

ASSEMBLY & OPERATING MANUAL

Diva Collection DV5



SonnenBräune

SonnenBräune, Inc.
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Ringgold, Georgia 30736 USA
800-829-6533
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> WARNING LABEL - PLEASE READ

Located on tanning bed canopy -
Please read important safety information
relating to the proper operation of this
equipment.

DANGER: ULTRAVIOLET RADIATION, FOLLOW INSTRUCTIONS, AVOID OVER EXPOSURE, AS WITH NATURAL SUNLIGHT, OVEREXPOSURE CAN CAUSE EYE AND SKIN INJURY AND ALLERGIC REACTION. REPEATED EXPOSURE MAY CAUSE PREMATURE AGING OF THE SKIN AND SKIN CANCER.

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

CAUTION! EXPOSURE POSITIONS OTHER THAN SPECIFIED CAN BE HARMFUL AND ARE NOT RECOMMENDED

THIS PRODUCT IS IN CONFORMITY WITH PERFORMANCE STANDARDS FOR SUNLAMP PRODUCTS UNDER NO. 21 CFR SUBCHAPTER J.

MEDICATION OR COSMETICS MAY INCREASE YOUR SENSITIVITY TO THE ULTRAVIOLET RADIATION. CONSULT PHYSICIAN BEFORE USING SUNLAMP 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 THE USE OF THIS PRODUCT.

SKIN TYPE	RECOMMENDED EXPOSURE SCHEDULE:				
	WEEK 1 SESSIONS 1-3	WEEK 2 SESSIONS 4-6	WEEK 3 SESSIONS 7-10	WEEK 4 SESSIONS 11-15	BI-WEEKLY MAINTENANCE SESSIONS
II FAIR	2 MIN.	4 MIN.	6 MIN.	8 MIN.	10 MIN.
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IV DARK	4 MIN.	8 MIN.	10 MIN.	12 MIN.	12 MIN.
V VERY DARK	4 MIN.	8 MIN.	10 MIN.	12 MIN.	12 MIN.

MAXIMUM USE TIME: 12 MINUTES

IN MOST CASES, TANNING WILL APPEAR WITHIN SIX HOURS OF THE FIRST APPLICATION, PROVIDED YOUR SKIN IS CAPABLE OF DEVELOPING A TAN. A MOISTURIZER MAYBE USED AFTER EACH TANNING SESSION. THIS SYSTEM IS INTENDED TO BE USED ONLY WITH THE WOLFF SYSTEM BODYSCAN XXR F71R160W BIPIN OR COSMOLUX VHR 16180/160W BIPIN AND HERAEUS BQ771Z4 700W

THIS DEVICE IS INTENDED TO BE USED BY ONE PERSON AT A TIME. YOU MAY LIE DIRECTLY ON TANNING SURFACE.

THE MINIMUM EXPOSURE POSITION IS 0.5 IN. (1.27CM) FROM THE LAMP'S SURFACE (PRESET BY THE MANUFACTURER). READ THE INSTRUCTION BOOKLET BEFORE USING THIS DEVICE.

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 SKIN RARELY BURNS, TANS EASILY AND SUBSTANTIALLY.

FOR PARTS AND SERVICE CALL:
SonnenBräune, Inc.
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1-800-829-6533

DV5

CONTENTS FOR ASSEMBLY AND OPERATION:

2	WARNING LABEL - PLEASE READ
4	WELCOME
5	TECHNICAL DATA
6	GENERAL INDICATIONS
7	INSTALLATION OF UNIT
8	SAFETY INSTRUCTIONS FOR OPERATION
9	HEALTH DANGERS
10	RECOMMENDED EXPOSURE TIMES
11	FACIAL TANNER EXPOSURE & INFORMATION
12	OPERATION OF CONTROL PANEL ON UNIT
14	CLEANING AND MAINTENANCE
15	FACIAL TANNERS
16	REPLACING LAMPS
17	FILTER MATS AND AIR/EXHAUST SYSTEMS
18	ILLUMINATION LAMPS & CANOPY DRIVE
19	SERVICE MODE & CODE SWITCHES
20	TROUBLESHOOTING
23	WIRING DIAGRAMS



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Congratulations on the purchase of your SonnenBräune tanning bed. Your new Diva Collection DV5 is one of the finest crafted, most dependable and highly profitable beds available on the market today. We pride ourselves not only on the high standards we uphold in the design and development of these beds, but also on the quality control and customer service we offer in production and throughout installation and operation.

Of course, you purchased this bed because you have faith in our product and what it can do for your salon. Your new DV5 tanning bed was developed to make your salon more profitable. Paired with your salon's advertising and promotion, this bed can help you bring in more customers by offering professional SonnenBräune features, and increasing your sessions with incredibly fast tan times.

And, no matter where you are in the world, there is a SonnenBräune distributor to serve you. Our worldwide network was developed to serve the global demand for our product. So if you ever have a question regarding your SonnenBräune tanning bed, feel free to call your personal distributor, or contact SonnenBräune by phone or through the internet at sales@sonnenbraune.com. You can also visit our web site for more information about the entire line of SonnenBräune products and the latest innovations at www.sonnenbraune.com.

Thanks for purchasing your SonnenBräune bed... The Solar System beyond.



Packing List

- 1 x Plastic DivaLite panel
- 1 x Cushion and pair of sunglasses
- 1 x Accessory bag with screws
- 1 x Assembly and operating instructions with circuit diagram
- 1 x Packing docket


Product Specifications & Technical Data

DV5 by SonnenBräune	Specifications
Unit Color / DivaLite Panels	Silver Ice / Blue
Reflector tubes in canopy (#/watts)	28 @ 160W
Reflector tubes in bench (#/watts)	17 @ 160W
Facial tanners in canopy (#/watts)	4 @ 700W
Light-lift canopy enabled	Soundless, fingertip operation of canopy
Electrical supply required	220/230 3 phase
Approximate power in watts	12,750W
Recommended breaker rating	50 amps
Solarium tan time	12 minutes
Filtered air conditioning system	Standard
Air system cooling power	12,000 btu's
Micro-dust filtration	Standard - easily accessible filters
Heat release exhaust system	2060cfm
DivaLite panel features	Backlit canopy panel / etched bench logo
Customer tanning controls	touchTronic® control panel
Session Solarium Timer	SonnenBräune remote digital timer
On-board Diagnostic Computer	Computer equipped / information, functions, service
Interior vista lighting	2 canopy length tubes
Electrical component access	hydraulic assisted for easy service
Optimal tan surface	72.5" x 30" - hinged double acrylic
Assembled appliance measurements	90.6"L x 51.2"W x 63"H
Approximate ship weight in lbs.	1600 lbs.
Appliance construction	Steel
Certification Code	ETL
Suggested minimum solarium room size	10' x 10'

> PLEASE READ

These instructions provide important safety directions and information necessary for the correct disassemble or assemble this unit. Please read the following instructions completely and carefully.

For Your Safety During Disassembly / Assembly

- Danger of injury by sharp edges. Be sure to wear safety shoes and gloves when assembling the unit.
- Danger of electrocution. Never take the safety equipment out of operation.
Never bypass the safety equipment. Ineffective safety equipment could cause harm.
- Work on the electrical supply may only be performed by qualified electricians.
This work must be performed in compliance with electrical rules and regulations.
- Use only original fuses with the specified voltage and current ratings.
- When installing the unit, ensure that the color codings of the plugs and sockets match.
- The voltage of the power source must conform to the specifications of SonnenBräune, Inc.
- Do not put the unit into operation if the power lead or the unit is damaged.
- Protect the cables against heat and moisture.



Transport Damage

Check that the unit has been delivered in an good, undamaged condition immediately upon arrival of shipment. Inform the delivery service of any transport damage or missing items. Compare the delivered parts with the packing list. If there is damage, the damage report should be made immediately, at least within four days of delivery. The notification period begins on the date of delivery. For easier clarification, damage should be photographed.

Notes on Transport Before Assembly

- When transporting, loading or unloading the unit, special care and consideration is necessary. Never use force.
- Do not transport the unit in a fully assembled condition.
- Only remove the packing material and the transport braces at the final location.
- Replace damaged or worn parts.
- Use only original parts.

Installation Site

- Place the unit in a dry room protected against water spray and drops.
The air humidity must not exceed 70% at the maximum permissible room temperature of 82.4° F
- The ceiling of the room in which you intend to install the unit must be open for ventilation.
- Always ensure sufficient air circulation in the room and it meets the suggested size requirements.

Intended Use

The tanning unit is intended exclusively for cosmetic tanning of the human skin. Other use is not intended. The manufacturer will not accept liability for damages caused by misuse.

The intended use includes:

- The observation of all notes in the disassembly / assembly and operating instructions.
- Compliance with the specified cleaning and maintenance work.

INSTALLATION OF YOUR UNIT

Unpack unit.

Please read the following instructions carefully before proceeding.



Figure 1

Instructions:

- Screw in the 8 hexagon head screws (M6) into the left side panel. (see Figure 1)
- Hook the left side panel on the left side of the basic frame.
- Mount the right side panel on to the right side of basic frame. (see Figure 2)
- Hook the side panels right and left into the back plate.
- Attach the side panels with the countersunk-head screws M6x8. (see Figure 3)
- Attach the side panel angle inside on right and left of side panels. Use the 25 cheese-head screws (M4).



Figure 2

Connect power supply and Remote Digital Timer.

Note the switch - connected at the timer cable - simulates the ON/OFF function of an external timer.

- Test unit.

**ATTACH WITH
SCREWS**



Figure 3

**COUNTERSUNK
SCREW**



Figure 4

>Operating Instructions

This unit complies with the accepted rules of technology and the pertaining ETL safety regulations.

This unit is screened in compliance with the EMT guidelines (electromagnetic tolerance).

SAFETY DIRECTIONS

Observe the safety directions in the assembly instructions.



General Dangers

- Never allow unsupervised children to use the unit.
- Use the unit only when it has no visible deficiencies.
- Use the unit only when all safety and protective devices such as facial glass is installed and in order.
- Materials which fade in sunlight (e.g. paintings) should not be exposed to the UV light of this unit.



Danger of Overheating

- This unit can overheat if adequate cool air is not supplied.

Never cover the ventilation slots or hot air outlet openings of the cooler fan. If the fan fails, switch off the unit immediately.

Danger of Burns

- Elements of the unit get hot! Never touch the facial glass or lamps during tanning.
- The unit must fully cool before cleaning or maintenance work is done.

CAUTION!

Do not operate this equipment without all Guards, End-caps, Filters, Front Panel, etc. installed on unit. Doing so can cause **serious damage** to your tanning bed!

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IV DARK	4 MIN.	8 MIN.	10 MIN.	12 MIN.	12 MIN.	12 MIN.
V VERY DARK	4 MIN.	8 MIN.	10 MIN.	12 MIN.	12 MIN.	12 MIN.

MAXIMUM USE TIME: 12 MINUTES

IN MOST CASES, TANNING WILL APPEAR WITHIN SIX HOURS OF THE FIRST APPLICATION, PROVIDED YOUR SKIN IS CAPABLE OF DEVELOPING A TAN. A MOISTURIZER MAY BE USED AFTER EACH TANNING SESSION. THIS SYSTEM IS INTENDED TO BE USED ONLY WITH THE WOLFF SYSTEM BODYSCAN XXR F71/R160W BIPIN OR COSMOLUX VHR 16180/160W BIPIN AND HERAEUS BG77124 700W

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Health Dangers

- It is essential that you do not exceed the initial and maximum tanning times specified on page 14.

Attention: the tanning times are based on the skin type (see table of tanning times).

- If you have a skin disorder, consult your doctor prior to tanning.
- Do not use UV radiation units if you have an abnormal skin reaction caused by intensive sunlight.
- If irritations or blisters appear on the skin after tanning, consult your doctor.
- Persons with pacemakers should consult their doctor to determine whether exposure to radiation in UV radiation is harmless to them.
- Protect your eyes. Always use suitable eye protection during tanning. Close your eyes during tanning. Unprotected eyes can develop surface irritations. Excessive radiation can damage the retina or lead to loss of sight.
- Do not use sunscreen. Modern tanning units emit mainly UVA radiation. Sunscreens protect the skin against UVB radiation only. UVB radiation causes sunburn 100-1000 times more severe than UVA radiation.
- Remove cosmetics applied to the skin several hours before tanning.

UV Radiation and Drug Interactions

- Medicines which seriously increase UV sensitivity are antibiotics, psychopharmaceuticals, diuretics, etc. Persons taking these types of drugs have a lower threshold for tanning, phototoxic and photoallergene skin reactions. Consult your physician prior to using a tanning bed.

Examples of Medicines Which Can Cause Increased Sensitivity to UVRadiation

(phototoxic and photoallergene reactions):

> External Applications (brand names)

- Dermatics
- Antimykotiks (Multifungin)
- Photochemotherapeutics (Meladinin)

> Internal Applications (brand names)

- Antidiabetics (Euglucon, Rastinon)
- Chemotherapeutics
- Antibiotics (Tarivid, Ciprobav, Nogram)
- Antimalaria agents / antirheumatics (Resochin)
- Antimalarial agents (Lariam)
- Neuroleptics / antihistamines (Atosil, Neurocil, Psyquil, melleril, Taxilan)
- Diuretics (Esidrix, DytideH, Moduretik)
- Antihistamines (Soventol)
- Antitussives (Benadryl)



Observe the safety directions in the assembly instructions.

General Dangers

- Never allow unsupervised children to use the unit.
- Use the unit only when it has no visible deficiencies.
- Use the unit only when all safety and protective devices such as filter plates are installed and in order.
- Materials which fade in sunlight (e.g. paintings) should not be exposed to the UV light of this unit.

>Operating Instructions

The tanning units are equipped with special UV radiation lamps which generate little UVB radiation for the development of pigments and a high proportion of mild UVA tanning radiation.

- The skin is tanned inside the shortest possible time by the optimum composition of the radiation and the danger of sunburn is avoided.
- Apart from the cosmetic effect of the tanned skin, healthy vitamin D3 is created by moderate tanning. This can have a healing effect on metabolic disorders, rachitis and colds. Furthermore, a favorable effect can be achieved against skin diseases such as acne or seborrhoea.
- The optimum properties of the tanning units can only be achieved when the user possesses the normal conditions for tanning.
- After tanning, it is advisable to use a skin lotion.
- The thickness of the skin is not equal on all parts of the body. This results in differing light sensitivity. In the region of thin parts of the skin (e.g. the female breast), the tanning time should be reduced or sensitive parts of the skin should be covered when a part of the tanning period has expired.
- The attainment of an optimum tan depends on the skin type. This requires a tanning series of five to 10 sessions. Approximately two sessions per week are sufficient to maintain the achieved tan.
- If the skin reacts sensitively (skin tension), you should reduce the tanning period or temporarily interrupt a tanning session.
- In cases of insomnia, the sessions should be taken in the mornings.
- Overly excessive UV sessions in sunlight or with UV units can cause damage to the skin or eyes.
- The skin can become sunburnt after excessive exposure to radiation. Excessive UV sessions in sunlight or with UV units can lead to premature aging of the skin and to an increased risk of skin tumors.

Skin Types

The human skin reacts differently to exposure to UV light depending on the skin type. The recommended tanning times specified in the table are not generally applicable, but depend on the skin type. To find the correct tanning time for you (see table of tanning times), choose the appropriate skin type for yourself.

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 skin rarely burns, tans easily and substantially.

RECOMMENDED EXPOSURE SCHEDULE: DV5					
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MAXIMUM USE TIME: 12 MINUTES					

This exposure schedule provides information on tanning times, depending on the skin type and specific unit.

- Do not exceed the specified tanning times.
- In the first 50 to 80 hours of operation, the unit generates approximately 20% higher power. Reduce the session times specified in the table by approximately 20%.
- The interval between two sessions should be at least 48 hours.
- Avoid additional sunbathing on the days of the sessions.

Facial Tanner

The Facial Tanner is equipped with a higher radiating power than the other lamps. This attains a more intensive tanning of the facial skin.



SAFETY WARNINGS: DV5 FACIAL TANNER

Danger of injury by intensive radiation and high brightness. Never look into the lamps during operation. Use the UV blocking eyewear provided.

Danger of skin injury by excessively long tanning.
The maximum tanning time is specified in the table of tanning times.

The filter glass of the tanning bed becomes hot. Avoid all contact during tanning. Never tan without facial glass. If the tanning unit has visible deficiencies (e.g. filter or timer defective), the unit must not be put into operation.

The tanning times specified in the tables are recommended tanning times and apply only to the lamp types listed in the tables.

Danger of Burns. Observe the lamps with which your unit is equipped. If tanning lamps of other manufacturers or tanning lamps with higher ratings are used, skin injuries can be caused. The specified tanning times in the tables are then no longer valid.

Danger of skin injuries by excessively frequent sessions.

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THIS SYSTEM IS INTENDED TO BE USED ONLY WITH THE WOLFF SYSTEM BODYSCAN-XXR® F71 BIPIN 160W OR COSMOLUX VHR NA1-15-160W® AND HERAEUS BQ771Z4 700W FACIAL LAMPS. (see actual label)

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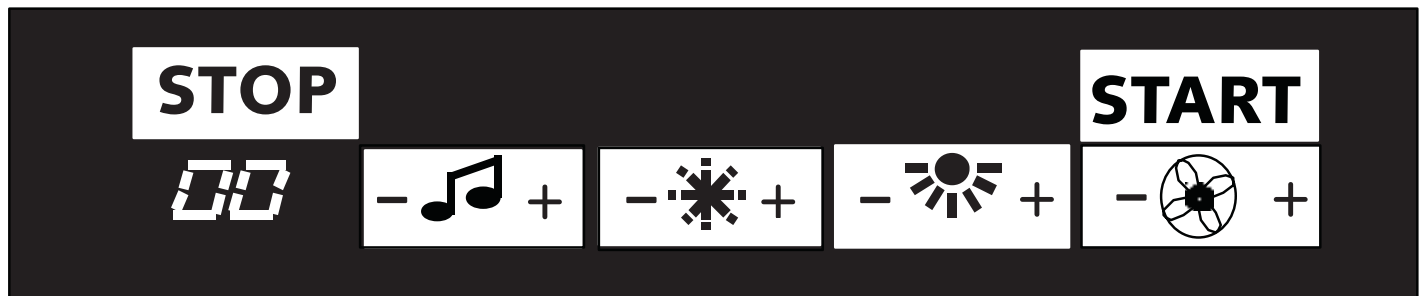
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Ringgold GA
1-800-829-6533

DV5

OPERATION OF UNIT:

Unit is installed with a SonnenBräune Remote Digital Timer. Once tanning unit has been initiated, the control panel inside can be used to control on/off, fans, facial tanner and air conditioning. This display also shows session time. Input from control panel is confirmed by a beep sound.

**touchTronic® Control Panel****Tanning Bed Control Panel Display****START**

- Press start to turn on unit lamps.

**LED Display**

- While tanning session is in progress, the run time is indicated on the LED display at left. This display also shows error messages. See "Troubleshooting" section.

**Body Fan**

- The body fan can be increased or decreased by pressing the plus (+) or minus (–) symbol. The current setting is shown using numbers between 20 (minimum) and 99 (maximum).
- In order to turn body fan off completely, press (–) symbol until the number 20 display and hold for 2-3 seconds until the display then show 00. Touch the (+) symbol to reactivate body fan.
- In addition, you can select Body Fan "ON" or "OFF" when starting the tanning session or after while the fan is running to cool unit. In order to use this ON/OFF, press the fields "Facial Tanner +" and "Facial Tanner –" or "Music +" and "Music –" simultaneously for at least 2 seconds while the program is not running. Number 77 on display confirms "ON" and 22 indicates body fan is "OFF". The setting will be stored and is not influenced by subsequent tanning procedures.

Basic Setting Body Fan "OFF"

After the start of the unit the body fan remains OFF. However, customers can switch fan ON and continually adjust the fan during the session by touching the (+). To cool unit after session, the body fan is automatically switched off.

Basic Setting Body Fan "ON"

The body fan output amounts to approximately 45% when it starts operating as a default setting. Again, the customer can choose to continually adjust the output higher or lower. To cool unit after session, the body fan is automatically switched off.



Facial Tanners

- Once the tanning program has been started, the facial tanners are automatically switched to the maximum level. Using the (–) symbol, the facial output level can be reduced by one step.
- The facial tanners are switched off completely by pressing the (–) symbol and holding for at least 3 seconds.
- By touching the (+) symbol, the facial tanners will be turned ON again. Please note, once facial tanners have been turned OFF, they can not be reactivated again for 3 minutes. By pressing the (+) symbol during those 3 minutes, the facial tanners will automatically resume automatically when time has elapsed.
- When the (+) or (–) is pressed, the output level will show in the LED display.



Air Conditioning

- During a session, the air conditioning can be turned ON and OFF. After having switched the unit off, it cannot be switched on again for 4 minutes due to the functions and requirements of the air unit. By pressing the (+) symbol during those 4 minutes, the air will automatically resume automatically when time has elapsed.

- The air conditioning can be switched OFF permanently (Winter Mode) if desired as follows:

Unit must not be operated in service mode for this setting. Press the fields “Air Condition +” and

“Air Condition –” simultaneously for at least 2 seconds to block air. Number 00 on display confirms “OFF”. The setting will be stored and is not influenced by subsequent tanning procedures. Press the fields “Air Condition +” and “Air Condition –” simultaneously again to turn back ON. Number 88 indicates air is “ON”.

Note, after a power failure, the unit is automatically reset to “Summer Mode”.



Sound-Flex Feature

- If equipped with an audio system, the volume of speakers can be adjusted with this display function.

STOP

- Termination of session that overrides the automatic digital timer. (Fans continue to run for another 3 minutes)
- The LED session timer display will reset when session is terminated indicated by the number 01. By pressing the Start button again, the remaining session time can be resumed. (Facial tanners will start after a short delay.)

Turning on the Divalite Panel on Outside of Bed:

The SonnenBräune Divalite Panels that decorate the outside of the bed can be turned on as follows:

- Press the fields “Body Fan +” and “Body Fan –” simultaneously will make the Divalite Panels illuminate ON.

Unit must not be operated in service mode for this setting.

- The setting will be stored and is not influenced by subsequent tanning procedures. Press the fields “Body Fan +” and “Body Fan –” simultaneously again to turn back OFF.



SAFETY WARNINGS: DURING MAINTENANCE & CARE

- Danger of electrocution. Always disconnect the main power before beginning maintenance work.
- Danger of burns. Elements of the unit become hot. Allow the unit to cool completely before maintenance work.
- Material Damage. If parts made by other manufacturers are used, this can influence the performance and functions of the unit.
- Never use normal florescent lamps in the unit.
- Use only original spare parts.
- Information on the lamps. The tanning lamps can have different shades of color. After long operation, dark spots can occur at the ends of the lamps. This has no effect of the performance and life of the lamp.

Cleaning the Acrylic in the Canopy

Clean the acrylic with a damp cloth and use only recommended cleaners.

- Undo screws (see Figure 5) and tilt the acrylic downward. Always protect the acrylic by cushioning it when laying down on base surface.
- Clean the acrylic from both sides and replace it in the reverse order making sure the frame stays correctly positioned in its hinge.
- The complete framework, when in lowered position can be lifted out of hinge support for servicing.

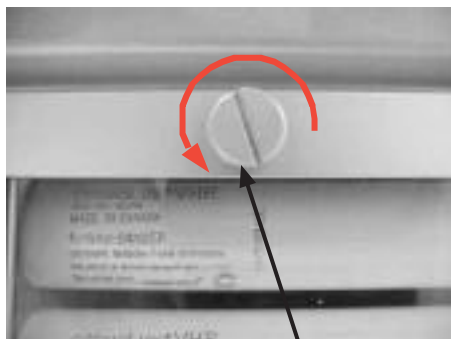


Figure 5

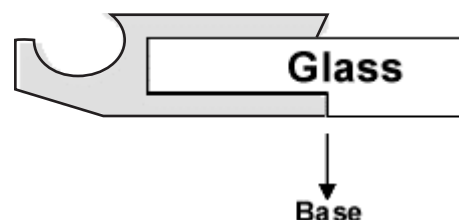
**CANOPY
ACRYLIC
SCREW**



Figure 6



Figure 7



Cleaning the Bench Acrylic

Do not let any cleaner or liquid leak through base surface to components when cleaning!

- Undo the screws of the front beam and open it by pulling it in forward direction (see Figure 6).
- Remove lateral covering (see Figure 7). This enables you to tilt the base pane upwards.
- In order to remove the acrylic, pull it out of rear sectional beam.
- Replace the acrylic by reversing order of these instructions.

Make sure that the bead of the acrylic points in the direction of the base section.



SAFETY WARNINGS: FACIAL TANNERS

• Facial tanners are equipped with an additional safety function. There is a cutout switch that turns OFF the tanner in case of a missing or broken filter glass. **Never use system with a defective filter glass.** Only replace with certified SonnenBräune original parts. Replacement should be done by a trained SonnenBräune technician.

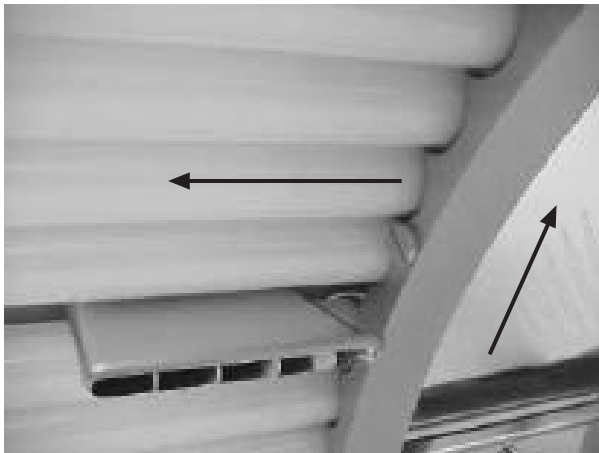
Facial Filter Glass in Canopy

Clean with a damp cloth and use only recommended cleaners.

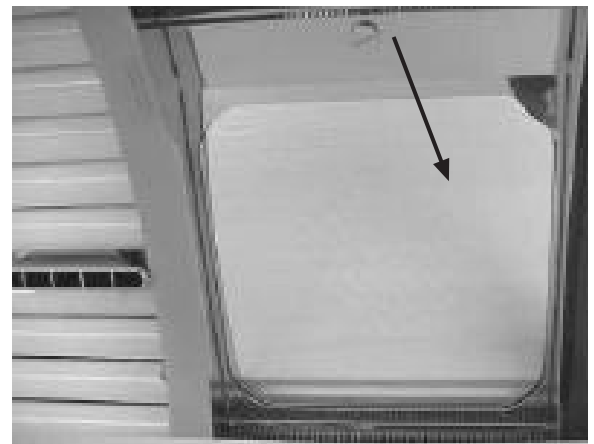
- Undo screws and tilt the acrylic downward.
- Undo screws attaching the lamp covering in the facial area to remove.
- Undo the retaining screw of the lower filter glass frame and hold while doing so.
Tilt down and lift it out.
- The front frame can also be opened in same manner.

Facial Filter Glass in Lateral Part

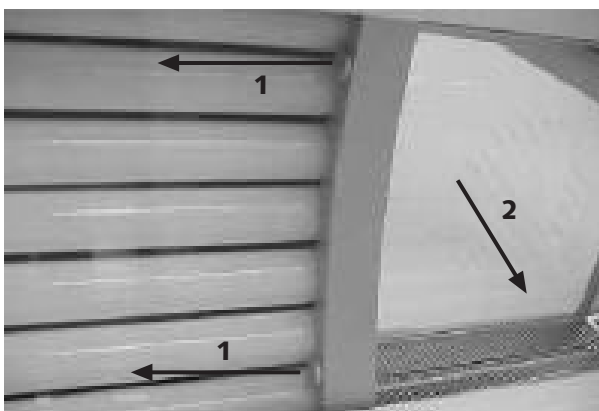
- Remove acrylic.
- Undo screws attaching the lamp covering in the lateral facial area to remove.
- Undo the retaining screw of the lower filter glass frame and hold while doing so.
Lift the frame and swing it forwards.



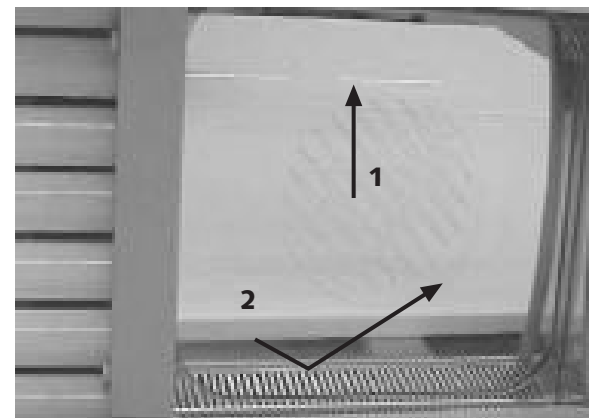
Dismantling the lamp cover in canopy



Removing the filter glass frame



Dismantling the lamp cover in lateral part



Removing the filter glass frame in lateral part

DV5 TANNING LAMPS

Original Spare Parts - Only use these recommended lamps for replacement

BENCH:	BodyScan-XXR®	160W	Quantity: 28
CANOPY:	BodyScan-XXR®	160W	Quantity: 17
	(Optional: CosmoLux VHR NA1-15160W)		
FACIALS:	Heraeus BQ771Z4	700W	Quantity: 4



WARNING! Do not attempt to replace lamps until the unit has completely cooled. Lamps can become very hot resulting in serious burns if touched before cooling.

Replacing Tanning Lamps

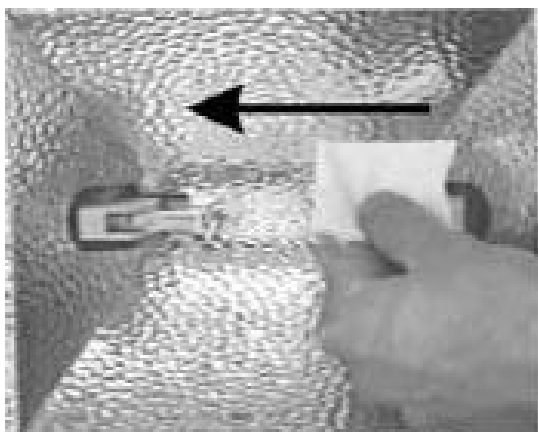
- Follow instructions for opening acrylics on page 14; remove from frames completely.
- Remove the lamp covers between body area and facial area as explained on page 15.
- You will have full access to lamps now for cleaning, maintenance or replacement.
- It is recommended that the lamps be wiped clean after approximately every 200 hours of use to maintain maximum tanning performance.
- Follow the suggested lamp life hour rating to determine replacement time to maintain session tan times outlined for this unit.

Replacing Facial Lamps

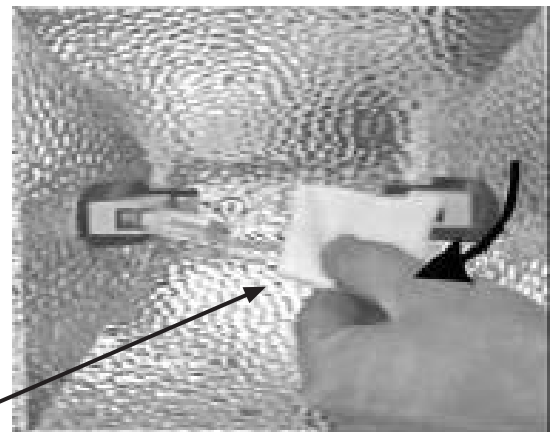
- Follow instructions for opening facial filter glass on page 15.
- Hold the lamp with a soft cloth and pull out towards the front.

Do not touch the glass or reflective surface with your bare hands!

- If necessary, clean the surface with an alcohol-based cleaner.
- Be sure to keep this area clean and carefully position lamps to avoid damage to lamps or sockets.
- Insert lamp in a strait manner into socket for proper contact.



**PULL LAMP
TOWARD
FRONT**





**REPLACING
FILTER MAT**

Filter Mats

The cooling system in this unit utilizes air drawn through two dust filters to reduce particles. Clean filters are a must to maintain that the system works correctly. It is recommended that the filters be replaced approximately every 100 hours of use.

- Only use original replacement filters in this unit.
- Each time the lamps are replaced, check the heat exchangers of the air conditioning unit for dirt which can considerably reduce the air capacity. Vacuum clean if necessary. Clean filters will greatly aid in keeping the air conditioning unit in peak performance.

Replacing Canopy Filter Mats

- Reach underneath the filter mat at one end of the grip edge and pull the mat out carefully.
- Replace mat by inserting end of new one into the grip edge and work way across entire length keeping mat flat.

Replacing Base Filter Mats

- Locate filter in the lower front area and repeat same process as canopy filter replacement.

Air Conditioning Unit

- Check the heat exchangers of the air conditioning unit for signs of dirt each time the lamps are replaced.
- Vacuum as necessary.
- See instructions on page 14 for accessing air conditioner.

Exhaust Air System

This system needs to be checked and maintained to prevent unit damage from overheating.

Open the base (page 14) and check the following points regularly:

- The exhaust air hoses must not be kinked or obstructed and must extract air properly.
- The filter mats must be clean and installed properly.
- The maximum hose length of 6 meters must not be exceeded unless an additional fan is installed.
- Adequate ventilation and air extraction must be maintained at all times.

Condensation Pump

- Check the functions of the pump each time the lamps are replaced.
- After accessing pump, slowly fill the tank in the air conditioning unit with water.
- Ensure that the water is pumped out when the tank is approximately half full.

The mains voltage must be connected to perform this test.

- See instructions on page 14 for accessing pump.

Regular service, maintenance, and cleaning will help ensure maximum tanning performance and trouble-free operation over the life of this unit.

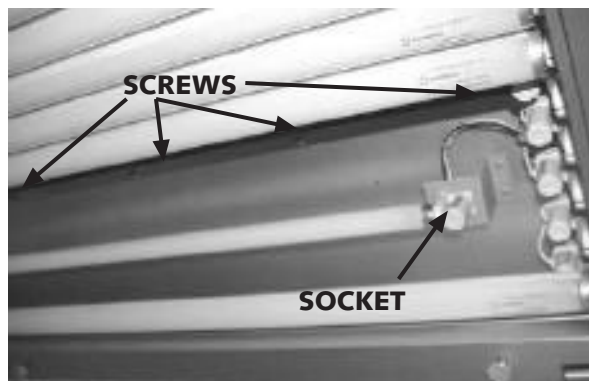


Figure 9

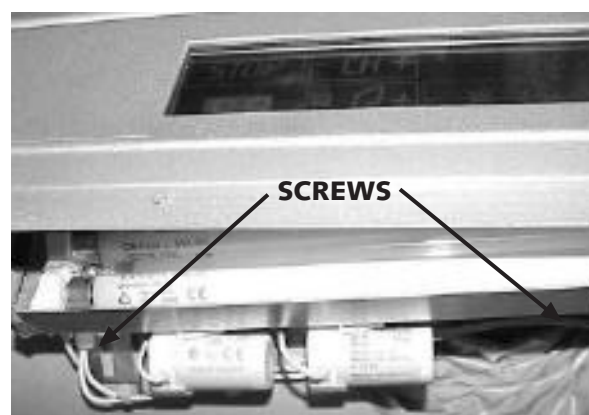


Figure 10



**BASE OPENED
FULLY TO
ACCESS
COMPONENTS**

Illumination After Use and Control Panel

The illumination lamps in canopy and rear part can be replaced once the tanning lamps are removed.

- Replace insert lamp by removing the illumination lamp in canopy first. Disengage both sockets of the lamp from holders. Undo screws of both plates behind the illumination lamp. Pull the plates out in order to access the insert lamp. (Figure 9)
- Loosen both screws of the lighting holder on the underside of the control panel (Figure 10). Guide the holder downwards allowing access to replace the two 8W lamps.
- Push the complete lighting holder towards the control panel as closely as possible and screw it on.
- To replace the front lighting lamp, undo the three screws on the upper part of the front panel and lift the front panel towards the front.

Canopy Drive / Spring Ropes

For trouble-free operation, it is a good idea to check and service the spring ropes each time you replace lamps. The base will have to be opened to do this.

Opening Base

- Open the base acrylic as instructed on page 14.
- Remove the ducting pane as well as the lamps from the base section.
- Remove the covering plates underneath the lamps.

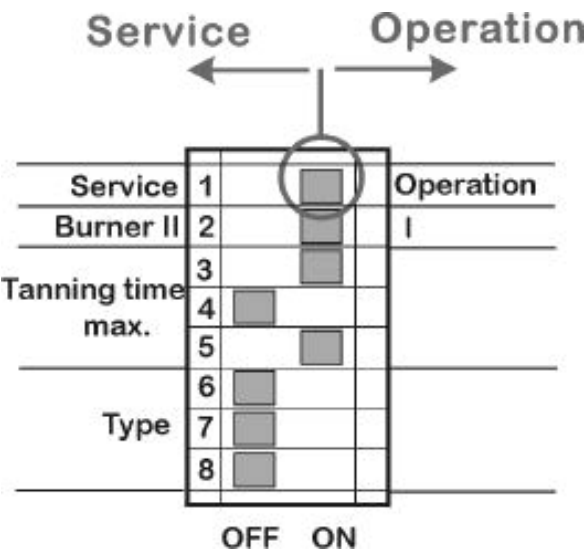
Now, inspect the spring ropes for wear. Should individual wires of the ropes be frayed, replace both ropes.

- Grease the ropes in the guide pulley area in the base frame as well as the eccentric disks in the canopy section.
- If canopy does not remain properly in upper position, the two springs can now be retightened evenly.
(An SW 19 wrench is required and supplied with unit.)
The coupling nuts can be accessed by removing the 2 cover caps at the lower front part.

- Replace base part by lowering down and locking in place.

Connection Hoses Between Canopy and Base

Connection hoses are to be visually inspected each time lamps are replaced. Defective hoses must be replaced by operation of unit continues.



Dip switches on circuit board

SERVICE MODE
For Trained Staff Only!

In the Service mode, the unit can be operated without the digital timer. In this mode the exhaust air fans are in constant operation.

Note: The airflow switches are not monitored in this mode.

- Using the slide switch on the controller board you can select either Standard or Service mode.
- The lamp can be switched on using the START field and switched off again by touching the STOP field. The usual time lags occurring after switching off the lamps or the air-conditioning unit are not active in the Service mode.
- The other functions are the same as in Standard mode.

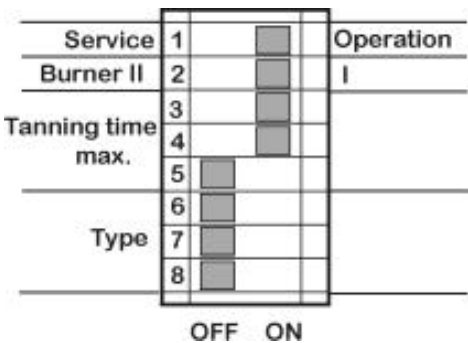


WARNING!

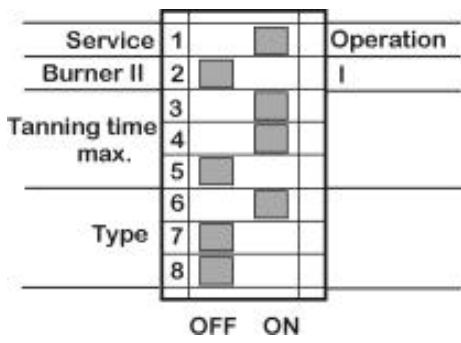
In Service mode, the UV lamps should not be operated for more than 60 seconds with the front panels removed or the bed tilted upwards. The tanner areas will overheat, destroying the acrylics.

SETTING THE CODE SWITCHES

The switch settings may only be altered by specialized staff after the supply voltage has been disconnected!



Dip switches on circuit board with 1 level.



Dip switches on circuit boards with 2 levels.

TROUBLESHOOTING

Display Error Messages and Possible Solutions

Display	Error Message	Please Inspect
01	Emergency STOP pressed	Press START to resume
02	Bridge from E7.5 to E.7.6 removed (free input)	Establish connection
04	Air-Flow Switch -no contact	Inspect Exhaust Air System: <ul style="list-style-type: none"> • Clean or replace dust filter • Free exhaust air hoses from kinks or blockages • Check hose does not exceed 6 meters • Check additional fan if applicable • Ensure sufficient air supply and ventilation • Inspect connection hoses between canopy and base Also inspect the following: <ul style="list-style-type: none"> • Exhaust air fan with operational units • Capacitor of fan motor • Air-flow switch • Non-return valve
05	Maximum tan time exceeded	Stop immediately. Break contact with timer.

After problem has been corrected, clear the display by pressing the START and STOP fields simultaneously for at least 3 seconds.

A flashing 02 and 04 must be cleared by pressing the START and STOP fields simultaneously for a short time.

TROUBLESHOOTING

Possible Problems and Solution Suggestions

Problem	Possible Cause
Unit will not work	<ul style="list-style-type: none"> • No voltage supply • Error message on run display (see page 24) • Remote digital timer is not working • No control voltage or defective control fuse
One or more lamps will not work	<ul style="list-style-type: none"> • Defective starter • Lamps are not correctly installed • Lamp is defective or damaged • Plug connector is not attached properly <p>Also check:</p> <ul style="list-style-type: none"> • Ballast and ballast connections • Phase failure at ballast • Control cable may have defect
Facial Tanner does not work	<ul style="list-style-type: none"> • Lamp is not positioned correctly in socket • Lamp is defective or damaged • Defective ballast • Plug connector is not attached properly • Filter glass protective switch is on
Interior and bed surface too hot	<ul style="list-style-type: none"> • Exhaust air system not working • Air conditioning unit is not switched on • Air conditioning temperature sensor is too close to heat exchanger • Defective heat exchanger • Defective air conditioner unit



DO NOT ATTEMPT TO REPAIR your SonnenBräune bed without first notifying your distributor or the SonnenBräune Service Center so an evaluation of electrical service may be determined. Provide this diagram to the certified technician if necessary.

NOTE to Electricians:

Wiring diagrams are provided at the end of this manual.

WARNING!

SonnenBräune will not be responsible for improperly maintained, old or worn out parts or uncertified replacement parts. Only replace with SonnenBräune certified replacement parts.

- Please check the condition and tightness of all bolts, nuts and screws, piston clips, etc. once a month.
- Cleaning your sunbed as part of regular maintenance will ensure your clients' comfort as well as increase the life of the equipment.
- Visually inspect your tanning bed for cracked or broken acrylics as well as the function of the canopy (raising and lowering) between every session.

If for any reason, you encounter technical problems, please call your distributor for assistance. If further customer assistance is needed, call SonnenBräune, Inc. at 800-829-6533.

Disposing of the packing

With the exception of wooden materials, packing materials and packing aids can be recycled and should always be reused.

Paper, cardboard and corrugated cardboard packing materials, plastic packing parts and metal packing parts should be deposited in the appropriate collection containers. If these are not in place in your area, you can put these materials in with normal household waste.

We use only plastics capable of recycling as packing aids, e.g.

The symbols read:

PE for polyethylene (02=PE-HD; 04PE-LD)

PP for polypropylene (05)

PS for polystyrene (06)

**Disposal of parts**

The separate, environmentally compatible disposal of materials or material residues promotes the reuse of valuable materials.

The reflector lamps should not be put in household waste, but should be disposed of separately (special waste). The lamps must not be destroyed before disposal.

The disposal of wastes from private households and the commercial sector is possible through the public special waste collection points.

Information on disposal can be obtained from your waste department.

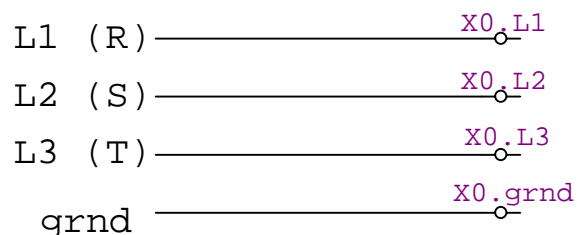
Spare Parts

Use only manufacturer approved spare parts as shown on parts list. If spare parts from other manufacturers are used, this can affect the performance of the unit, and your warranty.

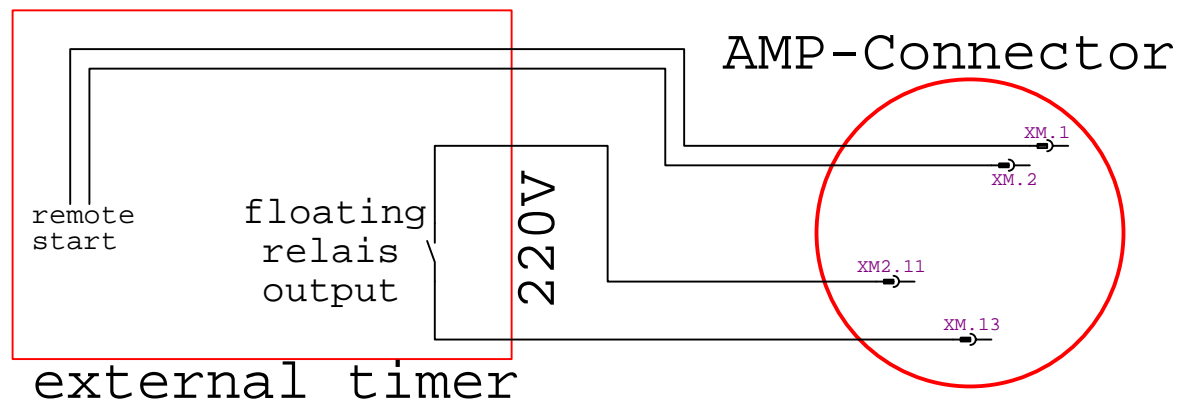
Diagrams for the Diva Collection DV5

The following pages contain detailed wiring diagrams for electrical and operational repairs or maintenance.

connection of the
mains power supply
220V / 3 ~ / 60Hz



connection to an external timer
with a floating relais output

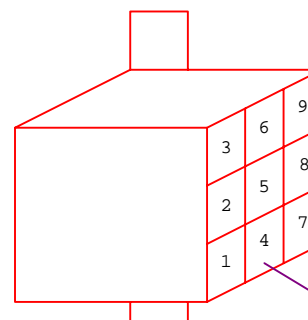


plugs

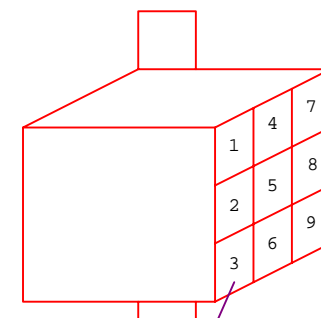
X0 main terminal block control
X1-X10 control

X13 heat return
X14-X15 connection side part
X16 waste air fan left
X17 waste air fan right
X18 air conditioning, X18B condensate pump, X18C grnd
X19 ventilation
X20-X25 connection top
(simply to reach after removing of tubes 16-22)

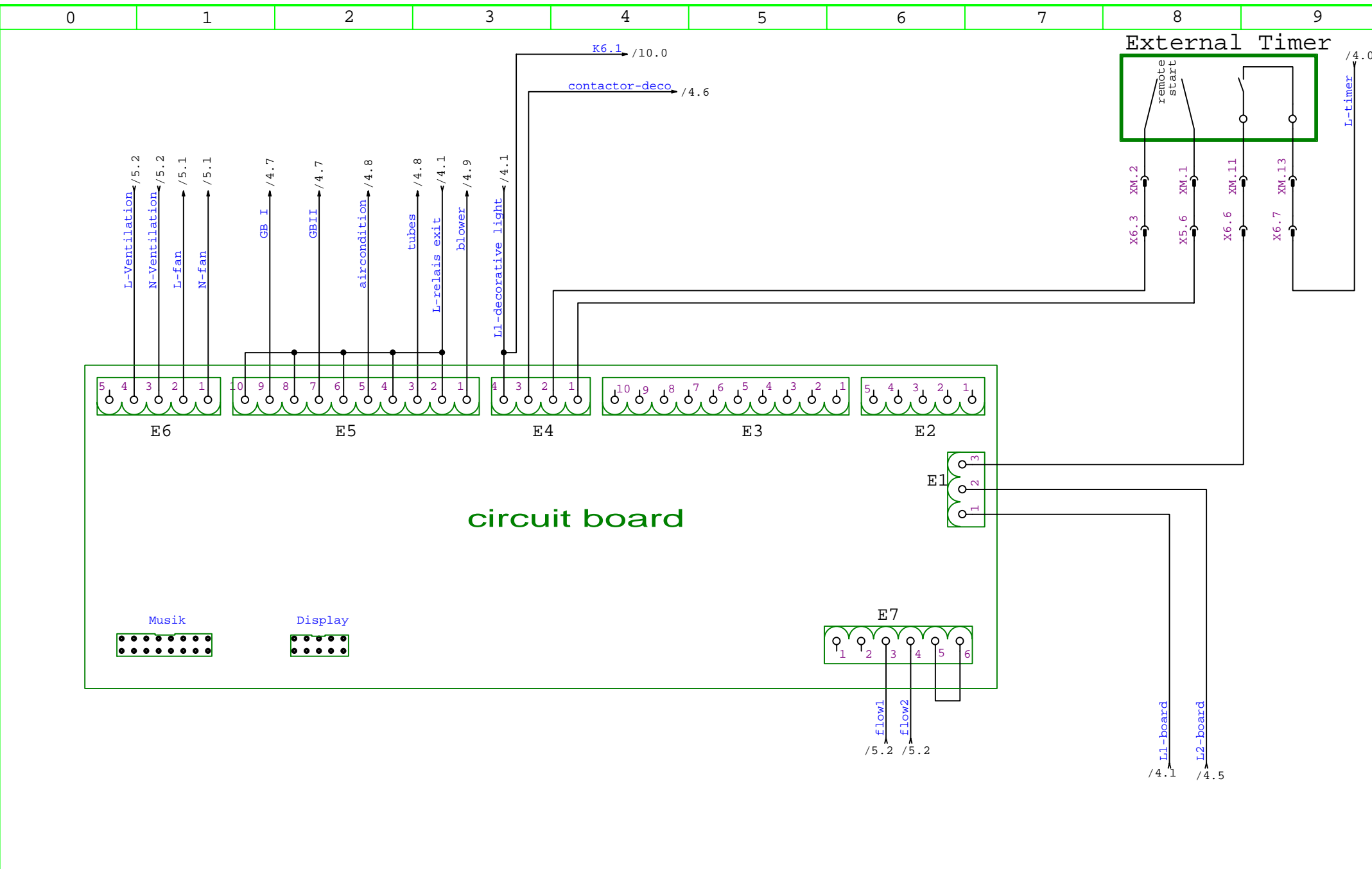
Plug male

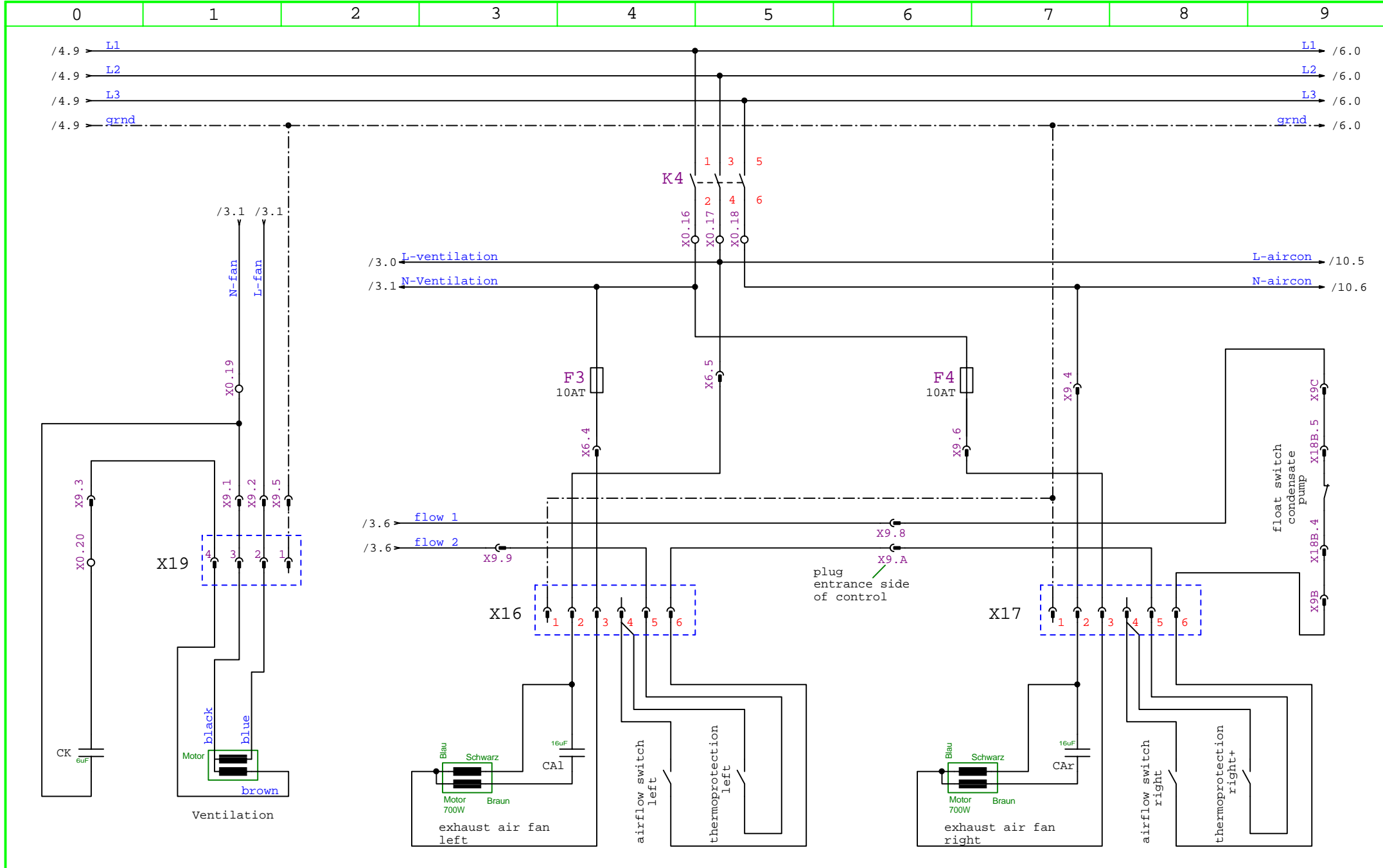


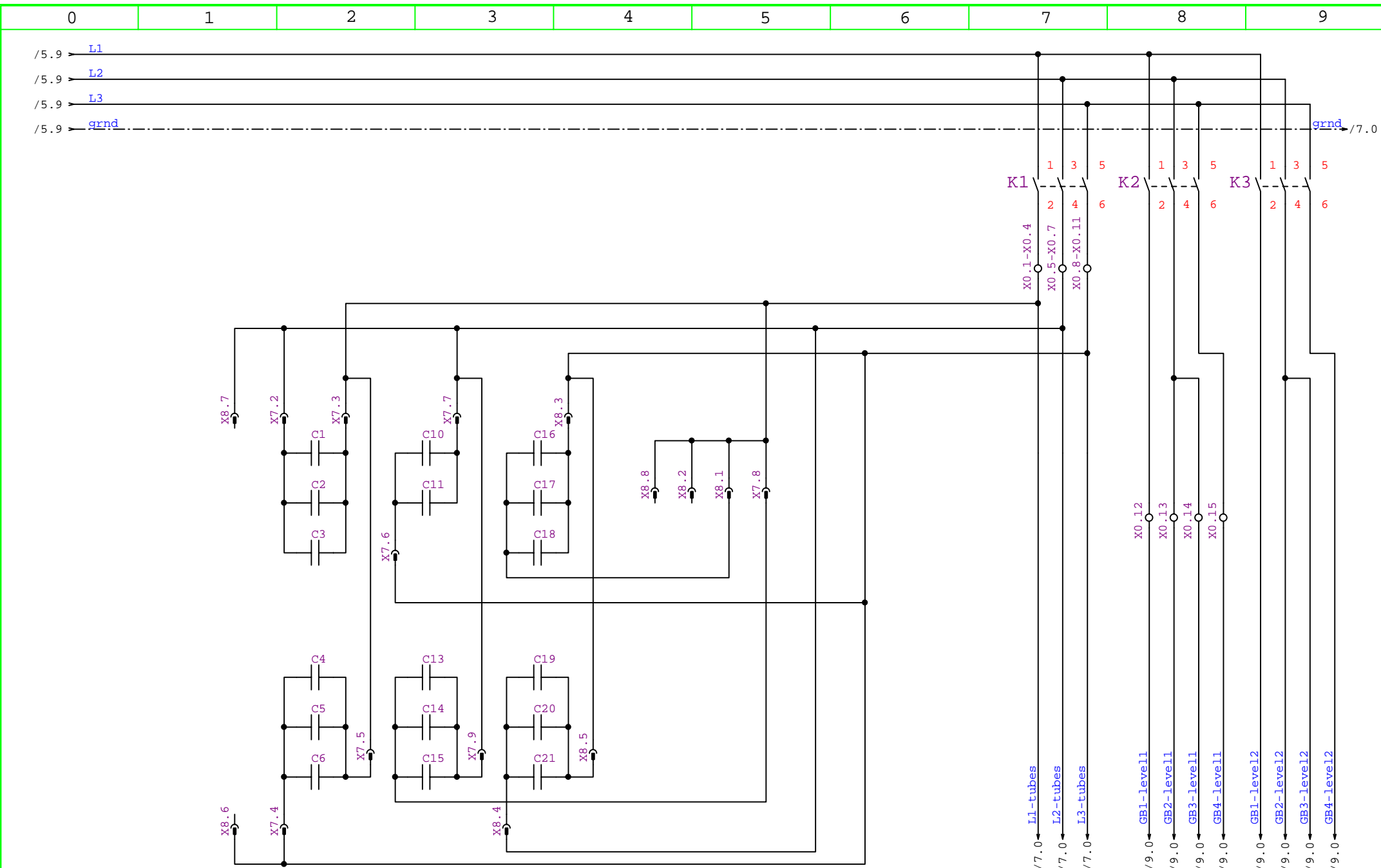
Plug female

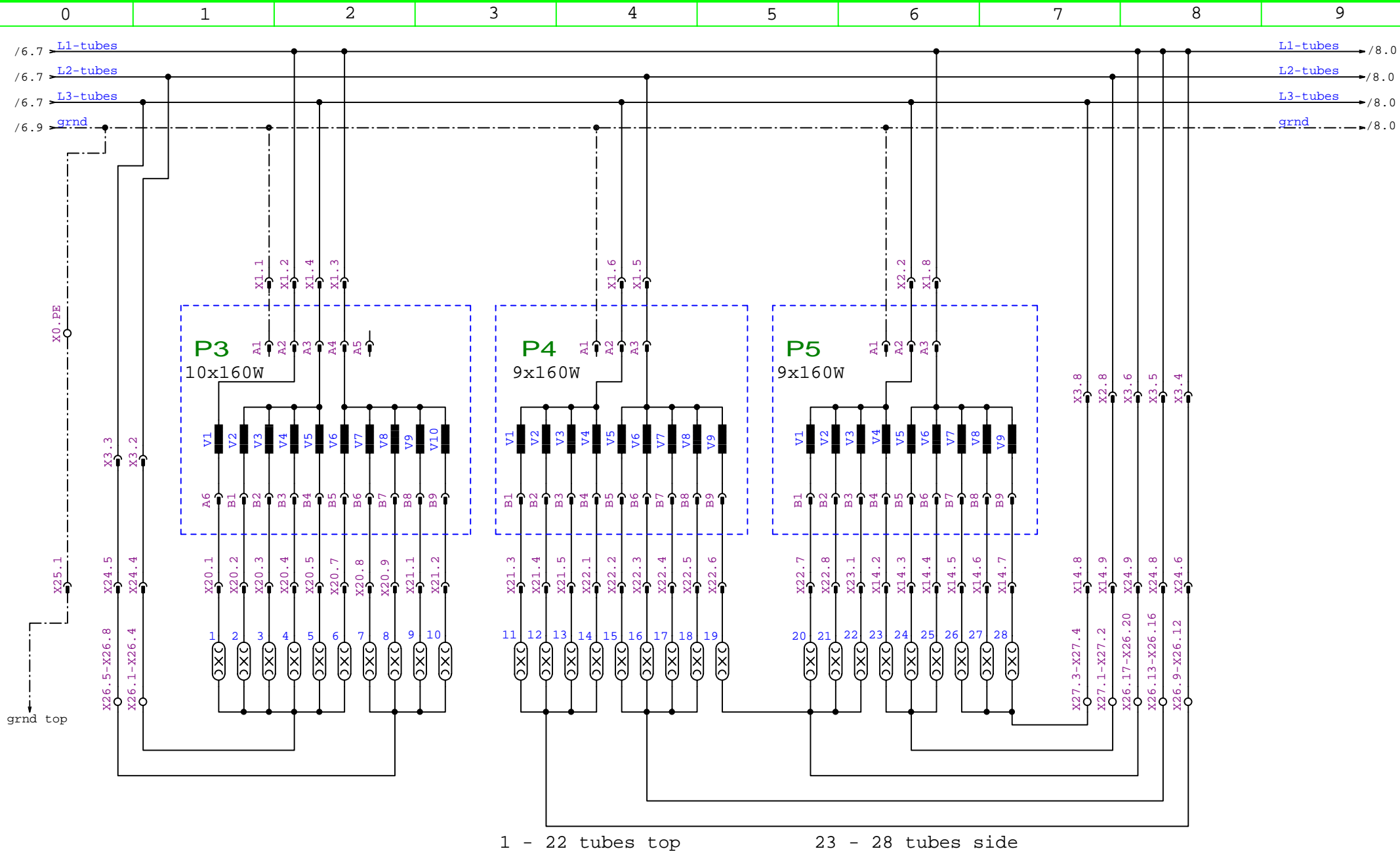


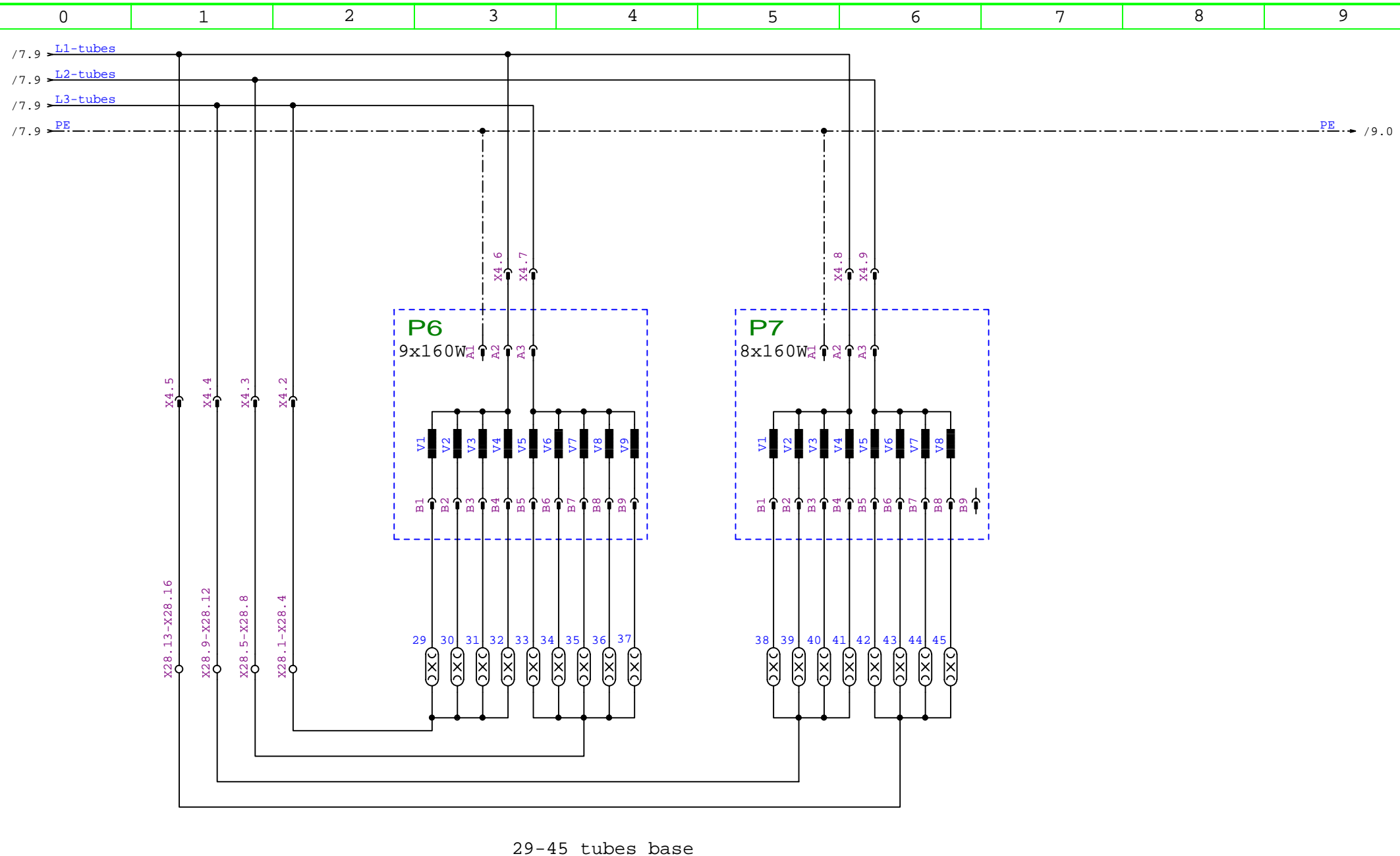
side for
introduction of cables

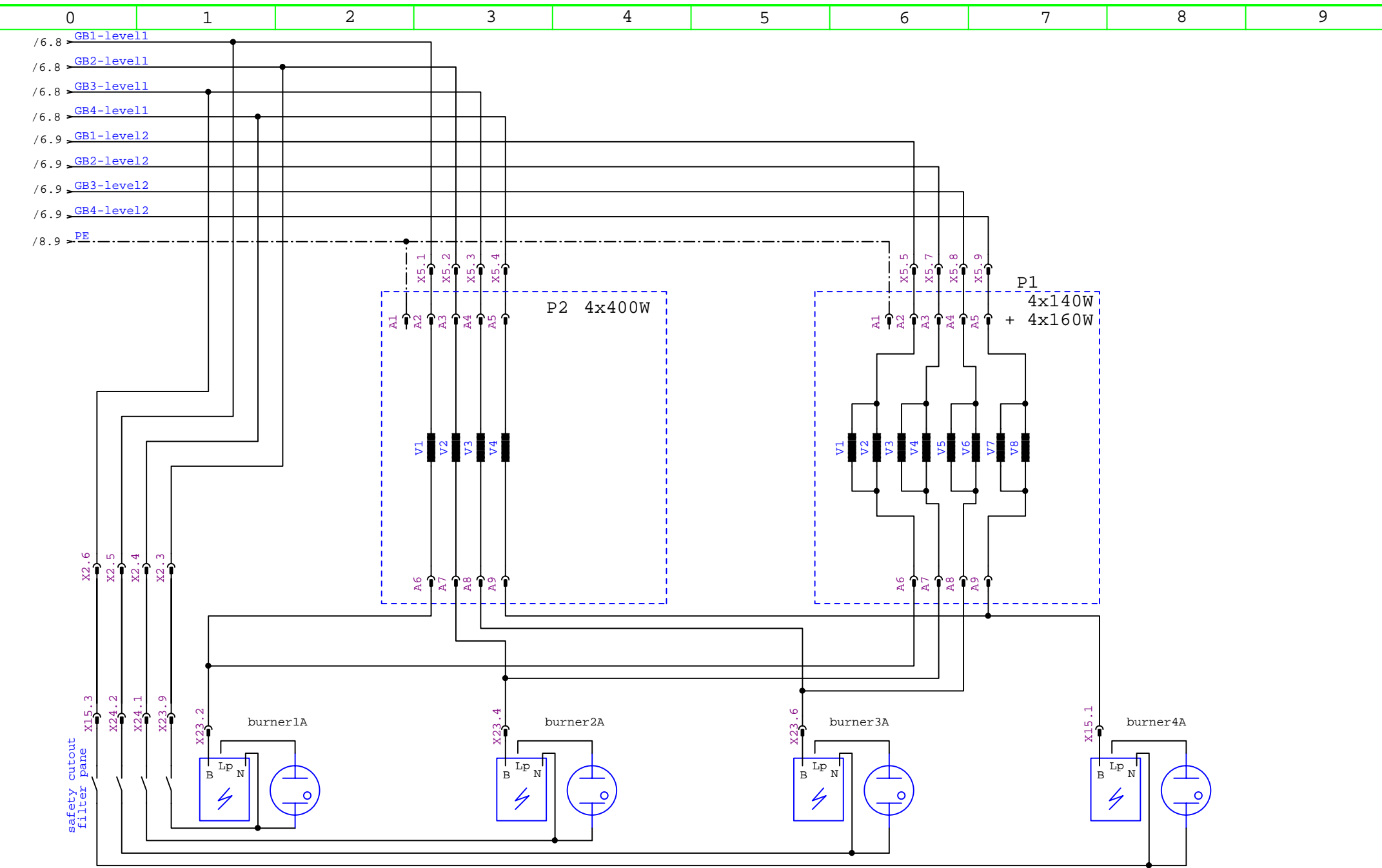


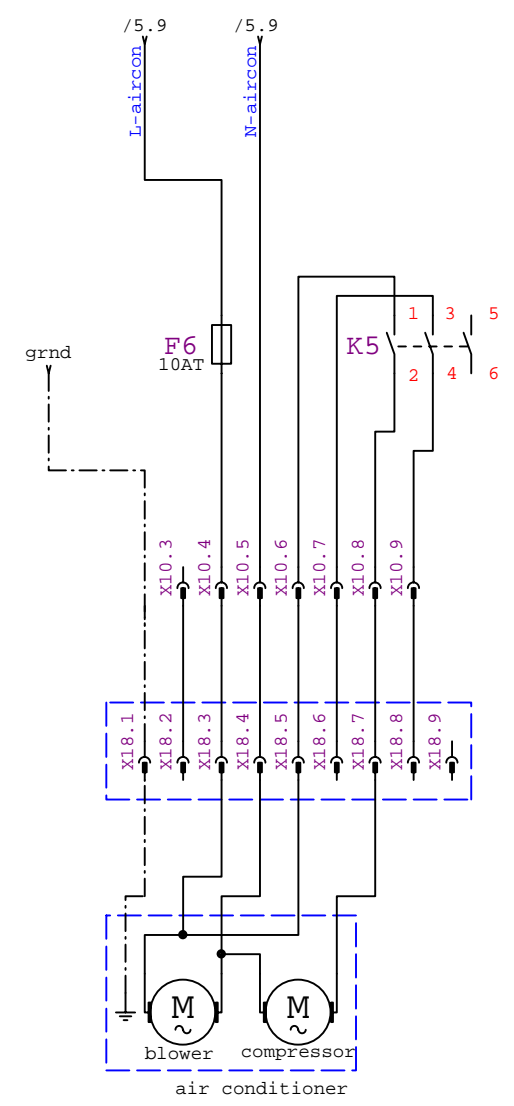
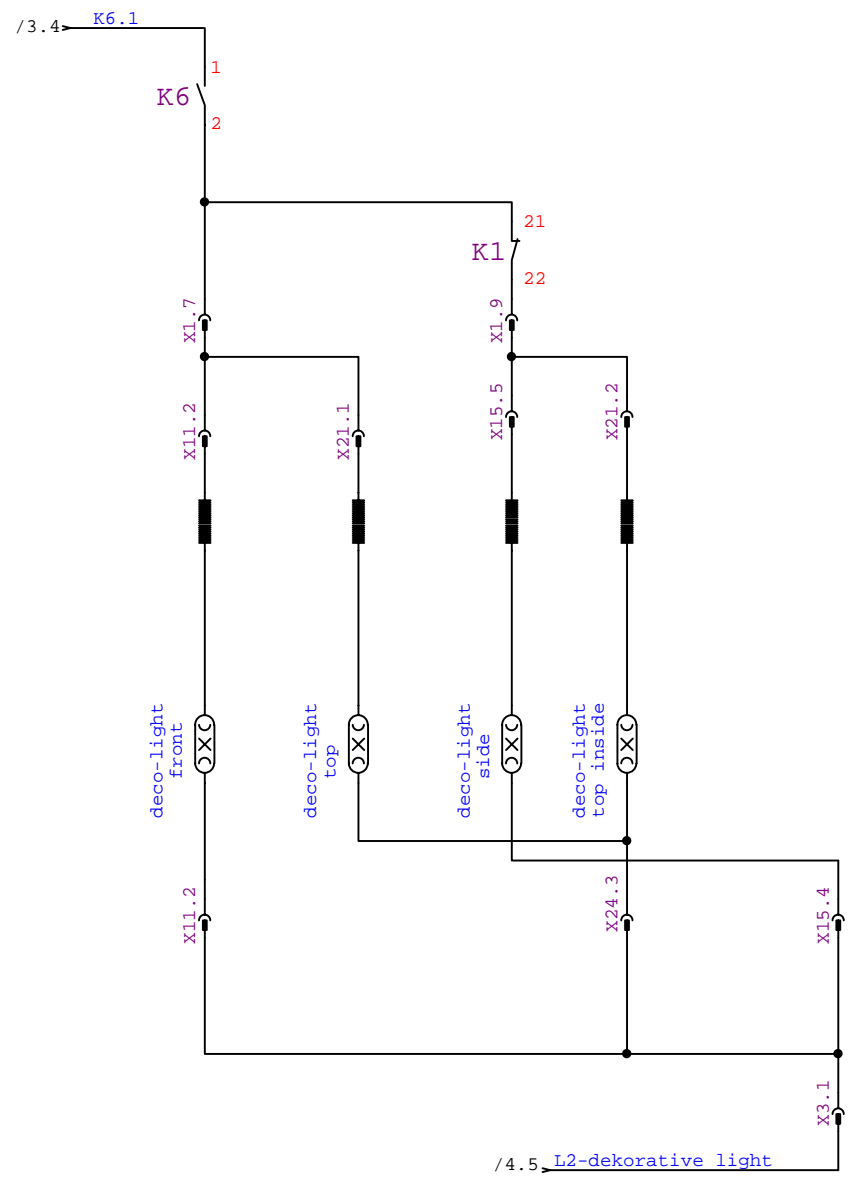






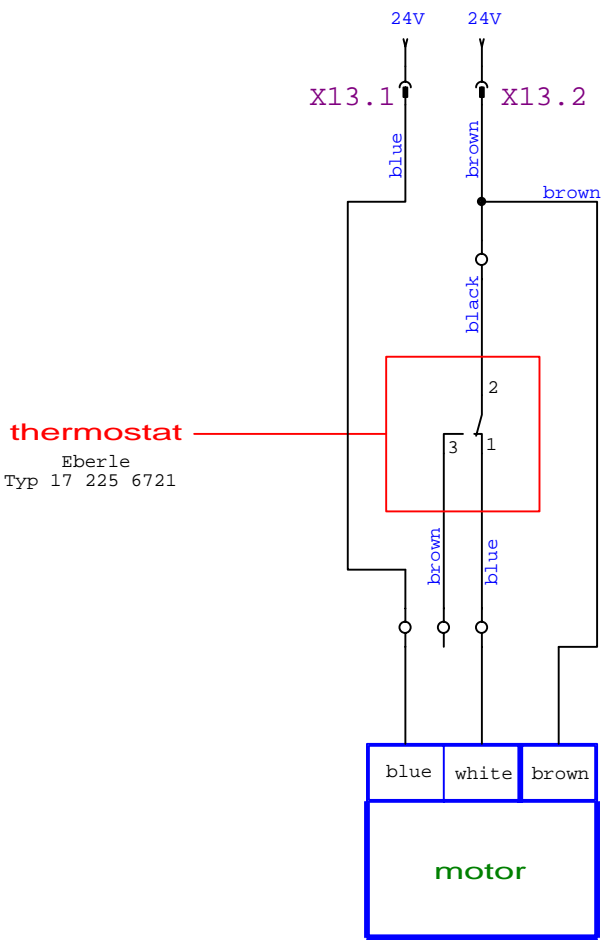




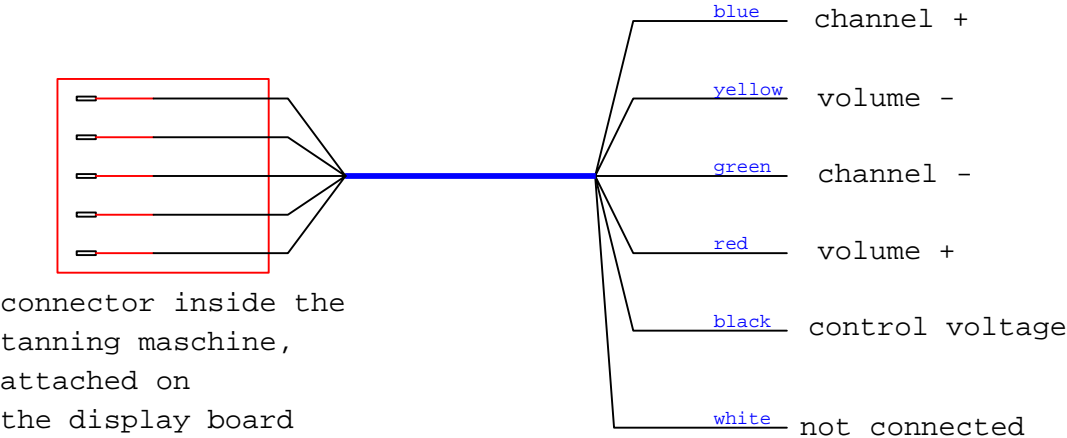


heat return motor Belimo type NM230

connection over X13 see page 4



connection to an external
soundsystem



0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

X1

X0.PE/D	X0.4/B	X0.1/C
P3.A1 ₁	P3.A2 ₂	P3.A4 ₃
X0.8/D	X0.5/D	X0.8/C
P3.A3 ₄	P4.A3 ₅	P4.A2 ₆
K6.2	X0.1/D	K1.22
X11.1 ₇	P5.A3 ₈	X15.5 ₉
X21.1		X21.2

X2

	X0.9/C	X0.13/C
	P5.A2 ₂	X23.9 ₃
X0.15/C	X0.12/C	X0.14/D
X24.1 ₄	X24.2 ₅	X15.3 ₆
	X0.7/D	
	X14.9 ₈	

X3

X0.24/B	X0.5/C	X0.10/C
X11.2 ₁	X24.4 ₂	X24.5 ₃
X0.2/C	X0.3/D	X0.3/C
X24.6 ₄	X24.8 ₅	X24.9 ₆
	X0.11/D	X4.1
	X14.8 ₈	X25.1 ₉

E1

X0.22/C	X0.23/D	X6.6
1	2	3

E4

X5.6	X6.3	K6.A2	X0.21/C K6.1
1	2	3	4

X4

X0.PE/C X3.9	X0.10/A	X0.6/C
P6.A1 ₁	X28.1/B ₂	X28.5/B ₃
X0.11/A	X0.3/A	X0.4/C
X38.9/B ₄	X28.13/B ₅	P6.A2 ₆
X0.11/B	X0.4/D	X0.7/C
P6.A3 ₇	P7.A2 ₈	P7.A3 ₉

X5

X0.12/A	X0.13/A	X0.14/A
P2.A2 ₁	P2.A3 ₂	P2.A4 ₃
X0.15/A	K3.2	E4.1
P2.A5 ₄	P1.A2 ₅	XM.1 ₆
K3.4	K3.4	K3.6
P1.A3 ₇	P1.A4 ₈	P1.A5 ₉

X6

24V KM.A2	24V	E4.2
X13.1 ₁	X13.2 ₂	XM.2 ₃
X0.F3	X0.17/C	E1.3
X16.3 ₄	X16.2 ₅	XM.11 ₆
X0.22/A	(E7.5)	(E7.6)
XM.13 ₇	X25.2 ₈	X25.3 ₉

E5

K4.A1	X0.22/D E5.4	K1.A1	E5.2 E5.6	K5.A1	E5.4 E5.8	K3.A1	E5.6 E5.10	K2.A1	E5.8
1	2	3	4	5	6	7	8	9	10

X7

	X0.5/A	X0.1/A
	C1 ₂	C1 ₃
X0.8/B	X0.1/B	X0.8/A
C4 ₄	C4 ₅	C10 ₆
X0.5/B	X0.2/A	X0.6/A
C10 ₇	C13 ₈	C13 ₉

X8

X0.2/B	X0.3/B	X0.9/A
C16 ₁	C7 ₂	C16 ₃
X0.6/B	X0.9/B	X0.10/B
C19 ₄	C19 ₅	C22 ₆
X0.7/A	X0.4/A	X0.PE/A
C7 ₇	C22 ₈	C-PE ₉

X9

X0.19/A	E6.2	X0.20/D
X19.3 ₁	X19.2 ₂	X19.4 ₃
X0.18/C	X0.PE/B	X0.F4
X17.2 ₄	X19.1 ₅	X17.3 ₆
	E7.3	E7.4
	X17.6 ₈	X16.5 ₉

E6

X0.19/D	X9.2	X0.16/C	X0.17/B	n.c.
1	2	3	4	5

E8

X0.21/D	X0.24/A X10.2	n.c.
1	2	3

X10

X0.21/A	E8.2	n.c.
X18B.2 ₁	X18B.3 ₂	X18.2 ₃
X0.F6	X0.18/A	K5.1
X18.3 ₄	X18.4 ₅	X18.5 ₆
K5.3	K5.2	K5.4
X18.6 ₇	X18.7 ₈	X18.8 ₉

0

1

2

3

4

5

6

7

8

9

X14

	P5.B4	P5.B5
	R23	R24
P5.B6	P5.B7	P5.B8
R25	R26	R27
P5.B9	X3.8	X2.8
R28	X27.3/B	X27.1/B

X15

P2.A9		X2.6		
burner4 ign.B	1	burner4 ign.N	3	
X11.2 X24.3	X1.9			
tube deko	4	ballast deko	5	6

side

X28

X4.2			n.c.	X4.3			tube37	X4.4			n.c.	X4.5			n.c.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
tube29	tube30	tube31	tube32	tube33	tube34	tube35	tube36	tube38	tube39	tube40	tube41	tube42	tube43	tube44	tube45

base

X27

X14.9	tube25	X14.8	tube28
1	2	3	4
tube23	tube24	tube26	tube27

side

X11 (Wago)

X1.7	ballast
1	2
X3.1 X15.4	tube

deko-light base

X13

X6.1	X6.2	
1	2	3

heat return

X18

X18C	X10.3	X10.4
grnd aircon 1	n.c. 2	L2-aircon 3
x10.5	X10.6	X10.7
13-aircon 4	compr. 5	n.c. 6
X10.8	X10.9	
compr. 7	n.c. 8	

air conditioning

X18B (Wago)

X18C	X10.1	X10.2
1	2	3
grnd	L-pump	N-pump

condensate
pump

X19

	X9.5	X9.2	X9.1
	grnd blower 1	blower blue 2	blower black 3
	X9.3 blower brown 4		

ventilation

X16 (Wago)

X13.1	X17.1	X6.5	X6.4	X9.9	X9.A
1	2	3	4	5	6
blower grnd	blower black	blower blue	Thermo/ airflow	Thermo	airflow

exhaust air fan
left

X17 (Wago)

X16.1	X18.1	X9.4	X9.6	X9.A	X9.8
1	2	3	4	5	6
blower grnd	blower black	blower blue	Thermo/ airflow	Thermo	airflow

exhaust air fan
right

X9.A

X16.6
X17.5

airflow switch

X18C

X17.1
X19.1
X18.1
X18B.1

grnd air conditioning,
condensate pump

X20

P3.A6	P3.B1	P3.B2
R1 1	R2 2	R3 3
P3.B3	P3.B4	
R4 4	R5 5	
P3.B5	P3.B6	P3.B7
R6 7	R7 8	R8 9

X21

X1.7	X1.9	
ballast Insert 1	ballast blue 2	
	P3.B8	P3.B9
	R9 5	R10 6
P4.B1	P4.B2	P4.B3
R11 7	R12 8	R13 9

X22

P4.B4	P4.B5	P4.B6
R14 1	R15 2	R16 3
P4.B7	P4.B8	P4.B9
R17 4	R18 5	R19 6
P5.B1	P5.B2	
R20 7	R21 8	

X23

P5.B3	P2.A6	
R22 1	burner1 ign.B 2	
P2.A7		P2.A8
burner2 ign.B 4		burner3 ign.B 6
		X2.3
		burner1 ign.N 9

X24

X2.4	X2.5	X15.4
burner2 ign.N 1	burner3 ign.N 2	tubes Deko 3
X3.2	X3.3	X3.4
X26.1/B 4	X26.5/B 5	X26.9/B 6
	X3.5	X3.6
	X26.13/B 8	X26.17/B 9

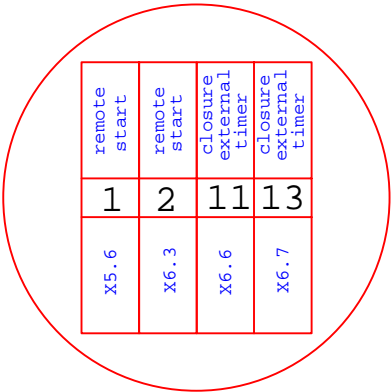
X25

X3.9	X6.8	X6.9
grnd.-top 1	Thermo 2	Thermo 3

X26

Nummer	<div><div></div><div></div><div></div><div></div><div></div></div>																			
	B																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	tube2	tube3	tube4	tube5	tube7	tube8	tube9	tube10	tube11	tube12	tube13	tube14	tube15	tube16	tube17	tube18	tube19	tube20	tube21	tube22

AMP-Connector



XM

0

1

2

3

4

5

6

7

8

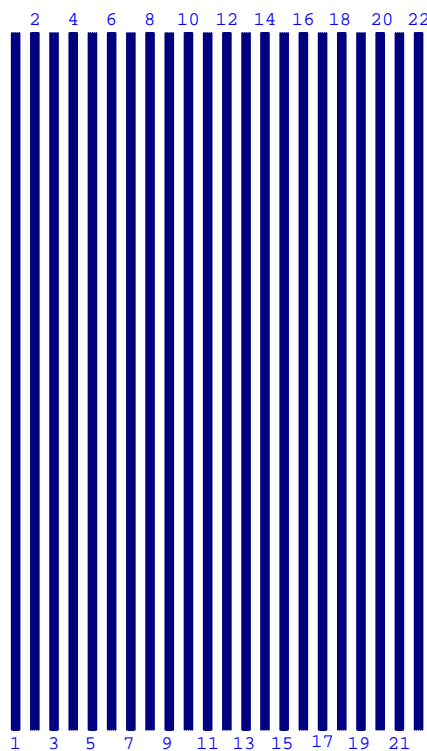
9

top
(view from above)

base
(view from above)

side

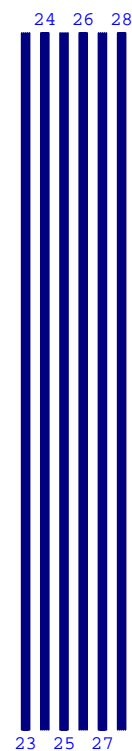
front



1A

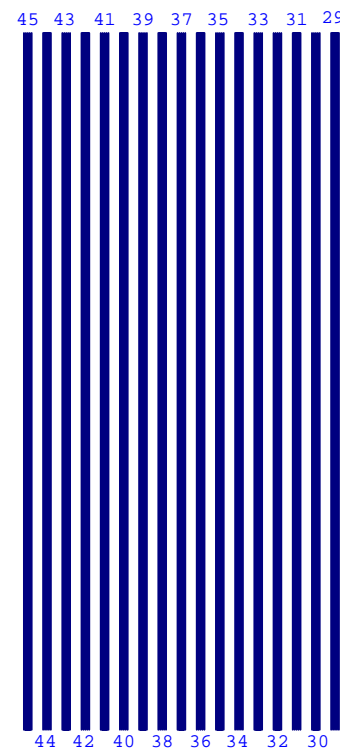
2A

3A



4A

front



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www.sonnenbraune.com

The logo for SonnenBräune, Inc. features the company name in a stylized, handwritten-style script. The 'S' is large and loops around the 'o'. The 'ä' is written with a small 'e' over it. The 'u' has a long, horizontal tail that extends to the right. A registered trademark symbol (®) is located at the end of the word.