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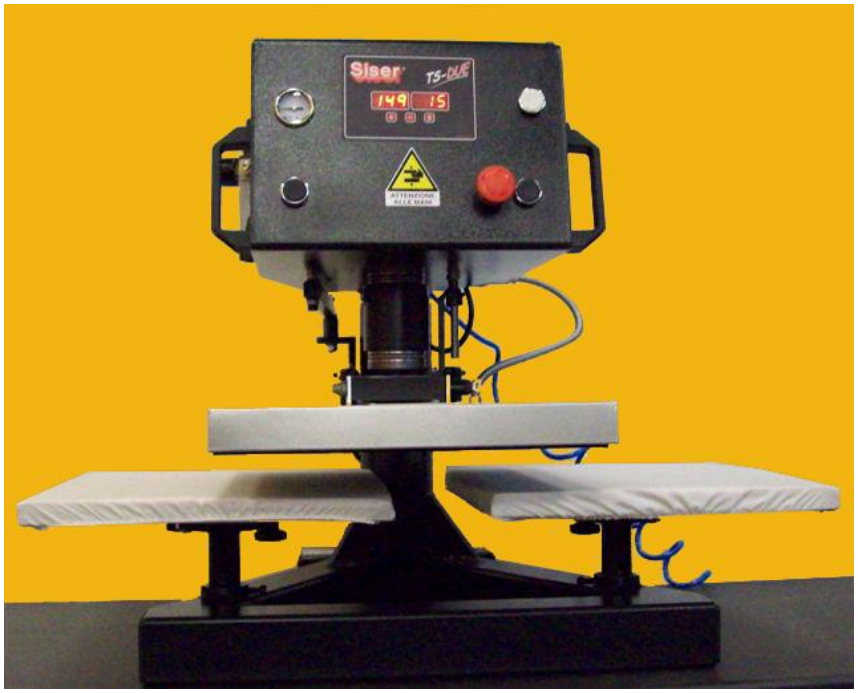
Società Unipersonale

OPERATING INSTRUCTIONS FOR PNEUMATIC

Heat Transfer Press

TS DUE

with interchangeable plates



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Thank you very much for buying one of our Siser TS DUE heat transfer presses. We are sure you will capitalise on this excellent unit for years if you take the time to read these instructions carefully.

Introduction

Please study these instructions carefully before transporting, mounting, using or maintaining the transfer press, as they will give you important directions for a safe handling. Moreover you will find information about how to order spare parts in this manual.

Please retain these instructions for later reference in a safe, easily accessible place.

Please make sure that all operators of the transfer press have understood all instructions and graphic symbols labelled on the press.

Accidents can also be avoided by strictly following the safety regulations according to the **machine directive 89/392/CEE.**

It is specifically prohibited to remove or manipulate shrouds or legally compulsory labels or plates.

Contents

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1. Warranty

Siser provide you with a 12 months warranty on all their transfer presses (from date of purchase).

To submit a warranty claim is only possible if the transfer press has been mounted and used according to the instructions in this manual and all necessary maintenance has been regularly performed.

During the warranty period defective or broken parts will be repaired free of charge by Siser Italy.

Transport and shipping expenses are on buyer's account.

The reclaim of defective parts after their replacement is at the discretion of Siser.

Parts needing to be replaced because of maintenance, wear or carelessness are not included in this warranty.

Any claims of consequential costs of a loss or damage, e.g. loss of production, are explicitly excluded from this warranty. No distributor, representative or agent is authorised to assume for Siser any other obligation or liability or to submit a statement different from the one mentioned above.

By accepting this warranty the customer waives every compensation for losses or damages arising from a production stop.

2. Technical Data

- Mains Voltage 220 V
- Power Consumption 2000 W
- Weight 75 Kg
- Size of Supporting Plate 2 x (40 x 50 cm)
- Printing Pressure 1.2-1.5 kg/cm^2 – 2.5-10 bar
- Max. Temperature 250 °C

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3. Cap and Plate Set

a. Cap Set twin

b. Plate set for sleeves, trousers and pockets.

For this model you may purchase easily interchangeable sets for converting the press:

A. Cap set with a bent heating plate and two supporting plates (cf. fig. a)

B. Plate set (cf. fig. b) consisting of :

- a supporting plate sized 15 x 38 cm
  e.g. for trouser legs or sleeves and
- a supporting plate sized 15 x 15 cm
  e.g. for shirt pockets

C. We'll be happy to produce plates in other sizes for you upon request.

Fitting and Connecting the Cap Set

Before fitting the cap set ensure that the unit is cold and switched off. Then unplug the cable between heating plate and instrument box. Now untighten the clamping element of the heating plate suspension, remove the heating plate with care and put it down on a safe, even surface.

Fit the bent heating cap plate in place of the normal heating plate and tighten it to the suspension using the clamping element. Then connect the heating element to the instrument box by plugging in the connector into the socket. The heating element is now ready for use. After that install the bent supporting cap plates observing the following instructions:

To exchange the flat supporting plates with bent cap supporting plates untighten the two fixing screws just underneath the supporting plates, remove the flat plates and fit the bent cap plates in the same way. Please do not forget to tighten the plates again.

Fitting the Plate Sets

For fitting the various supporting plates untighten the two fixing screws just underneath the supporting plates. Now you can swap the present supporting plate for a plate of your choice and fix the new plate by tightening the fixing screws.

It is not necessary to swap the heating plate, even if the heating plate sticks out in case of smaller supporting plates. However you should never use the bent supporting cap plate together with a flat heating plate for t-shirts.

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4. Operating the Transfer Press

This transfer press can be used for transferring thermically weldable materials onto any kind of textiles.

Not more than one person may operate the press at a time. Avoid exceeding the specified maximum temperature when operating the press.

Siser is not liable for faults, accidents, damages, losses etc. resulting from not following the instructions in this manual.

Note: It is strictly forbidden to operate or mount this transfer press contrary to the directions made in this manual.

5. Safety Regulations

Before operating the transfer press, the operator must have fully understood the handling and function of the electric components of this transfer press and must have read and grasped all information provided in this manual.

NOTE: There is the risk of getting burned if you touch the heating plates during operation. We strongly advise the operator to wear protective gloves providing protection up to a temperature of 250° C.

Avoid to touch the heating plates of the transfer press during operation and for a period of 15 minutes after the press has been switched off, as the operating temperature of the press is very high. Please also avoid to touch the lower supporting plates when closing the press or printing the textile, as these operations involve a risk of getting squashed and burned.

It is strongly recommended that only one person operates the transfer press. Any kind of maintenance and / or repair work on the transfer press must only be performed after the heating plate has been switched off and has cooled down to ambient temperature.

Do not use the transfer press in a humid or wet environment. Before swapping the heating plates, switch off the unit and allow it to cool down to ambient temperature.

To not perform any transfers to textiles containing solvents, flammable liquids, gaseous or liquid fuels.

Unauthorised changes of the unit or the replacement of parts without consent of Siser srl are prohibited.

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Siser srl is not liable for damages, losses, injuries or consequential damages resulting from acts, changes or other use of the transfer press not authorised by a prior written consent from Siser srl.

All mounting, maintenance and repair work must be performed only by skilled and specially trained electricians.

It is strictly prohibited to remove or manipulate any kind of safety appliances.

The working area must be clean, tidy and free of any obstacles for manoeuvring the heat transfer press.

All general instructions for operation and all safety instructions must be strictly followed to avoid any injuries that might result from the use of this transfer press and to ensure a successful utilisation of the press.

6. Mounting, Transport and Mounting Location

The installation of the transfer press must only be performed by suitably qualified personnel, as the electrical connections must comply with local regulations.

Before mounting the transfer press prepare a suitable mounting location. Handle the package containing the transfer press with care and with the aid of suitable tools. As the transfer press is heavy, the mounting should be performed by two people.

For the mounting location you need a stable table with a height of approximately 70 cm. Fixing the unit's feet to the table top is a good way to increase the safety of the unit particularly if the work table is mobile.

7. Electrical Connection

The transfer press must be mounted in a room featuring a power supply system approved by local authorities and complying with effective safety regulations for electric devices.

The available power supply lines must have a cross section sufficient for the transfer press's energy demand of 2 kW, preferably in its own power circuit. The characteristic values of the power supply system must comply with the characteristics of the heat transfer press. Please check the values stated on the label.

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The coloured conductor markings must be carefully complied with and the transfer press must be earthed. Please refer to CEI 64-8 (IEC 364).

The power socket must have an electric protective earthing and a residual-current-operated protective device (RCD) disconnecting the circuit if the residual current exceeds 30 mA.

Do not use cables with damaged insulation. It is inadvisable to use extension cords.

Remove the plug from the power socket before starting any maintenance or repair work, in particular if it is necessary to open the box of the control panel or to perform work on the heating elements.

The graphic symbol „High-Tension“ signalises a serious danger and is attached on the box of the control panel and on top of the heating elements. Switch off the master switch before exchanging or removing heating elements.

8. Directions for Use

Please note the risks involved in using a transfer press mentioned in paragraph 4 of this manual, in particular

- the risk of squashing your hands in between the plates
- the risk of an electric shock
- the risk of burning your hands and arms on the heating plates

Wear protective gloves to avoid the risk of getting burned.

Implementing the Transfer Press

Plug the connector cable into a power socket of 220 V.

1) Open the air tap for the filter controller upwards.
2) Set the master switch from 0 to 1.
3) Check the connection between heating plate and control unit. Is the 6 pole connector securely plugged into the socket of the control unit?
4) Set the desired temperature.
5) Set the desired pressing time on the timer.

6) Adjust the incoming pressure at the instrument on the upper left side of the press. The printing pressure is shown on the manometer and can be adjusted using the pressure controller. To adjust the pressure, pull the pressure controller outwards and turn it

   - clockwise to increase the pressure
   - anti-clockwise to reduce the pressure

   After you have set the pressure, push the controller back into its original position.

7) Adjust the "real" printing pressure by turning the pressure controller on the right upper side of the press. To adjust the pressure turn it

   - clockwise to increase the pressure
   - anti-clockwise to reduce the pressure

8) Place the textile to be printed on the lower plate and position the plotted transfer onto it. Swivel the upper heating plate above the prepared lower supporting plate using the handles fixed to the side of the heating plate.

9) Press the two push buttons located on both sides of the pressure arm simultaneously. The heating plate will descend and after the pressing time has elapsed, it will be lifted automatically in its original position. The press is now ready for a new transfer process.

10) A new feature of TS DUO is the yellow stop-button in front of the heat press, which allows a stop of the pressing-process at any time. This can be used for any pre- or post-pressure situation. Just push the button to stop the pressing-process.

11) Switch off the transfer press when you do not use it.

WE HIGHLY RECOMMEND NOT TO TOUCH THE AIR FLOW CONTROLLER IN THE FILTER GROUP!

Operating Parameters

Please set the operating parameters (time and temperature) by using the display and the LEDs on the control panel.

Annotations

1. After you have pressed the "S" button (SET), "01" starts flashing on the display. When the flashing has stopped, set the desired temperature in Celsius on the electronic display: "+"

rises the temperature, "-" lowers the temperature. When the desired temperature is reached, confirm by pressing the "S" button.

2. After that you have to set the desired pressing time in seconds: "+" extends the time, "-" reduces the time. If the switch is pressed a second time, the data is saved and the
3. temperature set before is shown again on the display. The heat transfer press is ready for use as soon as the desired temperature is reached.

   It is always possible to check time and temperature by tapping the "S" button.

9. Maintenance

Following the safety directions mentioned below is essential to avoid severe injuries to the operator and / or damage to the transfer press.

Before performing any maintenance work, the transfer press must have been switched off and the plug must have been removed from the power socket.

Note the high temperatures of the heating plate (top). It can take up to 15 minutes until the plate has cooled down to a temperature below 50° C.

Carefully follow the instructions mentioned in this manual before performing any maintenance or cleaning work on the transfer press.

Maintenance work must only be performed by skilled and specially trained staff.

Before switching on the unit again after maintenance or cleaning work, ensure that no tools or spare parts have been left in or on the unit and that shrouds, safety appliances, graphic symbols and instructions attached to the press are in good condition and easy to read.

10. Dismantling and Disposal of the Transfer Press

All work for dismantling or disposal must be performed by sufficiently qualified staff.

A transfer press is an industrial unit. All applicable laws concerning the disposal of industrial machinery in the country of the user must be followed.

Disconnect the unit from the power supply and dismantle it. Sort the parts according to their composition, e.g. aluminium, plastic, steel, mineral wool etc. The disposal of these material groups must be performed in accordance to the applicable laws in the country of the user.

Strictly follow the safety instructions mentioned in this manual when dismantling the press.

11. Spare Parts List TS DUE

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1. base
2. swivel pin
3. piston
4. arm
5. cover of the heating plate
6. bracket (left and right)
7. cover of the instrument box
8. pressure piston
9. air filter controller
10. pressure controller
11. electronic valve
12. coil 24V
13. cogwheel rings
14. cable run
15. supporting plate support
16. ferrule
17. speed controller
18. heating plate
19. teflon rod
20. heating rods
21. temperature sensor
22. teflon cover
23. silicone rubber
24. supporting plate
25. control board S2
26. connection
27. start button
28. stop button
29. interchangeable connection
30. fuse box
31. switch
32. fuse
33. manometer
34. transformer (1 pce. 220/24V – 1 pce. 220/12V)
35. handle

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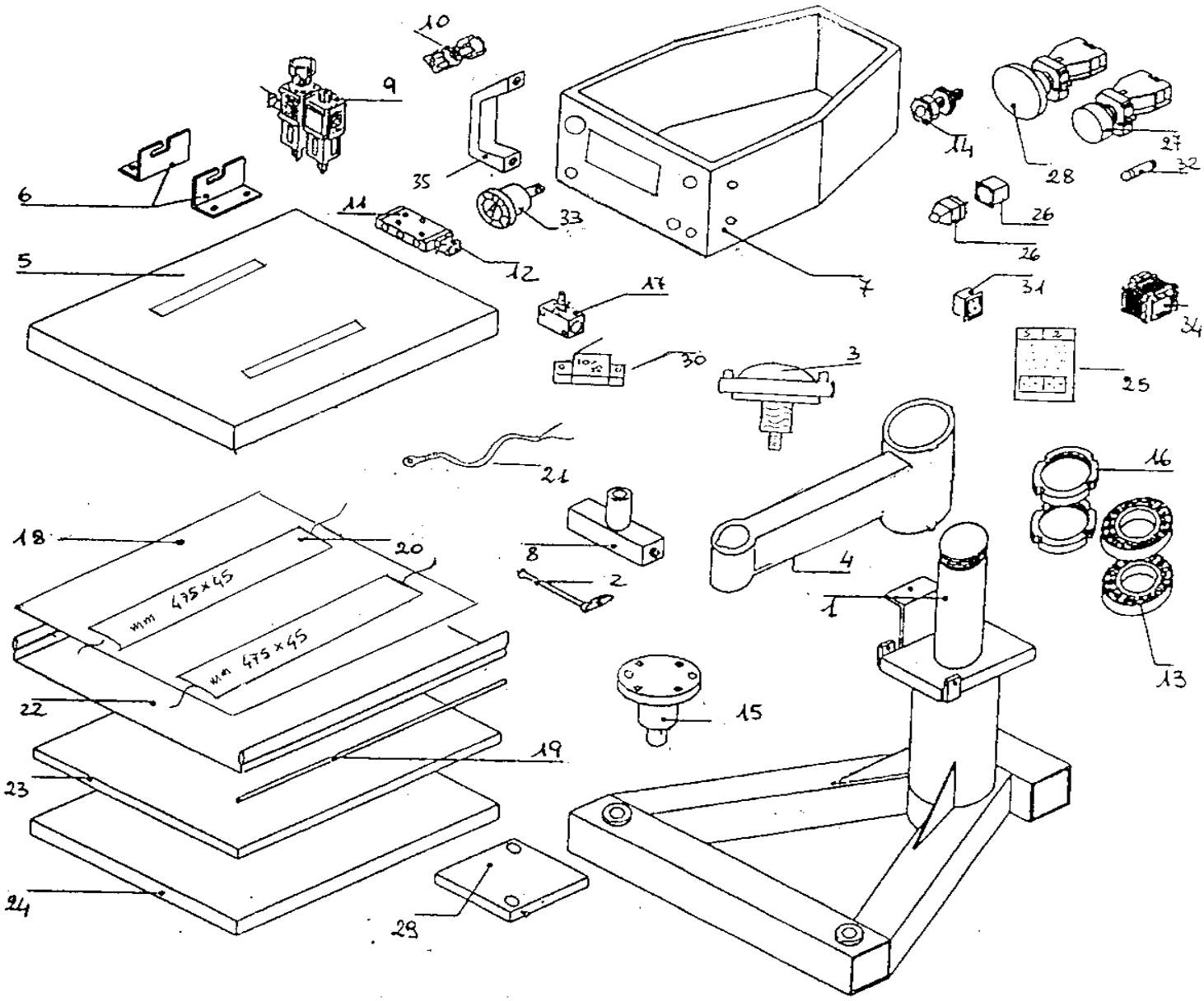
12. Exploded View Ts Due

Exploded view of transfer press with order numbers



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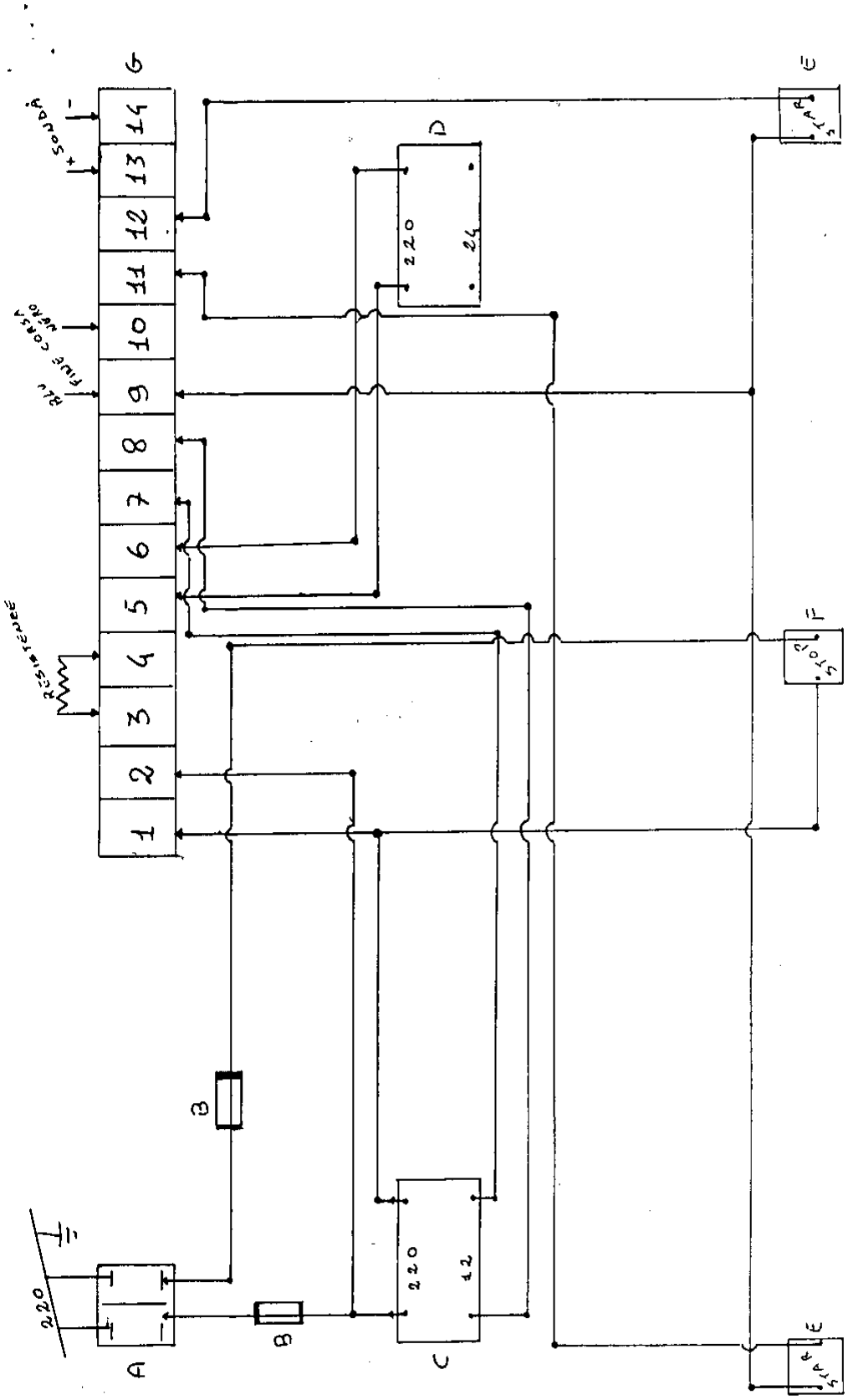
13. Electronic Diagram Ts Due



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14. Pneumatic Diagram Ts Due

1. filter controller
2. mini controller
3. electronic valve
4. control of air flow
5. end of piston run (PWS 101)
6. piston