

**SPORTARREDO<sup>®</sup>** S.p.A.  
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# MASTER SUN 360

**INSTALLATION, USE AND MAINTENANCE MANUAL**

**USA**

## INDEX

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## 1 - GENERAL INFORMATION

## 1.1 LABELS

<p>This device is intended to be used by only one person at a time. Lie on the bed and lower the canopy down to the stopping point.</p> <p><b>CAUTION:</b> EXPOSURE POSITIONS OTHER THAN SPECIFIED MAY RESULT IN OVEREXPOSURE AND ARE NOT RECOMMENDED.</p> <p>Tanning normally begins after one to two exposures and maximizes after one to four ( 1-4 ) weeks of exposure following the recommended schedule for your skin type.</p> <p><b>Wear protective eyewear.</b> <b>Eyewear:</b> SUN GLOBES</p>	<p>Read the instruction booklet before using tanning system.</p> <table border="1"> <thead> <tr> <th colspan="4">RECOMMENDED EXPOSURE SCHEDULE</th> </tr> <tr> <th>Skin Type</th> <th>Week 1 1st - 3rd Session</th> <th>Week 2 4th - 6th Session</th> <th>Week 3 7th-9th Session</th> <th>Subsequent Weekly Session</th> </tr> </thead> <tbody> <tr> <td>II</td> <td>3 min</td> <td>6 min</td> <td>8 min</td> <td>11 min</td> </tr> <tr> <td>III</td> <td>3 min</td> <td>6 min</td> <td>10 min</td> <td>12 min</td> </tr> <tr> <td>IV</td> <td>3 min</td> <td>7 min</td> <td>10 min</td> <td>13 min</td> </tr> <tr> <td>V</td> <td>3 min</td> <td>8 min</td> <td>11 min</td> <td>15 min</td> </tr> </tbody> </table> <p>First three sessions should be at 48 hour intervals. Followed by the gradual increasing of exposure times until maximum tanning has occurred (in approximately 4 weeks). MAXIMUM EXPOSURE is 15 minutes.</p>	RECOMMENDED EXPOSURE SCHEDULE				Skin Type	Week 1 1st - 3rd Session	Week 2 4th - 6th Session	Week 3 7th-9th Session	Subsequent Weekly Session	II	3 min	6 min	8 min	11 min	III	3 min	6 min	10 min	12 min	IV	3 min	7 min	10 min	13 min	V	3 min	8 min	11 min	15 min	<p>This product is in conformity with performance standards for sunlamp products under No. 21 CFR 1040.20.</p> <p>This appliance is intended to be used with the following lamps: <b>Kalfasun 630F 600W</b> <b>Kalfasun 1530F 1500W</b></p> <p>For replacement lamps, eyewear or parts, contact: <b>SPORTARREDO USA INC.</b> <b>200 South Wacker Drive</b> <b>CHICAGO, IL 60606</b> <b>(1-866-899-4826)</b></p>
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# 1 - GENERAL INFORMATION



**WARNING—ULTRAVIOLET RADIATION—FOLLOW INSTRUCTIONS—FAILURE TO USE PROTECTIVE EYEWEAR MAY RESULT IN SEVERE BURNS OR OTHER EYE INJURY—IF DISCOMFORT DEVELOPS, DISCONTINUE USE AND CONSULT A PHYSICIAN**

**ATTENTION—RAYONNEMENTS ULTRAVIOLETS—VEUILLEZ SUIVRE LES INSTRUCTIONS—SANS DISPOSITIF DE PROTECTION DES YEUX, CE PRODUIT PEUT CAUSER DES BRÛLURES OU LÉSIONS OCULAIRES GRAVES—SI VOUS SENTEZ UN MALAISE, EN DISCONTINUER L'USAGE ET CONSULTER UN MÉDECIN**

Avoid overexposure. As with natural sunlight, overexposure can cause eye and skin injury and allergic reaction. Repeated exposure may cause premature aging of the skin and cancer.

Medications or cosmetics may increase your sensitivity to the ultraviolet radiation. Consult physician before using sunbed if you are using medications or have a history of skin problems or believe yourself especially sensitive to sun light. If you do not tan in the sun, you are unlikely to tan from use of this product.

Éviter surexposition. Comme avec la lumière naturelle du soleil, la surexposition peut causer lésions aux yeux et à la peau et réactions allergiques. Une exposition répétée peut causer un vieillissement prématuré de la peau et cancer.

Médicaments et cosmétiques peuvent augmenter votre sensibilité aux rayons ultraviolets. Consulter un médecin avant d'utiliser la lampe à ultraviolets si vous utilisez médicaments, si vous avez problèmes de peau ou si vous croyez vous êtes particulièrement sensibles au rayons du soleil. Si vous ne bronzez pas avec le soleil, c'est improbable que vous pouvez vous bronzer en utilisant ce produit.

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CAUTIONI

CONNECT ONLY TO A CIRCUIT PROTECTED BY A CLASS  
A GROUND FAULT CIRCUIT INTERRUPTER

ATTENZIONI

BRANCHER SEULEMENT À UNE DÉRIVATION PROTÉGÉE  
PAR UN DISJONCTEUR DIFFÉRENTIEL DE CLASSE A

VALID ONLY FOR CAN/CSA

Cod.16986.200.0.0

- **AWERTENZA:** Non usare l' apparecchiatura se i filtri protettivi sono danneggiati o mancano!
- **ATTENTION:** Do not use the sunbed if the filter glasses are missing or damaged!
- **ACHTUNG:** Bei defekter oder fehlender Filterscheibe keine Bestrahlung vomerment!
- **ATTENTION:** Quand le filtres de protection manque ou sont abîmés, n' utilisez pas l' appareil!
- **ATENCIÓN:** No utilizar el aparato si faltan los filtros protectores o si los mismos están danados!

Cod.16986.203.0.0

**WARNING!**

**DISCONNECT POWER SUPPLY BEFORE OPENING UNIT**

**ACHTUNG!**

**VOR DER ÖFFNUNG DES GERÄTES SICH VERGEWISSEN, DASS DIE ELEKTRIZITÄT ABGESCHALTET IST**

**ATTENTION!**

**AVANT D' OUVRIRE L' APPAREIL, S' ASSURER QU' IL AIT ETE COUP LA TENSION D' ALIMENTATION**

**CUIDADO!**

**ANTES DE ABRIR EL APARATO HAY QUE ASEGURARSE DE QUE ESTE CORTADA LA TENSION DE ALIMENTACION**

**ATTENZIONE!**

**PRIMA DI APRIRE L' APPARECCHIO ACCERTARSI CHE SIA STATA TOLTA LA TENSIONE DI ALIMENTAZIONE**

Cod.16986.001.0.0

**WARNING:**

**GROUNDING CIRCUIT CONTINUITY IS VITAL FOR SAFE OPERATION OF EQUIPMENT. NEVER OPERATE EQUIPMENT WITH GROUNDING CONDUCTOR DISCONNECTED.**

**AVERTISSEMENT:**

**POUR UN FONCTIONNEMENT SÛR, NE JAMAIS, UTILISER CET APPAREIL QUAND LE CONDUCTEUR DE MISE A LA MASSE EST DECONNECTÉ.**

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**WARNING:**

**HIGH LEAKAGE CURRENT--ENSURE PROPER GROUNDING.**

**AVERTISSEMENT:**

**COURANT DE FUITE ELEVE- FOURNIIR UNE MISE A LA TERRE EFFICACE**

Cod.16986.136.0.0

## 1.2 INTRODUCTION

### IMPORTANT

BEFORE OPERATING THE MACHINE, READ THE INSTRUCTIONS CONTAINED IN THIS OPERATING MANUAL CAREFULLY AND COMPLETELY.

KEEP THIS MANUAL AND ALL ENCLOSURES IN AN ACCESSIBLE PLACE WHERE IT CAN BE REFERRED TO BY ALL USERS (OPERATORS, MAINTENANCE PERSONNEL AND THOSE CLIENTS WHO ASK FOR DETAILED INFORMATION).

This Technical Manual is designed for use by installers and operators, and should be read carefully and completely before the machine is operated. The manual should always be available for reference and should be kept in a safe place so that it stays in good condition for future reference. For further copies or updates of the manual, contact the manufacturer at the address on the front page.

Sportarredo SpA reserves the right to make changes to the product and to the manual without being obliged to update the preceding manuals.

This manual contains all the instructions and information necessary to operate the machine:

- Correct installation of the machine.
- Description of the functions of the machine.
- Circuit diagrams.

The installers and the operators can use this manual to understand the characteristics of the machine and to learn the correct operating procedure.

## 1.3 GENERAL TANNING INSTRUCTIONS

**DANGER!** Ultraviolet Radiation.

Follow instructions. Avoid overexposure. As with natural sunlight, overexposure can cause eye and skin injury and allergic reactions. Repeated exposure may cause premature ageing of the skin and skin cancer.

**WEAR PROTECTIVE EYEWEAR; FAILURE TO MAY RESULT IN SEVERE BURNS OR LONG-TERM INJURY TO THE EYES.**

**Medications or Cosmetics** may increase your sensitivity to the ultraviolet radiation. Consult physician before using sunbed if you are using medications or have a history of skin problems or believe yourself especially sensitive to sunlight. If you do not tan in the sun, you are unlikely to tan from the use of this product. This device is intended to be used by only one person at a time. Lie on the bed and lower the canopy down to the stopping point.

**CAUTION:** EXPOSURE POSITIONS OTHER THAN SPECIFIED MAY RESULT IN OVEREXPOSURE AND ARE NOT RECOMMENDED.

Tanning normally begins after one to two exposures and maximizes after one to four ( 1-4 ) weeks of exposure following the recommended schedule for your skin type.

### Skin type II.

This is the individual that usually burns easily and severely. Tans minimally or lightly and peels.

### Skin type III.

Often referred to as "average" complexion burns moderately and tans about average.

### Skin type IV.

This individual burns minimally, tans easily and above average.

### Skin type V.

This individual's system rarely burns, tans easily and substantially.

Session times are calculated for a supply voltage of 208V.

This product is in conformity with performance standards for sunlamp products under No.21 CFR 1040.20.

### RECOMMENDED EXPOSURE SCHEDULE

First three sessions should be at 48 hour intervals. Followed by the gradual increasing of exposure times until maximum tanning has occurred (in approximately 4 weeks). MAXIMUM EXPOSURE is 15 minutes.

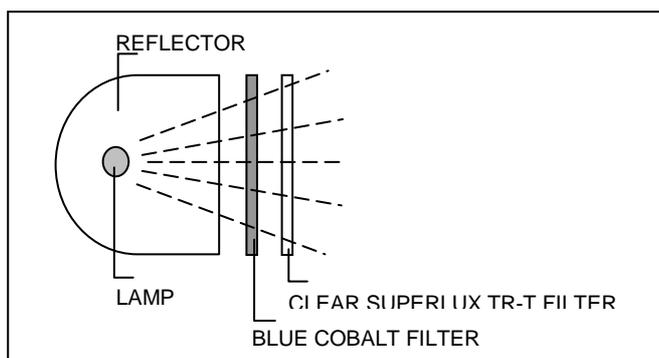
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II	3 min.	6 min.	8 min.	11 min.
III	3 min.	6 min.	10 min.	12 min.
IV	3 min.	7 min.	10 min.	13 min.
V	3 min.	8 min.	11 min.	15 min.

This schedule is intended to be used with the following lamps:

**Kalfasun 630F**

**Kalfasun 1530F**

Blue cobalt filter and clear Superlux TR-T filter (together).



#### 1.4 TRANSPORT AND HANDLING

The machine is carefully protected and loaded onto pallets before shipping. The various parts of the machine must never be transported or stored in positions which differ from the positions in which they are shipped. In this case, the warranty shall be null and void.

The machine must be handled with care in order to prevent the risk of damage to the packaged sections. All handling operations should be carried out by authorized and trained personnel. When the machine is delivered, immediately check that the packaging material is whole and that no damage has occurred during transport.

Any damage to the machine must be notified to the carrier not later than **eight calendar days** from the date of delivery. If internal damage is suspected, it is advisable to accept the machine reserving the right to check accordingly.

**THE CARRIER IS RESPONSIBLE FOR ANY DAMAGE OCCURRING DURING TRANSPORT OF THE MACHINE. SPORTARREDO WILL MAKE EVERY EFFORT TO ASSIST THE CLIENT IN SUCH CASES**

**ALL MAINTENANCE OF THE MACHINE MUST BE PERFORMED BY SPECIALIZED TECHNICIANS FROM SPORTARREDO OR BY PERSONS AUTHORIZED BY SPORTARREDO USA INC.**

**IMPORTANT !  
ALWAYS DISCONNECT THE MACHINE FROM THE POWER SUPPLY BY PRESSING THE SWITCH BREAKER BEFORE CARRYING OUT MAINTENANCE**

#### 1.5 PREPARATION FOR INSTALLATION BY THE CLIENT

Unless otherwise expressly specified in the contract, the following must be provided by the client:

- Connections to the electrical circuit, including the protective wire generally referred to as the "EARTH CONNECTION", unit feeding cable, power plug and circuit breaker.
- Canalization system for the emission of hot air.
- External air intake.
- All tools and equipment necessary for installation.

**THE UNIT IS SUPPLIED FOR INPUT VOLTAGE AT 230V 3phase 60 Hz AND IT IS SUPPLIED WITHOUT THE FEEDING CABLE**

*To make a power cable connection or voltage-change, make reference to the chapter "INSTALLATION" paragraph "VOLTAGE-CHANGE" and to the MASTERSUN 360 n° 1/10 electrical diagram.*

**These operation must be done by technical personnel.**

THE BREAKER MUST BE INSTALLED IN THE POWER SUPPLY BOARD OF THE ESTHETICAL CENTRE AND IT MUST BE DONE BY THE CENTRE ITSELF.

Mod. MASTERSUN 360:

3x80A-30mA to feed 230V - 3phase 60Hz

2x125A-30mA to feed 230V - 1phase 60Hz

**The installation must be done by technical personnel.**

THE POWER SUPPLY CONNECTION (UNIT-BOARD) MUST BE DONE BY THE CENTRE. THE SKILLED TECHNICIAN MUST USE A CERTIFIED CABLE WITH THE PROPER SECTION AND WITH ADEQUATE MECHANICAL PROTECTION, IN ACCORDANCE WITH THE RULES IN FORCE. SEE CHAPTER 2.1 TABLES FOR TECHNICAL DATA "POWER SUPPLY CABLE SECTION"

PLEASE CONTACT THE CUSTOMER SERVICE AT PHONE NUMBER

1-866-899-4826 FOR ANY FURTHER DOUBT

**Before the evening closing, or the closing for a prolonged period you should operate on the breaker in order to disconnect the power supply.**

TO HAVE A CORRECT USE OF THE EQUIPMENT, THE ROOM TEMPERATURE **MUST NOT EXCEED THE 86°F DEGREES**. IF ROOM TEMPERATURE EXCEEDS THIS VALUE, WE SUGGEST TO UTILIZE AN AIR-CONDITIONING UNIT.

## 2 - SAFETY INFORMATION

### 2.1 GENERAL

The employer must ensure that the persons assigned to the operation of the machine receive adequate training concerning possible accident risks, the devices fitted for the safety of the operator and the client, the risks associated with the emission of UV light and the general accident-prevention regulations specified by international norms and local legislation.

Those responsible for operation, maintenance, cleaning and control of the machine must adhere strictly to the accident-prevention regulations applicable in the country in which the machine is installed.

Before operating the machine, the operator must be completely familiar with the position and the function of all the controls and with the characteristics of the machine. The operator must read this manual carefully and completely.

The machine must be operated by fully-qualified operators only.

Removal of the **safety devices** and protective barriers is strictly forbidden.

No heavy weights must be placed on the moving parts of the machine. The ventilation ducts and intake grilles must not be obstructed by foreign bodies.

The machine must always be switched off and disconnected from the power supply before performing any routine or special maintenance operations.

Unauthorised replacement of or repairs to any part or section of the machine, or the use of accessories or material that are not original or recommended by the manufacturer, may represent a risk of injury, and exonerate the manufacturer from all civil or penal liability.

It is forbidden to stay near the appliance while it is operating without eye protection.

**"DANGEROUS ZONES"**: any zone internal to or in the vicinity of the machine in which the presence of an exposed person constitutes a risk for the safety and the health of that person.

**"EXPOSED PERSON"**: any person who is wholly or partly in a dangerous zone.

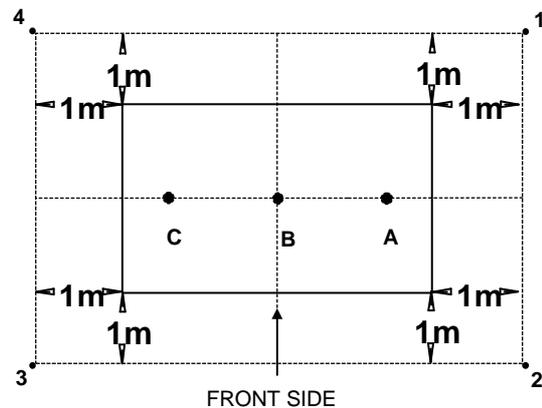
**"OPERATOR"**: person or persons assigned to the installation, operation, adjustment, maintenance, cleaning, repair and transport of the machine.

### 2.2 NOISE

The machine is designed and built in such a way as to reduce operational noise as follows:

- Effective normalized sound power during operation, see diagram below:  
**1** = 74 dB (A) max   **2** = 73,5 dB (A) max   **3** = 73,6 dB (A) max   **4** = 73,3 dB (A) max
- Effective sound pressure with simulation of the actual position of the person being treated:  
**A** = 77,5 dB (A) max,  
**B** = 78 dB (A) max,  
**C** = 77,7 dB (A) max.

The figures shown above have been determined according to ISO 3746.



### 2.3 REGULATIONS

**Standard for Safety Portable Sun/Heat Lamps, ANSI/UL 482, UL Issue: 2005/09/02 Ed: 9 Radiant Heaters and Infrared and Ultraviolet Lamp Assemblies for Cosmetic or Hygienic Purposes in Nonmedical Applications General Instruction No 1-2 (R2004), CSA C22.2 No.224, Issue: 1989/09/01.**

In the planning of this unit the following rules and provisions of the European Community have been taken in consideration:

**ECC Directive N. 91/368 dated 20.06.91, N.93/44 dated 14.06.1993, N.93/68 dated 22.07.93.**

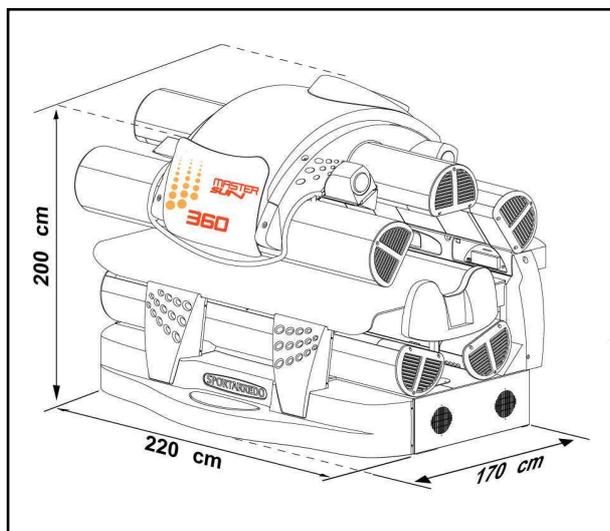
**ECC Directive N.73/23 dated 19.02.73** known as "low voltage directive".

**ECC Directive N.89/336 dated 03.05.1989** known as "Electronic compatibility directive".

**En 60335-2-27 II part** Special standard for units for the treatment of the skin with ultraviolet and infrared rays for home use and similar use.

### 3 - TECHNICAL DATA

#### 3.1 DIMENSIONS AND TECHNICAL DATA MASTERSUN 360



MAXIMUM LENGTH	220 cm	86" in
MAXIMUM WIDTH	170 cm	67" in
MAXIMUM HEIGHT	200 cm	78" in
WEIGHT	880 Kg	1940 lb

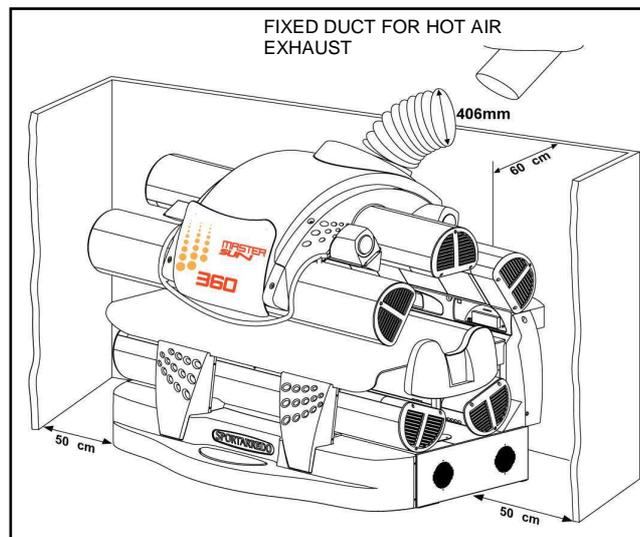
MASTERSUN 360	U.M	DATA	
POWER SUPPLY	V	230V 3ph 230V 1ph	
NOMINAL POWER	KW	25,3	24,1
NOMINAL CURRENT	A	66	112
FREQUENCY	Hz	60	
WIRE SIZES	AWG	4	1
NUMBER OF WIRE REQUIRED		4	3
EXHAUST AIR FLOW	m³/h	4x875	
EXHAUST FAN PRESSURE	Pa	0÷200	
HEAT PRODUCED	Kcal/h	21800	
HEAT EXPELLED	Kcal/h	13100	
FACE LAMPS TYPE	No.	3xKALFASUN 1530F	
CANOPY LAMPS TYPE	No.	4xKALFASUN 1530F 11xKALFASUN 630F	
BASE LAMPS TYPE	No.	12xKALFASUN 630F	
THERMIC PROTECTION 2x90°C			
THERMIC PROTECTION 3x110°C			

#### UV EMISSION

SEE RAY EMISSION CERTIFICATE

### 4 - INSTALLATION

#### 4.1 PRE-INSTALLATION



In order to ensure correct operation of the machine, it should be installed in an area which has been prepared as shown in the figure.

The connection of the exhaust air pipe must have on the first part (50-60 cm / 19"-23" inch from the edge of the fan) the minimum curving. This device has to be done to reduce the noise of the fan caused by the resistance of the hair, to improve the cooling of the lamps and to have a better air flow during the tanning session.

#### 4.2 CONNECTION

The area in which the machine is installed **must be adequately ventilated, fit the area with an air intake from outside if necessary**. To improve the technical comfort we suggest to connect the tube to expel the hot air to a fixed duct to expel the air outward

- The metal structure of the machine is earthed by means of insulated wires connected to the earth terminal in the electrical junction box.
- The earth circuit must be in full compliance in accordance with the rules in force.
- The earth connection must also be fitted to low-voltage systems situated in wet or very damp areas (if the voltage to earth is in excess of 25V for alternating current or 50V for direct current).
- The earth wires connected to every part of the various sections of the machine and the earth wires from the various power circuits and user groups must be connected to a single earthing circuit.
- Ensure that the materials used for the earth system are suitably robust and provided with adequate protection.
- The connection to the main earth terminal should be as short as possible. The earth wires should not be subjected to mechanical stress of any kind, and must be protected against corrosion.

### 4.3 ASSEMBLY INSTRUCTIONS

#### SEE ENCLOSED FIGURES

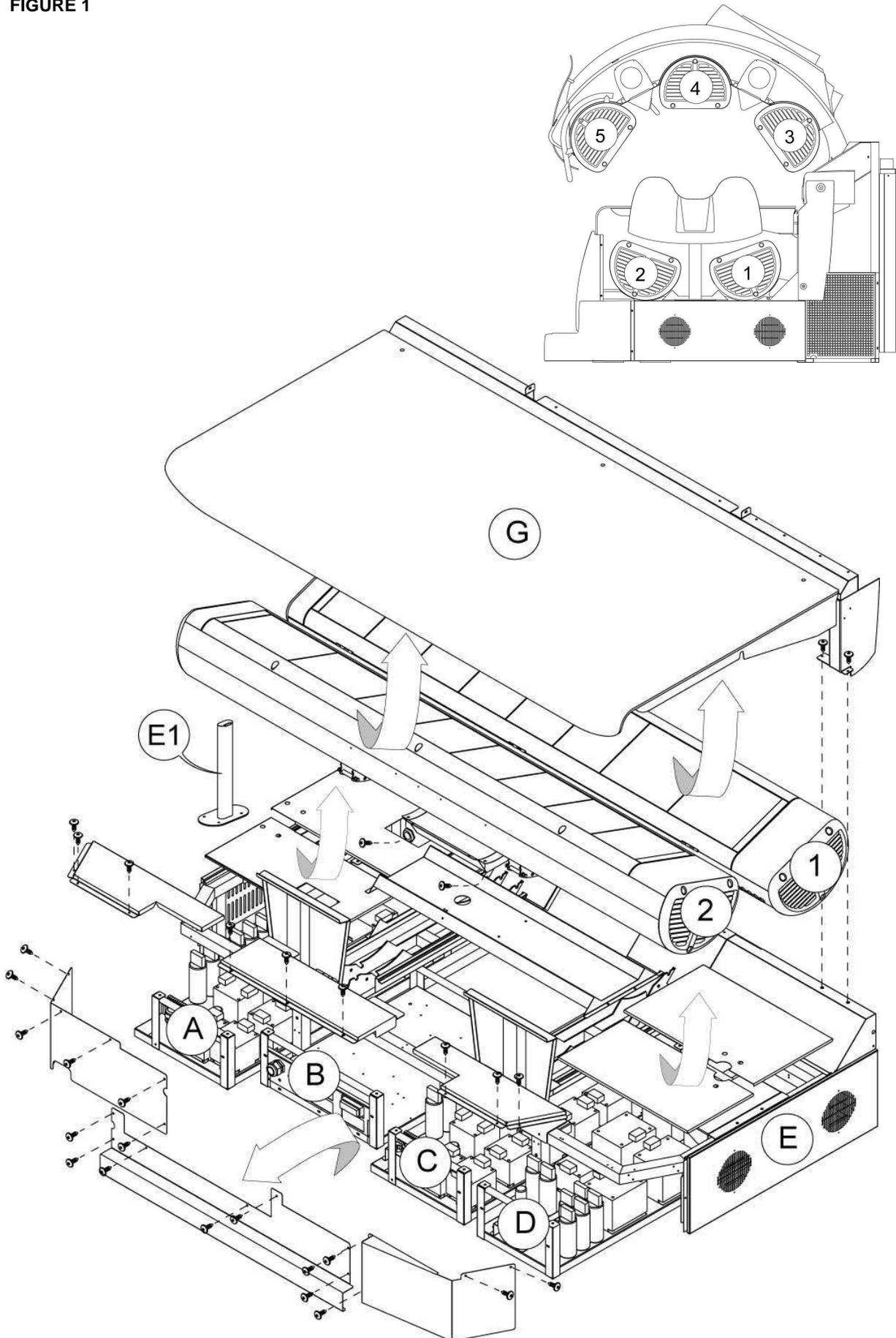
- 1 - Position the lateral **F** on the floor at the minimum distance at least 23" inc from the wall (see paragraph 4.1 Pre-installation).
- 2 **Figure 1**  
Open the packaging of basement **E**.  
In case you need to install the unit into the booth/room with a narrow door it is necessary to dismantle the basement as shown. Otherwise follow the assembling instructions at point 3.  
Remove the screws 4,8x13 of the structure that holds the body acrylic **G** and put it aside.  
Remove the screws 4,8x13 of the metallic covers that protect frontally and upper the **ABCD** feeding boxes.  
Remove all the 4 **ABCD** feeding boxes.  
Remove the screws 4,8x13 of the air conveyor positioned under the column no. **2**.  
Remove column **2**.  
Remove column **1** with the conveyor assembling.  
Remove the screws 6x20 of the small column **E1**.  
Remove the metallic covers positioned under columns **1** and **2**.
- 3 **Figure 2**  
Now the basement **E** is completely dismantled, put it to the lateral **F**. Assemble the basement **E** to the lateral **F** with 4 screws M12x60 and 16x36 washer.  
Remove the panel in the lateral rear, fixed with 4,8x13 screws.
- 4 **Figure 2-3**  
Position the **ACD** ballast boxes in front of the basement. Before inserting the **D** ballast box, make the connector CNT4 come out in the rear of the lateral. The CNT4 cable connector is very long and it must be withdraw into itself through the left side of the lateral. The cable must be stopped by the provided sheets and rests next to the white signs. It mustn't rest on the ballasts.  
Insert the ballasts box **D**.  
Insert the ballasts box **A** withdrawing the cables CMB1-CNB2 on the left side of it  
Before inserting the **C** ballasts box, make the CNT3 connector come out from the right side of lateral and the CNT5 connector from the left side. The cables of the connectors must be withdraw into themselves.  
Insert the ballasts box **C**.  
Place and fix the metallic covers on the ballasts boxes with 4,8x13 screws.  
Take the CNL connector from the lateral and get it through the ballasts boxes side.  
Make the connectors pass through the inner side of the head arms insertion:  
-CNT3- CNW3 to right DX  
-CNT4-CNT5 to left SX
- 5 **Figure 4**  
Assemble the column **1** with the conveyor.  
Connect the CNB1 connector from the **A** ballasts box to the column **1**.  
Assemble the column **2** and fix to it the conveyor using 6 screws 4,8x13.  
Connect the CNB2 connector from the **A** ballasts box to the column **2**.  
Assemble the cooling conveyor of acrylic **H** on the frontal side of the lateral using 4,8x13 screws.
- 6 **Figure and photo 5**  
Connect the 4 flexible grey pipes that convey the air into the lateral white plastic clamps.  
Connect the two black connectors CNW1-CNW2 of the fans into the lateral.  
Fix into the provided sheets of the lateral these connectors:  
-CNT3- CNW3 to right DX  
-CNT4-CNT5 to left SX  
Assemble the rear panel of the lateral using 4,8x10 screws.
- 7 **Figure 6**  
Assemble the structure using the screws 4,8x13 the structure that hold the body acrylic **G**.  
Insert the brackets **Z** on lateral **F** fixing them with one security hexagonal-head 10x90 screw.
- 8 **Figure 7**  
Insert the columns **3-4-5** in sequence. Assemble them to the **Z** brackets with the security hexagonal-head 10x90 screws and the self-blocking bolt from inside to outside.
- 9 **Figure 8**  
Assembling in sequence with 4,8x13 screws the **H2** covers with the two fans for hot air extraction. Assembling the screws terminal- connector CNT3-CNT4 and connect the white plugs of fans. The part number 4 must be fixing to under with 4,8x13 screws.  
Assemble in sequence with 4,8x13 screws the **H1** cover fan. Assemble the screws terminal-connector CNT5 and connect the white plug of the fan. (Follow the sequence numbered).  
Assemble the transversal tube **H3** using hexagonal-head 8x20 screws and 8x15 washer.

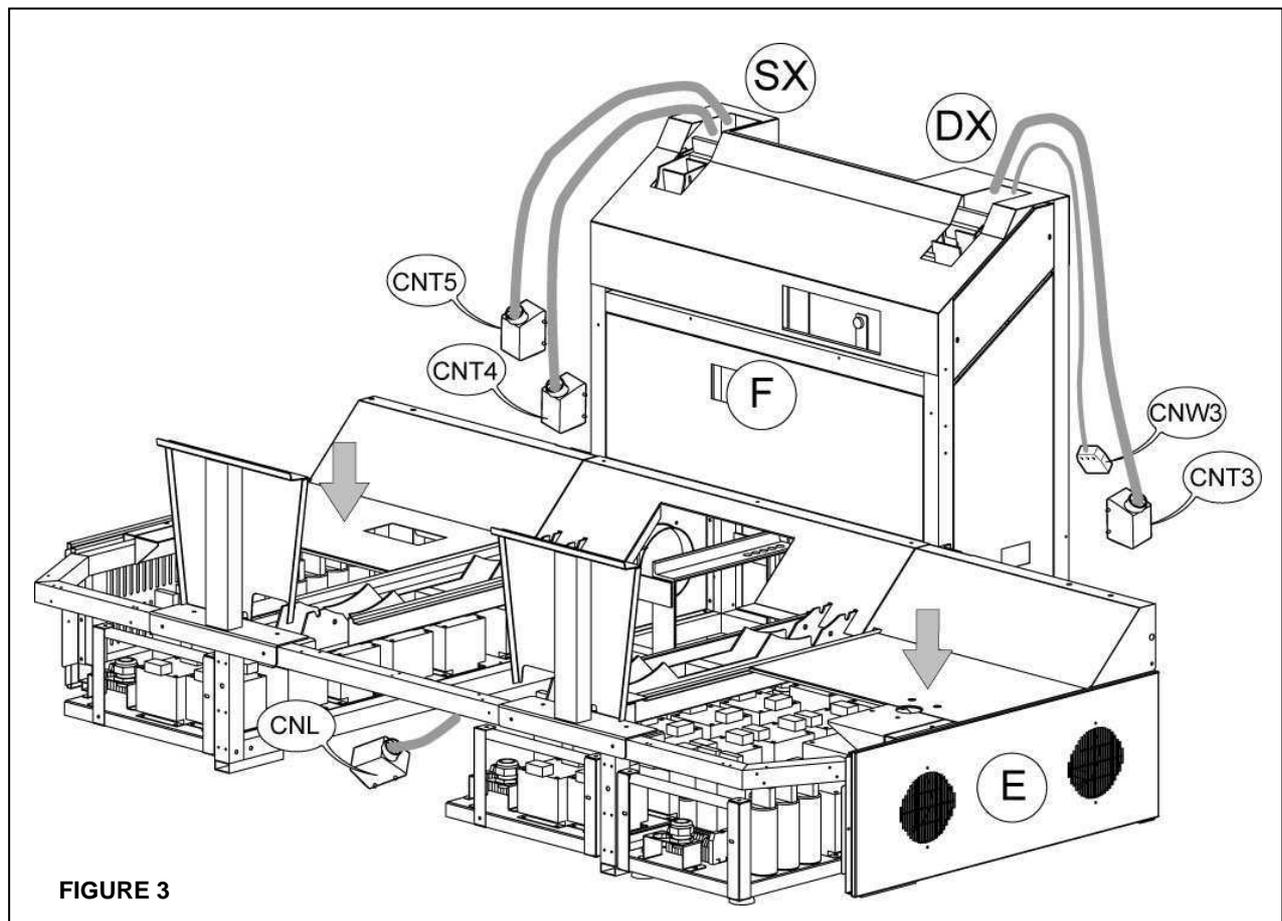
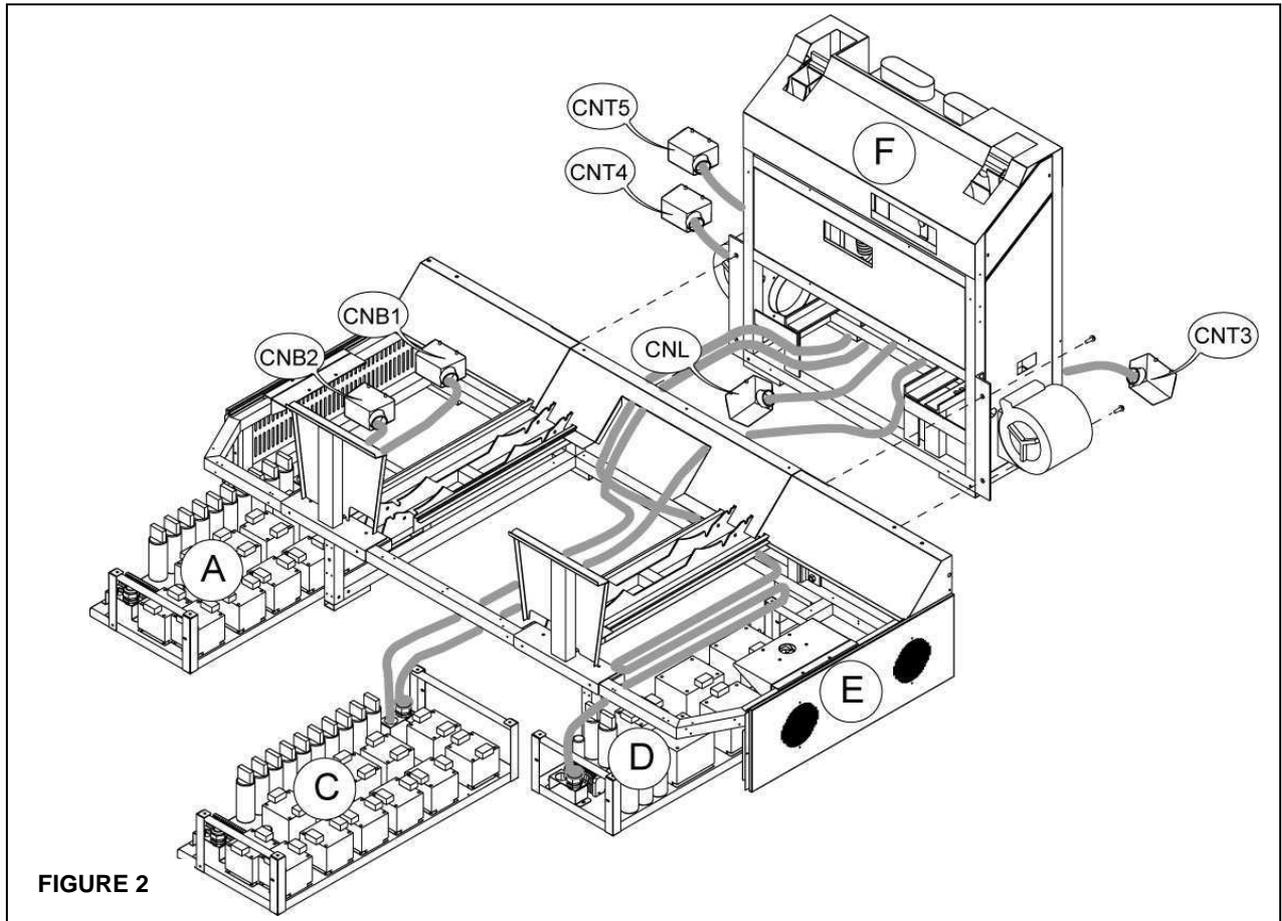
- 10 Figure 9  
Assemble the **L** sheets for the support of the cooling body conveyors on the brackets **Z** using 5x15 screws and 5x15 washer. The air body conveyor with handle has to be inserted between columns **4** and **5**.  
Assemble the **M** air body conveyors without the fan plastic covers with hexagonal-head 6x20 screws.  
Fit the canopy connectors CNT3-CNT4-CNT5 inserting them under the **L1** sheets (see figure 9).  
Insert the plastic covers M1 on the fans.  
Connect the grey pipes for the air convey.  
Make the connectors pass through CNT3-CNT4-CNT5 inside the brackets **Z** (right DX-left SX), the cables must be fixed to the provided rests next to the white signs. Insert the cables as shown in figure under the **L1** sheet and connect them on conveyor **H1-H2** according indications.  
Assemble the **M1** cover plastic on fans.  
Connect the flexible grey pipes that convey the air.  
Connect the black connectors CNW3-CNW7-CNW8-CNW9 positioned at the lateral of the convey **H1**.
- 11 Figure 10  
Assemble the cover **N** with 2 screws 6x20 in the rear and in front with 2 screws 6x25 with teflon washer.  
Insert the two yellow neon lamps **N1**.  
Assemble the two caps **N2** with 6x20 screws and teflon washer.  
Insert the panel **N3** silkscreen printing: *Mastersun 360* with 6x20 screws and teflon washer.
- 12 Figure 11  
Remove the 5x15 screw with washer and remove the tubes **P** that block the mechanical rising of unit. Assemble the **G1** sheets (right-left), with 4,8x13 screws.
- 13 Figure 12  
Assemble the **Q** box of control board using the 4 hexagonal-head 6x20 screws with 6 washers.  
Connect the CNC and CN2 connectors of fan **V** below.  
Assemble the grating cover fan **V** with 4,8x13 screws connecting the earth wire.  
Assemble the cover fan **V1** with 4,8x13 screws connecting the earth wire.  
Assemble the antenna on **Q** control board box.  
Insert and fix the lateral plastic cover **Q1** using 6x20 screw with teflon washers.  
Assemble the lateral cover plastic **Q2** with 4,2x22 black screws.
- 14 Figure 13  
Raise the **R1** body acrylic. Fix the pistons tighten up and block with release (with small pins) in the lower part.  
Assemble the column **S** and use 4 screws 6x20 with the dent facing toward inwards.  
Position the loudspeakers column **S** and before assembling using 4 screws 6x20 connect the white connector CN1.  
Insert on the columns **S** the sheets **S1** for acrylic supports.
- Insert between the columns **1** and **2** the acrylic tube.  
Insert the **R2** acrylic into the **H** conveyor and place it on the small sheet **S1** and on the acrylic tube.  
Rise the body acrylic **G**.
- 15 Figure 14  
Insert partially the **B** feeding box in to the basement. Insert the feeding cable (see also figure 16 with change voltage) and connect it to the power supply terminal board. Finally insert completely the **B** feeding box in to the basement and connect the connectors: CNRT-CNRB-CNRV-CNL-CNW4.  
Assemble the neon-holder with the 18W lamp in correspondence of the feeding box **B** using 2 screws 4,8x13 and connect the connector CNW5.  
Assemble the metallic cover sheets on all ballasts boxes and afterwards those in front using 4,8x13 Screws.
- 16 Figure14  
Assemble the **U** frontal plastic basement with 4,2x22 black screws. Lift the body acrylic and assemble the orange covers plastic **U1** on the columns of acrylic support using 4,2x22 black screws.  
Rise the body acrylic.  
Place the gel carpet on the **U** basement.  
Place the gel cushion on body acrylic.
- Switching on the equipment the lamps don't switch on at the same moment but in sequence: in order to avoid excessive picks if current absorption.
- Check that the all fans emit air, just putting the hand in front.
- Remove the numbers labels 1-2-3-4-5 on columns.
- WARNING!**  
In the control box there is a safety timer set this timer at a value 10% longer than the maximum session time.  
e.g.: session time 15 min set the safety timer to 16,5 min.



FIGURE 1

## COLUMNS NUMBERS





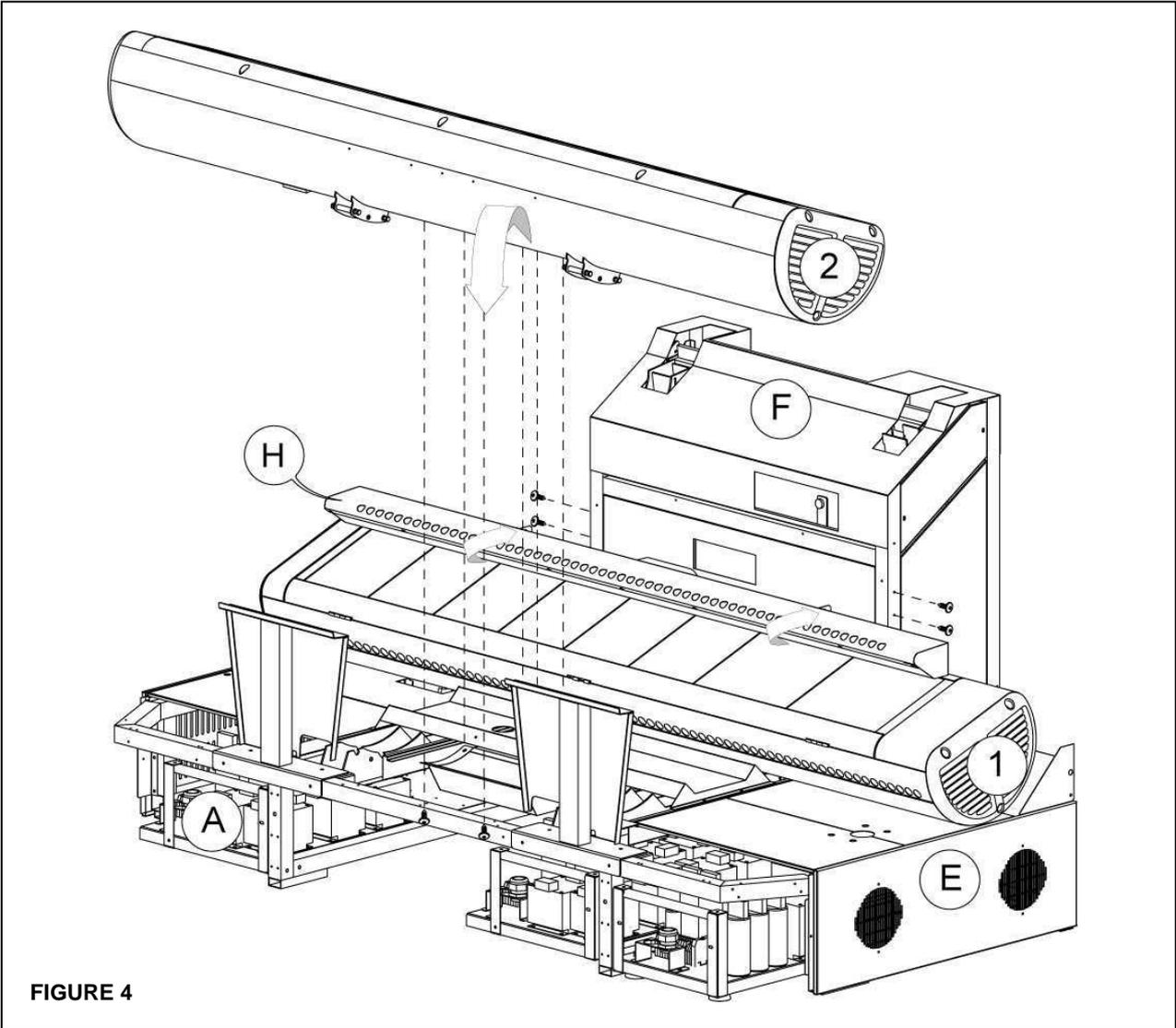


FIGURE 4

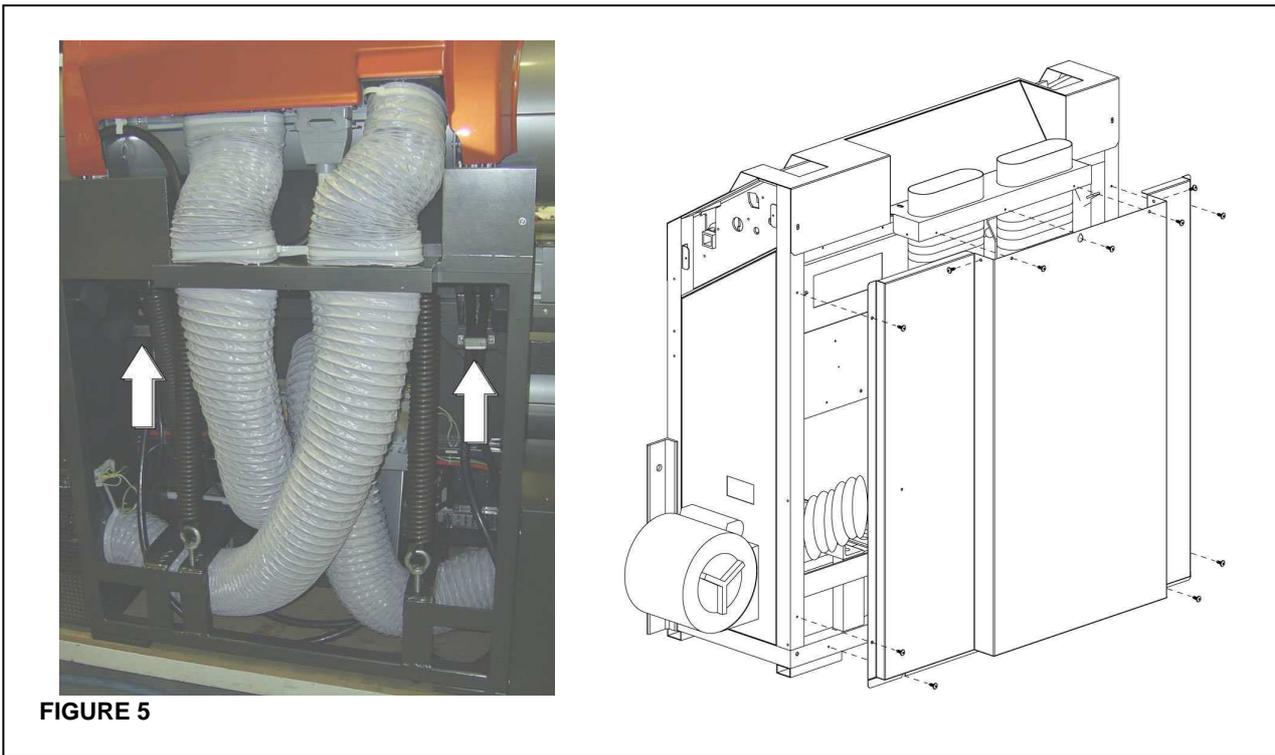


FIGURE 5

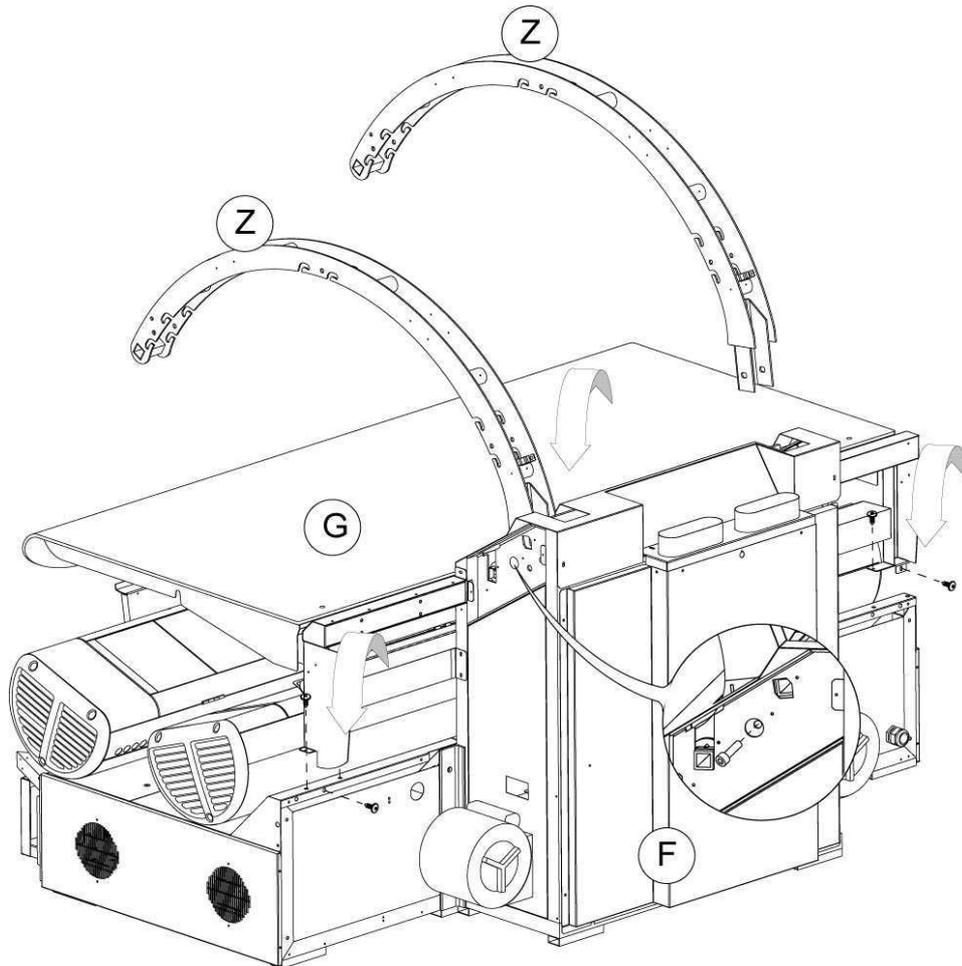


FIGURE 6

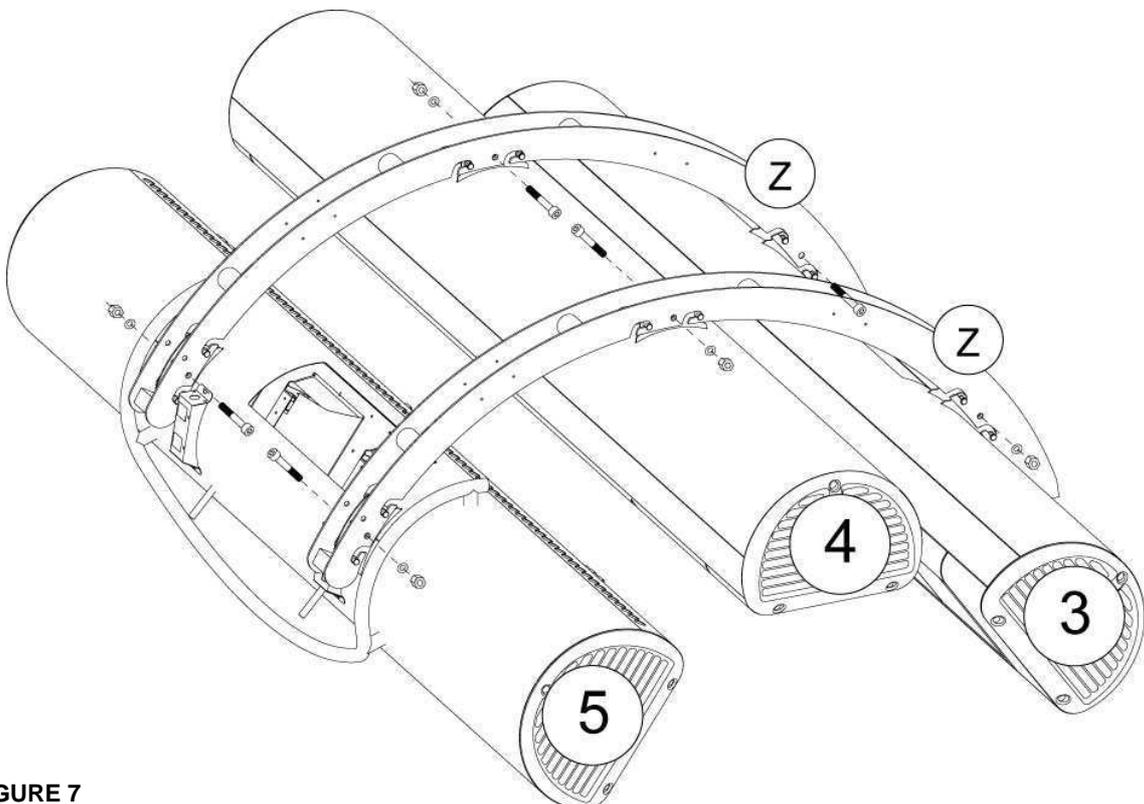


FIGURE 7

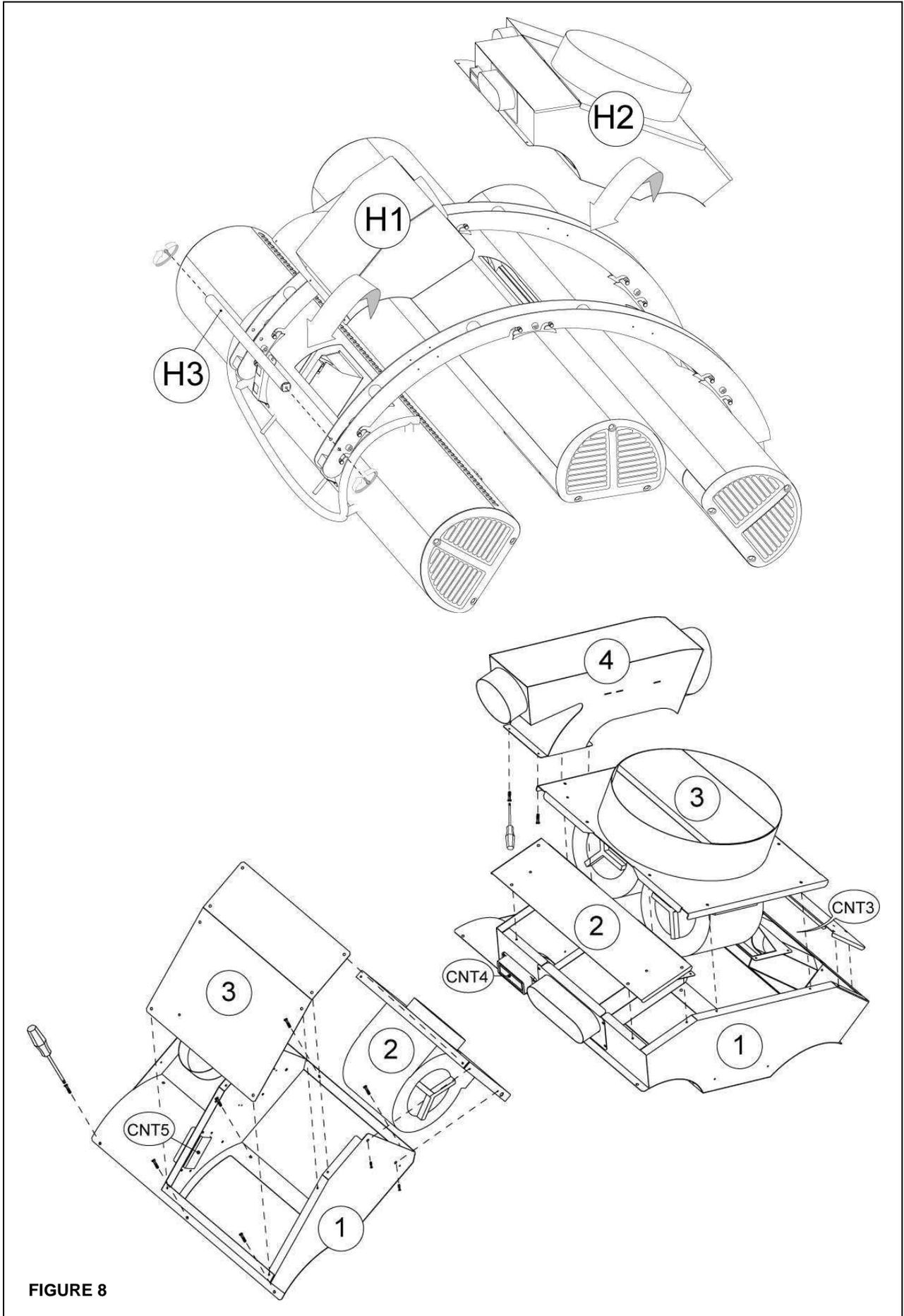
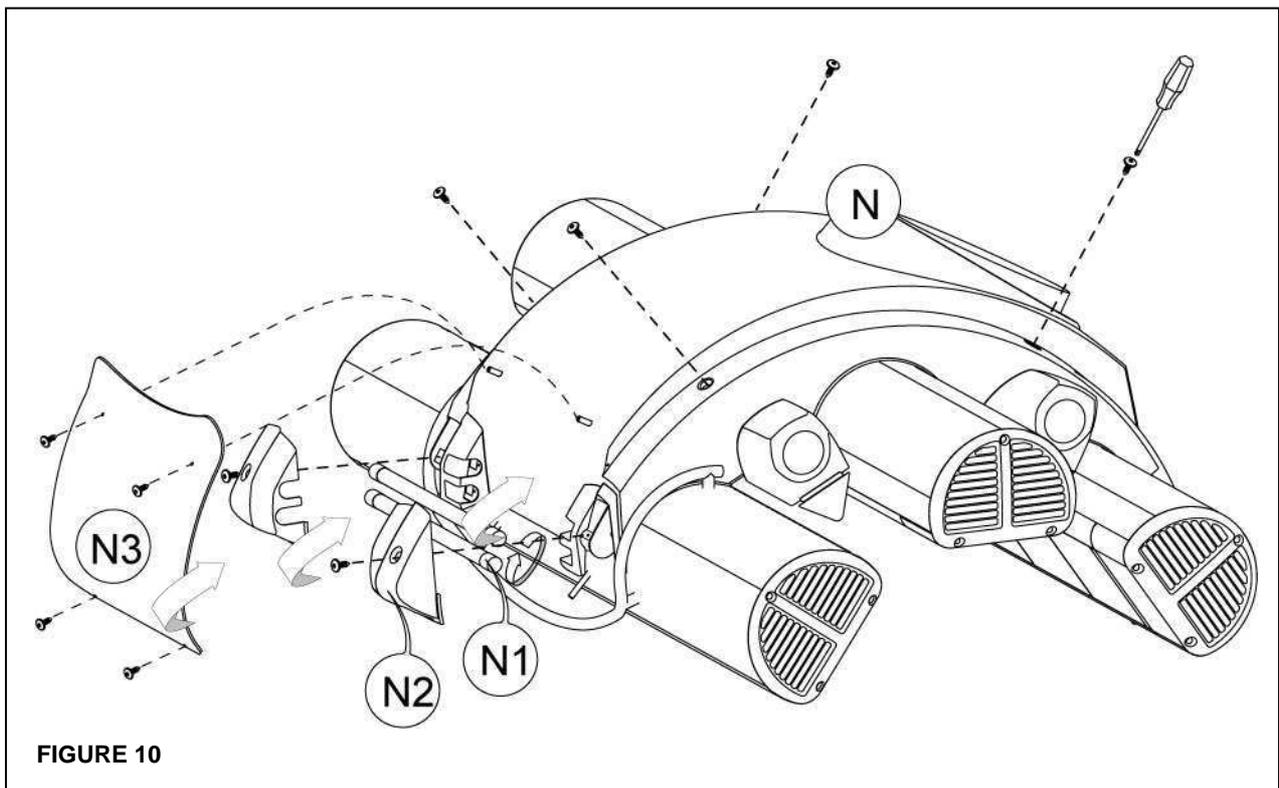
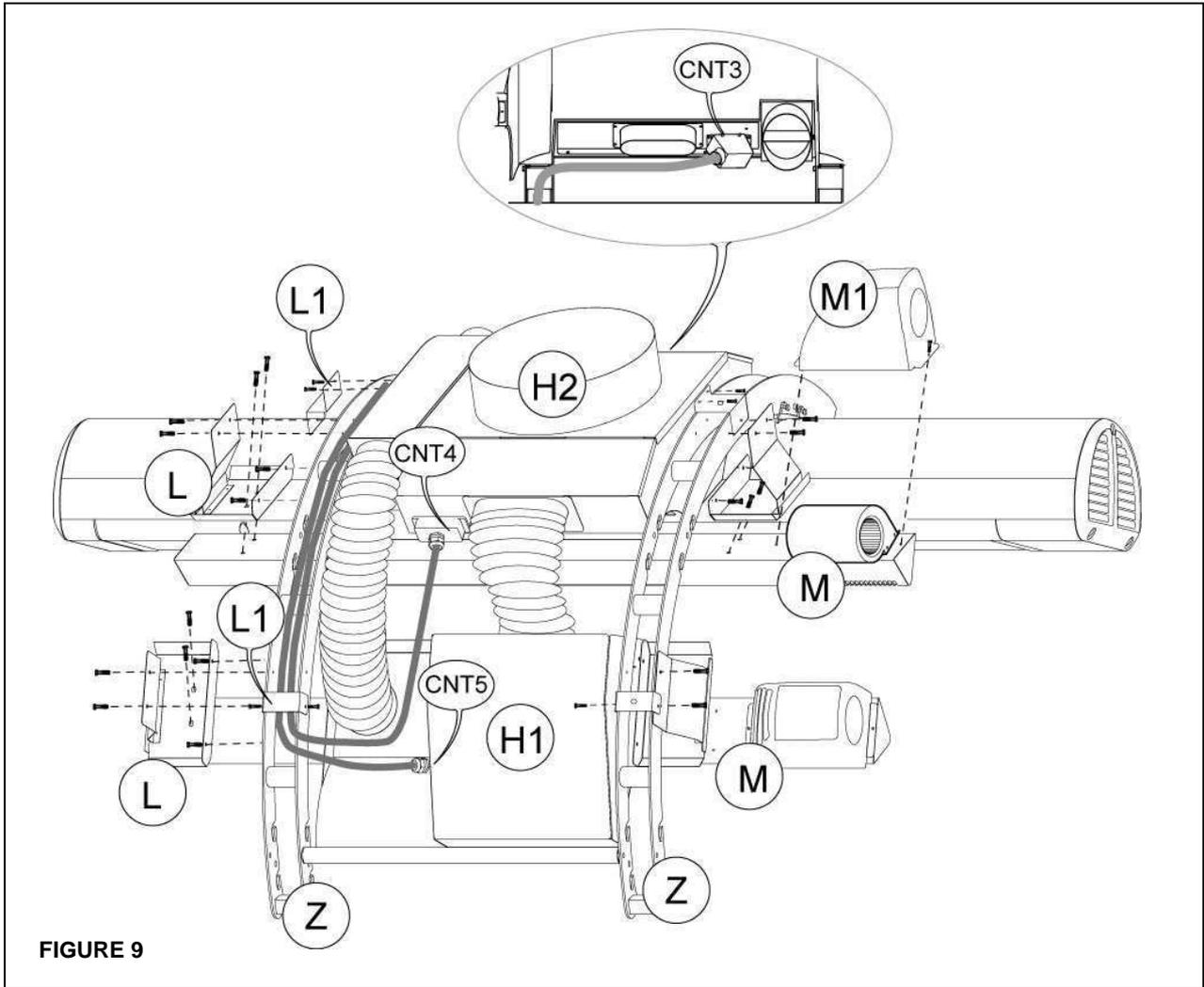
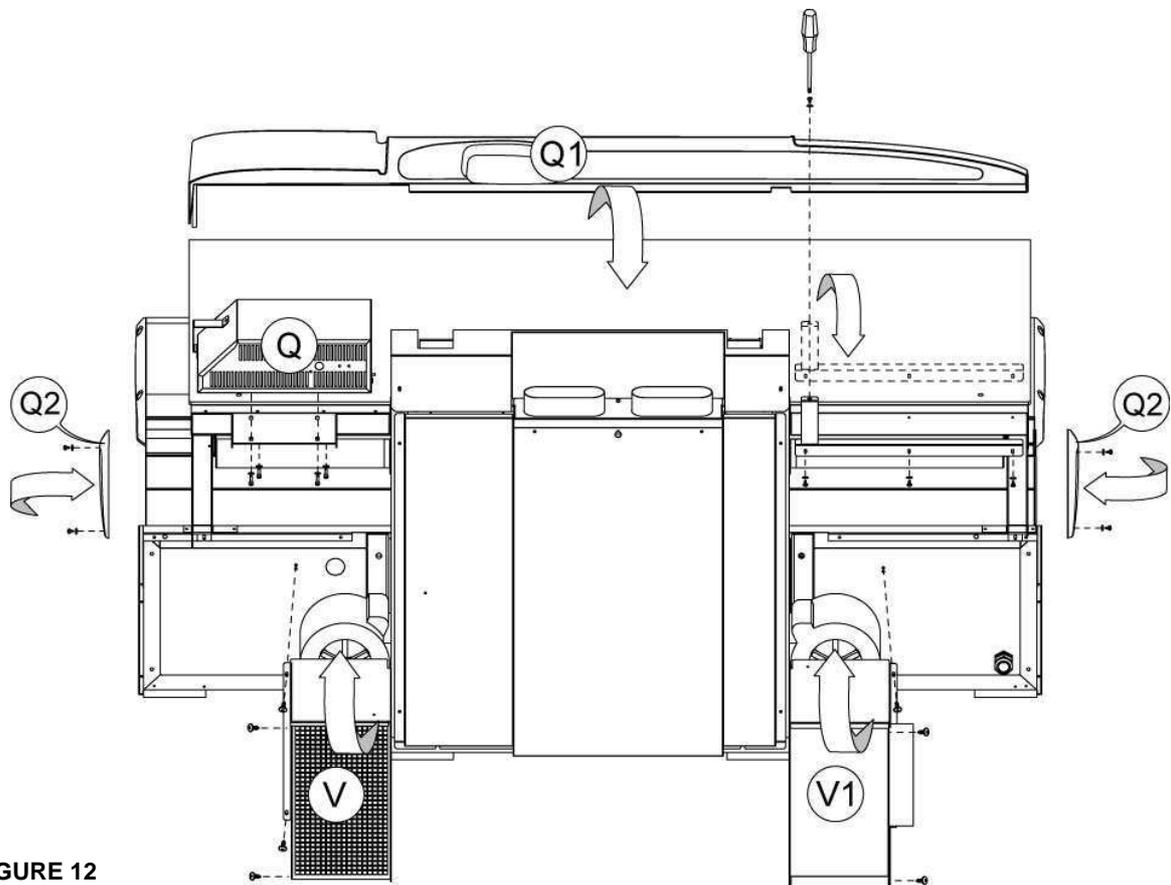
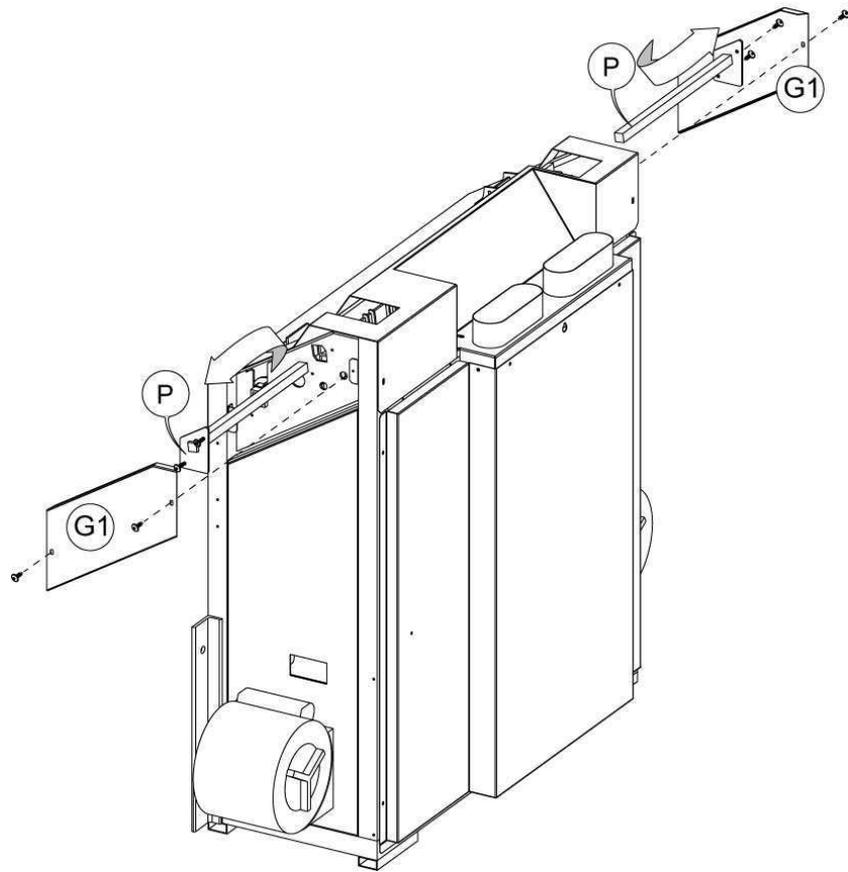
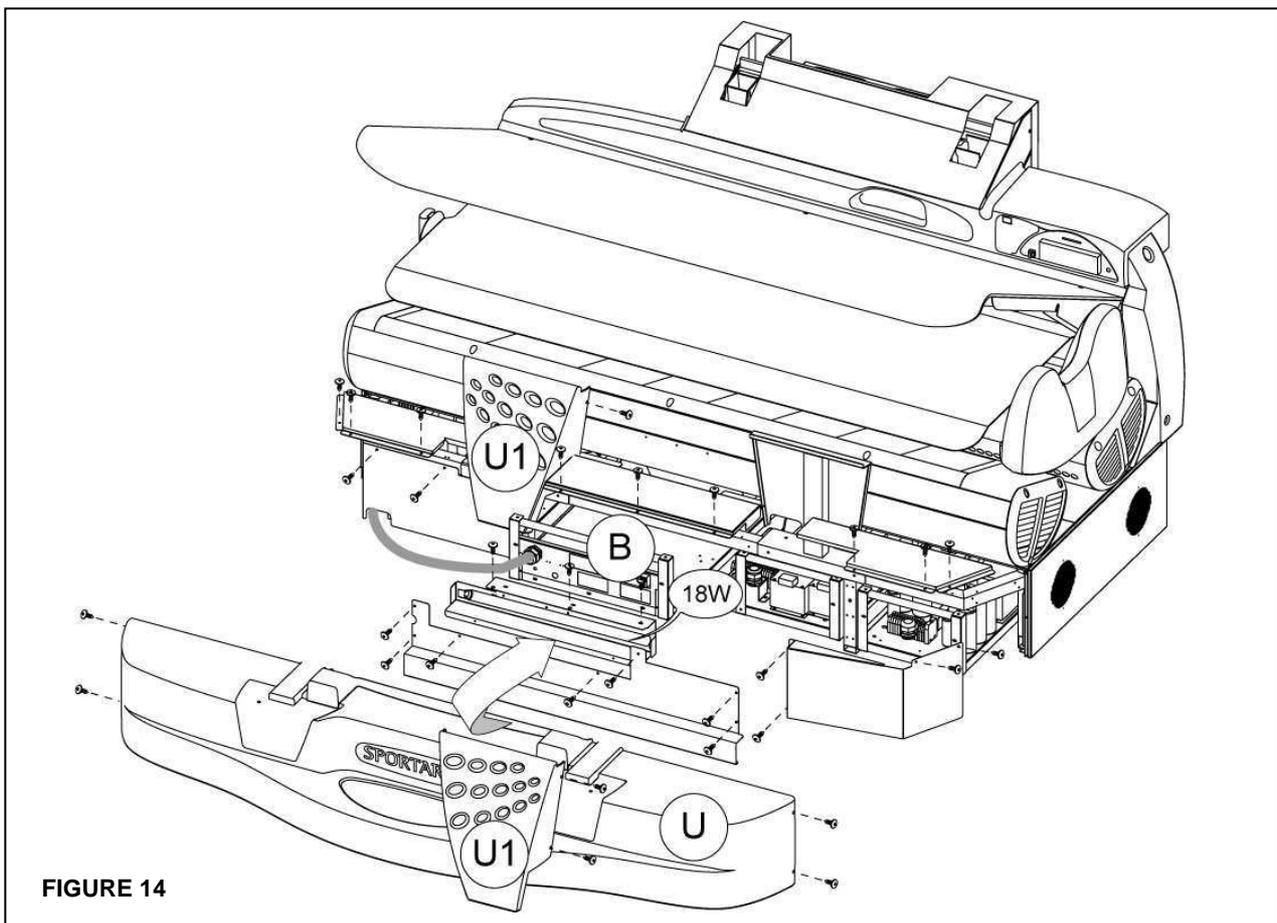
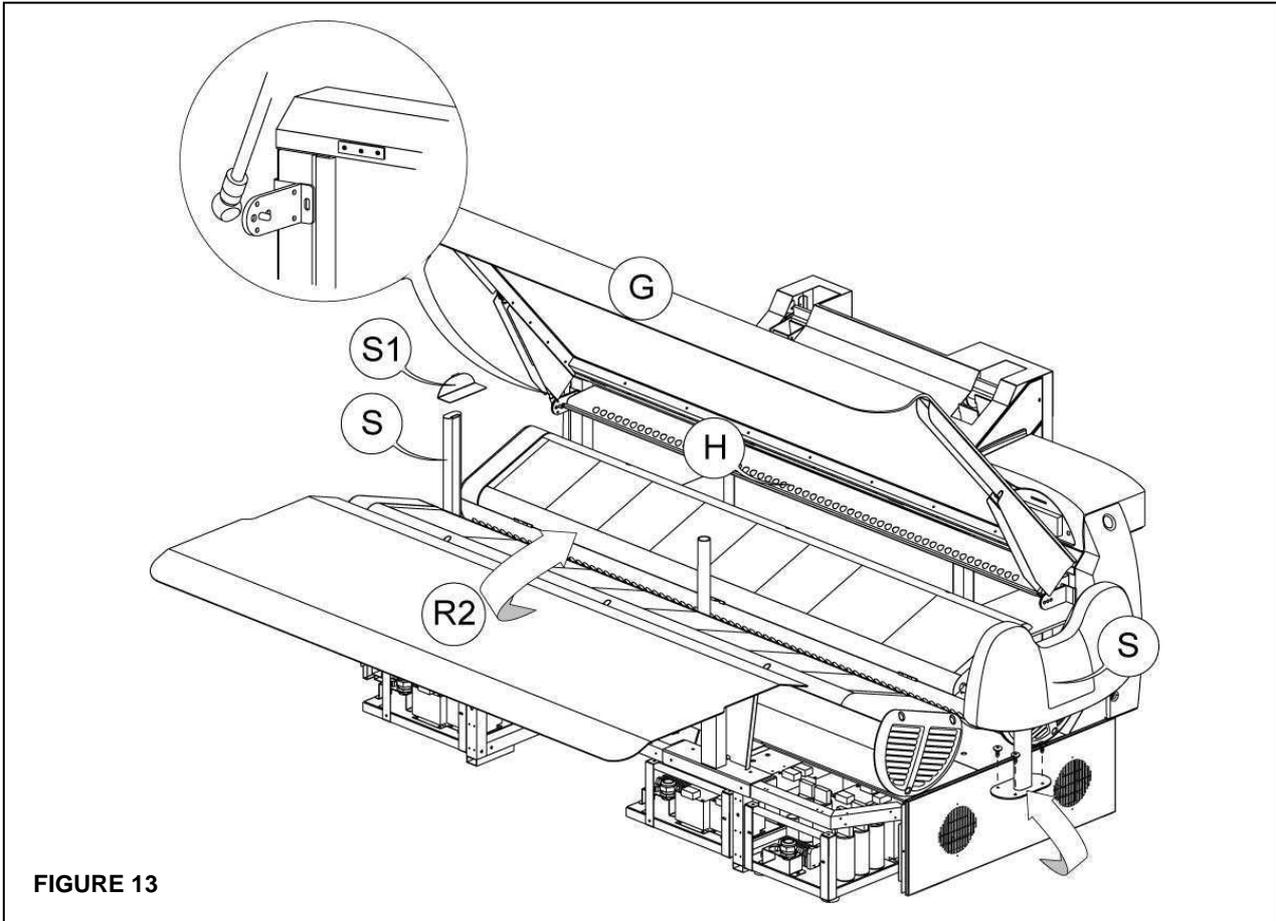


FIGURE 8







## AIR-CONDITIONING CONNECTION

The unit can be connected to an external air-conditioning system (separate system, not equipped with the unit or directly to the tanning centre air-conditioning system) to increase the user's comfort. The connection to the air-conditioning system permits to cool the surface of the acrylic that support the client during the session, increasing the comfort of the unit.

The unit can also function without the connection to an auxiliary air-conditioning system, but for a better comfort of the user, Sportarredo always suggests to connect the unit to an auxiliary cooling system.

The connection must be done as follows:

Use a flexible pipe diameter 254 cm, max. 2m long avoiding narrowing or a sharp turn.

Connect the pipe to the air socket placed on the cover of the cooling base fan behind the base of the unit (see figure \*).

Connect the other end of the pipe to the external air duct from the air-conditioning system (centralised or external air-conditioning system).

The air-conditioning system must be able to supply the following performance:

Air Output: min. 900-1000 m<sup>3</sup>/h

Cooling Power: 9.000-12.000 BTU

Air outlet temperature: at discretion of the user, however no higher than 25 °C

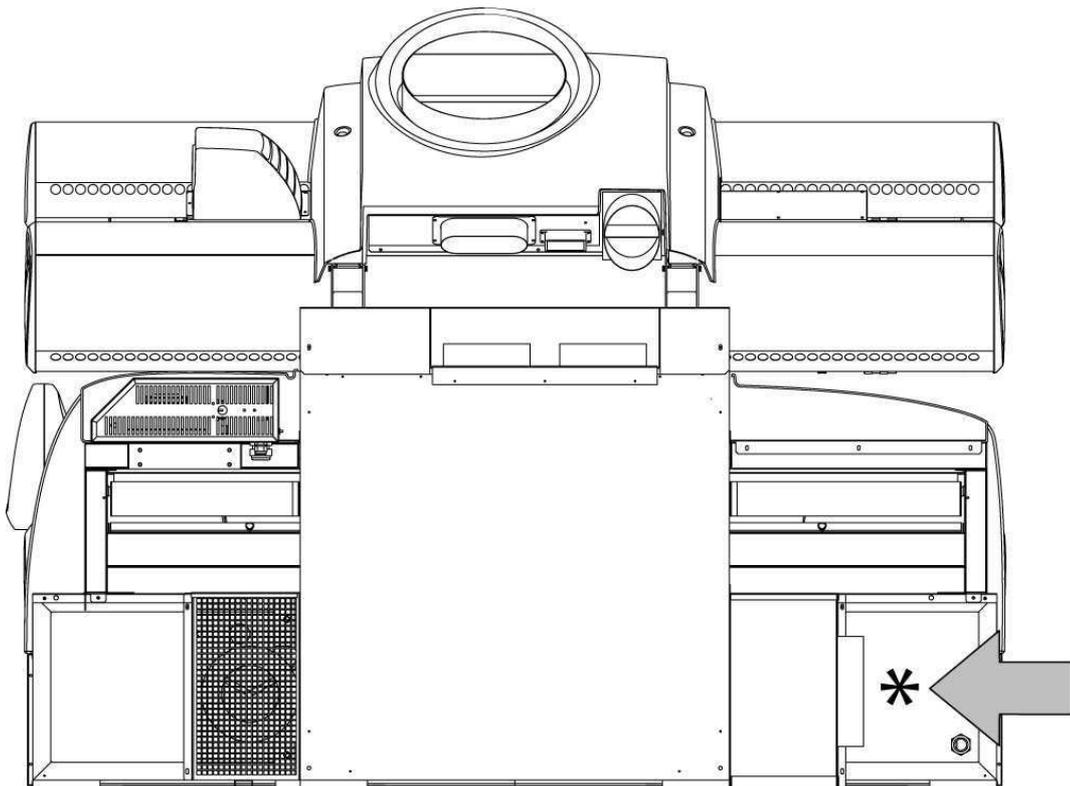


FIGURE 15

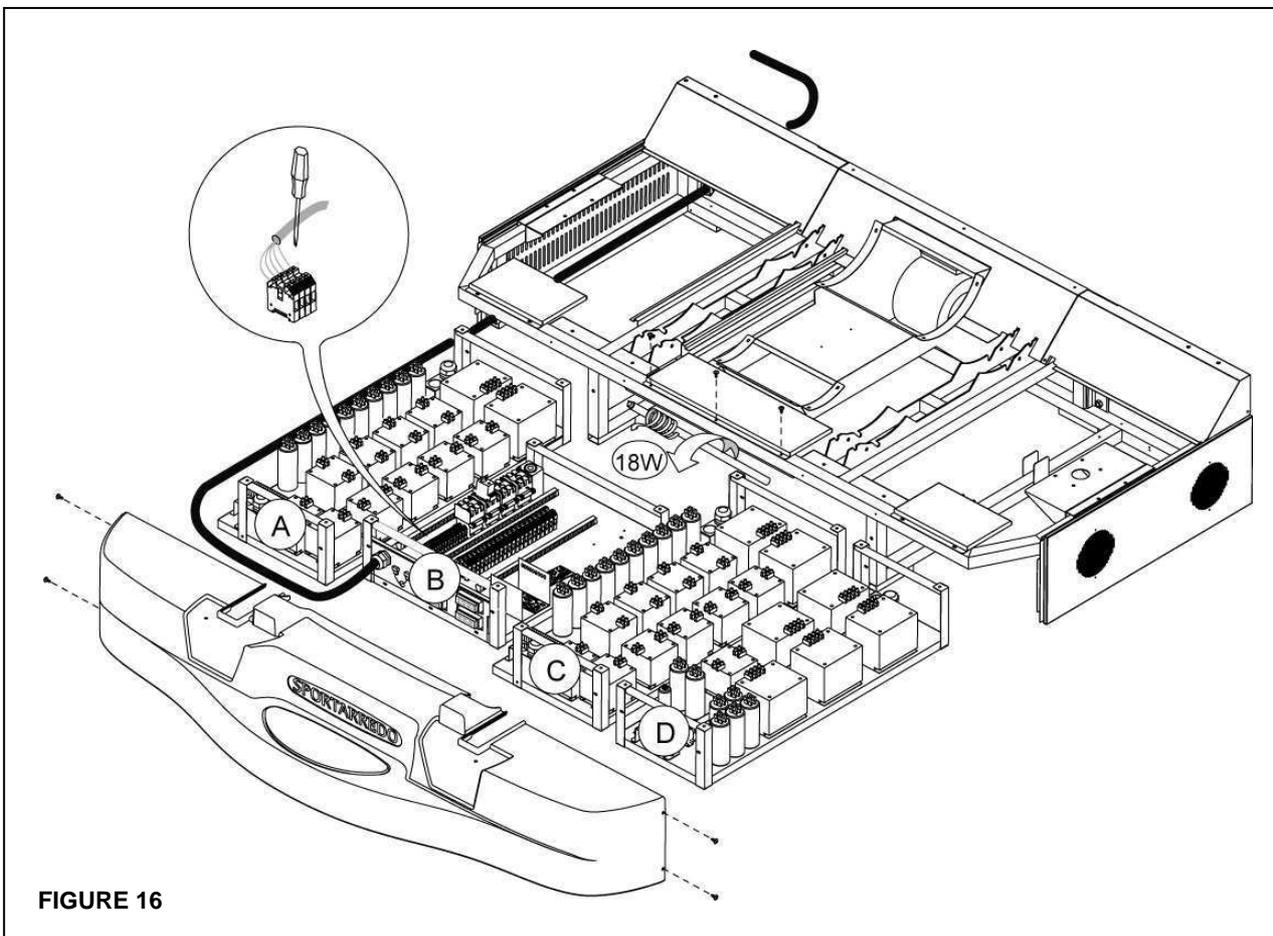
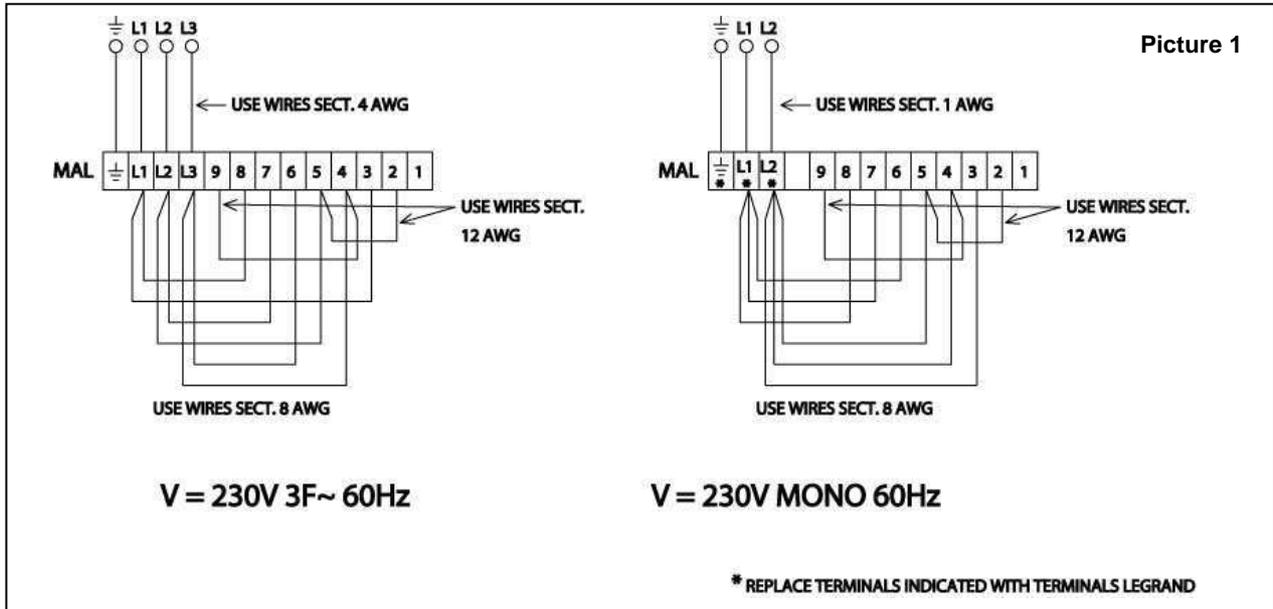
#### 4.4 VOLTAGE CHANGE

To enter the terminal board for power supply, placed inside the basement (control box **B**).

Before taking the control box **B** off, remove the bracket with the lamp 18w.

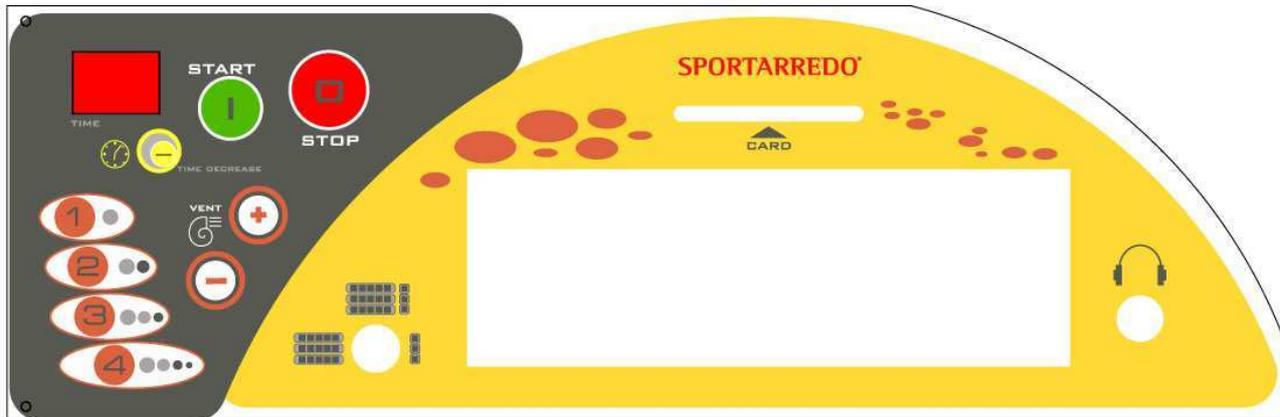
Make reference to Picture 1 and Figure 16.

**IMPORTANT !**  
**ALWAYS DISCONNECT THE MACHINE**  
**FROM THE POWER SUPPLY BY**  
**PRESSING THE SWITCH BREAKER**  
**BEFORE CARRYING OUT**  
**MAINTENANCE**



## 5 - USE

## 5.1 CONTROL BOARD



## START



Pushing this button you start the tanning treatment.



When the STOP button is pressed, the tanning lamps are switched off.

STOP

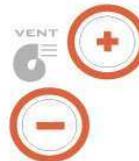


TIME DECREASE

The time button is used to decrease the duration of the treatment after the unit has been turned on.

At each pressure of the button there's a decrease of 1 minute.

May be used by authorised personnel only.



The buttons marked "+" or "-" may be used to increase or decrease the power of the fan.

2



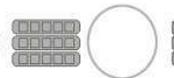
## SELECTOR

1 - Switches on the facial lamps.

2 - Switches on of all the lamps.

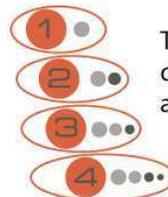
3 - Switches on of lamps, canopy and bed except the face.

3



1

Selection of the lamps must be made by the qualified personnel of the tanning centre and must be set before the session.



Through the buttons 1-2-3-4 the duration of the treatment is set out according to the customer skin type.

## IMPORTANT!

TRS/4 electronic board permits to use the remaining time of a session in case of temporary interruption of power, with the relative "reset" of the unit.

The remaining time will flash in the display: pushing the Start button you can use such time, while pushing the Stop button you set to zero such time and the unit is ready for a new session.

The machine is equipped with a radio/CD so that the client can listen to music during the tanning session.

## PL

This lamp lights when the appliance has been operated for 100 hours to indicate that routine maintenance must be performed.

## SL

This lamp lights when the appliance has been operated for 400 hours to indicate that it is necessary to call a qualified technician for special maintenance.

## 5.2 SAFETY OF THE PERSONS EXPOSED TO UV

**Don't use** the unit in case of filter damages and timer faults!

**ATTENTION!**  
**AN IMPROPER OR INCORRECT USE OF THE UNIT CAN CAUSE SERIOUS BODILY DAMAGES TO THE PERSON EXPOSED!**

From a careful analysis, as specified in **EN 60335-2-27**, the precautions that must be observed are listed below.

- 1) If the client is undergoing treatment using medication, such as antibiotics or anti-inflammatory pharmaceuticals, it is advisable to suspend tanning sessions. In any case, it is advisable to consult a doctor.
- 2) Before a tanning session, the skin should be clean and free of cosmetics or perfumes.
- 3) Be sure not to exceed the exposure times selected by the staff of the tanning centre.
- 4) Always use the special protective eyewear. The eyes must under no circumstances remain open during the tanning session.
- 5) After each tanning session, it is advisable to apply a moisturising cream.

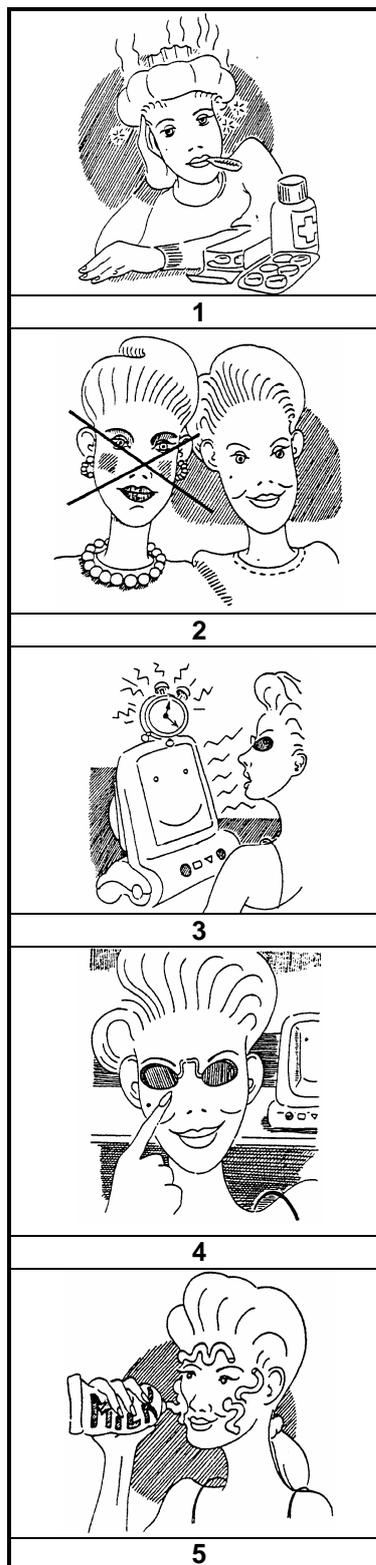
It's advisable to:

- Not exposure any part of the body more than one time per day.
- Not exposure to the unit and sun in the same day.
- Do not expose yourself to the appliance if you usually burn with normal sunlight or if you suffer from sun-rash.
- Do not make UV session in case of pregnancy. In any case please consult your own attending physician before making the session.
- Do not expose to UV immediately after depilation treatments.
- Do not expose children or adults that are prone to or are suffering (or have previously suffered) from skin neoplasia.
- Consult the physician if on the skin swellings, ulceration's or red spots appear.

### ATTENTION!

- **Ultraviolet radiation may cause injury to the eyes and skin, such as skin ageing and eventually skin cancer.**
- **Read instructions carefully.**
- **Wear the protective goggles provided.**
- **Certain medicines and cosmetics may increase sensitivity.**

A copy of the following warnings is supplied with the manuals and must be shown to the public close to the unit.



### 5.3 PROGRAMMING THE PRE-DEFINED SESSION TIMES

The electronic control of solarium permits to programme 4 pre-defined sessions time . Their programming should be carried out as follows:

Switch on the solarium and press the **Time decrease** key and then key **2** in sequence and keep them pressed for about four seconds until P4 is displayed.

With ventilation keys **+** or **-** choose the function to be modified or displayed.

Parameters	Display	Value
Session time in minutes for skin type 4	P4	1-40
Session time in seconds for skin type 4	S4	0-59
Session time in minutes for skin type 3	P3	1-P4
Session time in seconds for skin type 3	S3	0-59
Session time in minutes for skin type 2	P2	1-P3
Session time in seconds for skin type 2	S2	0-59
Session time in minutes for skin type 1	P1	1-P2
Session time in seconds for skin type 1	S1	0-59

#### **P4-SESSION TIME IN MINUTES FOR SKIN TYPE 4.**

IV (Mediterranean) .

The **start** key displays the data relating to the function to be modified or read.

The ventilation keys **+** or **-** modifies the value according to the table.

The **stop** key confirms the value and exits the function.

The next function, i.e. S4, is displayed.

#### **S4-SESSION TIME IN SECONDS FOR SKIN TYPE 4.**

IV (Mediterranean) .

The same procedure as per function P4 is repeated.

When exiting, P3 is displayed.

#### **P3- SESSION TIME IN MINUTES FOR SKIN TYPE 3.**

III (European dark skin).

The same procedure as per function P4 is repeated.

When exiting, S3 is displayed.

#### **S3- SESSION TIME IN SECONDS FOR SKIN TYPE 3.**

III (European dark skin).

The same procedure as per function P4 is repeated.

When exiting, P2 is displayed.

#### **P2- SESSION TIME IN MINUTES FOR SKIN TYPE 2.**

II (European fair skin).

The same procedure as per function P4 is repeated.

When exiting, S2 is displayed.

#### **S2- SESSION TIME IN SECONDS FOR SKIN TYPE 2.**

II (European fair skin).

The same procedure as per function P4 is repeated.

When exiting, P1 is displayed.

#### **P1- SESSION TIME IN MINUTES FOR SKIN TYPE 1. I**

(Celtic).

The same procedure as per function P4 is repeated.

When exiting, S1 is displayed.

#### **S1- SESSION TIME IN SECONDS FOR SKIN TYPE 1. I**

(Celtic).

The same procedure as per function P4 is repeated.

When exiting, rF is displayed.

**At this point, programming has been completed.**

**To return to normal operation, switch off and reset.**

The pre-defined session times by the manufacturer are consistent with those indicated on the recommended exposure programs.

At each pressure of the “time decrease” button, the initial session time will be decreased of 1 minute; pushing again you can obtained in a decreasing way all the session times scheduled by the exposure programs.

## 6 - ORDINARY MAINTENANCE MADE BY THE CUSTOMER

### 6.1 ORDINARY MAINTENANCE

**IMPORTANT !**  
ALWAYS DISCONNECT THE MACHINE FROM THE POWER SUPPLY BY PRESSING THE BREAKER SWITCH BEFORE CARRYING OUT MAINTENANCE

**IMPORTANT!**  
USE ONLY THE DISINFECTANT CLEANSING THE TRANSPARENT AND BLUE COBALT FILTERS  
N.B. DO NOT USE ALCOHOL OR ALCOHOL-BASED PRODUCTS FOR CLEANING

#### REMOVING AND CLEANING THE TRANSPARENT AND BLUE COBALT FILTERS

To make the cleaning of the filters it's necessary to make as follows on page 24 and figure 18-19.

#### CHECK OF THE BLUE COBALT FILTER

To prevent the exposition to bad rays it's important to check the good conditions of the blue cobalt filters and the fixing condition to the metallic frame. If breaks or cracks are present do not use the equipment and call for a skilled technician maintenance.

#### CLEANING THE TRANSPARENT AND BLUE COBALT FILTERS

Clean the filters internally and externally using a 50% solution of water and denatured alcohol.

#### WARNING!

When you open/rise the columns in order to clean them or for ordinary maintenance, a security device automatically switches off the unit. The feeding switches on again when the columns are closed.

**IMPORTANT!**  
USE ONLY THE DISINFECTANT CLEANSING MULTYSAN TO CLEAN THE ACRYLICS

ANY TAMPERING WITH THE APPLIANCE OR THE USE OF NON-ORIGINAL MATERIAL OR PARTS MAY LEAD TO INJURY. IN SUCH CASES, THE MANUFACTURER DECLINES ALL CIVIL AND PENAL LIABILITY, AND THE WARRANTY SHALL AUTOMATICALLY BE CONSIDERED NULL AND VOID.

#### FILTERS USED IN THIS APPLIANCE:

Cobalt filter 230x75mm  
Superlux filter TR-T 260x300mm  
Superlux filter TR-T 260x210mm

#### REFLECTORS USED IN THIS APPLIANCE:

MX630 - MX1530

#### PL PILOT LAMP FOR ROUTINE MAINTENANCE

This lamp lights when the appliance has been operated for 100 hours this means that routine maintenance, consisting of cleaning of internal and external filters of the appliance, should be carried out.

The luminous signal is turned off by the following procedure:

- press key **Time decrease** and **1** at the same time, until the pilot lamp **PL** appears;
- press key **Start** (the point disappears);
- press again key **Start** (PL flashing);

Now the resetting procedure begins and is shown by the fast flashing of the pilot lamp.

When the flashing stops, **PL** appears again;

- to return the machine to normal operational status, turn the electrical power off and then back on.

The resetting procedure is finished.

This procedure should be carried out with the appliance in pause mode.

SECURITY DEVICES OF COLUMNS

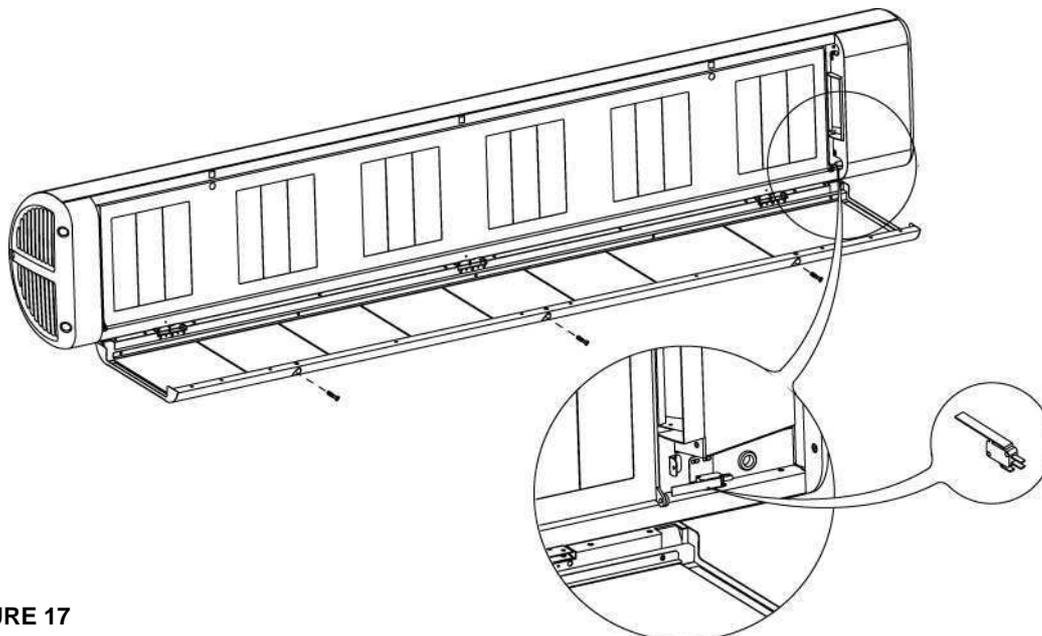


FIGURE 17

CLEANING THE CANOPY FILTERS

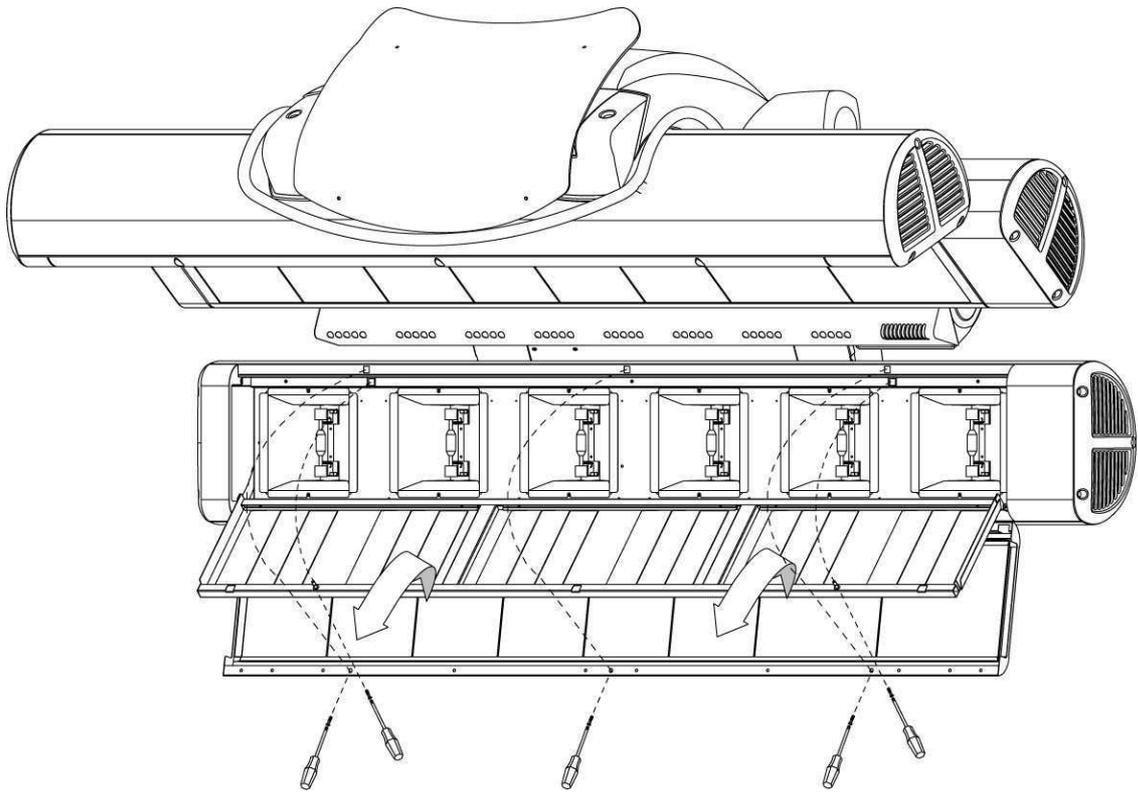


FIGURE 18

CLEANING THE BASE FILTERS AND ACRYLICS

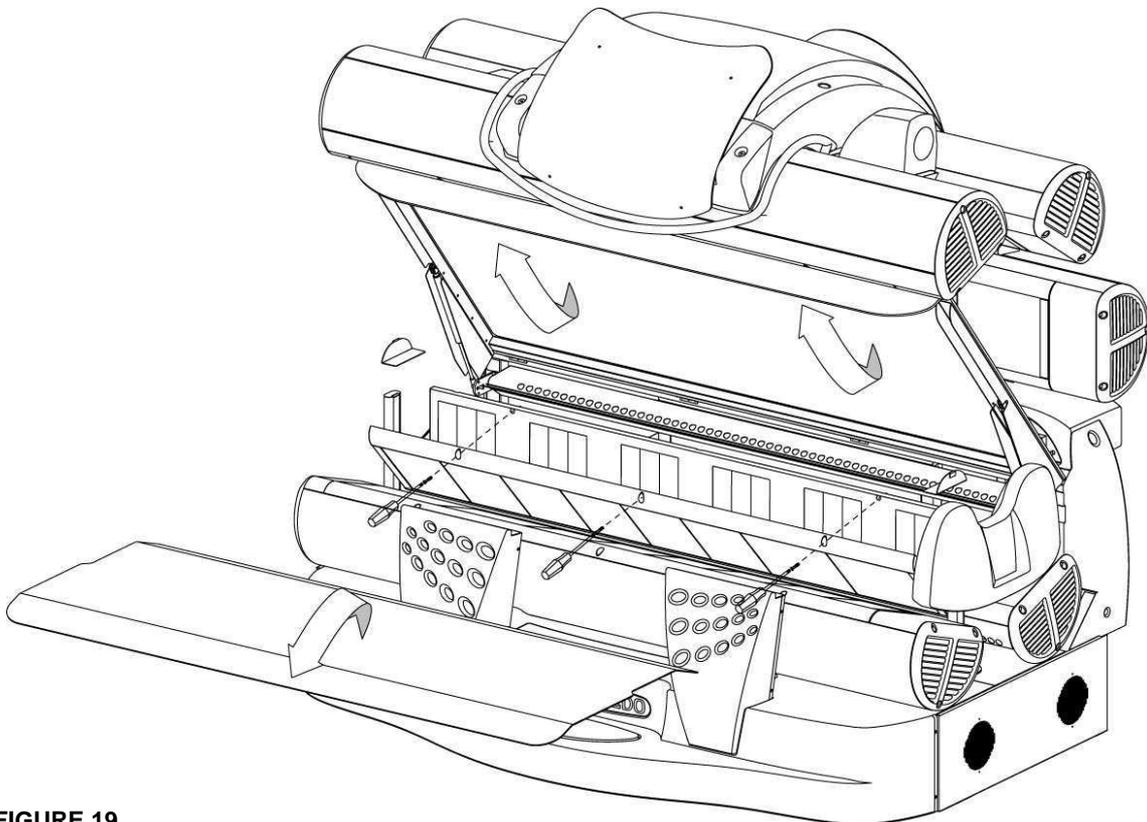


FIGURE 19

## 7 - EXTRAORDINARY MAINTENANCE MADE BY A SKILLED TECHNICIAN

### 7.1 EXTRAORDINARY MAINTENANCE

#### **SL** PILOT LAMP FOR SPECIAL MAINTENANCE

This lamp lights when the appliance has been operated for 400 hours this means that the following extraordinary maintenance operations should be carried out:

- cleaning of internal and external filters.
- replacement of the lamps.
- Check that the timer system is working correctly.
- Check that the SAFETY AND ACCIDENT PREVENTION instructions are legible and in satisfactory condition.
- Every 800 working hours replace the reflectors, the UV filters, the igniters for the high-pressure lamps. Clean the fans and the inside of the machine.
- Every 1200 working hours replace the acrylics.

The luminous signal is turned off by following the procedure below:

- press key **Time decrease** and **1** at the same time, until the pilot lamp **PL** appears;
- press key **+** appears **SL** ;
- press key **Start** (the point disappears);
- press again key **Start** (SL flashing);

Now the resetting procedure begins and is shown by the fast flashing of the pilot lamp.

When the flashing stops, **SL** appears again;

- to return the machine to normal operational status, turn the electrical power off and then back on. The resetting procedure is finished.

This procedure should be carried out with the appliance in pause mode.

### 7.2 PERIODIC CONTROL PROCEDURES

**Electrical checks.** Check that the electrical safety devices, and the acoustic/illuminated signal devices and alarms are undamaged and that they function correctly. Check that the equipment and devices in the electrical control box are in satisfactory condition.

**These checks must be performed by qualified personnel**

**IMPORTANT !  
ALWAYS DISCONNECT THE MACHINE  
FROM THE POWER SUPPLY BY  
PRESSING THE BREAKER BEFORE  
CARRYING OUT MAINTENANCE**

**IMPORTANT!  
USE ONLY THE DISINFECTANT CLEANSING THE  
TRANSPARENT AND BLUE COBALT FILTERS  
N.B. DO NOT USE ALCOHOL OR ALCOHOL-BASED  
PRODUCTS FOR CLEANING**

#### **CHECK OF THE BLUE COBALT FILTER**

To prevent the exposition to bad rays it's important to check the good conditions of the blue cobalt filters and the fixing condition to the metallic frame. If breaks or cracks are present do not use the equipment and call for a skilled technician maintenance.

#### **CLEANING THE BLUE COBALT FILTERS**

Clean the filters internally and externally using a 50% solution of water and denatured alcohol.

**IMPORTANT!  
USE ONLY THE DISINFECTANT CLEANSING  
MULTYSAN TO CLEAN THE ACRYLICS**

**ANY TAMPERING WITH THE APPLIANCE OR  
THE USE OF NON-ORIGINAL MATERIAL OR  
PARTS MAY LEAD TO INJURY. IN SUCH  
CASES, THE MANUFACTURER DECLINES ALL  
CIVIL AND PENAL LIABILITY, AND THE  
WARRANTY SHALL AUTOMATICALLY BE  
CONSIDERED NULL AND VOID.**

## INSTRUCTIONS FOR THERMIC PROTECTION REFITTING

The unit is fitted with a protection from the heat that acts when the security temperature exceeds.  
In case of over-heating the protection acts switching off the unit.

Each of 5 columns is equipped with a thermic switch, placed in the first reflector from the head side.

The **PROTECTION IS SELF-RESTORING** that is to say it re-starts automatically when the temperature decreases to a normal value (10/15 minutes depending on the use conditions). After which the unit is ready to start again.

The electronic board SCT/1, situated in the control box **B** on the base, controls thermics.

Each red led matches the number of the column, where the thermic works:

Led 1 on = thermic functioning on column no. 1

Led 2 on = thermic functioning on column no. 2

Led 3 on = thermic functioning on column no. 3

Led 4 on = thermic functioning on column no. 4

Led 5 on = thermic functioning on column no. 5

For switching off leds press the Reset button as shown on the photo.

If the reset button is not kept pressed the equipment will nevertheless start again, but in its memory led will remain switched on.

**WARNING!** In case of stand-by if any connector is disconnected on the SCT/1 led switches on in the column.

## WARNING!

Should the thermal protection come into operation, this means that the equipment is functioning incorrectly. Make sure that the air extraction ducts are free or are not insufficiently. Inform the specialised technician of the problem.

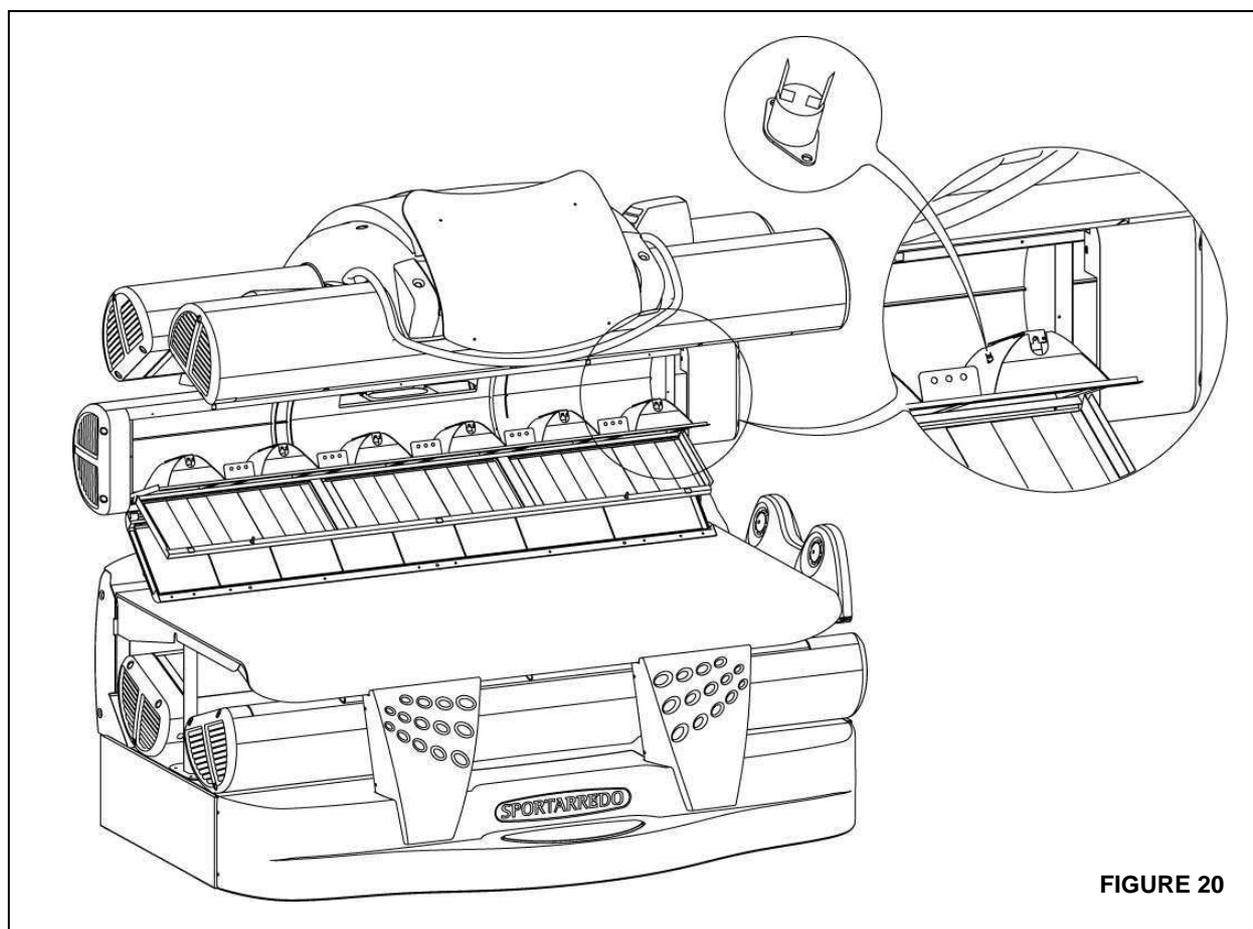
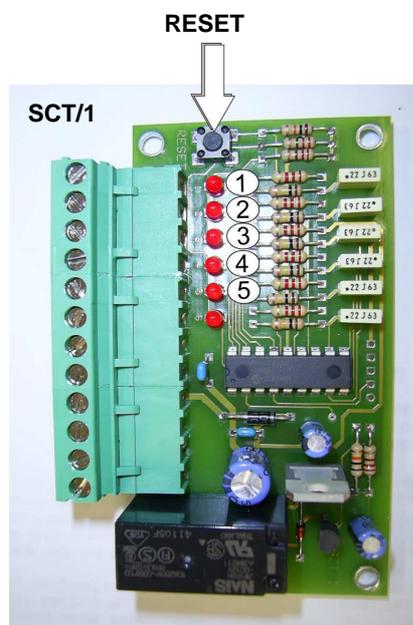


FIGURE 20

REMOTE CONTROLS

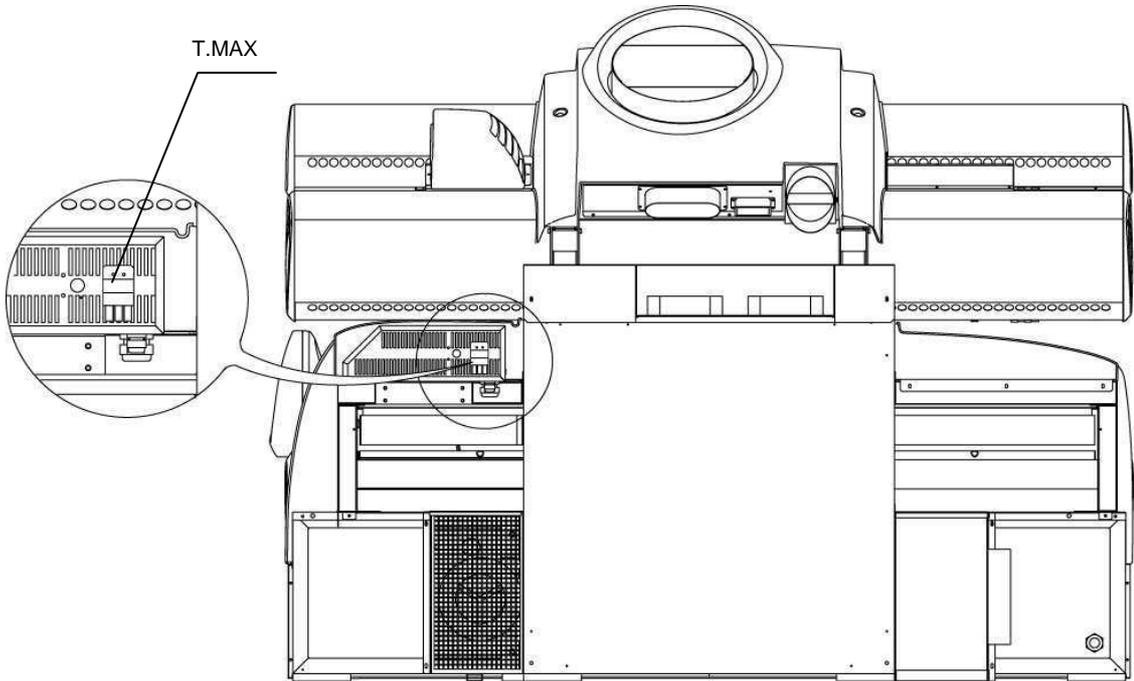


FIGURE 21

REPLACING ACRYLICS

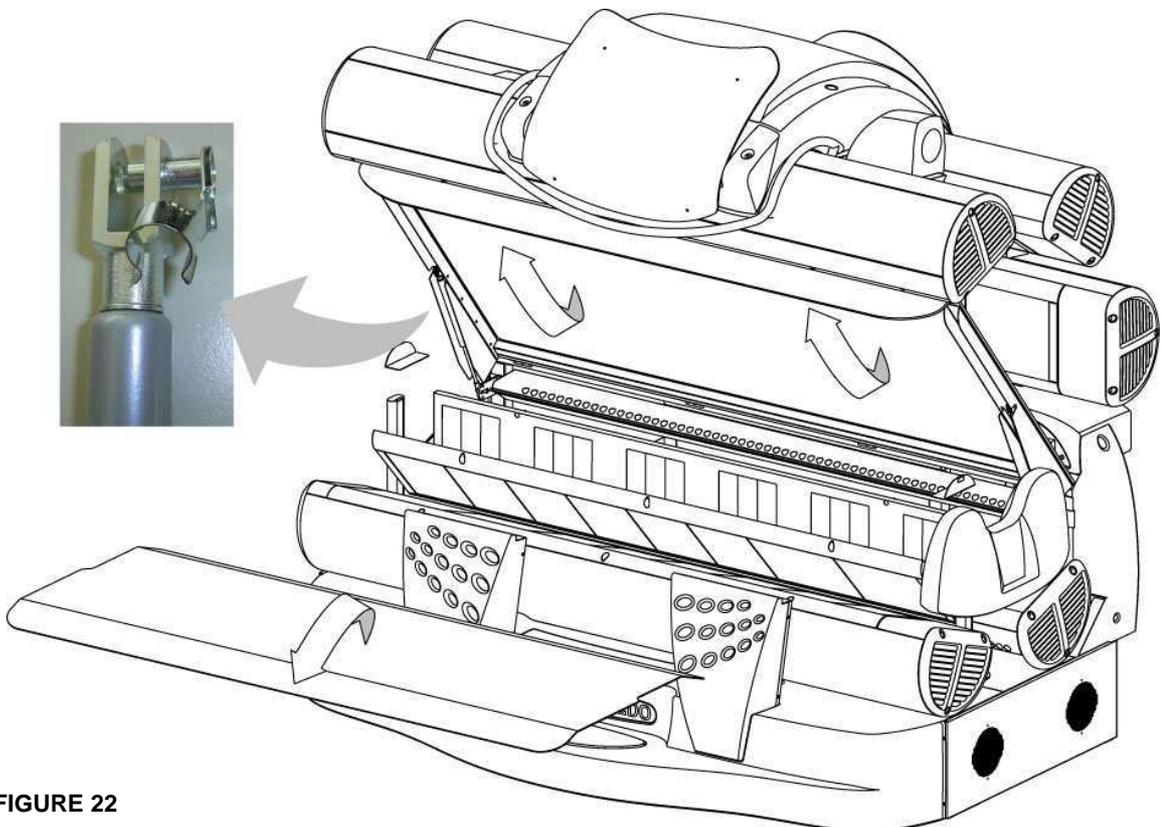


FIGURE 22

REPLACING THE HOT AIR EXHAUST FAN

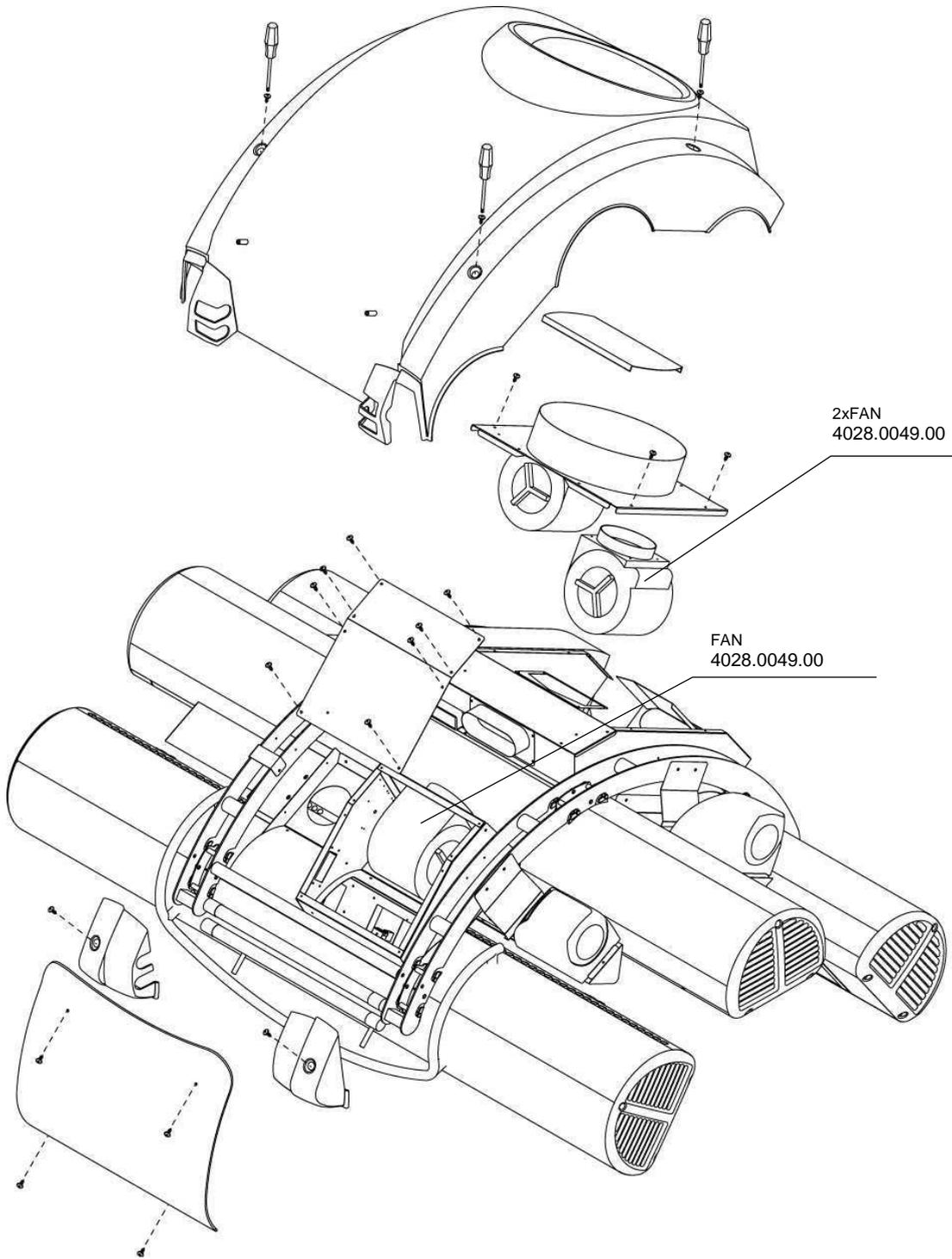


FIGURE 23

## REPLACING THE CANOPY LAMPS FILTERS AND REFLECTORS

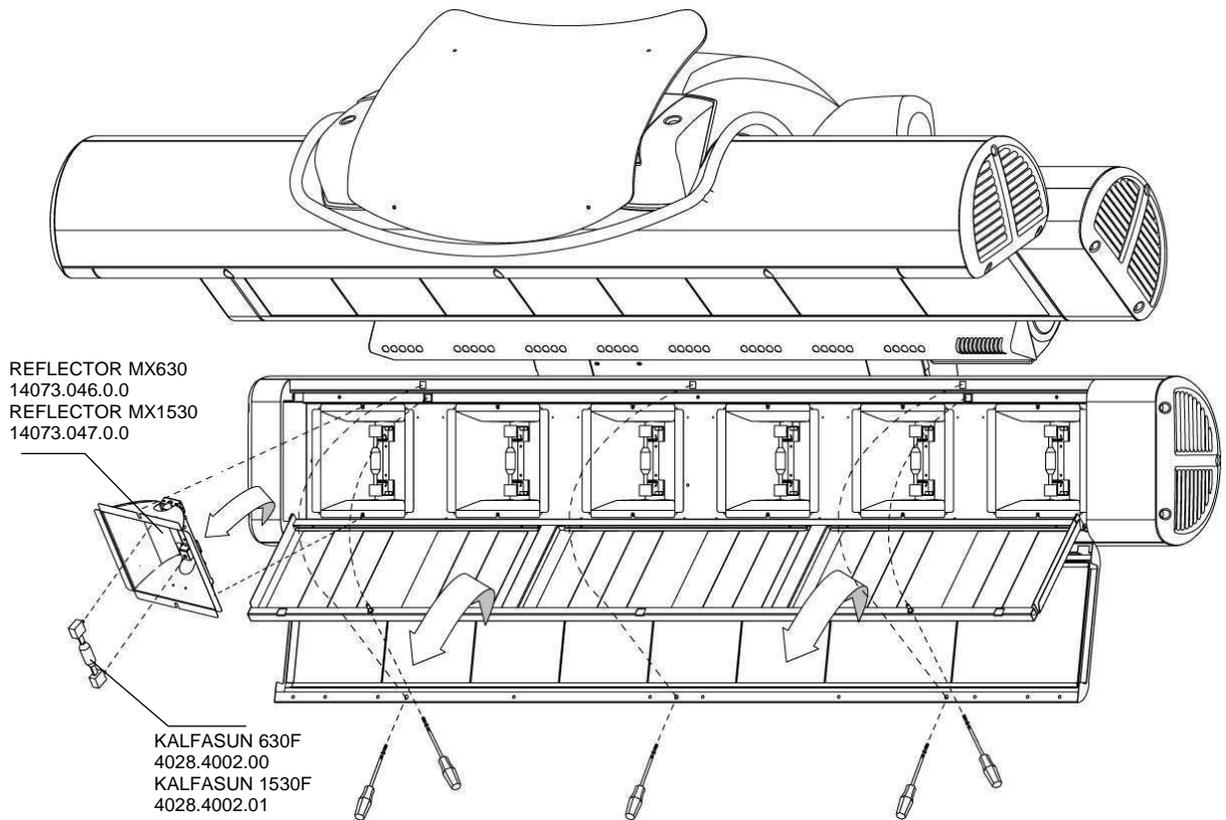


FIGURE 24

## REPLACING THE BASE LAMPS FILTERS AND REFLECTORS

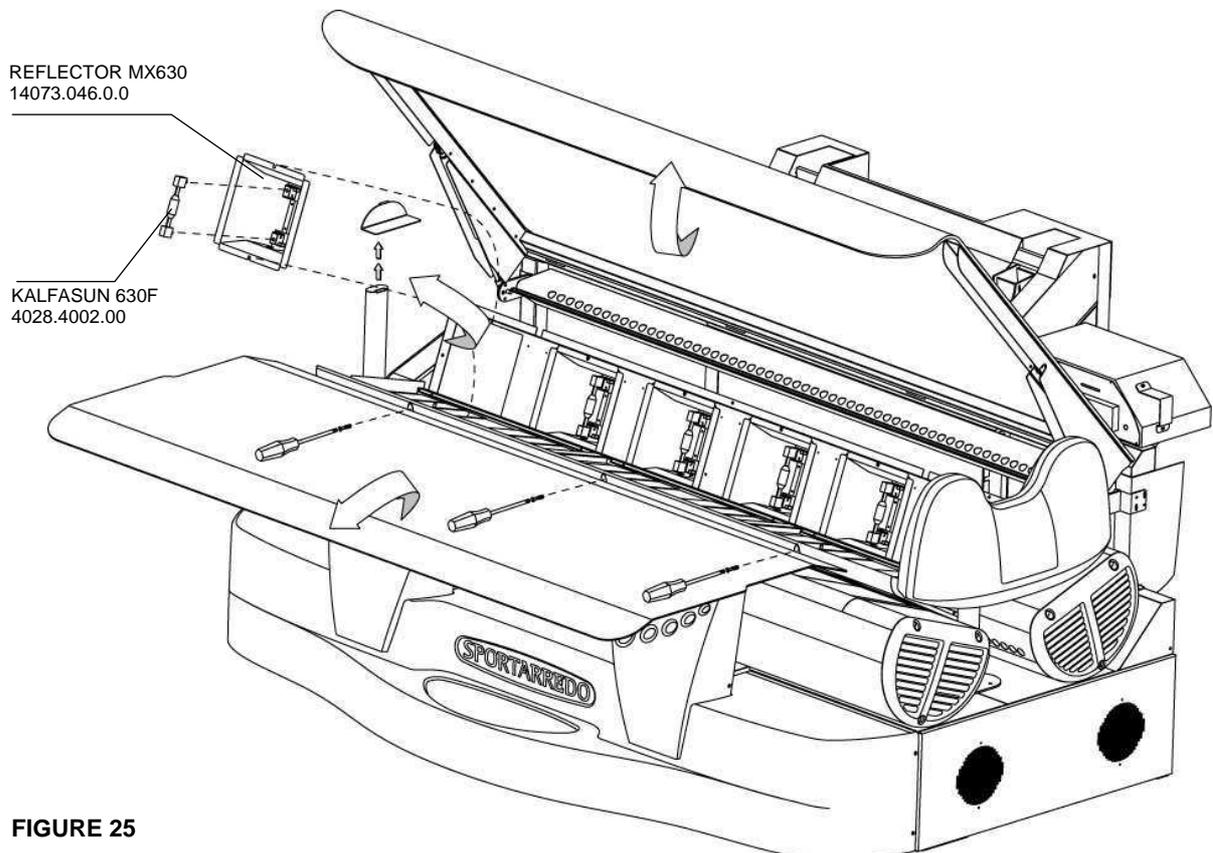


FIGURE 25

## 8 - CONTROL BOARD PROGRAMMING

## 8.1 PROGRAMMING

Functions (firmware 1.3)	Display	Value	Standard
Session time in minutes for skin type 4	P4	1-40	*
Session time in seconds for skin type 4	S4	0-59	*
Session time in minutes for skin type 3	P3	1-P4	*
Session time in seconds for skin type 3	S3	0-59	*
Session time in minutes for skin type 2	P2	1-P3	*
Session time in seconds for skin type 2	S2	0-59	*
Session time in minutes for skin type 1	P1	1-P2	*
Session time in seconds for skin type 1	S1	0-59	*
Lamp cooling minutes	rF	3-8	*
Value of body ventilation at session start	bl	0-8	6
Value of body ventilation during cooling stage	bF	0-8	*
Minimum body ventilation	bd	0-8	0
Maximum body ventilation	bu	0-8	8
Type of body cooling ventilation: 0=fan 1=turbo	bt	0-1	0
Minutes for first coin	Pb	1-3	3
Time in seconds for first coin	Sb	0-59	0
Minutes for subsequent coin or accumulation of coins	Pu	1-3	3
Seconds for subsequent coin or accumulation of coins	Su	0-59	0
How to use	Ac	On-OFF	OF
Minutes for start delay and accumulation of coin	rS	0-99	0
Start key on keypad.	tS	On-OFF	On
Delay stop on keypad	SS	On-OFF	Of
Function face/body selector	St	On-OFF	Of
Priority external start	SE	On-OFF	On
External start function	CS	On-OFF	Of
Relay control on CBR/4	Cb	0-3	0
Delay CBR/4 relay disactivation when start button is loosed	Ct	mSx10	10
** Buzzer enable	b	On-OFF	On
** Mid session buzzer enable	b2	On-OFF	On
Session time display	uS	On-OFF	On
Ascending or descending session time display	AS	On-OFF	OF
Operating mode predefined	tF	0-6	0
Residual time to black-out	tr	On-OFF	On
1 <sup>st</sup> Vocal message	n1	On-OFF	On
2 <sup>nd</sup> Vocal message	n2	On-OFF	On
3 <sup>rd</sup> Vocal message	n3	On-OFF	On
4 <sup>th</sup> Vocal message	n4	On-OFF	OF
Choice language of the messages	Li	1-6	1

\* Value depends on the solarium.

\*\*Only for MPT/4 control board

To modify or read the basic parameters of the MPT/4 or TRS/4 card, programming should be carried out as follows:

Switch on the solarium and press the **Time** key and then key **2** in sequence and keep them pressed for about four seconds until P4 is displayed.

With ventilation keys **+** or **-** choose the function to be modified or displayed.

**P4-SESSION TIME IN MINUTES FOR SKIN TYPE 4.**

IV (Mediterranean) .

The **start** key displays the data relating to the function to be modified or read.

The ventilation keys **+** or **-** modifies the value (or logic status) according to the table.

The **stop** key confirms the value and exits the function.

The next function, i.e. S4, is displayed.

**S4-SESSION TIME IN SECONDS FOR SKIN TYPE 4.**

IV (Mediterranean) .

The same procedure as per function P4 is repeated.

When exiting, P3 is displayed.

**P3- SESSION TIME IN MINUTES FOR SKIN TYPE 3.**

III (European dark skin).

The same procedure as per function P4 is repeated.

When exiting, S3 is displayed.

**S3- SESSION TIME IN SECONDS FOR SKIN TYPE 3.**

III (European dark skin).

The same procedure as per function P4 is repeated.

When exiting, P2 is displayed.

**P2- SESSION TIME IN MINUTES FOR SKIN TYPE 2.**

II (European fair skin).

The same procedure as per function P4 is repeated.

When exiting, S2 is displayed.

**S2- SESSION TIME IN SECONDS FOR SKIN TYPE 2.**

II (European fair skin).

The same procedure as per function P4 is repeated.

When exiting, P1 is displayed.

**P1- SESSION TIME IN MINUTES FOR SKIN TYPE 1. I**

(Celtic).

The same procedure as per function P4 is repeated.

When exiting, S1 is displayed.

**S1- SESSION TIME IN SECONDS FOR SKIN TYPE 1. I**

(Celtic).

The same procedure as per function P4 is repeated.

When exiting, rF is displayed.

**rF-LAMP COOLING MINUTES.**

When rF is displayed, the same procedure as per function P4 is repeated.

When exiting, bl is displayed.

**bl-VALUE OF BODY VENTILATION AT SESSION START.**

When bl is displayed, the same procedure as per function P4 is repeated.

When exiting, bF is displayed.

**bF- VALUE OF BODY VENTILATION DURING COOLING STAGE.**

When bF is displayed, the same procedure as per function P4 is repeated.

When exiting, bd is displayed.

**bd-MINIMUM BODY VENTILATION.**

When bd is displayed, the same procedure as per function P4 is repeated.

When exiting, bu is displayed.

**bu-MAXIMUM BODY VENTILATION.**

When bu is displayed, the same procedure as per function P4 is repeated.

When exiting, bt is displayed.

**bt-TYPE OF BODY COOLING VENTILATION.**

Enter function bt by pressing the start key. The display shows 0 (fan) or 1 (turbo). Change to 0 or 1, depending on the body cooling fan that is installed in the solarium, by following the same procedure as per function P4.

When exiting, Pb is displayed.

**Pb-MINUTES FOR FIRST COIN.**

When Pb is displayed, the minutes for start of session with coin can be modified by following the same procedure as per function P4.

When exiting, Sb is displayed.

**Sb-TIME IN SECONDS FOR FIRST COIN.**

When Sb is displayed, the seconds for start of session with coin can be modified by following the same procedure as per function P4.

When exiting, Pu is displayed.

**Pu-MINUTES FOR SUBSEQUENT COIN OR ACCUMULATION OF COINS.**

When Pu is displayed, the minutes for start of session with subsequent coins or accumulation of coins can be modified by following the same procedure as per function P4.

When exiting, Su is displayed.

**Su-SECONDS FOR SUBSEQUENT COIN OR ACCUMULATION OF COINS.**

When Su is displayed, the seconds for start of session with subsequent coins or accumulation of coins can be modified by following the same procedure as per function P4.

When exiting, Ac is displayed.

**Ac-COIN ACCUMULATION FUNCTION.**

When Ac is displayed, accumulation of coins is enabled (On) or disabled (OF) by following the same procedure as per function P4.

This function is operative if rS is other than 0.

When exiting, rS is displayed.

**rS- MINUTES FOR START DELAY AND ACCUMULATION OF COIN.**

When rS is displayed, the session start time delay can be modified by following the same procedure as per function P4.

If, for example, the value of this function is 2, the solarium starts after 2 minutes from pressing the start key. If the start key is pressed again, the solarium starts immediately.

If, however, the value is set to 99, the solarium remains in stand-by.

When exiting, tS is displayed.

**tS**- START KEY ON KEYPAD.

When tS is displayed, the start key on the keypad can be enabled (On) or disabled (OF) by following the same procedure as per function P4.

When exiting, SS is displayed.

**SS** - DELAY STOP ON KEYPAD

When SS is displayed, the stop key on the keypad can be delayed for 3 seconds (On) or normally operated (OF) by following the same procedure as per function P4.

When exiting, St is displayed.

**St** - FUNCTION FACE/BODY SELECTOR

When St is displayed, the face/body selector on the keypad can be disabled before Start (OF) or enabled during the session (On) by following the same procedure as per function P4.

When exiting, SE is displayed.

**SE**- PRIORITY EXTERNAL START.

When SE is displayed, the priority external start on the keypad can be enabled (On) or disabled (OF) by following the same procedure as per function P4.

When exiting, CS is displayed.

**CS** - EXTERNAL START FUNCTION

When CS is displayed, the external button to the Start can be disabled through a bridge (OF) or enabled without a bridge (On) by following the same procedure as per function P4.

When exiting, Cb is displayed.

**Cb**- RELAY CONTROL ON CBR/4.

Enter function Cb by pressing the start key. With ventilation keys + or - choose the function to be modified or displayed:

00 - CBR/4 relay disabled.

01 - The relay the contacts RUNN (7-8) on the CBR/4 board when the unit makes the session.

02 - The relay closes the contacts RUNN (7-8) on the CBR/4 board when the unit makes the session and final ventilation.

03 - The relay closes the contacts RUNN (7-8) on the CBR/4 board when the key start is pushing.

When exiting, Ct is displayed.

**Ct**-DELAY CBR/4 RELAY DISACTIVATION WHEN START BUTTON IS LOOSED

When Ct is displayed, the function to modify the delay (on milliseconds) of the relay CBR/4 disable activation can be obtained when the START button is loosed only with Cb at point 03 and with the same procedure as per function P4.

When exiting, b is displayed.

**b**- BUZZER ENABLE.

When b is displayed, the card loud speaker can be enabled (On) or disabled (OF) by following the same procedure as per function P4.

When exiting, b2 is displayed.

**b2**- MID SESSION BUZZER ENABLE.

When b2 is displayed, the card loud speaker is enabled (On) or disabled (OF) half-way through the session by following the same procedure as per function P4.

When exiting, uS is displayed.

**uS**-SESSION TIME DISPLAY.

When uS is displayed, the solarium session time can be enabled (On) or disabled (OF) by following the same procedure as per function P4.

When exiting, AS is displayed.

**AS**-ASCENDING OR DESCENDING SESSION TIME DISPLAY.

When AS is displayed, the time in ascending (On) or descending (OF) mode can be visualised by following the same procedure as per function P4.

When exiting, tF is displayed.

**tF** - OPERATING MODE PREDEFINED

Enter function tF by pressing the start key. With ventilation keys + or - choose the function to be modified or displayed:

00 - Operating mode standard or default.

01 - Operating mode with CARD without the choice of skin type and price for session.

02 - Operating mode with CARD and price for time to definition.

03 - Operating mode with CARD with the choice of skin type and price for session.

04 - Operating mode with external timer.

05 - Operating mode with computer (external control).

06 - Operating mode with CARD with the time price (dynamic charge).

When exiting, tr is displayed.

**tr** - RESIDUAL TIME TO BLACK-OUT

When tr is displayed, the function to memorize (On) or enable (OF) the residual time is on if a black-out occurs during the session with the same procedure as per function P4.

When exiting, n1 is displayed.

**n1**-FIRST VOCAL MESSAGE.

When n1 is displayed, the vocal message can be enabled (On) or disabled (OF) by following the same procedure as per function P4.

When exiting, n2 is displayed.

**n2**-SECOND VOCAL MESSAGE.

When n2 is displayed, the vocal message can be enabled (On) or disabled (OF) by following the same procedure as per function P4.

When exiting, n3 is displayed.

**n3**-THIRD VOCAL MESSAGE.

When n3 is displayed, the vocal message can be enabled (On) or disabled (OF) by following the same procedure as per function P4.

When exiting, n4 is displayed.

**n4**-FOURTH VOCAL MESSAGE.

When n4 is displayed, the vocal message can be enabled (On) or disabled (OF) by following the same procedure as per function P4.

When exiting, Li is displayed.

**Li-CHOICE LANGUAGE OF THE MESSAGES.**

When Li is displayed, choose one of the 6 languages by following the same procedure as per function P4.

01=Italiano  
02=English  
03=Español  
04=Greek  
05-06=free

When exiting, P4 is displayed.

**At this point, programming has been completed.  
To return to normal operation, switch off and reset.**

Maintenance functions	Display
To zero for filter cleaning	PL.
To zero for bulb replacement	SL.
Display of number of sessions	nS.
Display of lamp operating hours	oL.
Display of filter operating hours	oF.
Display of total solarium operating hours	oS.
Display of firmware card date	dC.

To modify or read the maintenance functions of the TRS/4 or TRS/4 card, programming should be carried out as follows:

Switch on the solarium and press the **Time decrease** key and then key **1** in sequence and keep them pressed for about four seconds until PL is displayed.

With ventilation keys **+** or **-** choose the function to be modified or displayed.

**PL- TO ZERO FOR FILTER CLEANING**

When PL. is displayed, press start to enter the function. PL without the point is displayed. Press the start key again and the display flashes for a few seconds.

At this point the hours are zeroed and the associated lamp switches off.

Press the stop key to confirm the data. By pressing ventilation key **+** the following SL function is displayed

**SL- TO ZERO FOR BULB REPLACEMENT**

When SL. is displayed, press start to enter the function. SL without the point is displayed. Press the start key again and the display flashes for a few seconds.

At this point the hours are zeroed and the associated lamp switches off.

Press the stop key to confirm the data. By pressing ventilation key **+** the following nS function is displayed

**nS- DISPLAY OF NUMBER OF SESSIONS.**

When nS is displayed, press start to enter the function. The format of the data displayed is as follows:

**position ". " number**

**position:** indicates the value of the figure. E.g.: 1 for units, 2 for tens, 3 for hundreds ...and so on.

**number:** indicates the value of the figure relating to the position.

E.g.: the card has carried out 008594 sessions.

When pressing the start key, the display shows	1.4
When pressing the start key again	2.9
When pressing the start key again	3.5
When pressing the start key again	4.8

Therefore, the figure is 8594

If the start key is pressed again, the display again shows the data indicated in position 1.

Note: even if the card memorises a maximum of 6 figures, the zeros on the left-hand side are not displayed.

Press the stop key to exit the function and oL is displayed.

**oL- DISPLAY OF LAMP OPERATING HOURS.**

When oL is displayed, press start to enter the function. The number of lamp operating hours is displayed. To read the number, repeat the same sequence as per function nS. Press the stop button to exit the function and oF is displayed.

**oF- DISPLAY OF FILTER OPERATING HOURS.**

When oF is displayed, press start to enter the function. The number of filter operating hours is displayed. To read the number, repeat the same sequence as per function nS. Press the stop button to exit the function and oS is displayed.

**oS- DISPLAY OF TOTAL SOLARIUM OPERATING HOURS.**

When oS is displayed, press start to enter the function. The total number of solarium operating hours is displayed. To read the number, repeat the same sequence as per function nS. Press the stop button to exit the function oS. When exiting, dC is displayed.

**dC- DISPLAY OF FIRMWARE (software microcontroller) CARD DATE.**

When dC is displayed, press start to enter the function. The year and then the week of the firmware is displayed.

E.g.:

When pressing the start key, the display shows	1.4
When pressing the start key again	2.0
When pressing the start key again	3.4
When pressing the start key again	4.3

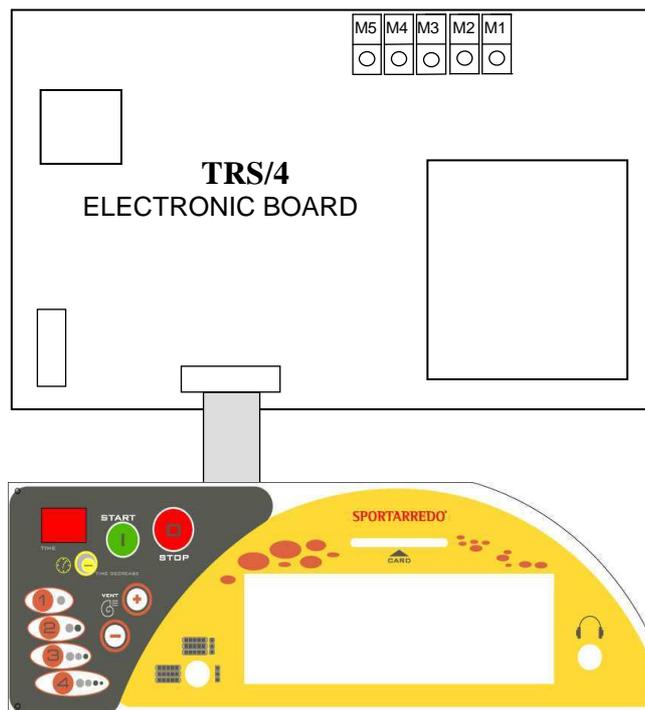
Therefore, the figure is 3404. In practice the firmware is of the 34th week of year 2004.

If the start key is pressed again, the display again shows the data indicated in position 1.

Press the stop key to exit the dC function. When exiting, PL is displayed.

**At this point, programming has been completed.**

**To return to normal operation, switch off and reset.**

**8.2 ELECTRONIC CONTROL BOARD CONNECTIONS****CIRCUIT BOARD TERMINALS: NUMBERING AND DESCRIPTION**

1	Power supply phase.
2	Power supply neutral
3	Control phase for lamps switch-on
4	Alimentation phase
5	Control phase for body-cooling ventilation

**IMPORTANT !**  
**ALWAYS DISCONNECT THE MACHINE FROM THE POWER SUPPLY BY PRESSING BREAKER BEFORE CARRYING OUT MAINTENANCE**

**ANY TAMPERING WITH THE APPLIANCE OR THE USE OF NON-ORIGINAL MATERIAL OR PARTS MAY LEAD TO INJURY. IN SUCH CASES, THE MANUFACTURER DECLINES ALL CIVIL AND PENAL LIABILITY, AND THE WARRANTY SHALL AUTOMATICALLY BE CONSIDERED NULL AND VOID.**

## 9 - TROUBLESHOOTING AND RAPID DIAGNOSTICS

### 9.1 TROUBLESHOOTING AND RAPID DIAGNOSTICS

- **The solarium does not switch on and the pushbutton display panel does not light.**
  - 1 - Check the position of the lever on the overload cut-out switch.
  - 2 - Check that the power supply terminal board is connected to the power supply.  
See "MASTERSUN 360 2/10" circuit diagram.
  - 3 - Check the fuses on the timer board "TRS/4".
  - 4 - Check the voltage ( 230V ~ ) across terminals 1 and 2 on board "TRS/4".  
See "MASTERSUN 360 9/10" circuit diagram.
  - 5 - The canopy and base lamps are switched off, the thermic protection is now working (see figure 20); make sure that the air extraction ducts are free or are not insufficiently.
- **The display panel lights up but the solarium does not switch on when START is pressed.**
  - 1 - Switch the solarium off using the overload cut-out switch, wait 5 seconds and then switch on again.
- **The display panel lights up but when START is pressed the ventilation system only is switched on.**
  - 1 - Check that remote control switch "HR1-HR2" operate correctly.  
See MASTERSUN 360 2/10 circuit diagram.
  - 2 - Check the voltage 230V ~ across terminals 2 and 3 of the timer board "TRS/4".  
See "MASTERSUN 360 9/10" circuit diagram.
- **The display panel lights up but when START is pressed only the lamps switch on (no ventilation).**
  - 1 - Check that remote control switch "HRV" operates correctly.  
See "MASTERSUN 360 2/10" circuit diagram.
  - 2 - Check the voltage 230V ~ across terminals 2 and 4 of the timer board "TRS/4".  
See "MASTERSUN 360 9/10" circuit diagram.
- **Body cooling system inoperative or cannot be regulated.**
  - 1 - Check the voltage ( variable up to a maximum of 230V ~ ) across terminals 2 and 5 of the timer board "TRS/4".  
See "MASTERSUN 360 2/10" circuit diagram.
- **One lamp of the high pressure does not switch on.**
  - 1 - Check for voltage on the wiring to the lamp. Check the ignition ballast or the ignitor for the lamp.

**WARNING: The central terminals of the igniters for the high-pressure lamps carry extremely high voltage.**

- **The radio does not work.**
  - 1 - Check that the output of the power supply module "AL-12" carries 12Vdc.  
See "MASTERSUN 360 2/10" circuit diagram.

## 10 - DEMOLITION AND WASTE MATERIALS

### 10.1 WASTE MATERIALS

The lamps are considered as disposable waste materials and all the materials regarding the packing. Due to their characteristics, these lamps are classified as non-toxic and non-harmful **special waste materials**. Disposal of the lamps must therefore be effected as required by the appropriate legislation.

**DEFINITION OF SPECIAL WASTE MATERIAL:** Residual material deriving from industrial processes or agricultural, artisan, commercial or service activities which, in view of their quantity of characteristics, are not classified as normal household refuse.

### 10.2 DEMOLITION OF THE MACHINE

Each country applies specific legislation concerning the disposal of machinery. Disposal of this machine must be carried out in compliance with the regulations laid down by local legislation and bye-laws. Dismantle the machine and group the various parts according to their chemical characteristics.

**Dismantling of the machine must be performed by qualified personnel**

## 11 - REPLACEMENTS AND CIRCUIT DIAGRAMS

### 11.1 SPARE PARTS LIST

REF	PC	CODE	DESCRIPTION
1	7	4028.4400.03	ZRM12 ES B IGNITOR
2	23	4028.4400.04	ZRM6 ES B IGNITOR
3	1	4028.1003.04	12V FEEDER
4	1	4028.1002.09	18W MEC FEEDER
5	1	4028.1002.08	36W MEC FEEDER
6	7	16973.001.0.0	MYSUN 1500W BALLAST
7	23	16973.000.0.0	MYSUN 600W BALLAST
8	2	4027.3030.04	LOUDSPEAKER
9	2	4025.7000.20	400N ACTUATOR
10	1	4027.3028.01	ANTENNA
11	1	4027.3025.04	CD/RADIO
12	4	4028.4307.06	1,5µF CONDENSER
13	1	4028.4310.00	2,5µF CONDENSER
14	9	4028.4304.00	20µF CONDENSER
15	21	4028.4300.00	65µF CONDENSER
16	1	4028.6000.01	REVALCO HOUR-COUNTER
17	1	4028.2101.10	CONTACT FOR SELECTOR
18	1	4028.2100.10	FANTINI&COSMI HR 46 CONTACTOR
19	2	4028.2100.04	FANTINI&COSMI HR 1710 CONTACTOR
20	1	4028.2100.06	FANTINI&COSMI HR 2510 CONTACTOR
21	90	16976.004.0.0	COBALT FILTER 230X75
22	10	16976.006.0.0	SUPERLUX FILTER TR-T 26X30
23	30	16976.051.0.0	SUPERLUX FILTER TR-T 26X21
24	22	4028.3127.07	10,3x38 - 15A FUSE
25	2	4028.3125.06	5x20 - 6,3A FUSE
26	7	4028.4002.01	KALFASUN 1530F LAMP
27	23	4028.4002.00	KALFASUN 630F LAMP
28	3	4028.4013.09	OSRAM LAMP 18W
29	3	16960.008.0.0	TRACTION SPRING
30	7	14073.047.0.0	MX1530 REFLECTOR
31	23	14073.046.0.0	MX630 REFLECTOR
32	1	16926.122.0.0	ACRYLIC INTERMEDIATE
33	1	16946.412.0.0	ACRYLIC BED
34	1	16946.422.0.0	ACRYLIC WITH SILKSCREEN
35	3	4028.3311.01	NEON HOLDER WITH STARTER
36	3	4028.3311.00	NEON HOLDER WITHOUT STARTER
37	2	4028.2140.05	THERMIC PROTECTION 90°C
38	3	4028.2140.06	THERMIC PROTECTION 110°C
39	1	4028.4502.03	T-MAX RELAY
40	1	15906.026.0.0	ELECTRONIC BOARD FOR PANEL JACK
41	1	15906.038.0.0	TRS/4 ELECTRONIC CONTROL BOARD
42	1	14003.087.0.0	TRS/4 ELECTRONIC CONTROL BOARD COMPLETE
43	1	14703.033.0.0	CARD ACCEPTOR
44	1	14003.091.0.0	SCT/1 CONTROL CIRCUIT BOARD FOR THERMICS
45	1	4028.2187.03	SELECTOR
46	5	4026.1010.04	MICRO SWITCH
47	1	4028.4502.03	RELAY FOR MICRO SWITCH
48	3	4028.4021.00	STARTER
49	1	16916.089.0.0	ORANGE LITTLE CARPET
50	1	16916.090.0.0	CUSHION
51	1	15906.045.0.0	KEYBOARD
52	1	4028.2116.04	TIMER OMRON
53	3	4028.0050.00	ECOFIT 2GDS15 120X126L FAN
54	6	4028.0049.00	EBM D2E 146-HT FAN
55	4	4028.0043.01	EBM D2E 097 FAN
56	2	4028.0021.00	EBM W2S/130 AA0301 FAN
57	1	16946.418.0.0	ORANGE CAP RIGHT OF CANOPY
58	1	16946.419.0.0	ORANGE CAP LEFT OF CANOPY
59	1	15946.045.0.0	ORANGE COVER FOR LOUDSPEAKERS
60	1	15946.042.0.0	BASE FRONT COVER
61	1	15946.043.0.0	ORANGE BASE COVERING WITH HOLES (RIGHT)
62	1	15946.044.0.0	ORANGE BASE COVERING WITH HOLES (LEFT)
63	10	16946.416.0.0	GRID COVERING FOR COLUMN
64	1	16946.417.0.0	LATERAL COVERING
65	1	16946.420.0.0	LATERAL COVERING RIGHT
66	1	16946.421.0.0	LATERAL COVERING LEFT
67	1	15946.047.0.0	ORANGE COVERING OF CANOPY
68	2	15946.046.0.0	FAN COVERING OF CANOPY

## 11.2 CIRCUIT DIAGRAMS LEGEND

SYMBOLS	DESCRIPTION
	Earth terminal
<b>A1÷A12</b> <b>16973.000.0.0</b>	Ballast for KALFASUN 630F lamps (see diagram legend)
<b>A1÷A7</b> <b>4028.1000.04</b>	Ballast for KALFASUN 1530F lamps (see diagram legend)
<b>AC</b> <b>4028.4400.04</b>	Igniters for KALFASUN 630F lamps (see diagram legend)
<b>AC1</b> <b>4028.4400.03</b>	Igniters for KALFASUN 1530F lamps (see diagram legend)
<b>AL12</b> <b>4028.1003.04</b>	Power supply circuit board for 12Vdc radio/CD
<b>C...</b> <b>4028.4307.06</b>	1,5µF condenser (see circuit diagram legend)
<b>C...</b> <b>4028.4310.00</b>	2,5µF condenser (see circuit diagram legend)
<b>C1-....</b> <b>4028.4300.00</b>	65µF condenser (see circuit diagram legend)
<b>C2-....</b> <b>4028.4304.00</b>	20µF condenser (see circuit diagram legend)
<b>CN1-CN2</b>	White connector for loudspeakers
<b>CNB1</b>	16-pin connector for ballasts box base (columns 1-2) - base column 1
<b>CNB2</b>	16-pin connector for ballasts box base (columns 1-2) - base column 2
<b>CNC</b>	10-pin connector for lateral - control board
<b>CNL</b>	16-pin connector for control box - lateral
<b>CNRB</b>	16-pin connector for control box - ballasts box base (columns 1-2)
<b>CNRT</b>	24-pin connector for control box-ballasts box canopy (columns 3-5)
<b>CNRV</b>	16-pin connector for control box - ballasts box face (column 4)
<b>CNT3</b>	16-pin connector for ballast box canopy (columns 3-5) - canopy column 3
<b>CNT4</b>	16-pin connector for ballast box face (column 4) - canopy column 4
<b>CNT5</b>	16-pin connector for ballast box canopy (columns 3-5) - canopy column 5
<b>CNW 1-2-4-5- 6-7-8</b>	3-pin black connector
<b>CNW3</b>	7-pin black connector
<b>CO</b> <b>4028.6000.01</b>	Hour counter
<b>F1÷F22</b> <b>4028.3127.07</b>	15A fuse (see fuses and connector circuit diagram legend)
<b>F23</b> <b>4028.3125.06</b>	6,3A fuse type AT(see fuses and connector circuit diagram legend)
<b>F24</b> <b>4028.3126.11</b>	2A fuse(see fuses and connector circuit diagram legend)
<b>HR1</b> <b>4028.2100.10</b>	Contact for 1 <sup>st</sup> starting
<b>HR2</b> <b>4028.2100.06</b>	Contact for 2 <sup>st</sup> starting
<b>HRA-/ HRV</b> <b>4028.2100.04</b>	Contact for face/ventilation
<b>Jack</b> <b>15906.026.0.0</b>	Control circuit board for Jack
<b>L</b> <b>4028.4002.00</b>	KALFASUN 630F lamps
<b>L1</b> <b>4028.4001.01</b>	KALFASUN 1530F lamps
<b>L1-L2-L3</b>	Phase terminals

<b>M</b>	16-pin lateral terminal board
<b>MAL</b>	Power supply terminal board
<b>MB</b>	18-pin base terminal board
<b>MB1-2</b>	4-pin fan terminal board
<b>MC</b>	1-pin control board terminal board
<b>ML</b>	3-pin lateral terminal board
<b>MT</b>	20-pin canopy box terminal board
<b>MV</b>	17-pin face terminal board
<b>R</b> <b>4028.1002.08</b>	Ballast 36W
<b>RA</b> <b>4027.3025.04</b>	Radio/CD
<b>RP</b> <b>4028.4502.03</b>	Relay for micro switch
<b>RSP-LSP</b> <b>4027.3030.04</b>	Loudspeakers
<b>RU</b> <b>4028.4502.03</b>	Remote control relay
<b>SA</b> <b>4028.4020.03</b>	Selector
<b>SCT-1</b>	Control circuit board for thermics
<b>SW</b> <b>4026.1010.04</b>	Micro switch
<b>T</b> <b>4028.2116.04</b>	Timer
<b>TP1</b> <b>4028.2140.05</b>	Thermic protection 90°C on base
<b>TP2</b> <b>4028.2140.06</b>	Thermic protection 110°C on canopy
<b>TRS/4</b> 14003.087.0.0	Control board complete
<b>V</b> <b>4028.0050.00</b>	Cooling columns of canopy fan
<b>V</b> <b>4028.0043.01</b>	Cooling columns of base fan
<b>VB</b> <b>4028.0049.00</b>	Cooling columns of base fan
<b>VC</b> <b>4028.0049.00</b>	Body fan
<b>VP</b> <b>4028.0049.00</b>	Cooling acrylic base fan
<b>VR1-VR2</b> <b>4028.0021.00</b>	Cooling ballast box
<b>VT</b> <b>4028.0049.00</b>	Sky air exhaust fan
<b>VV1-VV2</b> <b>4028.0043.01</b>	Cooling face fan

## DESCRIPTION CIRCUIT DIAGRAMS

- 1/10 Voltage change diagram.
- 2/10 Practical diagram of control.
- 3/10 Practical diagram of base ballasts nr.1 and 2.
- 4/10 Practical diagram of face ballasts box nr.4.
- 5/10 Practical diagram of canopy ballasts nr.3 and 5.
- 6/10 Wiring diagram for columns nr.1 and 2 of base.
- 7/10 Wiring diagram for columns nr.3-4-5 of canopy.
- 8/10 10 Wiring diagram of lateral.
- 9/10 Control board diagram.
- 10/10 Fuses and connectors diagram.

## 12 - MEDICATION

### 12.1 MEDICATION

Certain drugs can make your skin sensitive to ultraviolet light. The U.S. Department of Health and Human Services has published a booklet entitled Medications That Increase Sensitivity to Light; A 1990 Listing prepared by Jerome: Levine, M.S., R.Ph: The booklet is HHS Publication FDA 91-8280 and is available from the U.S. Government Printing Office: Refer to this booklet or your health practitioner if you are taking any medications.

Dr. Richard Childers and Dr. Edward Emmett of Jhon Hopkins University compiled a list of drugs, foods, and other substances that could make your skin sensitive to ultraviolet light: This list is presented below:

- Diuretics ( which help prevent water retention ), prescribed for high blood pressure ( for example, Hydrodiuril ).
- Diabetes drugs-Orinase and Diabinase.
- Urinary tract infection treatments with phenothiazines.
- Tranquilizers, such as Thorazine.
- The acne treatment Retin-A.
- Antihistamines-Phenergan and Benadryl-particularity when they are used on the skin in ointment form.
- Antibiotics-Declomycin, Aureozicin, and Griseofulvin, which is use in ringworm treatment.
- Coal tar treatment for psoriasis or chronic eczema.
- Bacterial infection treatments using sulfanilamide.
- Compounds known as furocoumarins or psoralens, which sensitise skin to sunlight whether put on the skin or taken orally. They are prescribed for vitiligo ( loss of skin pigmentation ) and psoriasis.
- Birth control pills. The hormones they contain can react with sunlight and in some cases cause brown patches on the skin.
- Perfumes and colognes containing furocoumarins, compounds from natural products such as plants and fruits. Their natural oils cad sensitise the skin to sunlight.
- Food and fruits that contain photosensitising agents: celery, carrots, limes, coriander, parsley, fennel, dill, buttercup, mustard and figs.

## 13 - WARRANTY

### 13.1 LIMITED WARRANTY

For **USA** see next page.

## TERMS OF WARRANTY

Sportarredo USA, Inc. ("Sportarredo") warrants its tanning beds (the "Products") to be free from defects in materials and workmanship under intended normal use as described in the unit's Operation and Instruction Manual, for a period of two (2) years (the Warranty Period") from date of sale (proved by the invoice's date). This Limited Warranty does not cover the normal wear and tear of the Products.

This Limited Warranty applies only within the United States and Canada to the first end user (the "Buyer") of the Products and becomes void on the transfer or sale of the Products to any party other than the Buyer.

### I. Registration Requirement

**a.** This Limited Warranty becomes effective only if the Buyer fills out and returns the Warranty Certificate, dated and signed by the Buyer, to Sportarredo at the address shown below within thirty (30) days of the sale of the Products.

**b.** By returning the Warranty Certificate to Sportarredo, the Buyer acknowledges to have fully read and understood the user's manual, and to have complied with all the instructions stated in that document.

### II. Installation and Maintenance Requirements

**a.** This Limited Warranty does not apply when the installation has not been performed by Sportarredo's trained and certified technician. For the sake of clarity, the technicians have to be certified by Sportarredo, after attending Sportarredo's training courses.

**b.** This Limited Warranty does not apply if the Products are misused or abused, and there is evidence of mishandling, neglect, modification or repair without the approval of Sportarredo, or damage done to the Products by anyone other than Sportarredo.

**c.** This Limited Warranty does not apply to damages caused during transportation (including transport to and from the Buyer's location); or damage due to improper or lack of maintenance; voltage overloads or "under voltage"; insufficient or abnormal operation of electrical or hydraulic systems; improper or incorrect treatment of water supply; or corrosion caused by condensation or hard water; improper descaling treatments; or in general to any cause which does not specifically depend on defect in material or workmanship.

**d.** This Limited Warranty does not apply if the serial number on the product has been removed, altered or defaced.

### III. Warranty Claim Procedure

In order to submit a Warranty Claim, the Buyer must provide Sportarredo with a written notice of any alleged defects within the Warranty Period, but in any case after no more than ten (10) days from the date of the discovery of the defects. At Sportarredo's option, the Buyer must ship the defective Product(s) to Sportarredo, at the address shown below, with mailing or shipping charged prepaid. Sportarredo shall be liable for and shall pay for the all freight, shipping and delivery costs of forwarding parts sent to Sportarredo for repair or replacement under the Limited Warranty. The Buyer shall be liable and pay for all labor and transportation charges in the event of a house call by an unauthorized technician. Adequate packaging must be used for returned goods to prevent freight damages.

### IV. Warranty Services

**a.** Defective parts will be replaced upon receipt by Sportarredo. Only original parts obtained through Sportarredo USA Inc., its authorized dealers or distributors may be used. Shipping terms, methods, etc. must be pre-approved by Sportarredo prior to the return of the parts in question. Parts, etc. shipped to Sportarredo without prior approval will be refused and the owner/shipper will be responsible for all related shipping costs etc.

**b.** If the Products shall be proved to Sportarredo's satisfaction to be defective within the Warranty Period, Sportarredo's obligation under this Limited Warranty shall be limited to either repairing or replacing the Products, at Sportarredo's sole discretion, if such defect was caused solely by defective workmanship and materials. Such repair or replacement shall be Sportarredo's sole obligation and the Buyer's exclusive remedy hereunder and shall be conditioned upon the Buyer's fulfilling of its obligations under Warranty Claims Procedure. The obligations under this warranty are limited to repair or replacement of any defective part without charge for that part to the original purchaser, with the following exceptions:

**1.** Tanning lamps, filters, starters and igniters are warranted against defects for a period of sixty (60) days from date of sale.

**2.** Radios and speakers are warranted by the radio and speaker Sportarredo for the period of time indicated in their warranty certificates.

**3.** Labor will be furnished without charge for sixty (60) days from the date of purchase only. All labor and related charges must be authorized by Sportarredo USA Inc. prior to start of repairs, and must conform with Sportarredo USA Inc. established rates and time allotment policy.

**4.** All fans and batteries are warranted against defects for a period of two (2) years from date of sale.

**5.** Timer system, plastics reflectors and parts subjected to "normal" wear & tear (meaning parts intended to be used by the final customer during each session, as buttons, switches, profiles, etc) are warranted for one (1) year.

**6.** Acrylics are warranted for twelve (12) month prorated period (this warranty applies only if the "owner" of the units has used appropriate cleaners).

**7.** Mattresses and pillows are warranted for a period of six (6) months from the date of sale.

### V. Exclusion from Limited Warranty

The following are not covered by this Limited Warranty

Scratches, splinters, or marks to the Products, unless Sportarredo is notified as soon as the Products are received by the Buyer;

Normal wear and tear;

Defects not caused by the Products, but that are the result of improper installation;

Misuse or abuse by the Buyer;

Physical damage to the Product as a result of unreasonable use and/or negligence.

#### VI. Limitations on Warranty

This Limited Warranty is provided by Sportarredo, and it contains the only express warranty provided to the Buyer by Sportarredo. Sportarredo does not authorize any other person, including distributors, sub-distributors, agents, to give any other warranties on Sportarredo's behalf.

**SPORTARREDO DISCLAIMS ANY EXPRESS WARRANTY NOT PROVIDED HEREIN AND ANY IMPLIED WARRANTY, GUARANTY OR REPRESENTATION AS TO PERFORMANCE, QUALITY AND ABSENCE OF HIDDEN DEFECTS, AND ANY REMEDY FOR BREACH OF CONTRACT, WHICH BUT FOR THIS PROVISION, MIGHT ARISE BY IMPLICATION, OPERATION OF LAW, CUSTOM OF TRADE OR COURSE OF DEALING, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SPORTARREDO FURTHER DISCLAIMS ANY RESPONSIBILITY FOR LOSSES, EXPENSES INCONVENIENCES, SPECIAL, INDIRECT, SECONDARY OR CONSEQUENTIAL, INCIDENTAL, AND CONTINGENT DAMAGES WHATSOEVER, INCLUDING DAMAGES ARISING FROM OWNERSHIP OR USE OF PRODUCT.**

Implied warranties in jurisdictions where they may not be disclaimed shall be in effect only for the duration of the express warranty set forth herein.

If the Buyer has a claim under this Limited Warranty or under any implied warranties provided to the Buyer by state law, the Buyer may not file a court action based on that claim any later than one (1) year after the Buyer's right to file a court action accrues. In those states that do not allow this limitation on the time period for filing a court action, this provision is inapplicable.

#### VII. Sportarredo's Liability

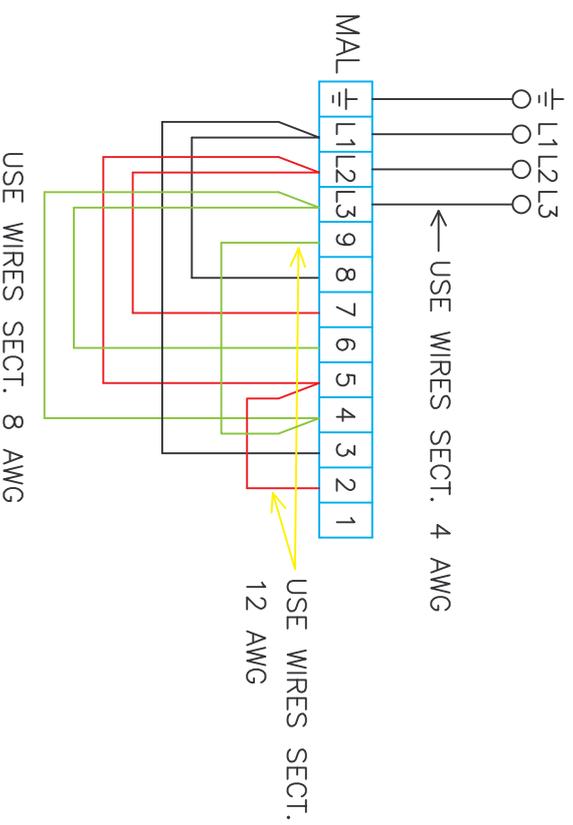
**a.** Sportarredo's liability with respect to the Product sold to the Buyer shall be limited to the Limited Warranty provided herein. Sportarredo SHALL NOT BE SUBJECT TO ANY OTHER OBLIGATIONS OR LIABILITIES, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORIES OF LAW, WITH RESPECT TO THE PRODUCTS SOLD OR SERVICES RENDERED BY SPORTARREDO, OR ANY UNDERTAKING, ACTS OR OMISSIONS RELATING THERETO.

**b.** Without limiting the foregoing, Sportarredo specifically disclaims any liability for property or personal injury damages, penalties, special or punitive damages, damages for lost profits or revenues, services, down time, shut down or slow down costs, or for any other types of economic loss, and for claims of the Buyer's customers or any third party for any such damages. Sportarredo SHALL NOT BE LIABLE FOR AND DISCLAIMS ALL CONSEQUENTIAL, INCIDENTAL, AND CONTINGENT DAMAGES WHATSOEVER.

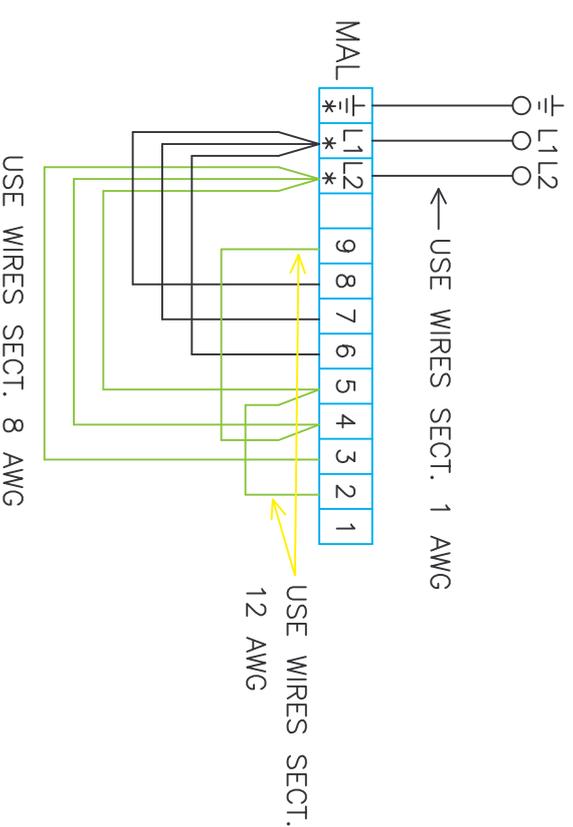
FUSE n°	A	PROTECTION
1	12 delay	LAMP 1 – CANOPY 4
2	12 delay	LAMP 2 – CANOPY 4
3	12 delay	LAMP 3 – CANOPY 4
4	12 delay	LAMP 4 – CANOPY 4
5	12 delay	LAMP 5 – CANOPY 4
6	12 delay	LAMP 6 – CANOPY 4
7	12 delay	LAMP 1 – CANOPY 3
8	12 delay	LAMP 2 – CANOPY 3 and 4
9	12 delay	LAMPS 3-4 – CANOPY 3
10	12 delay	LAMPS 5-6 – CANOPY 3
11	12 delay	LAMPS 1 – CANOPY 5
12	12 delay	LAMPS 3-4 – CANOPY 5
13	12 delay	LAMPS 5-6 – CANOPY 5
14	12 delay	LAMPS 1-2 – BED 1
15	12 delay	LAMPS 3-4 – BED 1
16	12 delay	LAMPS 5-6 – BED 1
17	12 delay	LAMPS 1-2 – BED 2
18	12 delay	LAMPS 3-4 – BED 2
19	12 delay	LAMPS 5-6 – BED 2
20	12 delay	CONTROL BOARD + FAN
21	12 delay	FANS
22	12 delay	AIR-CONDITIONER ARRANGEMENT
23	6,3 delay	BED ILLUMINATIONS LAMPS+CANOPY
24	2 delay	VOCAL CONTROL ARRANGEMENT+T-MAX
25	2 delay	CIRCUIT BOARD SCT

CONNECTOR A	POSITION (A)	↔	POSITION (B)	CONNECTOR B
CNRT	CONTROL BOX		BALLASTS BOX CANOPY (COLUMNS 3 and 5)	CNRT
CNRB	CONTROL BOX		BALLASTS BOX BASE (COLUMNS 1 and 2)	CNRB
CNRV	CONTROL BOX		BALLASTS BOX FACE (COLUMN 4)	CNRV
CNL	CONTROL BOX		LATERAL	CNL
CNB1	BALLASTS BOX BASE (COLUMNS 1 and 2)		BASE COLUMN 1	CNB1
CNB2	BALLASTS BOX BASE (COLUMNS 1 and 2)		BASE COLUMN 2	CNB2
CNT3	BALLASTS BOX CANOPY (COLUMNS 3 and 5)		CANOPY COLUMN 3	CNT3
CNT4	BALLASTA BOX FACE (COLUMN 4)		CANOPY COLUMN 4	CNT4
CNT5	BALLASTS BOX CANOPY (COLUMNS 3 and 5)		CANOPY COLUMN 5	CNT5
CNC	LATERAL		CONTROL BOARD	CNC

<b>SPORTAREDDI s.p.a.</b> Via dell'Industria, 7 30020 GRUGARO (VE) tel. 0421/767650 - fax 767655 PROPRIETÀ RISERVATA DELLA DITTA SPORTAREDDI È vietato riprodurre o comunicare a terzi il contenuto del presente disegno		<b>DESCRIZIONE:</b> SCHEMA FUSIBILI E CONNETTORI FUSES AND CONNECTOR DIAGRAM SCHMELZ UND VERBINDER DIAGRAM SCHEMA FUSIBLES ET CONNECTEUR ESQUEMA FUSIBLES Y CONECTORES		<b>Modello:</b> MASTER SUN <b>Versioni:</b> USA <b>360</b>	
CODICE: 10097.026.00 (230V 3F 60Hz)	Rif	Modifiche	Data	Firma	Schema: n° 10/10
10099.002.00 (230V MONO 60Hz)	a	-	-	-	Data: 29/08/05
-	b	-	-	-	Dis: A.Colavitti
-	c	-	-	-	Contr: -
-	d	-	-	-	File: 038_10usa.dwg
-	e	-	-	-	



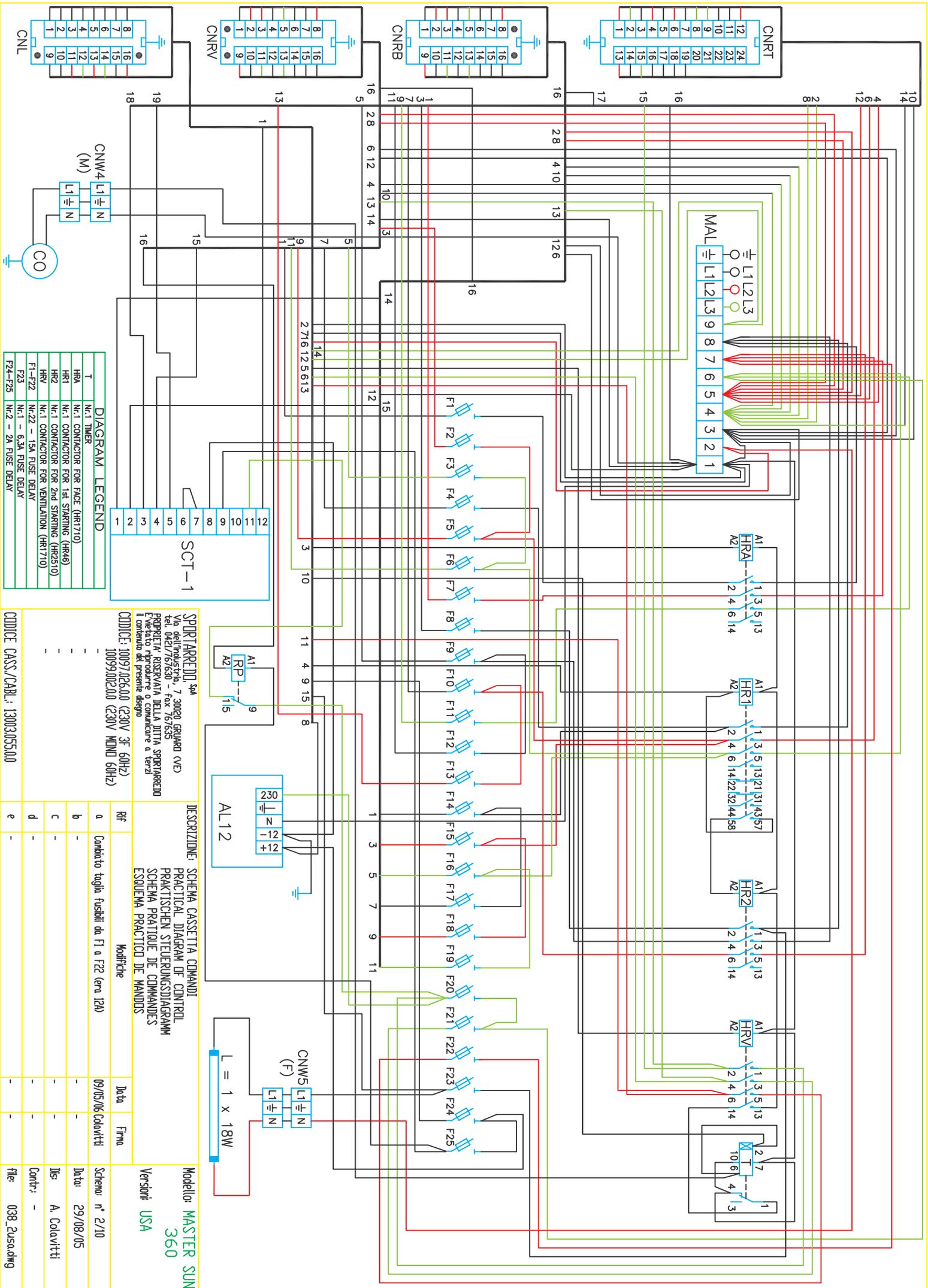
V = 230V 3F~ 60HZ



V = 230V MONO 60HZ

\* REPLACE TERMINALS INDICATED WITH  
TERMINALS LEGRAND cod. 39070 150A

<b>SPORTAREDDI S.p.A</b> Via dell'Industria, 7 30060 GRUGARO (VE) tel. 0421/767530 - fax 767635 PROPRIETÀ RISERVATA DELLA DITTA SPORTAREDDI Metodo "produttore o commerciante" a terzi Il contenuto del presente disegno		<b>DESCRIZIONE:</b> VOLTAGE-CHANGE DIAGRAM SCHEMA CAMBIO TENSIONE DIAGRAMM FÜR SPANNUNGSÄNDERUNG SCHEMA CHANGE TENSION ESQUEMA CAMBIO TENSIÓN		<b>Modello:</b> MASTER SUN <b>360</b> <b>Versioni:</b> USA	
<b>CODICE:</b> 10097.026.00 (230V 3F 60Hz)	<b>RF</b>	<b>Data</b>	<b>Frma</b>	<b>Schema:</b> n° 1/10	
10099.002.00 (230V MONO 60Hz)	a	-	-	-	<b>Data:</b> 29/08/05
-	b	-	-	-	<b>Dise:</b> A. Colavitti
-	c	-	-	-	<b>Contr.:</b> -
-	d	-	-	-	<b>File:</b> 038_Lusa.dwg
<b>CODICE CASS./CABL.:</b> -	e	-	-	-	



**DIAGRAM LEGEND**

T	Nr.1 TIMER
HRA	Nr.1 CONTACTOR FOR FACE (HR1710)
HRI	Nr.1 CONTACTOR FOR 1st STARTING (HR46)
HR2	Nr.1 CONTACTOR FOR 2nd STARTING (HR2510)
HRV	Nr.1 CONTACTOR FOR VENTILATION (HR1710)
FT-F22	Nr.22 - 15A FUSE DELAY
F23	Nr.1 - 6.3A FUSE DELAY
F24-F25	Nr.2 - 2A FUSE DELAY

**SPORTAREDDI S.p.A**  
 Via dell'Industria, 7 30060 GRAPPO (VE)  
 Tel. 0421/767501 Fax 767635  
 PROPRIETÀ RISERVATA DELLA DITTA SPORTAREDDI  
 Il diritto di riproduzione o comunque a terzi  
 è consentito dal presente disegno

**CODICE: 10097.025A00 (230V 3F 60Hz)**  
**10099.002A00 (230V MONO 60Hz)**

**DESCRIZIONE: SCHEMA CASSETTA COMANDI**  
**PRACTICAL DIAGRAM OF CONTROL**  
**PRAKTISCHEN STEUERUNGSDIAGRAMM**  
**SCHEMA PRACTIQUE DE COMMANDES**  
**ESQUEMA PRACTICO DE MANDUS**

**Modello: MASTER SUN 360**  
**Versione: USA**

Rif	Descrizione	Data	Firma
a	Cambio to taglia fusibili da FI a F22 (era 12A)	09/05/06	Colavitti
b	-	-	-
c	-	-	-
d	-	-	-
e	-	-	-

Modifiche

Schema: n° 2/10  
 Data: 29/08/05  
 Dis: A. Colavitti  
 Contr.: -  
 File: 038\_2usa.dwg

**CODICE CASS./CABL. 13013055A00**

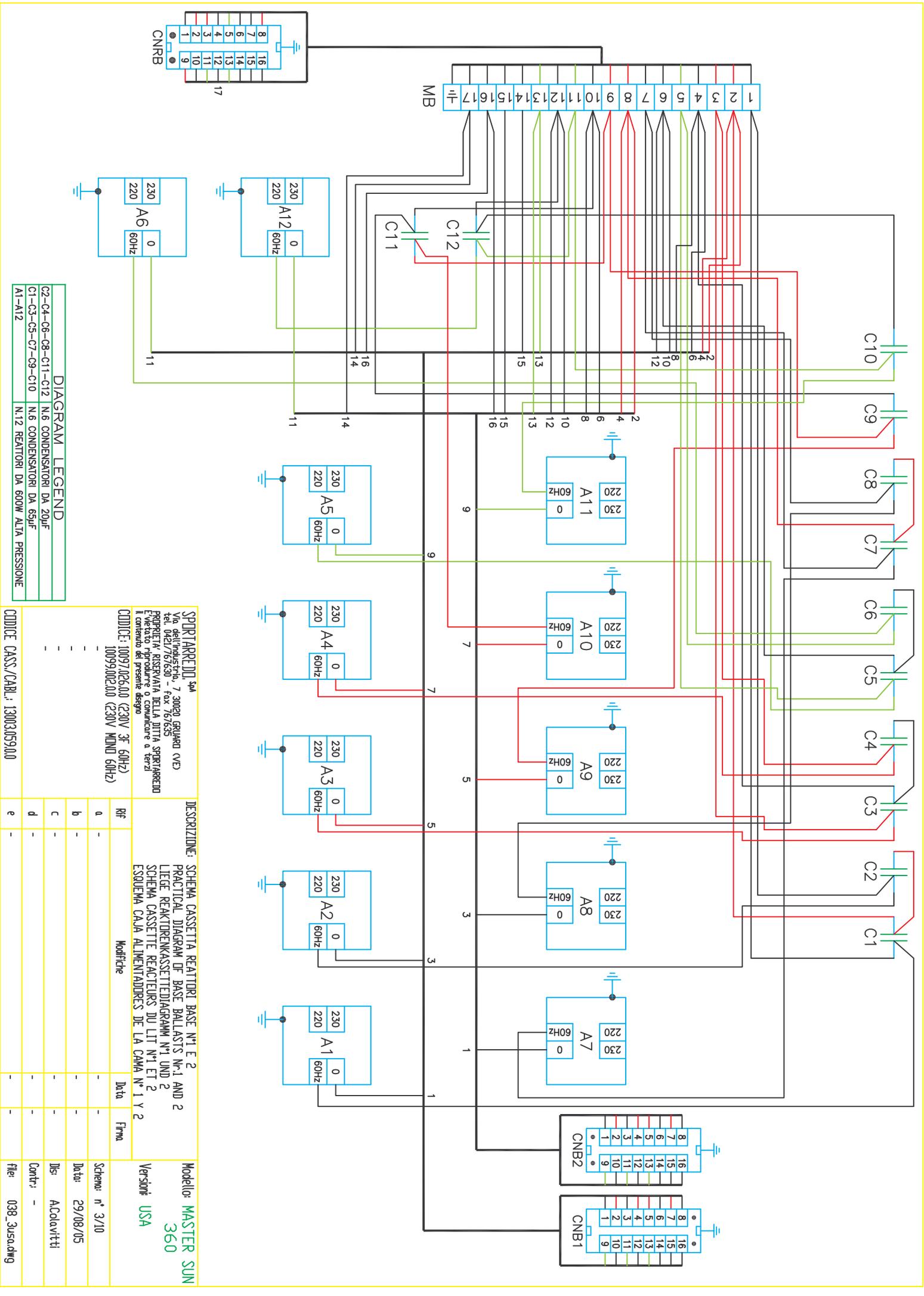
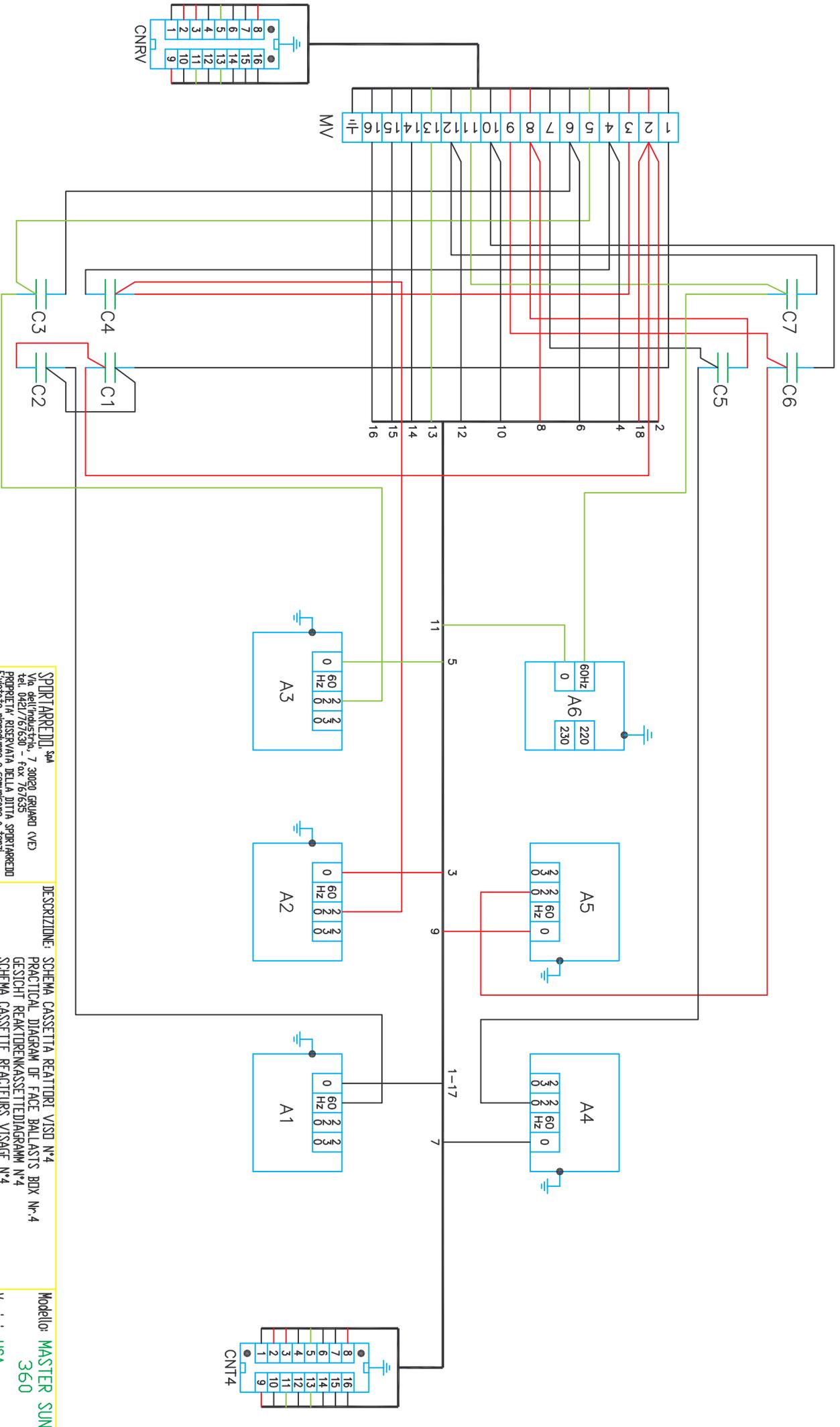


DIAGRAM LEGEND

C2-C4-C6-C8-C11-C12	N.6 CONDENSATORI DA 20µF
C1-C3-C5-C7-C9-C10	N.6 CONDENSATORI DA 65µF
A1-A12	N.12 REATTORI DA 600W ALTA PRESSIONE

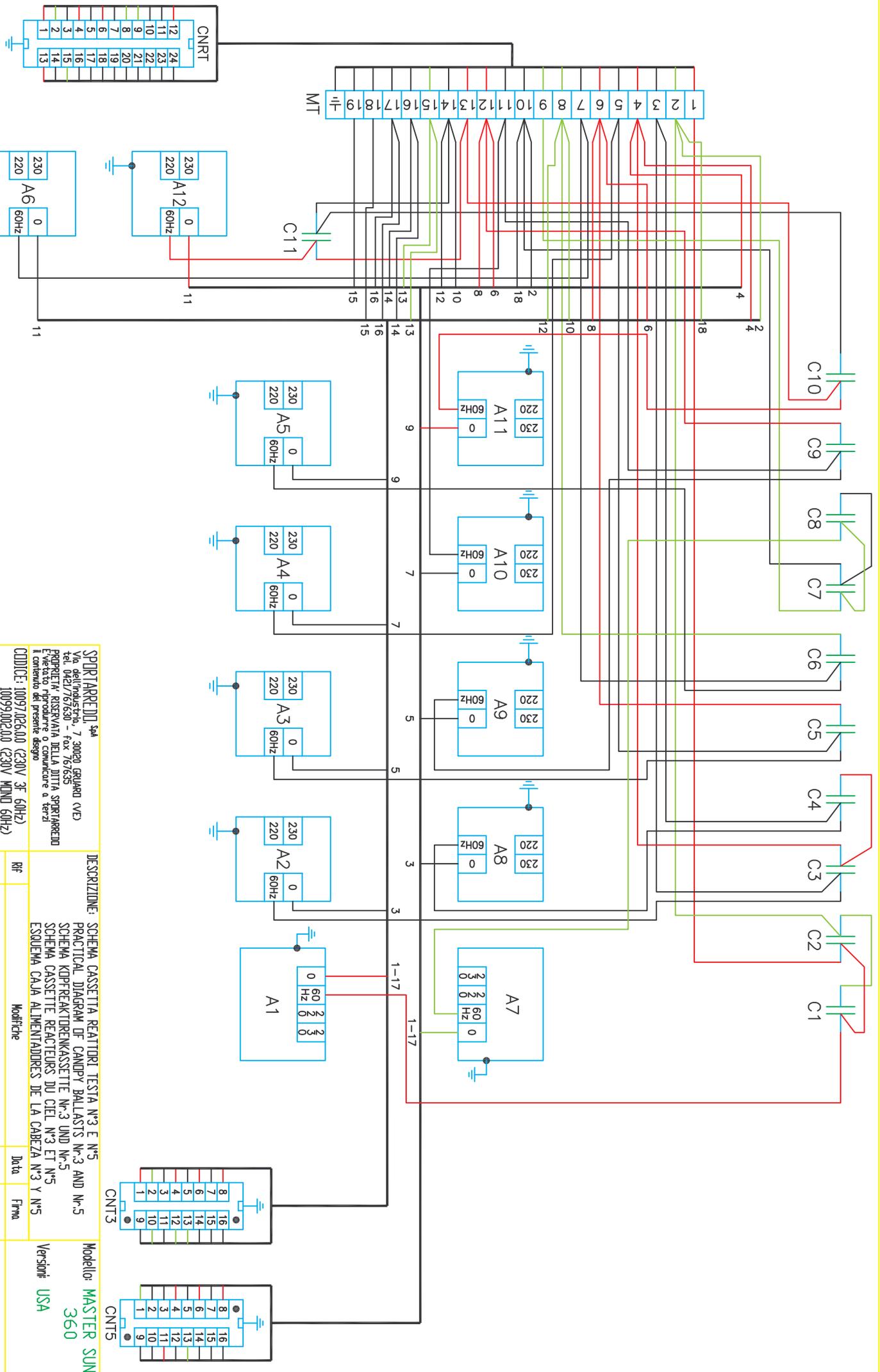
<b>SPORTAREDDI S.p.A</b> Via dell'Industria, 7 30060 GRUPPO (VE) tel. 0421/797530, fax 797535 PROPRIETÀ RISERVATA DELLA DITTA SPORTAREDDI È vietato riprodurre o comunicare a terzi il contenuto del presente disegno		<b>DESCRIZIONE:</b> SCHEMA CASSETTA REATTORI BASE N°1 E 2 PRACTICAL DIAGRAM DE BASE BALLASTS N°1 AND 2 LIEGE REAKTIDENKASSETTEDIAGRAMM N°1 UND 2 SCHEMA CASSETTE REACTEURS DU LIT N°1 ET 2 ESQUEMA CAJA ALIMENTADRES DE LA CAMA N° 1 Y 2		<b>Modello:</b> MASTER SUN 360
CODICE: 10097.026.00 (230V 3F 60Hz)	REF	Modifiche	Versioni	USA
10099.002.00 (230V MIND 60Hz)	a			
-	b			
-	c			
-	d			
-	e			
CODICE CASS./CABL.: 13013.059.00	Schema: n° 3/10	Data: 29/08/05	Dise: A.Colavitti	File: 038_3usa.dwg



**DIAGRAM LEGEND**

C1-C2-G3-C4-C5-C6	Nr.6 - 65uF CONDENSER
C7	Nr.1 - 20uF CONDENSER
A6	Nr.1 - 600W BALLASTS HIGH PRESSURE
A1-A5	Nr.5 - 1500W BALLASTS HIGH PRESSURE

<p><b>SPORTAREDDI spa</b>          Via dell'Industria, 7 30020 GRUPPO (VE)          tel. 0421/767530 - fax 767633          PROPRIETÀ RISERVATA DELLA DITTA SPORTAREDDI          È vietato riprodurre o comunicare a terzi          il contenuto del presente disegno</p>		<p><b>DESCRIZIONE:</b> SCHEMA CASSETTA REATTORI VISIO N°4          PRACTICAL DIAGRAM DE FACE BALLASTS BOX N°4          GESICHT REAKTORENKASSETTEDIAGRAMM N°4          SCHEMA CASSETTE REACTEURS VISAGE N°4          ESQUEMA CAJA ALIMENTADORES DE LA CARA N°4</p>		<p><b>Modello:</b> MASTER SUN          360</p>	
CODICE: 10097.026.00 (230V 3F 60Hz)	Rif	Modifiche	Data	Firma	Versioni
10099.002.00 (230V MONO 60Hz)	a	-	-	-	USA
-	b	-	-	-	
-	c	-	-	-	
-	d	-	-	-	
-	e	-	-	-	
CODICE CASS./CABL.: 13013056.00	<p>Schema: n° 4/10          Data: 29/08/05          Dis: A.Colavitti          Contr.: -          File: 038_4usa.dwg</p>				



**DIAGRAM LEGEND**

C8-C11	Nr.2 - 20µF CONDENSER
C1-C2-C3-C4-C5C6-C7-C9-C10	Nr.9 - 65µF CONDENSER
A2-A3-A4-A5-A6	Nr.10 - 600W BALLASTS HIGH PRESSURE
A8-A9-A10-A11-A12	Nr.2 - 1500W BALLASTS HIGH PRESSURE
A1-A7	

**SPORTAREDDI S.p.A**  
 Via dell'Industria, 7 30020 GRUPPO (VE)  
 tel. 0421/767830 fax 767835  
 PROPRIETÀ RISERVATA DELLA DITTA SPORTAREDDI  
 È vietato riprodurre o comunicare a terzi  
 il contenuto del presente disegno

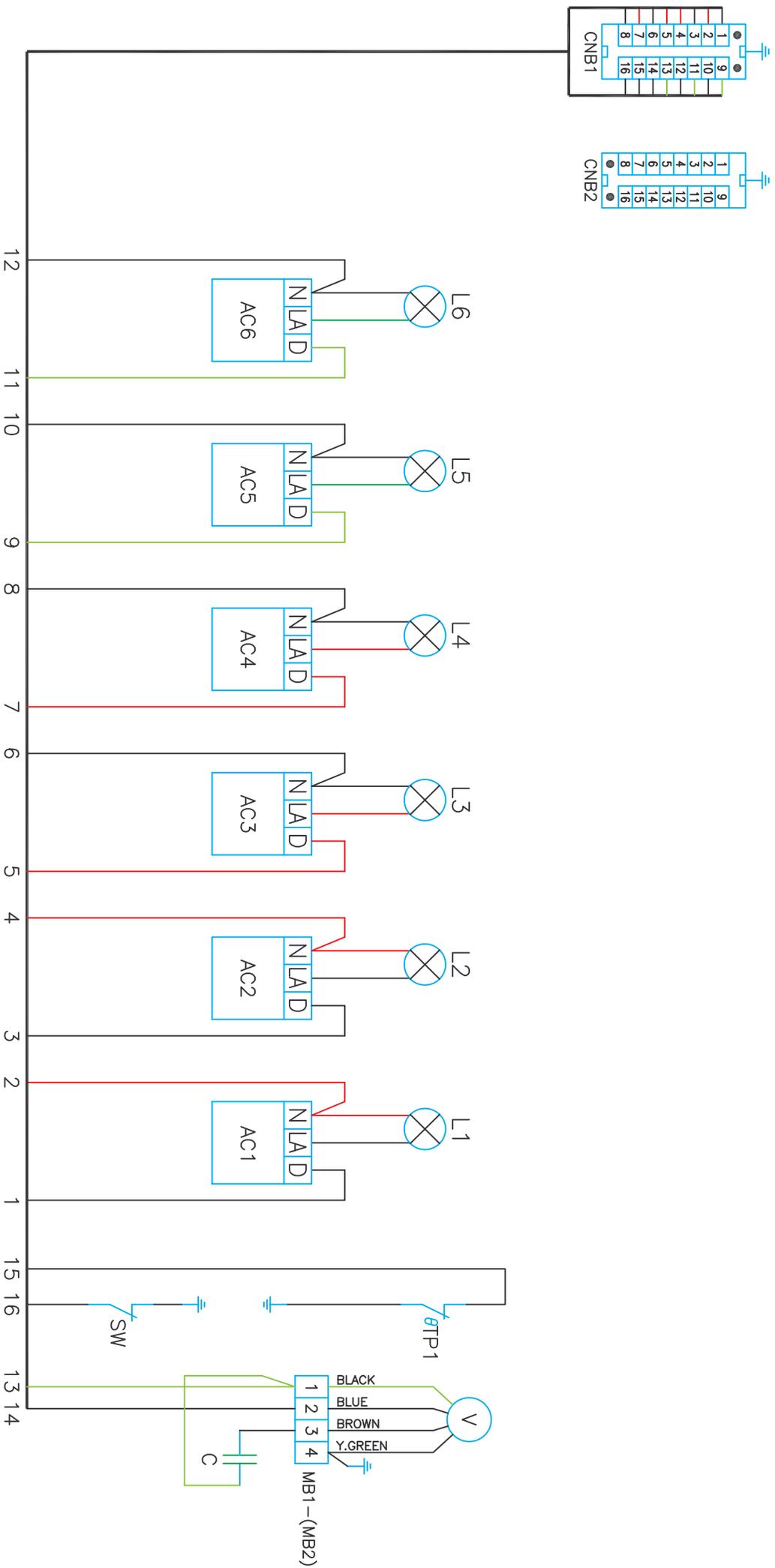
**DESCRIZIONE:** SCHEMA CASSETTA REATTORI TESTA N°3 E N°5  
 PRACTICAL DIAGRAM OF CASSETTE BALLASTS N°3 AND N°5  
 SCHEMA KOPFKREIHKASSETTE N°3 UND N°5  
 SCHEMA CASSETTE REACTEURS DU CIEU N°3 ET N°5  
 ESQUEMA CAJA ALIMENTADORES DE LA CABEZA N°3 Y N°5

RFI	Modifiche	Data	Firma
a	-	-	-
b	-	-	-
c	-	-	-
d	-	-	-
e	-	-	-

**Modello:** MASTER SUN 360  
**Versioni:** USA

Schema: n° 5/10  
 Data: 29/08/05  
 Dis: A.Colavitti  
 Contr.: -  
 File: 038\_Susa.dwg

CODICE CASS./CABL.: 1301306000



**DIAGRAM LEGEND**

SW	Nr.1 MICROSWITCH
TP1	Nr.1 THERMIC
C	Nr.1 – 1.5µF CONDENSER
AC	Nr.6 – 600W HIGH PRESSURE
L	Nr.6 LAMP 600W HIGH PRESSURE
V	COOLING COLUMNS OF BED FAN

<b>SPORTAREDDI s.p.a.</b> Via dell'Industria, 7 30060 GRAPPO (VE) tel. 0421/767530, fax 767633 PROPRIETÀ RISERVATA DELLA DITTA SPORTAREDDI È vietato riprodurre o comunicare a terzi il contenuto del presente disegno		<b>DESCRIZIONE:</b> SCHEMA CABLAGGIO COLONNE N°1 E 2 DELLA BASE WIRING DIAGRAM FOR COLUMNS N°1 AND 2 OF BASE SCHEMABELUNGUNG FÜR KOLONNE N°1 UND 2 DER LIEGE SCHEMA CABLAGE DES COLONNES N°1 ET 2 DU LIT ESQUEMA CABLAGE DE LAS CILONNAS N°1 Y 2 DE LA CANA		<b>Modello:</b> MASTER SUN 360	
<b>CODICE:</b> 10097.0256.00 (230V 3F 60Hz) 10099.0022.00 (230V MONO 60Hz)		<b>Modifiche</b>		<b>Versioni:</b> USA	
Rif		Data	Firma	Schema: n°	6/10
a	-	-	-	Data:	29/08/05
b	-	-	-	Dise:	A.Colavitti
c	-	-	-	Cont'ri:	-
d	-	-	-	File:	038_gusa.dwg
e	-	-	-		

CODICE CASS./CABL.: 17073180.00

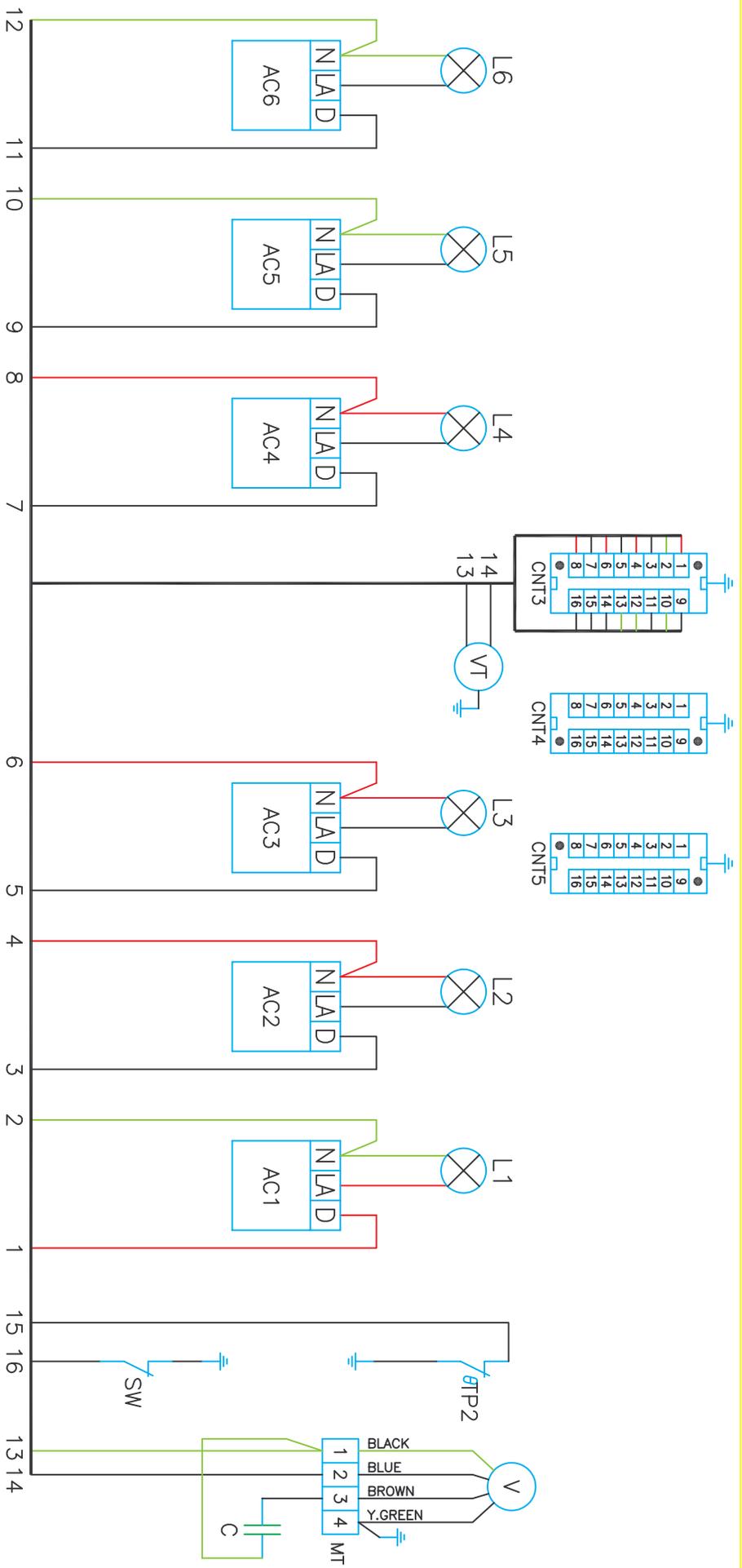


DIAGRAM LEGEND FOR CANOPY COLUMNS N°3 AND 5

SW	Nr.1 MICROSWITCH
TP2	N.1 THERMIC
C	N.1 – 2,5µF CONDENSER
AC1	N.1 – 1000W IGNITER
AC2-AC6	N.5 – 600W IGNITER
L1	N.1 LAMP 1500W HIGH PRESSURE
L2-L6	N.5 LAMP 600W HIGH PRESSURE
VT	SKY AIR EXHAUST FAN
V	COOLING COLUMNS OF CANOPY FAN

DIAGRAM LEGEND FOR CANOPY COLUMN N°4

SW	Nr.1 MICROSWITCH
TP2	N.1 THERMIC
C	N.1 – 2,5µF CONDENSER
AC1-AC5	N.5 – 1000W IGNITER
AC6	N.1 – 600W IGNITER
L1-L5	N.5 LAMP 1500W HIGH PRESSURE
L6	N.1 LAMP 600W HIGH PRESSURE
VT	SKY AIR EXHAUST FAN
V	COOLING COLUMNS OF CANOPY FAN

**SPORTAREDDI spa**  
 Via dell'Industria, 7 30060 GRUPPO (VE)  
 Tel. 0423/767830 - Fax 767635  
 PROPRIETÀ RISERVATA DELLA DITTA SPORTAREDDI  
 È vietato riprodurre o comunicare a terzi  
 il contenuto del presente disegno

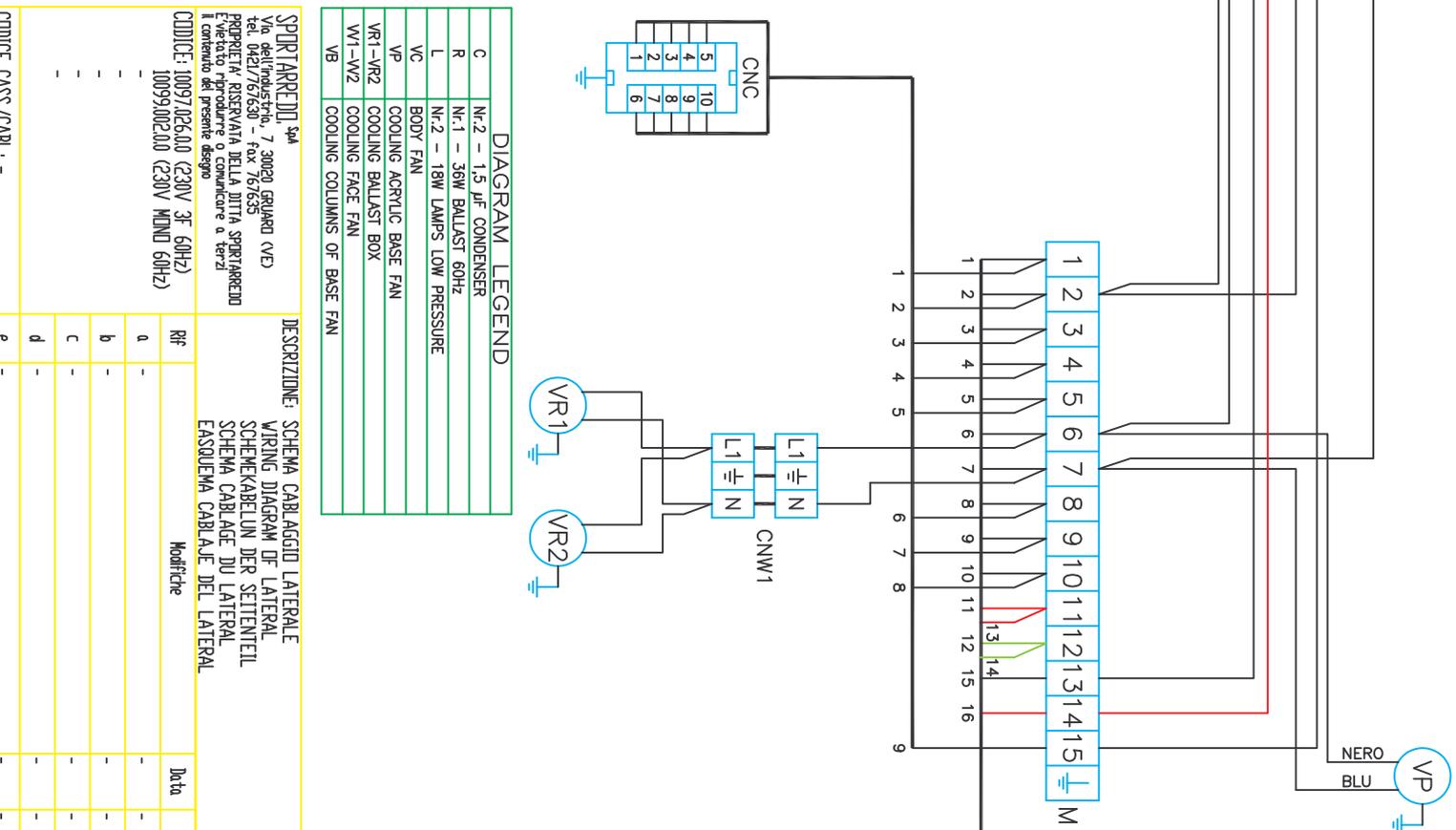
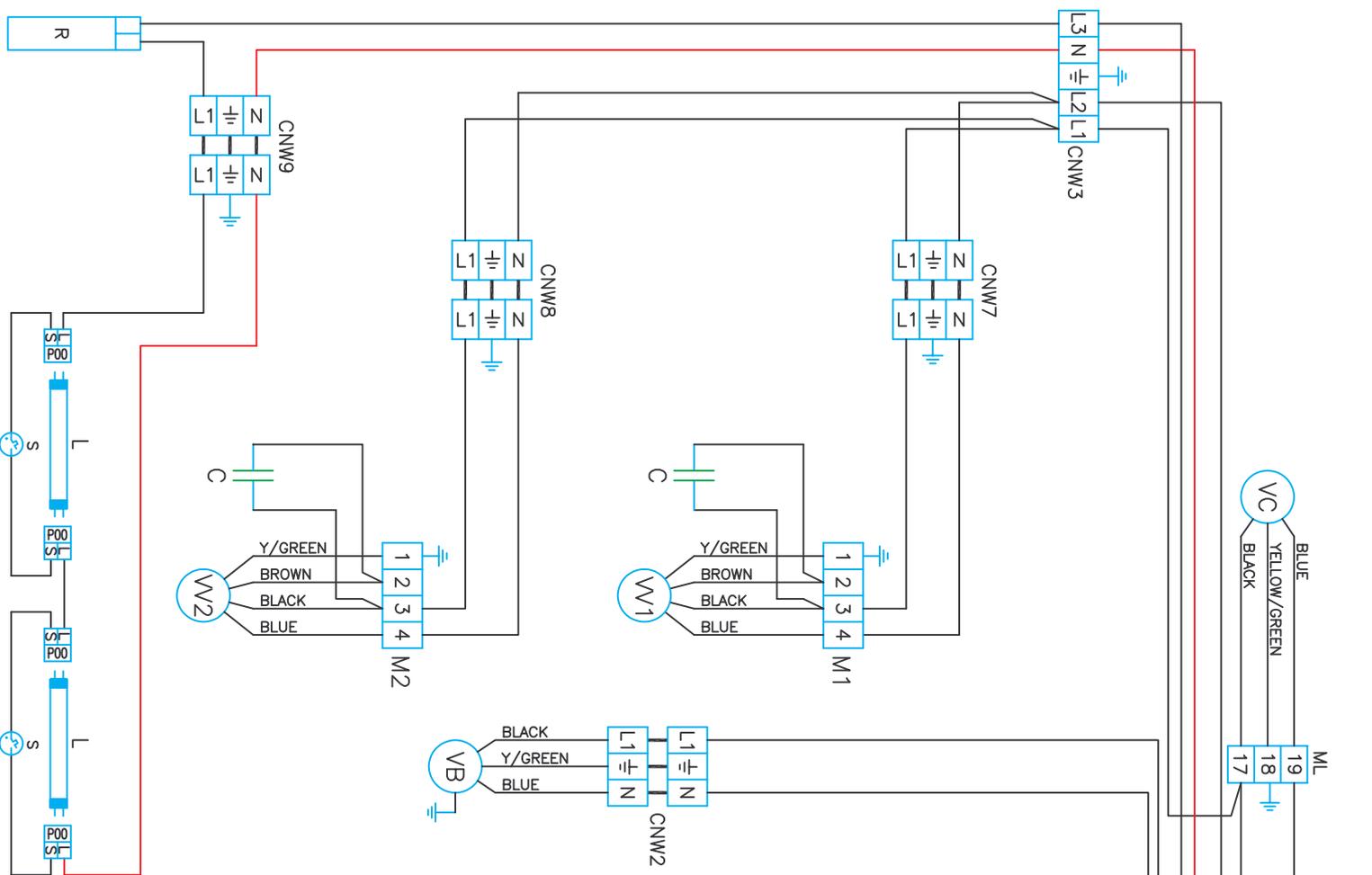
DESCRIZIONE: SCHEMA CABLAGGIO COLONNE N°3-4-5 DELLA TESTA  
 WIRING DIAGRAM FOR COLUMNS N°3-4-5 OF CANOPY  
 SCHEMABELUNGUNG FÜR KÖLNNEN N°3-4-5-DER HIMMEL  
 SCHEMA CABLAGE DES COLONNES N°3-4-5 DU CIEL  
 ESQUEMA CABLAJE DE LAS COLUMNAS N°3-4-5 DE LA CABEZA

Modello: **MASTER SUN 360**  
 Versioni: **USA**

Rif	Modifiche	Data	Firma	Schema: n°	Data:	Dise:	Contr:	File:
a	-	-	-	7/10				
b	-	-	-		29/08/05			
c	-	-	-			A.Colavitti		
d	-	-	-					
e	-	-	-					038_7.usa.dwg

CODICE: 10097.026.00 (230V 3F 60Hz)  
 10099.002.00 (230V MONO 60Hz)

CODICE CASS./CABL.: 17073180.00



**DIAGRAM LEGEND**

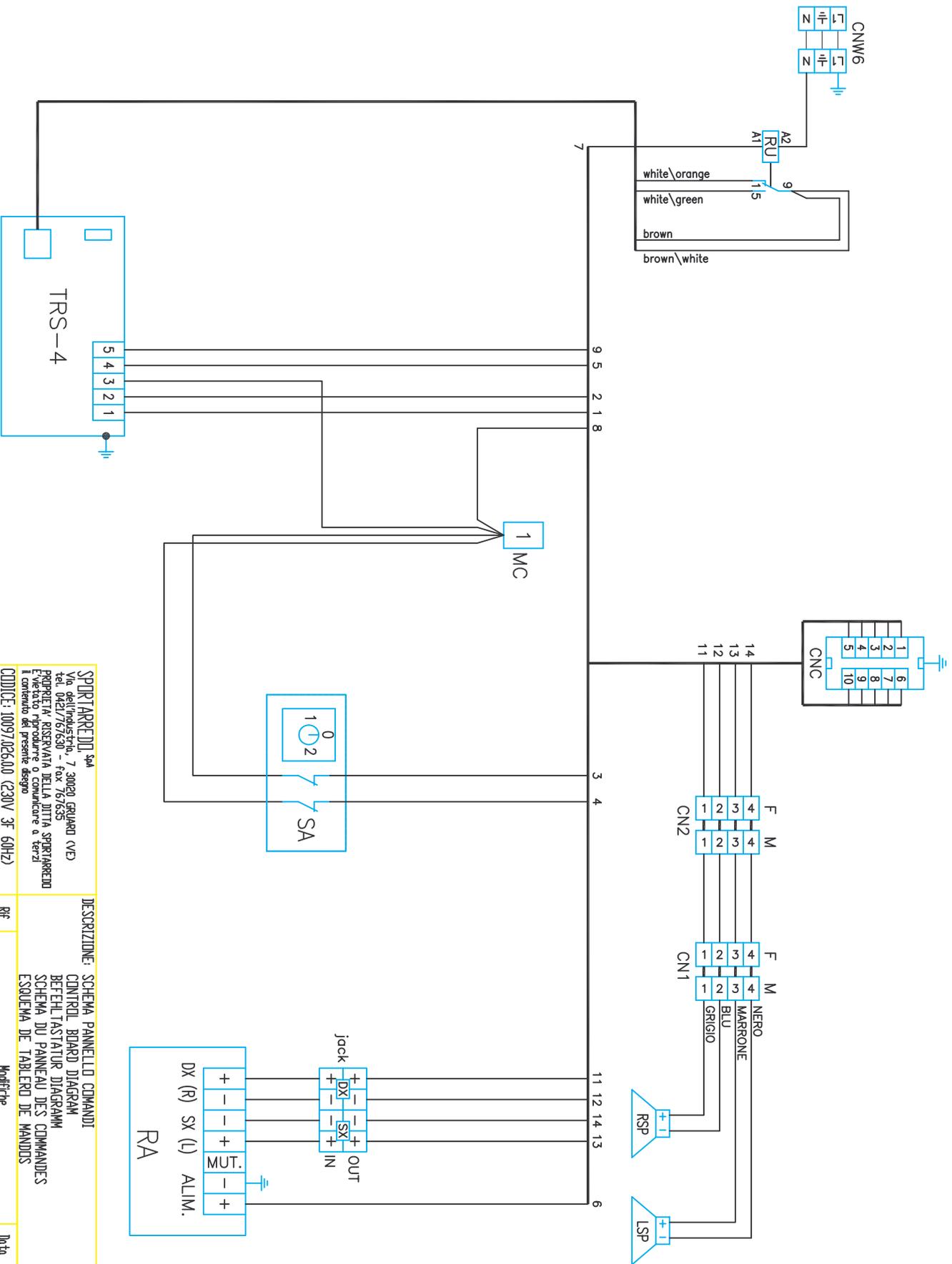
C	Nr.2 - 1,5 μF CONDENSER
R	Nr.1 - 36W BALLAST 60Hz
L	Nr.2 - 18W LAMPS LOW PRESSURE
VP	BODY FAN
VC	COOLING ACRYLIC BASE FAN
VR1-VR2	COOLING BALLAST BOX
V1-W2	COOLING FACE FAN
VB	COOLING COLUMNS OF BASE FAN

**SPORTAREDDI spa**  
 Via dell'Industria, 7 30020 GRUPPO (VE)  
 tel. 041/767531 - fax 767533  
 PROPRIETÀ RISERVATA DELLA DITTA SPORTAREDDI  
 È vietato riprodurre o comunicare a terzi  
 il contenuto del presente disegno

**DESCRIZIONE: SCHEMA CABLAGGIO LATERALE**  
**WIRING DIAGRAM OF LATERAL**  
**SCHEMKA BELUN DER SEITENTIL**  
**SCHEMA CABLAGE DU LATERAL**  
**ESQUEMA CABLAJE DEL LATERAL**

Modello:	MASTER SUN 360
Versione:	USA
Rif.	Modifiche
a	-
b	-
c	-
d	-
e	-
Data	-
Firma	-
Schema n°	8/10
Data	29/08/05
Dise.	A.Colavitti
Contr.	-
File:	038_Busa.dwg

CODICE CASS./CABL. -



SPARTAREDDI s.p.a.  
 Via dell'Industria, 7 30029 GRUPPO (VE)  
 Tel. 0421/767530 - Fax 767635  
 PROPRIETÀ RISERVATA DELLA DITTA SPARTAREDDI  
 È vietato riprodurre o comunicare a terzi  
 il contenuto del presente disegno

CODICE: 10097026400 (230V 3F 60Hz)  
 10099002200 (230V MONO 60Hz)

DESCRIZIONE: SCHEMA PANNELLO COMANDI	
REF	MODIFICHE
a	-
b	-
c	-
d	-
e	-

Modello: **MASTER SUN 360**

Versioni: **USA**

Schema: n° 9/10  
 Data: 29/08/05  
 Dis: A.Colavitti  
 Contr.: -  
 File: 038\_gusa.dwg