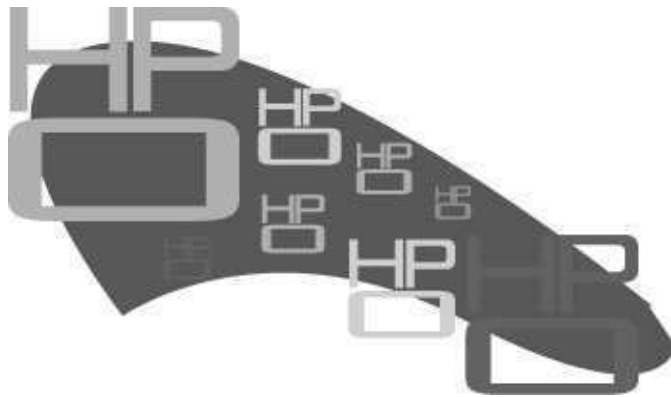


# SPORTARREDO<sup>®</sup> S.p.A.

30020 GRUARO-ITALY - VIA DELL'INDUSTRIA 7  
Tel. 0421/767676 Fax 0421/767670



## INSTALLATION, USE AND MAINTENANCE MANUAL

USA

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1 - GENERAL INFORMATION

1.1 LABELS

This device is intended to be used by only one person at a time. Stand in the middle of booth, with body positioned at equal distance from the surrounding lamps.

**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. **Wear protective eyewear.**

**Eyewear:** SUN GLOBES

Read the instruction booklet before using tanning system.

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.				
Skin Type	Week 1 1st - 3rd Session	Week 2 4th - 6th Session	Week 3 7th-9th Session	Subsequent Weekly Session
II	3 min	7 min	10 min	12 min
III	3 min	7 min	10 min	13 min
IV	3 min	8 min	11 min	14 min
V	3 min	8 min	12 min	15 min

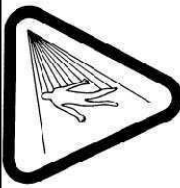
This product is in conformity with performance standards for sunlamp products under No. 21 CFR 1040.20.

This appliance is intended to be used with the following lamps:  
**Kalfasun 630F 600W**  
**Kalfasun 1530F 1500W**

For replacement lamps, eyewear or parts, contact:  
**SPORTARREDO USA INC.**  
**200 South Wacker Drive**  
**CHICAGO, IL 60606**  
**(1-866-899-4826)**

Cod.16986.263.0.0

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 MEDECIN**

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.

Eviter 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.

**CAUTION!**

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

**ATTENTION!**

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

**VALID ONLY FOR CAN/CSA**

Cod. 16986.199.0.0

**DISCONNECT POWER SUPPLY BEFORE OPENING UNIT**

**WARNING!**

**ACHTUNG!**

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

**ATTENTION!**

AVANT D' OUVRIRE D' 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 DÉCONNECTÉ.

Cod. 16986.137.0.0

**WARNING:**

HIGH LEAKAGE CURRENT--ENSURE PROPER GROUNDING.

**AVERTISSEMENT:**

COURANT DE FUITE ELEVE--FOURNIR UNE MISE A LA TERRE EFFICACE

Cod. 16986.138.0.0

## 1 - GENERAL INFORMATION

### 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. Stand in the middle of booth, with body positioned an equal distance from the surrounding lamps.

**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.

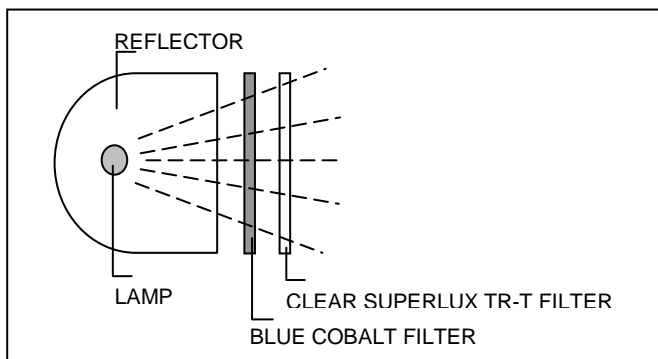
Skin type	Week 1 1st-3rd Session	Week 2 4rd-6rd Session	Week 3 7rd-9rd Session	Subsequent Weekly Session
II	3 min.	7 min.	10 min.	12 min.
III	3 min.	7 min.	10 min.	13 min.
IV	3 min.	8 min.	11 min.	14 min.
V	3 min.	8 min.	12 min.	15 min.

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

Lamp Kalfasun 1530F

Lamp Kalfasun 630F

Blue cobalt filter and clear Superlux TR-T - Ultralux 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 authorised 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 WITH OUT THE FEEDING CABLE**

*To make a power cable connection or voltage-change, make reference to the chapter "INSTALLATION" paragraph " VOLTAGE-CHANGE " and to the HPO n°1/11 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. HPO:

3x70A-30mA to feed 230V - 3phase ~ 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 CAHAPTER 3.1 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:

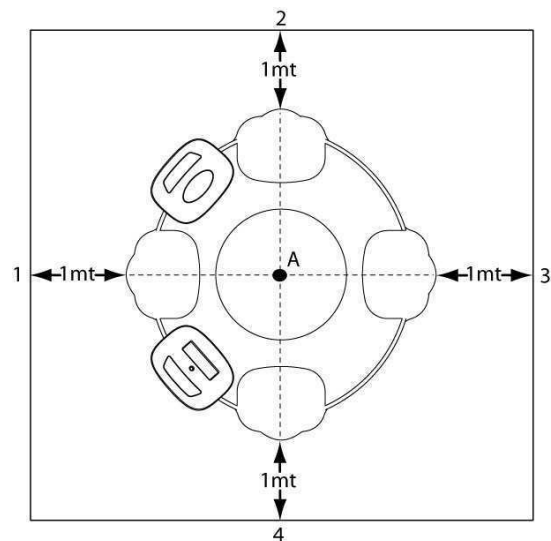
Effective normalized sound power during operation, see diagram below:

**1 - 2 - 3 - 4 = 77 dB (A) max.**

Effective sound pressure with simulation of the actual position of the person being treated:

**A = 79 dB (A) max.**

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



### 2.3 REGULATIONS

**Standards for safety of Luminaires, UL 1598 - 1<sup>st</sup> Ed. & CSA C22.2 No.250.0-00.**

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.**

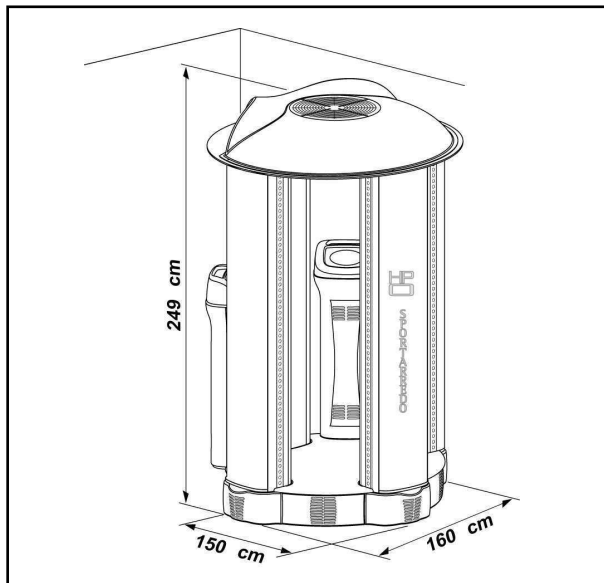
**ECC Directive N.73/23 dated 19.02.73** known as "low voltage directive".

**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



HEIGHT	249 cm	98" in
LENGTH	160 cm	63" in
WIDTH	150 cm	59" in
WEIGHT	560 Kg	1301 lb

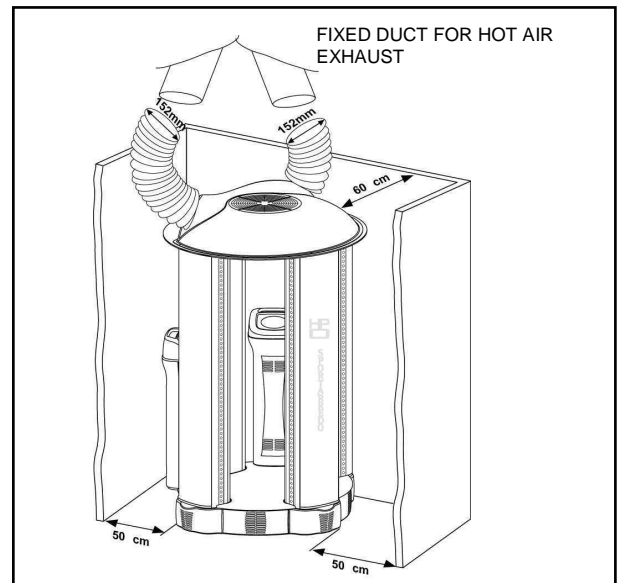
HPO	U.M	DATA
POWER SUPPLY	V	230V 3phase
NOMINAL POWER	KW	21,3
NOMINAL CURRENT	A	54,7
FREQUENCY	Hz	60
WIRE SIZES	AWG	5
NUMBER OF WIRE REQUIRED		4
EXHAUST AIR FLOW	m³/h	2x1060
EXAUST FAN PRESSURE	Pa	0÷200
HEAT PRODUCED	Kcal/h	17500
HEAT EXPELLED	Kcal/h	10500
LAMPS TYPE	N.	5 KALFASUN 1530F 23x KALFASUN 630F
THERMIC PROTECTION 120°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 TABLES AND PHOTOS ENCLOSED

- 1 - Put the ballast cassette (marked with **1-2-3-4**) like shown in Table 1.  
Join the ballast cassette with 6x20 hexagonal screws.  
Insert the four fans in the provided clamps and fix them with 2 screws 4,8x9,5 large head. See Table 1.
- 2 - Insert the column **A** (radio column) and column **B** (control board column) without the cover plastics with 6x20 hexagonal screws like shown in Table 2.  
Connect the following connectors:  
- ① connector with long cable (16-poles male from **B** column) with connector ① (16-poles female in to **A** column).  
- Under the column **1**: connector ② (3-poles black from **A** column) with connector ② (3-poles black from **B** column).  
- From **A** column (radio) to **1** column connect the red-black plug.  
- From **A** column (radio) to **B** column (control board) connect white connectors.  
- From **A** column (radio) spiral connector ③ (16-poles) to ballast cassette nr.4.  
- From **A** column (radio) connector ④ (16-poles) to ballast cassette nr.3.  
- From **B** column (control board) spiral connector ⑤ (16-poles) to ballast cassette nr.1.  
  
- From **B** column (control board) connector ⑥ (16-poles) to ballasts cassette nr.2.  
The cables of connectors were inserted in the specific clamps with the rubber cable-passage. See photos 1-2.
- 3 - Put the lamps columns without acrylics with 4 screws 6x20 hexagonal head without tighten. The columns are marked with **1-2-3-4** following the indications reported on the Table 2.  
- **1** face column.  
- **2-4** interchangeable column of which one with silkscreen printing HPO.  
- **3** column with silkscreen printing HPO.  
Connect the black fans connectors 5-poles and the 16-poles connectors to the columns.  
Insert the internal acrylics and fix in up side with the screws to rapid release. See Table 8.
- 4 - Put the white teflon circle and fix it without tighten in every columns with screws 6x20 to hexagonal head and with an teflon washer. See Table 3.
- 5 - Install the fans upper section following the number indications (**1-2-3-4**) and fix it in every columns with 2 screws 6x20 hexagonal head. See Table 3.  
Connect the following connectors:  
- Black connector 7-polig from face column 1 to canopy;  
- Connecting the loudspeakers.

- 6 - Insert the handle in the specific hole in the canopy teflon and fix it using a metallic bracket. See Table 4.
- 7 - Centre the teflon circle and stop it with an 6x20 screw in every columns. Tighten afterwards all the columns screws.
- 8 - Connect the feeding cable to **B** column. See photos 3- 4.
- 9 - Insert the grey foot-board and fix them with the central 6x20 hexagonal screw.
- 10 - Insert the external acrylics and fix in up side panel with the screws to rapid release. See Table 8.  
Install the plastic cover columns **A** (radio) and **B** (control board) and canopy fixing it with the 3,9x9,5 and 3,9x19 screws. See Table 5.  
Install the plastic cover of canopy with 4 black screws 6x20 TCEI.
- 11 - Install the plastic covers on the base with 4x20 screws and 4x12 washer. Apply the remaining covers with the magnetic closing. See Table 6.
- 12 - Insert the pink gel foot-board.

#### 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.



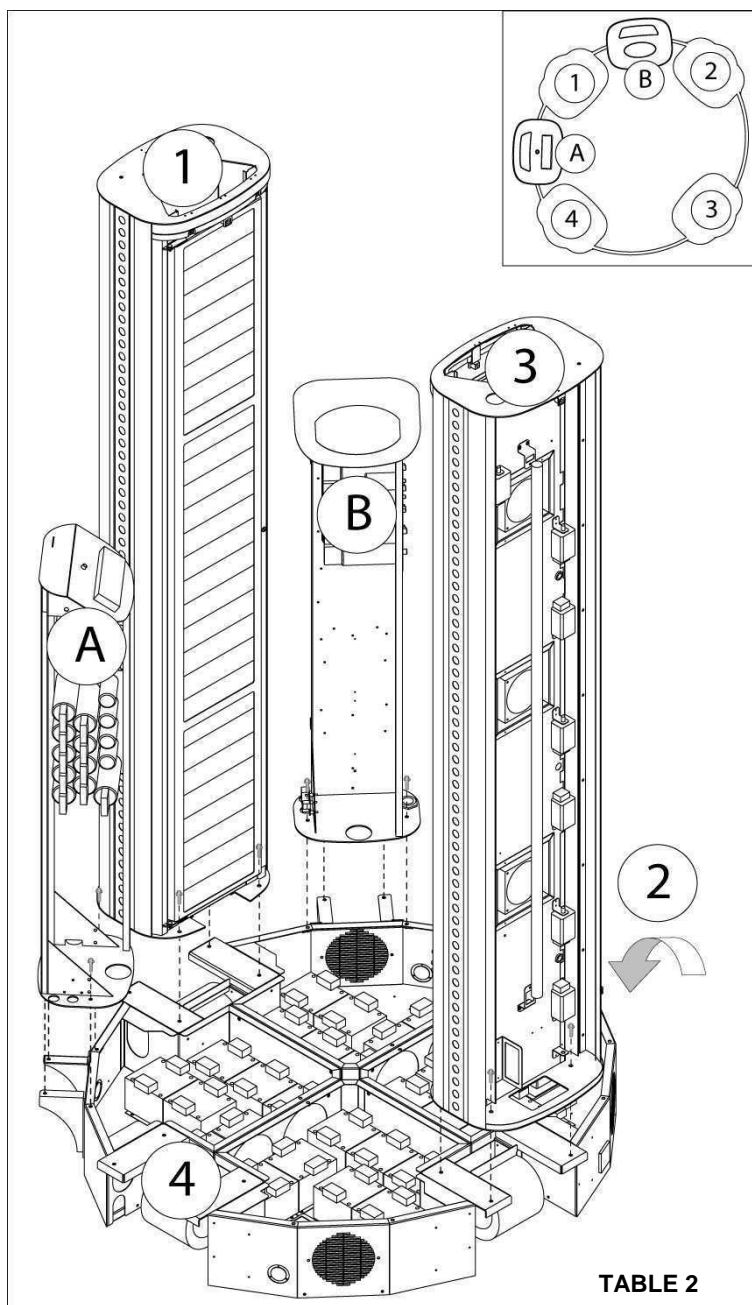
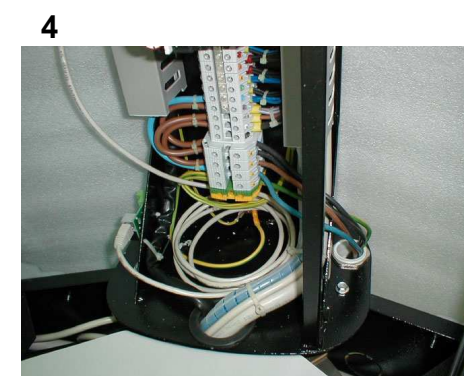
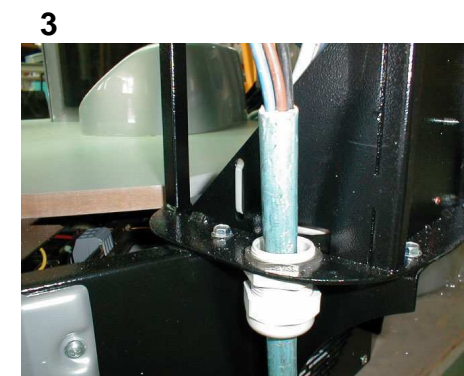
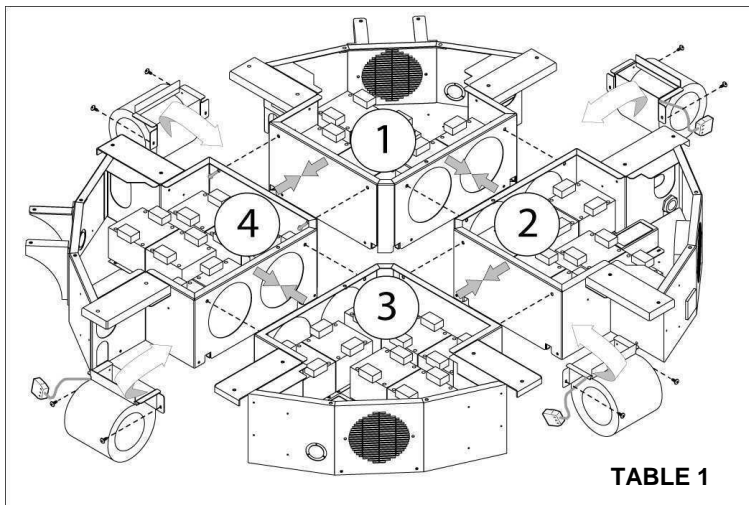


TABLE 3

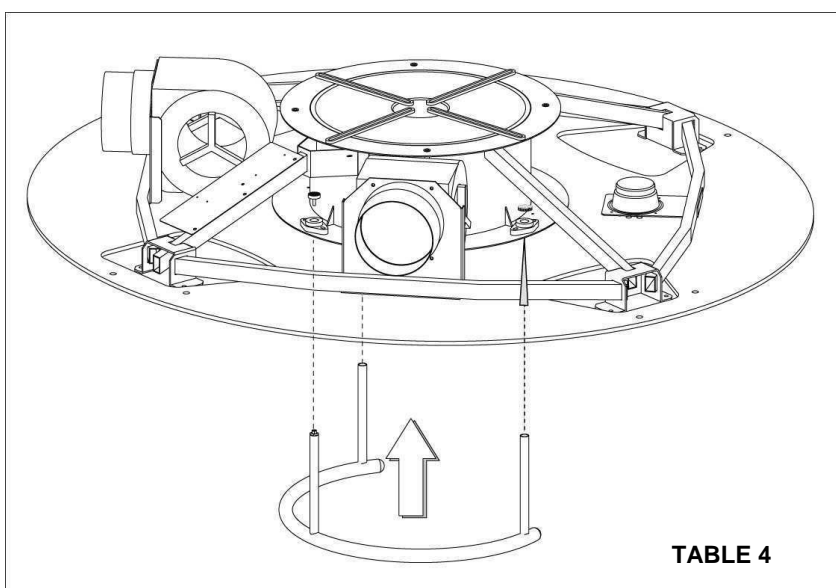
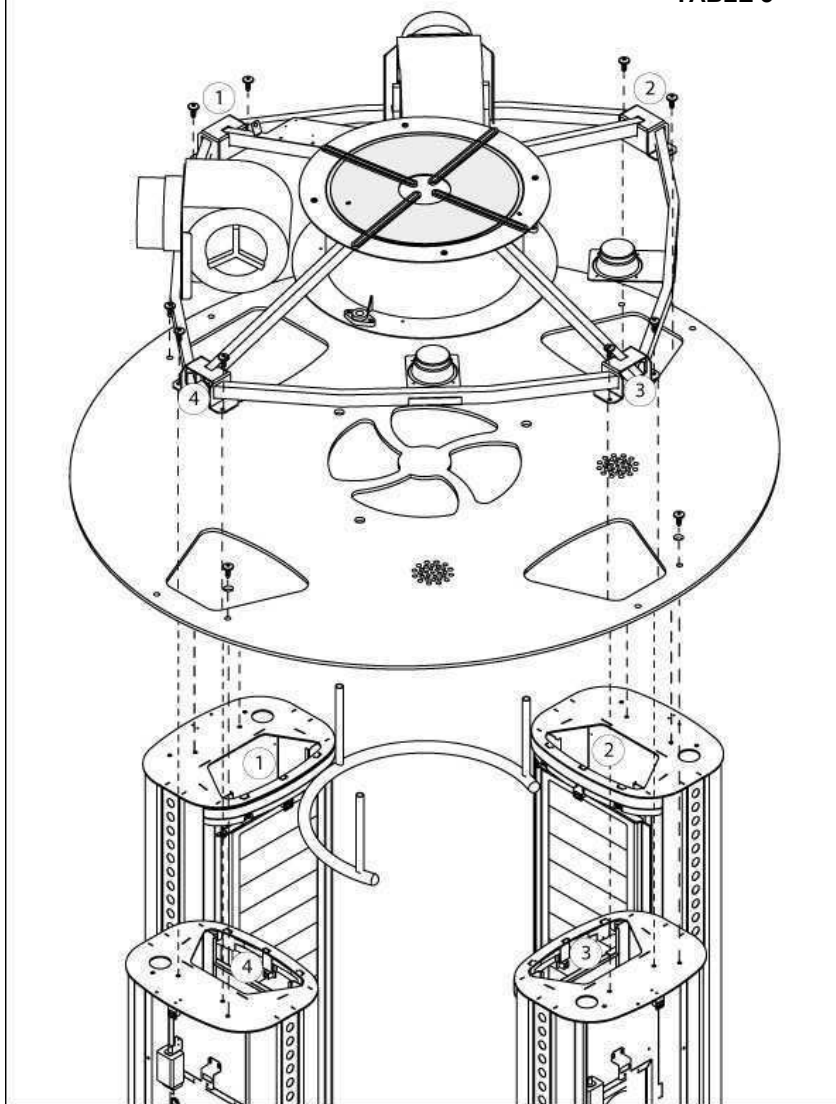


TABLE 4

TABLE 5

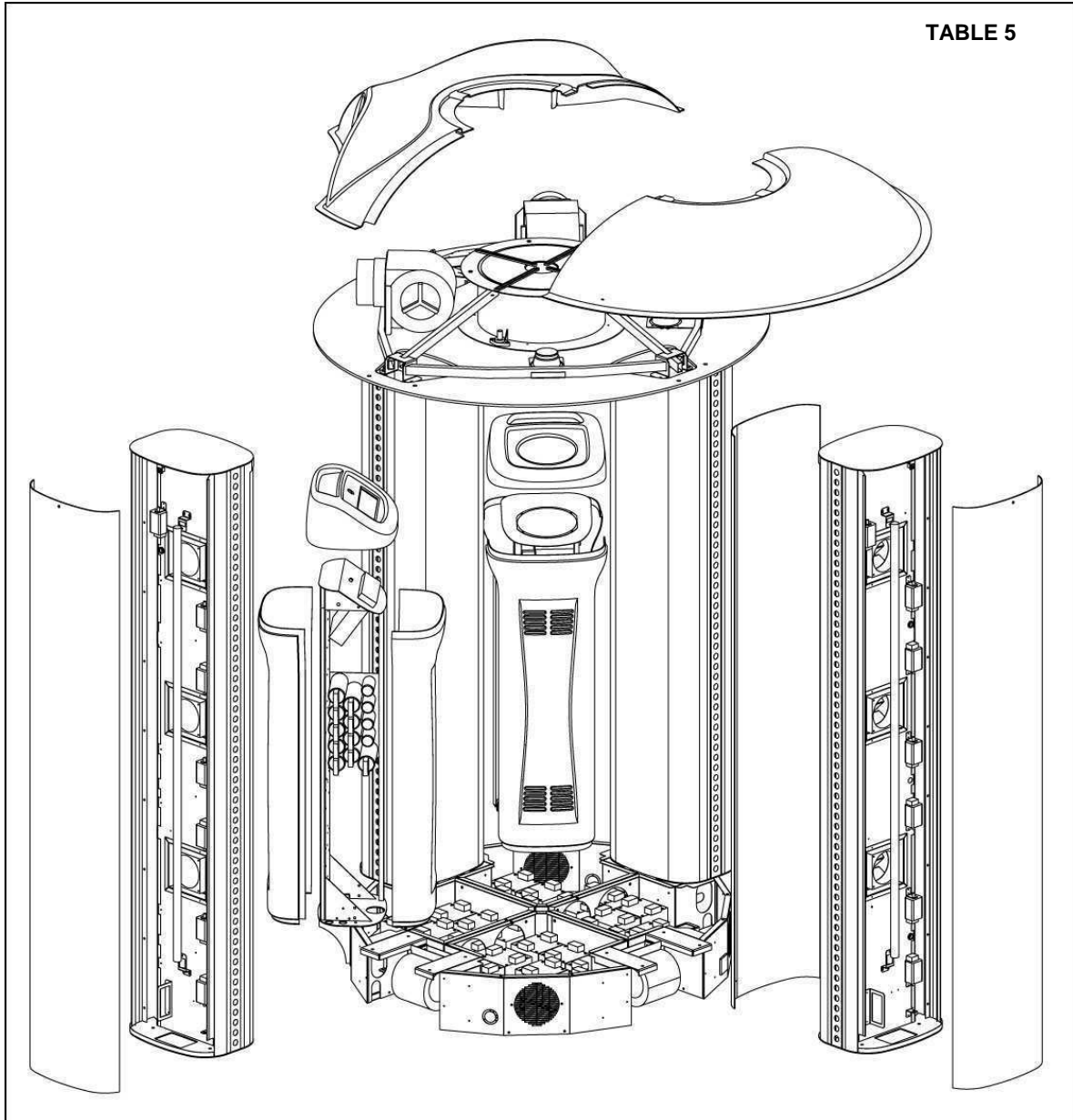
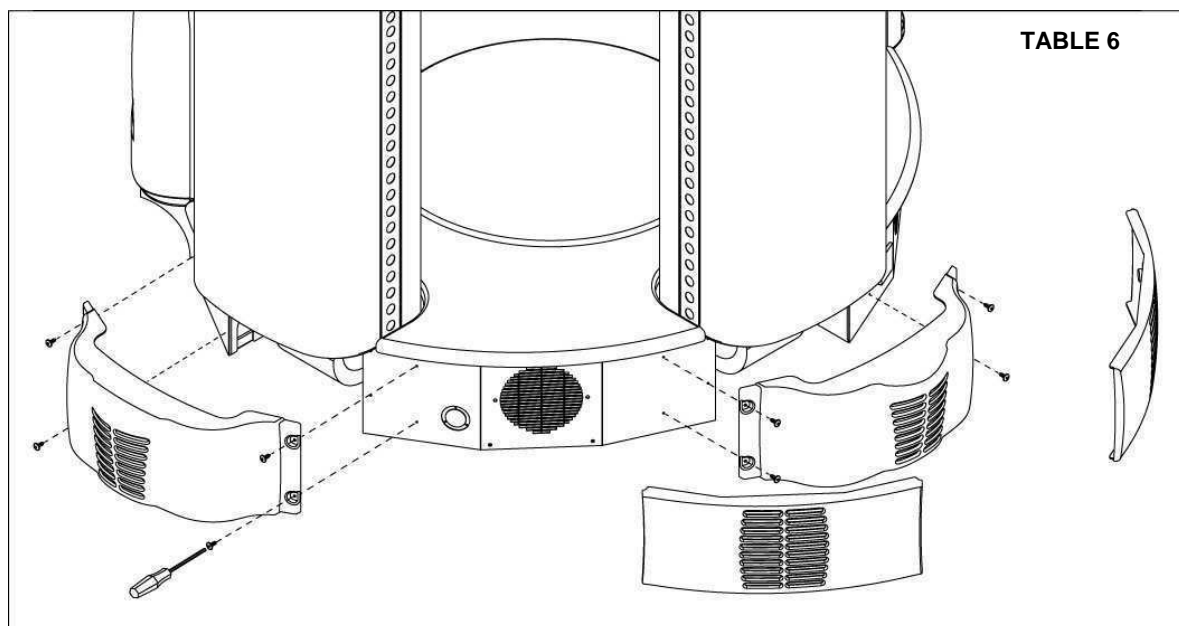


TABLE 6

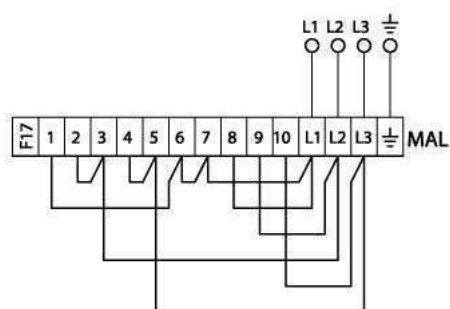
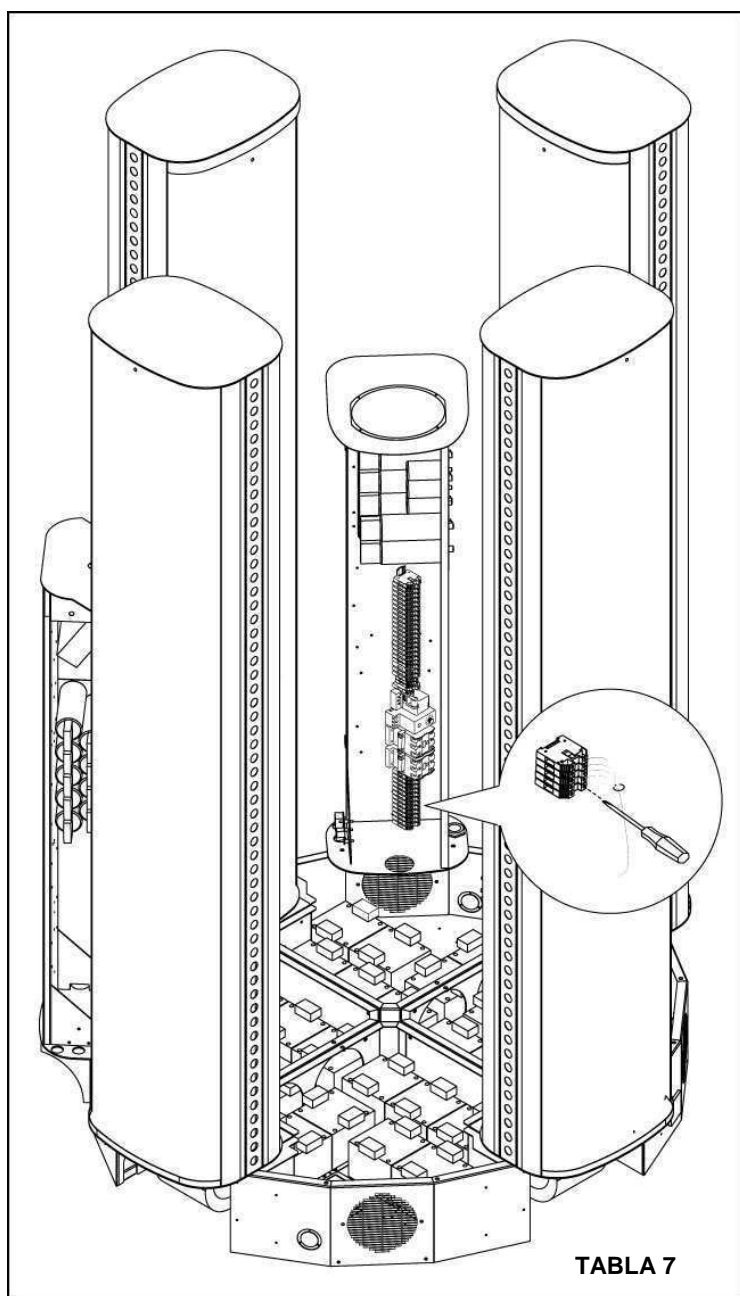


#### 4.4 VOLTAGE CHANGE

To enter the terminal board for power supply, placed inside the column control board B, make reference to photo 3-4 and table 7.

**IMPORTANT !**

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

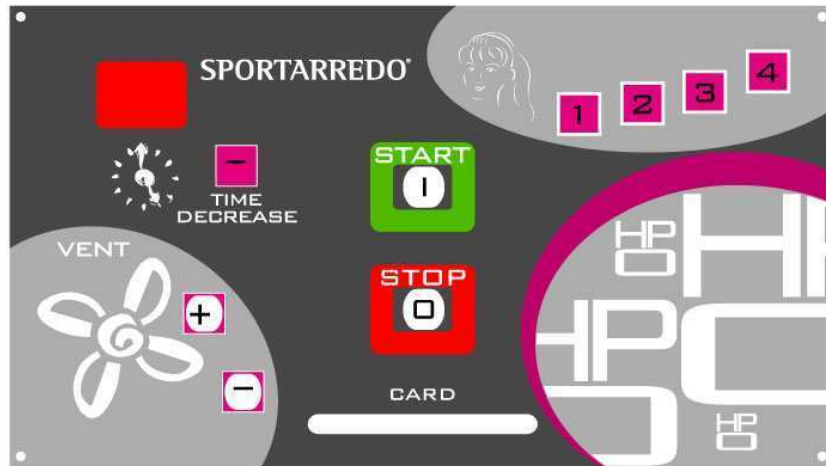


**V = 230V 3F~ 60Hz**



## 5 - USE

## 5.1 CONTROL BOARD



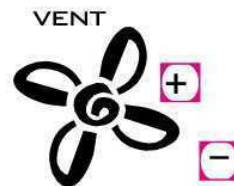
Pushing this button you start the tanning session.



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



The time button is used to decrease the duration of the session after the unit has been turned on. At each pressure of the button there's a decrease of 1 minute.



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



Pre-defined buttons for the choice of session time.

**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 solarium is equipped with vocal message that can be disconnected by the customer by pressing the Start key again during the session time.

**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 HOW TO GUARANTEE THE 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.

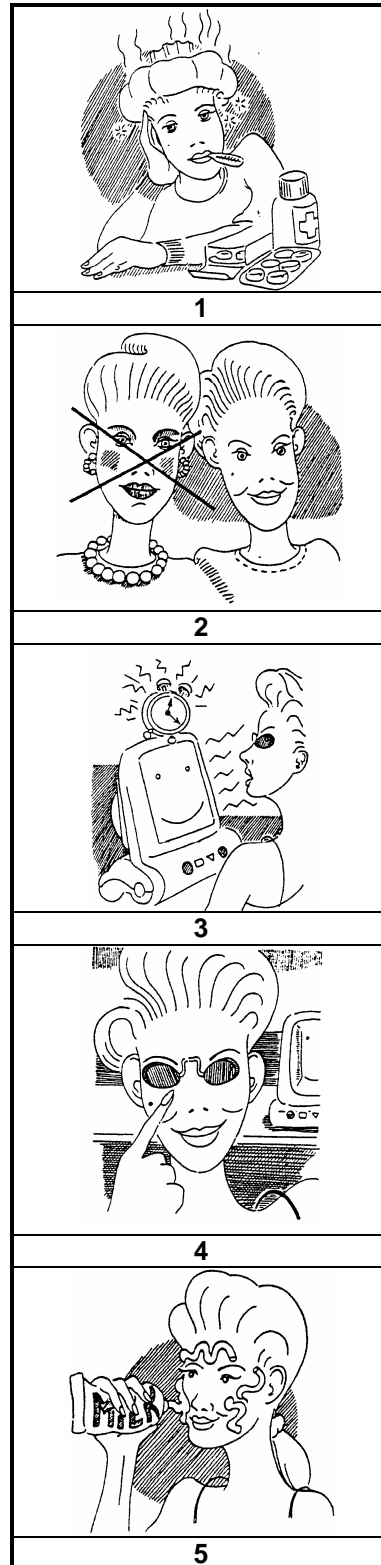
It's advisable to:

- 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** 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.

### MODIFY CHOICE LANGUAGE OF THE MESSAGES

To modify the parameters **Li-CHOICE LANGUAGE OF THE MESSAGES** 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 **Li** function to be modified.

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

Press **Start** key and with ventilation keys **+** or **-** choose one of the 6 languages:

01=Italiano

02=English

03=Español

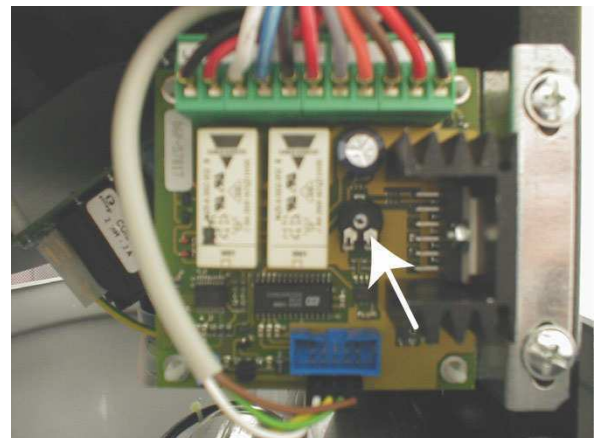
04-05-06=free

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

When exiting, P4 is displayed.

### VOLUME REGULATION FOR A VOCAL CONTROL

To adjust the volume of vocal control remove the plastic cover of the control board column and with a screwdriver operate on the potentiometer as shown in photo.





## 6 - ORDINARY MAINTENANCE MADE BY THE CUSTOMER

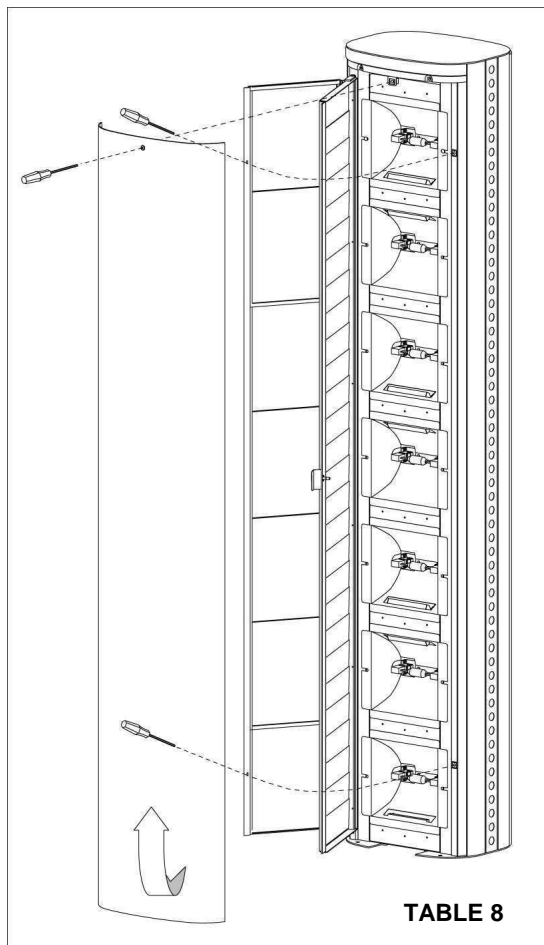
### 6.1 ORDINARY MAINTENANCE

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

**IMPORTANT!**  
USE ONLY THE DISINFECTANT CLEANSING MULTYSAN TO CLEAN THE ACRYLIC AND FOOT-BOARD  
N.B. DO NOT USE ALCOHOL OR ALCOHOL-BASED PRODUCTS FOR CLEANING

#### REMOVING AND CLEANING THE ACRYLIC PANEL AND BLUE COBALT FILTER

To make the cleaning of the acrylic and the columns cobalt filters it's necessary to make as follows on Table 8.



#### 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.

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 250x75mm

Filter Ultralux 26x24

Filter Superlux TR-T 24x21

#### REFLECTORS USED IN THIS APPLIANCE:

KF630 L- HPO1530T L

#### PL PILOT LAMP FOR ROUTINE MAINTENANCE

Every 100 hours of operation the letters PL appear on the appliance display alternating with the session time. 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** 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.

## 7 - EXTRAORDINARY MAINTENANCE MADE BY A SKILLED TECHNICIAN

### 7.1 EXTRAORDINARY MAINTENANCE

#### SL PILOT LAMP FOR SPECIAL MAINTENANCE

Every 400 hours of operation the letters SL appear on the appliance display alternating with the session time. This means that the following extraordinary maintenance operations should be carried out:

- Cleaning of internal and external acrylics.
- Replacement of high-pressure lamps.
- Check that the timer system is working correctly.
- Check that the USE instructions are legible and in satisfactory condition.
- Every 800 working hours replace the reflectors, 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** 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**  
**MULTYSAN TO CLEAN THE ACRYLIC AND FOOT-**  
**BOARD**  
**N.B. DO NOT USE ALCOHOL OR ALCOHOL-BASED**  
**PRODUCTS FOR CLEANING**

#### CHECK OF THE BLUE COBALT FILTER

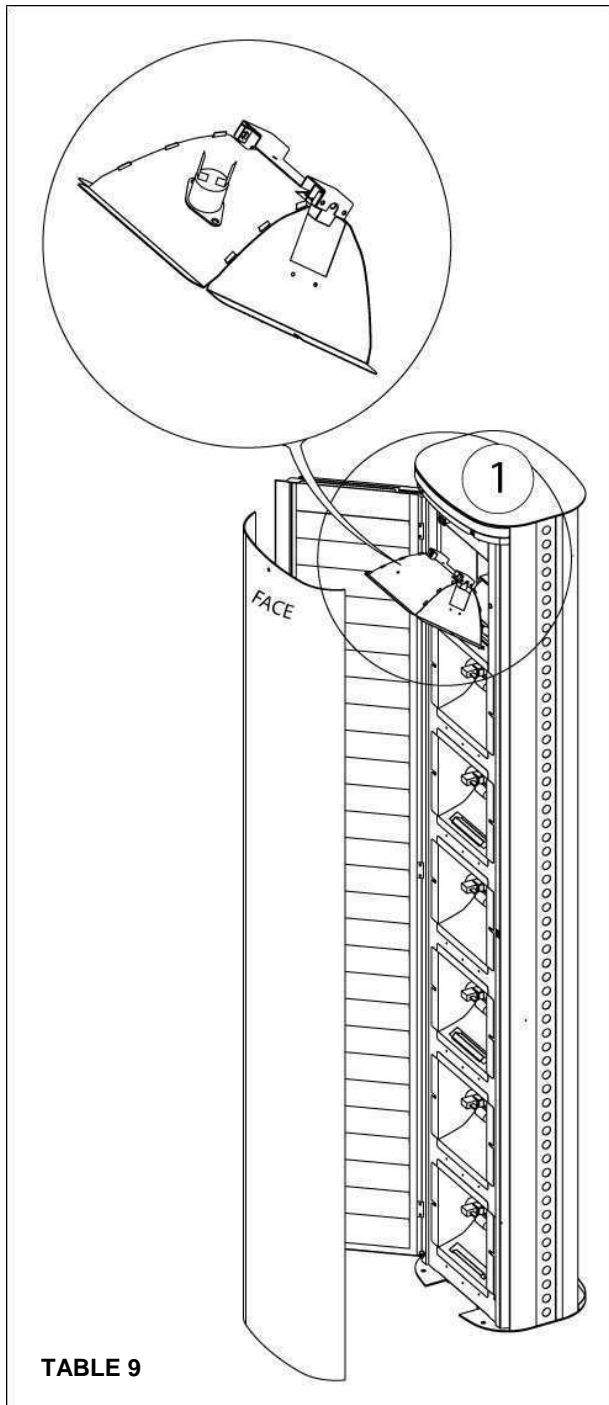
To prevent the exposition to bad rays it's important to check the good conditions of the blue cobalt filters and the fixing condition to the metallic frame. If breaks or cracks are present do not use the equipment and call for a skilled technician maintenance.

#### CLEANING THE BLUE COBALT FILTERS

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

**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.**

## THERMAL PROTECTION REFITTING



## INSTRUCTIONS FOR THERMAL PROTECTION REFITTING

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

The unit is fitted with a protection from the heat that acts when the security temperature exceeds.  
The protection from the heat is placed on the first reflector in to face column (see Table 9). In case of over-heating the protection acts switching off the lamps.

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.

**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 sized or that the suction filters are not blocked. Inform the specialised technician of the problem.

## 8 - CONTROL BOARD PROGRAMMING

## 8.1 PROGRAMMING

Functions	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
Priority external start	SE	On-OFF	On
Relay control on CBR/4	Cb	0-3	0
** 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
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-HOW TO USE.**

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

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, 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, 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, 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, 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.

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 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 **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.

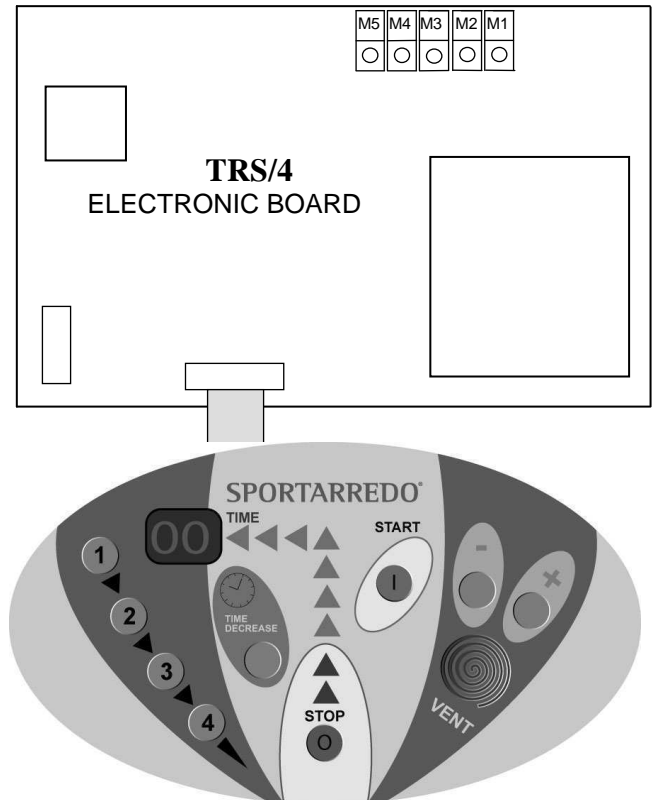
If the start key is pressed again, the display again shows the data indicated in position 1.

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.**

## 8.3 REMOTE CONTROLS

The T Max black connector ( 3 poles) input is located at the base of control board column B.

## 9 - TROUBLESHOOTING AND RAPID DIAGNOSTICS

### 9.1 TROUBLESHOOTING AND RAPID DIAGNOSTICS

- **The solarium does not switch on when START is pressed.**
  - 1 - Check the position of the lever on the braker.
  - 2 - Check that the power supply terminal board MAL is in correct connection to the power supply.  
See "HPO\_\_2/11" circuit diagram.
  - 3 - Check the fuses on the timer board ("TRS/4").
  - 4 - Check the voltage ( 230V ) across terminals 1 and 2 on the timer board " TRS/4".  
See "HPO\_\_3/11" circuit diagram.
  - 5 - The lamps switch off and the control board is on. Otherwise, with the equipment in stand-by, the lamps do not come on when pressing start and the thermal protection comes into operation. Check that all the fans and hot air extractor fan work properly. (See chapter 7 "Extraordinary maintenance made by a skilled technician").
- **When START is pressed the ventilation system only is switched on.**
  - 1 - Check that remote control switches "HRV" operate correctly.  
See "HPO\_\_2/11-3/11" circuit diagram.
  - 2 - Check the voltage (230V) across terminals 2 and 4 of the timer board " TRS/4".  
See "HPO\_\_3/11" circuit diagram.
- **When START is pressed only the lamps switch on (no ventilation).**
  - 1 - Check the voltage ( 230V ) across terminals 2 and 3 of the timer board " TRS/4".  
See "HPO\_\_3/11" circuit diagram.
- **Body cooling system inoperative or cannot be regulated.**
  - 1 - Check the voltage ( variable up to a maximum of 230V ) across L1 and N of the connector "CNW2".  
See "HPO\_\_11/11" circuit diagram.
  - 2 - Check the fuses on the Electronic board TRS/4.  
See "HPO\_\_3/11" circuit diagram.
- **One of the high-pressure does not switch on.**
  - 1 - Check for voltage on the wiring to the lamp.
  - 2 - Check the ballast or the ignition for the lamp.
  - 3 - Check the fuses (F1÷F15) on the control board column.  
See "HPO\_\_2/11" circuit diagram.
- **The radio does not work.**
  - 1 - Check the fuses on the electronic board "AL12"
  - 2 - Check that the output of the power supply module "AL12" carries 12V DC.
  - 3 - The plugging in of jack plug of the earphones, excludes the loudspeaker functioning.  
See "HPO\_\_4/11" 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	5	4028.4400.03	ZRM12 ES B IGNITOR
2	23	4028.4400.04	ZRM6 ES B IGNITOR
3	2	4028.1002.06	MEC 58W BALLAST
4	1	4028.1003.04	12V FEEDER U
5	5	16973.000.1.0	MYSUN 1400W BALLAST
6	23	16973.000.0.0	MYSUN 600W BALLAST
7	2	4027.3030.04	LOUDSPEAKER
8	1	4027.3028.01	ANTENNA
9	4	4028.4310.00	2.5µF CONDENSER
10	12	4028.4304.00	20µF CONDENSER
11	1	4028.4307.03	5µF CONDENSER
12	16	4028.4300.00	65µF CONDENSER
13	1	4028.6000.01	REVALCO HOUR-COUNTER
14	1	4028.2100.10	FANTINI&COSMI HR 46 CONTACTOR
15	1	4028.2100.04	FANTINI&COSMI HR 1710 CONTACTOR
16	1	4028.2100.06	FANTINI&COSMI HR 2510 CONTACTOR
17	112	16976.000.0.0	COBALT FILTER 250X75
18	3	16976.058.0.0	FILTER ULTRALUX 26x24
19	3	16976.003.0.0	FILTER SUPERLUX TR-T 24x21
20	5	4028.4002.01	KALFASUN 1530F LAMP
21	23	4028.4002.00	KALFASUN 630F LAMP
22	2	4028.4013.12	58W LAMP
23	1	15920.067.0.0	HANDLE
24	5	14073.049.0.0	HPO1530T L REFLECTOR
25	23	14073.048.0.0	KF630 L REFLECTOR
26	1	16916.080.0.0	FOOTBOARD RIGHT
27	1	16916.078.0.0	GEL FOOTBOARD
28	1	16916.079.0.0	FOOTBOARD LEFT
29	4	16916.081.0.0	ACRYLIC
30	4	16916.082.0.0	ACRYLIC WITH SILKSCREEN PRINTING HPO
31	1	16916.083.1.0	ACRYLIC OF CANOPY
32	1	4027.3025.04	RADIO/CD
33	1	4028.4502.03	T.MAX RELAY
34	1	15906.026.0.0	ELECTRONIC BOARD FOR PANEL JACK
35	1	14003.090.0.0	TRS/4 CONTROL BOARD (COMPLETE)
36	1	15906.034.0.0	VOCAL MESSAGES ELECTRONIC BOARD
37	1	15906.044.0.0	KEYBOARD
38	1	4028.2116.04	TIMER OMRON
39	1	4028.2140.02	THERMIC RS
40	1	4028.0033.00	EBM A4E400-AA06-02 FAN
41	5	4028.0021.00	EBM W2S/ 130 AA0301 FAN
42	4	4028.0050.00	EBM 2GDS15 120X126L FAN
43	2	4028.0049.00	EBM D2E 146-HT 67-01 FAN
44	9	4028.0029.04	EBM 4650N FAN
45	4	4026.1010.04	LIMIT SWITCH
46	1	4028.2102.00	TIMER DELAYED IT60D
47	4	16946.383.0.0	LOWER PLASTIC COVER FOR COLUMN
48	4	16946.384.0.0	FAN PLASTIC COVER
49	2	16946.385.0.0	REAR PLASTIC COVER FOR COLUMN
50	2	16946.386.0.0	FRONT PLASTIC COVER FOR COLUMN
51	1	16946.387.0.0	PLASTIC COVER FOR CONTROL BOARD
52	1	16946.388.0.0	PLASTIC COVER FOR RADIO
53	1	16946.389.0.0	FRONT PLASTIC COVER FOR CANOPY
54	1	16946.333.0.0	REAR PLASTIC COVER FOR CANOPY

## 11.2 CIRCUIT DIAGRAMS LEGEND

SIMBOLS	DESCRIPTION
	Earth terminal
A1-A5 16973.000.1.0	Ballast for KALFASUN 1530F lamps
AN 4028.1002.06	Ballast for 56W lamp
AC1÷AC7 4028.4400.04	Igniter for KALFASUN 630F facial lamps
AC1-AC5 4028.4400.03	Igniter for KALFASUN 1530F facial lamps
A1÷A7 16973.000.0.0	Ballast for KALFASUN 630F lamps
AL12 4028.4400.03	Power supply circuit board for 12Vdc radio
C1÷C4 C6÷C10 4028.4300.00	65µF condenser
C2÷C5 C11÷C14 4028.4304.00	20µF condenser
CNC	16-poles connector
CNR1-2-3	16-poles connector
CNRV CNGV CNG1-2-3	16-poles connector
CNW1-3	3-poles black connector
CNW2	5-poles black connector
CN4M CN4F	4-poles white connector
CN8M CN8F	8-poles white connector
CO 4028.6000.01	Hour counter
F17 4028.3125.06	Fuse 6,3A control board column (illumination lamps and radio/CD power)
F1÷F16 4028.3127.07	Fuse 15A control board column (UV lamps)
F1 4028.3126.12	Fuse 2,5A T radio column (power vocal control board)
HR2 4028.2100.06	Contactor HR2510 for high pressure lamps
HR1 4028.2100.10	Contactor HR46 for high pressure lamps
HRV 4028.2100.04	Contactor HR1710 for ventilation lamps
L1-L5 4028.4002.01	KALFASUN 1530F lamps
L1÷L7 4028.4002.00	KALFASUN 630F lamps
M1	19 poles terminal board
M	Terminal board
MAL	Power supply terminal board
N 4028.4013.12	56W lamp
L1-L2-L3	Power supply phases
RA 4027.3025.04	Radio/CD
RSP-LSP 4027.3030.04	Loudspeakers left
RU 4028.4502.07	Relay for remote control T.Max
SVC1 15906.034.0.0	Circuit board for vocal messages
SW 4026.1010.04	Limit switch

Scheda jack 15906.026.0.0	Circuit board for Jack
T 4028.2116.04	Timer
TE 4028.2140.02	Thermic protection 120°
TRS/4 14003.090.0.0	Control board (complete)
VC 4028.0033.00	Body fan
VR 4028.0050.00	Cooling fan for ballasts cassette
VL1÷VL3 4028.0021.00	Cooling fans for face column lamps
VL1÷VL3 4028.0029.04	Cooling fans for column lamps
VP 4028.0021.00	Cooling fans for column lamps
VE1-VE2 4028.049.00	Air exhaust fan

## DESCRIPTION CIRCUIT DIAGRAMS

- 1/11 Voltage-change diagram.  
 2/11 Practical diagram of column control board (power).  
 3/11 Practical diagram of column control board (control).  
 4/11 Practical diagram of radio column.  
 5/11 Practical diagram of face ballasts box nr.1.  
 6/11 Diagram ballasts box nr.2.  
 7/11 Diagram ballasts box nr.3.  
 8/11 Diagram ballasts box nr.4.  
 9/11 Diagram of face column.  
 10/11 Diagram of columns.  
 11/11 Diagram fan cap.

## 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.

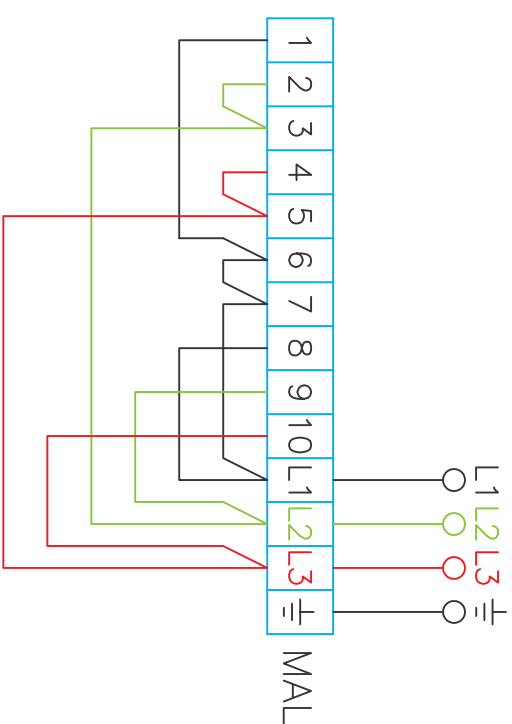
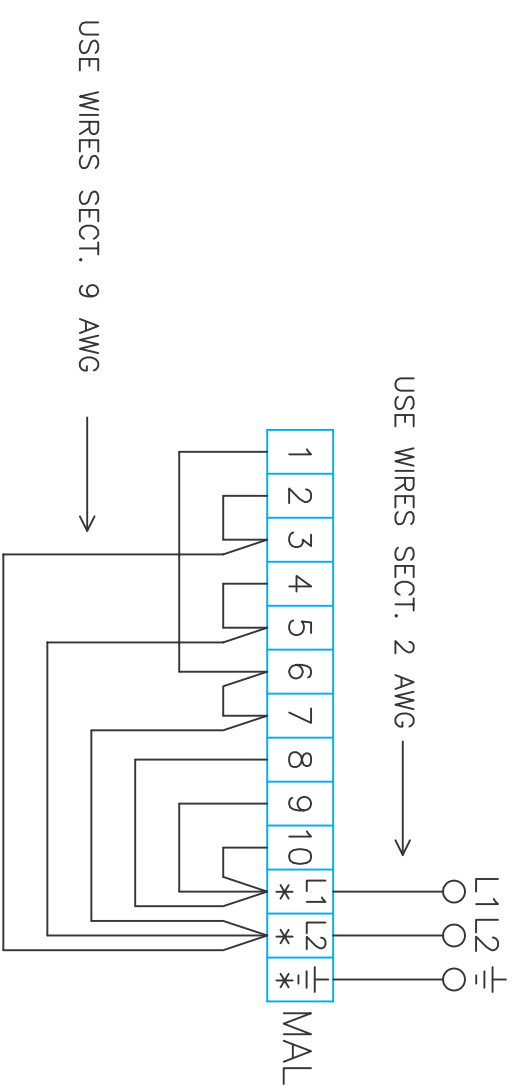
Dr. Richard Childers and Dr. Edward Emmett of Jhon Hopkins University compiled a list of drugs, foods, and other substances that could make your skin sensitive to ultraviolet light: This list is presented below:

- 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.



V = 230V MONO 60HZ      V = 230V 3F~ 60HZ

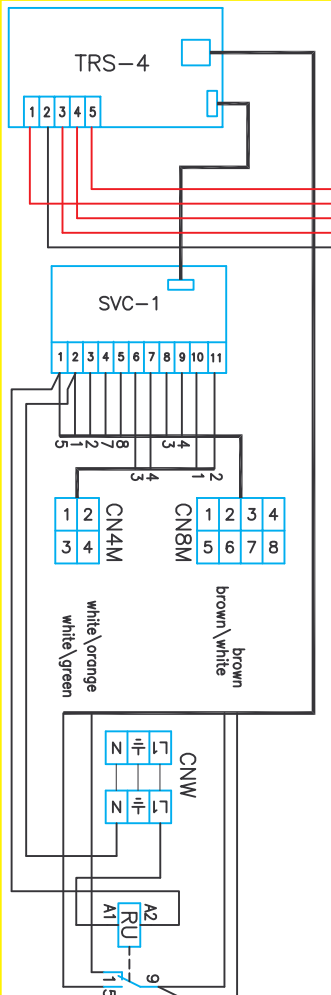
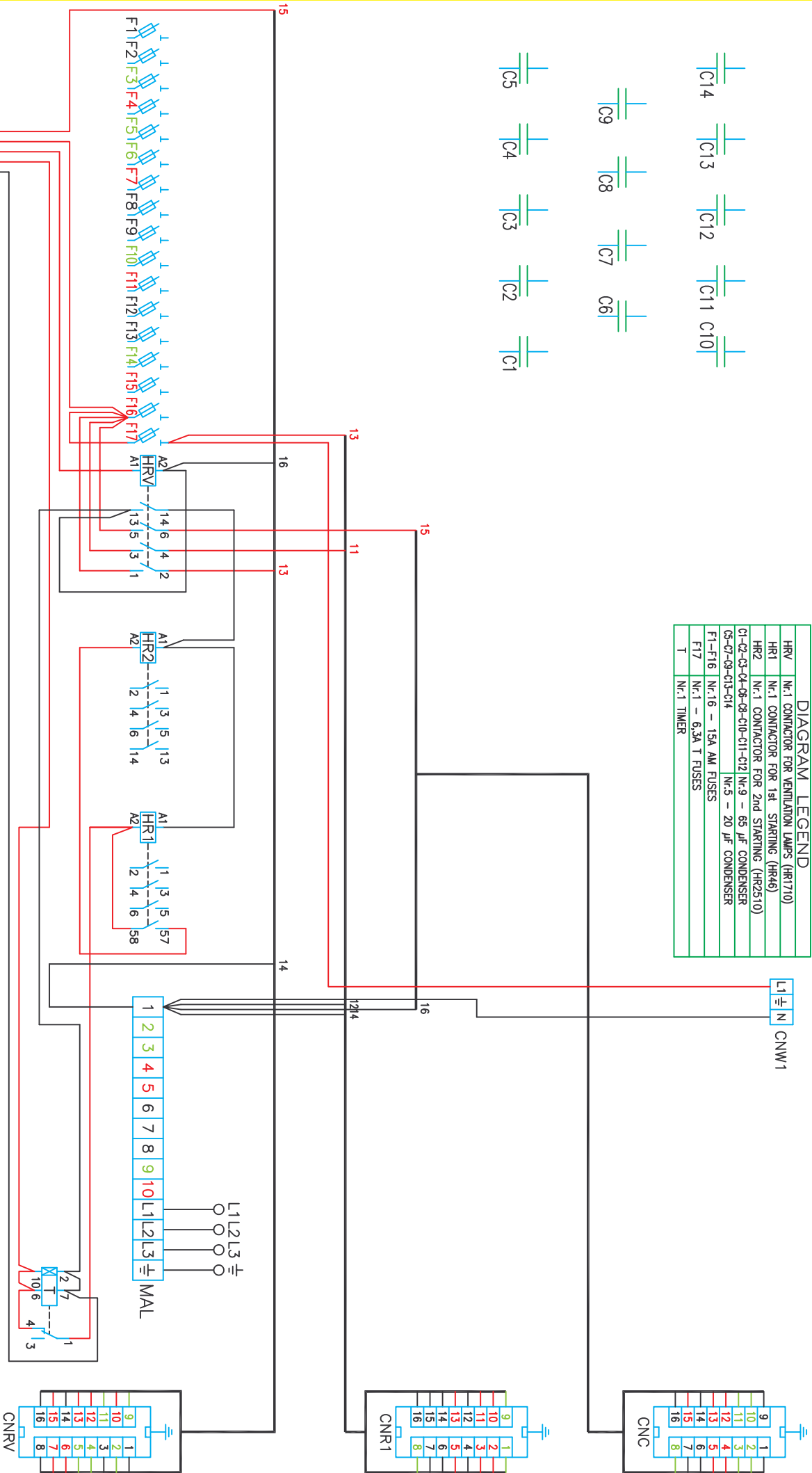
\* REPLACE TERMINALS INDICATED  
WITH 125amps TERMINALS

SPORTAREDDI spa Via dell'Industria, 7 30020 GRUARO (VE) tel. 0423/767630 - fax 767635 PROPRIETÀ RISERVATA DELLA DITTA SPORTAREDDI È vietato riprodurre o comunicare a terzi il contenuto del presente disegno		DESCRIZIONE: VOLTAGE-CHANGE DIAGRAM DIAGRAM FÜR SPANNUNGSÄNDERUNG SCHEMA CAMBIO TENSIONE SCHEMA CHANGE TENSION ESQUEMA CAMBIO TENSION		Modello: HPD Version: USA	
CODICE: 10097024.00 (220V 3F 60HZ) 10099001.00 (220V MONO 60HZ)	Rif	Modifiche	Data	Firma	Schema: n° 1/12 Data: 07/06/04 Dis: A.Colavitti Contr: - file: 037_Lusadwg
	a	Aggiunta versione mono	28/04/05	Colavitti	
	b	Aggiunto schema n°12	19/12/05	Colavitti	
	c	Spostato fusibile F17	20/01/06	Colavitti	
	d	-	-	-	
CODICE CASSA/CABL.: -	e	-	-	-	





DIAGRAM LEGEND	
HRV	Nr.1 CONTACTOR FOR VENTILATION LAMPS (HR1710)
HR1	Nr.1 CONTACTOR FOR 1st. STARTING (HR46)
HR2	Nr.1 CONTACTOR FOR 2nd. STARTING (HR2510)
C1-C3-C4-C8-C9-C10-C11-C12	Nr.9 – 65 µF CONDENSER
C5-C7-C9-C13-C14	Nr.5 – 20 µF CONDENSER
F1-F16	Nr.16 – 15A AM FUSES
F17	Nr.1 – 6.3A T FUSES
T	Nr.1 TIMER



SPURAREDO, SM		DESCRIZIONE: PRACTICAL DIAGRAM CONTROL OF COLUMN CONTROL BOARD (CONTROL)		Modello: HPD	
Via dell'Industria, 7 30020 GORIZIA (VE)		PRAKTISCHEN KOLONNENSTEUERUNGSDIAGRAMM (STEUERUNG)		Versione: USA	
tel. 0421/767630 - fax 767635		SCHEMA PRACTICO COLONNA COMANDI (COMANDI)			
PROPRIETÀ RISERVATA DELLA DITTA SPURAREDO		ESQUEMA PRACTICO COLONNA MANDOS (MANDOS)			
È vietato riprodurre o comunicare a terzi		SCHEMA PRACTIQUE COLONNE COMMANDES (COMMANDES)			
Il contenuto del presente disegno					
CODICE: 10097024.00 (220V 3F 60Hz)	Rif	Modifiche	Data	Firma	Schema n° 3/12
10099.001.00 (220V MONO 60Hz)	a	Aggiunta versione mono	28/04/05	Colavitti	19/12/05
	b	Aggiunto schema n°12	20/01/06	Colavitti	07/06/04
	c	Spostato fusibile F17	-	-	Dis: AColavitti
	d	-	-	-	Contr.: -
	e	-	-	-	File: 037_23usadwg

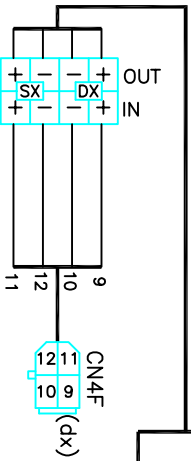
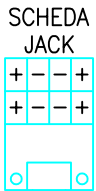


DIAGRAM LEGEND		
C1-C3-C5-C6-C7-C8-C9	N°7 - 65 µF CONDENSER	
C2-C4-C10-C11-C12-C13-C14	N°7 - 20 µF CONDENSER	
F	N°1 - 25A 1 FUSE	

SPORTAREDDI spa Via dell'Industria, 7 30020 GRUPPO (VE) tel. 0423/767630 - fax 767633 PROPRIETÀ RISERVATA DELLA DITTA SPORTAREDDI È vietato riprodurre o comunicare a terzi il contenuto del presente disegno		DESCRIZIONE: PRACTICAL DIAGRAM OF RADIO COLUMN SCHEMA PRACTICO COLONNA AUTORAUDIO PRAKTISCHEN KOLUMNEAUTORAUDIOGRAMM ESQUEMA PRACTICO COLONNA RADIO SCHEMA PRACTIQUE COLONNE AUTO-RADIO			Modello: HPD Versioni: USA	
CODICE: 10097.024.00 (220V 3F 60Hz) 10099.001.00 (220V MONO 60Hz)	Rif	Modifiche	Data	Firma	Schemo n° 4/12 Data: 07/06/04	
	a	Aggiunta versione mono	28/04/05	Colavitti	Dls: A.Colavitti	
	b	Aggiunto schema n°12 - dicitura F1 sostituito con F	19/12/05	Colavitti	Contr.: -	
	c	-	-	-		
	d	-	-	-		
	e	-	-	-		
CODICE CASS.: 12003037.00		file: 037_4usa.dwg				

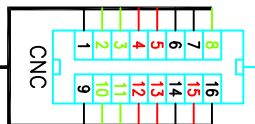
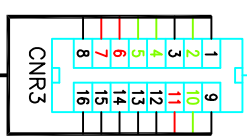
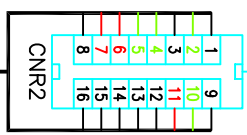
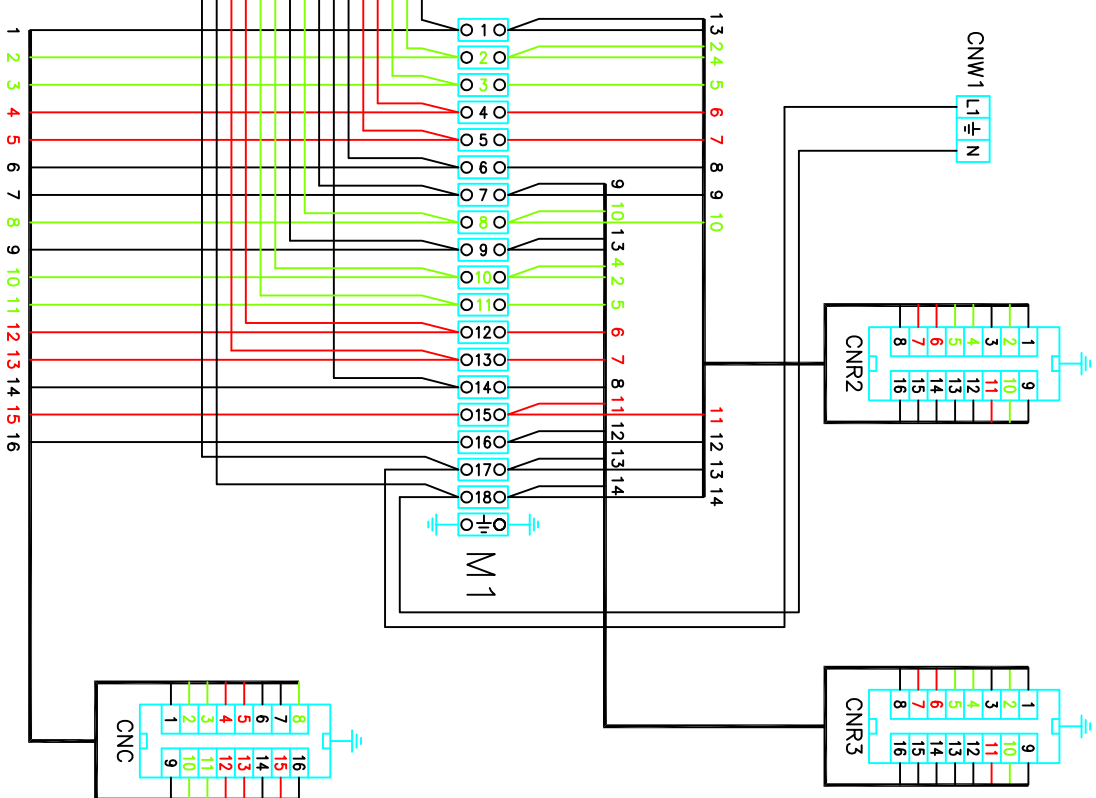
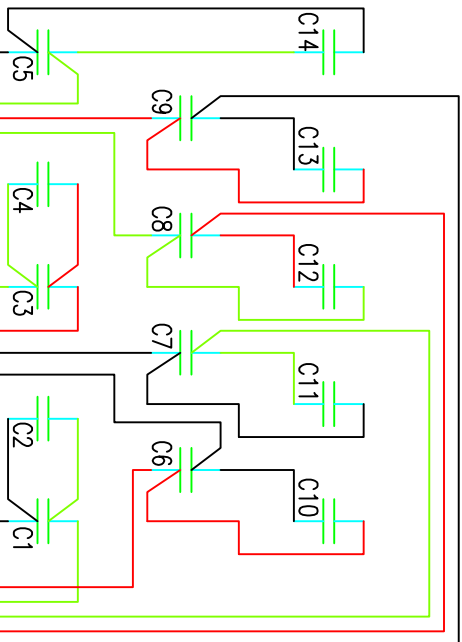
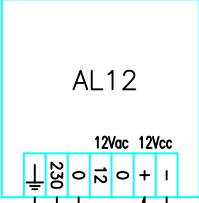
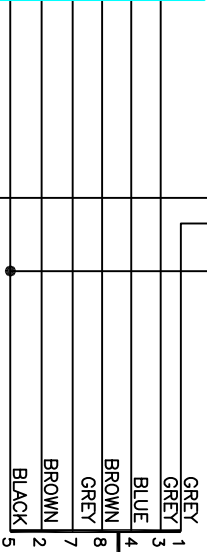
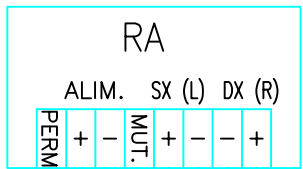
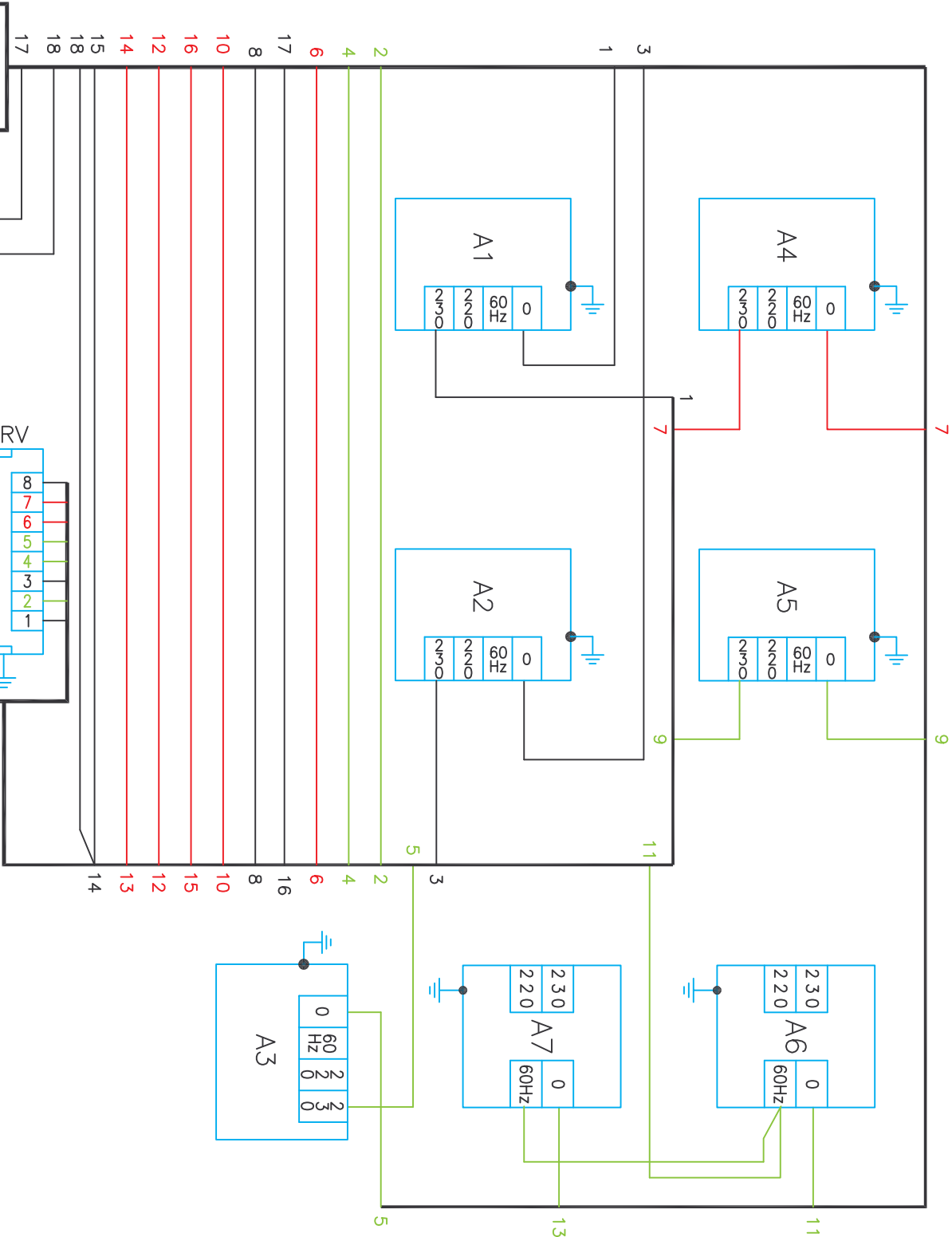
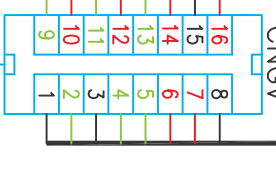
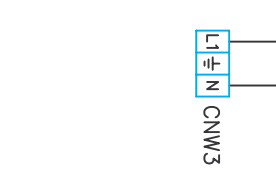



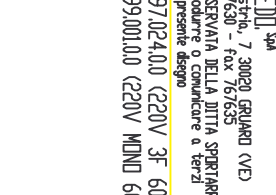
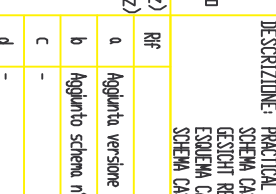
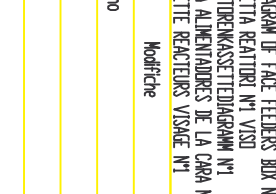

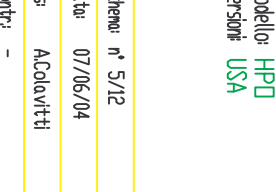


DIAGRAM LEGEND		
A1-A5	Nr.5 - 1400W BALLASTS HIGH PRESSURE	
A6-A7	Nr.2 - 600W BALLASTS HIGH PRESSURE	

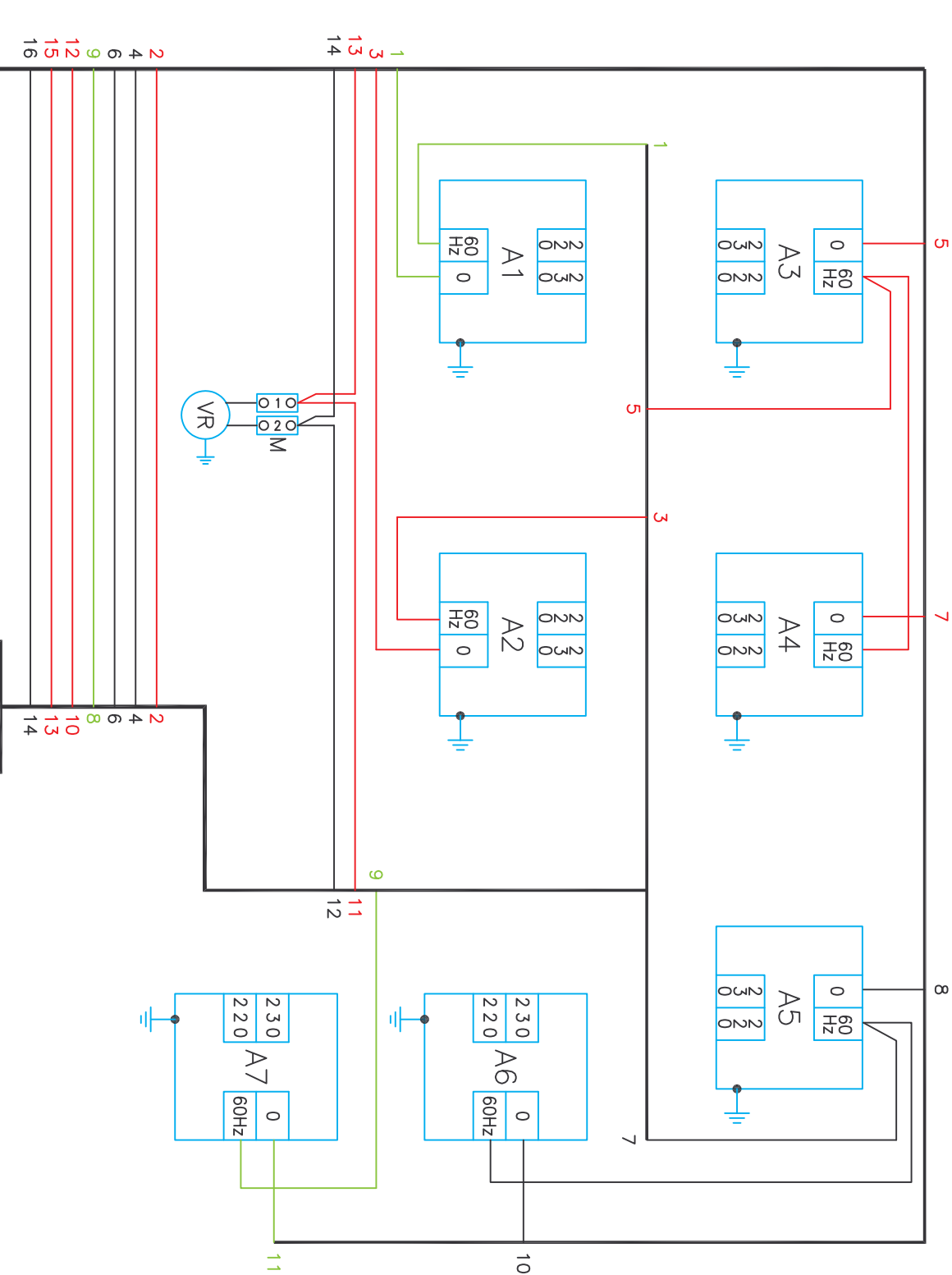


SPORTAREDDI SpA Via dell'Industria, 7 30020 GRAPPO (VE) tel. 0423/767630 - fax 767633 PROPRIETÀ RISERVATA DELLA CITTA' SPORTAREDDO È vietato riprodurre o comunicare a terzi il contenuto del presente disegno		DESCRIZIONE: PRACTICAL DIAGRAM OF FACE FEEDERS BOX N°1 SCHEMA CASSETTA REATTORI NT VISIO GESICHT REAKTOREKASSETTEDIAGRAM N°1 ESQUEMA CAJA ALIMENTADORES DE LA CARA N°1 SCHEMA CASSETTE REACTEURS VISAGE N°1		Modello: HPD Versione: USA
CODICE: 10097.024.00 (220V 3F 60Hz) 10099.001.00 (220V MONO 60Hz)	Rif	Modifiche	Data	Firma
a	Aggiunta versione mono		28/04/05	Colavitti
b	Aggiunto schema n°12		19/12/05	Colavitti
c	-		-	-
d	-		-	-
e	-		-	-
CODICE CASS.: 13003.038.00	file: 037_Susa.dwg			



DIAGRAM LEGEND  
A1-A7 Nr.7 - 600W BALLASTS HIGH PRESSURE



SPORTAREDDI, s.p.a. Via dell'Industria, 7 30020 GRAPPO (VE) tel. 0423/767650 - fax 767653 PROPRIETÀ RISERVATA DELLA DITTA SPORTAREDDI È vietato riprodurre o comunicare a terzi il contenuto del presente disegno		DESCRIZIONE: DIAGRAM BALLASTS BOX Nr.2 SCHEMA CASSETTA REATTORI Nr.2 REACTORENCASSETTEDIAGRAM Nr.2 ESQUEMA CAJA ALIMENTADORES NR.2 SCHEMA CASSETTE REACTEURS NR.2		Modello: HPD Version: USA	
CODICE: 10097024.00 (220V 3F 60Hz) 100990001.00 (220V MONO 60Hz)	Rif	Modifiche	Data	Firma	
a	Aggiunta versione mono		28/04/05	Colavitti	
b	Aggiunto schema n°12		19/12/05	Colavitti	
c	-		-	-	
d	-		-	-	
e	-		-	-	
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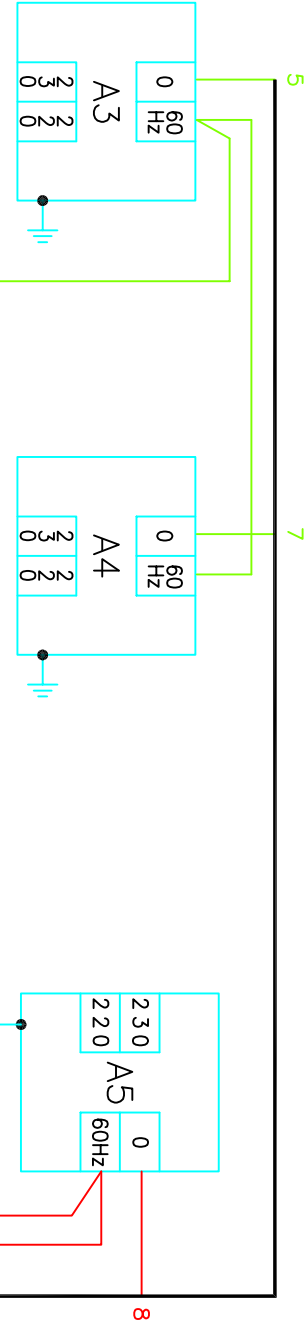
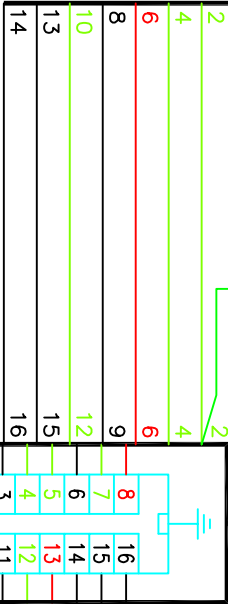
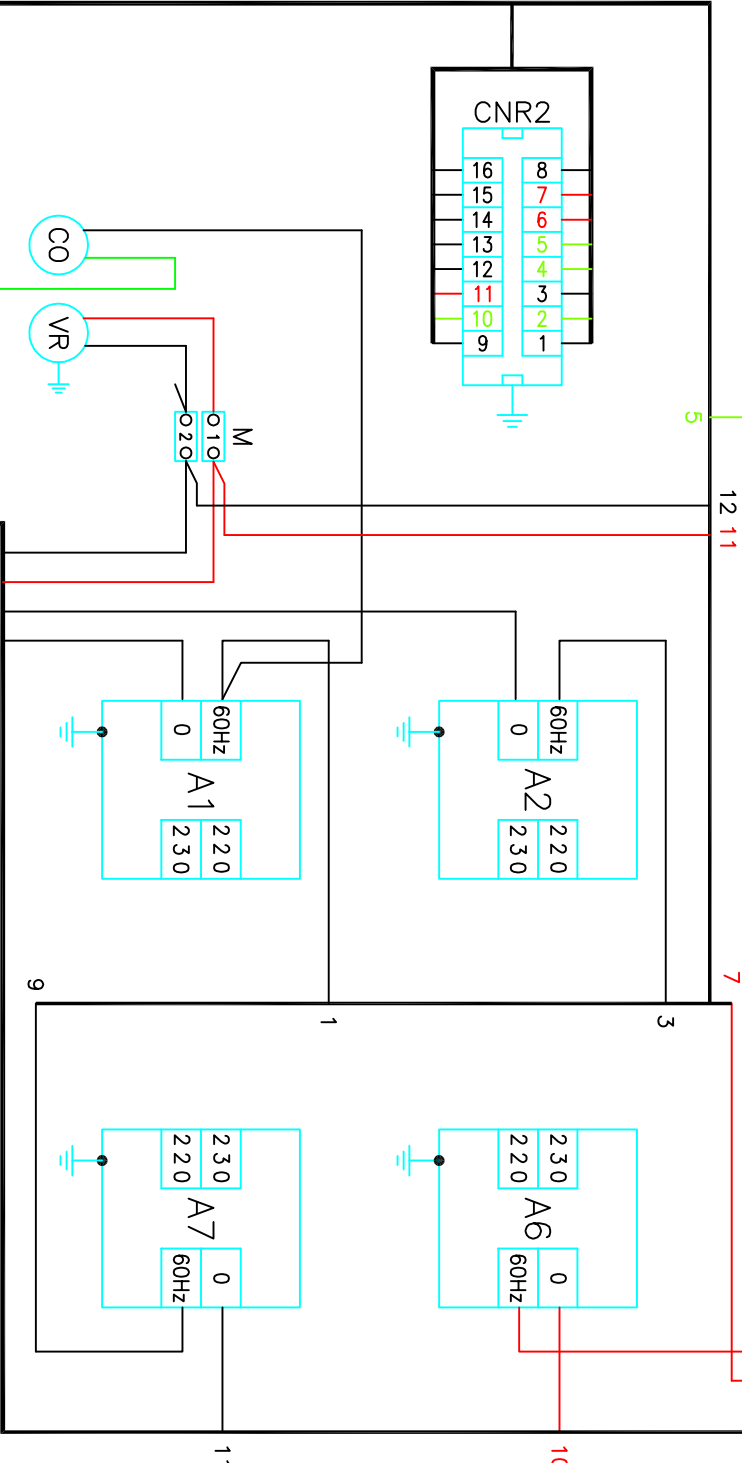
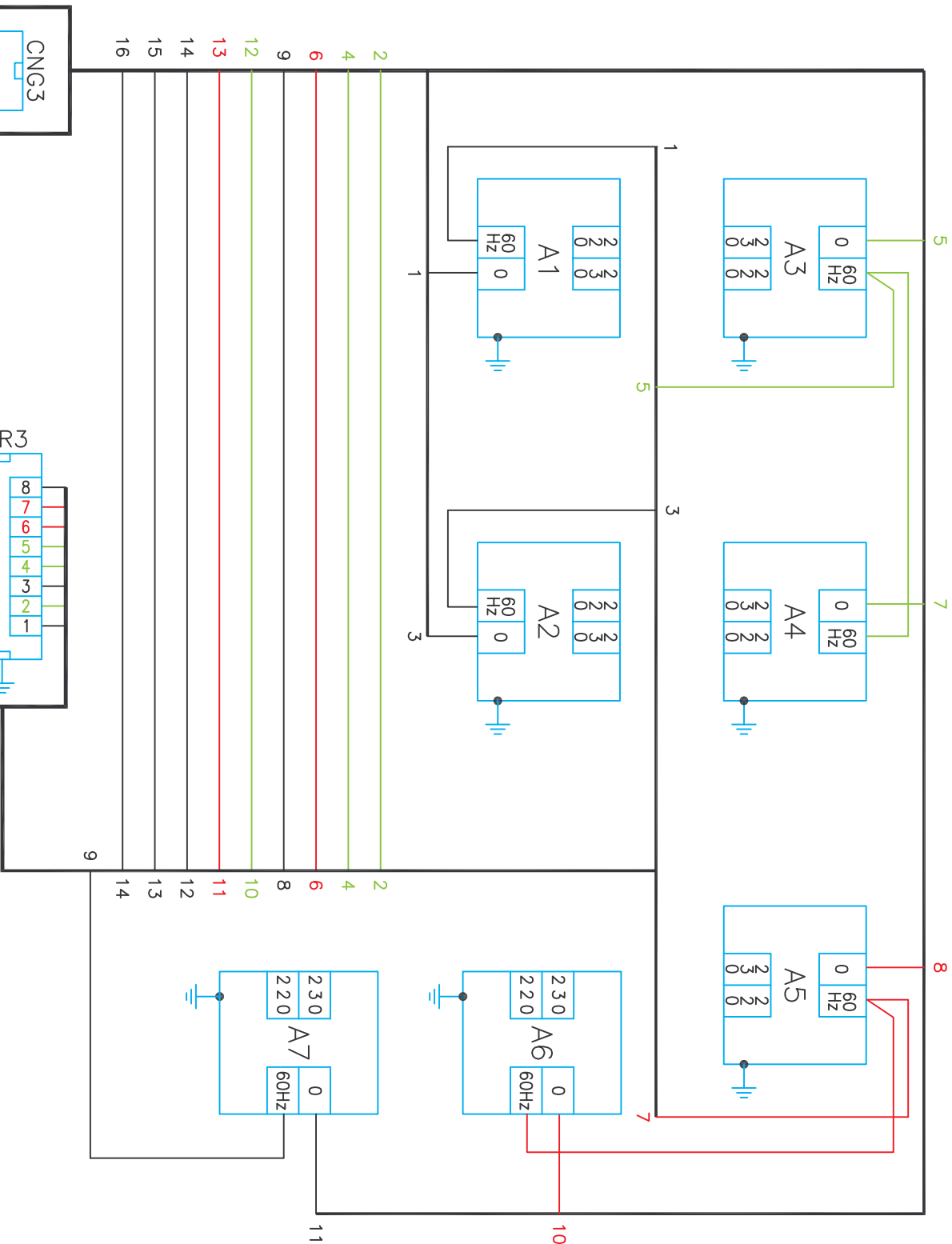


DIAGRAM LEGEND  
A1-A7 N.7 - 600W BALLASTS HIGH PRESSURE



SPORTAREDDI, SpA		DESCRIZIONE: DIAGRAM BALLASTS BOX N°3		Modello: HPD	
Via dell'Industria, 7 30020 GRAPPO (VE)		SCHEMA CASSETTA REATTORI N°3		Versione: USA	
Tel. 0423/767650 - Fax 767655		REATTORI CASSETTE DIAGRAM N°3			
Proprietà: RISERVA DELLA DITTA SPORTAREDDI		ESQUEMA CAJA ALIMENTADORES N°3			
È vietato riprodurre o comunicare a terzi		SCHEMA CASSETTE REACTEURS N°3			
il contenuto del presente disegno					
CODICE: 10097024.00 (220V 3F 60Hz)	Rif	Modifiche	Data	Firma	Schema: n° 7/12
10099001.00 (220V MONO 60Hz)	a	Aggiunta versione mono	28/04/05	Colavitti	Datore: 07/06/04
	b	Aggiunto schema n°12	19/12/05	Colavitti	Dise: A.Colavitti
	c	Varcata alimentazione cortatore	28/11/06	Colavitti	Contr.: -
	d	-	-	-	File: 037_7uso.dwg
	e	-	-	-	
CODICE CASS: 13003040.00					

DIAGRAM LEGEND  
A1-A7 Nr.7 – 600W BALLAST HIGH PRESSURE



SPORTAREDDI, SpA		DESCRIZIONE: DIAGRAM BALLAST'S BOX Nr.4		Modello: HPD	
Via dell'Industria, 7 30020 GRAPPO (VE)		SCHEMA CASSETTA REATTORI Nr.4		Versione: USA	
Tel. 0423/767630 - Fax 767633		REATTORI CASSETTE DIAGRAM Nr.4			
Proprietà: RISERVA DELLA DITTA SPORTAREDDI		ESQUEMA CAJA ALIMENTADORES Nr.4			
È vietato riprodurre o comunicare a terzi		SCHEMA CASSETTE REACTEURS Nr.4			
Il contenuto del presente disegno					
CODICE: 10097024.00 (220V 3F 60Hz)		Rif	Modifiche	Data	Firma
100991001.00 (220V MONO 60Hz)		a	Aggiunta versione mono	28/04/05	Colavitti
		b	Aggiunto schema n°12	19/12/05	Colavitti
		c	-	-	-
		d	-	-	-
		e	-	-	-
CODICE CASS: 13003041.00				Schema: n° 8/12	
				Data: 07/06/04	
				Dis: A.Colavitti	
				Contr: -	
				File: 037_Busa.dwg	



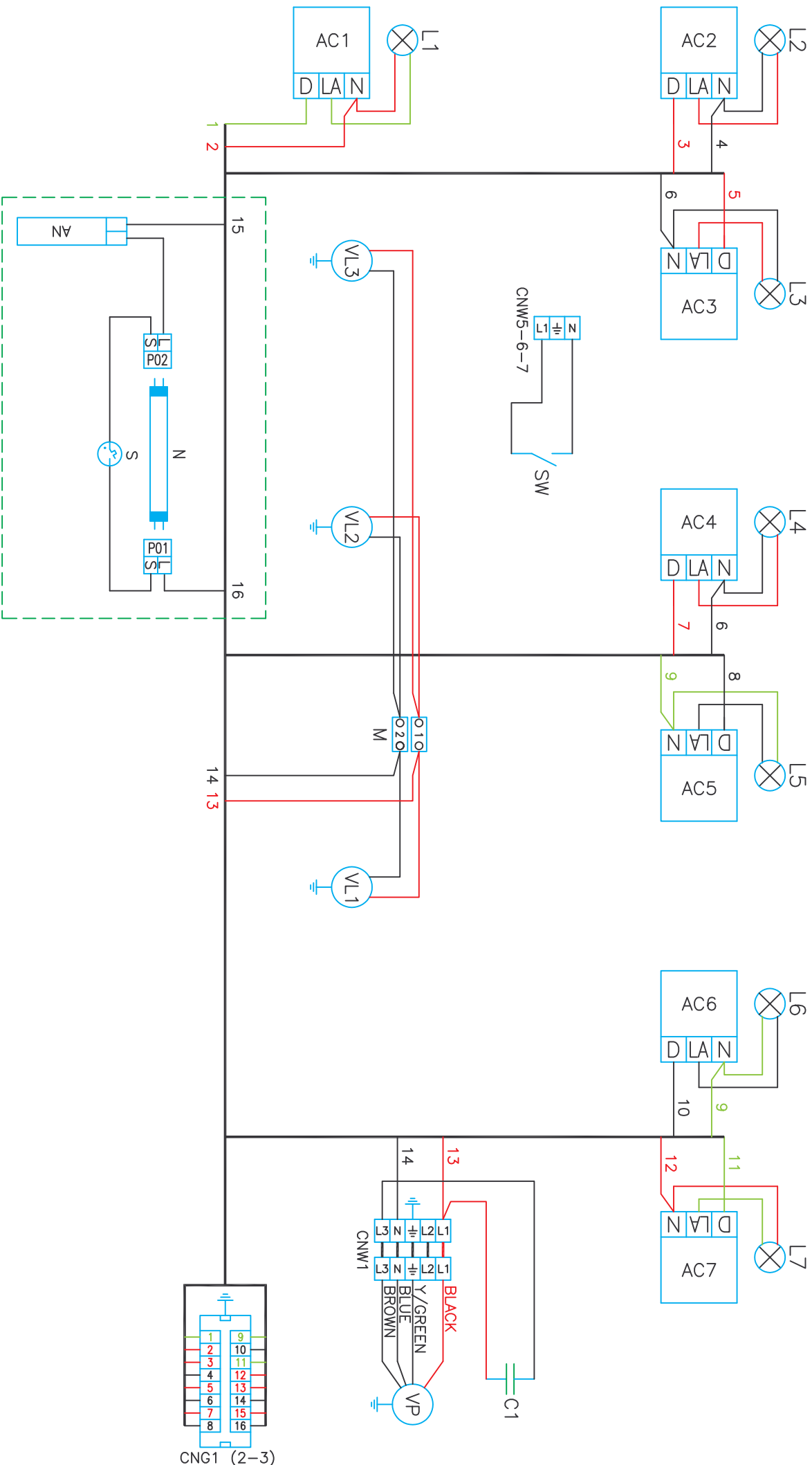
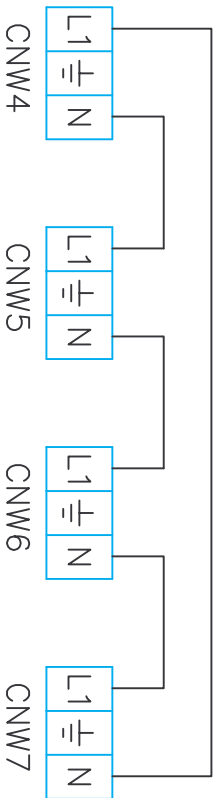
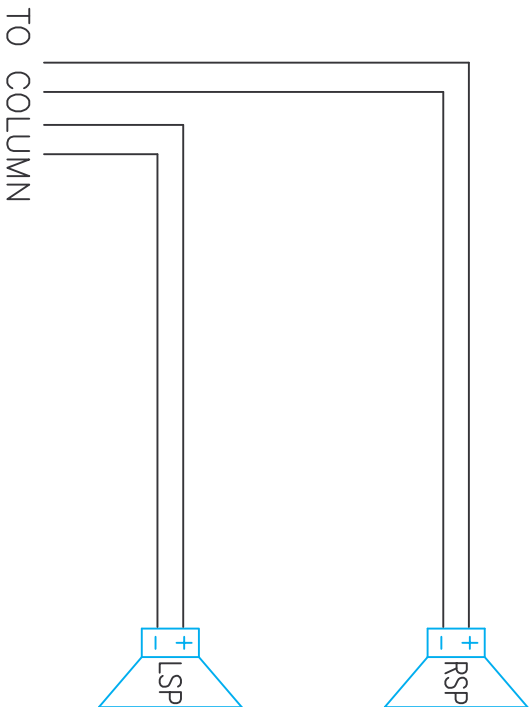
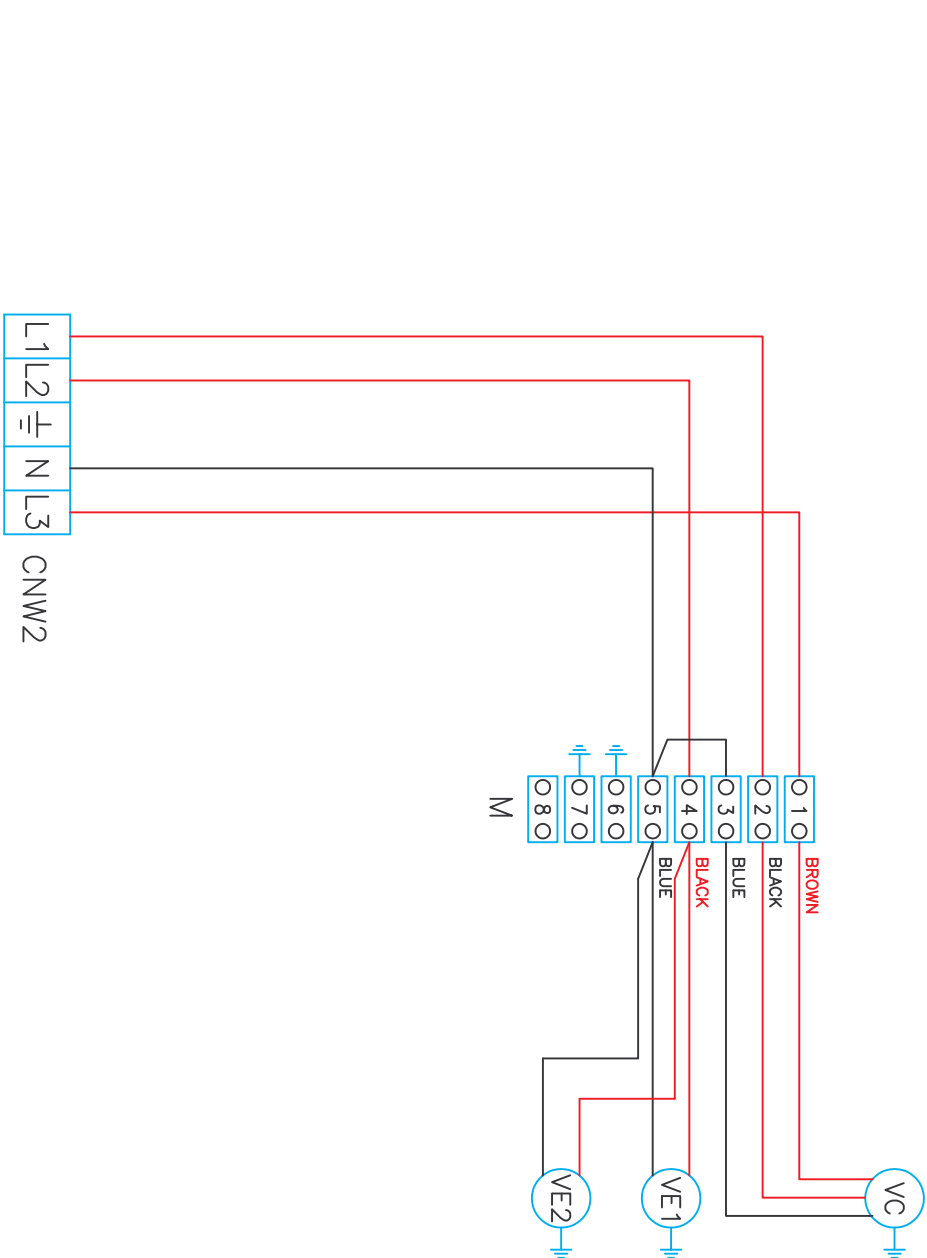


DIAGRAM LEGEND	
C1	Nr.1 – 2,5 µF CONDENSER
AC1-AC7	Nr.7 – 600W IGNITERS
L1-L7	Nr.7 – 600W HIGH PRESSURE LAMPS
N	Nr.1 – 56W LAMP
AN	Nr.1 – 56W BALLAST

SPORTAREDDI SpA Via dell'Industria, 7 30020 GRUARO (VE) tel. 0423/767650 - fax 767655 PROPRIETÀ RISERVATA DELLA DITTA SPORTAREDDI È vietato riprodurre o comunicare a terzi il contenuto del presente disegno		DESCRIZIONE: DIAGRAM OF COLUMN SCHEMA COLUMN KOLUNNEDIAGRAM ESQUEMA COLUMNA SCHEMA COLUMN		Modello: HPD Versioni: USA	
CODICE: 10097.024.00 (220V 3F 60Hz) 10099.001.00 (220V MONO 60Hz)		Rif	Modifiche	Data	Firma
		a	Aggiunta versione mono	28/04/05	Colavitti
		b	Aggiunto schema n°12	19/12/05	Colavitti
		c	-	-	-
		d	-	-	-
		e	-	-	-
CODICE CARL: 17073153.00/17073154.00					
					Schema: n° 10/12
					Data: 07/06/04
					Dls: A.Colavitti
					Contr.: -
					File: 037_10usa.dwg



SPORTAREDDI spa Via dell'Industria, 7 30020 GRUARO (VE) tel. 0423/767650 - fax 767653 PROPRIETA' RISERVATA DELLA DITTA SPORTAREDDI E' vietato riprodurre o comunicare a terzi il contenuto del presente disegno		DESCRIZIONE: DIAGRAM FAN CAP SCHEMA VENTILAZIONE CAPPELLO KAPUZELLEFFIONSDIAGRAM ESQUEMA VENTILACION DE LA TAPA SCHEMA VENTILATION CAPUCHON		Modello: HPD Versione: USA	
CODICE: 10097.024.00 (220V 3F 60Hz) 10099.001.00 (220V MONO 60Hz)		Rif		Data	Firma
a		Aggiunta versione mono		28/04/05	Colavitti
b		Aggiunto schema n°12		19/12/05	Colavitti
c		-		-	-
d		-		-	-
e		-		-	-
CODICE CARL/CASS:				file:	037_illusadwg

FUSE n°	A	PROTECTION
F	2,5 delay	VOCAL BOARD
1	12 delay	LAMP N°1 1500W FACE COLUMN n°1
2	12 delay	LAMP N°2 1500W FACE COLUMN n°1
3	12 delay	LAMP N°3 1500W FACE COLUMN n°1 AND LAMP N°1 600W COLUMN n°2
4	12 delay	LAMP N°4 1500W FACE COLUMN n°1 AND LAMP N°2 600W COLUMN n°2
5	12 delay	LAMP N°5 1500W FACE COLUMN n°1 AND LAMP N°7 600W COLUMN n°2
6	12 delay	LAMP N°6-7 600W FACE COLUMN n°1
7	12 delay	LAMP N°3-4 600W COLUMN n°2
8	12 delay	LAMP N°5-6 600W COLUMN n°2
9	12 delay	LAMP N°1-2 600W COLUMN n°3
10	12 delay	LAMP N°3-4 600W COLUMN n°3
11	12 delay	LAMP N°5-6 600W COLUMN n°3
12	12 delay	LAMP N°7 600W COLUMN n°3 LAMP N°7 600W COLUMN n°4
13	12 delay	LAMP N°1-2 600W COLUMN n°4
14	12 delay	LAMP N°3-4 600W COLUMN n°4
15	12 delay	LAMP N°5-6 600W COLUMN n°4
16	12 delay	VENTILATOR AND COMAND
17	6,3 delay	ILLUMINATION COLUMN AND ALIMENTATOR 12Vdc

CONNECTOR A	POSITION (A) ← →		POSITION (B)	CONNECTOR B
CNRV	CASSETTA COMANDI		CASSETTA REATTORI VISO N°1	CNRV
CNR1	CASSETTA COMANDI		CASSETTA REATTORI N°2	CNR1
CNC	CASSETTA COMANDI		COLONNA AUTORADIO	CNC
CNGV	CASSETTA REATTORI VISO N°1		COLONNA VISO N°1	CNGV
CNR2	COLONNA AUTORADIO		CASSETTA REATTORI N°3	CNR2
CNR3	COLONNA AUTORADIO		CASSETTA REATTORI N°4	CNR3
CNG1	CASSETTA REATTORI N°2		COLONNA N°2	CNG1
CNG2	CASSETTA REATTORI N°3		COLONNA N°3	CNG2
CNG3	CASSETTA REATTORI N°4		COLONNA N°4	CNG3
CNW1	CASSETTA COMANDI		COLONNA RADIO	CNW1
CNW	CASSETTA COMANDI		GETTONIERA	CNW
CN4M	CASSETTA COMANDI		COLONNA RADIO	CN4F
CN8M	CASSETTA COMANDI		COLONNA RADIO	CN8F
CNW3	CASSETTA REATTORI VISO N°1		COLONNA VISO	CNW3
CNW4	COLONNA VISO		CAPELLO	CNW4
CNW5	COLONNA N°1		CAPELLO	CNW5
CNW6	COLONNA N°2		CAPELLO	CNW6
CNW7	COLONNA N°3		CAPELLO	CNW7
CNW2	COLONNA VISO		CAPELLO	CNW2

SPORTAREDDI SpA Via dell'Industria, 7 30020 GRAPPO (VE) tel. 0423/767650 - fax 767653 PROPRIETÀ RISERVATA DELLA DITTA SPORTAREDDI È vietato riprodurre o comunicare a terzi il contenuto del presente disegno		DESCRIZIONE: SCHEMA FUSIBILI E CONNETTORI FUSES AND CONNECTOR DIAGRAM SCHMELZ UND VERBINDER DIAGRAM SCHEMA FUSIBLES ET CONNECTEUR ESQUEMA FUSIBLES Y CONECTORES		Modello: HPD Versione: USA	
CODICE: 10097.024.0.0 (220V 3F 60Hz)	Rif.	Modifiche	Data	Firma	Schema: n° 12/12
10099.001.0.0 (220V MONO 60Hz)	a	Aggiunto schema n°12	19/12/05	Colavitti	Data: 13/09/05
	b	-	-	-	Dise: A.Colavitti
	c	-	-	-	Contr.: -
	d	-	-	-	
	e	-	-	-	File: 037_12usa.dwg
CODICE CABL./CASS.:					

## 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.**

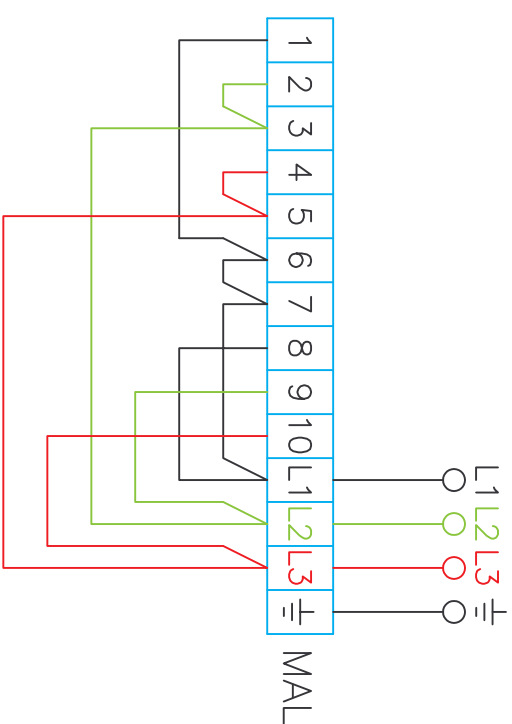
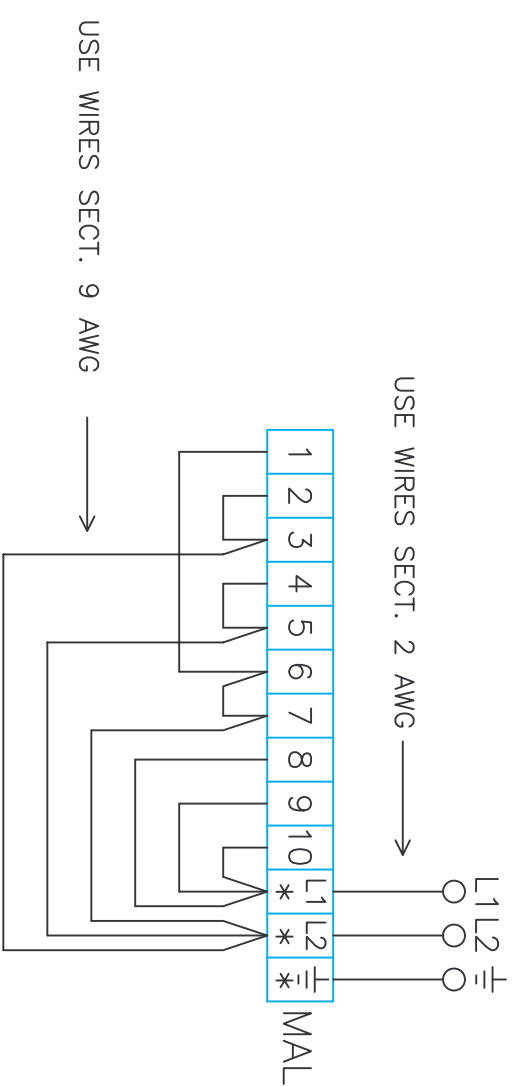
Implied warranties in jurisdictions where they may not be disclaimed shall be in effect only for the duration of the express warranty set forth herein.

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.



V = 230V MONO 60HZ      V = 230V 3F~ 60HZ

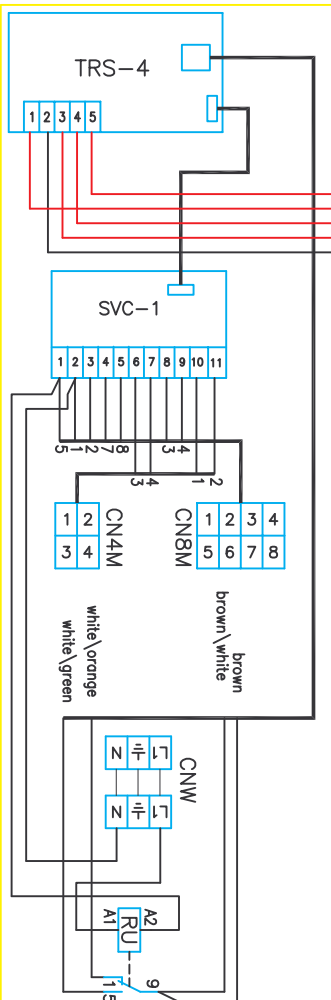
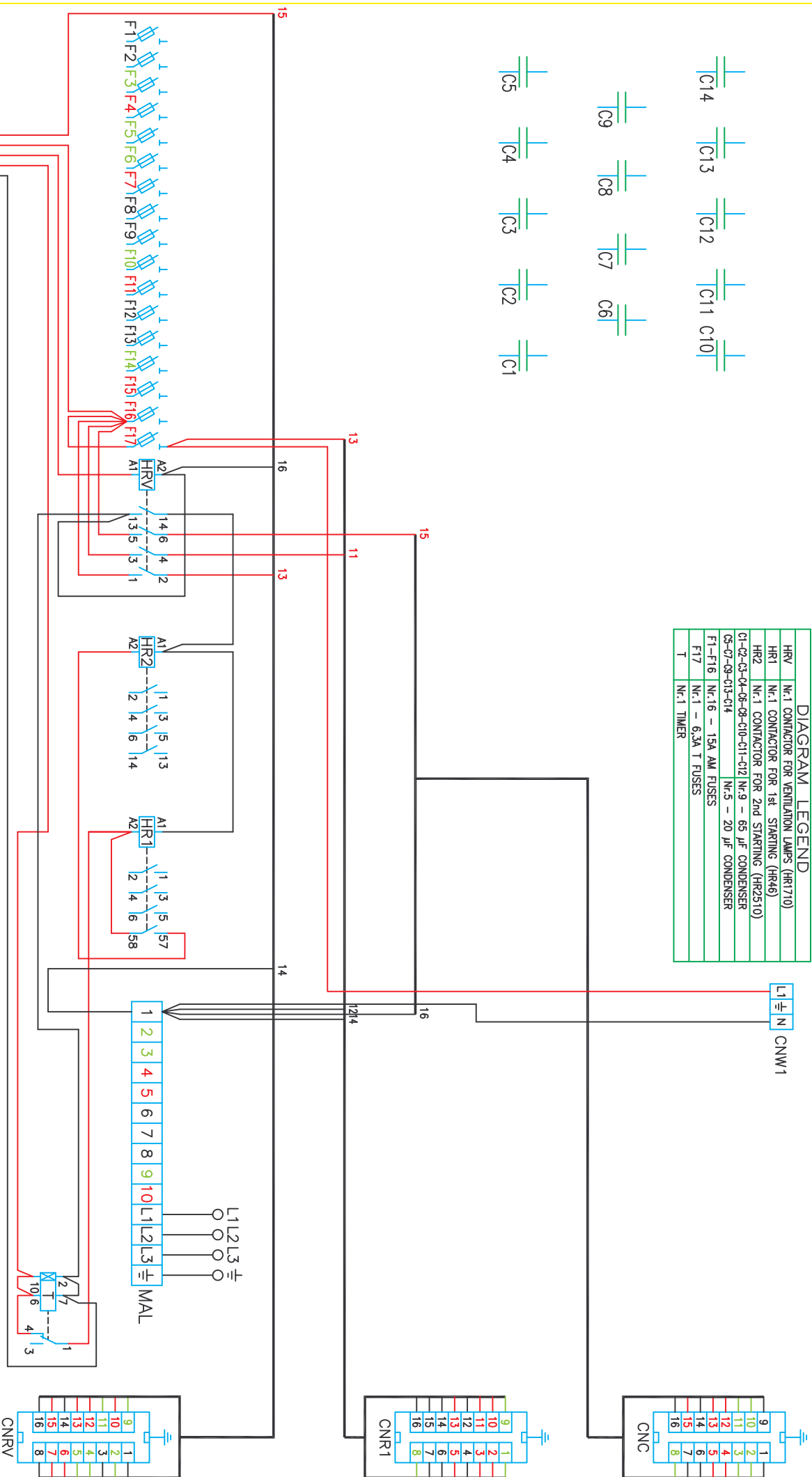
\* REPLACE TERMINALS INDICATED  
WITH 125amps TERMINALS

SPORTAREDDI <sup>spa</sup> Via dell'Industria, 7 30020 GRUARO (VE) tel. 0423/767630 - fax 767635 PROPRIETÀ RISERVATA DELLA DITTA SPORTAREDDI È vietato riprodurre o comunicare a terzi il contenuto del presente disegno		DESCRIZIONE: VOLTAGE-CHANGE DIAGRAM DIAGRAMM FÜR SPANNUNGSÄNDERUNG SCHEMA CAMBIO TENSIONE SCHEMA CHANGE TENSION ESQUEMA CAMBIO TENSION				Modello: HPD Versione: USA	
CODICE: 10097.024.0.0 (220V 3F 60Hz) 10099.001.0.0 (220V MONO 60Hz)		Rif		Data	Firma		
		a	Aggiunta versione mono	28/04/05	Colavitti	Schema: n° 1/12	
		b	Aggiunto schema n°12	19/12/05	Colavitti	Data: 07/06/04	
		c	Spostato fusibile F17	20/01/06	Colavitti	Dis: A.Colavitti	
		d	-	-	-	Contr.: -	
CODICE CASS./CABL.: -		e	-	-	-	file: 037_Lusadwg	





DIAGRAM LEGEND	
HRV	Nr.1 CONTACTOR FOR VENTILATION LAMPS (HR1710)
HR1	Nr.1 CONTACTOR FOR 1st. STARTING (HR46)
HR2	Nr.1 CONTACTOR FOR 2nd. STARTING (HR2510)
C1-C3-C4-C8-C9-C10-C11-C12	Nr.9 – 65 µF CONDENSER
C5-C7-C9-C13-C14	Nr.5 – 20 µF CONDENSER
F1-F16	Nr.16 – 15A AM FUSES
F17	Nr.1 – 6.3A T FUSES
T	Nr.1 TIMER



SPURAREDO, SM		DESCRIZIONE: PRACTICAL DIAGRAM CONTROL OF COLUMN CONTROL BOARD (CONTROL)		Modello: HPD	
Via dell'Industria, 7 30020 GORIZIA (VE)		PRAKTISCHEN KOLONNENSTEUERUNGSDIAGRAMM (STEUERUNG)		Versione: USA	
tel. 0421/767630 - fax 767635		SCHEMA PRACTICO COLUMNA COMMAND (COMMAND)			
PROPRIETÀ RISERVATA DELLA DITTA SPURAREDO		ESQUEMA PRACTICO COLUMNA MANDOS (MANDOS)			
È vietato riprodurre o comunicare a terzi		SCHEMA PRACTIQUE COLUMNE COMMANDS (COMMANDS)			
Il contenuto del presente disegno					
Rif	Modifiche	Data	Firma	Schema n°	Dis:
a	Aggiunta versione mono	28/04/05	Colavitti	3/12	Colavitti
b	Aggiunto schema n°12	19/12/05	Colavitti	07/06/04	Colavitti
c	Spostato fusibile F17	20/01/06	Colavitti	-	Colavitti
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e	-	-	-	-	-
CODICE CASSA: 13003.036.00 / .058.00				File: 037_23usd.wg	

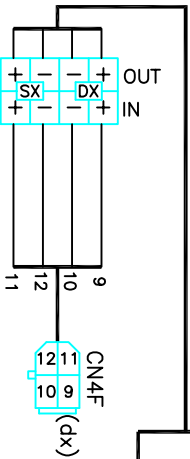
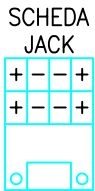


DIAGRAM LEGEND		
C1-C3-C5-C6-C7-C8-C9	N°7 - 65 µF CONDENSER	
C2-C4-C10-C11-C12-C13-C14	N°7 - 20 µF CONDENSER	
F	N°1 - 25A 1 FUSE	

SPORTAREDDI spa Via dell'Industria, 7 30020 GRUGARO (VE) tel. 0421/767630 - fax 767633 PROPRIETÀ RISERVATA DELLA DITTA SPORTAREDDI È vietato riprodurre o comunicare a terzi il contenuto del presente disegno		DESCRIZIONE: PRACTICAL DIAGRAM OF RADIO COLUMN SCHEMA PRACTICO COLONNA AUTORAUDIO PRAKTISCHEN KOLUMNEAUTORAUDIOGRAMM ESQUEMA PRACTICO COLONNA RADIO SCHEMA PRACTIQUE COLONNE AUTO-RADIO		Modello: HPD Versioni: USA	
CODICE: 10097024.00 (220V 3F 60Hz) 10099001.00 (220V MONO 60Hz)	Rif	Modifiche	Data	Firma	Schema: n° 4/12
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b	Aggiunto schema n°12 - dicitura F1 sostituito con F		19/12/05	Colavitti	Disegnato: A.Colavitti
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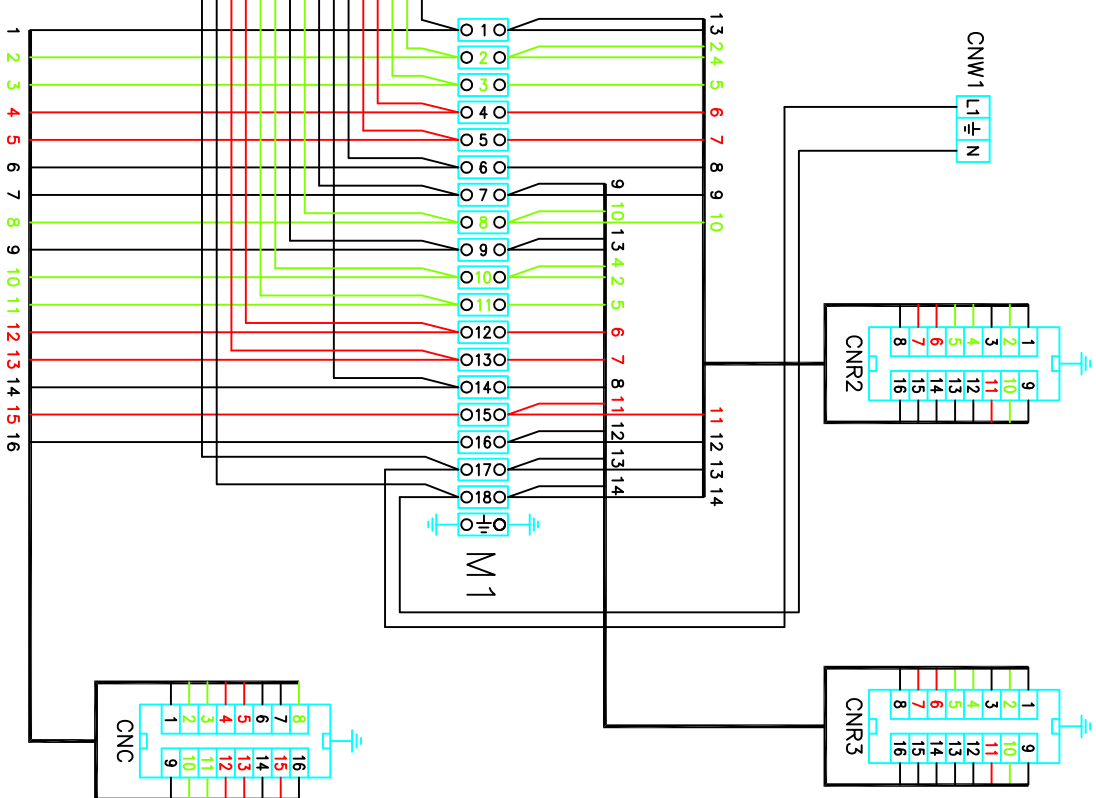
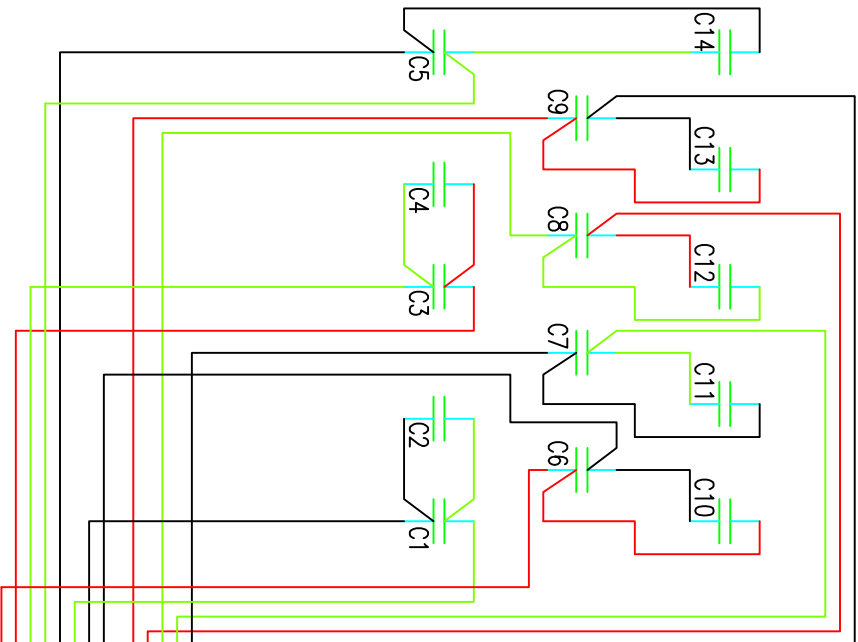
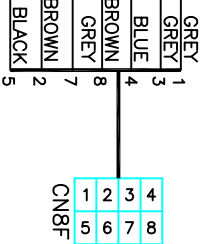
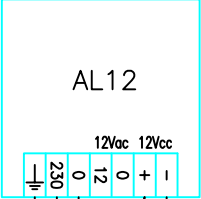
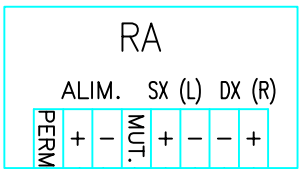
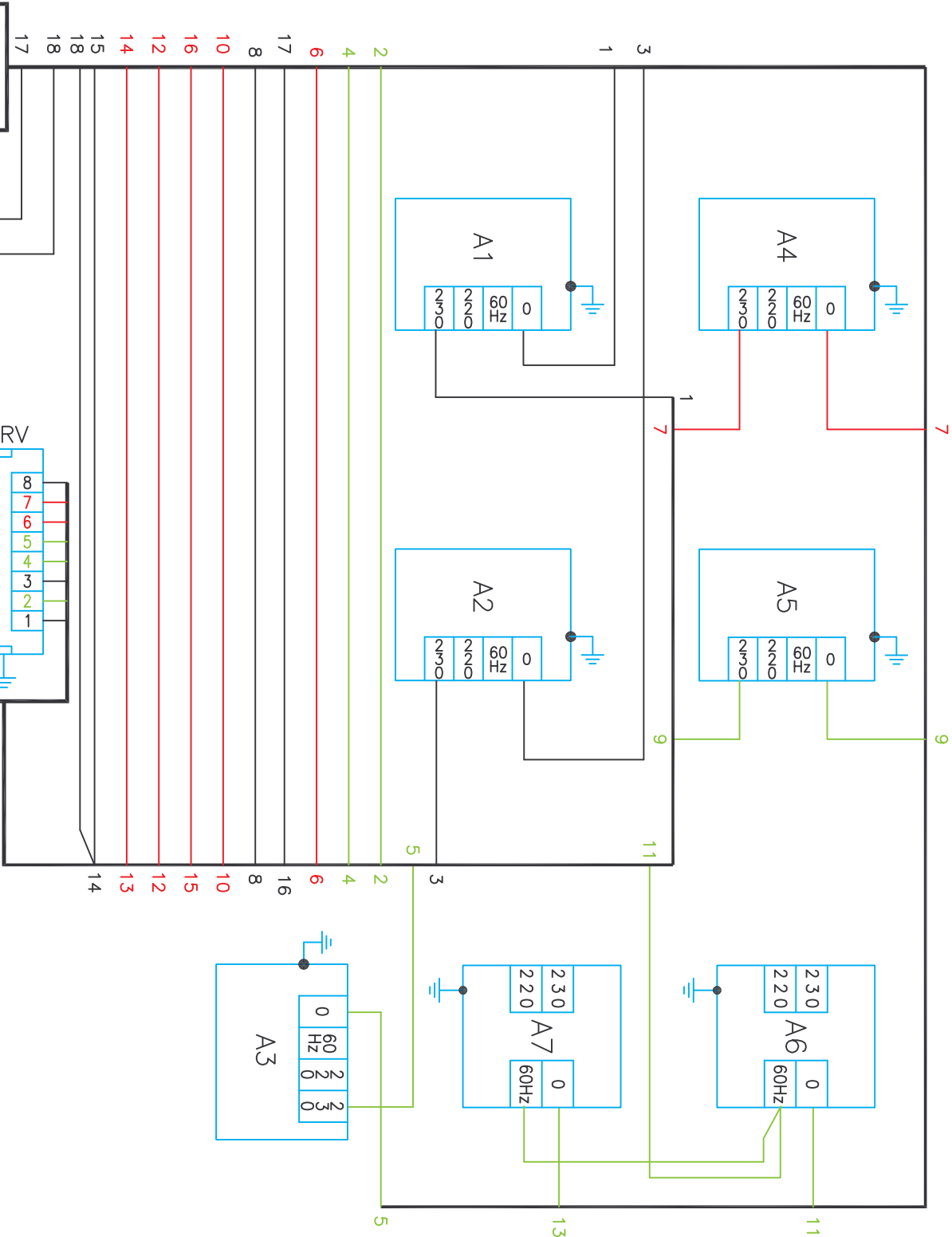
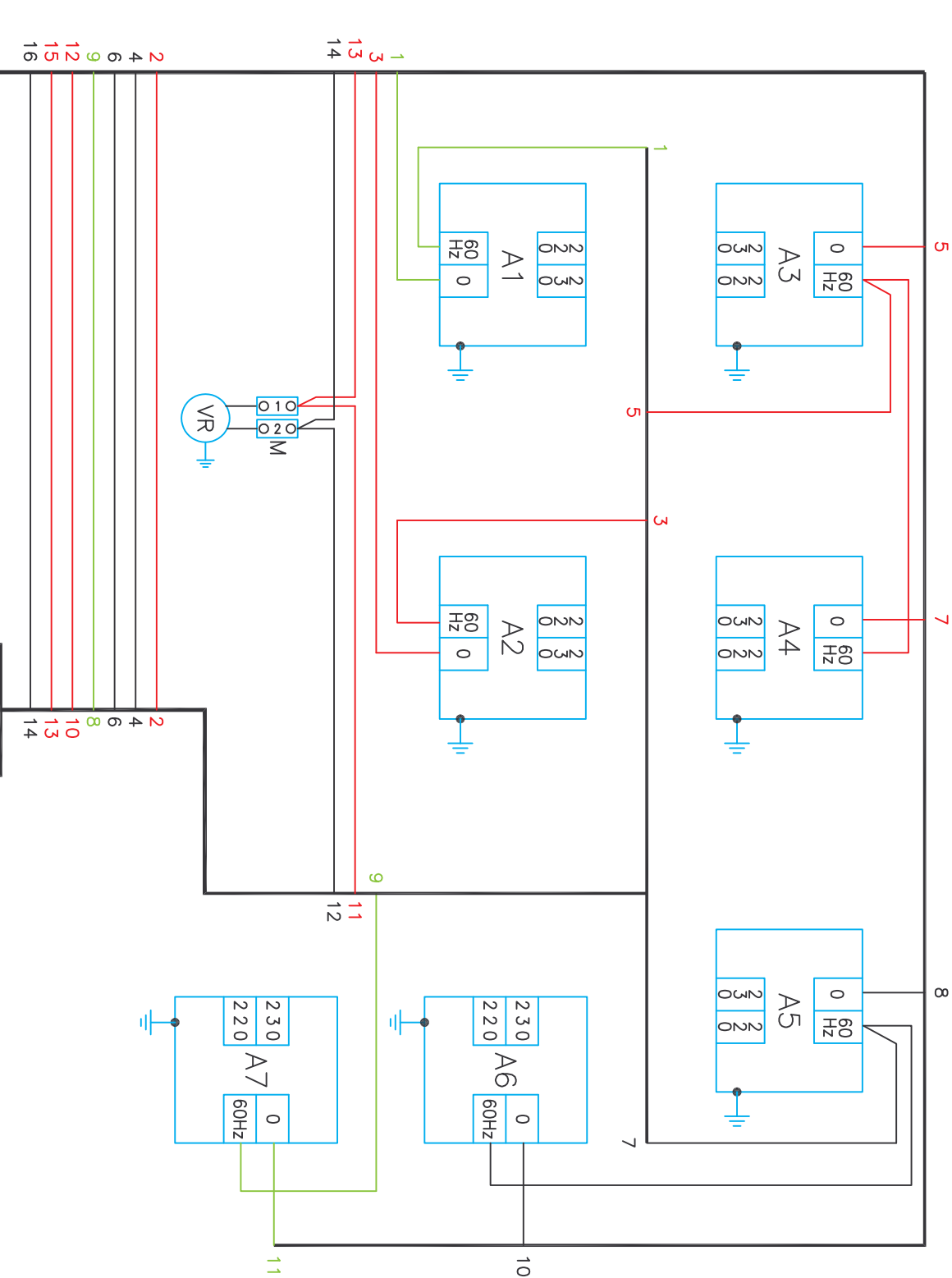


DIAGRAM LEGEND		
A1-A5	Nr.5 - 1400W BALLASTS HIGH PRESSURE	
A6-A7	Nr.2 - 600W BALLASTS HIGH PRESSURE	



<b>SPORTAREDDI, SpA</b> Via dell'Industria, 7 30020 GRAPPO (VE) Tel. 0423/767630 - Fax 767635 Proprietà: RISERVA DELLA CITTA' SPORTAREDDO È vietato riprodurre o comunicare a terzi il contenuto del presente disegno	<b>DESCRIZIONE:</b> PRACTICAL DIAGRAM OF FACE FEEDERS BOX N°1 SCHEMA CASSETTA REATTORI NT VISIO GESICHT REAKTOREKASSETTEDIAGRAM N°1 ESQUEMA CAJA ALIMENTADORES DE LA CARA N°1 SCHEMA CASSETTE REACTEURS VISAGE N°1	<b>Modello:</b> HPD <b>Versione:</b> USA
<b>CODICE:</b> 10097024.00 (220V 3F 60Hz) 10099001.00 (220V MONO 60Hz)	<b>Rif:</b>	<b>Data:</b>
<b>Modifiche</b>	<b>Firma</b>	<b>Schema:</b> n° 5/12
<b>a</b> Aggiunta versione mono	<b>b</b> Aggiunta schema n°12	<b>Data:</b> 19/12/05 Colavitti
<b>c</b> -	<b>d</b> -	<b>Dise:</b> A.Colavitti
<b>e</b> -	<b>f</b> -	<b>Contr:</b> -
<b>CODICE CASS:</b> 13003038.00	<b>File:</b> 037_Susa.dwg	

DIAGRAM LEGEND  
A1-A7 Nr.7 - 600W BALLASTS HIGH PRESSURE



SPORTAREDDI, s.p.a. Via dell'Industria, 7 30020 GRAPPO (VE) tel. 0423/767650 - fax 767653 PROPRIETÀ RISERVATA DELLA DITTA SPORTAREDDI È vietato riprodurre o comunicare a terzi il contenuto del presente disegno		DESCRIZIONE: DIAGRAM BALLASTS BOX Nr.2 SCHEMA CASSETTA REATTORI Nr.2 REACTORENCASSETTEDIAGRAM Nr.2 ESQUEMA CAJA ALIMENTADORES NR.2 SCHEMA CASSETTE REACTEURS NR.2		Modello: HPD Versione: USA	
CODICE: 10097024.00 (220V 3F 60Hz) 100990001.00 (220V MONO 60Hz)	Rif	Modifiche	Data	Firma	
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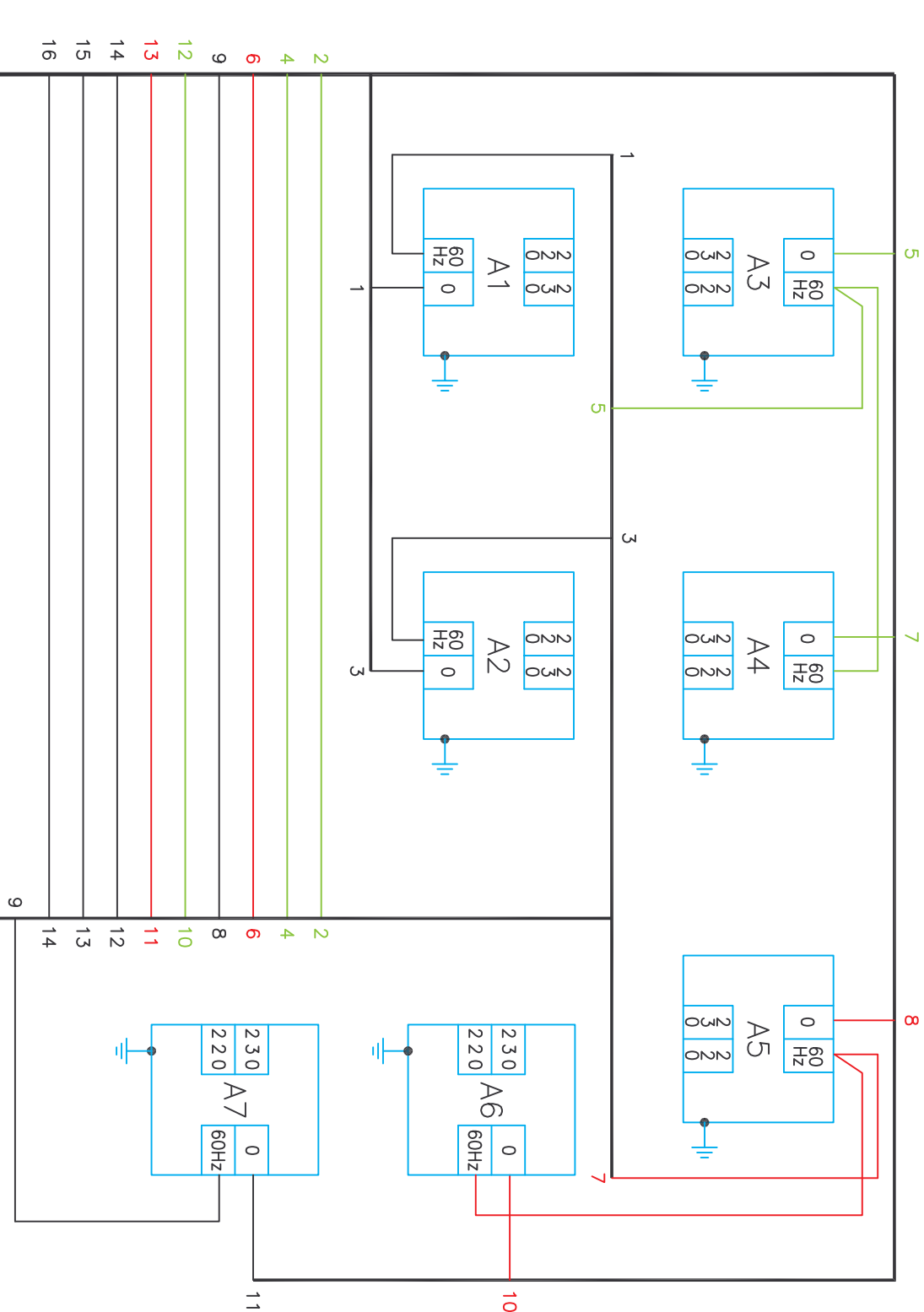


SPORTAREDD SpA Via dell'Industria, 7 30020 GRUARDO (VE) tel. 0421/767630 - fax 767635 PROPRIETÀ RISERVATA DELLA DITTA SPORTAREDD È vietato riprodurre o comunicare a terzi il contenuto del presente disegno	DESCRIZIONE: <b>DIAGRAM BALLASTS BOX Nr.3</b> <b>SCHEMA CASSETTA REATTORI Nr.3</b> <b>REATTORIMASTETIZZIAMM Nr.3</b> <b>ESOLETTA CALA ALIMENTAZIONE Nr.3</b> <b>SCHEMA CASSETTE REATTORS Nr.3</b>	Modello: <b>HPD</b> Versione: <b>USA</b>
CODICE: 10097.024.0.0 (220V 3F 60Hz) 10099.001.0.0 (220V MONO 60Hz)	Rif. <div>Modifiche</div>	Inta. <div>Firma</div>
Aggiunta versione mono	28/04/05	Colavitti
Schema: n° 7/12		

CODICE CASS.: 13003040.00	b	Aggiunto schema n°12	19/12/05	Calavitti	Data	07/06/04
	c	Verifica alimentazione contatore	28/11/06	Calavitti	Dis	ACalavitti
	d	-	-	-	Contr.	-
	e	-	-	-	File	037_7usadwg



DIAGRAM LEGEND  
A1-A7 Nr.7 – 600W BALLAST HIGH PRESSURE



SPORTAREDDI, SpA  
Via dell'Industria, 7 30020 GRAPPO (VE)  
tel. 0423/767650 - fax 767653  
PROPRIETÀ RISERVATA DELLA DITTA SPORTAREDDI  
È vietato riprodurre o comunicare a terzi  
il contenuto del presente disegno

DESCRIZIONE: DIAGRAM BALLAST'S BOX Nr.4  
SCHEMA CASSETTA REATTORI Nr.4  
REATTORIMASSETTIDIAGRAM Nr.4  
ESQUEMA CAJA ALIMENTADORES Nr.4  
SCHEMA CASSETTE REACTEURS Nr.4



CODICE: 10097024.00 (220V 3F 60Hz)  
10099001.00 (220V MONO 60Hz)

Rif. Modifiche

Data Firma

a. Aggiunta versione mono

28/04/05 Colavitti Schema: n° 8/12

b. Aggiunto schema n°12

19/12/05 Colavitti Data: 07/06/04

c. -

- - Dis: A.Colavitti

d. -

- - Contr.: -

CODICE CASS: 13003041.00

e. -

- - File: 037\_Bus.dwg



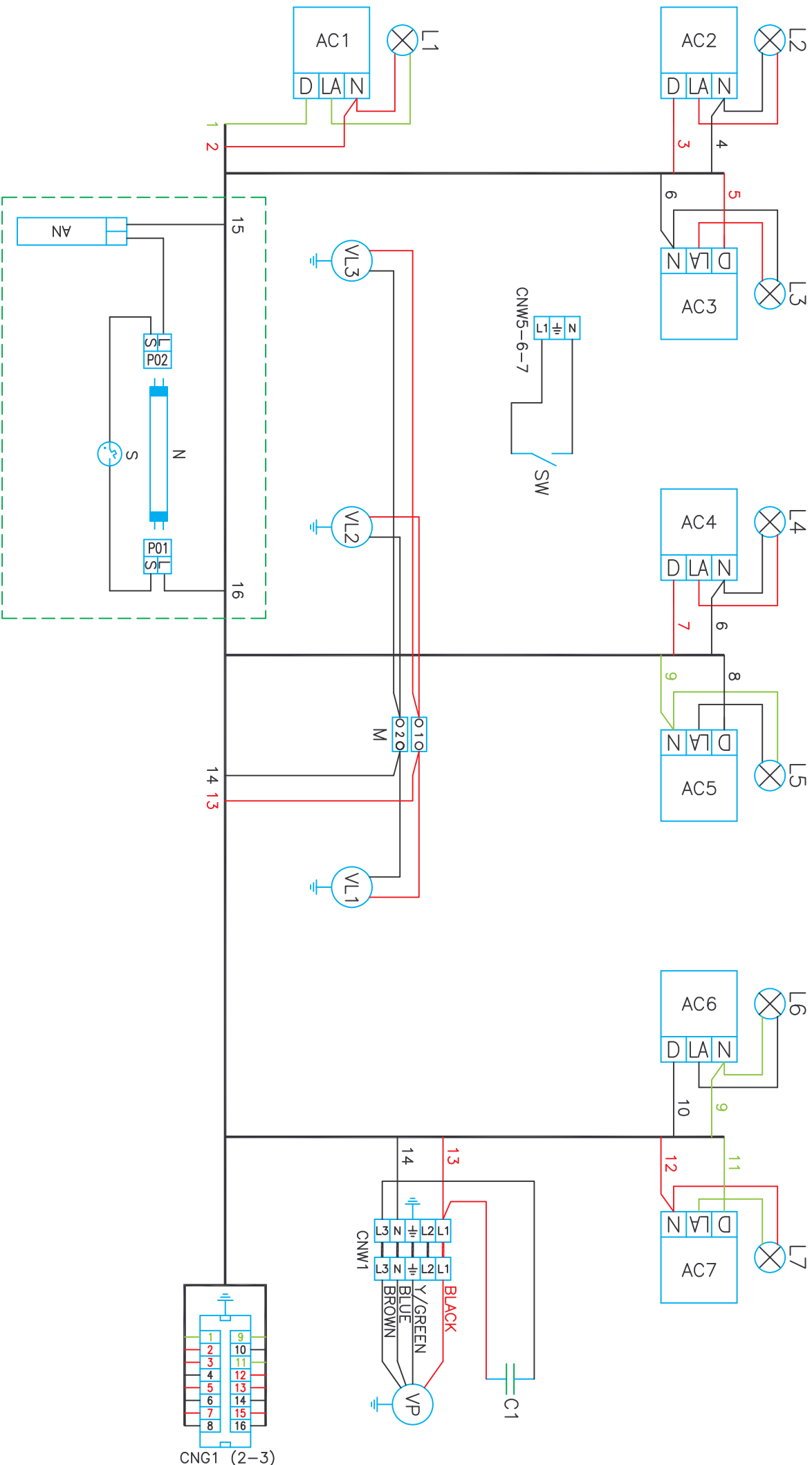
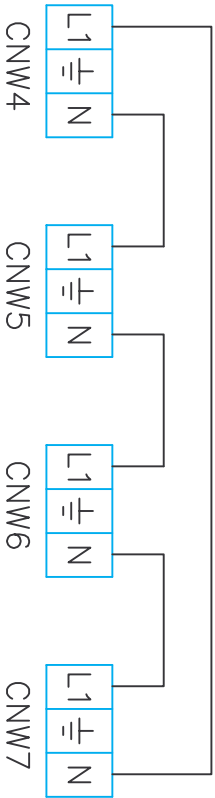
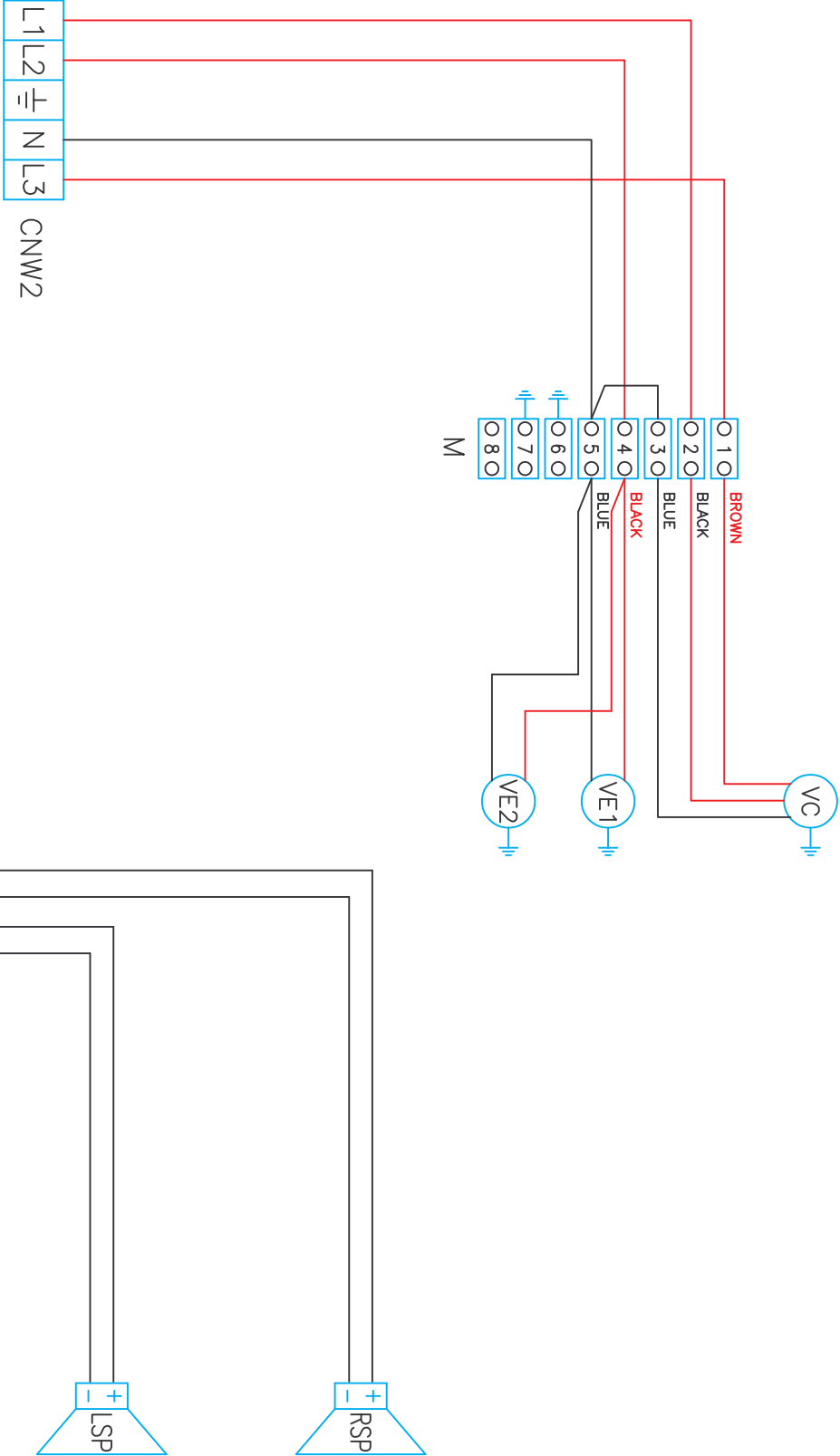


DIAGRAM LEGEND	
C1	Nr.1 – 2,5 µF CONDENSER
AC1-AC7	Nr.7 – 600W IGNITERS
L1-L7	Nr.7 – 600W HIGH PRESSURE LAMPS
N	Nr.1 – 56W LAMP
AN	Nr.1 – 56W BALLAST

SPORTAREDDI SpA Via dell'Industria, 7 30020 GRUARO (VE) tel. 0423/767650 - fax 767655 PROPRIETÀ RISERVATA DELLA DITTA SPORTAREDDI È vietato riprodurre o comunicare a terzi il contenuto del presente disegno		DESCRIZIONE: DIAGRAM OF COLUMN SCHEMA COLUMN KOLUNNEDIAGRAM ESQUEMA COLUMNA SCHEMA COLUMN		Modello: HPD Versioni: USA	
CODICE: 10097.024.00 (220V 3F 60Hz) 10099.001.00 (220V MONO 60Hz)		Rif	Modifiche	Data	Firma
		a	Aggiunta versione mono	28/04/05	Colavitti
		b	Aggiunto schema n°12	19/12/05	Colavitti
		c	-	-	-
		d	-	-	-
		e	-	-	-
CODICE CARL: 17073153.00/17073154.00					
					Schema: n° 10/12
					Data: 07/06/04
					Dls: A.Colavitti
					Contr.: -
					File: 037_10usa.dwg



SPORTAREDDI spa Via dell'Industria, 7 30020 GRUARO (VE) Tel. 0421/767650 - Fax 767653 PROPRIETÀ RISERVATA DELLA DITTA SPORTAREDDI È vietato riprodurre o comunicare a terzi il contenuto del presente disegno		DESCRIZIONE: DIAGRAM FAN CAP SCHEMA VENTILAZIONE CAPPELLO KAPUZELLEFTIONSDIAGRAM ESQUEMA VENTILACION DE LA TAPA SCHEMA VENTILATION CAPUCHON		Modello: HPD Versione: USA	
CODICE: 10097024.00 (220V 3F 60Hz) 100990001.00 (220V MONO 60Hz)		Rif	Modifiche	Data	Firma
a		Aggiunta versione mono		28/04/05	Colavitti
b		Aggiunto schema n°12		19/12/05	Colavitti
c		-		-	-
d		-		-	-
e		-		-	-
CODICE CABL./CASS:				file:	037_illusadwg

FUSE n°	A	PROTECTION
F	2,5 delay	VOCAL BOARD
1	12 delay	LAMP N°1 1500W FACE COLUMN n°1
2	12 delay	LAMP N°2 1500W FACE COLUMN n°1
3	12 delay	LAMP N°3 1500W FACE COLUMN n°1 AND LAMP N°1 600W COLUMN n°2
4	12 delay	LAMP N°4 1500W FACE COLUMN n°1 AND LAMP N°2 600W COLUMN n°2
5	12 delay	LAMP N°5 1500W FACE COLUMN n°1 AND LAMP N°7 600W COLUMN n°2
6	12 delay	LAMP N°6-7 600W FACE COLUMN n°1
7	12 delay	LAMP N°3-4 600W COLUMN n°2
8	12 delay	LAMP N°5-6 600W COLUMN n°2
9	12 delay	LAMP N°1-2 600W COLUMN n°3
10	12 delay	LAMP N°3-4 600W COLUMN n°3
11	12 delay	LAMP N°5-6 600W COLUMN n°3
12	12 delay	LAMP N°7 600W COLUMN n°3 LAMP N°7 600W COLUMN n°4
13	12 delay	LAMP N°1-2 600W COLUMN n°4
14	12 delay	LAMP N°3-4 600W COLUMN n°4
15	12 delay	LAMP N°5-6 600W COLUMN n°4
16	12 delay	VENTILATOR AND COMAND
17	6,3 delay	ILLUMINATION COLUMN AND ALIMENTATOR 12Vdc

CONNECTOR A	POSITION (A) ← →		POSITION (B)	CONNECTOR B
CNRV	CASSETTA COMANDI		CASSETTA REATTORI VISO N°1	CNRV
CNR1	CASSETTA COMANDI		CASSETTA REATTORI N°2	CNR1
CNC	CASSETTA COMANDI		COLONNA AUTORADIO	CNC
CNGV	CASSETTA REATTORI VISO N°1		COLONNA VISO N°1	CNGV
CNR2	COLONNA AUTORADIO		CASSETTA REATTORI N°3	CNR2
CNR3	COLONNA AUTORADIO		CASSETTA REATTORI N°4	CNR3
CNG1	CASSETTA REATTORI N°2		COLONNA N°2	CNG1
CNG2	CASSETTA REATTORI N°3		COLONNA N°3	CNG2
CNG3	CASSETTA REATTORI N°4		COLONNA N°4	CNG3
CNW1	CASSETTA COMANDI		COLONNA RADIO	CNW1
CNW	CASSETTA COMANDI		GETTONIERA	CNW
CN4M	CASSETTA COMANDI		COLONNA RADIO	CN4F
CN8M	CASSETTA COMANDI		COLONNA RADIO	CN8F
CNW3	CASSETTA REATTORI VISO N°1		COLONNA VISO	CNW3
CNW4	COLONNA VISO		CAPELLO	CNW4
CNW5	COLONNA N°1		CAPELLO	CNW5
CNW6	COLONNA N°2		CAPELLO	CNW6
CNW7	COLONNA N°3		CAPELLO	CNW7
CNW2	COLONNA VISO		CAPELLO	CNW2

SPORTAREDDI SpA Via dell'Industria, 7 30020 GRAPPO (VE) tel. 0423/767630 - fax 767635 PROPRIETÀ RISERVATA DELLA DITTA SPORTAREDDI È vietato riprodurre o comunicare a terzi il contenuto del presente disegno		DESCRIZIONE: SCHEMA FUSIBILI E CONNETTORI FUSES AND CONNECTOR DIAGRAM SCHMELZ UND VERBINDER DIAGRAM SCHEMA FUSIBLES ET CONNECTEUR ESQUEMA FUSIBLES Y CONECTORES		Modello: HPD Versione: USA	
CODICE: 10097.024.0.0 (220V 3F 60Hz)	Rif.	Modifiche	Data	Firma	Schema: n° 12/12
10099.001.0.0 (220V MONO 60Hz)	a	Aggiunto schema n°12	19/12/05	Colavitti	Data: 13/09/05
	b	-	-	-	Dise: A.Colavitti
	c	-	-	-	Contr.: -
	d	-	-	-	
	e	-	-	-	File: 037_12usa.dwg
CODICE CABL./CASS.:					