air Lite press is fitted with safety systems to protect the operator from pinch-point hazards. The main safety components are:
 - ↪ **Emergency stop button**
Front-mounted button that switches the machine off when pressed.
 - ↪ **Dual-operated buttons**
The operator must use both hands to push the buttons in order to carry out a pressing action. The heat platen will only lower when both buttons are pressed and held in at the same time. The heat platen will lift automatically if either button is not held in until the platens are pressed against each other.

d) Safety system checks

- Test the emergency shut-off at regular intervals.
- Check the dual-handed control at frequent intervals.

e) After an emergency stop

- Make sure there are no other unresolved problems preventing use before restoring the machine to normal operating mode.
Turn the red button to release the emergency stop. The machine will be reset automatically.

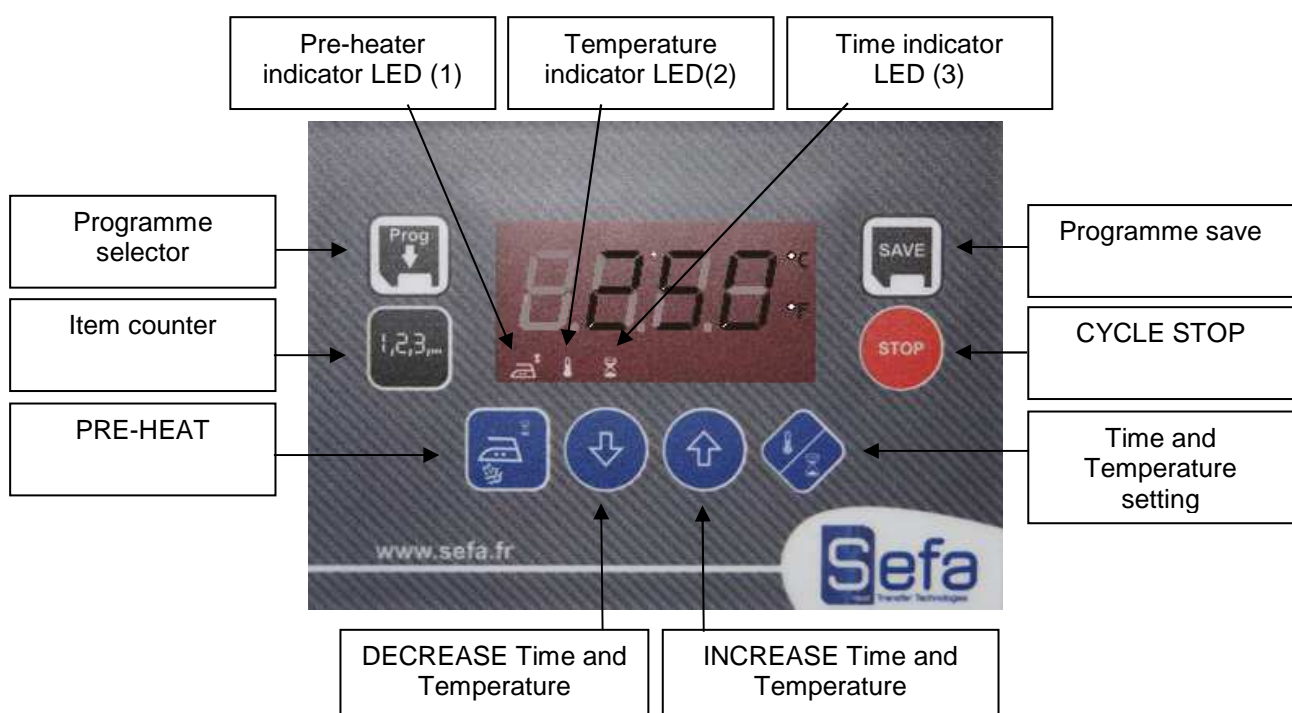
f) Instructions and manuals

- Technical parts documents are supplied with the machine. Please read them before starting to use your SEFA machine.

2. SWITCHING ON

- Press the main switch at the back of the machine to turn the power on.
- Check that the display panel comes on. The screen will show a welcome message, followed by the factory settings.
- Use the keypad to adjust the temperature to suit the type of transfer, See SETTING § 4a.
- Use the keypad to set the application time to suit the type of transfer, See SETTING § 4b.
- Use the controller to adjust the pressure to suit the type of transfer and check the pressure gauge reading, see SETTING § 4c.

3. CONTROL PANEL




4. OPERATION

g) Setting the pressing time and temperature



1. Pressing time

Press the TIME/TEMPERATURE key . Indicator ③ will flash: you can now set the pressing time.
The default factory setting is 15 seconds.

Use the UP  and DOWN  keys to alter this setting.

Press the TIME/TEMPERATURE  key again to confirm the new setting.
You can now set the pressing temperature.

2. Temperature

Indicator ② will flash when you have finished setting the pressing time: you can now set the pressing temperature.
The default factory setting is 180° C.

Use the UP  and DOWN  keys to alter this setting.

Press the TIME/TEMPERATURE  key again to confirm the new setting.
The press is now ready to apply the transfer.

h) Pre-heat cycle



The press includes a 2nd timer that lets you pre-heat the fabric for a set time before positioning the transfer.

3. Setting the pre-heat time

Press the PRE-HEAT key ; indicator ① will begin to flash.

Use the UP  and DOWN  keys to alter the setting.

Press the PRE-HEAT key  again to confirm the new setting.

The pre-heat cycle will not run when set to 0 (factory setting).

4. Use

Place the fabric on the platen without a transfer.

Close the press: the 2nd timer will start and indicator ① will come on.

The buzzer will sound at the end of the set time and the press will open automatically.


Place the transfer on the fabric and close the press again.

The main timer will start and indicator ③ will come on.

The press will open automatically when the countdown has finished.

NB: the pre-heat temperature is the same as the indicated transfer setpoint.

i) Cycle Stop


You can stop the cycle at any time by pressing the CYCLE STOP key .
The press will open automatically and the timer will stop.


j) Programming a cycle




Up to 3 programmes can be stored with different settings:

- Pre-heat time
- Main time
- Temperature

Press and hold the SAVE key  for 3 seconds to store the most recent press settings. The name of the programme you are trying to save (Pr1, etc) will flash on the display.

Keep pressing the SAVE  key to scroll through the programme names to the name you want (Pr1 → Pr2 → Pr3 → Pr1...


Press and hold the SAVE key  for 3 seconds to save the programme. The buzzer will sound when the programme has been confirmed (OR ACC CONTECT: has been saved successfully.)


The default factory settings for the 3 programmes Pr1 to Pr3 are:

- 180° C for the temperature
- 15 seconds for the main time
- 0 seconds for the pre-heat time

k) Selecting a programme



Press the SELECT key  to retrieve a saved programme. The last used programme will be displayed. Keep pressing the key to bring up the required programme.

Keep the SELECT key  pressed in for 3 seconds to confirm your selection. The buzzer will sound when the programme has been confirmed (OR ACC CONTECT: has been saved successfully.) The selected programme's temperature, pre-heat timer and main pressing timer settings will be loaded automatically.


l) Item counter



The press features two item counters:


- A resettable partial counter
- A non-resettable total counter

5. Partial counter

Press the COUNTER key  once to see how many cycles have been successfully completed since the last reset. Display lasts 5 seconds.

Press and hold the key for 3 seconds to reset the counter.

6. Total counter

Press the COUNTER key  twice to see how many hundreds of press cycles have been completed in total (e.g. 230 means 23,000 items).

This counter cannot be reset.

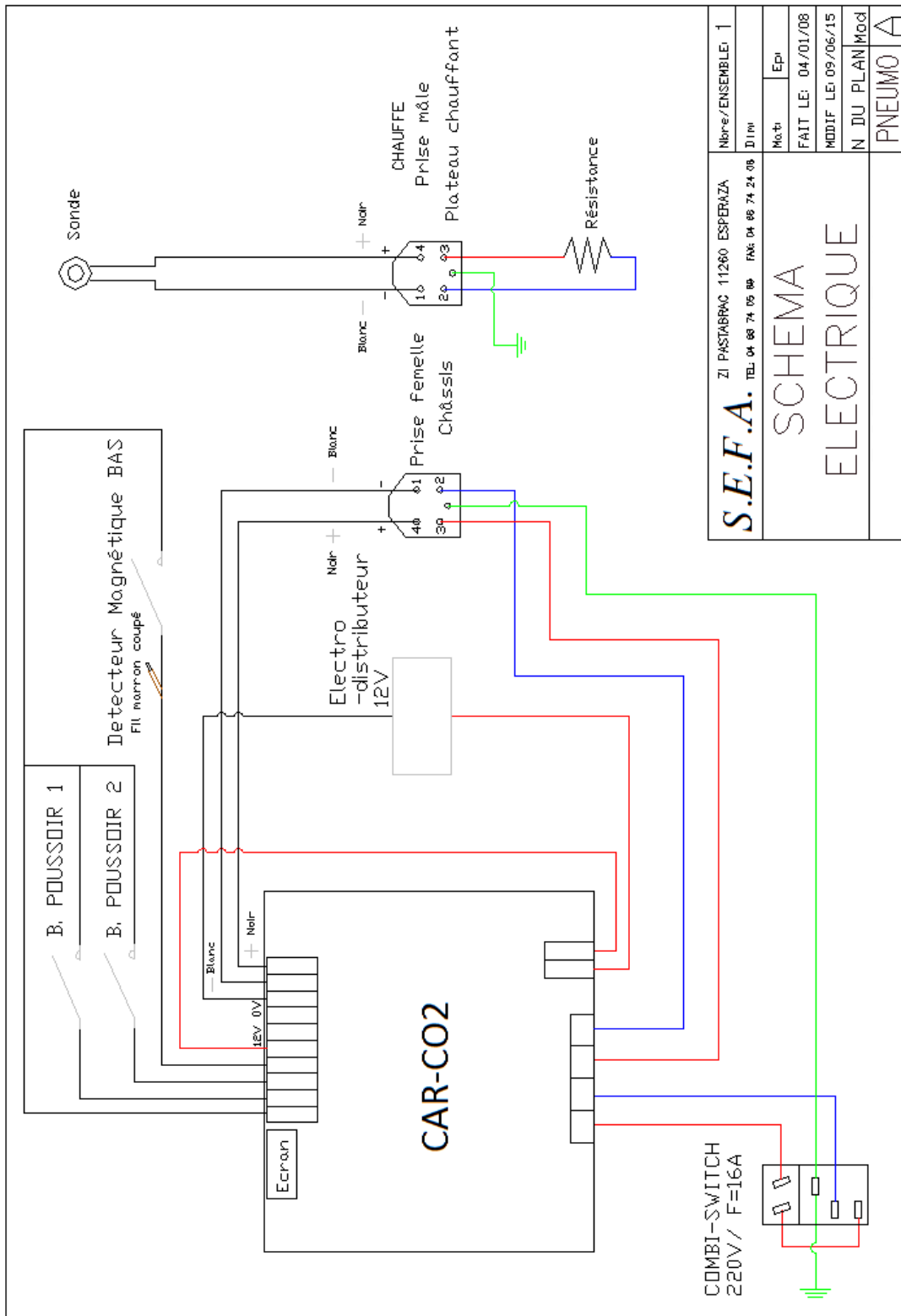
The screen will return to the normal display after 3 seconds.

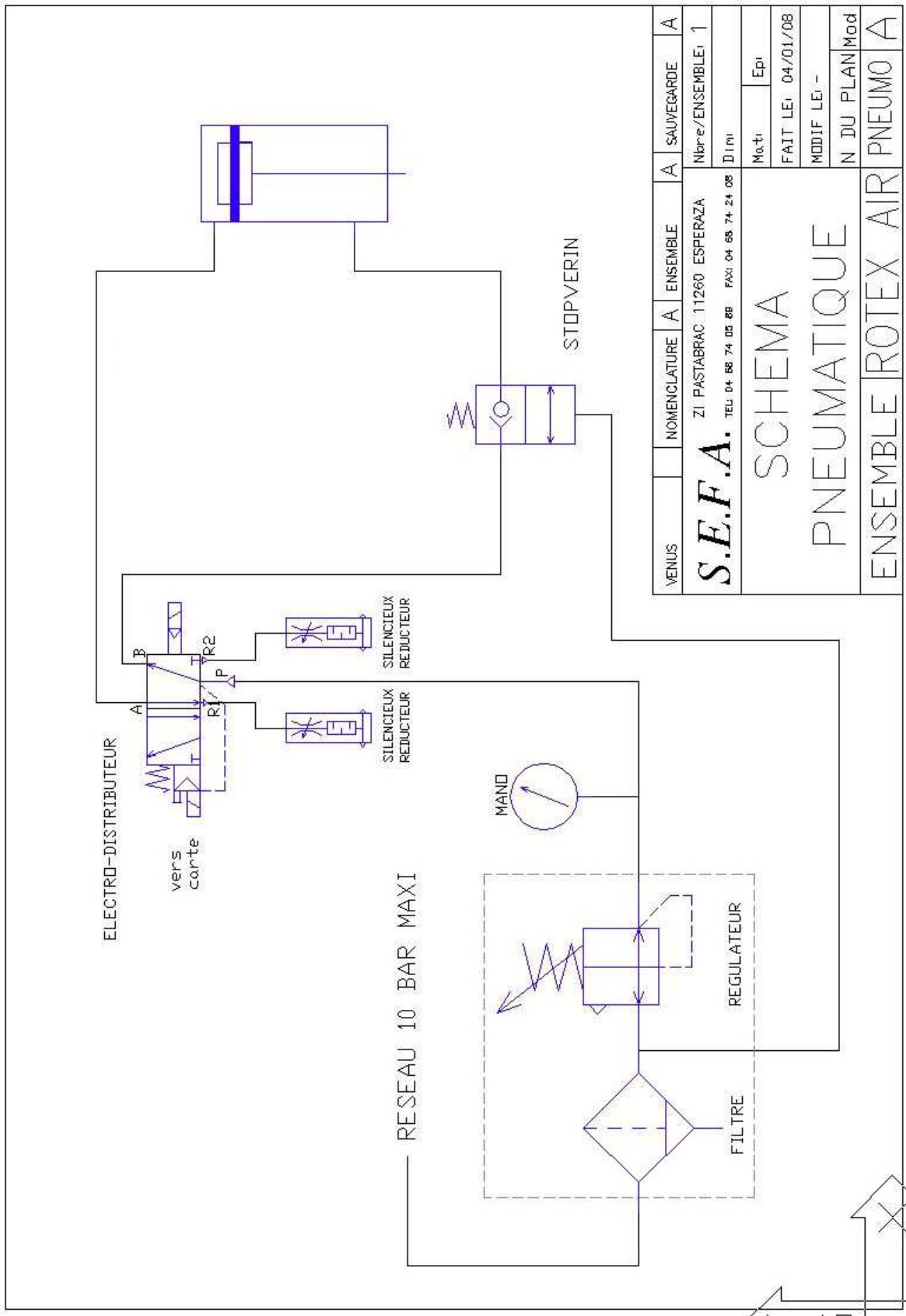
m) Alerts

<i>On-screen message</i>	<i>Cause</i>	<i>Effect</i>
<i>Er1</i>	<i>Faulty temperature probe</i>	<i>Heating relay disabled</i>
<i>Err</i>	<i>Faulty card probe</i>	<i>Heating relay disabled</i>
<i>Col</i>	<i>Keypad-base connection alarm</i>	<i>Relay disabled</i>

Each alert sets off the buzzer, which can be muted by pressing any key.

5. WIRING AND PNEUMATIC DIAGRAMS





VENUS	NOMENCLATURE	A	ENSEMBLE	A	SAUVEGARDE	A
S.E.F.A.	ZI PASTABRAC 11260	ESPERAZA		Nbre/ENSEMBLE	1	
	TEL: 04 66 74 05 89	FAX: 04 66 74 24 08		Dim		
SCHEMA				Mat	Epi	
PNEUMATIQUE				FAIT LE:	04/01/08	
ENSEMBLE ROTEX AIR				MODIF LE:	-	
				N DU PLAN	Mod	
				PNEUMO	A	

6. SERVICING

TO BE PERFORMED BY QUALIFIED PERSONNEL

**THE MACHINE MUST BE SWITCHED OFF AND LOCKED AND TAGGED PRIOR TO SERVICING
(ELECTRIC AND PNEUMATIC POWER SOURCES DISCONNECTED)**

1. The following tools should be available at hand:

- ↖ Phillips and flat-blade screwdrivers
- ↖ Set of open-ended spanners and box spanners
- ↖ Small water pump pliers
- ↖ Circlip pliers
- ↖ Needle-nose pliers with insulated handle
- ↖ Set of Allen keys
- ↖ Multimeter

1. REPLACING WORN PARTS

a) Silicone foam pads

2. Check that the platen is cold.
3. Make sure the surface of the platen is perfectly clean.
The surface can be cleaned using a mild solvent such as isopropyl alcohol. Suitable personal protective equipment must be worn.
4. Use RTV-1 glue to stick the foam pad to the aluminium platen (NB: read the instructions for use on the packet).
5. The pad and the platen must be clean and dry before they are stuck together.
6. Apply a thin layer of glue evenly over the platen and then stick the pad immediately into place, making sure there are no air bubbles trapped between the platen and the pad (NB: a notched adhesive comb of the type used for floor tiling would be suitable).
7. Leave to set overnight at room temperature with a slight pressure applied and the platen cold.

b) Other parts

8. Contact your stockist to determine whether they need to be renewed or repaired.

b. MAINTENANCE

1. SEFA heat presses are practically maintenance-free. Follow the preventive maintenance instructions below to ensure trouble-free operation:
 - ↖ Do not heat items that could perish or score the silicone pad or damage the heat platen's teflon coating.
 - ↖ Clean the machine at regular intervals, with the platen cold, using a clean cloth and isopropyl alcohol (NB: isopropyl alcohol is flammable - use with care and keep away from sources of heat) and wearing suitable personal protective equipment.
 - ↖ Keep the heat platen in the raised position when it is hot but not in use.
2. DAILY CARE:
 - ↖ Clean the foam pad and the platen's coating (when cold) with a dry cloth or a cloth with grease remover.
 - ↖ Inspect the air inlet filter on the back of the swing arm; drain the filter if it is heavily condensated.
3. MONTHLY CARE:
 - ↖ Check and lubricate the column.
4. According to use:
 - ↖ Replace the foam pad every 6 months.

7. WEAR PARTS

When ordering: always quote the description, reference and quantity

<u>Reference</u>	<u>Description</u>	<u>Quantity</u>
<u>ELECTRICAL PARTS</u>		
CAR-CO2	CONTROL BOARD	1
RES-682	MICA HEATING ELEMENT 400x500 2500W	1
SON-189	TEMPERATURE PROBE	1
FUS-153	FUSE 5 x 20 mm T 16 A 250 V	2
<u>PNEUMATIC PARTS</u>		
VER-SM29	CYLINDER Ø100 C50	1
FIL-013	AIR FILTER	1
ELE-SM3	SOLENOID CONTROL VALVE 5/2 G1/8 12V	1
<u>PRESS COVERINGS</u>		
MOU-540	FOAM 9.53 mm 400 x 500	1
TOI-4050	TEFLON SHEET	1

8. TROUBLESHOOTING TIPS



The machine's electrical power must be switched off and locked and tagged prior to any service repair work.

The heat platen can cause burns. Check that the platen temperature reading on the display panel is below 25° C before handling.

<i>PROBLEM</i>	<i>POSSIBLE CAUSES</i>	<i>SOLUTION</i>
The machine does not switch on	<ul style="list-style-type: none"> ➤ The plug is not connected ➤ The switch has not been pressed ➤ Main fuse not working 	<ul style="list-style-type: none"> ➤ Check the mains electricity and that the machine is plugged in. ➤ Press the main On/Off switch to 1. ➤ The fuse is located in a holder next to the power cord inlet. It can be reached by pulling out the power lead and prising up the housing with the tip of a screwdriver. The square tube contains a spare fuse to replace the one in the clip.
The platen does not heat up	<ul style="list-style-type: none"> ➤ Faulty heating elements ➤ Problem with the electronic board ➤ Temperature setting too low 	<ul style="list-style-type: none"> ➤ Check the connections and the condition of the wires. Contact your retailer to have the heat platen removed. ➤ Check the on-screen messages and refer to the board user manual. ➤ See section V about changing this setting
The platen overheats	<ul style="list-style-type: none"> ➤ Problem with the probe or the electronic board 	<ul style="list-style-type: none"> ➤ Check the messages on the LCD screen and refer to the board user manual. Contact your retailer.
The timer does not count down	<ul style="list-style-type: none"> ➤ Disabled or faulty cylinder-mounted sensor ➤ Problem with the electronic board 	<ul style="list-style-type: none"> ➤ Check the connections. ➤ Check the on-screen messages and refer to the board user manual.
The platen does not lower	<ul style="list-style-type: none"> ➤ The buttons are not working ➤ Leaking cylinder ➤ Faulty solenoid control valve ➤ Compressed air pressure too low 	<ul style="list-style-type: none"> ➤ Check their connections. ➤ Check the seals and all the connections. Contact your retailer. ➤ Check the valve couplings. Contact your stockist about a possible replacement. ➤ Check that the supply pressure is > 3 bar.
The platen does not lift up	<ul style="list-style-type: none"> ➤ Faulty solenoid control valve ➤ Leaking cylinder 	<ul style="list-style-type: none"> ➤ Check the valve couplings. Contact your stockist about a possible replacement. ➤ Check the seals and all the connections. Contact your retailer.
The platen stays down after pressing	<ul style="list-style-type: none"> ➤ The timer is not counting down 	<ul style="list-style-type: none"> ➤ See above.

9. NOTES
