CONCEPT 401 EC

PRE-INSTALLATION
INSTALLATION
USER'S MANUAL
TECHNICAL MANUAL

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Manufacturer's address:

GLUNZ & JENSEN DEGRAF S.p.A.
"Il Girasole" - Palazzo Donatello 8/03b
20084 Lacchiarella (MI)
Italy

Range of application:

This unit is a part of a full range dedicated for the treatment of flexographic printing plates. This range includes exposure, processor, dryer and light finisher.
The CONCEPT 401 EC is a unit designed to expose flexographic printing plates. All other steps of the process are carried out on the other components of the range.

Maximum capacity of the unit:

Capacity:	1 exposure section
Maximum plate size:	1 200 x 2 600 mm (47 x 63")

Principle description:

- This unit is designed to expose flexographic printing plates before the washout process.
- The unit is operated by a specific control panel which ensures very easy handling.
- 25 channels are available to memorise the back exposure and the main exposure times.

Safety warnings:

To use this unit safely, it is essential that operators and maintenance people follow the safety instructions and safety precautions and warnings specified in the manuals.

The unit is equipped with emergency switches which allow the operators to stop the machine in case of an emergency.

These emergency switches cut off the power supply of the entire machine.

Make sure that the risk or the problem has been eliminated before restoring the power on the unit.

To release the emergency switches, turn clockwise. The unit has to be re-started following the "Initial operation of the machine" - procedure.

Safety interlocks
For the safety of operators, interlocks exist for the following:

- *Opening the exposure lid during operation,*
- *Safety device fitted on the lid to prevent injuries during the closing of the lid.*

If any of the interlocks are not installed or closed, the unit or a specific section of the unit will not operate.

If an interlock is activated during operation, the unit or a specific section of the unit stops immediately the concerned section.

NOTE: The exposure section is fitted with a safety interlock to prevent user to be exposed to UV-A light radiation.

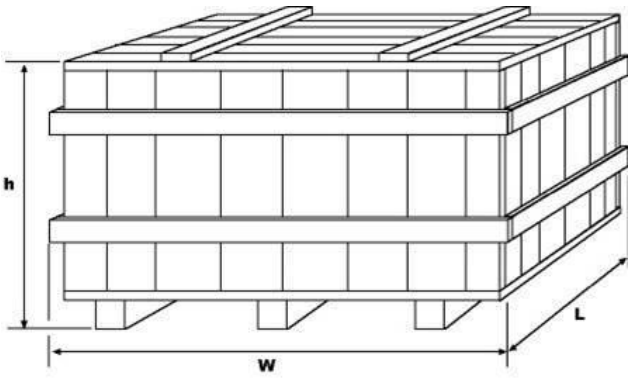
Technical data:

Dimensions (w x l x h):	2 600 x 1 800 x 1 100 (closed) or 2 380 (open) mm				
Net weight:	1 000 kg				
Compressed air supply:	7 bars minimum				
Power supply:	400V	3Ph / N / PE	50/60Hz	5,2 kW	8 A
	230V	3Ph / PE	50/60Hz	5,2 kW	14 A

Crate dimension:

- Please ensure the handling of the crate will be compatible with the building configuration: doors dimensions, load capacity of the floor …

W:	2 870 mm
L:	2 070 mm
H:	1 510 mm
Weight (crate included):	1 500 kg



Floor space requirement:

- Please ensure there will be sufficient space around the machine for safe use as well as easy access for maintenance. 2 meters free space is needed in front of the machine to give an easy access as well as the possibility to remove the lamp drawer from the machine for maintenance. On the sides of the unit 800 mm are requested to allow the access. On the back 800 mm is needed to allow access.

Connections location:

- All the connection points (electric and compressed air) are located on the right side of the machine. Open the 2 doors to access to the connection points.

Accessories needed for the connections:

Compressed air:	6 mm external diameter hose for compressed air
Power supply:	5 x 4 mm^2 cable for the 400V configuration
	4 x 4 mm^2 cable for the 230V configuration

Upon receipt of your machine please check with the carrier the status of the crate. Notify him of any damage you see on the crate.

Before starting to unpack the unit, make sure you have all required tools ready to hand.

Unpacking:

Warning: For safety reasons, please wear appropriate protective clothing (gloves, glasses, and safety shoes) while unpacking.

- Start by removing the top section of the crate.
- Remove the sides one by one.
- The machine is now resting on the base of the crate.
- Remove all blocking pieces of wood.
- Remove the locking nuts which fix the machine to the crate.
- Use the appropriate forklift to lift the unit and get it to its installation location. Take care that the forks are long enough to lift the machine without causing damage.
- Install the 4 feet of the unit.
- Move the unit to its final position.
- Ensure there is sufficient space around the machine (see Pre-installation section).
- Remove all protection from the unit (do not use sharp tools to prevent damages).
- No special anchorage is needed for this unit. The unit will rest only on its feet.
- Align the machine precisely by means of a spirit level. The alignment is made by using the adjustable feet.

Parts delivered with the machine:

Items:	Qty:
UVA lamps	Installed in the machine
Vacuum foil	Installed in the machine
Panel key	1
Set of fuse	1
Compressed air hose (6 mm)	3 m

Verify that all parts are with the machine.

Connections:

All necessary connections have to be carried out in accordance to the rules of your country.

Electrical connection as well as compressed air connection is located on the right side of the unit. Open the 2 doors to access to the connection points.

Electrical connection:

- Connection such as electrical power supply has to be carried out by certified personnel.
- It is recommended to use a ground fault circuit breaker as well as a lockout type power switch for the electrical connection.
- Before switching the machine on, measure the voltage on the main switch of the machine and make sure that it matches the value on the identification plate, which is fixed at the back of the unit.

Filling the cooler tank:

- Remove the cover of the heater/cooler tank located at the back of the unit.
- Prepare 4 liters of a solution based on 70% of de-mineralized water (or distilled water), 30% of ethylene glycol and some drops of algaecide (anti-foam action).
- Fill the tank to the maximum.
- After running the unit for a couple of minutes, it may be needed to check again the level of the heater/cooler tank and to add solution to reach the correct level.

Initial operation of the machine:

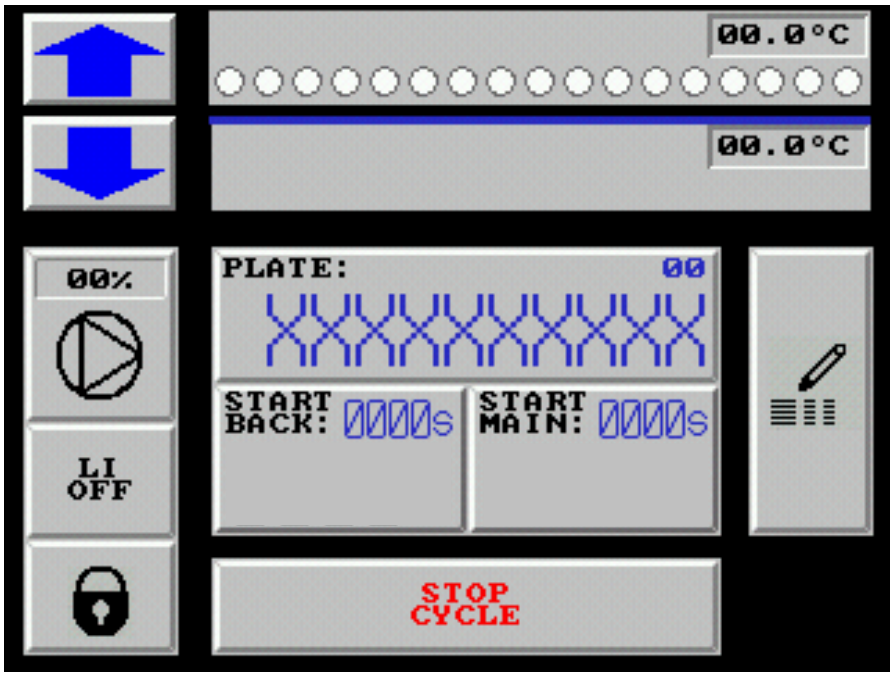
Before switching the machine on make sure that the working area around the machine is clean and free for easy movement.

Check if there are all the needed supplies:

- ✓ Electrical power supply: cable connected and not damaged.
- ✓ Compressed air: 7 bars minimum.

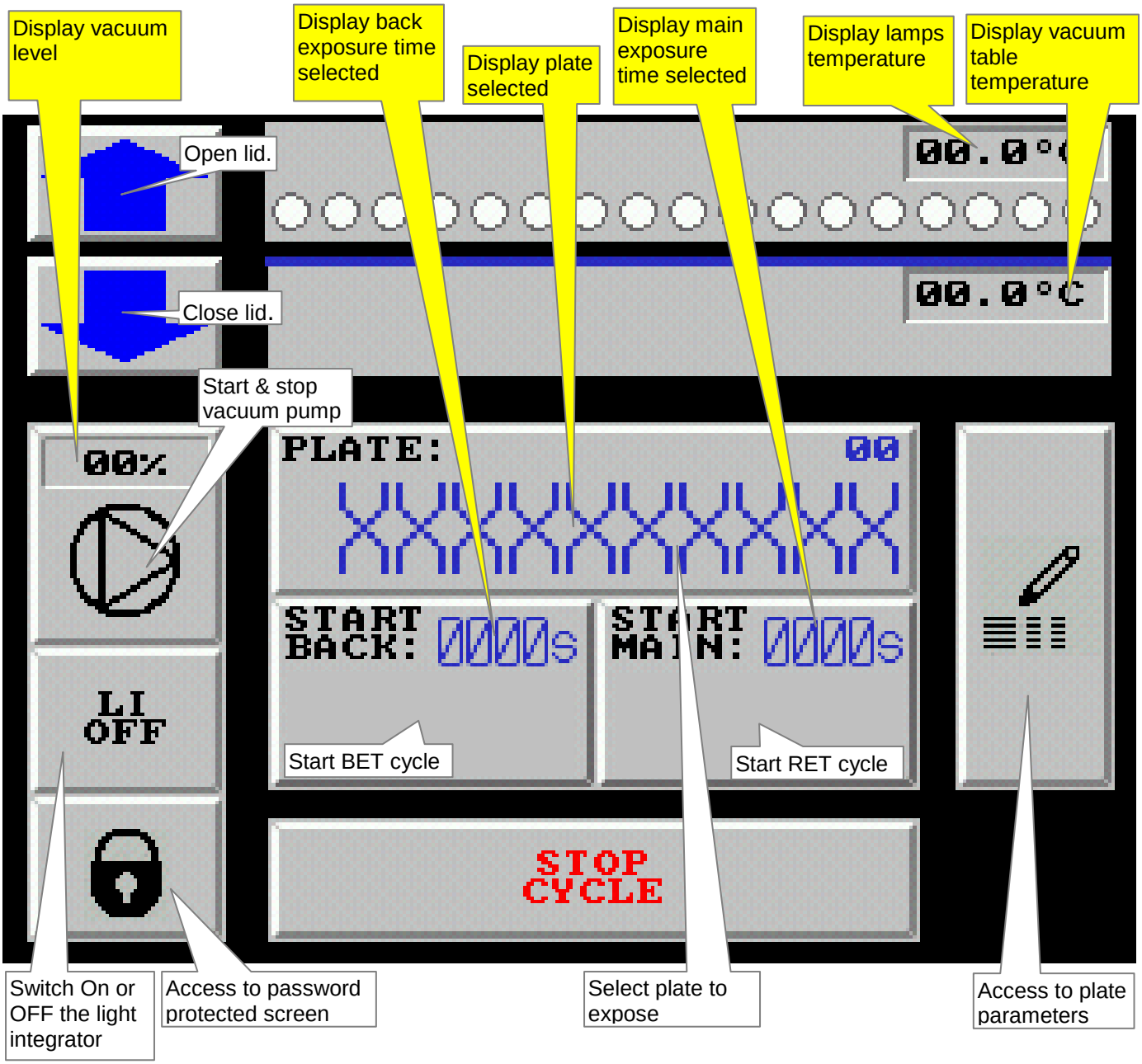
- You are now ready to switch the machine on.
- Turn the main switch of the machine, which is located at the right of the control panel of the machine.
- Switch the machine on by pressing the ON/OFF button, which is located at the right of the control panel of the machine.

- After a couple of second of display initialisation the main screen is displayed:



Main screen description:

The main screen allows to make several functions and to display several machine parameters:



Note: The touch "STOP CYCLE" is displayed only when a cycle is ongoing.

Functions description:

- **Open lid / close lid:**

Push on the touch to open or to close the lid. When the function is not active the arrow remains blue. When the function is ON the arrow is blinking green / blue. When the lid has reached the open or closed position the arrows remains green. To stop the function, simply press a second time on the touch.

Note: If the safety rubber switch is touched during the closing of the lid, it will automatically stop and move back to the full open position.

- **Start & stop vacuum pump:**

Push on the touch to start or stop the vacuum pump. The vacuum level is displayed in bar in the upper frame.

Note: It is not possible to start or to stop the stop when an exposure cycle has been started.

- **Start BACK:**

Press on the "START BACK" touch to start an automatic cycle to back expose the plate. The unit will then automatically close the lid, expose the back side of the plate, and open the lid. During a cycle the remaining back exposure time is displayed in black in the "START BACK" frame.

Note: To stop an ongoing cycle press on "STOP CYCLE".

- **Start MAIN:**

Press on the "START MAIN" touch to start an automatic cycle to main expose the plate. The unit will then automatically close the lid, expose the top side of the plate, and open the lid. During a cycle the remaining main exposure time is displayed in black in the "START MAIN" frame.

Note To stop an ongoing cycle press on "STOP CYCLE".

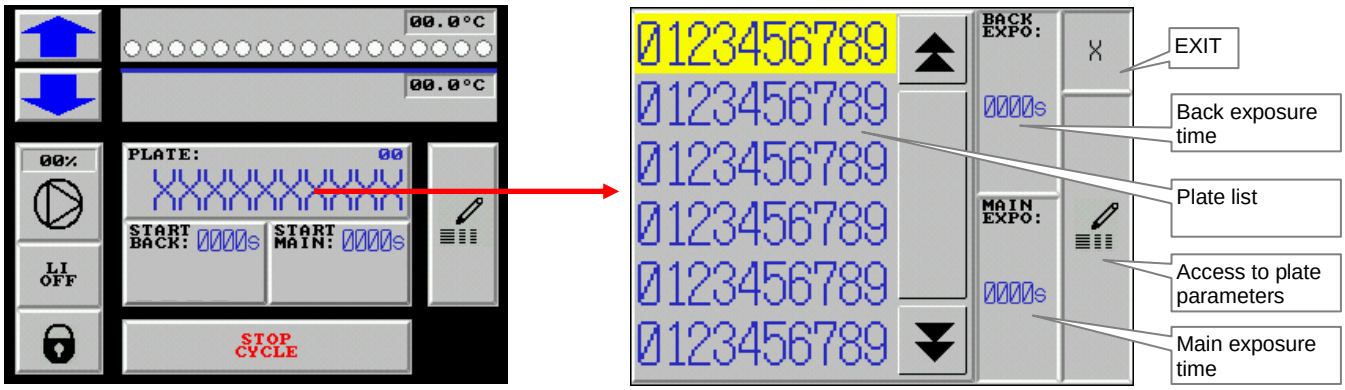
- **Enable or disable light integrator:**

Press on "LI OFF" or "LI ON" to enable or disable the light integrator function of the machine. With the light integrator disabled the time will be counted down by step of 1s.
With the light integrator enabled the time will be automatically adjusted depending of the UV output of the lamps. (it means that a selected time of 100s could become 90 or 110 depending of the UV output of the lamps).

Note: It is not possible to enable or disable the light integrator during an exposure cycle.

- **Select plate to expose:**

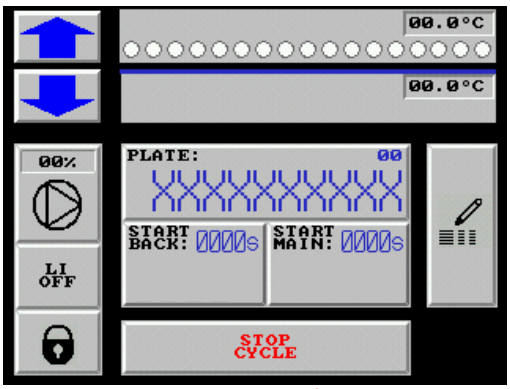
Simply press on the plate name frame to display the screen dedicated to the plate selection

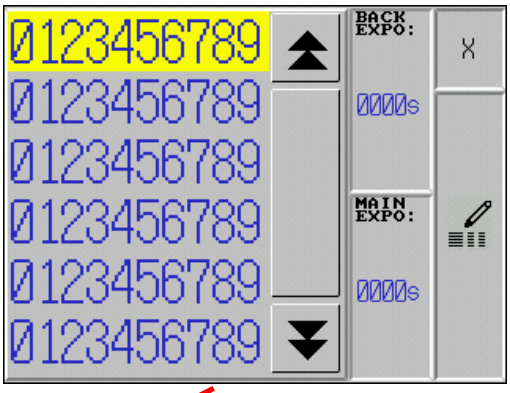


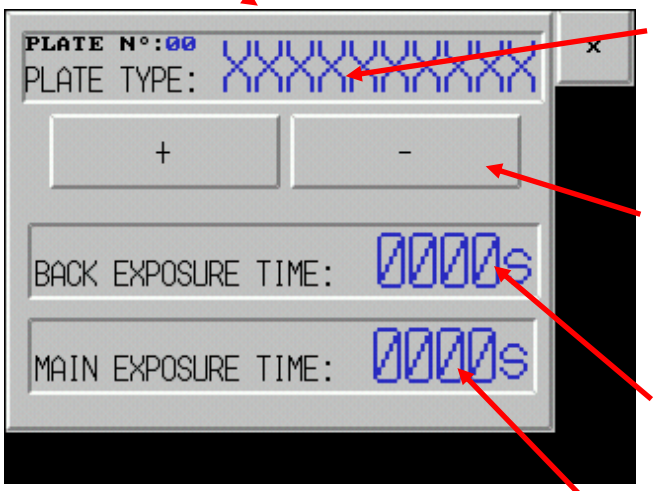
The names of all the different plates already stored are then displayed as well as the memorised back exposure and main exposure times.
A total of 25 "channels" are available to memorise the plate names and parameters.
To scroll the list up or down, simply press on the dedicated arrows.
To select a plate, press on the name of plate and the different exposure time are then displayed on the right. The plate selected is highlighted in yellow.

- **Access to plate parameters:**

Press on to access to the plate parameters screen.
This specific screen allows memorising the name of the plate as well as the back exposure time and the main exposure time.
25 channels are available to store plate parameters (0 to 24).







Press on the frame to enter the plate type using the alphanumeric keypad. Confirm the input by pressing ENTER on the keypad.

Press on + or – frame to switch from on plate to another. The plate number is displayed on the top left corner of the plate type.

Press on the frame to enter the back exposure time. Confirm the input by pressing ENTER on the keypad.

Press on the frame to enter the main exposure time. Confirm the input by pressing ENTER on the keypad.

To come back to the main screen, press "X" touch.

Note: When typing in a new value with both alphanumeric and numeric keypad always valid the modification using the "ENTER" touch of the keypads. If not the values will not be memorised.

- **Access to password protected screen:**

Press on the touch to access to the password screen.

Start an exposure cycle:

- Put the plate on the vacuum table to make the Back exposure or the main exposure.
- If needed, start the vacuum pump.
- Verify the vacuum level.
- Select plate type to produce.
- Verify all the times are correct.
- To start an exposure process, press "START BACK" or "START MAIN" depending of the process you want to start. The machine then proceed an automatic cycle doing first the closing of the lid, the exposure and then opening the lid.
- During all the process the display shows remaining times for BACK or MAIN exposure and the dedicated frame is blinking in green colour.
- At the end of the cycle the buzzer rings, "END" is displayed in the back or main exposure frame, the frames remain in fixed green colour and the lid opens.

***Warning:* During an automatic cycle as well as in manual operation, the safety of the lid is in operation. In case of contact the lid will stop closing and will then open completely. The ongoing exposure cycle is cancelled as well.**

Warning: At the end of cycle the lid will open automatically.

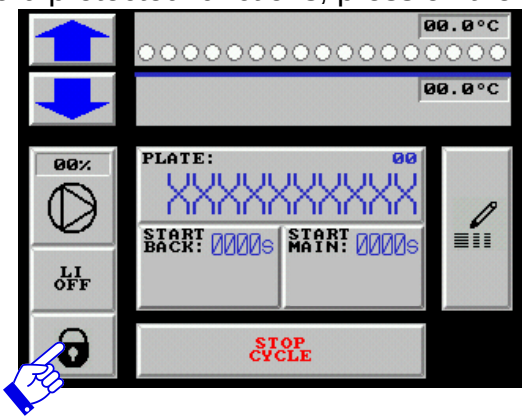
Note: To start a second back exposure or main exposure, it is needed first to "acknowledge" the end of the previous cycle by pressing on the frame. At this point the frame goes back to grey and the display "END" is removed. The machine is now ready to start another back exposure cycle.

Note: It is possible to stop an ongoing cycle by pressing on the dedicated frame. A confirmation dialog box appears asking for the confirmation of stopping the cycle.

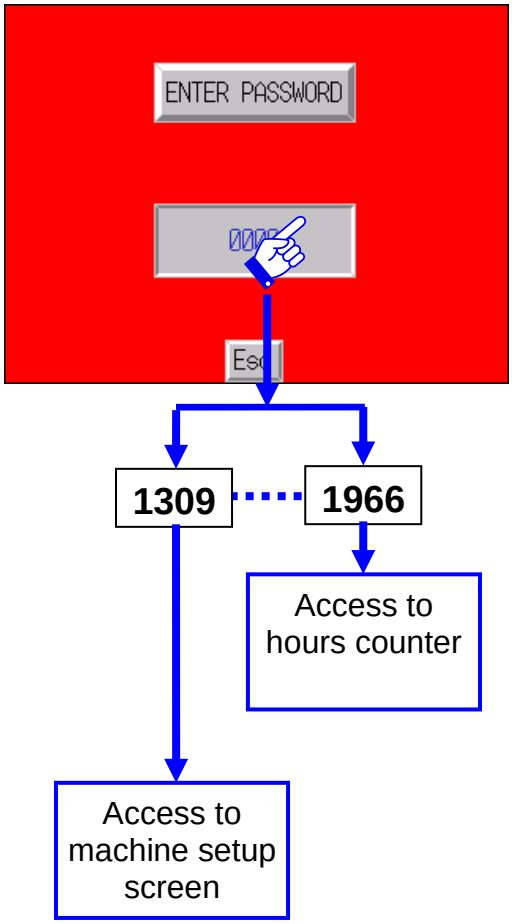
Password protected screens:

***Warning:* All available functions in this section should be accessed by trained and skilled people only. Bad manipulation in this section may result in poor plate quality, damage of the machine or safety risks.**

To access to the password protected functions, press on the following zone.

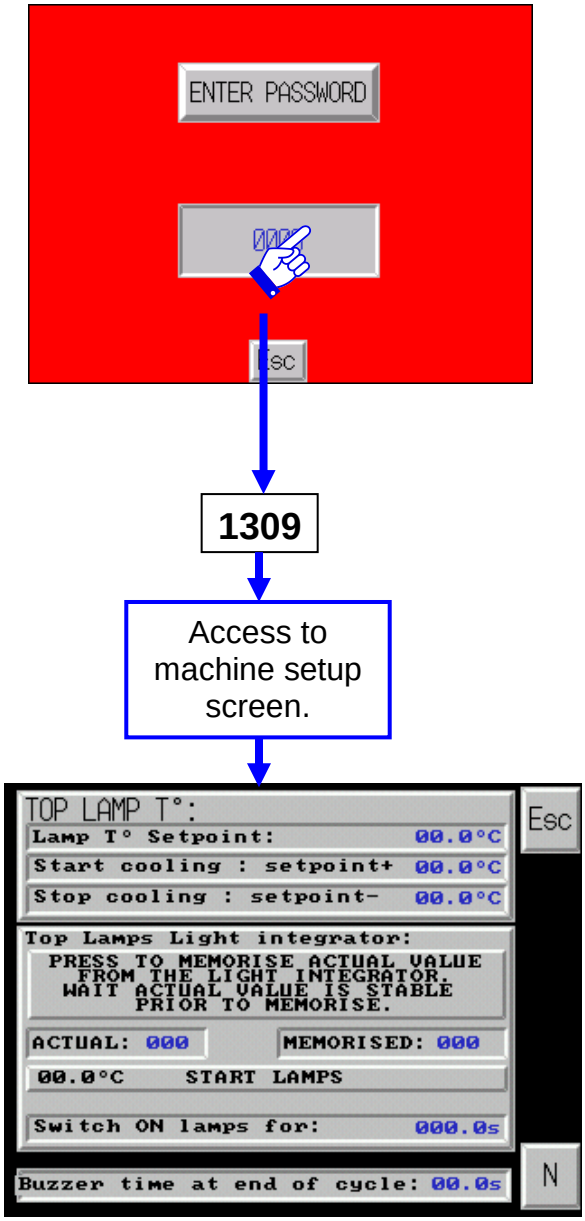


A password screen is then display in order to access password protected sections.

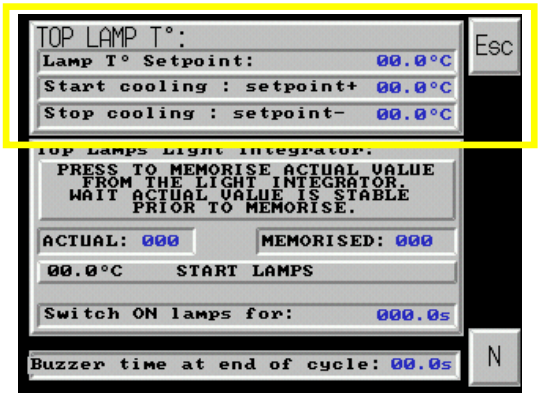


Machine setup:

Warning: ***All available functions in this section should be accessed by trained and skilled people only. Bad manipulation in this section may result in poor plate quality, damage of the machine or safety risks.***



LAMP T°:



The parameters configure the cooling of the top lamps.

- Lamp T° Setpoint:

Define the set point of the lamp temperature.

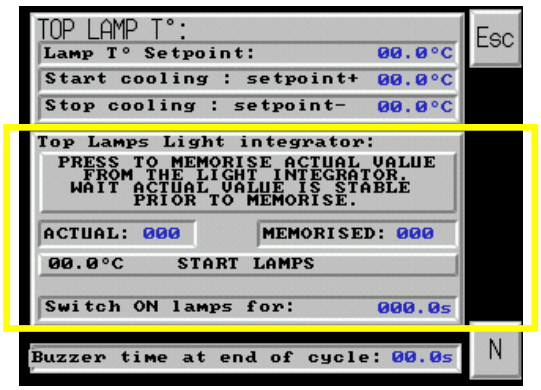
- Start cooling : set point+

Define the temperature where the cooling of the lamp starts. Example: if equal to 0,5°C and set point=to 40°C the cooling of the lamps starts when the temperature is higher than 40,5°C.

- Stop cooling : set point-

Define the temperature where the cooling of the lamp stops. Example: if equal to 0,5°C and set point=to 40°C the cooling of the lamps stops when the temperature is lower than 39,5°C.

Top / Bottom Lamps Light integrator:



This section allwos to configure the light integrator of both Top lamps and Bottom lamps. The procedure is the same for both.

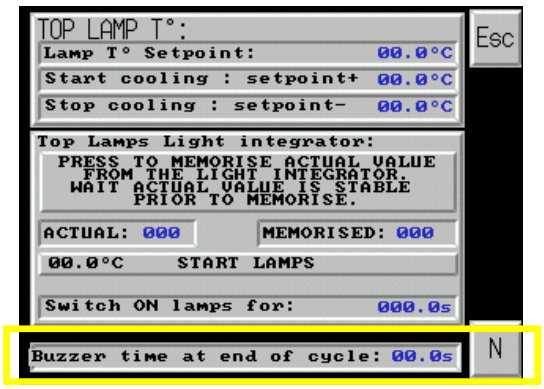
- Press on start lamps to switch on the lamps.
- Wait to have a temperature of about 40°C.
- Wait to have a stable value displayed in “ACTUAL” frame.
- Press on “PRESS TO MEMORISED ACTUAL VALUE…” to memorise the UV output of the lamps.

The lamps automatically switch off after a certain time define in machine setup. It maybe needed to start the lamps a couple of time to reach the correct temperature.

Switch ON lamps for :

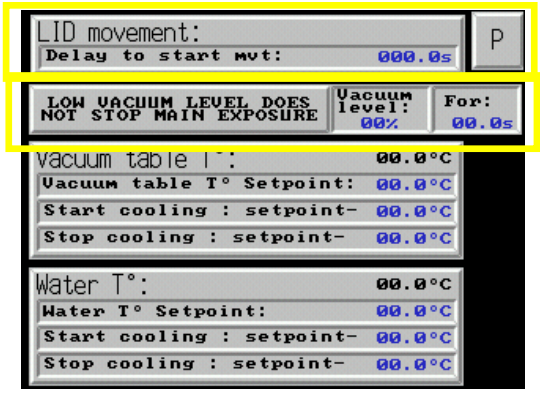
Define the time to keep the lamps ON when they are started to memorised the UV output of the lamps.

Buzzer time at end of cycle:



Define the buzzer time at the end of an exposure cycle.

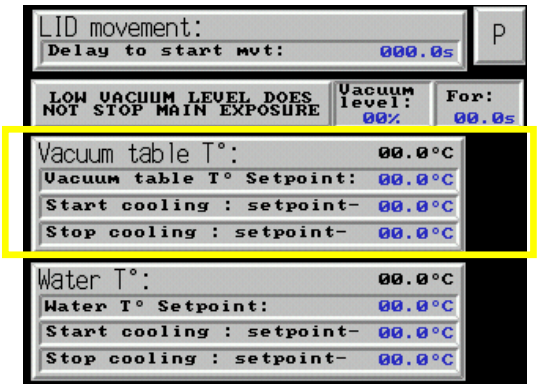
LID movement:



Define the delay time before the lid will open at the end of the exposure time (during this time the buzzer is on to warn the operator for the opening of the lid). When the time has passed the lid will open automatically.

LOW VACUUM LEVEL….:
Press on this touch to enable or disable the function to switch off the lamps if the vacuum is too low during an exposure cycle. The exposure restarts automatically as soon as the vacuum level is higher than the value displayed and after the time displayed in "FOR" frame.

VACUUM TABLE T°:



The parameters configure the cooling of the top lamps.

- Vacuum table T° Setpoint:

Define the set point of the vacuum table temperature.

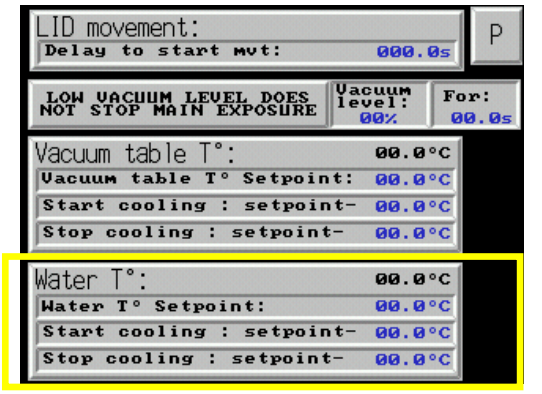
- Start cooling : setpoint-

Define the temperature where the cooling of the vacuum table starts. Example: if equal to 0,5°C and set point=to 40°C the cooling of the vacuum table starts when the temperature is higher than 39,5°C.

- Stop cooling : setpoint-

Define the temperature where the cooling of the vacuum table stops. Example: if equal to 1°C and set point=to 40°C the cooling of the vacuum table stops when the temperature is lower than 39°C.

Water T°:



The parameters configure the cooling of the top lamps.

- Water T° Setpoint:

Define the set point of the water temperature.

- Start cooling : setpoint-

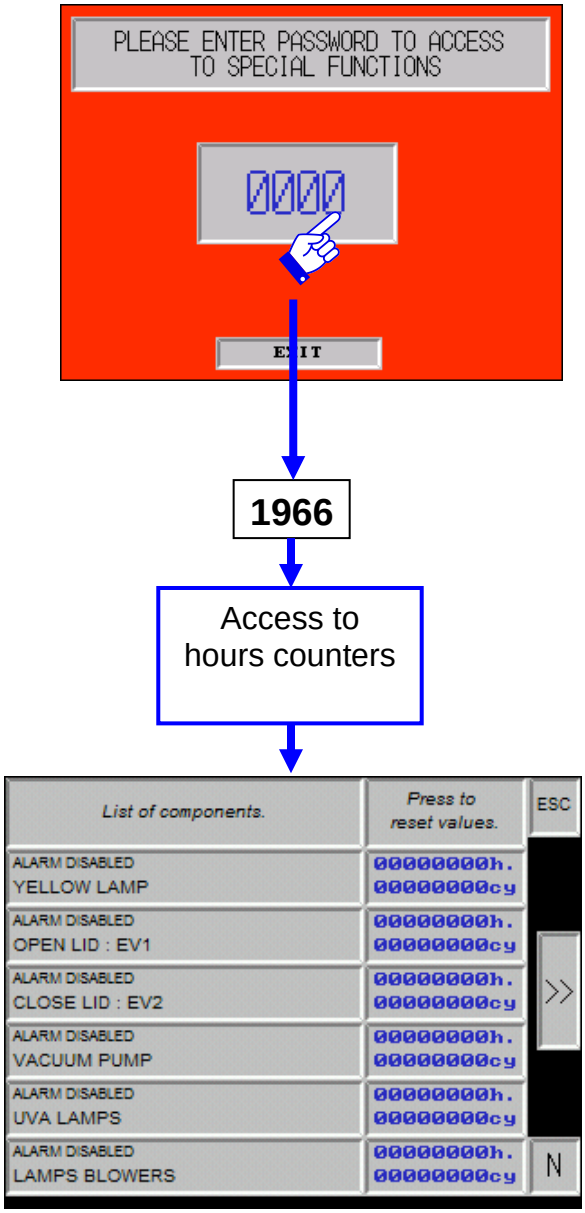
Define the temperature where the cooling of the water starts. Example: if equal to 0,5°C and set point=to 40°C the cooling of the water starts when the temperature is higher than 39,5°C.

- Stop cooling : setpoint-

Define the temperature where the cooling of the water stops. Example: if equal to 1°C and set point=to 40°C the cooling of the water stops when the temperature is lower than 39°C.

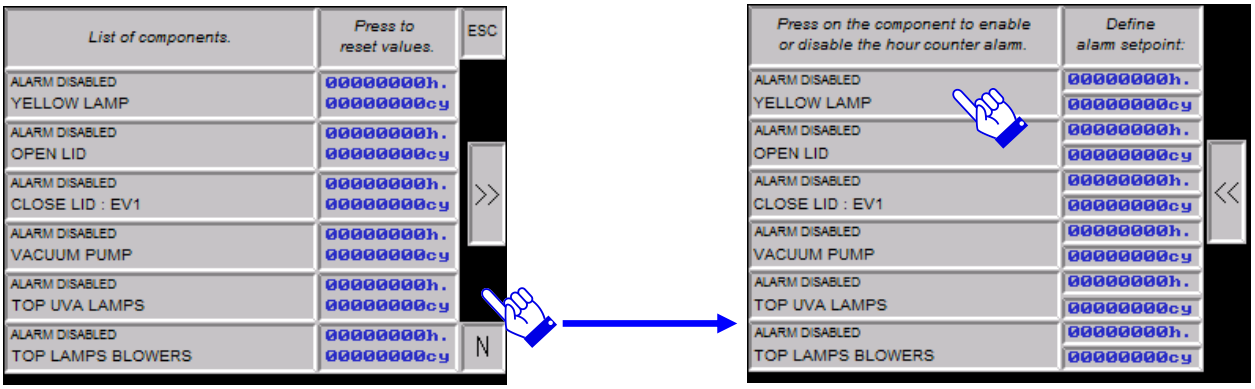
Hours counters:

The following screens give the possibility to define the alarm on all components directly driven by the PLC. The alarm is based on the working time of the component as well as the number of cycle made by the components. It is also possible to define 2 specific alarms based on plate counter.

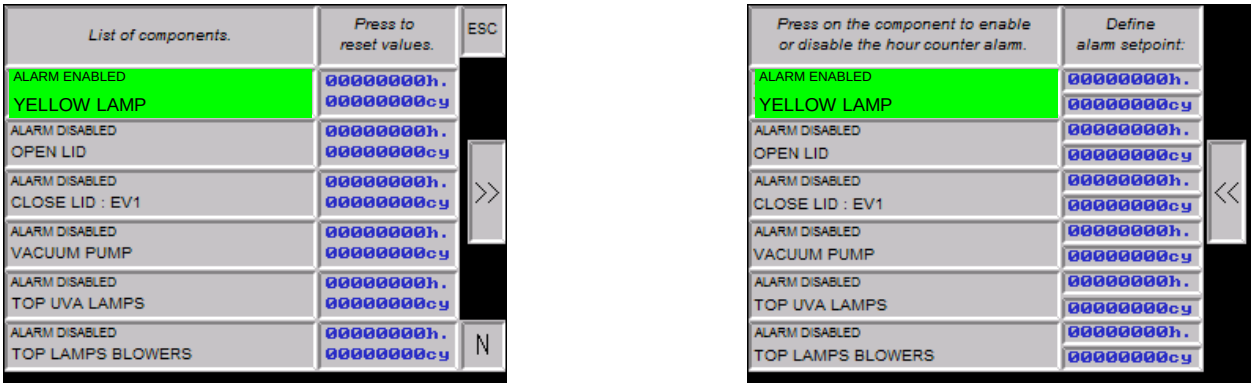


To enable or disable an alarm:

Press on the >> touch to access to the alarm setup screen. Then press on the desired component to enable or disable the alarm. If the alarm is enabled the component's block will be displayed in green colour.



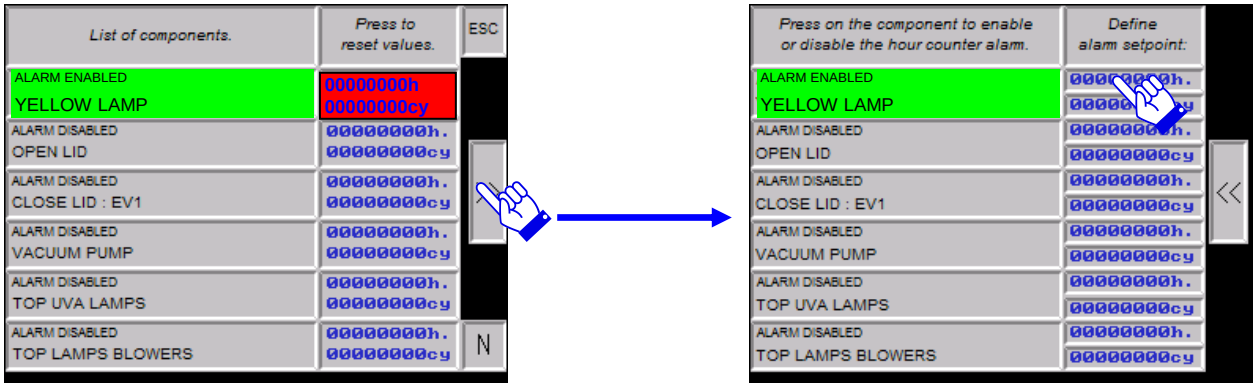
Example of the yellow lamp alarm enabled:



To define the set point where the alarm will be active:

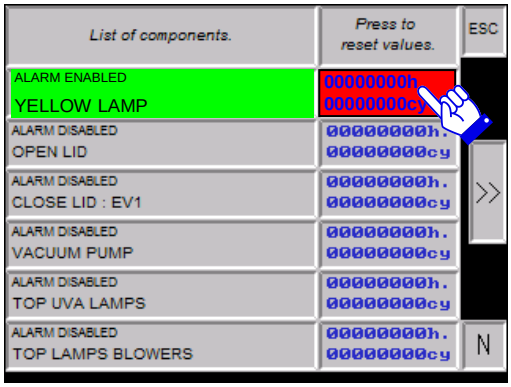
Press on the ">>" touch to access to the alarm setup screen. Then press on the desired value to modify it (hours or cycles).
If the current values of the counters are higher than these set points then alarm will be displayed by changing the colours of the hours counter to red.

Example of an active alarm:

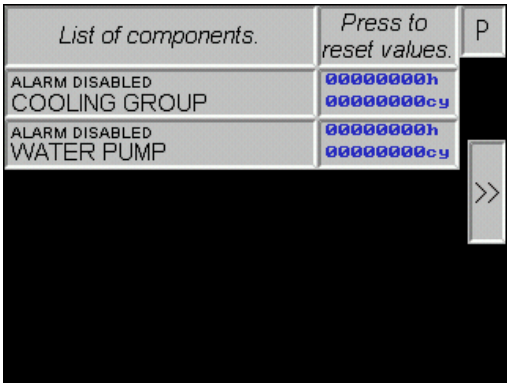


To reset an alarm:

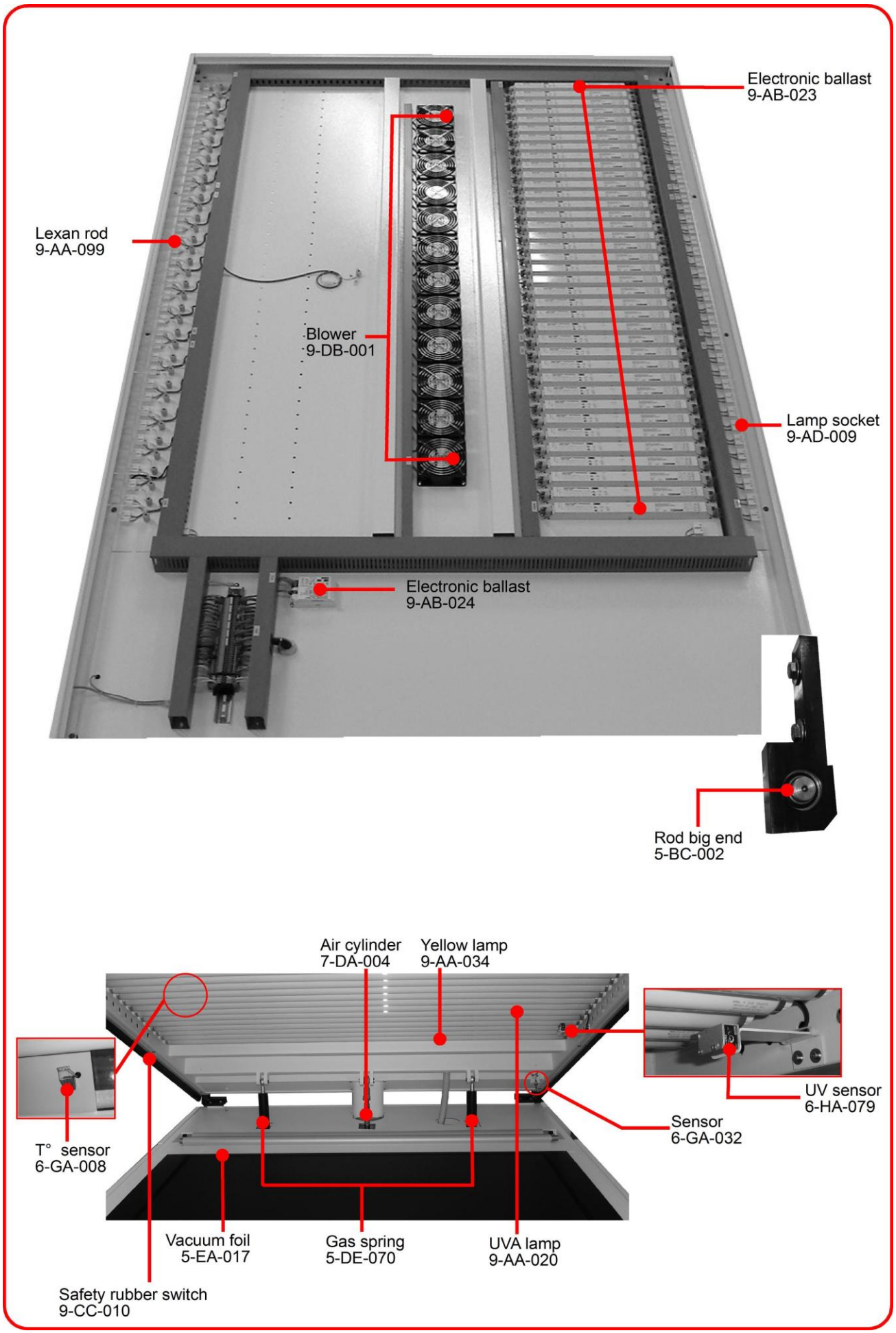
Simply press on the counter values to reset the counters and the alarm will disappear.

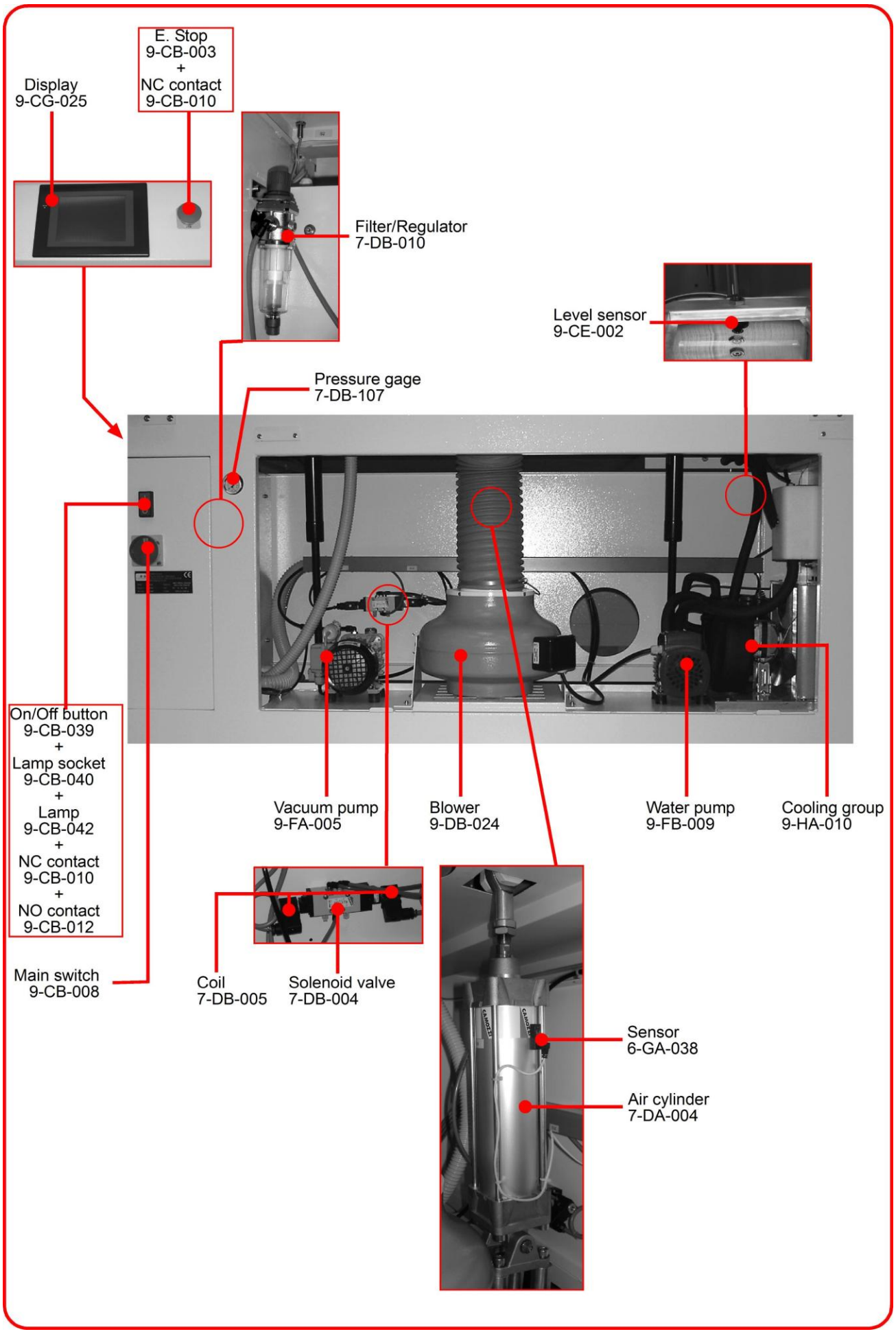


To go to the next page of hours counter simply press on “N”.

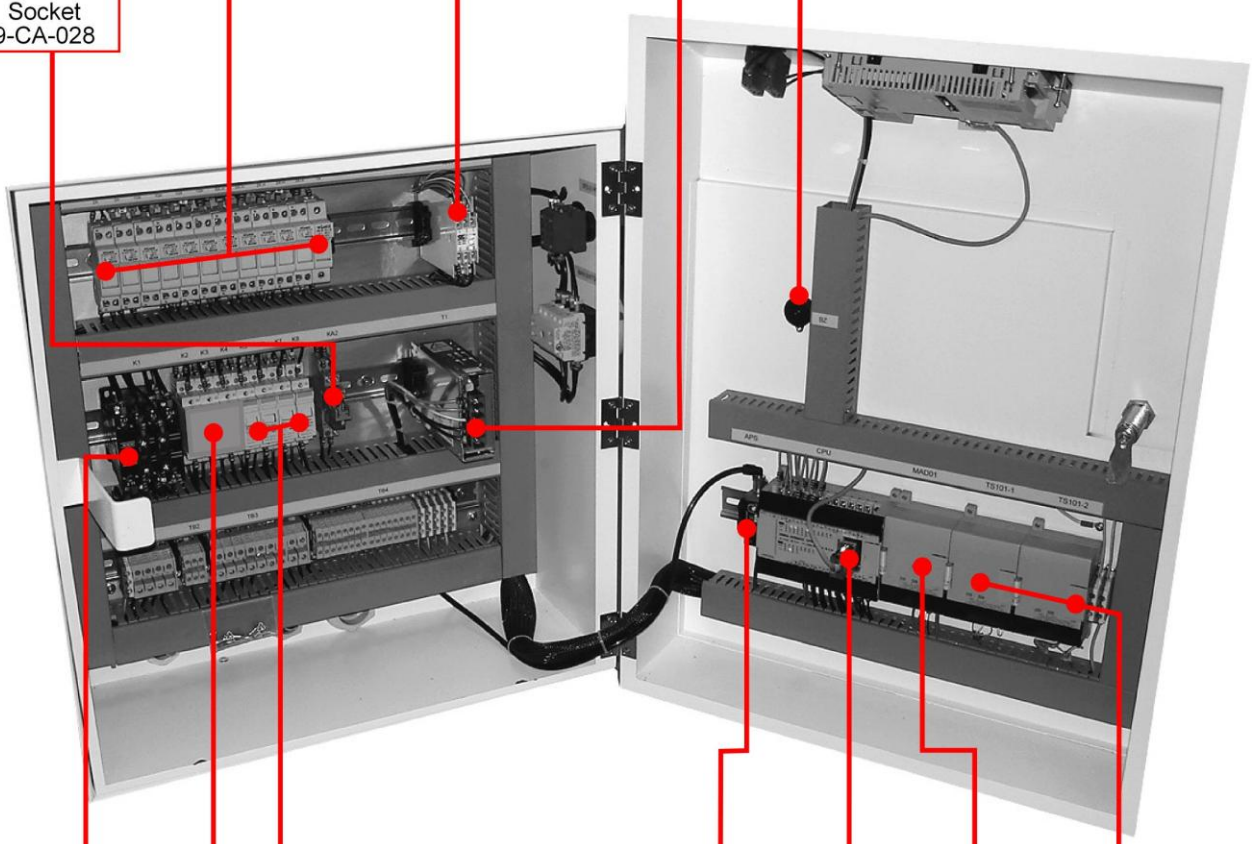


Spare part list:


Electronic ballast
9-AB-023
Lexan rod
9-AA-099
Blower
9-DB-001
Lamp socket
9-AD-009
Electronic ballast
9-AB-024
Rod big end
5-BC-002
Air cylinder
7-DA-004
Yellow lamp
9-AA-034
UV sensor
6-HA-079
Sensor
6-GA-032
T° sensor
6-GA-008
Vacuum foil
5-EA-017
Gas spring
5-DE-070
UVA lamp
9-AA-020
Safety rubber switch
9-CC-010


E. Stop
9-CB-003
+
NC contact
9-CB-010
Display
9-CG-025
Filter/Regulator
7-DB-010
Level sensor
9-CE-002
Pressure gage
7-DB-107
On/Off button
9-CB-039
+
Lamp socket
9-CB-040
+
Lamp
9-CB-042
+
NC contact
9-CB-010
+
NO contact
9-CB-012
Main switch
9-CB-008
Vacuum pump
9-FA-005
Blower
9-DB-024
Water pump
9-FB-009
Cooling group
9-HA-010
Coil
7-DB-005
Solenoid valve
7-DB-004
Sensor
6-GA-038
Air cylinder
7-DA-004

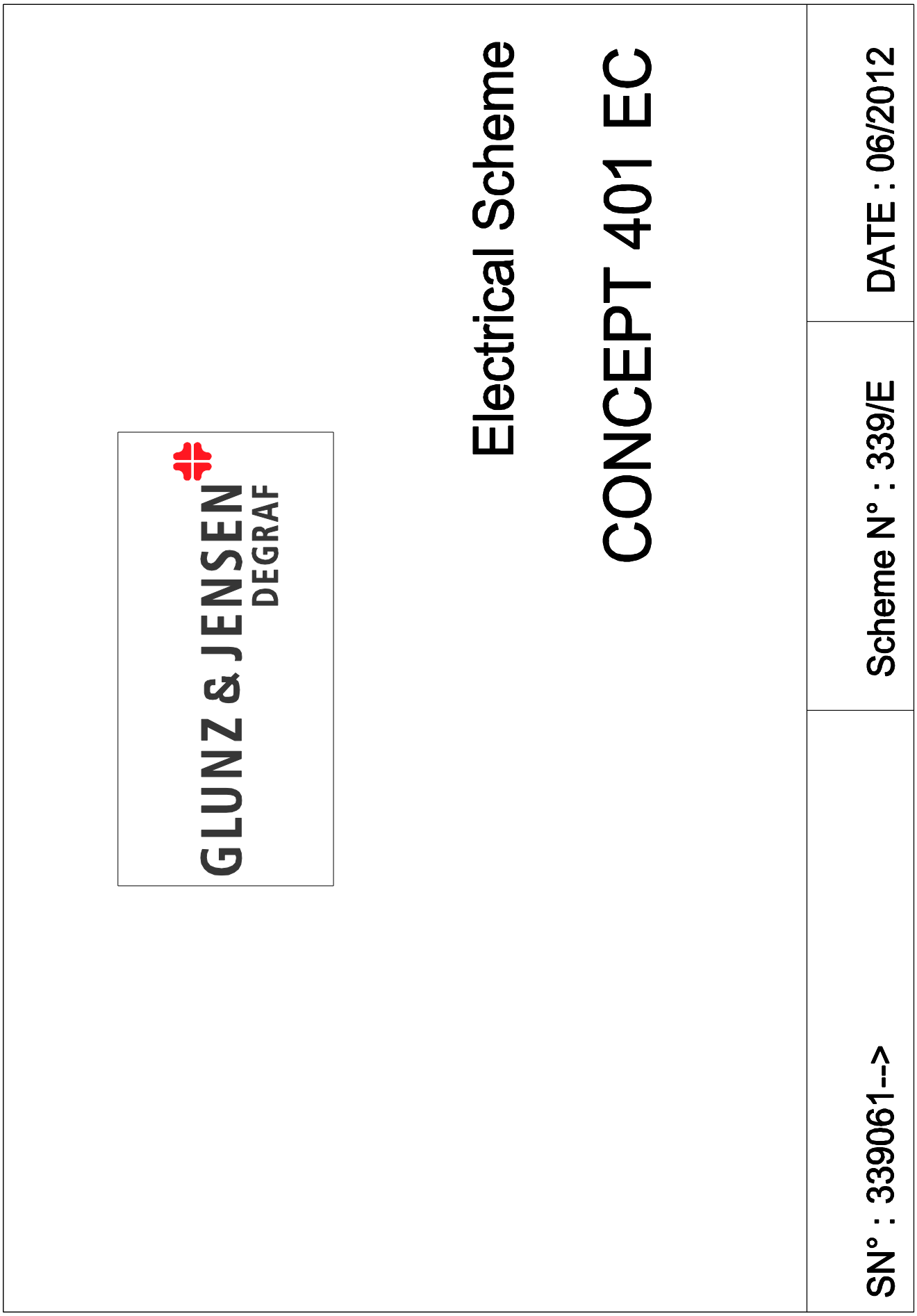
Fuses:	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
9-EA-	026	026	030	030	030	030	017	015	015	015	015	025

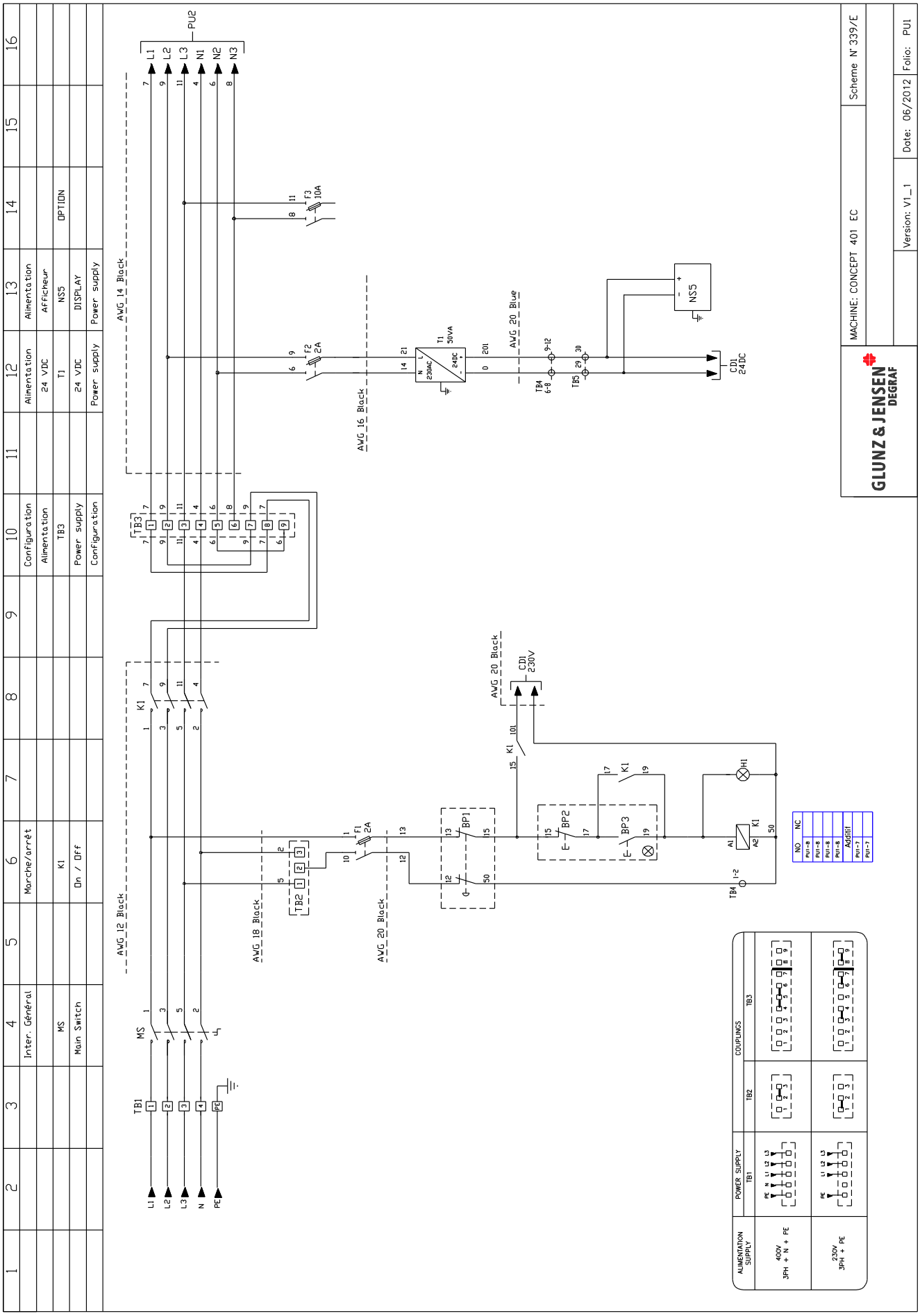


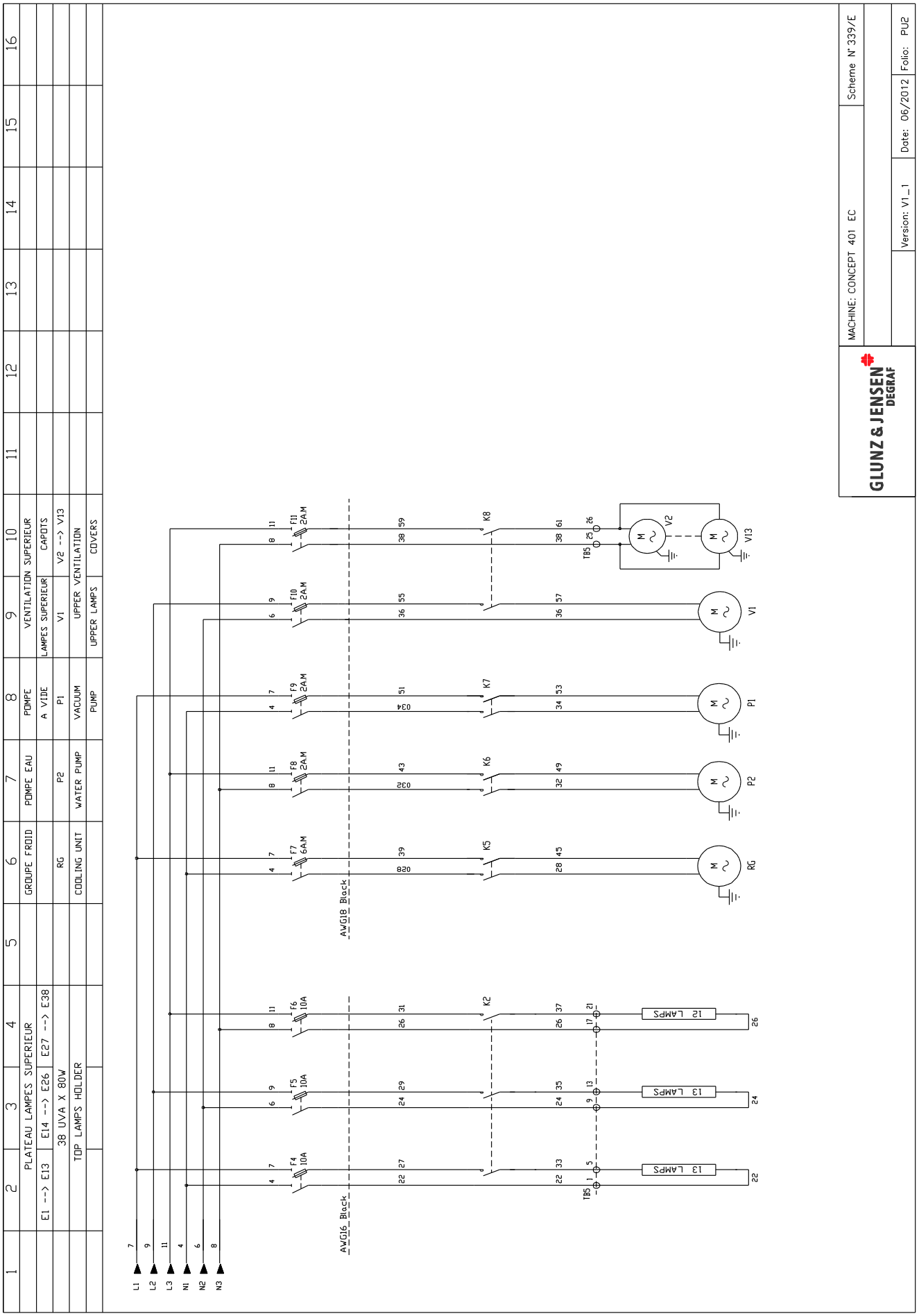
REFERENCE:	DESIGNATION:
5-BC-002	ROD BIG END JAS 17mm
5-DA-006	SCREW M5 x 40
5-DC-002	HINGE NICKELED 40 x 50
5-DE-070	GAS SPRING D42 C300 3200N
5-DH-006	FOOT M16
5-DH-009	THREADED BLOCK M16 50 x 50mm
5-DM-004	SHOCK ABSORBER M6
5-DP-002	PANEL LOCKER (TRIANGLE SHAPE)
5-DP-003	KEY FOR PANEL LOCKER (TRIANGLE SHAPE)
5-DP-005	PANEL LOCKER (TRIANGLE SHAPE) 60 mm
6-GA-008	TEMPERATURE SENSOR PT100 HEL-705-T-0-12-00
6-GA-032	INDUCTIV SENSOR M8
6-GA-038	AIR CYLINDER SENSOR
6-GA-039	VACUUM SENSOR OMRON
6-HA-079	UV SENSOR OMRON F3UV
7-DA-004	AIR CYLINDER 40M2L080A200
7-DB-004	SOLENOID VALVE 468-011-22
7-DB-005	COIL G7J 230V
7-DB-010	AIR FILTER
7-DB-053	CONNECTOR FOR COIL A/77 A/73
7-DB-107	PRESSURE GAUGE D43 P:0-12
9-AA-020	LAMP UVA TL80W / 10R
9-AA-034	LAMP YELLOW 36W
9-AA-099	OPTICAL LEXAN ROD
9-AB-023	ELECTRONIC BALLAST QTP 2 x 58W
9-AB-024	ELECTRONIC BALLAST 1 x 18w
9-AD-009	LAMP SOCKET 229 S SN
9-CA-006	CONTACTOR 22.22.8.230
9-CA-028	SOCKET FOR CONTACTOR TYPE 44
9-CA-030	CONTACTOR CS 40.52.8.230
9-CA-056	SAFETY RELAY FOR SAFETY RUBBER SWITCH
9-CA-117	CONTACTOR DILM-2510
9-CB-003	EMERGENCY STOP BUTTON
9-CB-008	MAIN SWITCH BRETTER
9-CB-010	CONTACT NC-CGP9B01VN BRETER
9-CB-012	CONTACT NO - BRETER CGP9B10VN
9-CB-029	EMERGENCY STOP LABEL
9-CB-039	PUSH BUTTON ON/OFF
9-CB-040	PUSH BUTTON LAMP SOCKET
9-CB-042	NEON LAMP 230V 1.2W
9-CC-010	SAFETY RUBBER SWITCH (2000)
9-CE-002	LEVEL SENSOR LEM 6CNA
9-CG-009	EXTENSION MODULE : 2 x PT100 + 1 ANALOG OUTPUT
9-CG-010	POWER SUPPLY 230/24VDC 50W
9-CG-015	EXTENSION MODULE : 2 IN + 1 OUT ANALOG
9-CG-025	TOUCH SCREEN NS5
9-CG-026	PLC 18I/12O 24 VDC CPM2A
9-CG-201	CONTACTOR TETRA 11 kW
9-CG-202	ADDITIONAL CONTACT 1NF
9-DB-001	BLOWER PAPST DA 120 220V
9-DB-003	GRID FOR BLOWER D120

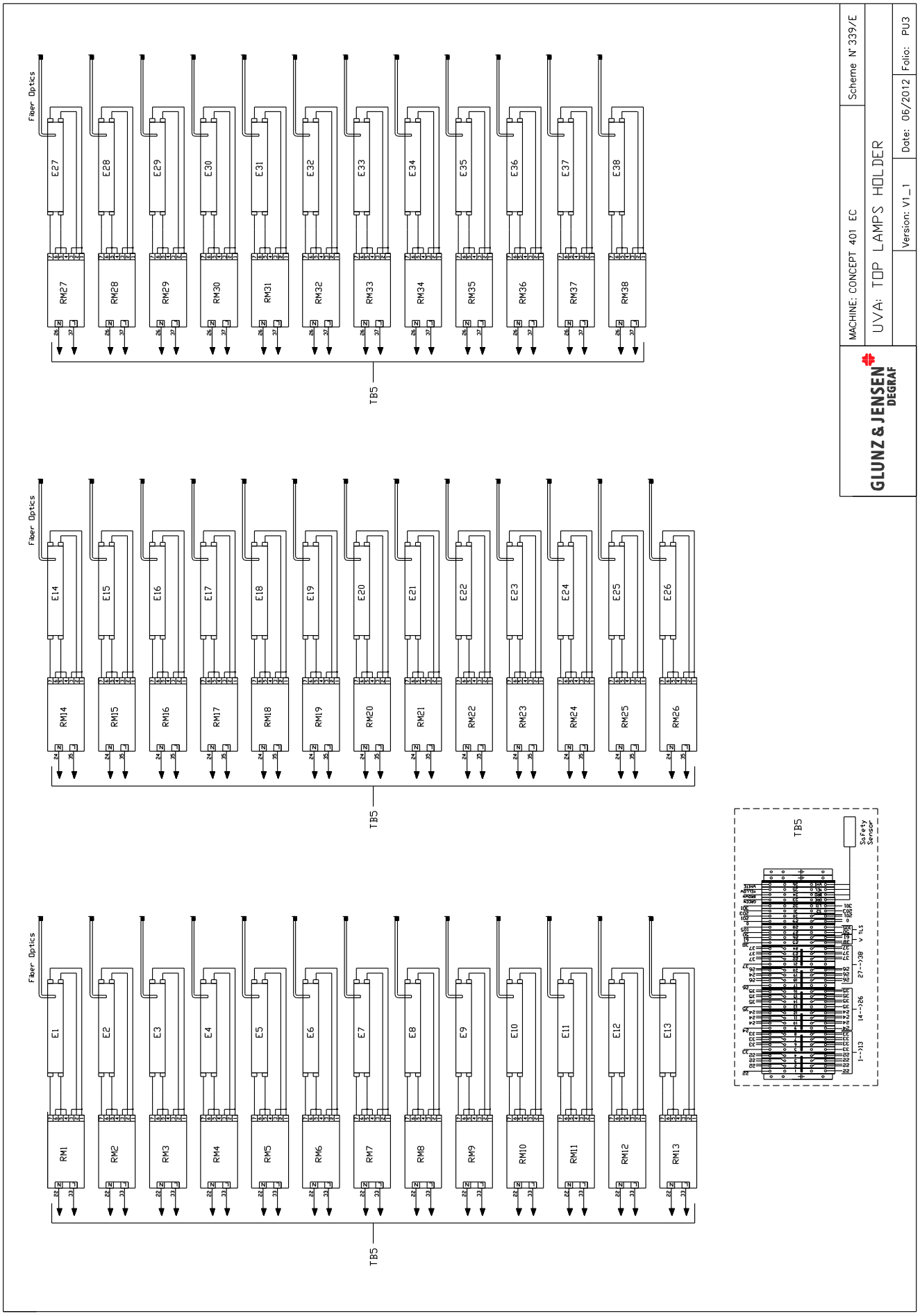
REFERENCE:	DESIGNATION:
9-DB-024	BLOWER AXC 200
9-EA-004	FUSE HOLDER VIMEX 32A
9-EA-015	FUSE 10 x 38 2A AM
9-EA-017	FUSE 10 x 38 6A AM
9-EA-025	FUSE 10 x 38 1A
9-EA-026	FUSE 10 x 38 2A GG
9-EA-030	FUSE 10 x 38 10A GG
9-EB-035	BUZZER D50 12V
9-FA-005	VACUUM PUMP DVP SB6
9-FB-009	PUMP PEDROLLO PVM55
9-HA-010	COOLING GROUP 230/50/60 TIP B

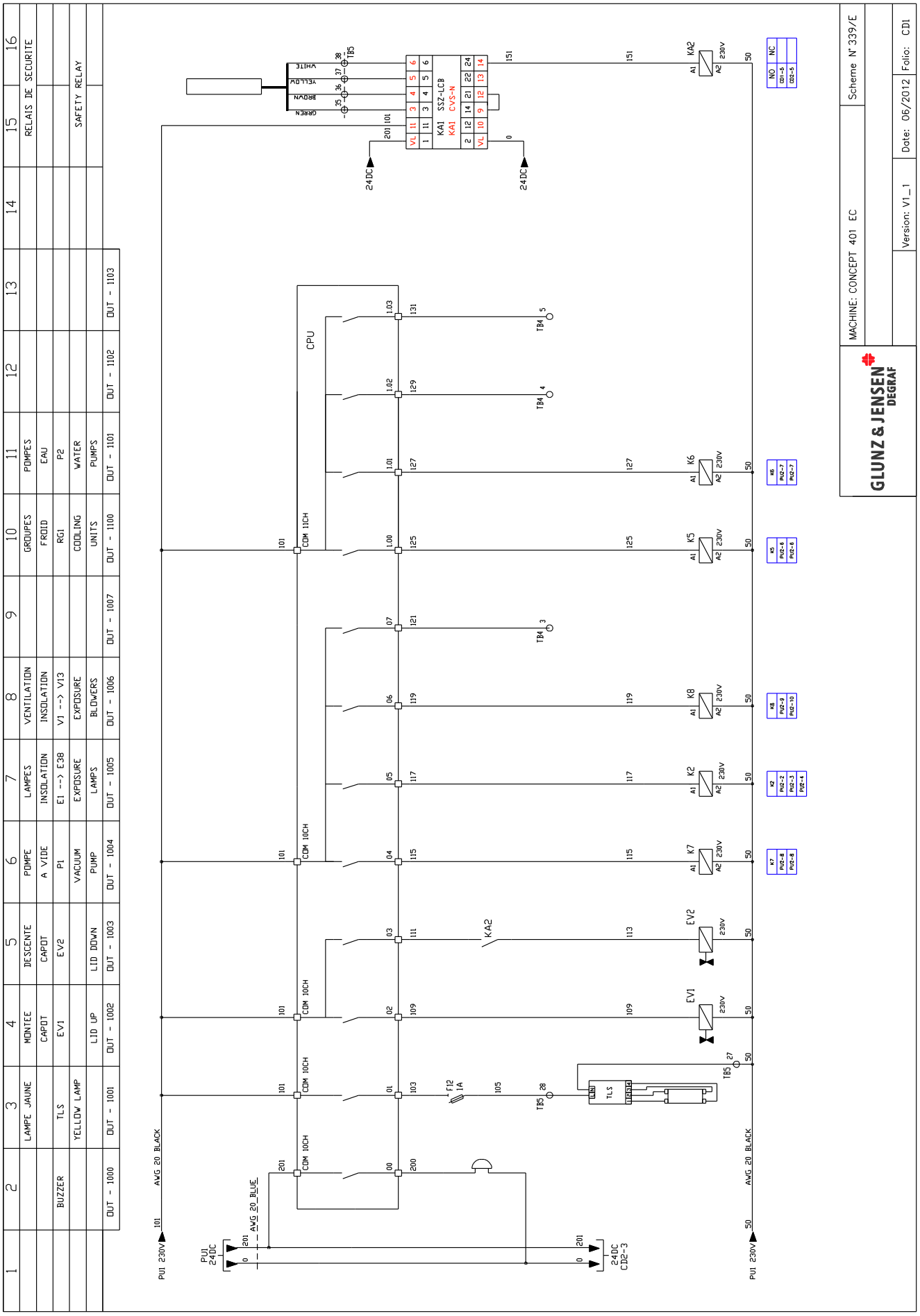
Electrical scheme:

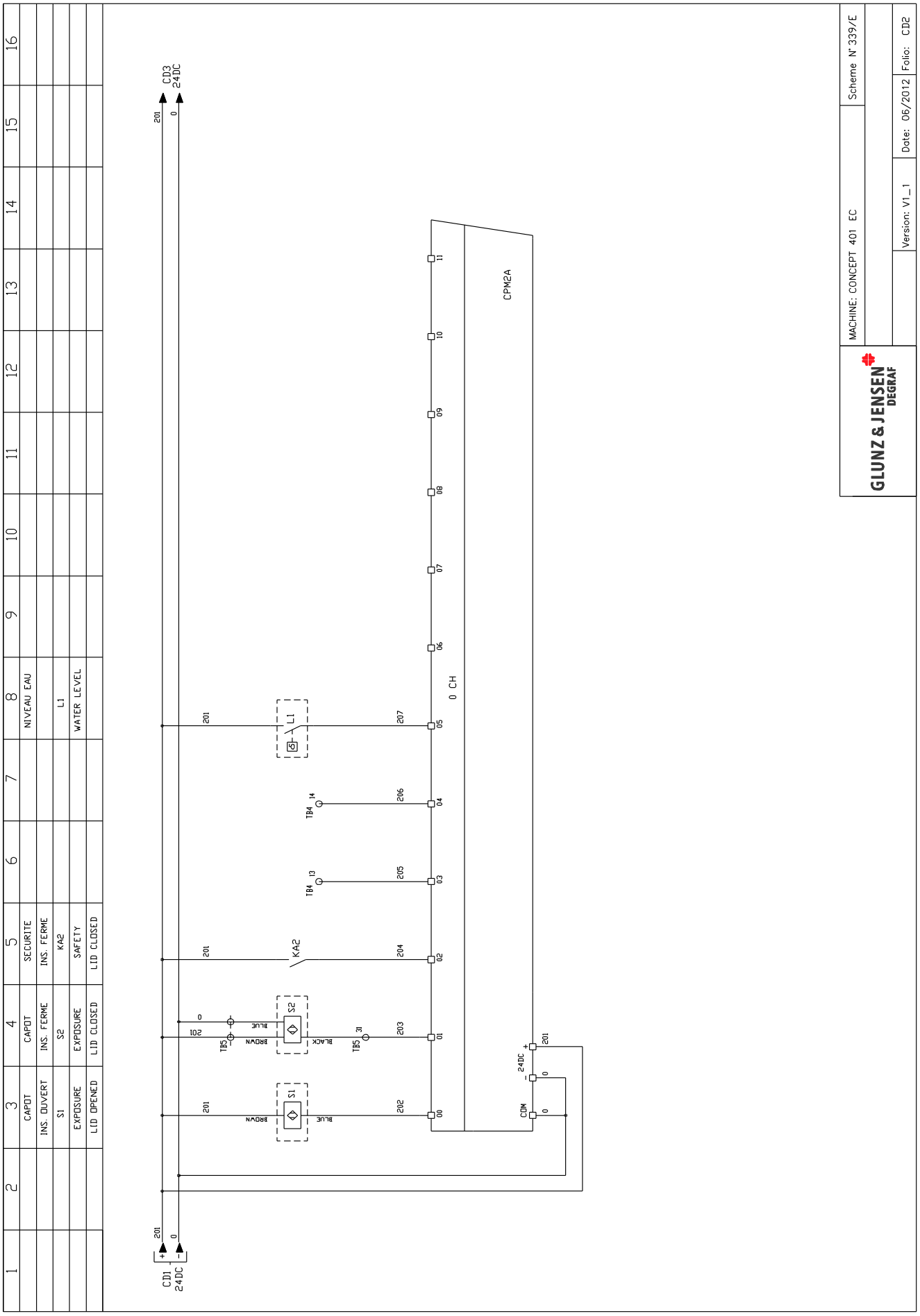


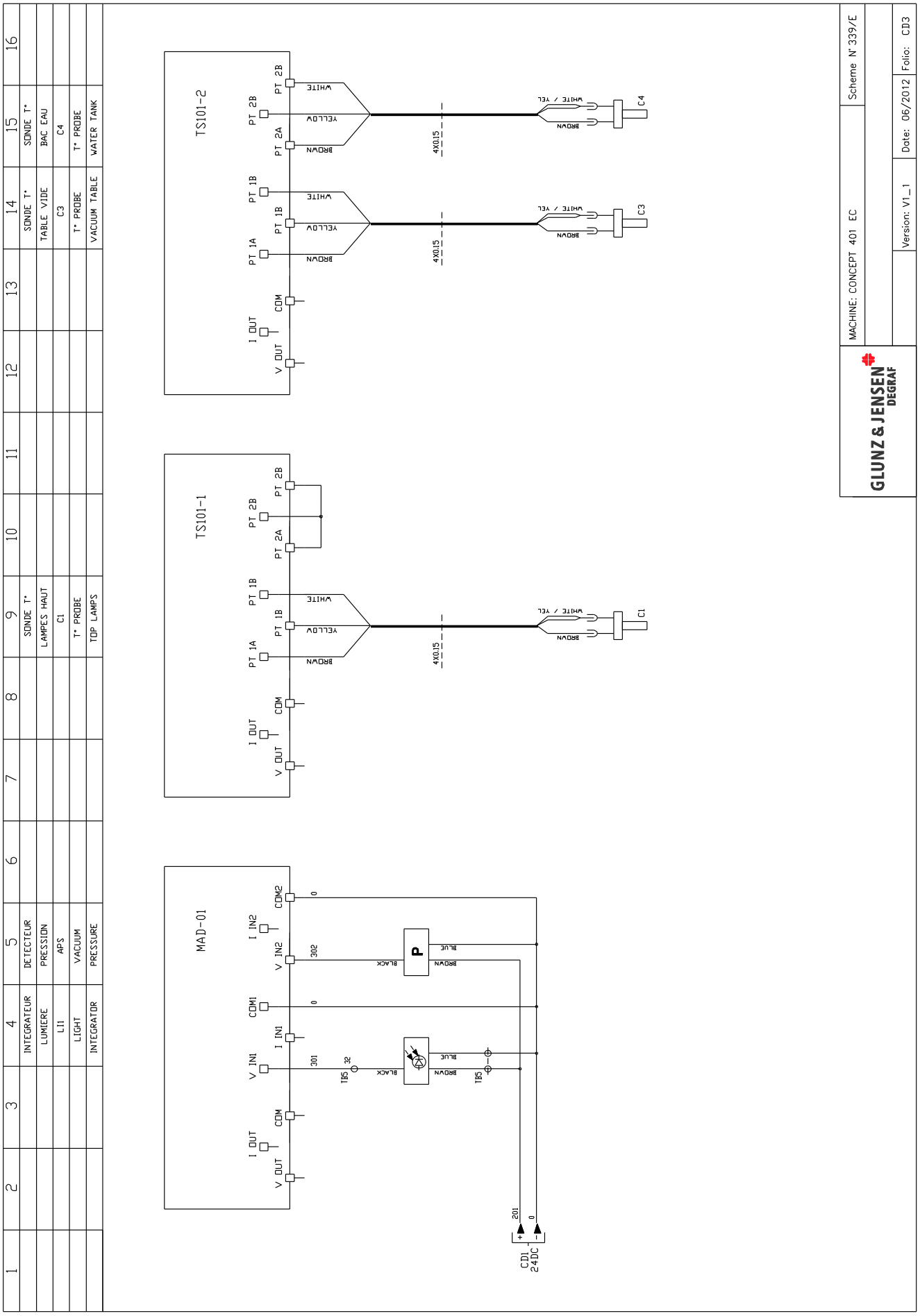

MACHINE: CONCEPT 401 EC
Scheme N° 339/E
Version: V1_1
Date: 06/2012
Folio: PU1
GLUNZ & JENSEN DEGRAF
AWG 14 Black
AWG 16 Black
AWG 20 Blue
AWG 20 Black
AWG 12 Black
AWG 18 Black
AWG 20 Black
Inter. Général
Marche/arrêt
Configuration
Alimentation
Alimentation
Alimentation
Alimentation
Afficheur
24 VDC
24 VDC
24 VDC
Power supply
Power supply
Power supply
Power supply
Configuration
Main Switch
On / Off
MS
K1
TB1
TB2
TB3
TB4
TB5
T1
50VA
CD1
24DC
CD1
230V
NS5
OPTION
DISPLAY
ALIMENTATION SUPPLY
POWER SUPPLY
COUPLINGS
400V
3PH + N + PE
230V
3PH + PE

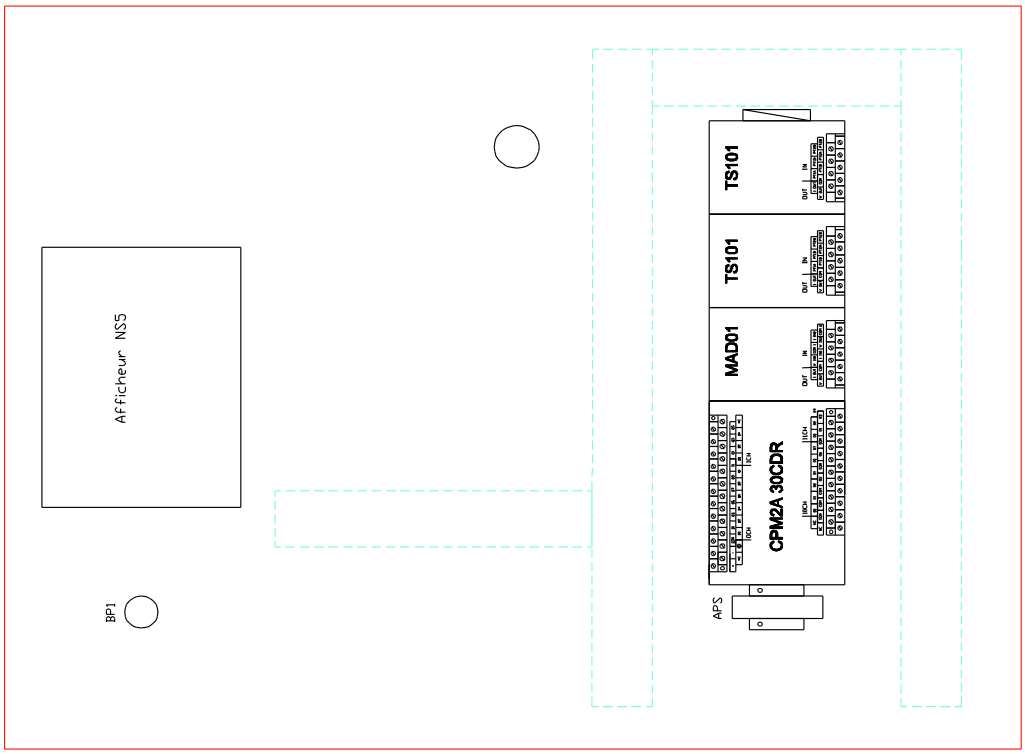

PLATEAU LAMPES SUPERIEUR
E1 --> E13
E14 --> E26
E27 --> E38
38 UVA X 80W
TOP LAMPS HOLDER
GROUPE FROID
COOLING UNIT
POMPE EAU
WATER PUMP
POMPE
A VIDE
P1
P2
RG
VACUUM
PUMP
VENTILATION SUPERIEUR
LAMPES SUPERIEUR
CAPOTS
V1
V2 --> V13
UPPER VENTILATION
UPPER LAMPS
COVERS
AWG16 Black
AWG18 Black
L1
L2
L3
N1
N2
N3
F4 10A
F5 10A
F6 10A
F7 6A,M
F8 2A,M
F9 2A,M
F10 2A,M
F11 2A,M
K2
K5
K6
K7
K8
13 LAMPS
13 LAMPS
12 LAMPS
TB5
V1
V2
V13
P1
P2
RG
MACHINE: CONCEPT 401 EC
Scheme N°339/E
GLUNZ & JENSEN
DEGRAF
Version: V1_1
Date: 06/2012
Folio: PU2

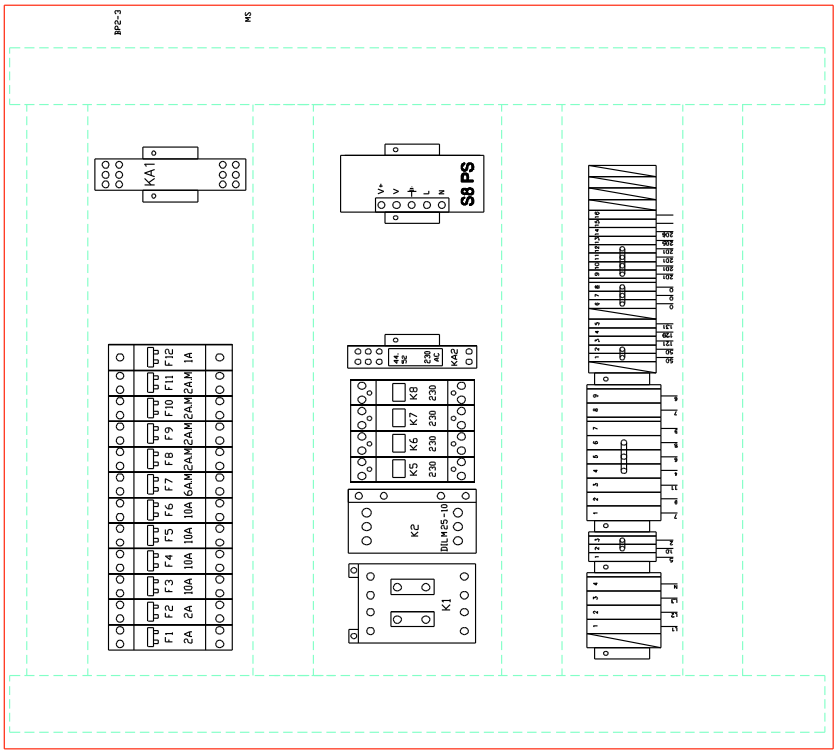

Fiber Optics
E27
E28
E29
E30
E31
E32
E33
E34
E35
E36
E37
E38
RM27
RM28
RM29
RM30
RM31
RM32
RM33
RM34
RM35
RM36
RM37
RM38
TB5
Fiber Optics
E14
E15
E16
E17
E18
E19
E20
E21
E22
E23
E24
E25
E26
RM14
RM15
RM16
RM17
RM18
RM19
RM20
RM21
RM22
RM23
RM24
RM25
RM26
TB5
Fiber Optics
E1
E2
E3
E4
E5
E6
E7
E8
E9
E10
E11
E12
E13
RM1
RM2
RM3
RM4
RM5
RM6
RM7
RM8
RM9
RM10
RM11
RM12
RM13
TB5
TB5
Safety Sensor
1-->13
14-->26
27-->38
GLUNZ & JENSEN
DEGRAF
MACHINE: CONCEPT 401 EC
UVA: TOP LAMPS HOLDER
Scheme N°339/E
Version: V1_1
Date: 06/2012
Folio: PU3


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
LAMPE JAUNE
MONTEE
DESCENTE
POMPE
LAMPES
VENTILATION
GROUPES
POMPES
RELAIS DE SECURITE
CAPOT
CAPOT
A VIDE
INSOLATION
INSOLATION
FROID
EAU
BUZZER
TLS
EV1
EV2
P1
E1 --> E38
V1 --> V13
RG1
P2
YELLOW LAMP
VACUUM
EXPOSURE
EXPOSURE
COOLING
WATER
SAFETY RELAY
LID UP
LID DOWN
PUMP
LAMPS
BLOWERS
UNITS
PUMPS
OUT - 1000
OUT - 1001
OUT - 1002
OUT - 1003
OUT - 1004
OUT - 1005
OUT - 1006
OUT - 1007
OUT - 1100
OUT - 1101
OUT - 1102
OUT - 1103
CPU
COM 11CH
COM 10CH
KA1 SSZ-LCB
KA1 CVS-N
KA2
EV1
EV2
K2
K5
K6
K7
K8
TLS
F12 1A
TB4
TB5
AWG 20 BLACK
AWG 20 BLUE
PU1 230V
PU1 24DC
24DC CD2-3
24DC
NO
NC
MACHINE: CONCEPT 401 EC
Scheme N°339/E
Version: V1_1
Date: 06/2012
Folio: CD1
GLUNZ & JENSEN DEGRAF


CAPOT
INS. OUVERT
S1
EXPOSURE
LID OPENED
CAPOT
INS. FERME
S2
EXPOSURE
LID CLOSED
SECURITE
INS. FERME
KA2
SAFETY
LID CLOSED
NIVEAU EAU
L1
WATER LEVEL
CD1 24DC
CD3 24DC
CPM2A
0 CH
KA2
S1
S2
L1
TB4
TB5
BROWN
BLUE
BLACK
COM
MACHINE: CONCEPT 401 EC
Scheme N° 339/E
Version: V1_1
Date: 06/2012
Folio: CD2
GLUNZ & JENSEN DEGRAF


TS101-2
TS101-1
MAD-01
PT 2B
PT 2A
PT 1B
PT 1A
I OUT
V OUT
COM
WHITE
YELLOW
BROWN
WHITE / YEL
4X0.15
C4
C3
C1
I IN2
V IN2
COM2
COM1
I IN1
V IN1
BLACK
BLUE
P
TB5
CD1
24DC
INTEGRATEUR
DETECTEUR
LUMIERE
PRESSION
LI1
APS
LIGHT
VACUUM
INTEGRATOR
PRESSURE
SONDE T°
LAMPES HAUT
TOP LAMPS
TABLE VIDE
BAC EAU
T° PROBE
VACUUM TABLE
WATER TANK
MACHINE: CONCEPT 401 EC
Scheme N° 339/E
Version: V1_1
Date: 06/2012
Folio: CD3
GLUNZ & JENSEN
DEGRAF





MACHINE: CONCEPT 401 EC
Scheme N°339/E
Version: V1_1
Date: 06/2012
Folio: IMP
GLUNZ & JENSEN DEGRAF

Eng. version AB: *18/03/2014*
Naming changed to 401 EC, new logos, CE certificate removed.

Eng. version AA: *04/06/2012 From SN° 339061*
New contactor for lamps.

Eng. version V1.0: *25/10/2006*