Domina PLUS B

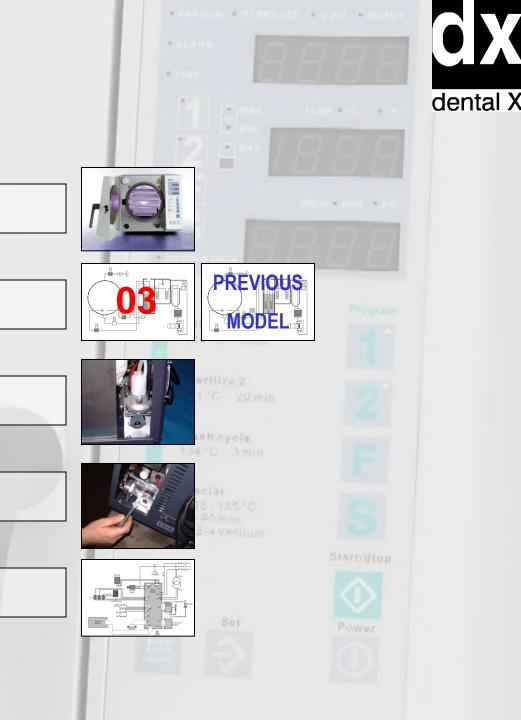
INSTALLATION

WORKING DIAGRAMS

INTERNAL VIEWS

TROUBLESHOOTING

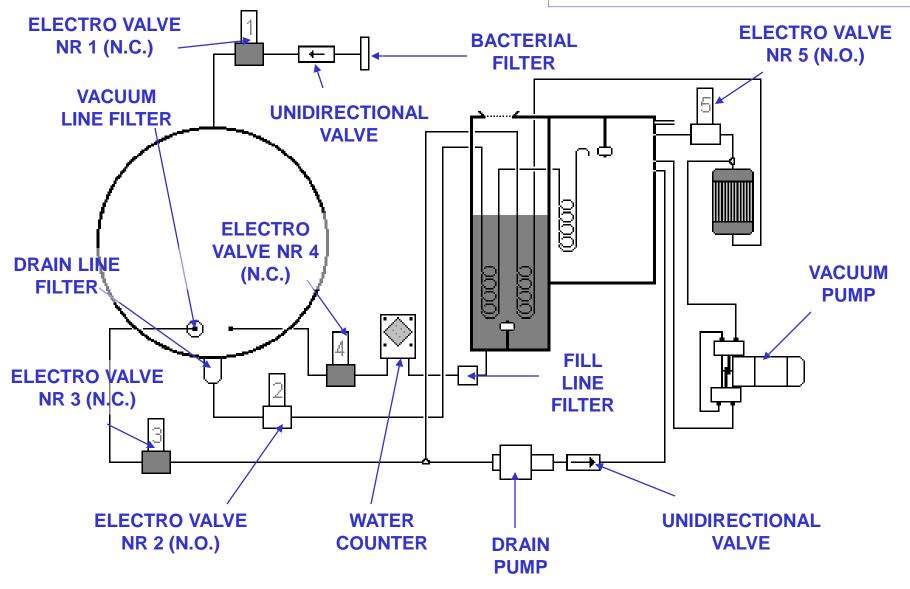
WIRING DIAGRAMS



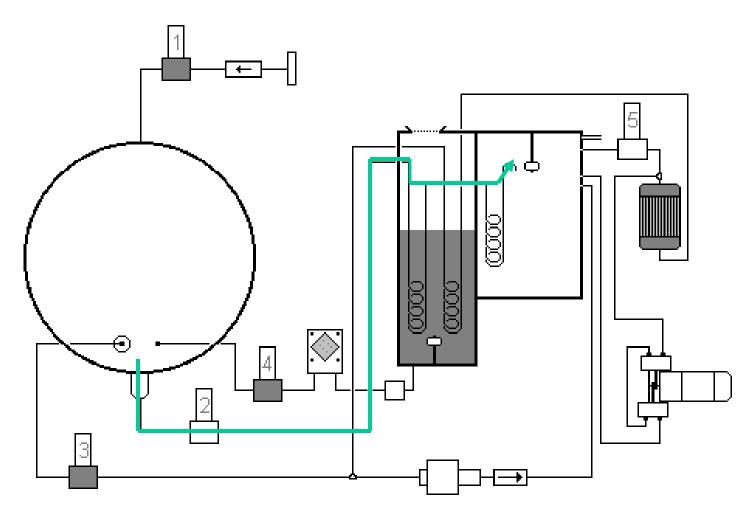


Domina PLUS B

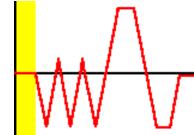
2003 MODEL



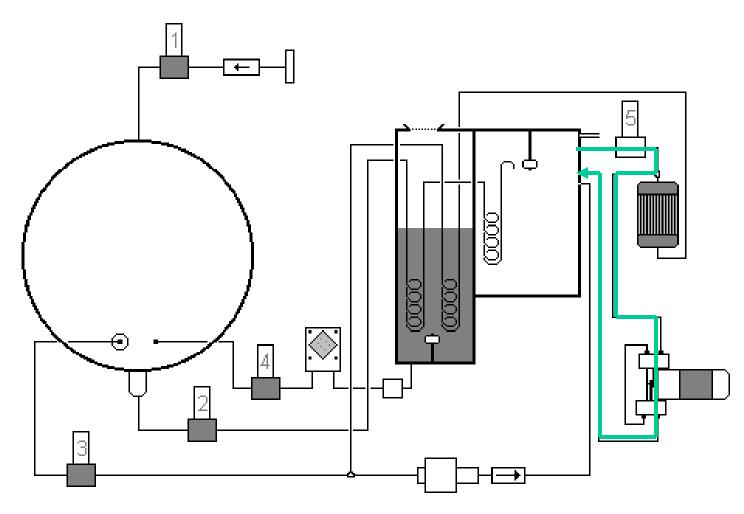




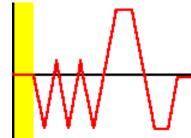
DOMINA PLUS B remains in this condition until the surface temperature reaches 100°C (up and down)



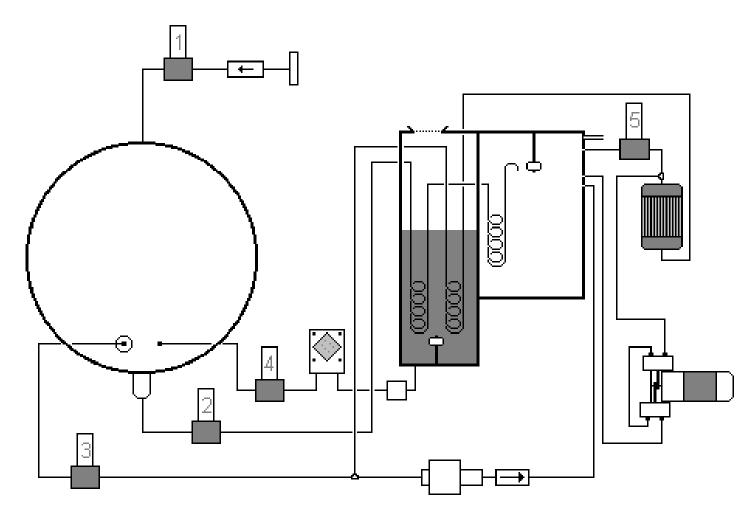




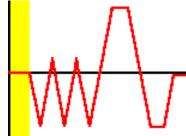
When the vacuum pump turns on, it runs without load because EV5 is open



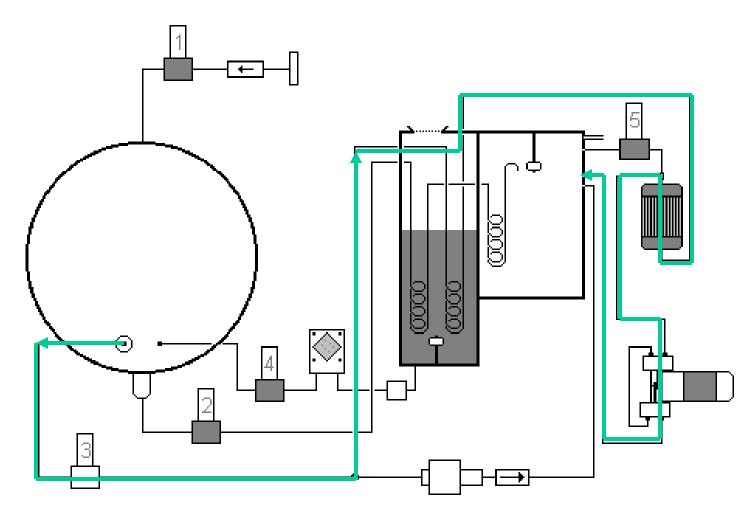




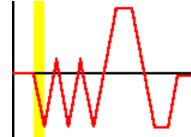
After a couple of seconds, EV5 turns on (it closes)



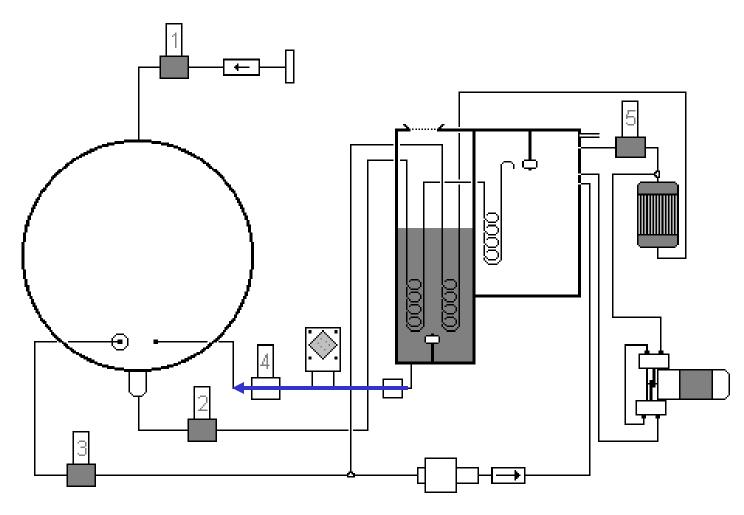




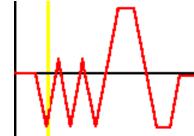
After a couple of seconds, EV3 turns on (it open) and the air is pumped out



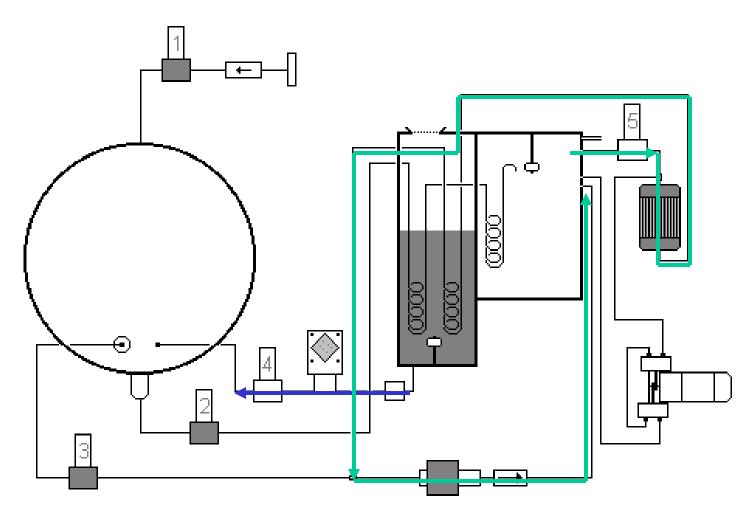




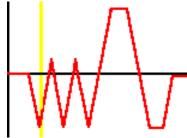
When the pressure reaches –0.8 bar, (for altitude from 0 to 100 m), EV3 closes and EV4 opens



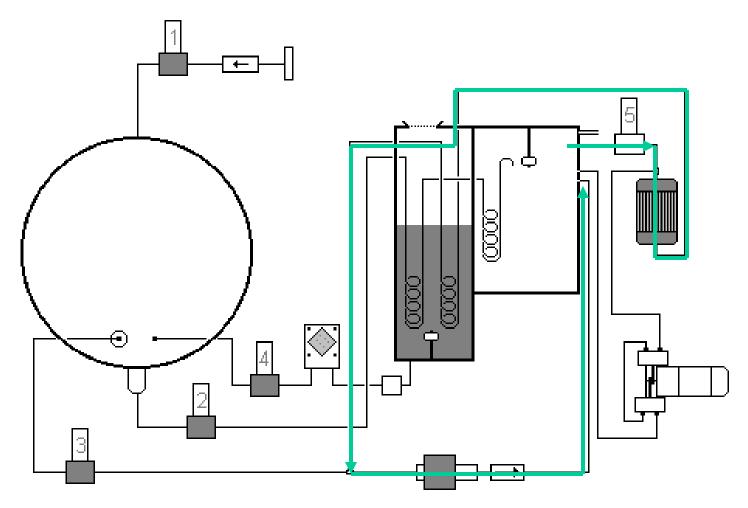




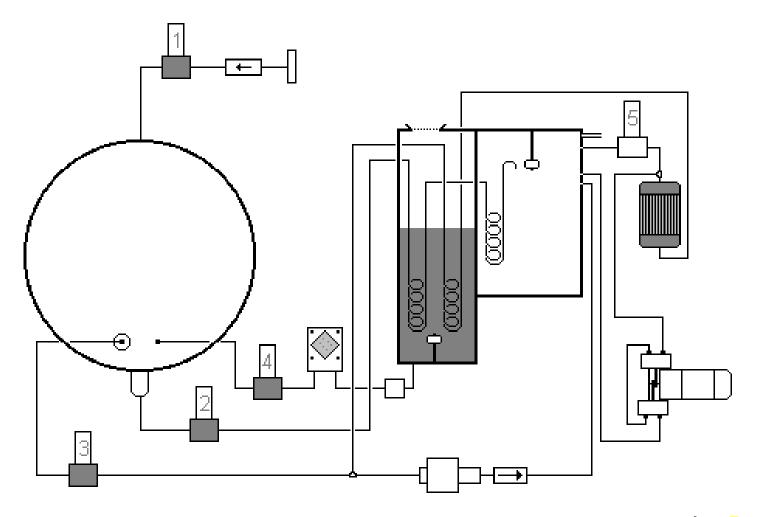
EV5 open and the drain pump turns on for 20 seconds



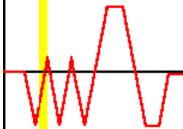




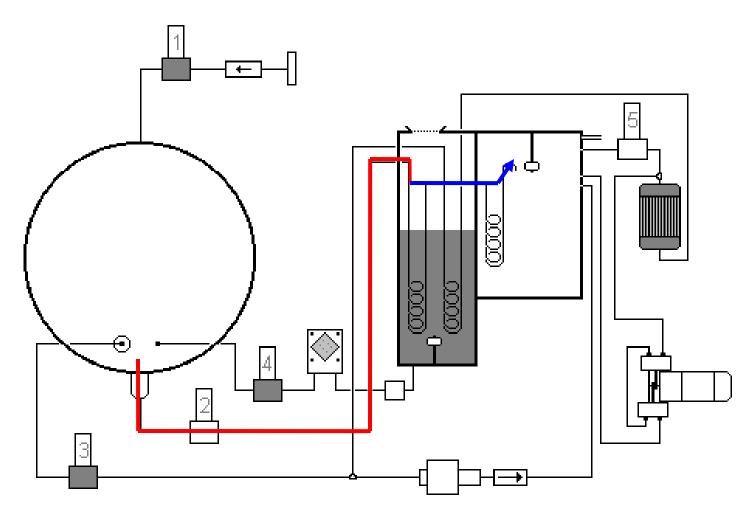




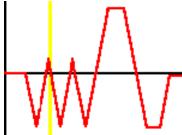
heating



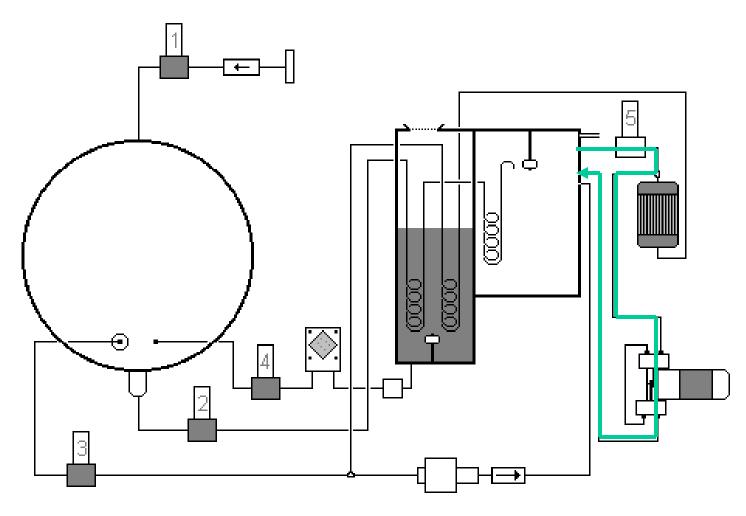




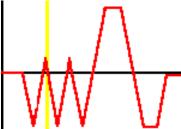
When the pressure reaches 0.16 bar, EV2 turns off



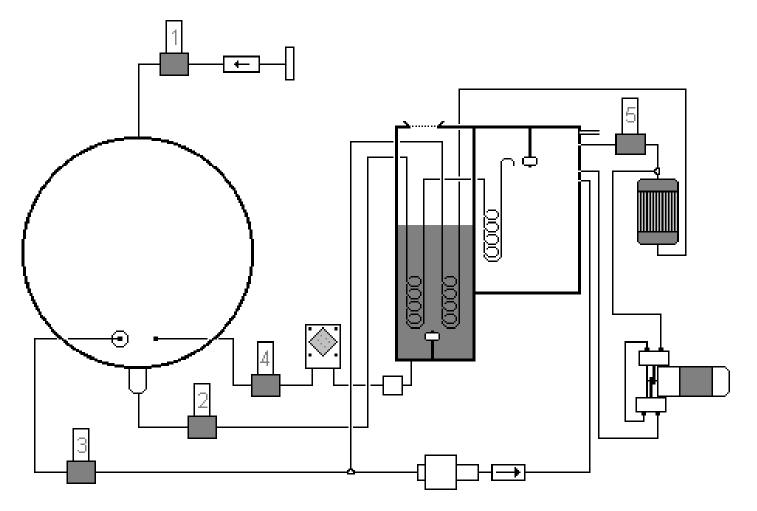




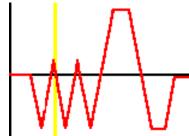
At 0.05 bar, EV2 closes and the vacuum pump turns on



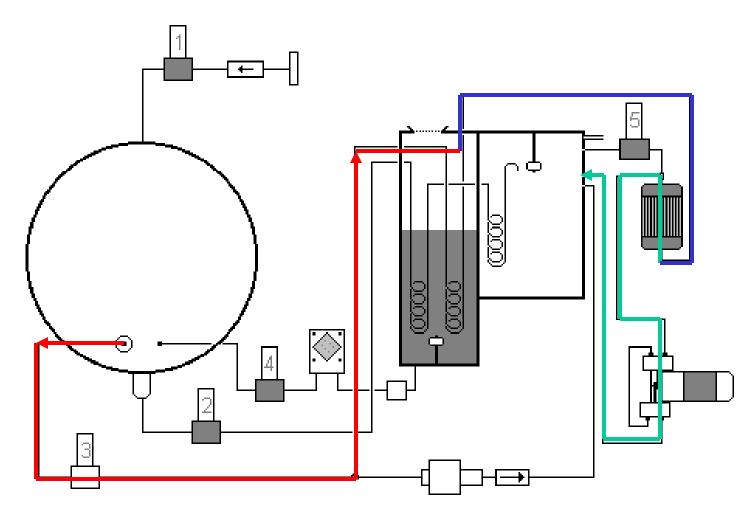




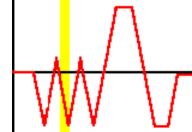
...after 2 seconds EV5 closes..



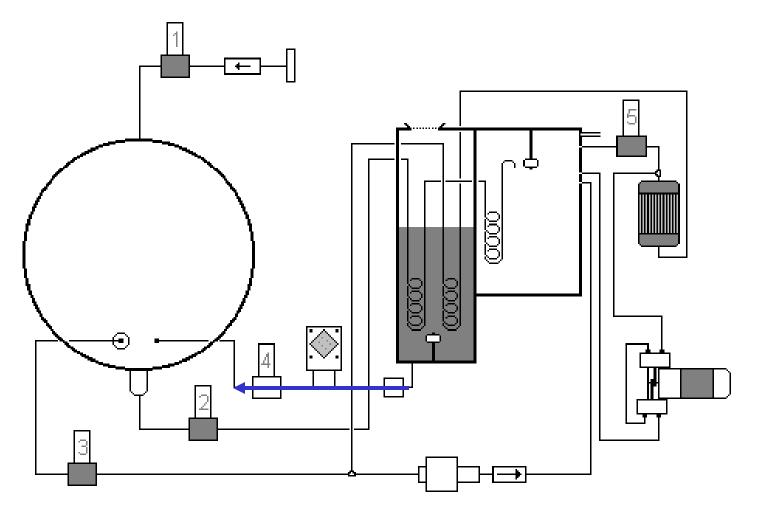




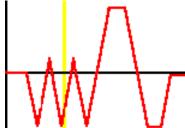
...and after 2 seconds EV3 opens: the steam is condensed in the radiator and the pump works dry



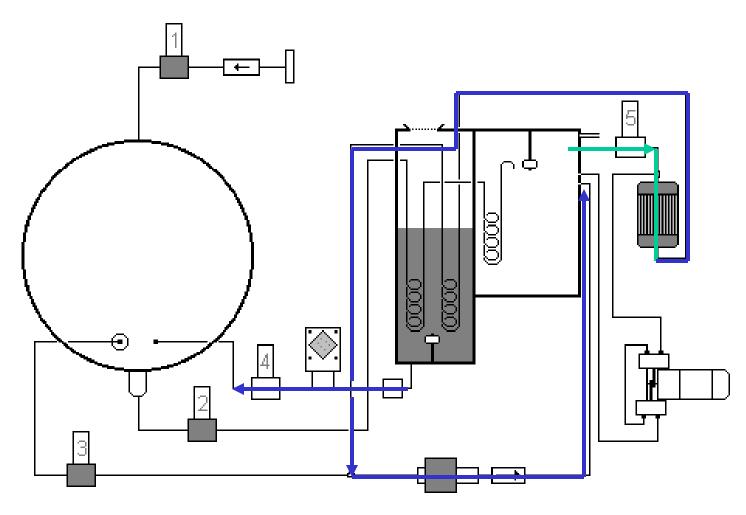




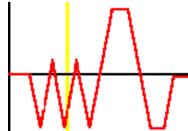
Second water filling



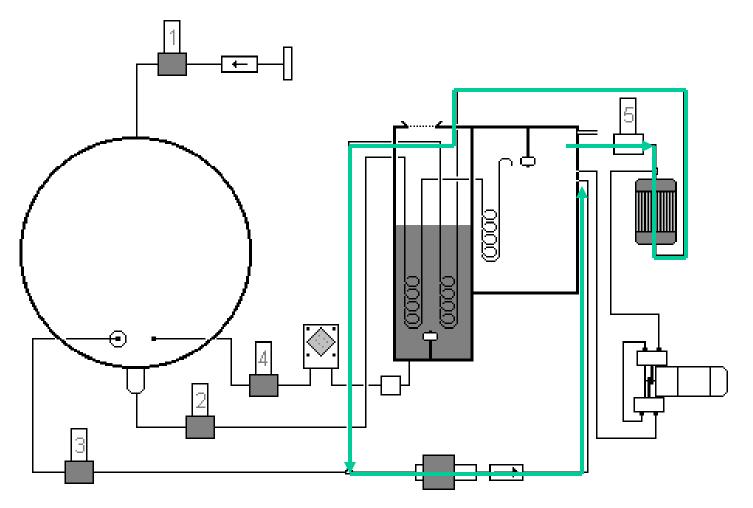


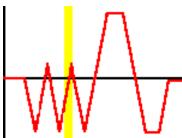


EV5 opens and the radiator is drained by the pump

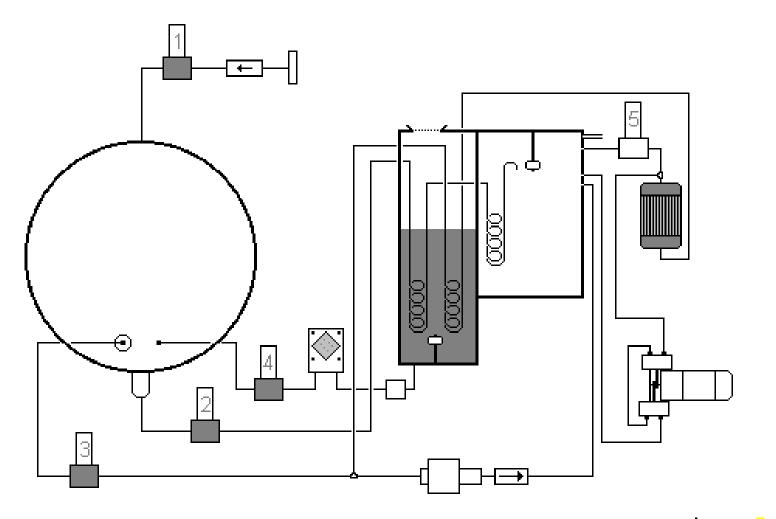




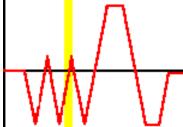




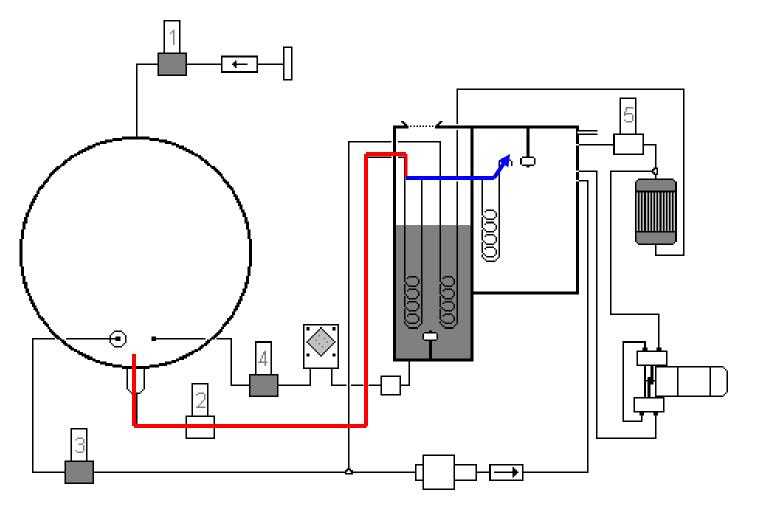




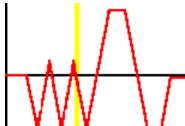
heating



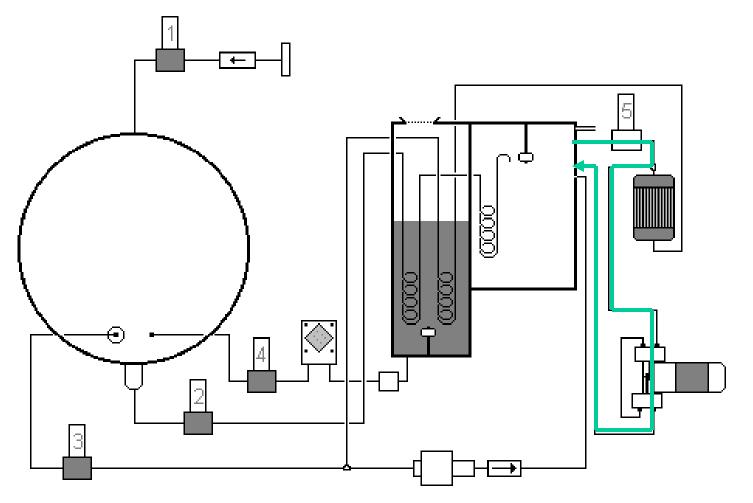




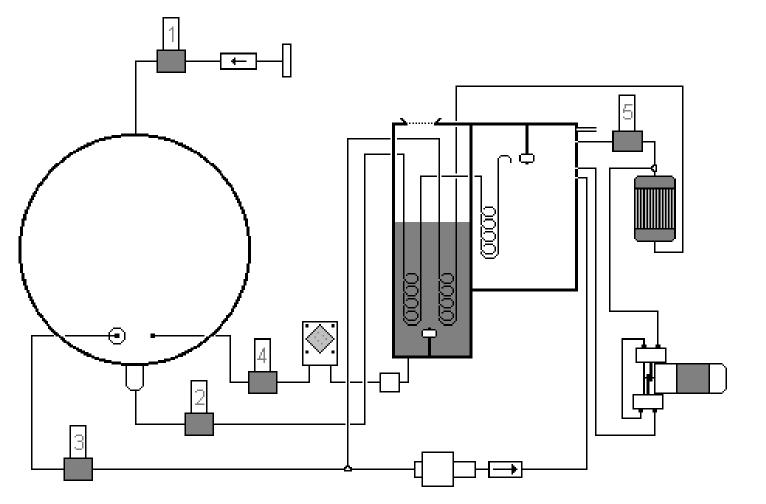
Second drain



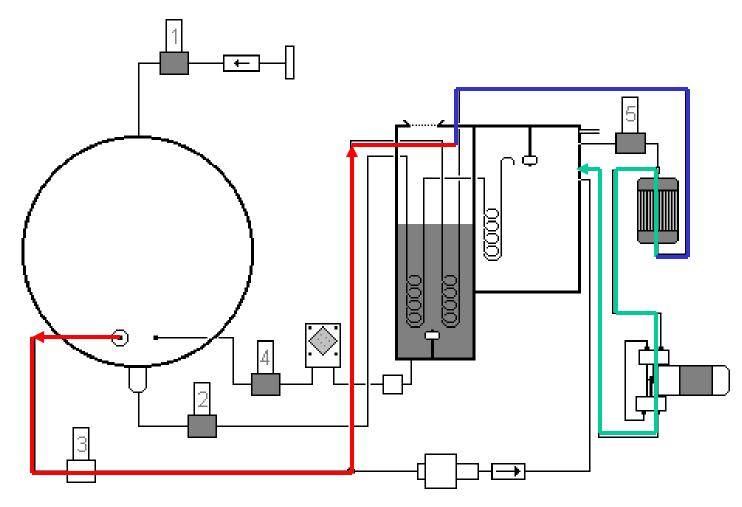




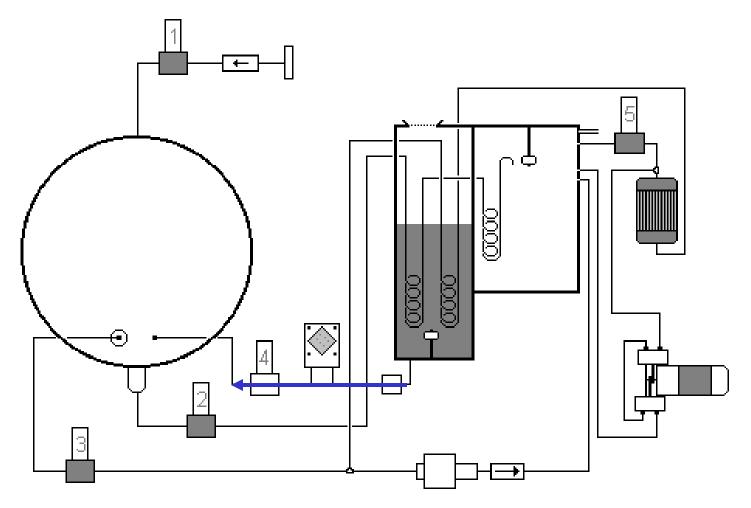


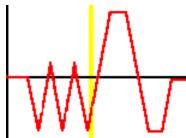




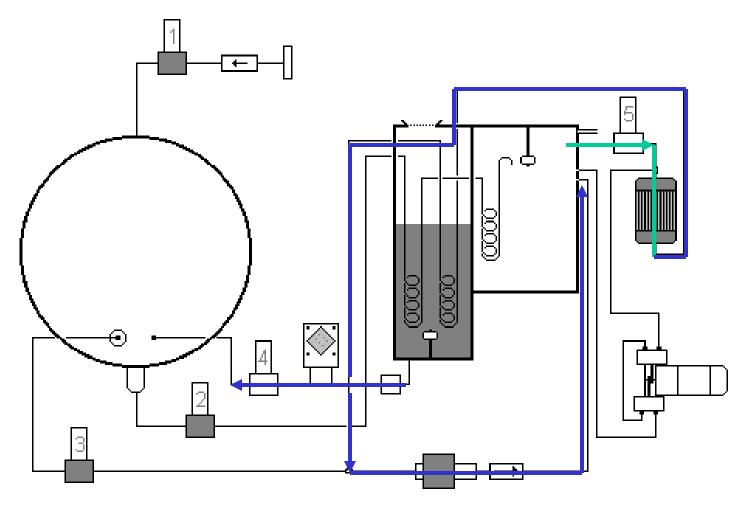




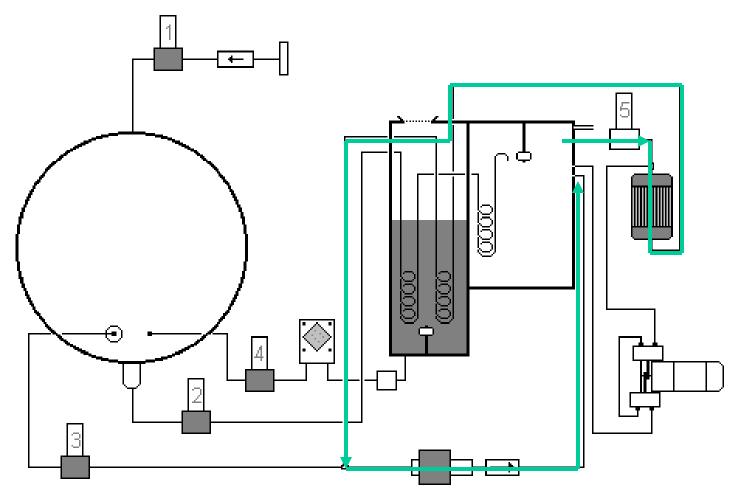


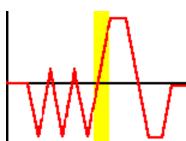




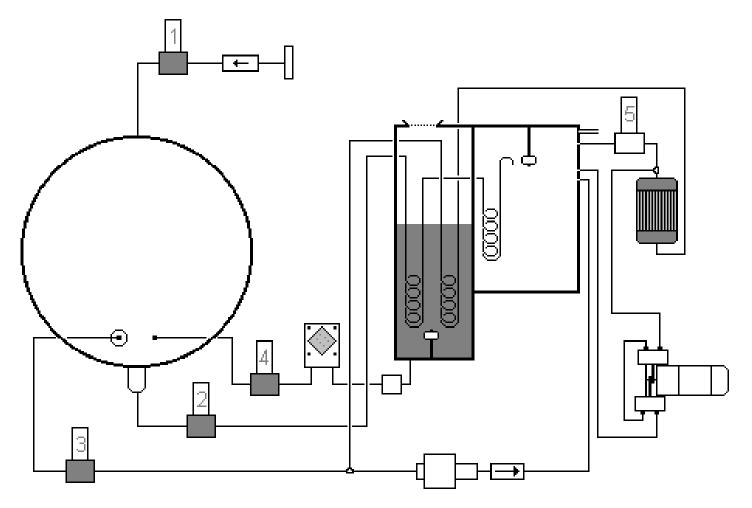


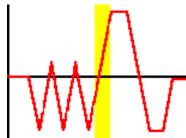




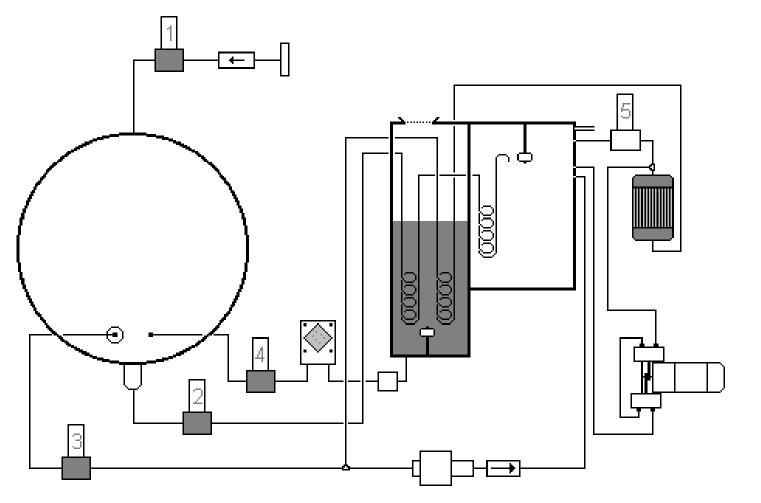




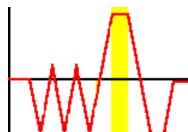




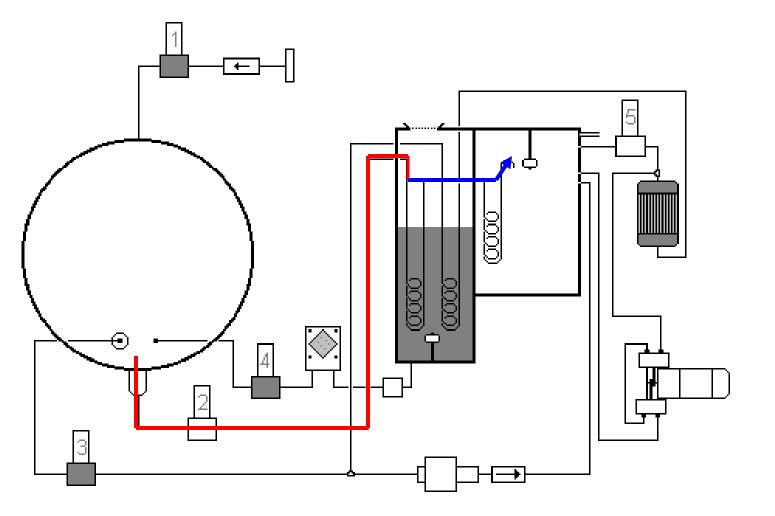




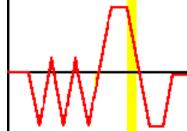
Sterilization



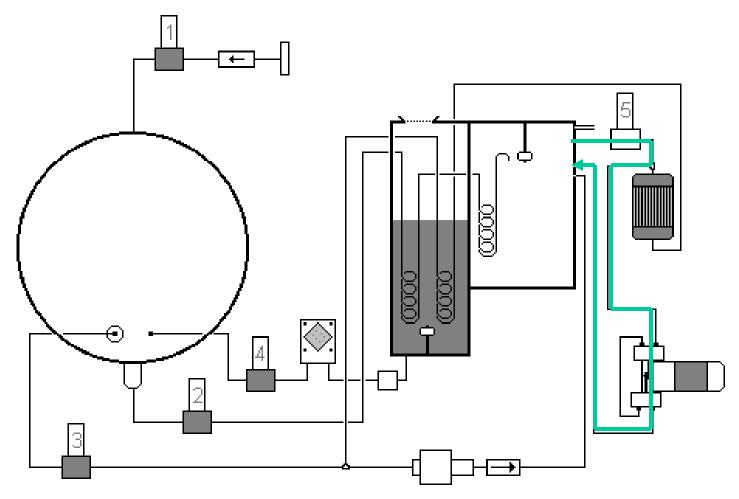




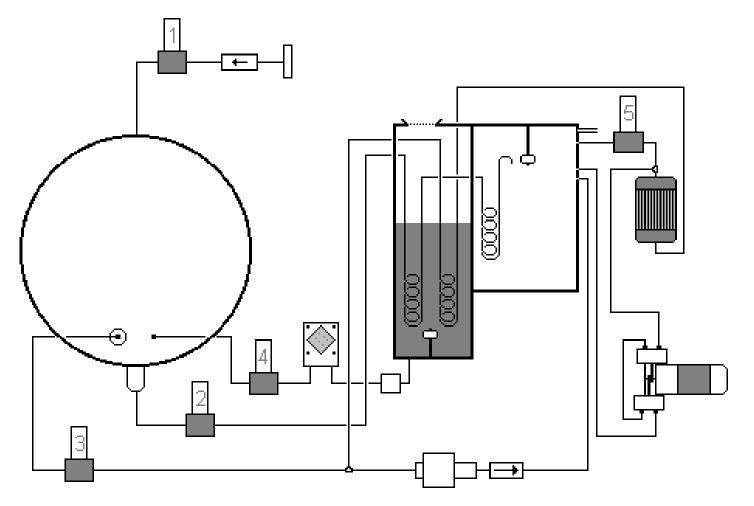
Drain

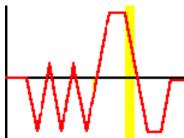




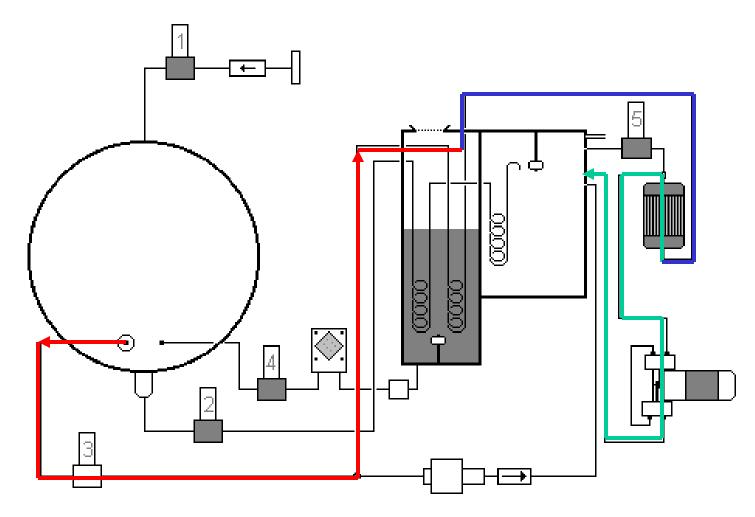




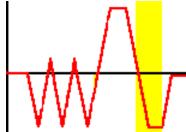




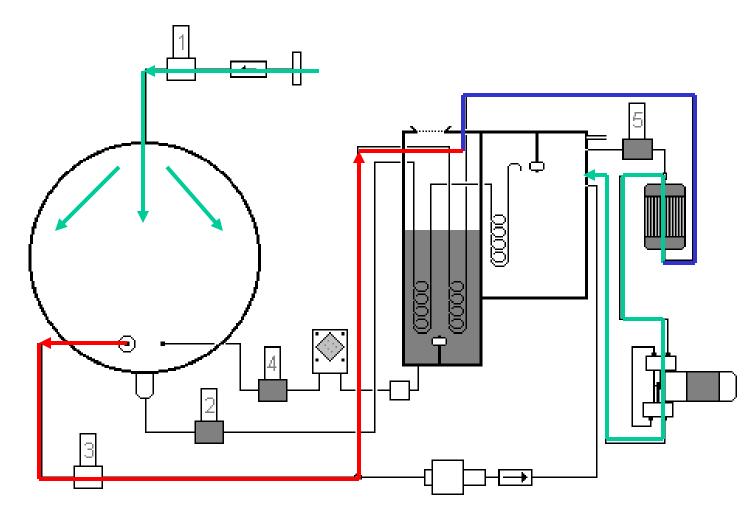




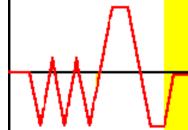
drying



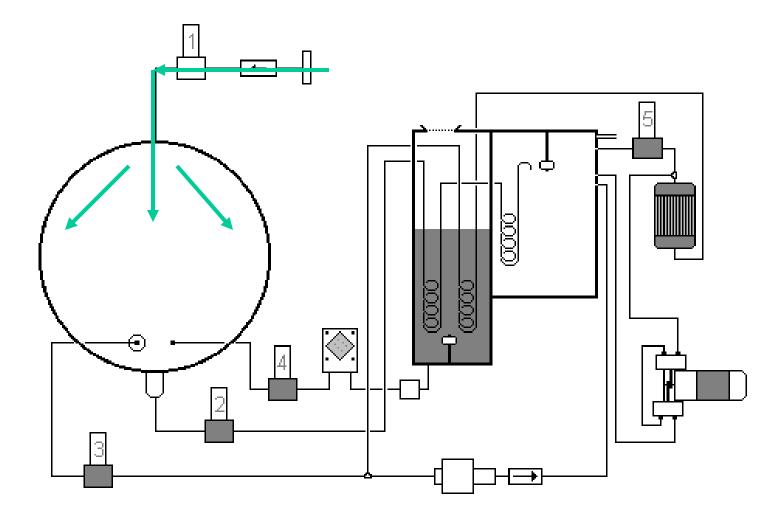




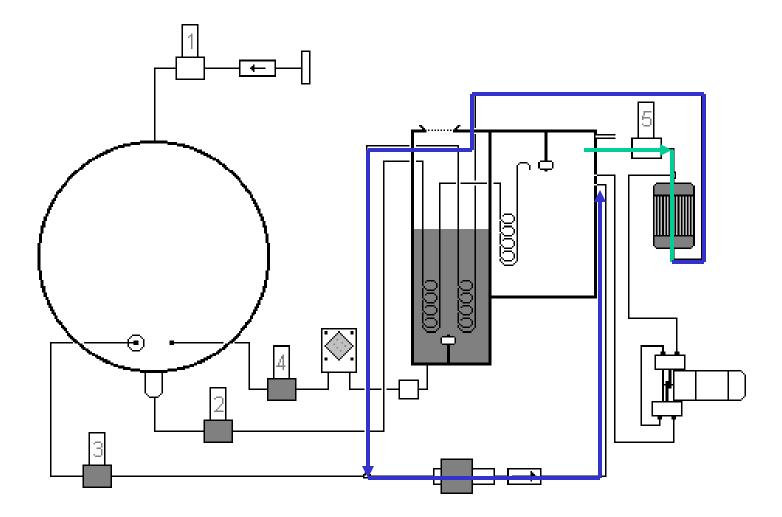
ventilation



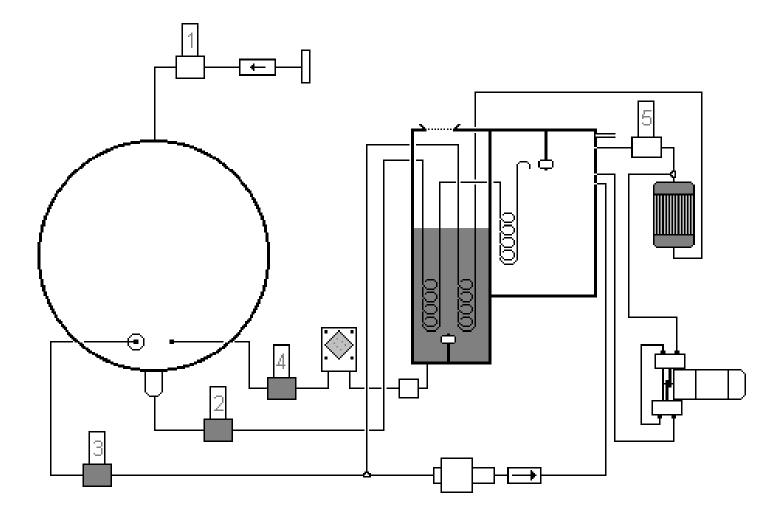




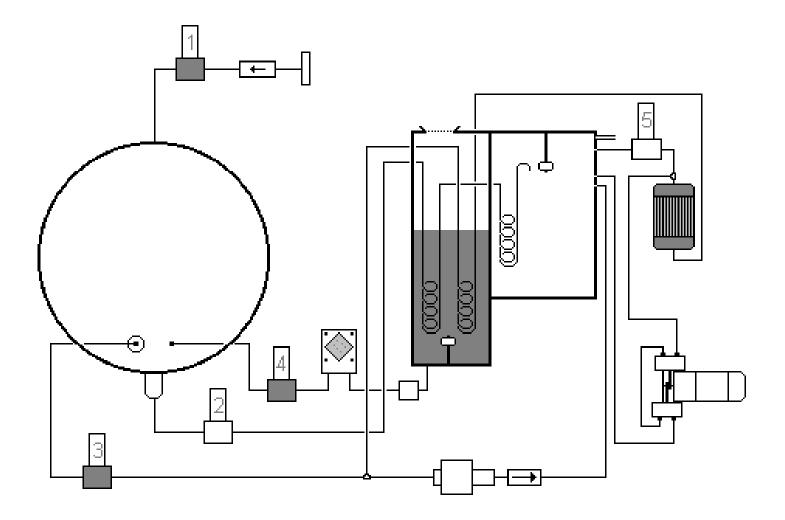












Domina PLUS B

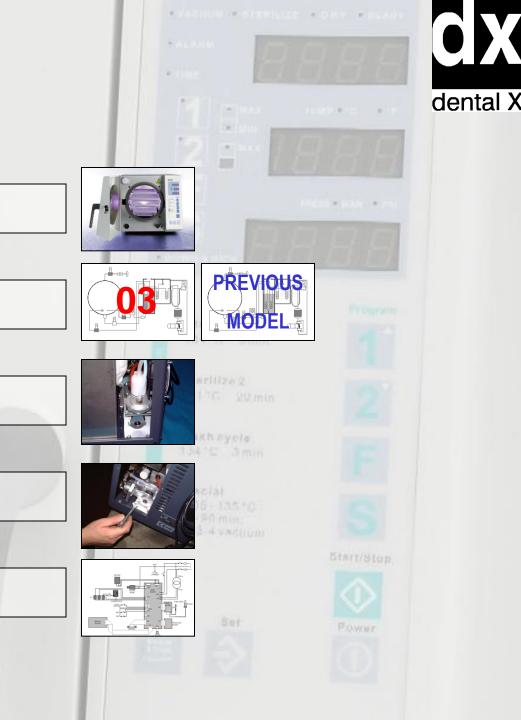
INSTALLATION

WORKING DIAGRAMS

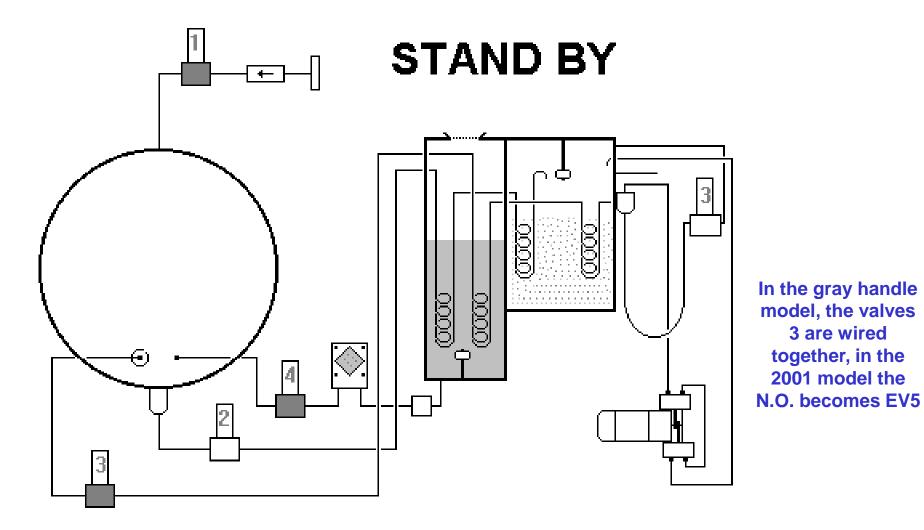
INTERNAL VIEWS

TROUBLESHOOTING

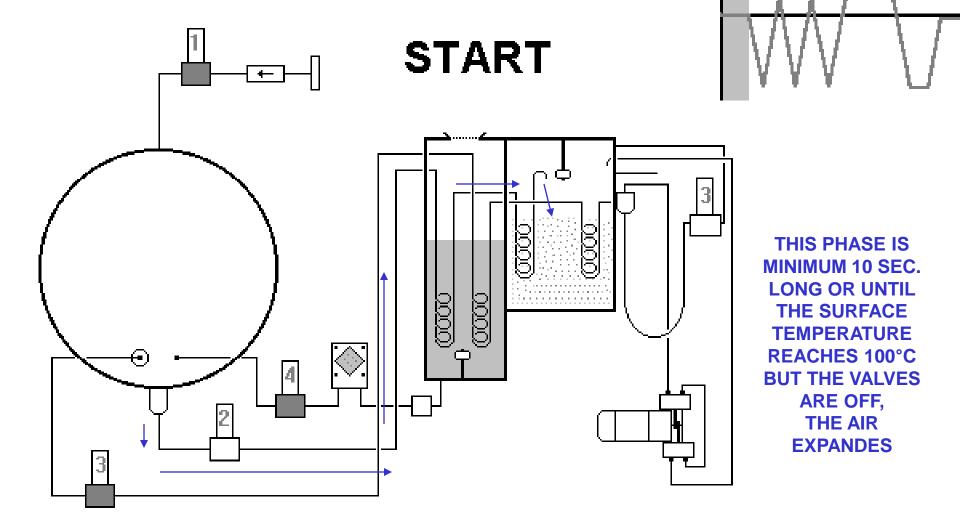
WIRING DIAGRAMS



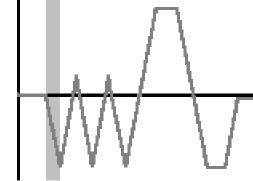


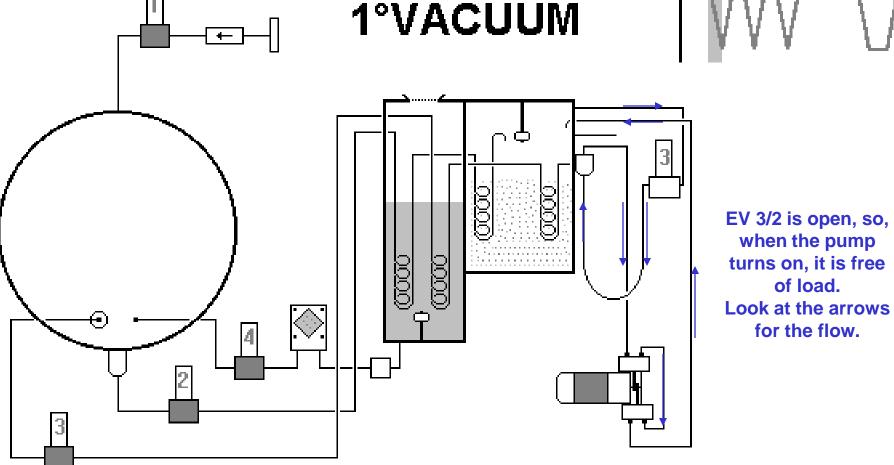




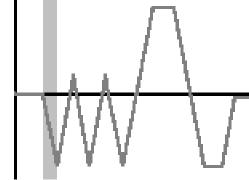


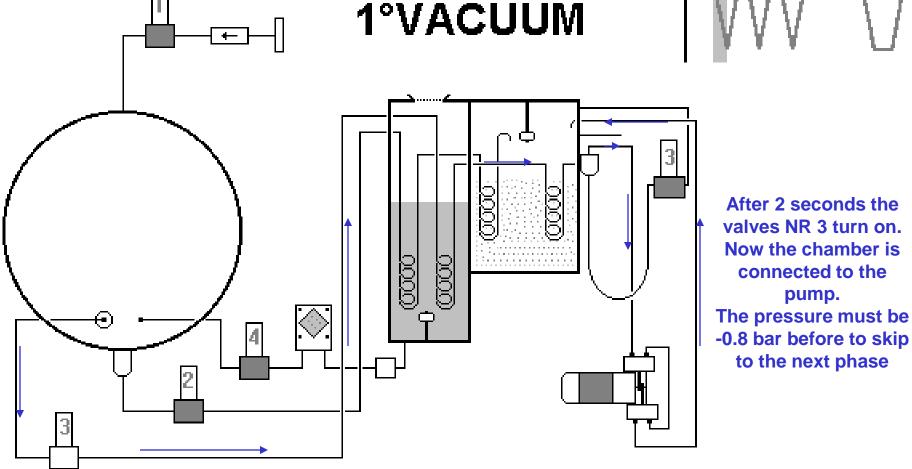




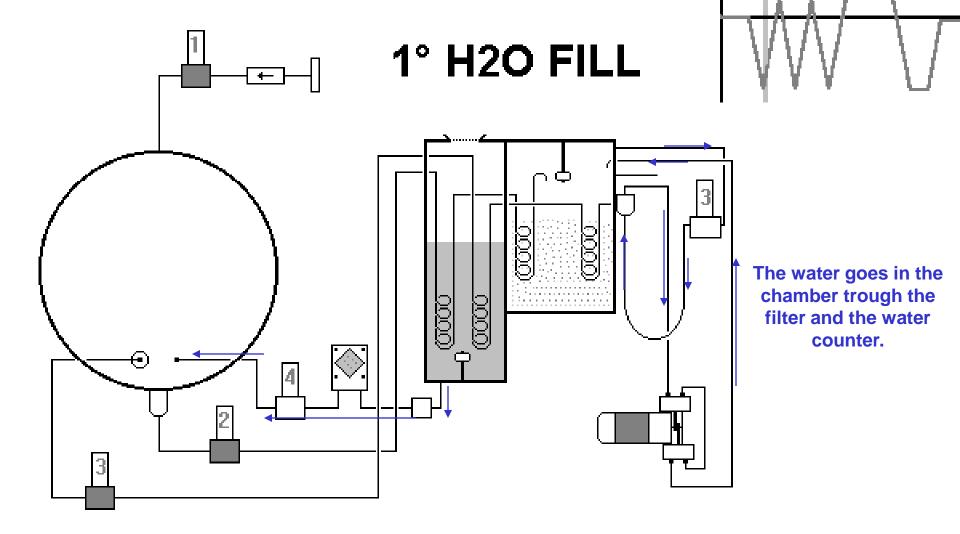




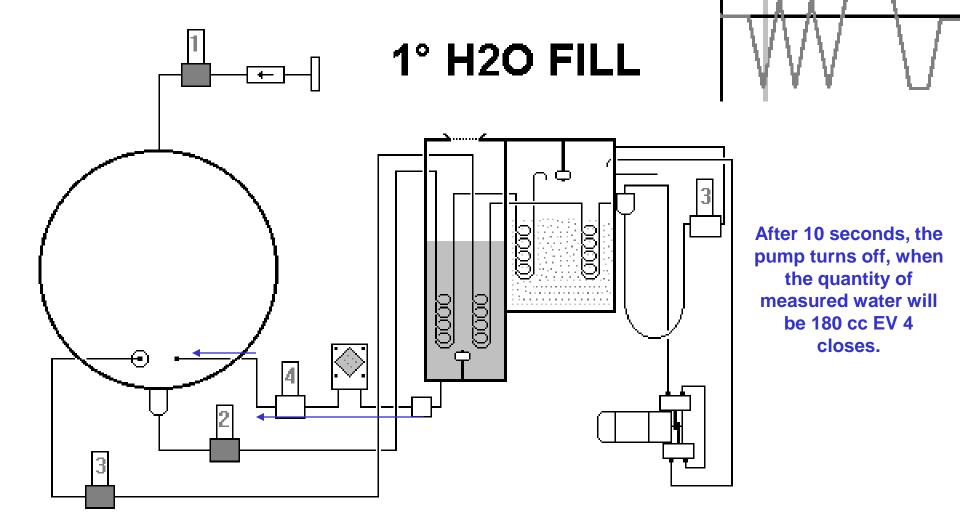




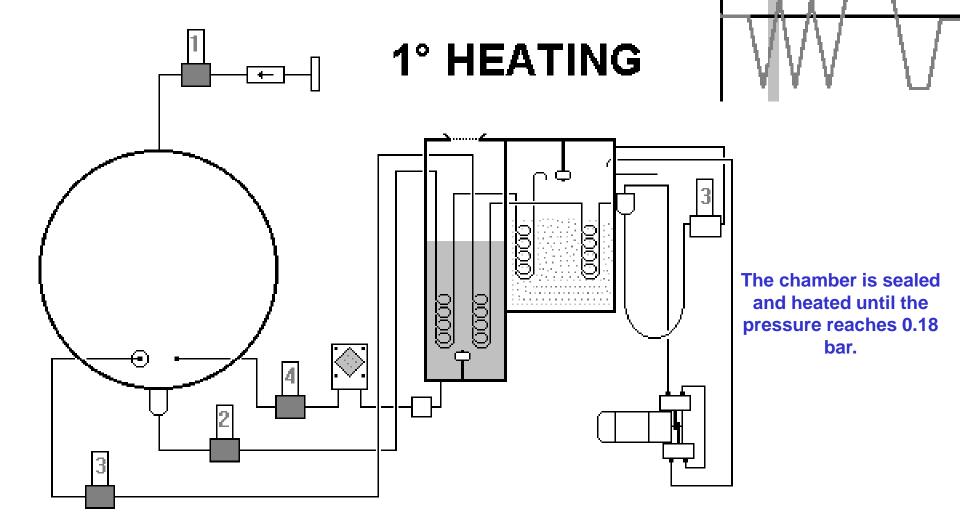




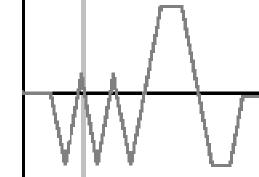


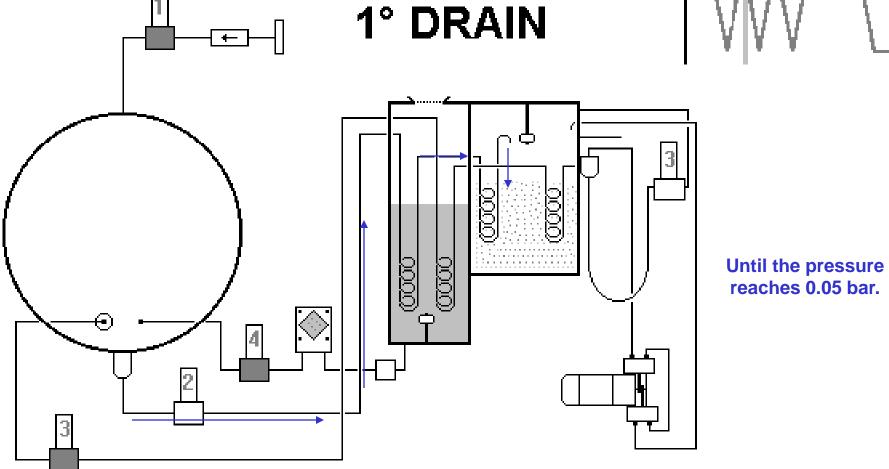




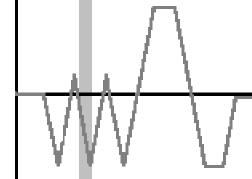


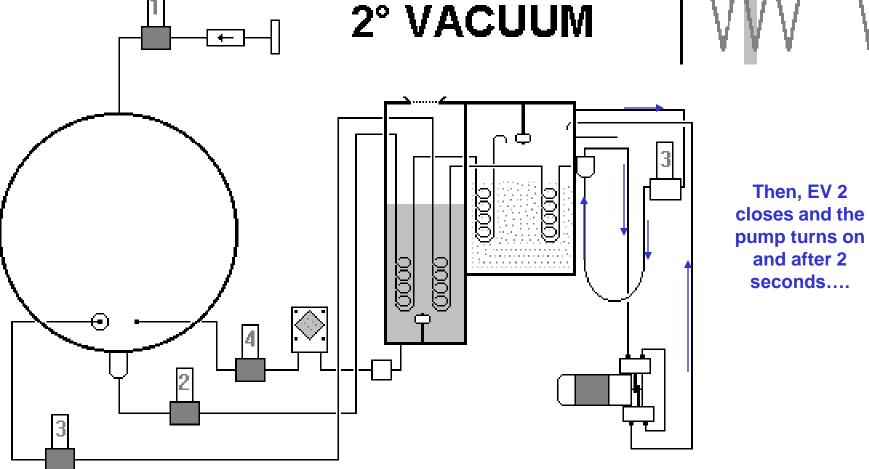




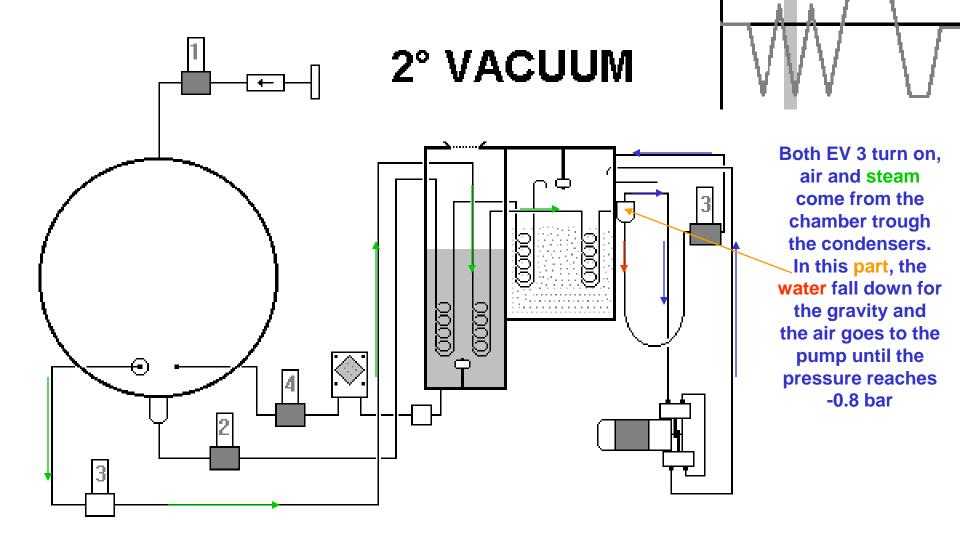




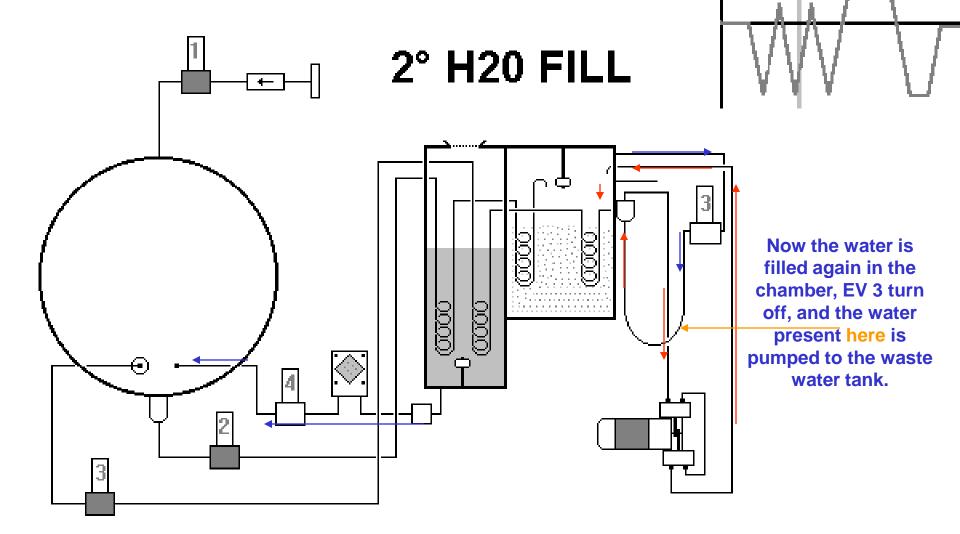




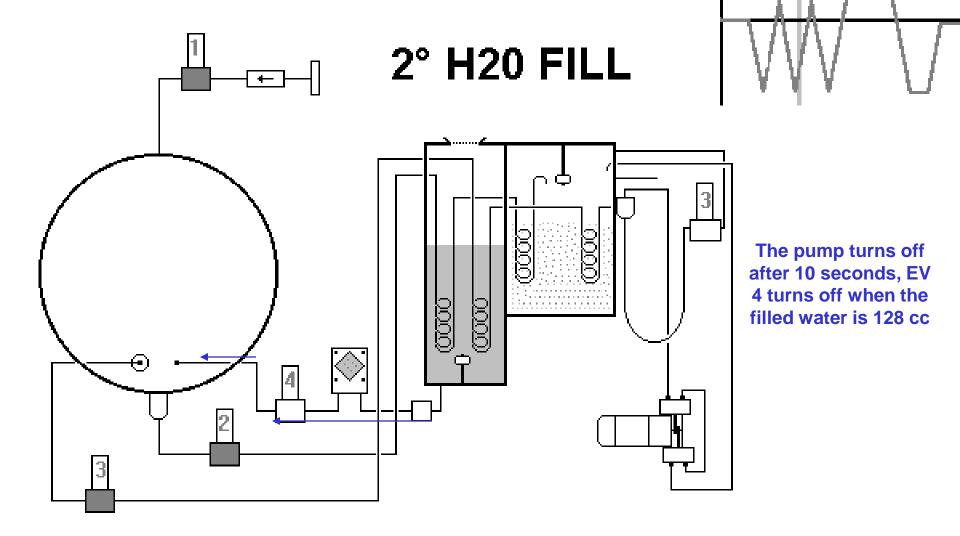




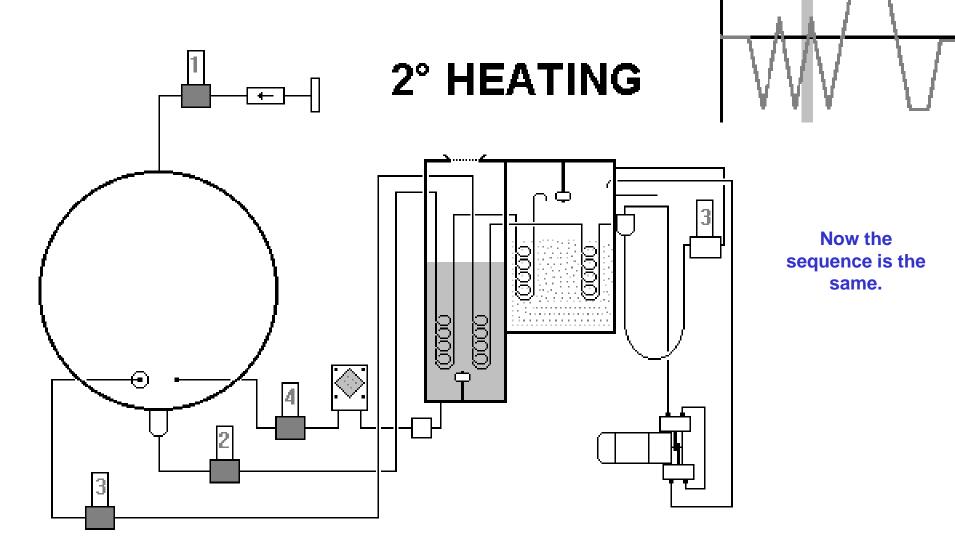




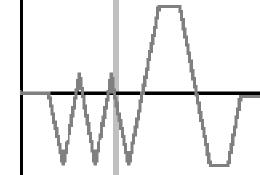


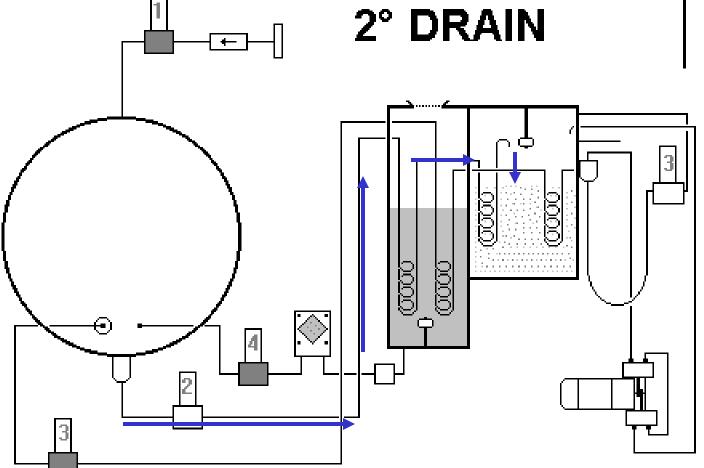




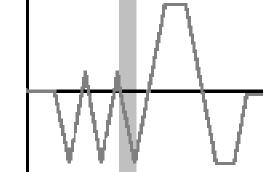


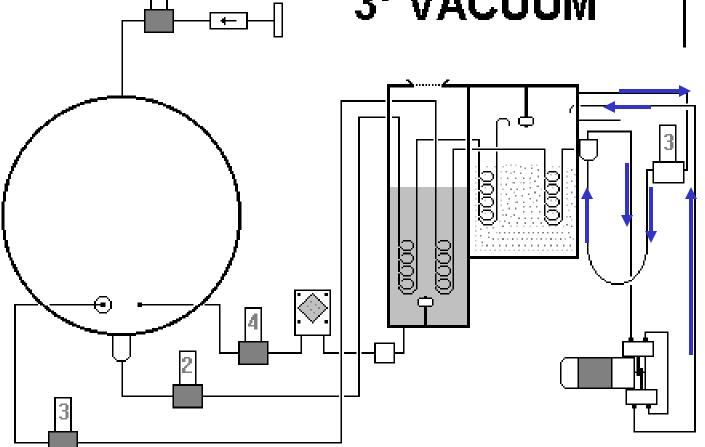






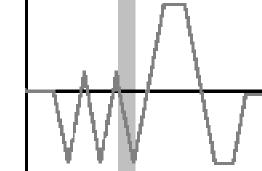


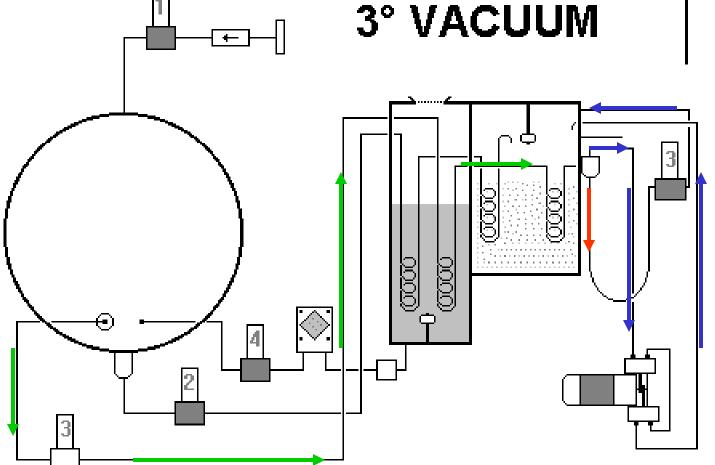




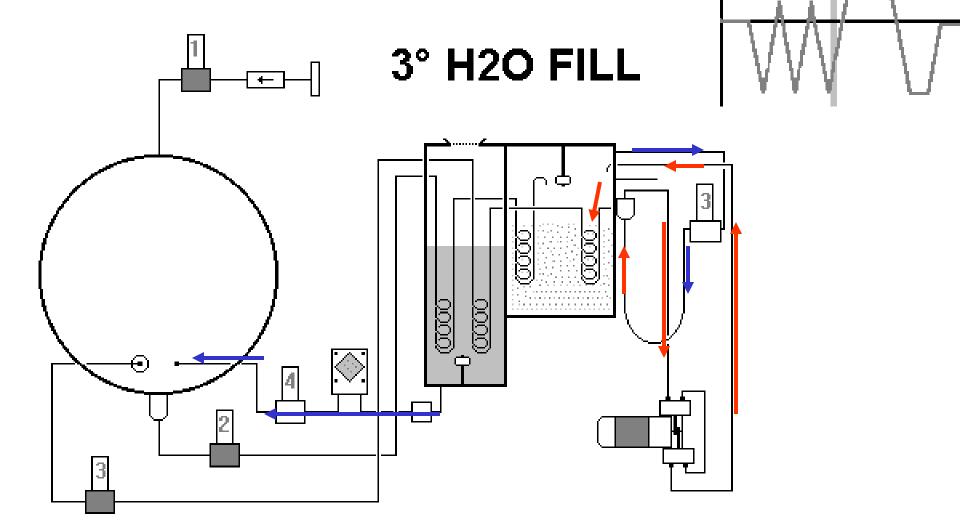
3° VACUUM



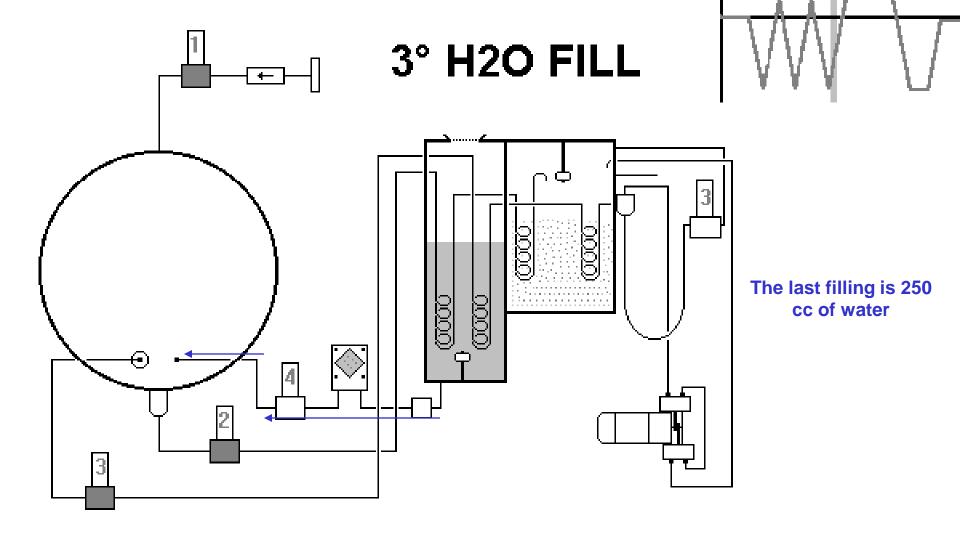




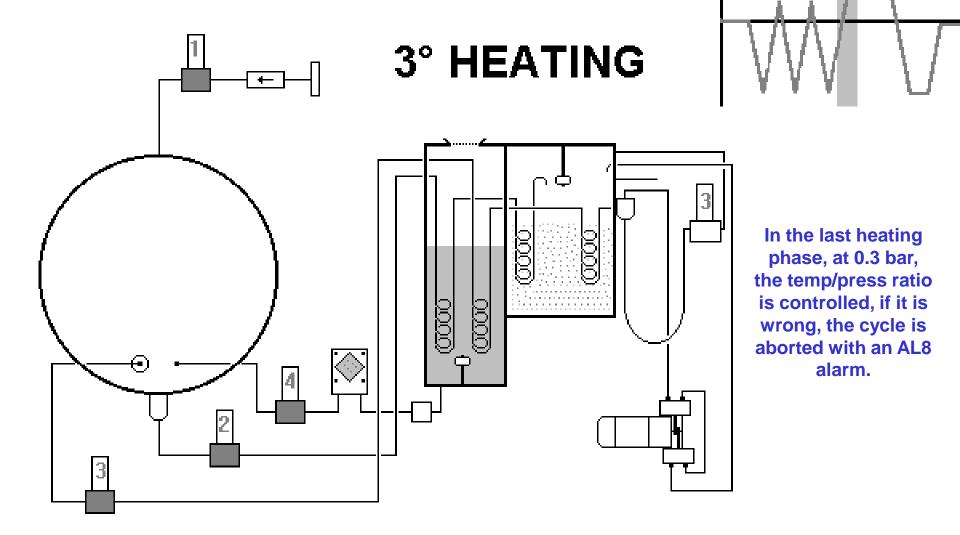




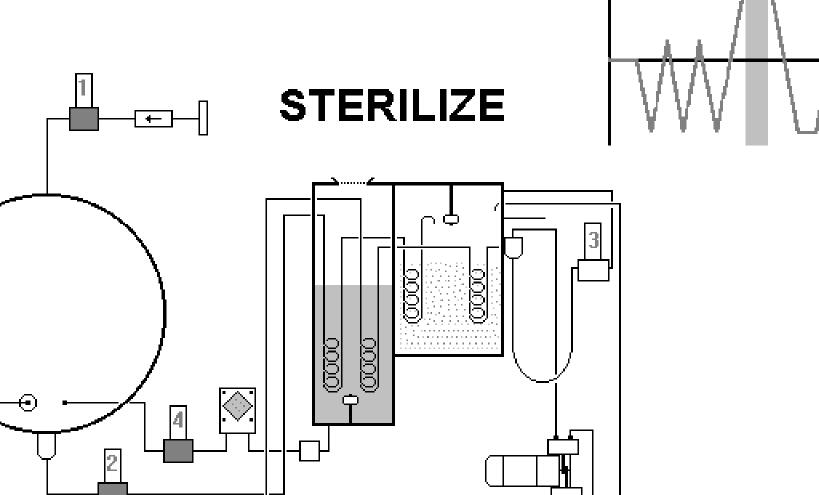




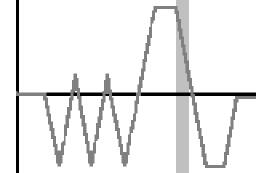


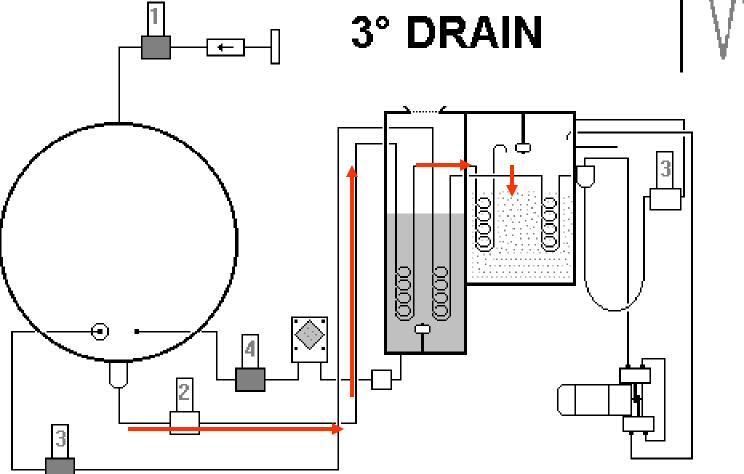




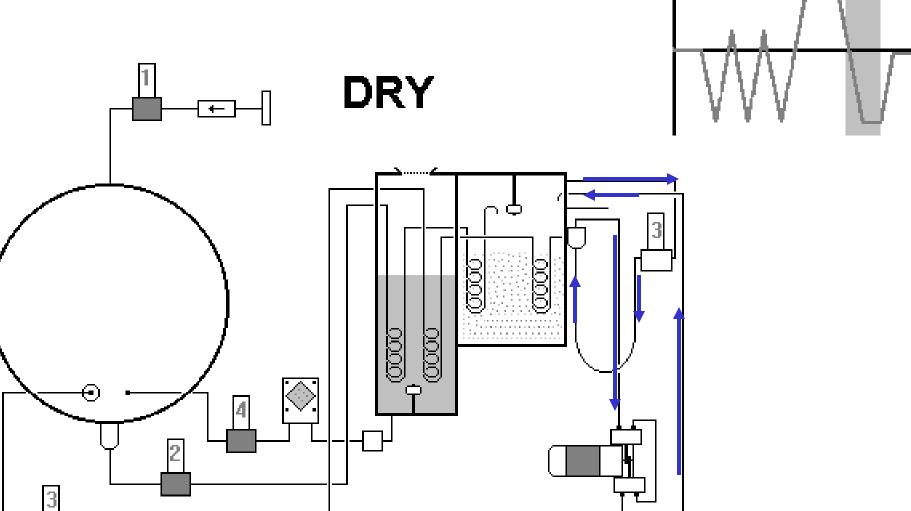




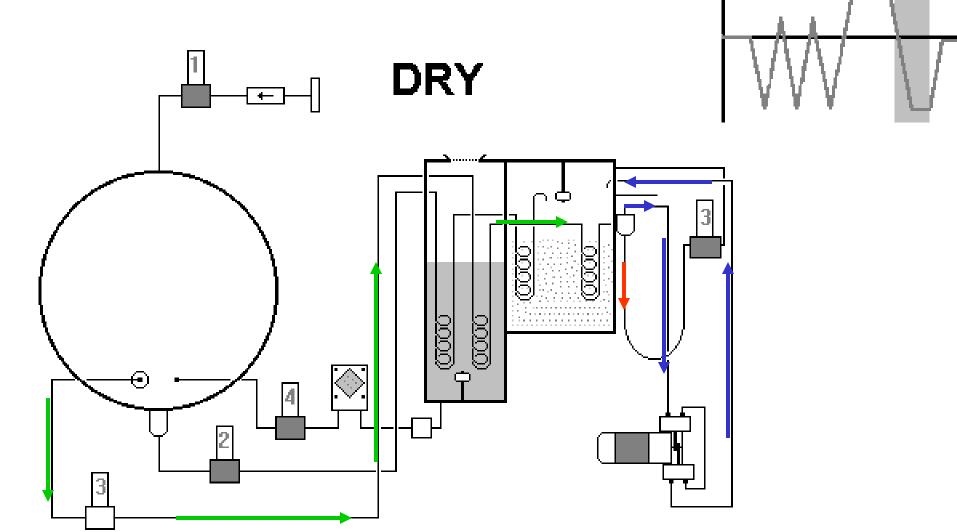




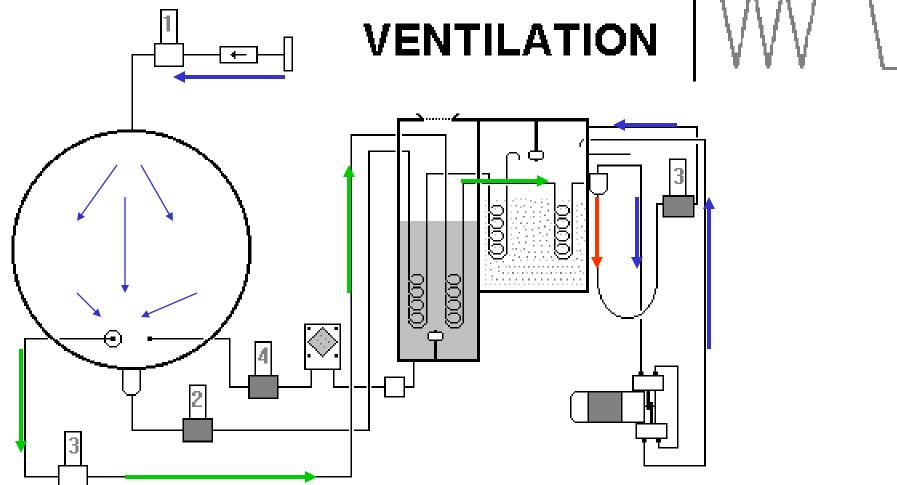




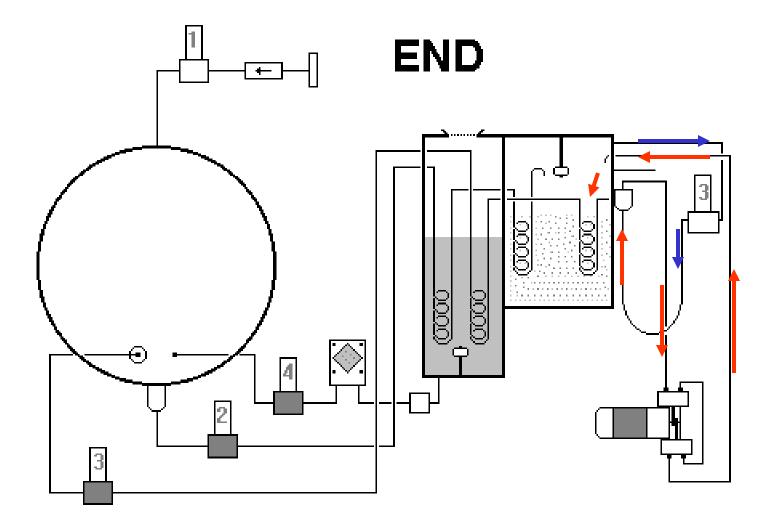




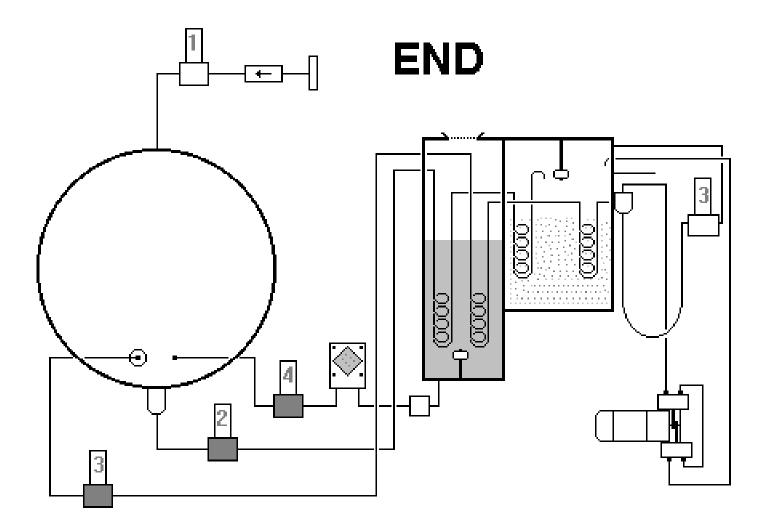












Domina PLUS B

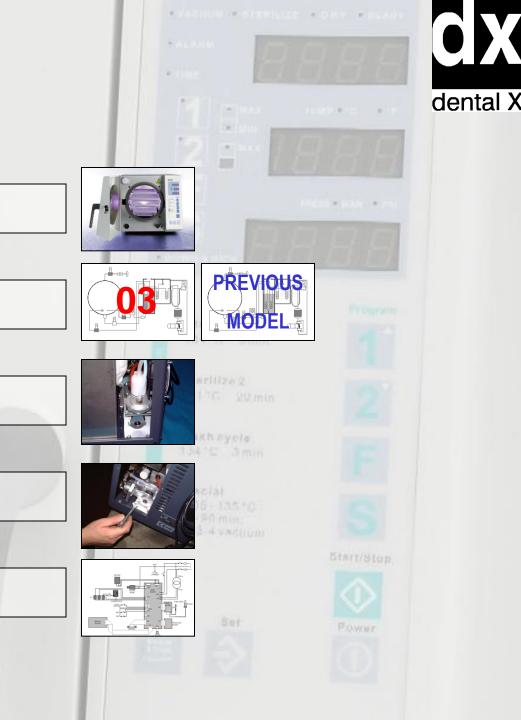
INSTALLATION

WORKING DIAGRAMS

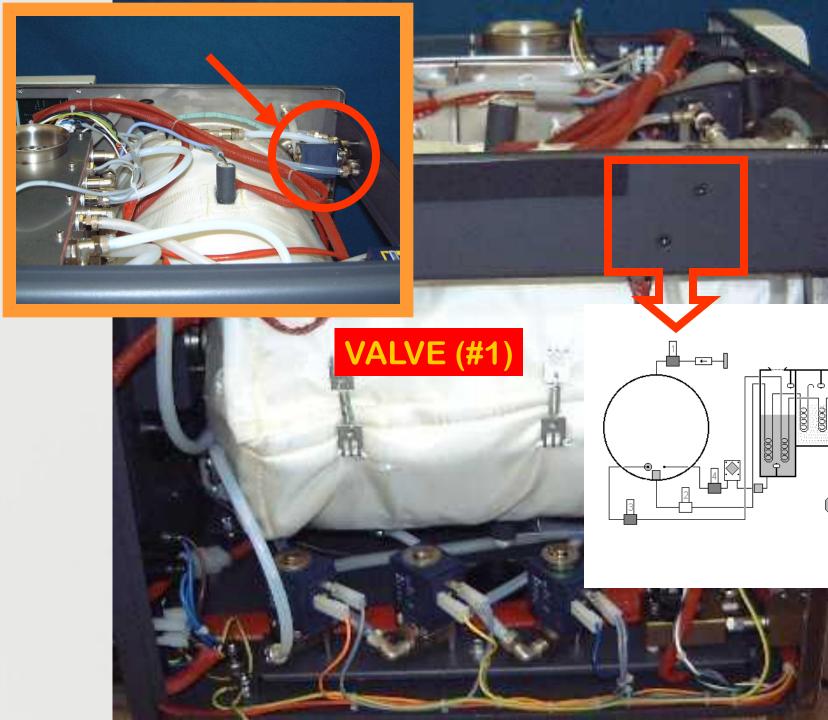
INTERNAL VIEWS

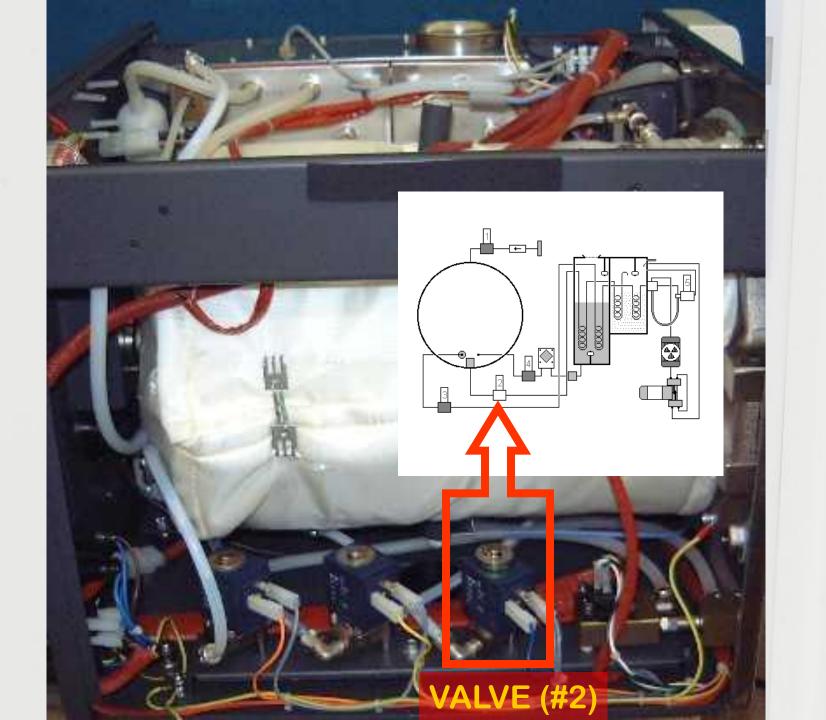
TROUBLESHOOTING

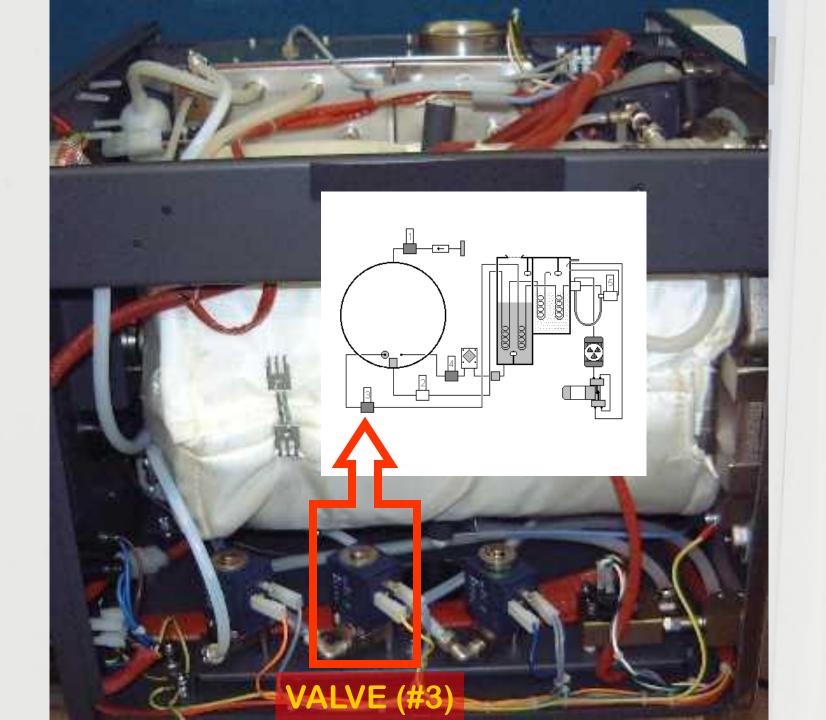
WIRING DIAGRAMS

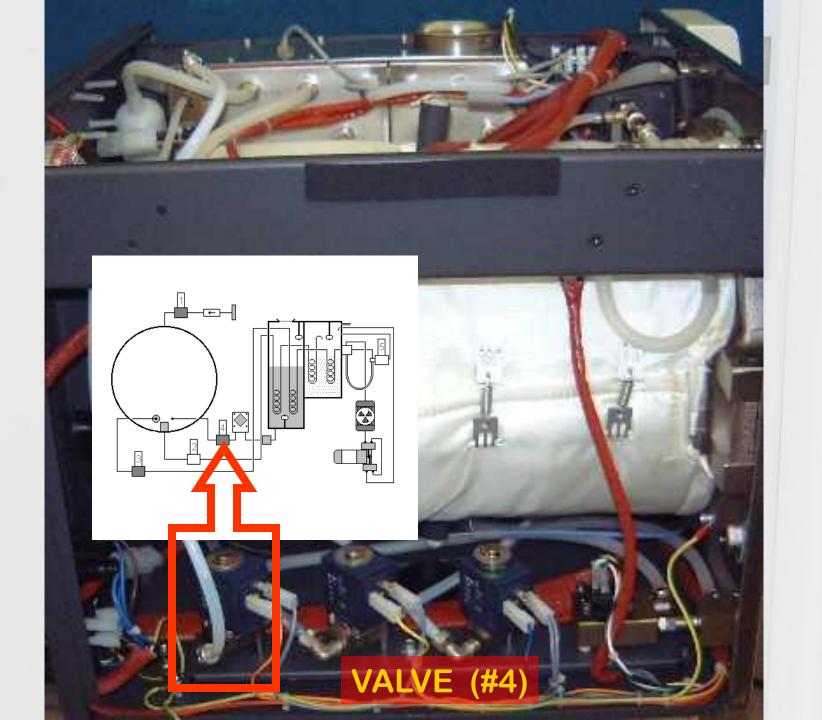


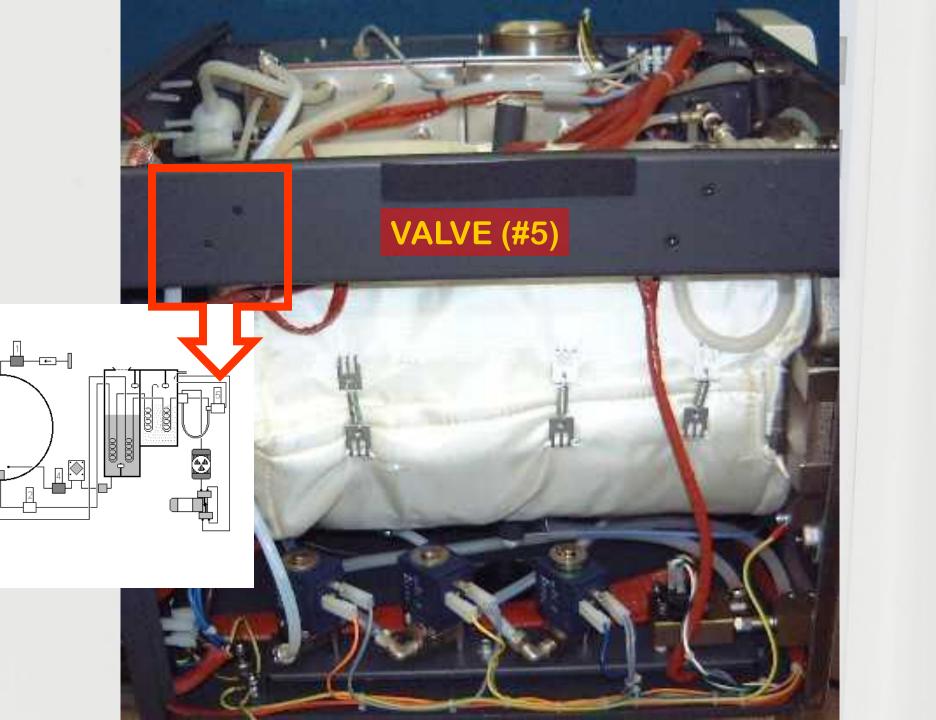






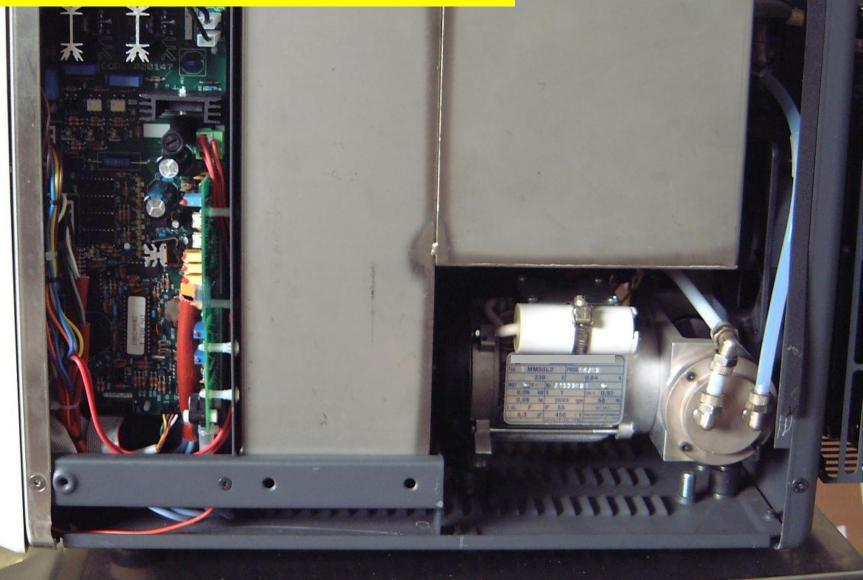






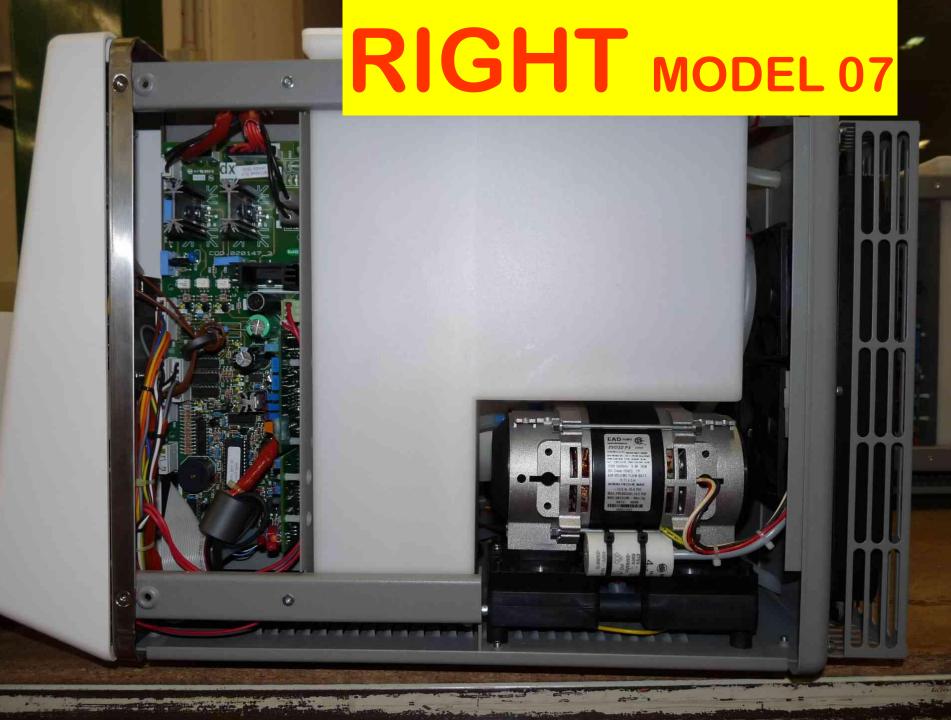


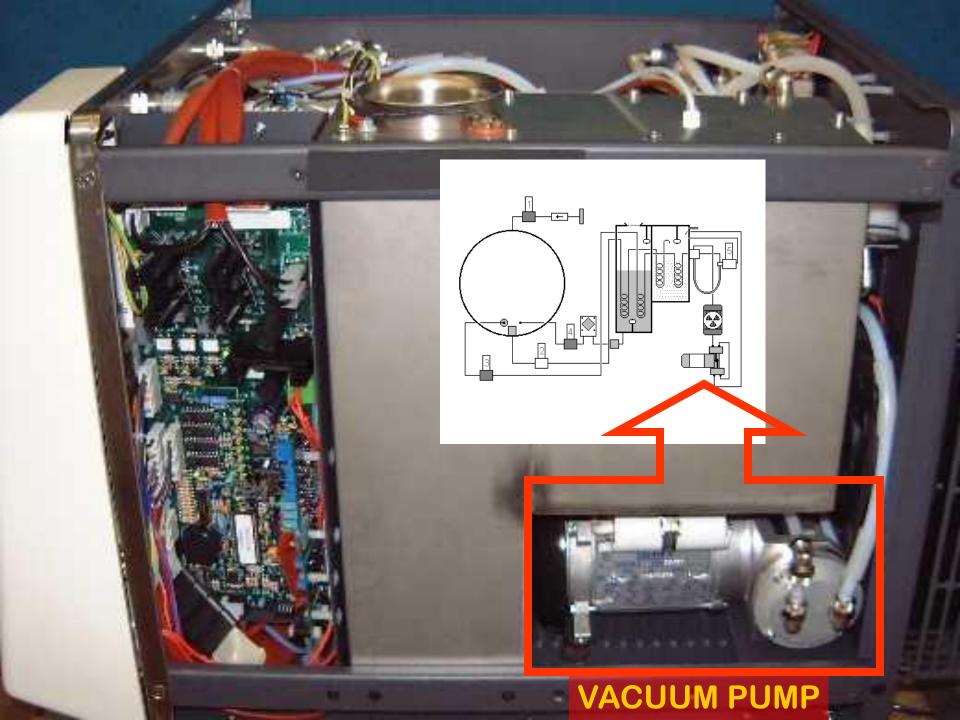
RIGHT MODEL 03



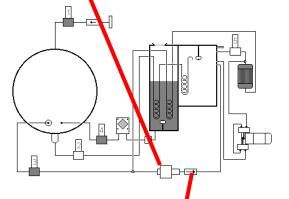
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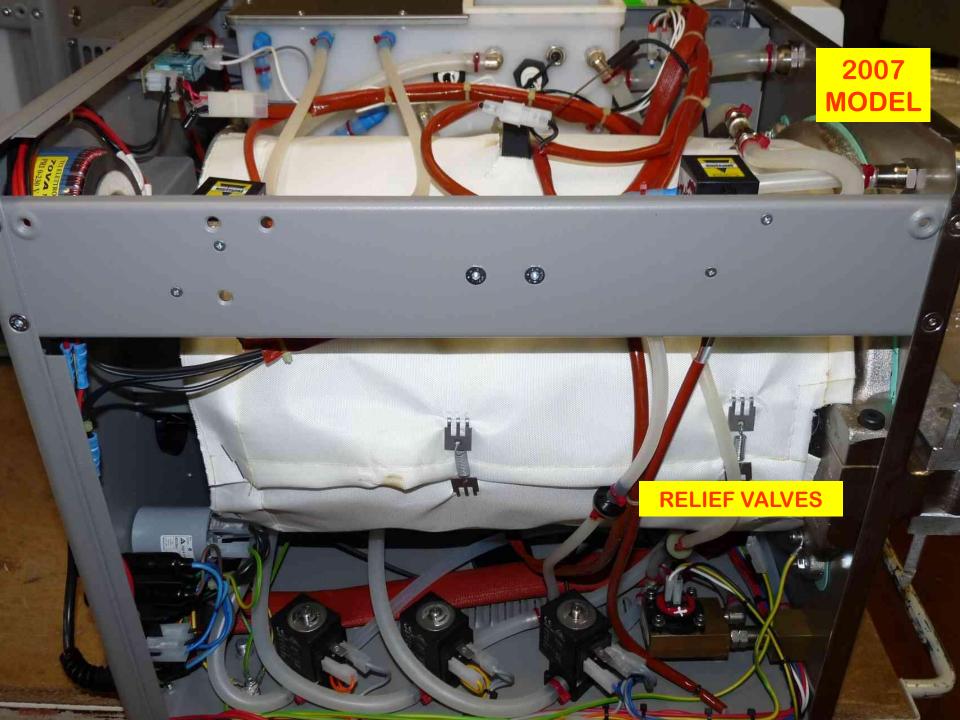
DRAIN PUMP



RELIEF VALVE

2003 MODEL ONLY

-



handle switch

0

electric locking pistor

12V DC 7W

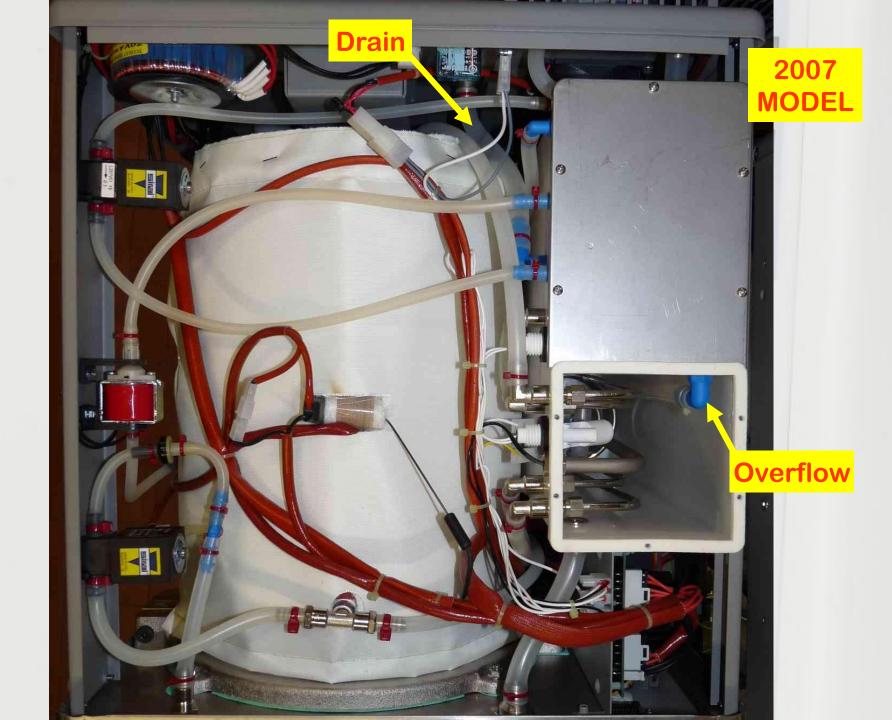
H2O hardness measure PCB

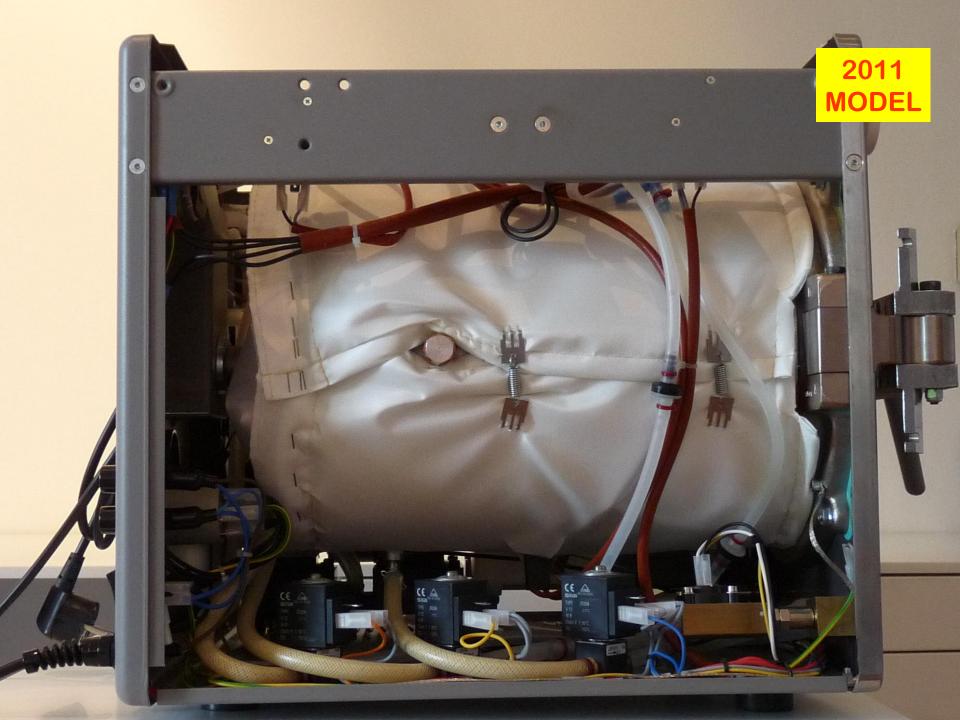
-VO

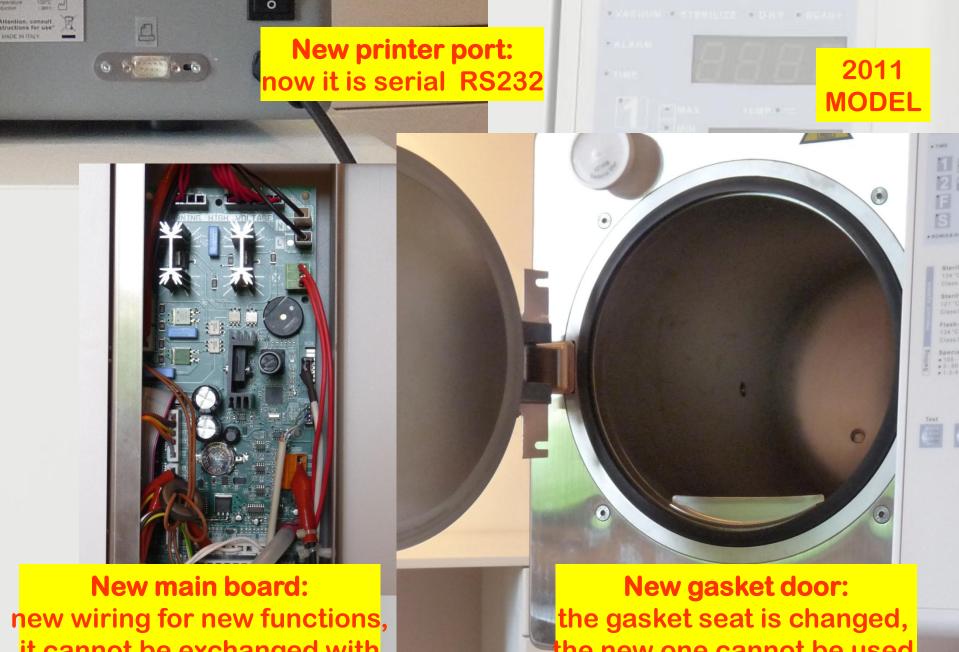
piston switch

2007

MODEL







it cannot be exchanged with the prevoius versions

the new one cannot be used on the previous units

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New hoses material for longer life

STO

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New water counter and filter housing

2011

MODEL

Domina PLUS B

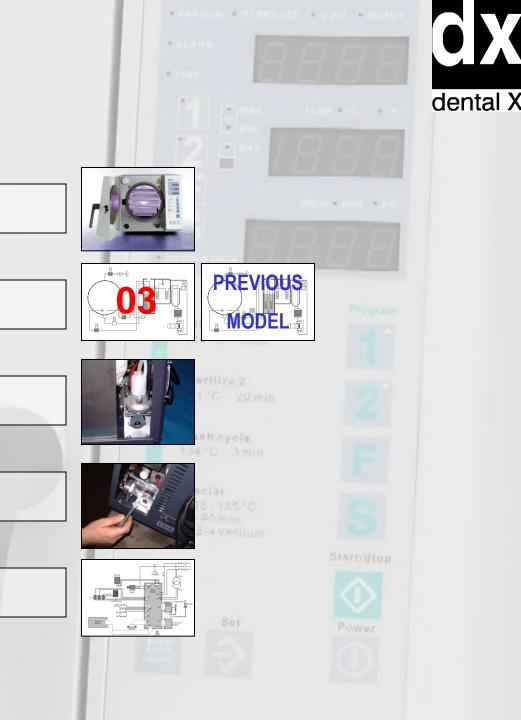
INSTALLATION

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TROUBLESHOOTING

WIRING DIAGRAMS



ALARMS

There are three levels of signals. Some messages are displayed using alphanumeric codes. For example this message means that the recovery water reservoir is full.

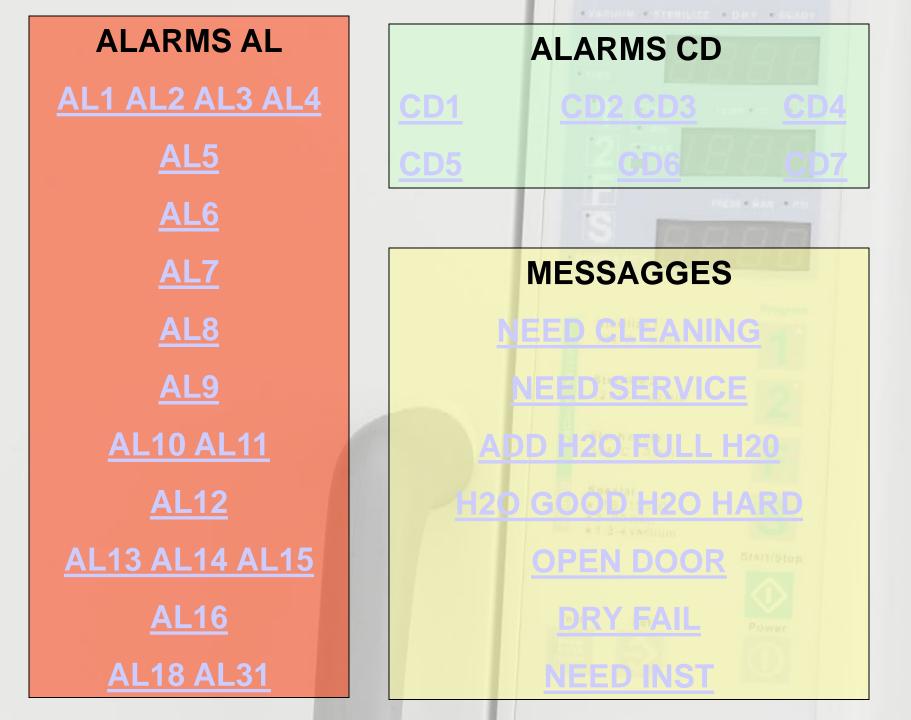


The second level of indications warn that something doesn't work perfectly but the sterility of the load is warranted.

The operator manual report a list of procedure that may solve the problem directly by the final user. These messages disappears opening the door.



The message FAIL followed by an indication AL with a number means that the cycle is interrupted and failed, the load was not sterilised. All the active components are turned off. Opening the door, the message is not cancelled.







After the first 60 cycles, if the maintenance cycle is not done, this message appears. The autoclave works properly, but the message will disappear only

when the maintenance will be done correctly and it will be displayed again after 60 cycles.

Read the paragraph MAINTENANCE of the user manual.





H20 FULL



RELEASE STERILISE # DOINT #

These messages means the was pushed the START button with the indication MIN of the clean water or MAX of the used water. It is necessary to empty the used water reservoir and to fill the clean water reservoir before to run a cycle.





H2O GOOD



These messages indicate the quality of the water in the clean reservoir. Turning on the autoclave, if the chamber is cold and the clean water reservoir is full, a measure of the conductivity is done. The switch level from good to bad is 15 microSiemens. The autoclave permits to run cycles also if the water conductivity is too high, it is an operator's decision to run cycles with water that can damage the instruments.









CONTRACTOR CONTRACTOR CONTRACTOR

Enclosed and

OPEN DOOR

It means that the START button was pushed with the door not properly closed.

Thet Bet



DRY FAIL

the stabilities within wi

The door was opened during the drying phase in a cycle where the drying is not considered fundamental (3 and special 4)





NEEDINST

This message appears trying to turn on the autoclave without following the correct procedure of installation.

The sequence must be: maintaining pushed the button 1, push POWER. The door must be close and the clean water reservoir must be filled over the minimum level.

It is possible to force again the message **NEED INST** pushing together 4 and **POWER** from off condition.

This function was designed for the following transfers of the autoclave for service or maintenance in a service centre.





NEED SERVICE

After one year from the installation date (or before is 2000 cycles are done), this message indicate that it is time for a special maintenance and for a check of the calibration.

It is enough push a button to cancel this message and use the autoclave, but it will appears again at the next turning on.

To cancel completely this message (for one year) it is necessary to press together the first three program buttons from the off condition. This function was inserted for follow the request of periodical validation of the sterilisation process.

A common trouble that comes out in the first weeks of use is caused by the user that changes involuntarily the setup of the clock increasing the YEAR adjustment, in this case the unit "thinks" that is time for service: it is enough to adjust correctly the clock to eliminate the message



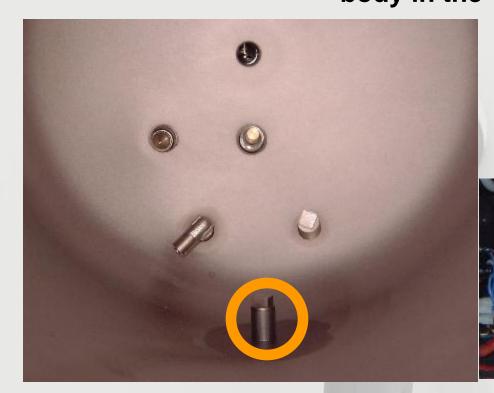


LANK # STERILISE # DAY #1

This alarm appears if the time of drain is longer than 4 minutes.

Cause: the drain filter in the chamber is dirty, clean it or replace it, eventually run the maintenance cycle.

If the problem is not solved, verify if there are closed hoses or foreign body in the valve 2.





CD 2 and CD3

The heating time was longer than 25 minutes Cause: the most probable is that the line tension is too low, verify if it is in the limits (230V +/- 10%). An excessive load may cause this alarm. It is never happened, but theoretically it is possible that an heater is broken. Check the wiring, the heater connection and the protection

thermostat.



FS

Start/Stop



Edmin







The water filling phase has reached the time limit of 50 seconds. Cause: the water filter is obstructed, clean or replace it.



If this operation is not enough to solve the problem, it is possible that is obstructed also the calibrated hole in the water counter: it is required to dismount the counter and clean it.







There was a water flow bigger than 5 cc during a phase of the cycle where the valve 4 must be close.

Cause: valve 4 is dirty, usually the problem will solve by itself running some cycles, if not, it is necessary to open and clean the valve.





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At the end of the ventilation phase, the residual pressure in the chamber is lower than -0.3 bar. Cause: the bacterial filter is dirty, replace it.



If the replacement of the filter doesn't solve the problem, check valve 1



The limit vacuum time is reached (8 minutes).

In optimal conditions, the required time to complete the vacuum phase is around 2-3 minutes; if the required level of vacuum is not reached in 8 minutes but it is enough to insure the sterilisation, (0,76 bar in the first phase, 0,7 for the following at 0-100m of altitude), the program goes to the next phase inserting in the memory an index. If this condition is repeated in the three following cycles, the message CD7 is displayed.

The causes may be:

- -the chamber filter is dirty
- -the gasket door is dirty or damaged
- -the vacuum pump is dirty or consumed
- -the altitude is not inserted correctly
- -the inclination of the autoclave is not correct
- -there is a leakage in the circuit
- -the radiator is full of dust or has a leakage
- -the cooling fan(s) is (are) not working





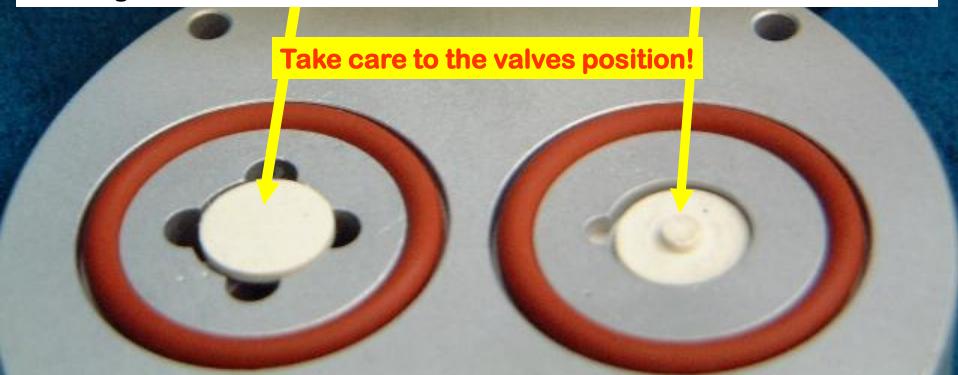
To verify the efficiency of the vacuum pump it is enough to connect a vacuum-meter directly at the pump head. Push sequentially SET than POWER, on the display appears the message TEST OUT, pushing 3 the pump turns on: after few seconds, the instrument must show a value lower than –0,84 bar.





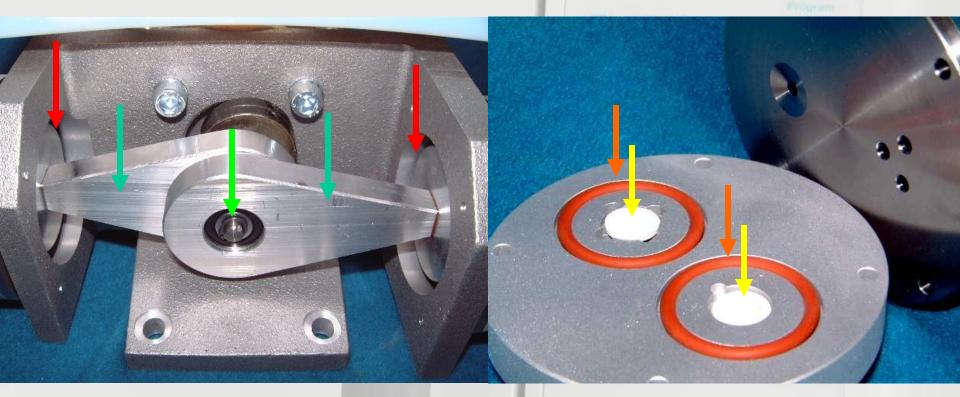


If the measured value is higher, probably the values are dirty: it is required to open the pump head and clean the values and the value's housing.





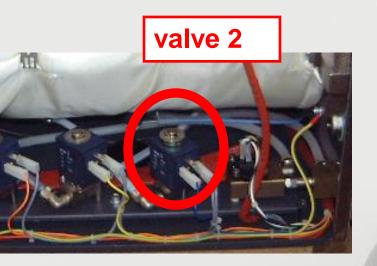
If you find the diaphragm broken it is available a repair kit composed by:, o-rings, valves, diaphragm, bearing balls and rod assembled. For the pumps produced before July 2001 it is suggested the replacement with a serviced pump available for a special price.





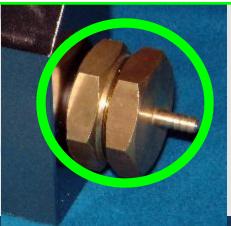
To find a vacuum leakage is harder than to find a pressure leakage! Using the program VACUUM you have 15 minutes to find the hole; the measure of the pressure on the display is really useful.

The most exposed parts to a vacuum leak are:

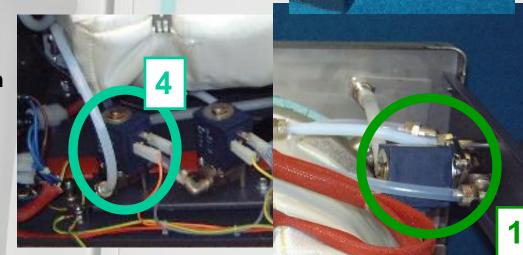




Door's safety pistor



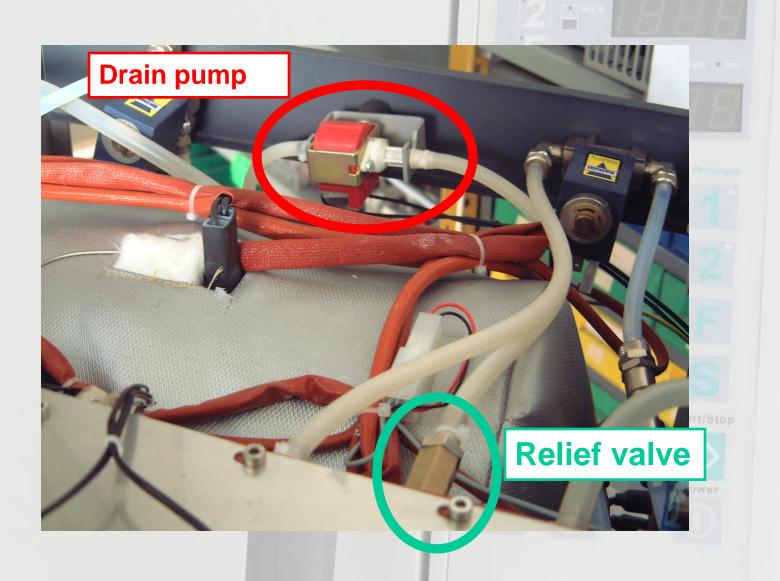
If the autoclave is hot, the VACUUM TEST doesn't start. It is possible to run a similar test disconnecting a wire from valve 1 and from valve 4, start a cycle and stop it when the vacuum pump stops the first time, pushing only one time the button START/STOP





WARHIN'S STRULICE + DHY. + AGADY

In the 2003 model, verify also the Drain pump and the Relief valve

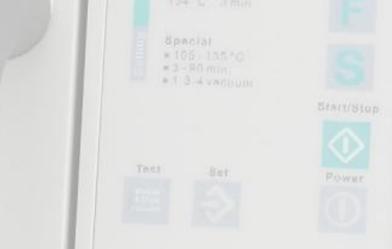




AL1 AL2 AL3 AL4

During the auto diagnosis, it tested the resistance of the coils of the valves: if it is open or in short circuit, an alarm with the same number of the valve is displayed.

We never found interrupted coils so, if one of this alarms appears, please check the wiring before to replace a valve.



WARPHILLS ADD -



AL 5

In the heating phases, every 10 minutes, it is verified if the pressure increasing is higher than 0.16 bar. If not, this alarm is displayed.

The cause is usually an insufficient quantity of water in the chamber. We want to remind you that the quantity of water required depends on the temperature that we want to reach and on the quantity and quality of the load: so may happens that some alarms appear only with full load. The origin of this alarm is, the most of the time, a missing maintenance:

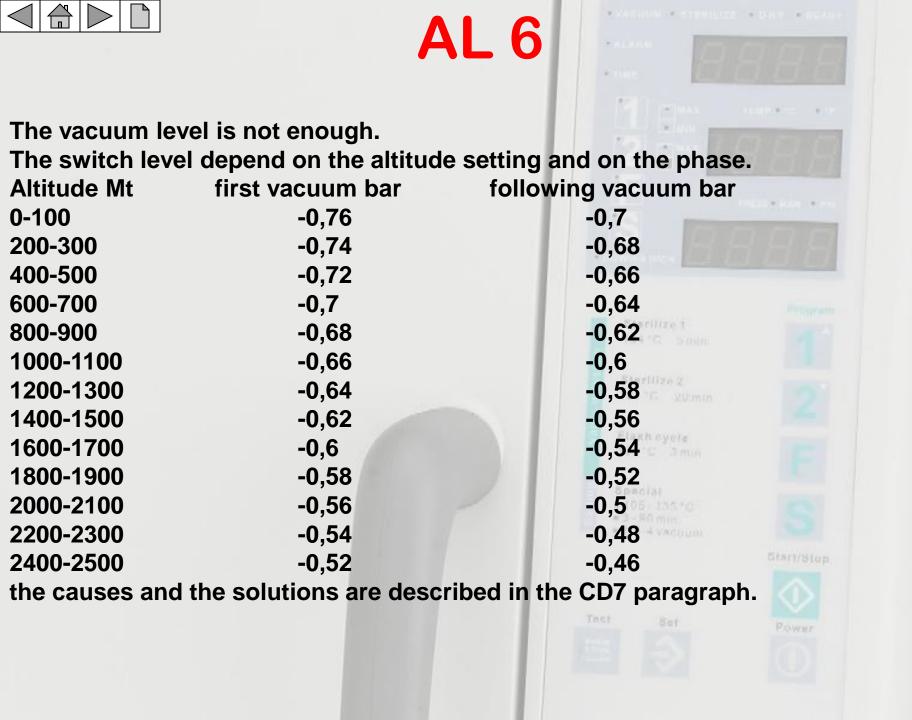
the frontal water filter is dirty.

Read CD4 instructions.

If the filter is clean, may be that the alarm is caused by a pressure leak and the water is lost before to reach the working pressure.

The most exposed component to this risk is the valve 2







AL 7

The door has been opened during the cycle. There is a pneumatic protection that lock the door so it is not possible to do it if in the chamber there is a dangerous pressure. Verify the door switch function.

To look at the switch it is enough to dismount the control panel. In the Y07 model, it indicates that the locking mechanism is not activated or the handle is not in the correct position





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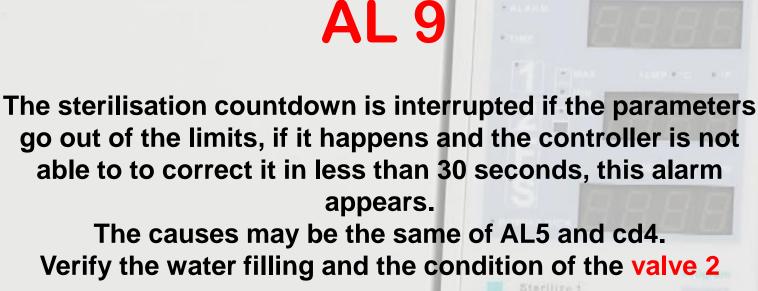
After three vacuum phases there is too much air in the chamber. This control is done when the pressure reaches 0,3 bar: the temperature must be higher than 104°C. The most frequent cause is a too low altitude setting. An excessive amount of air may be caused by a chamber or a valve during a vacuum phase. Run the vacuum test.

A wrong adjustment of temperature or pressure sensor may force this alarm or a wrong function of the air exhaust system.









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AL 10

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During the sterilisation phase, the pressure value is increased more than 0.14 bar respect to the reference.

The heaters must be turned of by the main board: verify, when the **R.DWN** Led is off, the tension on the lower heater (it must be zero) and when the **R.UP** Led is off, the tension on the lower heaters must be zero





AL 11



In the sterilisation phase, the pressure value is decreased below the reference.

Probably, an hose has broken or the safety valve opens too early.







AI 12



The difference of the steam temperature from the reference is more than +\-3°C in the sterilisation phase. Look at AL10.

Verify the steam temperature sensor connection on the board.





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The admitted rage of reading of the temperature sensors is 4-168°C, if the reading exits from this range, the microprocessor turns off all the outputs and display this alarm.

It may appear in winter time during the installation: wait ten minutes with the door open before to turn it on.

AL15 and AL14 may occur in case of missing water in the chamber: look at CD4 paragraph.

We fount some cases where the alarm was created by water drops on the temperature board: it may happens if the reservoir is overfilled quickly.

Verify the thermocouple integrity (it is a short circuit).

ATTENTION! The steam sensor's

replacement requires the verify

of the calibration!







The pressure reading was higher than 2,4bar. May be that the heater are out of, check the paragraph AL10. Verify if the pressure board is correctly inserted on the main board; eventually replace it with a new calibrated board. Don't try to adjust it if you don't have a high grade pressure reference.

AL 16







or a rate barab



Edmont

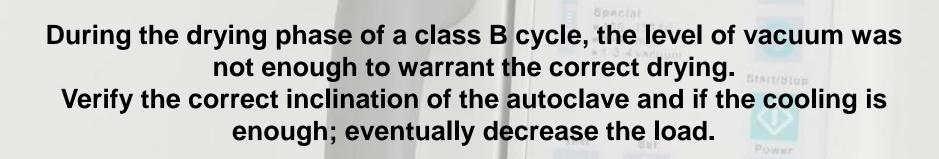




The door was opened during the drying phase in a class B cycle. Look at AL7. Eliminated in the Y07 model

AL 18

THE REPORT OF A DESIGN OF



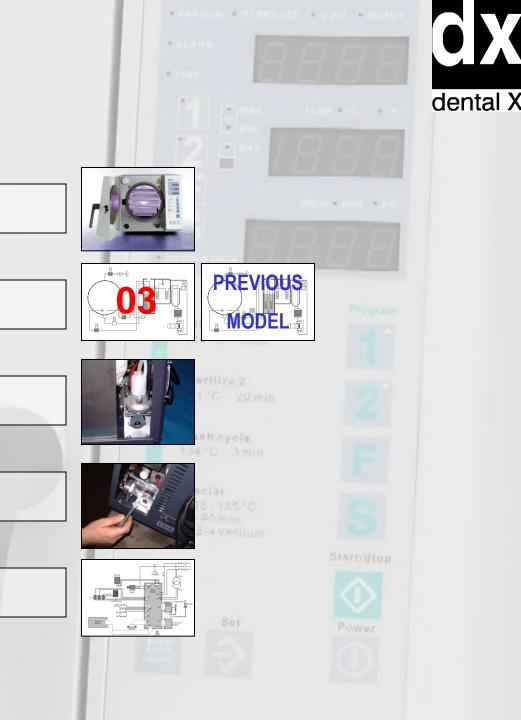
AL 31

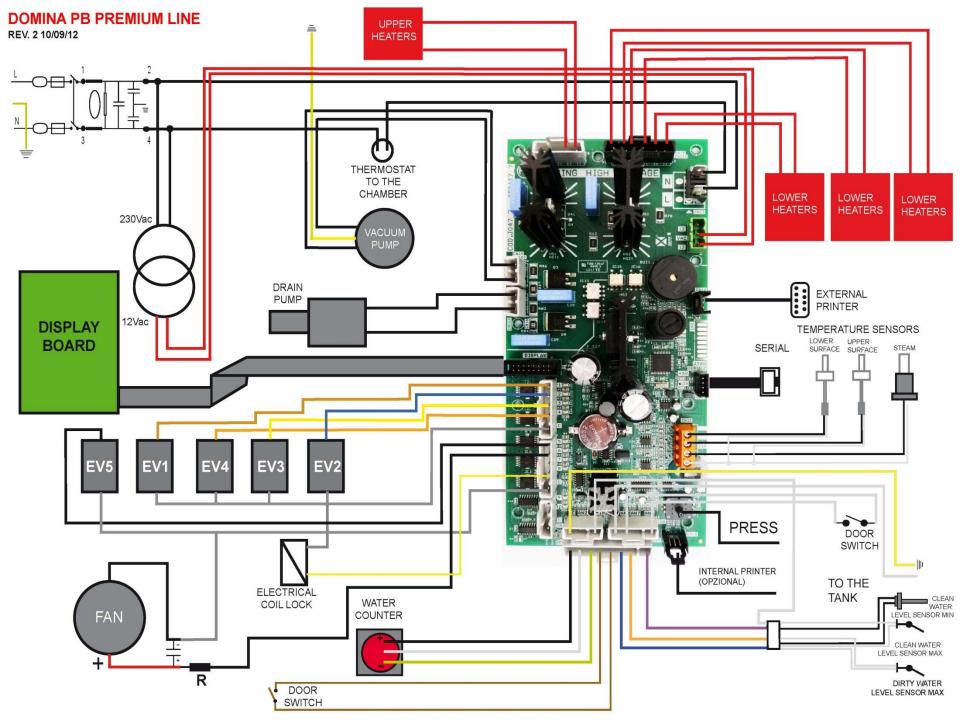
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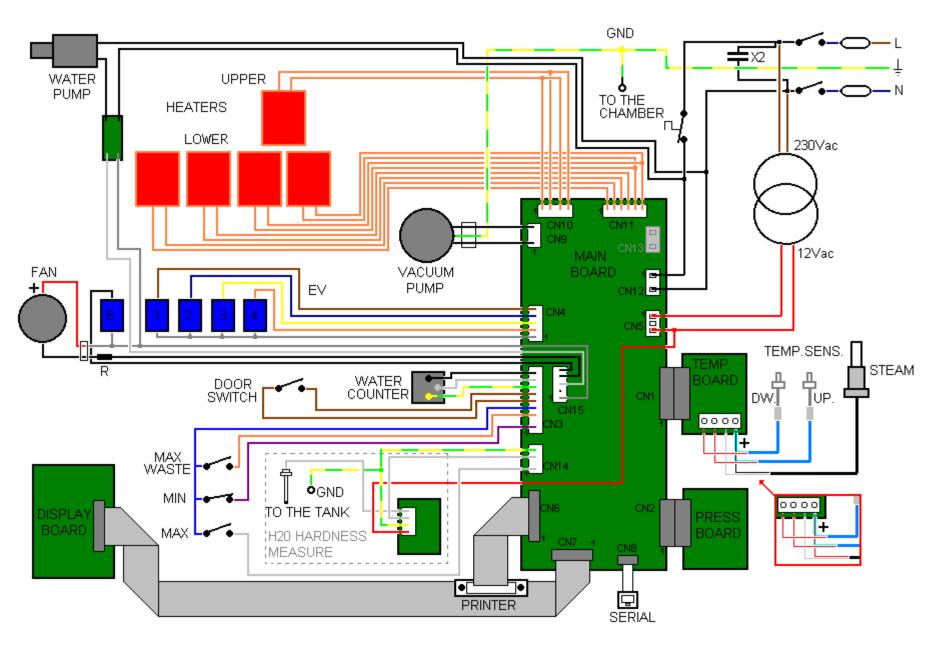
INTERNAL VIEWS

TROUBLESHOOTING

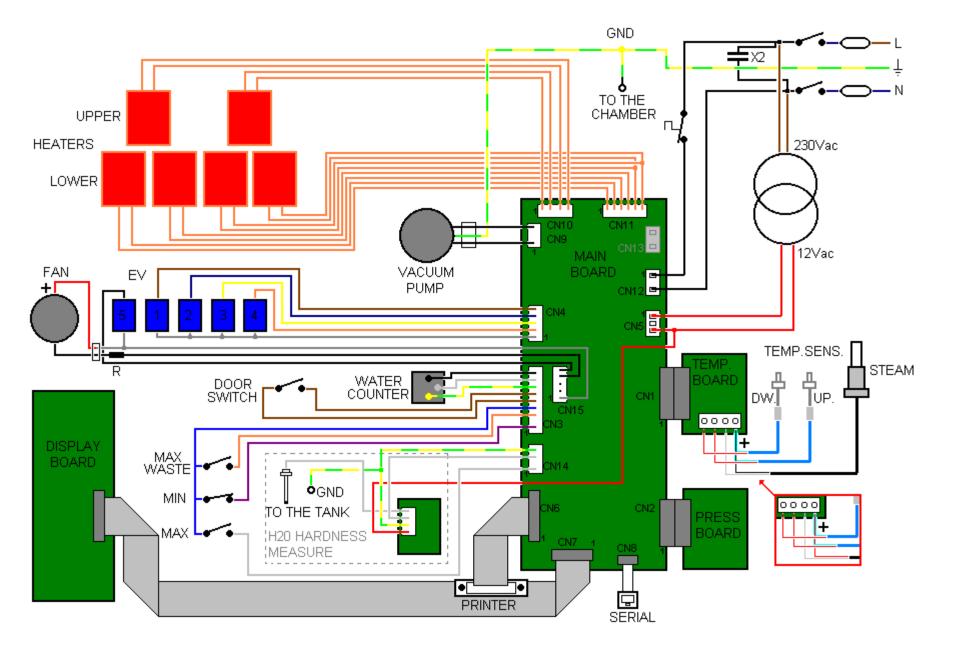










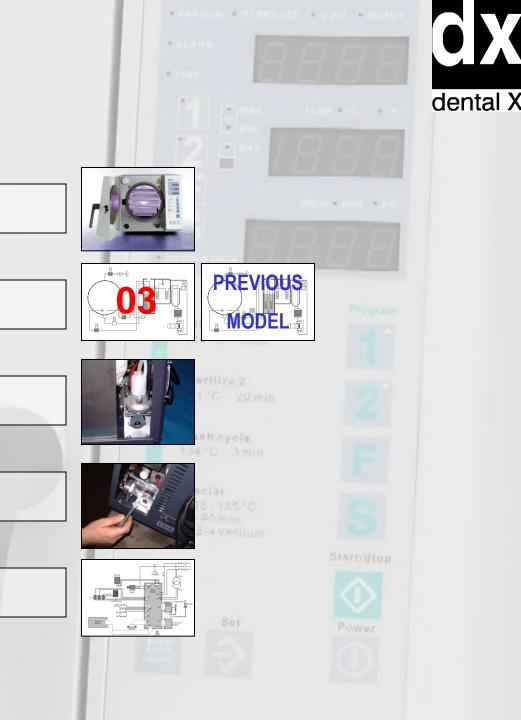


INSTALLATION

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INSTALLATION (2003 mod.)

1.1 BASIC REQUIREMENTS

1. Make sure that the features of the electric plant is according with the requirements indicated on the rear plate, the power supply socket should provide at least 10 A and adequate earth connection..

The manufacturer disclaims any responsibility for damage caused by inadequate or not earth-connected electrical plant.

- 2. The sterilizer should be slightly tilted to facilitate water outflow during the steam draining phase. If necessary adjust through the proper feet.
- 3. To warrant the correct working of the sterilizer it is imperative that the rear and lower panels are not clogged.
- 4. Do not install the unit in extremely moist environments or arranged close to inflammable gas sources.
- 5. The distance from the rear wall should be at least 4 cm.

The sterilizer may be installed recessed, as long as adequate free space around the unit (> 10cm) is guaranteed.

1.2 PRELIMINARY STEPS

- THESE ADJUSTMENTS SHOULD BE CARRIED OUT ONLY BY QUALIFIED SERVICE TECHNICIANS. INCORRECT SETTINGS MIGHT EFFECT THE QUALITY OF STERILIZATION.
- 1. Check that the electric plant meets the unit requirements, plug the power supply cable into an AC socket.
- 2. The sterilizer is delivered without water into the tank; before proceeding it is necessary to fill the tank with demineralized water.

Poor-quality water may lead to the formation of calcareous deposits on the instruments, on the chamber inside walls and on the trays. Read the label carefully before pouring the fluid. Tap water must not be used under any circumstances, not even if conditioned through filters or softeners.

Demineralized water bottles for batteries, supplemented with sulfuric acid, are available on the market. If used for the sterilizer may cause irreversible damage.

Fill completely the main tank.

- 3. Switch-on the sterilizer by the rear power supply switch. This should preferably be kept in "on" position, as in stand-by mode the power consumption is very negligible.
- 4. Take basket and trays out the chamber and close the door.
- 5. Hold down the key $_{\odot}$ and push the key **POWER**; the display will show < SET ALT 100 MT> (100 is the factory-set altitude value).

Modify the value according to the current installation altitude (see next page) by operating on the keys 1 and 2.

Then press the key SET to store the set value and to start the automatic procedure for the first water filling of the idraulic circuit and the chamber itself.

ALTITUDE COMPENSATION

To ensure the correct operation of the sterilizer's pressure transducer the equipment must know the environment data in order to allow the necessary pressure compensation.

The correct altitude value (above sea level) must be set at the first installation and in case the sterilizer is moved at altitude differing from the set value.

The factory-set value is 100 meters. If the actual altitude is between 0 and 200 meters no adjustment is needed. Differences of \pm 100 meters do not affect the correct sterilizer operation.

To ensure the right sterilization verify that the altitude value set during the installation does not differ from over 200 meters from the current one. An incorrect altitude setting may result in a prolonged vacuum cycle and/or false or premature AL8 and AL5 error messages.

SECRET ADJUSTMENTS

From 2001 it is possible to adjust some functions using a secret code. To insert the code use the clock set-up:

Vacuum e scentiliste a diate a

ALTITUDE ADJUSTMENT: set the clock to may 5th, year 55, 5 am; on the display will appear the altitude: adjust it with the program buttons 1 and 2.

STEAM TEMPERATURE ADJUSTMENT: may 5th, year 77, 5 am. It is possible to adjust the value to +/-4°C with a 1/4 of °C.

PRESSURE ADJUSTMENT: may 5th, year 88, 5 am +/- 0,04 bar with 0,0025 bar steps.

MODEL: may 5th, year 66, 5 am. This autoclave is produced with different display for private labels, this adjustment is inserted to set the correct display: use always TIPO 1

CHECK ALWAYS THESE ADJUSTMENT WHEN THE MAIN BOARD IS REPLACED!

WRONG SETUP OF THESE VALUES MAY INVALID THE STERILIZATION CYCLE!

ADDITIONAL FUNCTIONS IN THE 2003 MODEL

- WATER LOAD

it is possible to fill the water line without repeating the installation procedure: in OFF press the second program button together with POWER.

- EEPROM MEMORY PRINTOUT

in OFF, push together the button of the third program and POWER; two column are printed: the first is the address and the second is the value

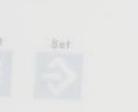
(click HERE to see the conversion table)

- NEED INST RESET

It is possible to force again the autoclave in the NEED INST condition (for example for a shipment after service) pushing, from OFF, the button of the last program together with POWER. THE INSTALLATION DATE WILL BE NOT MODIFIED!

- INSTALLATION DATE READOUT

Pushing SET from OFF condition, it is displayed the installation date and the software version.



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2003 MODEL'S ADDITIONAL FEATURES

- DATALOGGER CONNECTION

selecting language 6 it is possible to record the sterilisation history on a computer

- HIGHER TEMPERATURE READING RESOLUTION

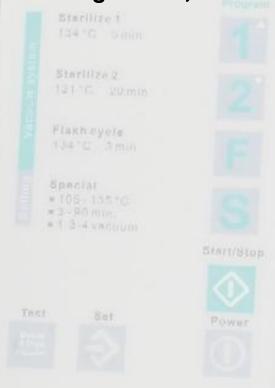
now it is 0,5°C but from 2001 model the microprocessor manage with 0,125°C steps (before was 0,25°C)

- AUTOMATIC MAINTENANCE CYCLE

easier and more efficient

- MAINTENACE COUNTER

no doubt about the <u>customer</u> efficiency



ACLUMENT STREET, A DATE OF

SECRET ADJUSTMENTS ADDED ON THE MODEL 2007

- CALIBRATION: set the clock to may 5th, year 33, 5 am 55 min
- it adjusts the reference of temperature and pressure together in a range of +/- 1°C
- VACUUM LEVEL: may 5th, year 44, 5 am.
- changes the level of the vacuum request in a range of -0 to -0,06 bar

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2007 MODEL'S ADDITIONAL FEATURES

- ELECTRIC DOOR LOCKING SYSTEM

The pneumatic system has been replaced by a piston operated by the microprocessor, the door is normally locked and it is unlocked only if the following conditions are respected:

- . pressure in a range of +/- 0,05 bar
- . preheating phase
- . no alarms

When the unit is not yet installed, the door remains unlocked for 1 hour when powered, to open it again later it is enough to switch if off and on again.

- CONNECTIONS FOR THE PURITY WATER SUPPLY SYSTEM
- NEW QUITER VACUUM PUMP MAINTENANCE FREE
- IMPROVED COOLING SYSTEM





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2011 MODEL'S ADDITIONAL FEATURES

- -New main electronic board:
- eliminated potentiometers, adjustments done by software
- additional inputs and outputs for better management of the door's locking system
- printer's serial port
- faster USB-LOG that can be used together with paper printer
- new service menu, to enter in the setup, instead of the clock adjustment, push together the buttons of the last two cycles; the password is 55
- water dose adjustable
- drying improved and drying time adjustable
- new service software will follow soon
- new gasket door, longer life, better sealing when cold (cannot be used on previous models)
- new water counter with integrated filter, higher precision
- new material for hoses, longer life
- firmware may be upgraded from the service port using USB LOG



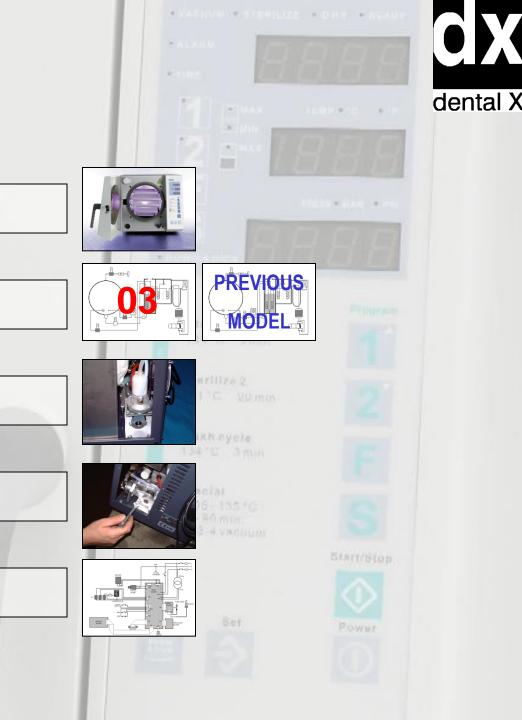


INSTALLATION

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EEF	ROM MAP	HEX	(AD	EC	IMAL	DE		L (CON	IVE	RSIC	DN	
adr.	description	00	0	1	40	64	8	3 0	128		c 0	192	
0	cycle counter Isb	01	1		4 1	65	8	3 1	129		c 1	193	
1	cycle counter	02	2		4 2	66	8	32	130		c 2	194	
2	cycle counter msb	03	3		43	67		33	131		c 3	195	A second second second
3	abort counter lsb	04	4		44	68		3 4	132		c 4	196	
4	abort counter	05	5		4 5	69		3 5	133		c 5	197	
5	abort counter msb	06	6		46	70		86	134		c 6	198	
6	3th alarm	07	7		47	71		37	135	-	c 7	199	
8	2nd alarm 1st alarm	08	8		48 49	72 73		8 8 9	136 137		c 8 c 9	200 201	
9	temperature sp5	0 a	10		4 a	74		3 a	138		ca	201	
a	time sp5	0 b	11		4 b	75		3 b	139		cb	203	
b	program selection	0 c	12		4 c	76		3 c	140		сс	204	
С	temperature unit, language	0 d	13		4 d	77	8	3 d	141	12	c d	205	
d	pressure unit, sp selection	0 e	14		4 e	78	8	8 e	142	1.2.2.0	се	206	
е	BLACK OUT memory	0 f	15		4 f	79		3 f	143		c f	207	
f	CD alarms memory	10	16		50	80	-	90	144		d 0	208	
14	dry time	11	17		51	81		91	145		d 1	209	
15	vent time	12	18		52	82		2	146		d 2	210	
16 17	altitude (*100) temperature offset (0=10 HEX or 16 DEC)	13 14	19 20	_	53 54	83 84) 3) 4	147 148		d 3	211 212	and the second second
17	pressure offset (0=10 HEX or 16 DEC)	15	20		5 5	85	-	9 4	148		d 4 d 5	212	
10	tipo (model selection) L on Loff	16	21	-	56	86		96	149		d 6	213	
19 1a	need cleaning counter	17	22		57	87		97	151		d 7	214	
1b	cleaning counter	18	24		58	88		8	152		d 8	216	
30	installation day	19	25		59	89	-	99	153		d 9	217	
31	installation month	1 a	26		5 a	90		a	154		da	218	
32	installation year	1 b	27		5 b	91	g	b	155		d b	219	Protection
33	pressure peak	1 c	28		5 c	92	9) c	156	Visi	dc	220	
34	steam temperature peak	1 d	29		5 d	93	-	d	157	1141	d d	221	
35	upper temperature peak	1 e	30		5 e	94	-) e	158	0	d e	222	
36	lower temperature peak	 1 f	31		5 f	95) f	159		d f	223	
37	peak cycle lsb	20	32		60	96		10	160		e 0	224	
38 39	peak cycle peak cycle msb	21 22	33 34	1.1	61 62	97 98	-	a 1 a 2	161 162	194	e 1 e 2	225 226	
39 3a	peak cycle temperature set	23	35	100	63	90		12	162	144	e 2	220	
3b	peak cycle vacuum phases	24	36		64	100		4	164		e 4	228	
40	last service day	25	37		65	101		a 5	165		e 5	229	
41	last service month	26	38		66	102	-	a 6	166		e 6	230	
42	last service year	27	39		67	103	a	a 7	167	in the	e 7	231	
43	need service counter msb	28	40		68	104	a	8	168		e 8	232	
44	need service counter lsb	29	41		69	105	a	9	169		e 9	233	
53	serial number lsb	2 a	42		6 a	106	-	aa	170		e a	234	
54	serial number	2 b	43		6 b	107	-	a b	171		e b	235	
55	serial number msb	2 c	44		6 c	108		a c	172	-	ec	236	
56 57	production day production month	 2 d 2 e	45 46		6 d 6 e	109 110		a d a e	173 174	-	e d e e	237 238	
58	production month	2 f	40		6 f	111		a f	175		ef	239	
60	comment	30	48		70	112		0	176		fO	240	
61	comment	31	49		71	113		01	177	1.00	f 1	241	
62	comment	32	50	1	72	114		2	178		f 2	242	and the second sec
63	comment	33	51		73	115	b	3	179		f 3	243	Start/Stop
64	comment	34	52		74	116		4	180		f 4	244	
65	comment	35	53		75	117		5	181		f 5	245	
66	comment	36	54		76	118		6	182		f 6	246	
67	comment	37	55		77	119		7	183		f 7	247	
68	comment	38	56	-	78	120		8	184	1.00	f 8	248	
69 6A	comment	39 3a	57	-	79	121		9	185	5.8	f 9	249	Egwar
6B	comment	3 b	58 59		7 a 7 b	122 123		b b	186 187		fa fb	250 251	
70	comment	3 c	60		7 c	123		b c	188		fc	252	
71	comment	3 d	61		7 d	125		d	189		fd	253	
72	comment	3 e	62		7 e	126		e e	190		fe	254	
73	comment	3 f	63		7 f	127		o f	191		ff	255	
74	comment												
75	comment												
76	comment												

EEPROM MAP EXAMPLE			I MAP EXAMPLE					• VARIANCE	A VARIATION & STREETLER & DATE & BEADY				
ADRESS	VALUE	HEX-DEC CONV.	DESCRIPTION	RESULT		ADRESS VALUE		DESCRIPTION	RESULT				
00	19	25			4 0	12	*	LAST SERVICE DAY					
01	02	2	CY CLE COUNTER	225	41	12 02	*	LAST SERVICE MONTH	12 DECEMBER 2002				
02	00	0			4 2	02	9	LAST SERVICE YEAR NEED SERVICE CYCLES COUNTER	*NOTE: EX-DEC CONVERSION NOT REQUIRED 309				
03	11	17			44	03	3		The second state and second state and				
04	01	1	ABORT COUNTER	117	4 5	FF	255		and the second				
06	00	7			46	FF	255						
07	07	7	LAST ALARMS	777	47	FF FF	255 255						
08	07	7			49	FF	255						
09	79	121	S CYCLE TEMPERATURE	121°C	4 a	FF	255		FRECCE PARAMETER PROF				
0 a 0 b	3C A0	60 160	S CYCLE TIME PROGRAM SELECTION	60 min NOT USEFUL	4 b	FF	255	NOT USED	NOT USEFUL				
0 0	10	160	SETS	NOT USEFUL NOT USEFUL	4 c 4 d	FF FF	255 255		the same party lower limit, such that we want				
0 d	30	48	<u>SEIO</u>		4 e	FF	255		and where where party down of the dama of				
0 e	01	1	BLACK OUT ALARM	DONE	4 f	FF	255		F STOP STATE AND STATE STATE AND A				
0 f	04	4	LAST CD ALARM	CD4	50	FF	255		And a second				
10	FF	255			51 52	FF FF	255 255						
11	FF FF	255 255	NOT USED	NOT USEFUL	53	04	200						
13	FF	255	NOT USED	NOT USEFUL	54	0B	11	SERIAL NUMBER	1104				
14	6		DRY TIME (only in some models)	6 min	55	00	0						
15	4	4	VENT TIME (only in some models)	4 min	56	0F	15						
16	01	1	ALTITUDE IN METERS X100	100 m	57 58	09	9	DATE OF PRODUCTION	15 SEPTEMBER 2001				
17 18	10 10	16 16	TEMPERATURE OFFSET	0 NOTE: 0 IS -4°C, 32 IS +4°C	5 9	FF	255						
19	04	4	PRESSURE OFFSET MODEL AND L on SETUP (only in some models)	0 NOTE: 0 IS -0,04 BAR, 32 IS +0,04 BAR SIRONA L ON	5 a	FF	255						
1 a	31	49	NEED CLEANING COUNTER	THE MESSAGE WILL APEAR AFTER 49 CYCLES	5 b 5 c	FF FF	255 255	NOT USED	NOT USEFUL				
1 b	02	2	CLEANING CYCLE COUNTER	2	5 d	FF	255	NOT USED	NOT USEFUL				
1 c	FF	255			5 e	FF	255		CM (J7)413				
1 d 1 e	FF FF	255 255			5 f	FF	255						
1 f	FF	255			60								
20	FF	255			6 1 6 2			Flaxh cyc	14				
2 1	FF	255			63			194 1 3	man				
22	FF	255			64								
23	FF	255			65								
24 25	FF FF	255 255			6 6 6 7	1	-	5 pacial					
26	FF	255	NOT USED	NOT USEFUL	68			# 105-135	10-				
27	FF	255			69			= 3 - 0.0 min					
28	FF	255			6 a		_	*13-4 vac					
29	FF FF	255			6 b 6 c				THESE FIELDS REQUIRE A SCII CODE TRANSLATION				
2 a 2 b	FF	255 255			6 d			COMMENT OF PRODUCTION	USE THE SERVICE SOFTWARE TO READ IT				
2 c	FF	255			6 e				and the second				
2 d	FF	255			6 f 7 0								
2 e	FF	255			70								
2 f			INSTALLATION DAY		72								
30 31	27 11		INSTALLATION DAY INSTALLATION MONTH	27 NOV EMBER 2002	73			Tast	. And the second second				
32	02		INSTALLATION YEAR	*NOTE: EX-DEC CONVERSION NOT REQUIRED	74			19.0	Power				
33	9A	154	PRESSURE PEAK (absolute press/2 in Kpa)	2,08 bar (((154X2)/100)-1)	75								
34	87	135	STEAM TEMPERATURE PEAK	135°C	77								
35	89	137		137°C	78								
36 37	88 0E		LOWER TEMPERATURE PEAK NUMBER OF THE CYCLE WHEN	136°C	79		-						
38	02	2	THE PEAK HAS HAPPENED	214	7 a 7 b								
39	00	0			7 c	FF	255						
3 a	86	134	TEMPERATURE SET OF THE PEAK CYCLE	134°C	7 d	FF	255	NOT USED	NOT USEFUL				

INSTALLATION

WORKING DIAGRAMS

INTERNAL VIEWS

TROUBLESHOOTING

