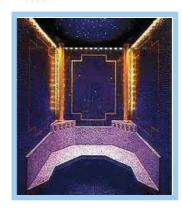
ELECTRO MAP

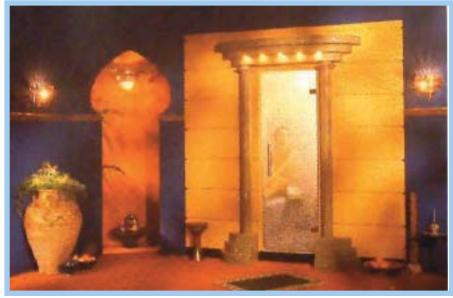


Steam bath Bath vapeur









Steam bath EG/HG Contents

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Electro Vap MC Steam bath



Safety information

Important

This section should be read carefully to ensure the safe and correct installation of your steam bath.

GENERAL

This manual contains all details necessary for the planning and installation of the ElectroVap EG/HG steam bath. In addition commissioning and maintenance details are included.

The manual is intended for use by engineers and properly trained technical personnel. Maintenance, servicing or repair work must only be carried out by suitable skilled and qualified personnel, the customer must be responsible for ensuring their suitability.

Any risks or hazards, especially when working from ladders or towers should be identified by a skilled and Health and Safety representative and effective control measure put in place.

No liability will attach to the Distributor if any damage, injury or accident is attributable to inattentive, inappropriate, negligent or incorrect operation of the machinery whether or not caused deliberately. Always isolate all electrical and water supplied before commencing any maintenance.

Every effort has been made to ensure details contained in this manual are correct, however, in view of the wide range of conditions experienced in air handling systems, the information provided should only be used as a guide. Please contact your Agent if any doubt.

CORRECT USE

ElectroVap MC steam bathes are ONLY intended for use with air handling systems or direct air humidification. ANY OTHER APPLICATION IS NOT CONSIDERED USE FOR THE INTENDED PURPOSE. THE MANUFACTURER CANNOT BE MADE LIABLE FOR ANY DAMAGE RESULTING FROM INCORRECT USE.

WATER

ElectroVap MC steam bathes are designed to be used with mains, demineralized R/O or softened water. On no account attempt to introduce any other fluid or chemical into the system. Water supply should not exceed 6.0 bar and installation should comply with local regulations.

ELECTRICITY



All work concerned with electrical installation MUST only be performed by skilled and qualified technical personnel (eg electrician or technicians with appropriate training). The customer MUST be responsible for ensuring their suitability.

It is the duty of the installer to ensure that suitable sized cables and MCB protection is provided. Please observe the local regulations concerning the provision of electrical installations.

WARRANTY

Failure to specify and fit original parts and accessories will invalidate your warranty.

NOTE

Our policy is one of continuous research and development. We therefore reserve the right to amend without notice the specifications given in this document.

The photographs are for illustrating purposes only.

Product accreditation

CE DIRECTIVE APPLIED

Electromagnetic Compatibility Directive: Low Voltage Directive: Machinery Directive: 89/336/EEC, 2004/108/EC 73/23/EEC, 2006/95/EC 98/37/EC Amending Directive 89/392/EEC

Standard(s) to which Conformity is declared:

EN 61000-6-3: Electromagnetic compatibility generic requirements (residential, commercial, and light industry

- EN 55022 class B conducted and radiated emission limits

EN 61000-6-2: Electromagnetic compatibility (EMC)- Generic standards- Immunity for industrial environments;

- EN 61000-4-3: Radiated, radio frequency, electromagnetic field immunity test.
- EN 61000-4-6: Immunity to conducted disturbances induced by radio frequency fields.
- EN 61000-4-4: Electrical fast transient/burst immunity test.
- EN 61000-4-5: Surge immunity test.
- EN 61000-4-2: Electrostatic discharge immunity test.

EN 60204-1: Safety of machinery – Electrical Equipment of machines – Part 1: General requirements.

EN 292 Parts 1 & 2: Safety of machinery basic principle mechanical design.

Manufacturer's Name and Address

DEVATEC SAS Rue Saint Eloi 76550 Ambrumesnil - FRANCE

Authorised Representative

Type of equipment: Steam Humidifier

Model Name (s) & Series: ELECTROVAP MC/ELMC

Year of Manufacture: 2001

We the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s) and Standard(s).

Signature:

Name: FRAMBOT Jean-François Position: General Manager

Date: 05.06.2008

ElectroVap MC RoHS declaration

DEVATEC SAS

Rue Saint Eloi 76550 Ambrumesnil France

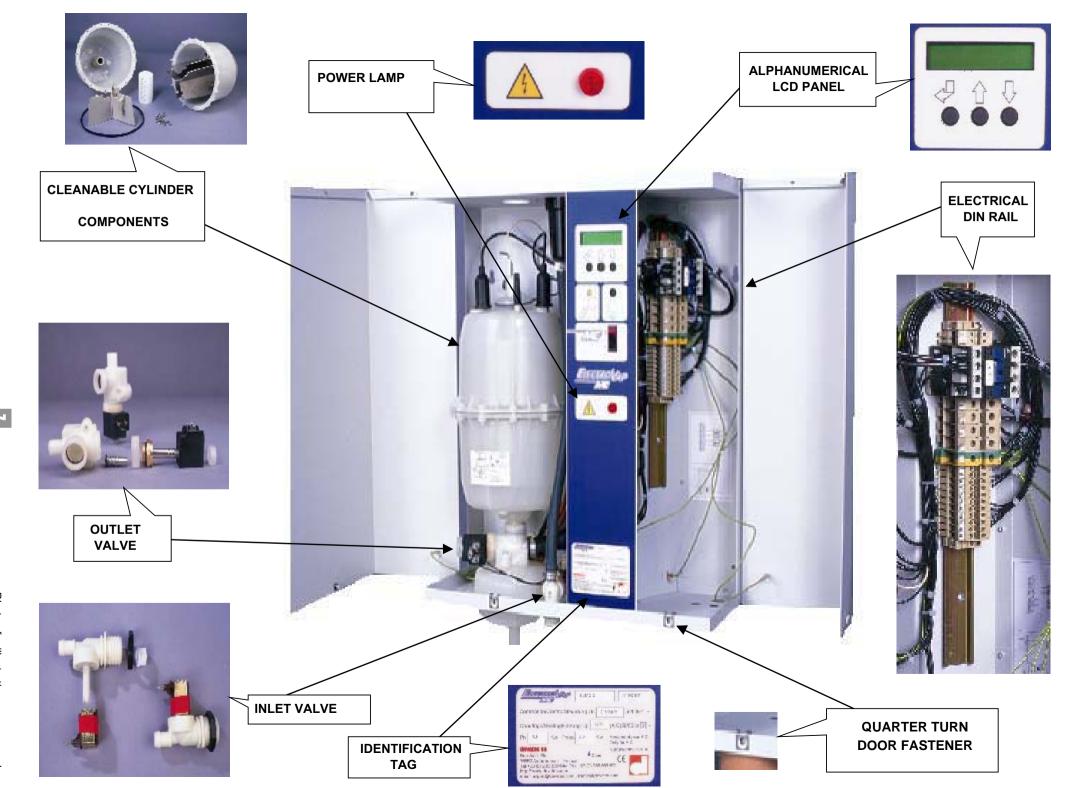
Confirms that the ElectroVap ELMC steam humidifier is manufactured in compliance with the European regulations 2002/95/EU (RoHS).

This guideline regulates after July 1st 2006 the use of mercury, cadmium, lead (soldering processes), chrome VI as well as PBB and PBDE. ELMC steam humidifiers manufactured previously to this date may contain above materials.

Signature:

Name: MINFRAY Jean-Marie Position: R & D Engineer

Date: 05.06.2008



Photos for illustrating purposes only

Determination of the steam generator

Volume mini/maxi of the steam bath (m3)		9			
	ω F	Steam	Model of the steam	legimoN	May Dower
Wall in tiling,ciment, Prostones etc.	5	pioductio n in	generator	Power in KW	inax rowa in KW
Vithout	_	KG/HR			
ventilation					
Max 1 5	1	2	ELMC 5 EG/HG	3,76	4,00
Max 3 5	,	8	ELMC 8 EG/HG	6,02	6,63
2 5 -8	Ì	10	ELMC 10 EG/HG	7,52	8.21
2 5 -8	1	10	ELMC 10 EG/HG	7,52	8,21
7 - 16	1	15	ELMC 15 EG/HG	11,29	12,18
14 - 20	۱ ۱	20	ELMC 20 EG/HG	15,05	16,07
18 - 30	,	30	ELMC 30 EG/HG	22,57	24,01
28 - 40	,	40	ELMC 40 EG/HG	30,10	31,94
38 - 52	,	40	ELMC 40 EG/HG	30,10	31,94
48 - 60	,	20	ELMC 50 EG/HG	37,62	39,88
58 - 72		90	ELMC 60 EG/HG	45,14	47,74
68 - 102		00	ELMC 90 EG/HG	67.65	71,55

ELMC EG: Unit + remote control cabinet+ T°C sensor.

ELMC HG: Unit with integrate generator + T°C sensor.

Electro Vap MC Steam bath

Unit wall installation

Unit mounting



Unpack the ELMC steam bath generator and check for any damage.



Damage to packing and/or unit must be reported by registered letter to carrier within 3 working days.





Provide free space all around the unit: 1 m. to 1.20 m. (3 to 3 ft.) from the floor to the bottom of the steam generator, 1.25 m. (4 ft.) ahead and 0.60 m. (2 ft.) on the right hand side for allowing easy access for maintenance.



Mark the mounting holes.



Drill the holes.



Insert screws or bolts appropriate for support.



Screw the screws allowing about 10 mm (3/8 in.) for hanging the cabinet.



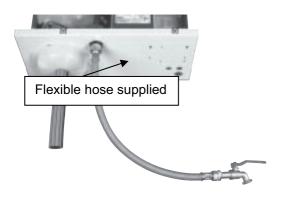


Hang the cabinet. Level the cabinet with a spirit level and tighten up all the screws.

Please refer to the following pages for the water and electrical connections.

STEAM BATH EG/HG

Water connection



A fresh mains cold water service should be used to supply the unit. The water supply must also satisfy the following requirements:

- Water quality: 30 to 1000 µ/cm (30 to 1000 ppm)
- Water Pressure: 1-6 bar (15 to 90 psi)
- Water Temp: less than 40°C (100 Deg. F.)

The water supply connection is on bottom of the unit. All the ELMC are delivered with a water inlet hose (500mm long) with a female 3/4" connection to the cold water supply

A check valve should be located on the mains and cold water service connection to the unit.

The inlet valve base has a basket filter (s.a. page n°44 part 3). Check periodically for debris.



The ELMC steam generator uses water to produce steam so leakage may happen causing potential damage. If an installation in false ceiling or above prime rooms such as museum, exhibition or laboratory rooms is considered, ensure that the floor below the humidifier is constructed from waterproof materials (with draining facilities) to withstand any water spilling during servicing or if a problem occurs.

The ELMC steam generator can run with 3 different water qualities :



The water TH should be between 0 and 40° French grade for a conductivity between 1000 and 350 μ /s.

For the maintenance frequency of the cylinder see the maintenance curve. The ELMC incorporates a time counter (hours, steam KG... and shows maintenance messages when appropriate.



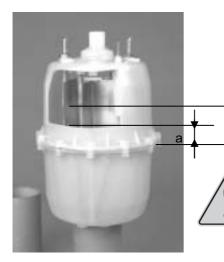
The ElectroVap MC humidifier may be used with softened water : 0°<TH< 2°.

IMPORTANT: Softeners must be programmed correctly. Failure to programme the softener correctly may lead to excessive salt concentration in the steam cylinder. For assistance contact the Softener Manufacturer. The use of duplex softeners is recommended.



Softener

D.I. water



The water level must be between (a) and (b) for the maximum cylinder capacity.

Reverse Osmosis and Demineralised Water

The ElectroVap MC steam generator may be used with Reverse Osmosis or Demineralised water. The minimum water quality is 30 μ /s. On start-up with new steam cylinder a tea spoon of bicarbonate of soda must be added.

The water supply must be made without any additional chemicals (chlorine, disinfectant, ozone). Also some water qualities may generate foam causing disturbances with the correct control of the humidifier. Please refer to Devatec technical services for further assistance.

AUTOMATIC DRAINING

For sanitation purposes, the steam cylinder is automatically drained out in case the humidifier is not operated after a period of 72 hours. This factory pre-set value can be modified (s.a. page 40).



Steam bath EG/HG

Example of a Hammam installation

18 Protection glass for 12V bulb 17 Steam bath generator

> 9 Control cabinet (low voltate) 10 Perfuseme injection pump

8BIS Disconnector

11 7 liters perfume tank

19 Extraction of hygienic air 20 Floor siphon

21 Anti-slipping on a slop to siphon

23 Perfuse valve

25 Antireturn valve

24 220V electrovalve

22 Steam bath door

14 7 liters desinfectant tank

13 Desinfecting unit

12 Perfume pipe

16 Desinfectant nozzle 15 Desinfection pipe

Steam (m) 3*4*0 V | 日本日本 ٥

Steam bath ELMC EG/HG

2 Steam hose diam 25 or 40 according to model

3 Steam nozzle

4 temperature sensor

5 25 mm drain hose

6 Sewerage doaù 40 mini (high temperature)

7 Power supply 3x 400 v +T+N

8 Water supply

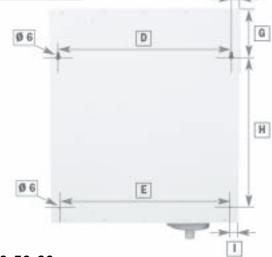
Steam bath EG/HG



ELMC 5-8-10

1000	ensions mm		Steam output		eam itlet	Weight empty kg	Weight full kg
A	470	1	1.15	a	115	15	23
В	540						
C	215						
D	425						
E	425						
F	20						
G	110						
Н	380						
1	20						

Dimensions



ELMC 10 (230 V single phase)-15-20-30

Din	mm		leam rtput	Steam outlet			
A	545	1	135	a 135		22	37
В	675						
C	270	1					
D	465	1					
E	505						
F	40						
G	110						
H	525						



ELMC 40-50-60

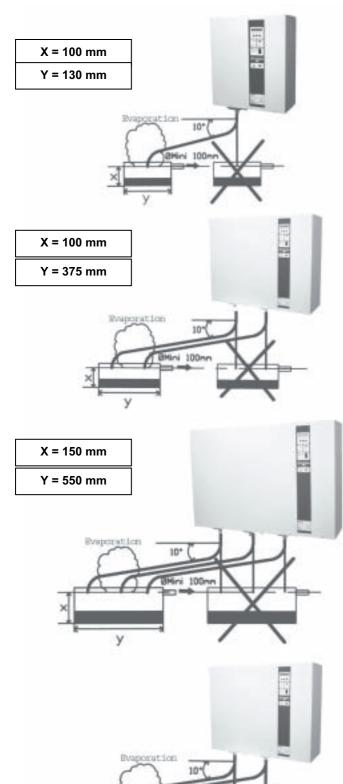
Din	ensions mm		team utput	at outlet			
A	840	1	140			30	60
В	675	2	300	b	300		
C	270						
D	760	1					
E	795	1					
F	40	1					
6	110]					
H	525	1					
1	20	1					

ELMC 90

Din	nonsions mm	100	team utput		team utlet	Weight Weigh empty kg full kg	
A	1070	1	140	a	140	45	90
B	675	2	275	b	275		
0	270	3	275	6	275	1	
D	990						
E	1030	1					
F	40	1					
a.	110	1					
H	525	1					
1	20						



Steam bath EG/HG



Condensate draining

The following drawings show the water draining connections that should be made.

Connection to the unit by a hose draining diam25

ELMC 5-30: 1 m hose with 3 hose clamps **ELMC 40-60:** 1m+1.20m hose with 6 hose clamps. **ELMC 90:** 1m+1.20m+1.80m hose with 9 hose

clamps

Please follow the recommendations hereafter. Drain hose internal, diam mini

- ELMC 5/8/10/15/20/30 ø 25mm - ELMC 40/50/60 ø 25 mm - ELMC 90 ø 25 mm



The drain operates under gravity only. Ensure drain pipework has a pitch of at least 15°C to allow the unit to drain efficiently.

The Devatec recommended steam hoses should be used for connecting the humidifier to the drain network. Regular replacement is recommended.



If rigid piping is used, it must be heat (100°C) and pressure resistant PVC material (copper, galvanized or stainless steel piping **prohibited**)

The temperature of the water discharged from the humidifier is between 60°C and 100°C. Ensure the pipe work used is capable of withstanding such temperatures.

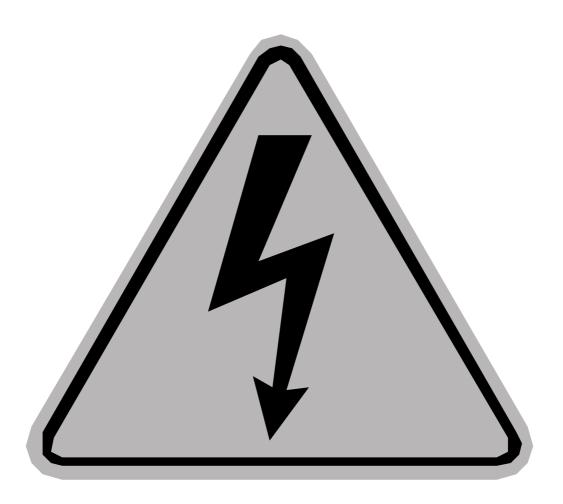
The discharge hose must be free from any obstacle.

It is recommended that each steam cylinder has its own drain pipe and tundish arrangements. This will permit fast and easy identification of a fault within a cylinder.

The discharged water should be offset from the underside of the unit as shown. This will prevent any steam and/or condensation from getting into the cabinet.

Steam bath EG/HG

Electrical installation





 All works concerned with the electrical installation must be carried out by skilled and qualified personnel (eg electrician with appropriate training). The customer is responsible for ensuring their suitability. Please observe local regulations concerning the provision of electrical installations.



Check all electrical terminal screws at commissioning, after 50 hours operation and at every service thereafter.



 Take care: the ELMC electronic components are very sensitive to electrostatic shocks. Appropriate steps must be taken before any operation.

Electrical installation

The tables below show the electrical features of the ElectroVap ELMC steam bath generators.

In all cases, the electrical supply of the command circuit is in 230 V. single phase.

ELMC STEAM BATH IN 2 X 230 VAC 50/60Hz

ELMC	Production (KG/Steam)	In (A)	lmaxi (A)	Pmaxi (PW)	Cylinder size (Ø)	Ø Steam outlet
5_2	5	16,3	17,6	4,05	Small	25
10	10	33	35	8	Large Diam 25	25

ELMC STEAM BATH IN 3 X 400 VAC 50/60Hz

ELMC	Production (KG/Steam)	In (A)	lmaxi (A)	Pmaxi (PW)	Cylinder size (Ø)	Ø Steam outlet
5	5	5,6	6,2	4,24	Small	25
8	8	8,9	9,7	6,63	Small	25
10	10	11	12	8 21	Small	25
15	15	16,51	17,8	12,18	Large Diam 25	25
20	20	22	23,5	16,07	Large Diam 40	40
30	30	33	35	24 01	Large Diam 40	40
40	40	44	46,7	31,94	Large Diam 40	40
50	50	55	58,3	39,88	Large Diam 40	40
60	60	66	69,8	47,74	Large Diam 40	40
90	90	99	104,6	71,55	Large Diam 40	40

ELMC STEAM BATH IN 3 X 230 VAC 50/60Hz

ELMC	Production (KG/Steam)	In (A)	lmaxi (A)	Pmaxi (PW)	Cylinder size (Ø)	Ø Steam outlet
5-23	5	9,6	10,5	4,13	Small	25
8-23	8	15,3	16,5	6,49	Small	25
10-23	10	19,1	20,5	8,07	Small	25
15-23	15	28,7	30,6	12,04	Large Diam 25	25
20-23	20	38,2	40,6	15,98	Large Diam 40	40
25-23	30	47,8	50,7	19,95	Large Diam 40	40
32-23	32	62,9	66,6	26,21	Large Diam 40	40
40-23	40	76,5	81	31,84	Large Diam 40	40
50-23	50	95,6	101,1	39,75	Large Diam 40	40
60-23	60	114,7	121,2	47,66	Large Diam 40	40
90-23	70	133,8	141,3	55,57	Large Diam 40	40

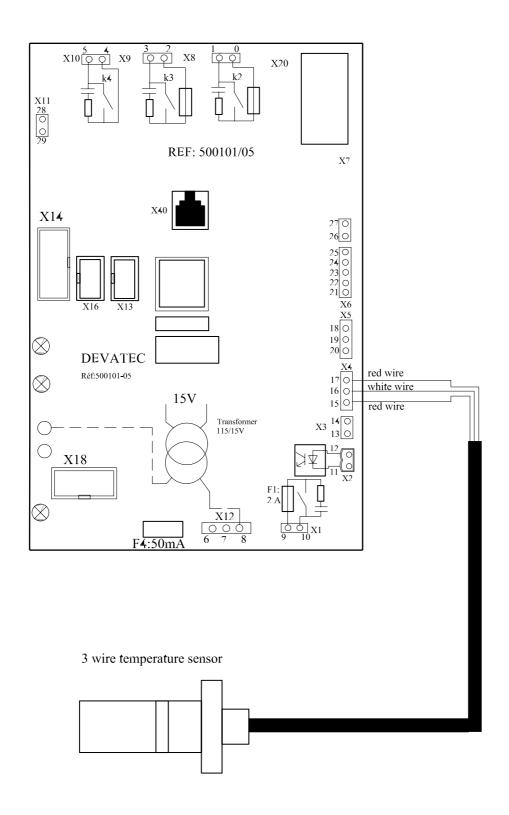
NB: if a circuit breaker must be installed, select the appropriate I max. value and increase it by a multiplicating factor for safety purposes.

E.G.: ELMC 10 = 12A (I max) + 25% (coefficient) = 15 Amperes

THE ELMC STEAM BATH GENERATOR IS ALSO AVAILABLE IN 460 & 600/3/60 V. PLEASE CONSULT FACTORY FOR FURTHER INFORMATION.

Electrovap MC EG/HG

Wiring the temperature sensor





A III works concerned with electrical installation must be carried out by a skilled and qualified personnel.

Electrovap MC

STEAM BATH CONTROL PANEL



Thickness: 35mm

LCD display countrol box for the close or remote control.



To stop steam production within the hammam, press the bottom of the steam bath control box but do not turn off the ON/OFF switch of the generator.

This cabinet must be connected directly to the ELMC EG steam bath. This model provides :

the ON/OFF control of the steam humidifier ELMC EG;

the ON/OFF switch of the steam bath light;

the setting of the steam bath temperature;

the display of the temperature within the steam bath;

the setting of the perfume dispensor.

The STEAM BATH remote control cabinet can be installed as far as 60 meters from the steam generator.

The cabinet is watertight and the push bottoms are membrane made.



For safety purposes, the cabinet has a 12V low voltage supply.

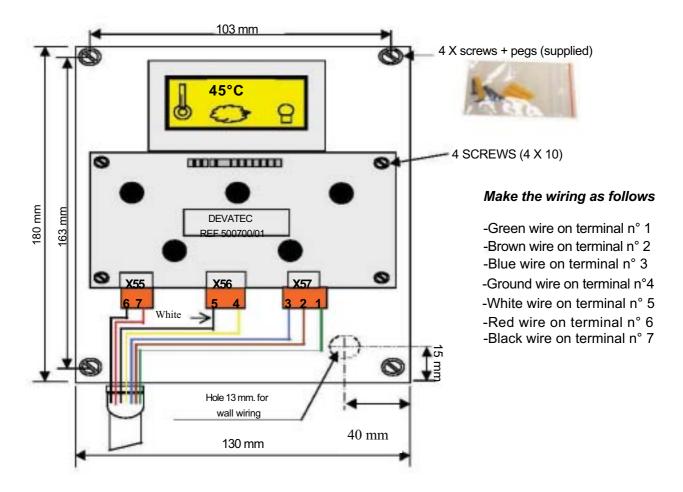
Never use solvent for cleaning the steam bath control cabinet



REMOTE WIRING AND INSTALLATION OF THE CONTROL CABINET

Wiring your steam Bath cabinet:

- Please wire your steam bath cabinet as per the following instructions
- Space has been provided at the rear of the cabinet for a wall installation

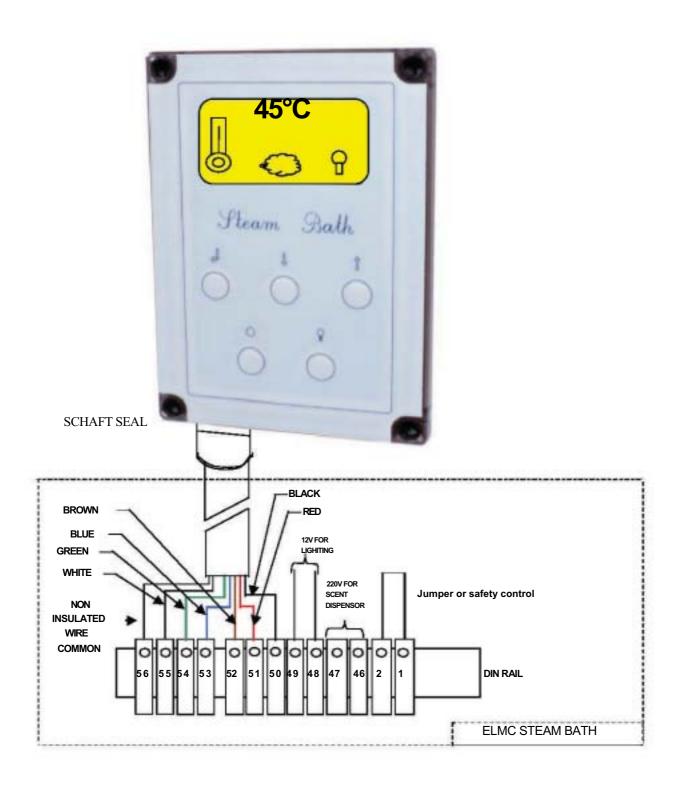


Wall mounting :

- Unscrew the 4 screws from the front cabinet of the Steam Bath
- Remove the front cover.
- Put the rear part of the box on the selected place.
- Mark off the 4 mounting holes (the latter are located at the same place at the front screws).
- Remove the back of the cabinet, drill with 5mm, put the pegs in place, position again the back of the control cabinet and screw up the 4 screws supplied (3x25mm) with a screw driver.
- The Steam Bath remote control panel is provided with a connecting cord sold by the meter (appropriate length to be indicated at order time).

Electrovap MC EG

Connection of the front control panel & the temperature sensor





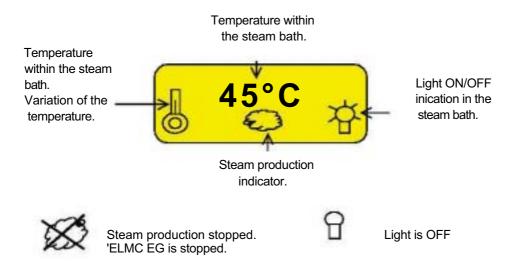
IMPORTANT:

All works concerned with electrical installation must be carried out by a skilled & qualified personnel.

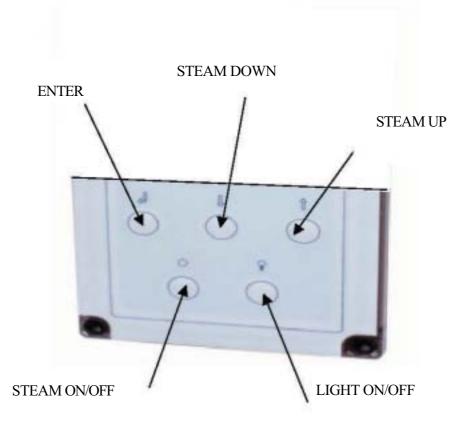


Front panel identification

Indications on the display panel:



Using of the panel buttons:





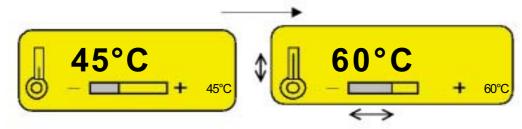
Modifications of the setting points

Modification of the temperature setting point :

Push on the enter button the display indicates the temperature of the set point inside the steam bath.

You can change it with the help of the buttons (+) or (-).

DO NOT FORGET TO PRESS THE ENTER KEY TO CONFIRM THE SETTING

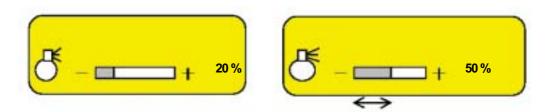


if any of tHe buttons is pressed within 10 seconds, the display will show the preveous message again.

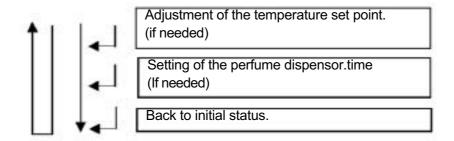
Modification of the perfume set point :

After the temperature it is possible to set the perfume spreading time with button (+) and (-) button.

DO NOT FORGET TO CONFIRM THE SETTING.

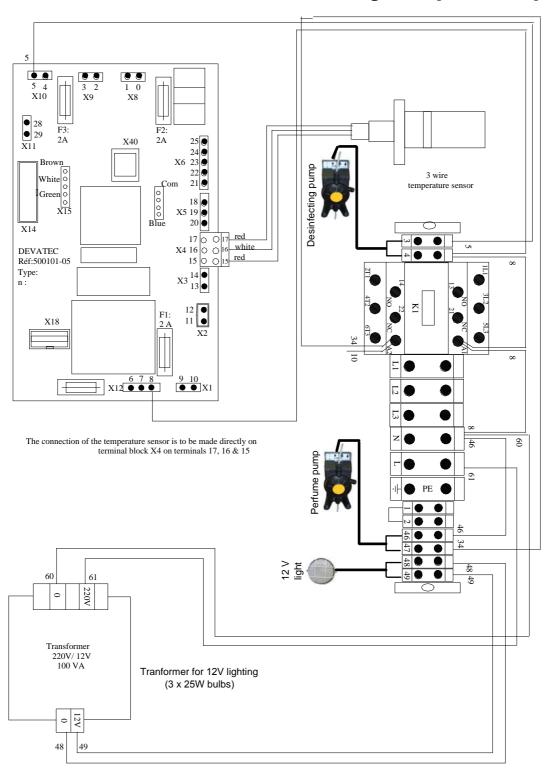


Example of the scrolling menu:



Electrovap MC HG

Connecting the optional equipment



Wiring of the KTY81 temperature sensor onto main board ref: 500101/05:

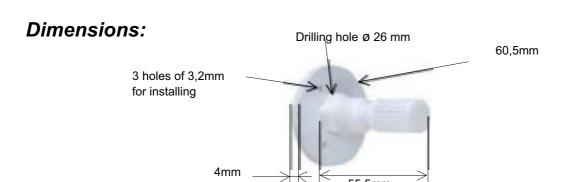
- 1 Red wire on terminal n°15
- 1 White wire on therminal n°16
- 1 Red wire on terminal n°17



All works concerned with electrical installation must be carried out by a skilled and qualified personnel.

Electrovap MC EG/HG

Temperature sensor



Wiring:

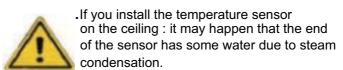
The connection of the temperature sensor is to be made directly onto the main board with a three pin connector (s.a. page 15 for further reference).

Position of the temperature sensor:

Recommended position



Vertical position



.If this occurs or in prevention, take this end off.



Never use solvants for cleaning the sensor.



Supplied equipment:

Temperature sensor supplied with 10 m. long cable + 1 sent of 3 screws 3X25mm & pegs.

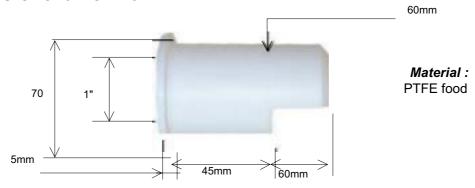




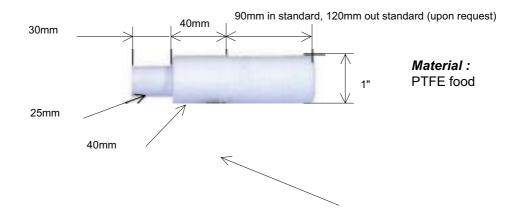


Steam nozzle

Dimensions of the nozzle:



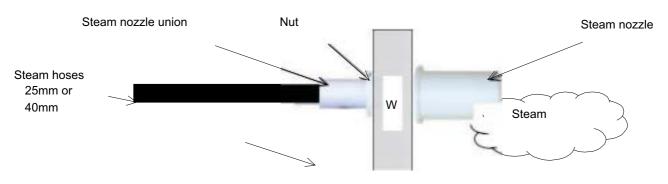
Dimensions of the steam nozzle union:



Dimensions of the nut:

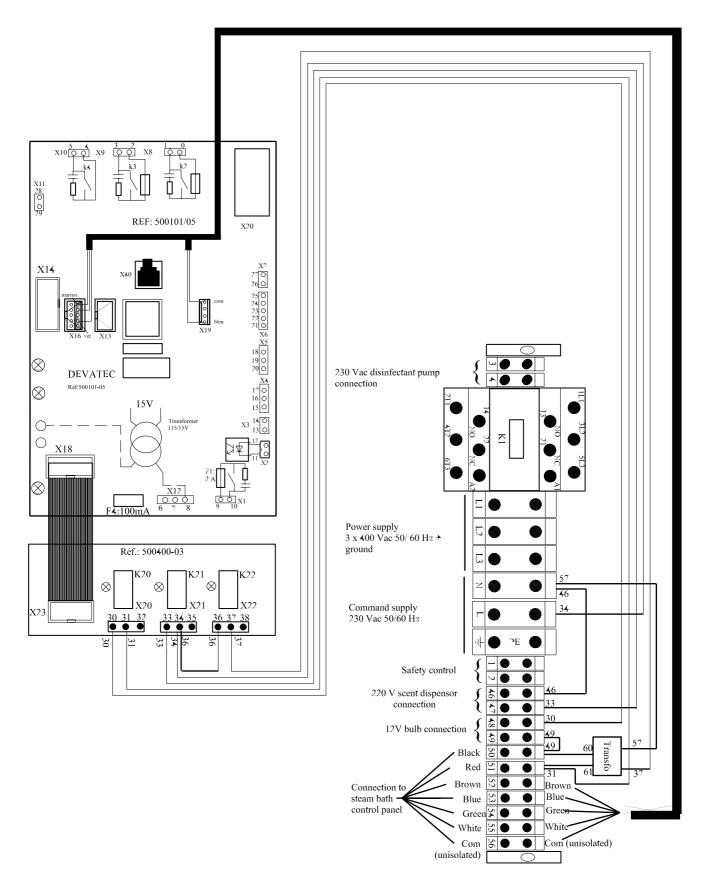


Build up and example of the installation of the whole steam nozzle:



Electrovap MC

Wiring the main board and the optional equipment



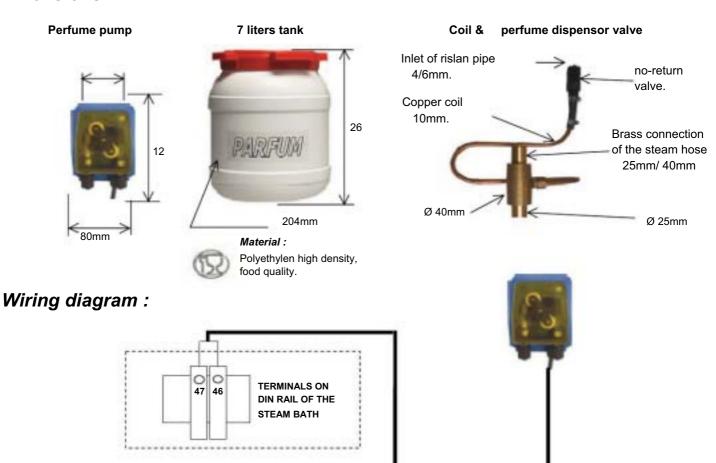


ALL WORKS CONCERNED WITH ELECTRICAL INSTALLATION MUST BE CARRIED OUT BY A SKILLED AND QUALIFIED PERSONNEL.

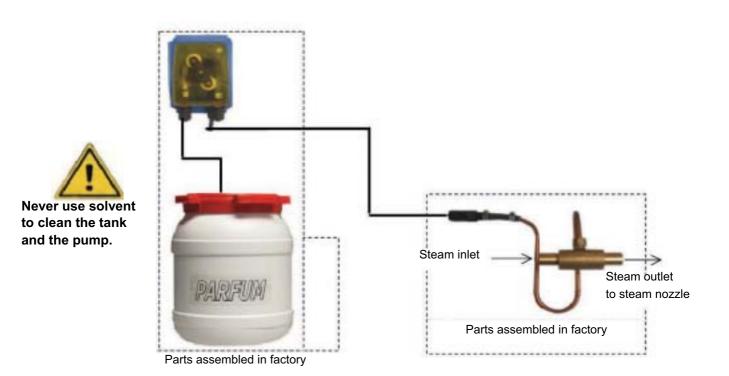
Electrovap MC EG/HG

Perfume dispensor

Dimensions:



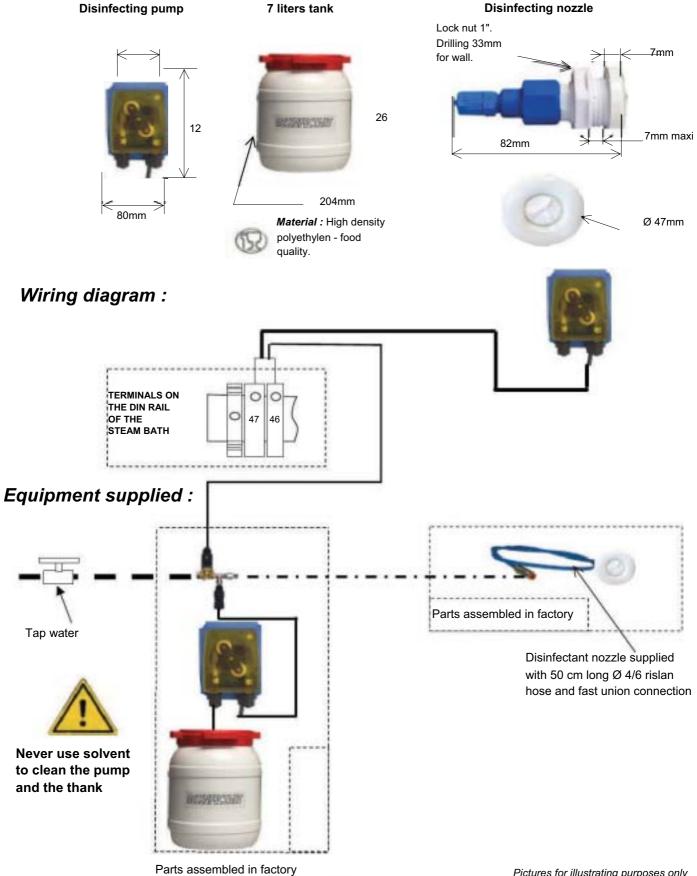
Equipment supplied:



Electrovap MC EG/HG

Disinfecting system

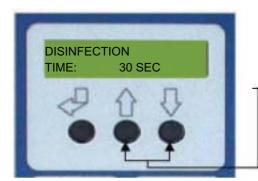
Dimensions:



Electrovap MC EG/HG

Disinfection system

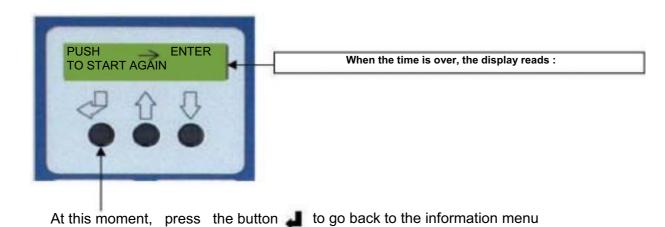
How to start the disinfection system:



To adjust the disinfection time: Please check with menu "Changing parameters" on page 32.

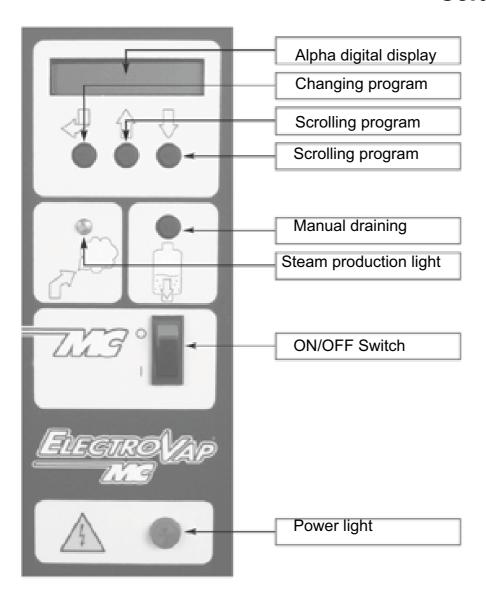
-To initiate the disinfection system :

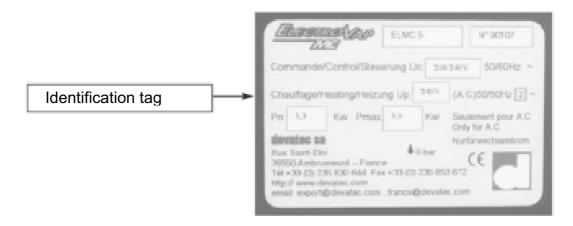
Press simultaneously on the disinfection time begins to scroll (s.a. the display window).



Front panel identification

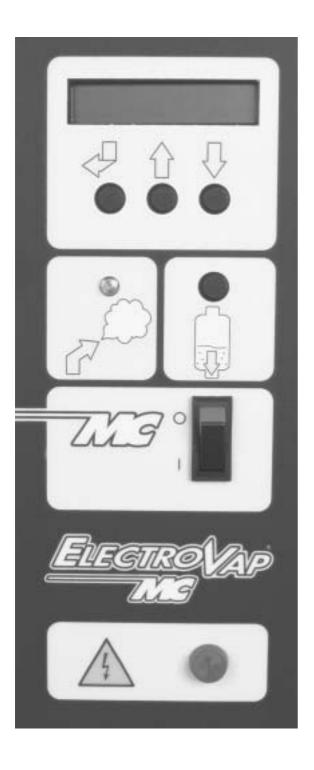
Software assistant





EG/HG commissioning

Software assistant



Checking and Switching on.

- **1** After completion of the installation inspection, switch on the water supply to the unit..
- 2 Switch on the main power supply.
- **3** The power lamp must be illuminated.
- **4** Switch on the main power supply I/0 on I. The display will default to show the rate of steam produced.

The steam bath unit offers 3 main menus:

USER INFORMATION

The User Information menu (steam generator status) provides information on the operation status of the unit. No parameter can be changed from within this menu.

HUMIDIFIER CONDITION

(Steam Generator Configuration) menu provides information only regarding the unit set up. No parameters can be changed from within this menu.

CHANGING PARAMETER

The changing parameter System menu allows all operating parameters to be adjusted. An access code is required to gain entry (2 3 4).



Changing parameters menu

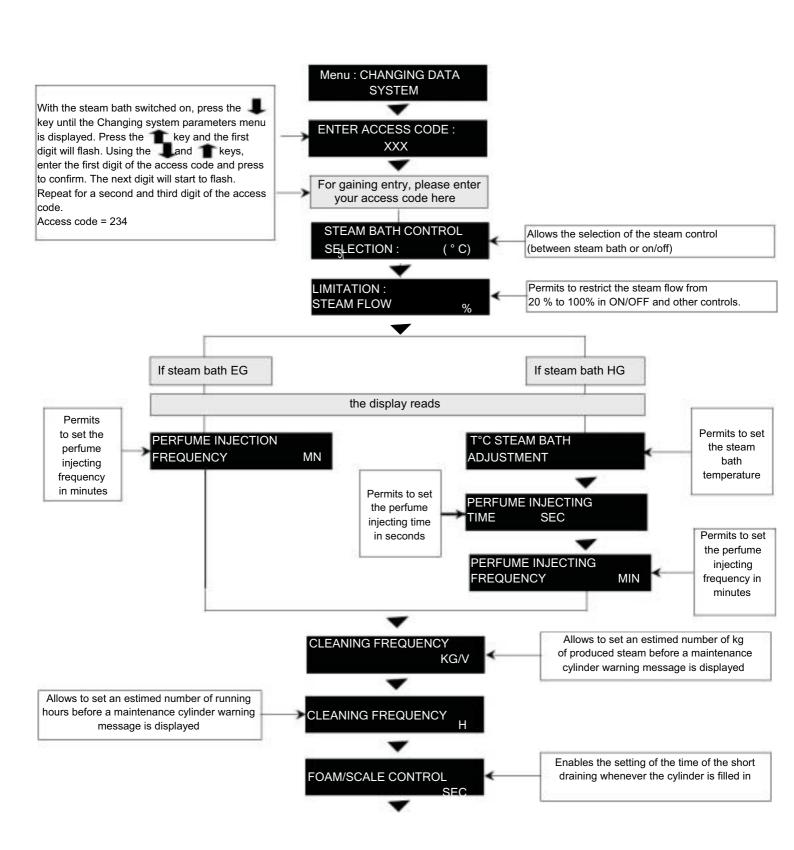
Roll up or down the menu in pushing on



keys, press the select button



to change menu



Electrovap MC EG/HG

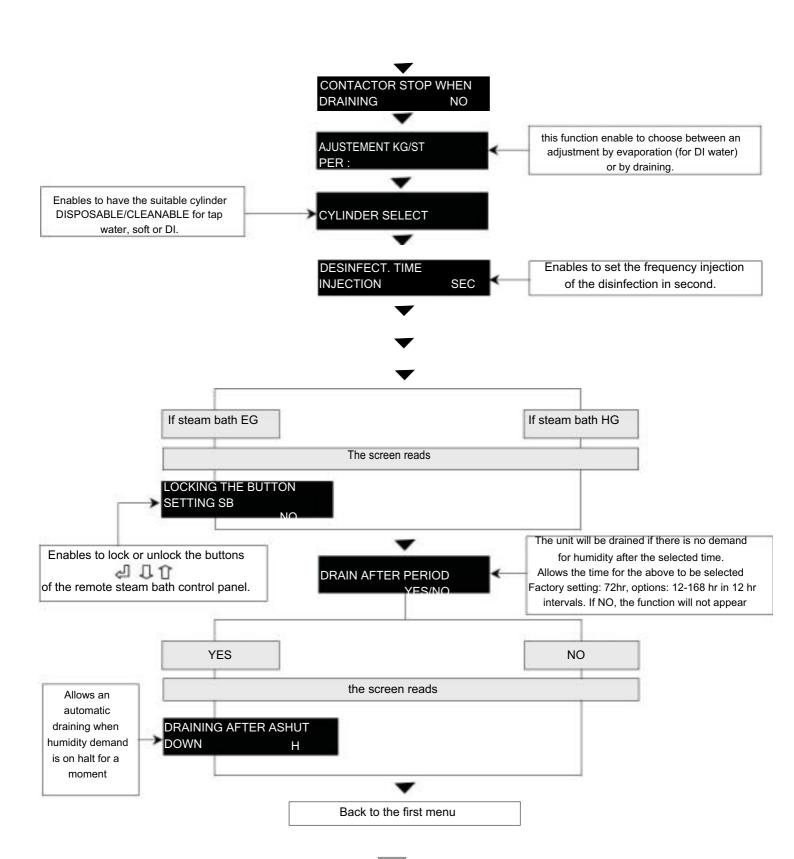
Changing parameter menu

Take care: Rolling the menu in pushing on in any time, allow to change the menu



, pressing the select button





Electrovap MC EG/HG

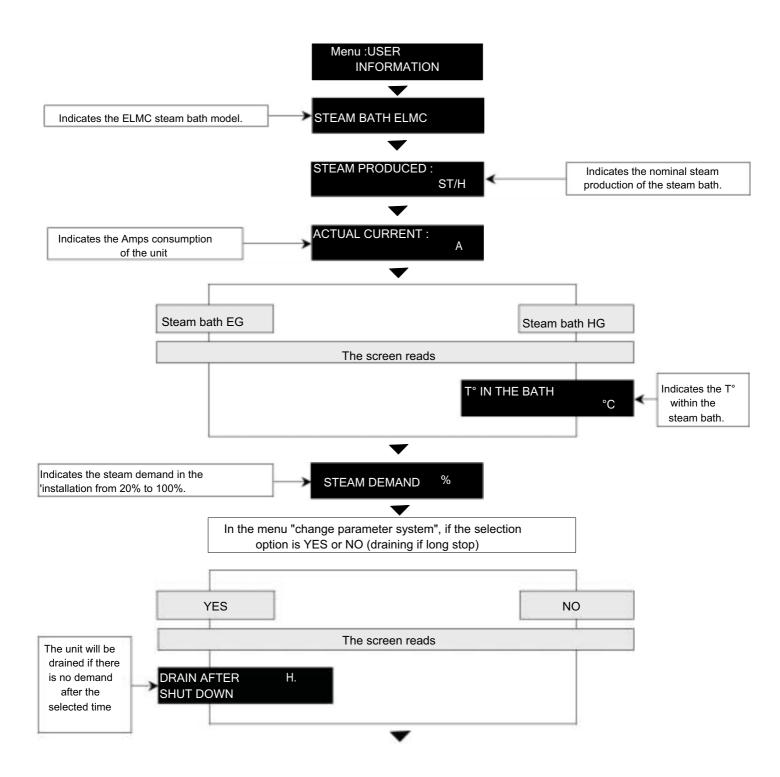
USER INFORMATION MENU

Take care: Rolling the menu in pushing on in any time, allow to change the menu.



, pressing the select button

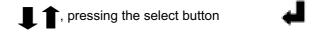


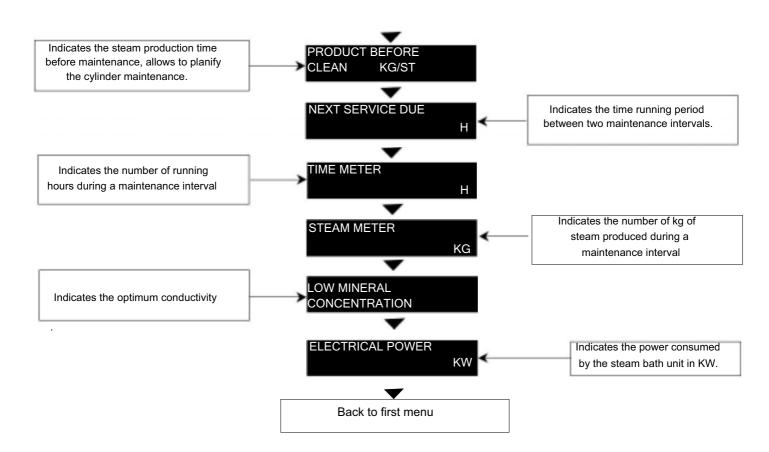


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USER INFORMATION MENU

Take care: Rolling the menu in pushing on in any time, allow to change the menu.





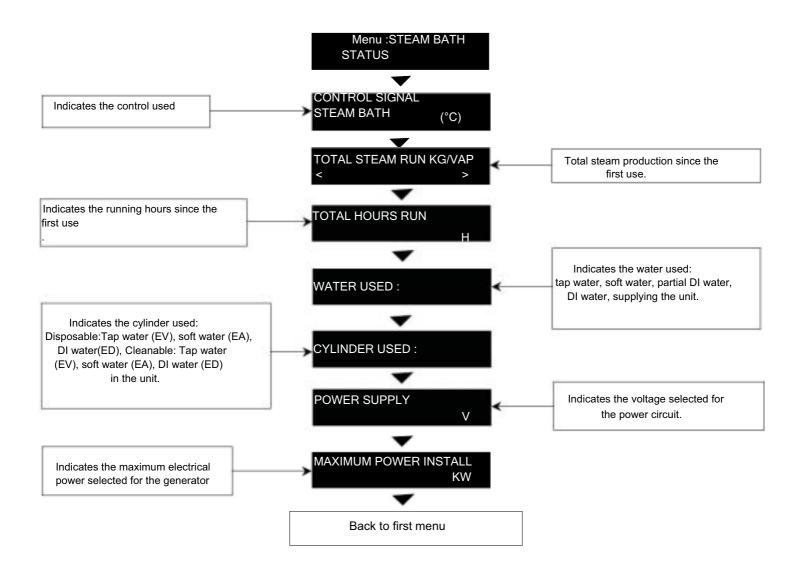
- 1-2 Reverse timers (time before maintenance or production before cleaning). When at 0, the display reads "maintenance: VALVE DRAINING + CYLINDER". The timers are reset by pressing the manual draining button.
- 3-4 Timers (time & steam) can be reset by pressing the manual draining button and the enter key



STEAM BATH STATUS MENU

Take care: Rolling the menu in pushing on in any time, allow to change the menu.





ALERTS

Software assistant

P ALERTS	TROUBLE	CAUSES / ACTIONS	OPTION
P0 ALERT	A power phase is missing	Check power supply, fuses or power circuit breaker (general power switchboard)	Power phase detection device is required
P1 ALERT	Unit on steam demand and contactor still on	F1 fuse (2A) or contactor coil failure. CHANGE FUSE OR CONTACTOR	Standard
P2 ALERT	Idle demand and contactor still off	CHANGE CONTACTOR	Standard
P3 ALERT	Inlet valve constantly open	Check correct water inlet pressure (1 to 6 bar). CHANGE INLET VALVE	Standard
P4 ALERT	Cylinder is not filling correctly	Water supply failure or low water pressure. Drain valve failure. CHANGE INLET VALVE – CLEAN DRAIN VALVE	Standard
P5 ALERT	Cylinder not draining correctly	Blockage at the drain valve. Drain valve coil failure. CLEAN or CHANGE DRAIN VALVE – REPLACE COIL- CHANGE or CLEAN CYLINDER	Standard
P6 ALERT	Water leakage in cylinder part	Cylinder leaking at the gasket. CHANGE GASKET or CYLINDER	Water leakage detection device is required

Inspection maintenance



A









Maintenance

The ElectroVap Steam Bath MC is delivered with disposable cylinder(s) in standard which can be replaced by cleanable ones, however, without any modification, according to the choice of the user. Drain the steam cylinder using the manual drain key. When the cylinder is fully drained switch off the unit and isolate the power. The steam cylinder may be very hot. Allow it to cool down before removing. Remove front panel from the humidifier to access the cylinder compartment. Disconnect the steam hose from the top of the steam cylinder. Remove power and high water level electrodes from top of the steam cylinder.

Lift the cylinder upwards until it is clear of the drain valve. Ensure the retaining ring remains in the drain valves. The disposable cylinder will be merely replaced by new ones.



Cleanable cylinder:

Mark the edge of the cylinder halves so the can be matched up when reassembled.

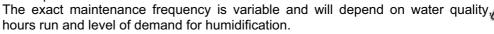
Note:

The constant heating and cooling of the cylinder may cause distortion. Consequently the cylinder halves must be assembled in the same relative position. Remove nuts and bolts around the centre of the cylinder. Open up cylinder. It is important that the strainer in the bottom half of the cylinder is also cleaned.

Clean the electrodes by scraping off the mineral deposits. Alternatively, this can be done using weak descaling solution. Rinse the electrodes and the body of the cylinder. IT IS IMPORTANT TO AVOID DISTORTION THE CYLINDER IN ATTEMPTING TO REMOVE ANY MINERAL DEPOSITS FROM IT. Relocate the strainer in the cylinder base. Replace the cylinder gasket on the rim of the bottom half of the cylinder and then locate the upper half of the cylinder on the gasket, TAKING CARE THAT THE MARKS ARE ALIGNED. Refit the nuts and bolts. Clean the O-ring on the drain valve and if necessary, change it. (every 2-3 cylinder cleanings). Locate the steam outlet of the cylinder in the retaining clip.Position the base of the cylinder over the drain valve and push downwards. Reconnect the power cables.

General:

The steam generator requires regular maintenance to ensure efficient operation and to prevent breakdown.



New installations should be inspected / serviced every 2 to 4 weeks. This may be too frequent, but it will enable a suitable maintenance routine to be established.



The following is a guide to work that should be undertaken in a routine inspection.

- **1 -** Inspect water and steam installation for leaks and damage.
- **2 -** Inspect electrical installation for any loose cables and or damages. Components.
- Inspect the steam cylinder for scale deposits. If the scale in the cylinder is half way up the stainer in the lower half of the cylinder it should be replaced / cleaned (see changing steam cylinder).
- **4 -** Inspect the inlet valve. The drain valve may become blocked with scale from the steam cylinder is will cause water to continually run to drain.





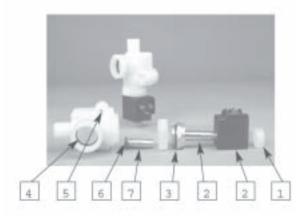
Valves maintenance

Maintenance



Drain valve maintenance

To be made at each cylinder maintenance



Drain the steam cylinder fully and remove it from the humidifier. Isolate power and water supply before attempting to carry out any maintenance.

- Remove the cap from, the end of the solenoid valve 1
- Remove the coil from the valve stem 2
- Unscrew and remove the valve steam from the valve body 3
- Clean the valve stem with fresh water 3
- Clean the valve seat and the piston (taking care not to loose the spring **7**
- Remove the O ring and drain valve collar from the top of the valve body 4

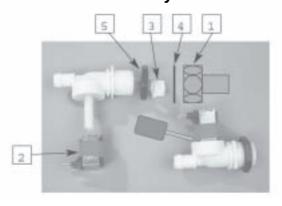
Note

Grease the O ring with high temperature silicone grease before replacing. Remove the filling cup hose from the valve body. Remove the two screws that secure the valve body to the drain cup **5**. Remove the drain valve body from the drain cup and rinse with clear water ensuring any scale deposits are removed. Pay particular attention to the piston seat **6**. Assemble in reverse order.

Inlet valve maintenance



To be made every six months



Drain the steam cylinder fully and remove it from the humidifier

Isolate power and water supply before attempting to carry out any maintenance.

- Remove the water inlet hose from the valve. 1 Remove the solenoid coil in pushing and turning 2
- •Remove the basket filter from the base of the valve with a pair of long nose pliers. **3**
- •Wash the basket filter under clean water to remove any dirt and debris. **3** Change the O ring if necessary **4**
- •Assembly in reverse order.

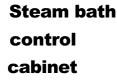
Note

Do not forget to fit the washer when attaching the water inlet hose.

Electrovap MC EG/HG

Notes

Steam bath Bain vapeur











Disinfecting nozzle



76550 Ambrumesnil - France

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DEVATEC continues to develop its products For this reason, the technical data and specifications of the products can be changed without prior notice.

Sensor



Perfume dispensor or desinfecting pump



Steam nozzle



Photos for illustrating purposes only

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