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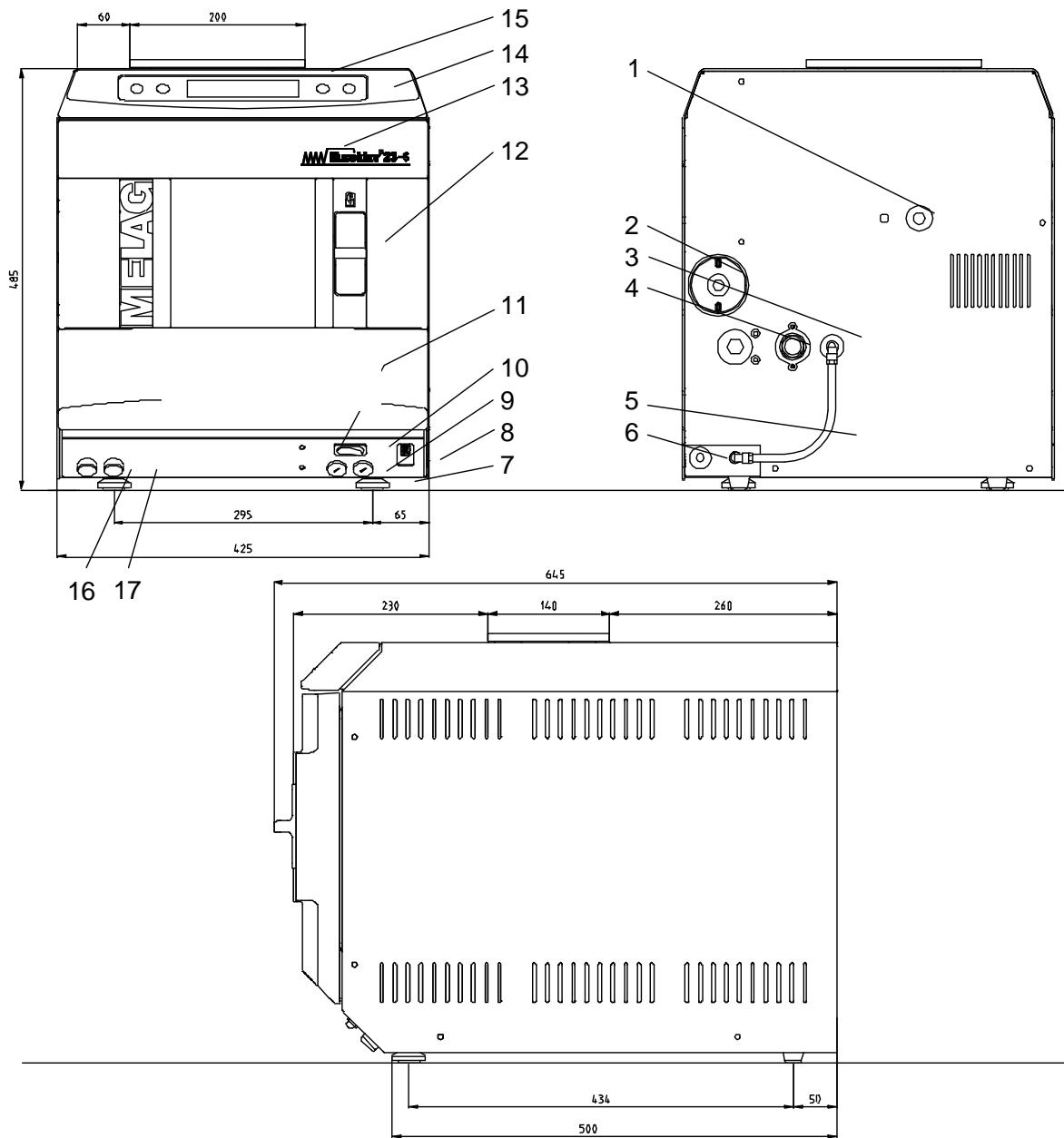
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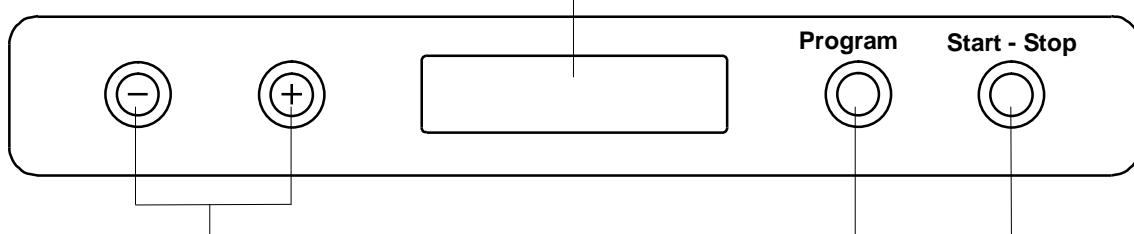


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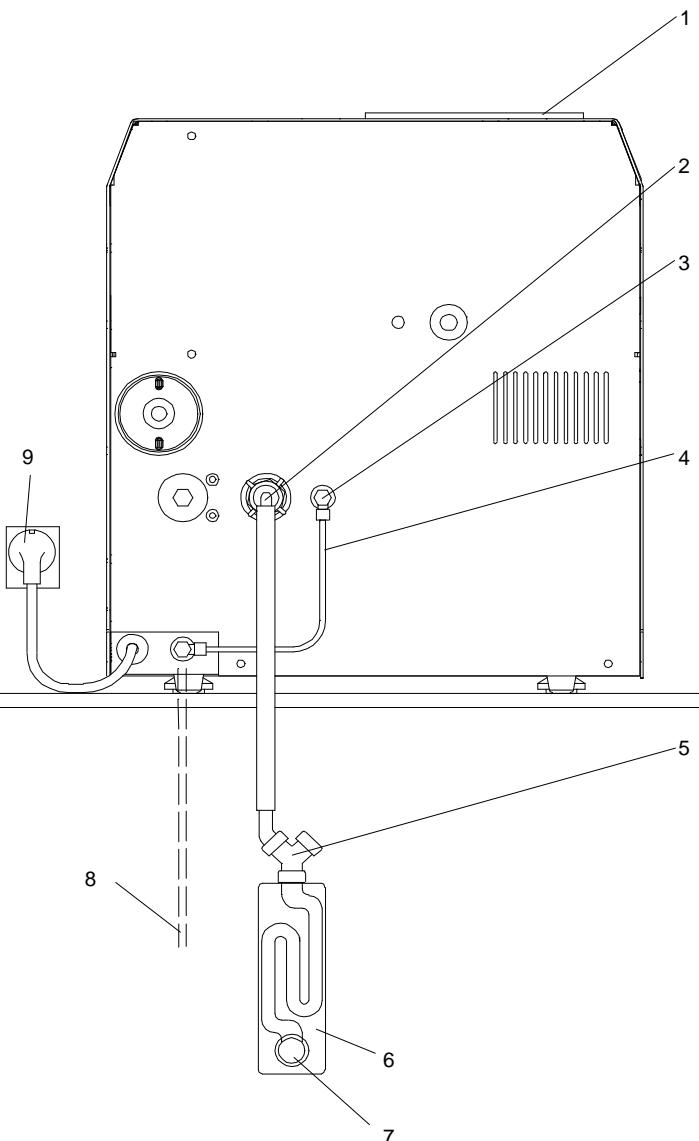
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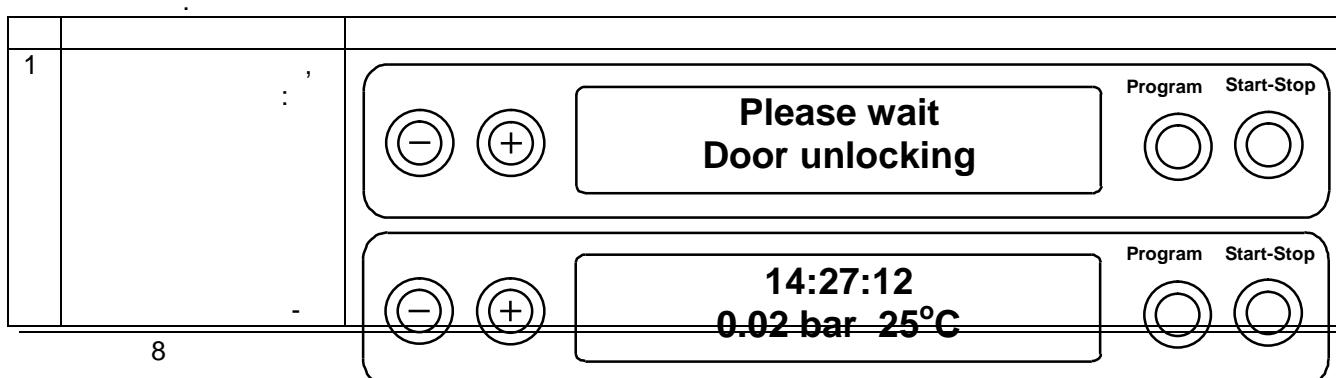
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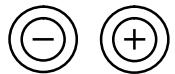
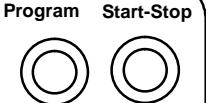
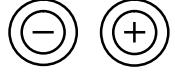
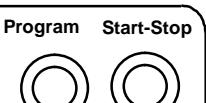
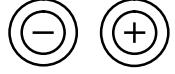
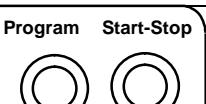
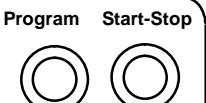
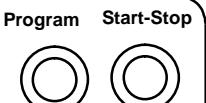
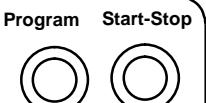
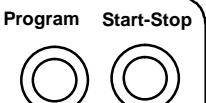
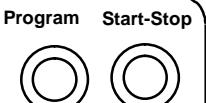
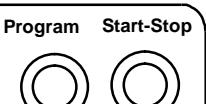
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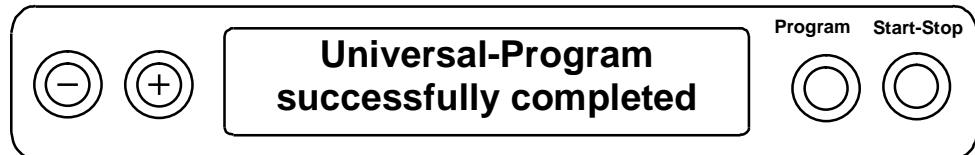
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		 <div style="border: 1px solid black; padding: 5px; text-align: center;"> Door Closed </div> 
3	Program , Vacuum test	 <div style="border: 1px solid black; padding: 5px; text-align: center;"> Vacuum test </div> 
4	Start-Stop	 <div style="border: 1px solid black; padding: 5px; text-align: center;"> Vacu test: Start Pressure 980mbar </div> 
5		 <div style="border: 1px solid black; padding: 5px; text-align: center;"> Vacu test: 00:00 Pres.: 240mbar </div> 
6	(5), . (7 . 52)	 <div style="border: 1px solid black; padding: 5px; text-align: center;"> Vacu test: 07:52 Pres.: 243mbar </div> 
7	(10), (), . "Please wait Door unlocking"	 <div style="border: 1px solid black; padding: 5px; text-align: center;"> Ventilate -0.56 bar 25°C </div>   <div style="border: 1px solid black; padding: 5px; text-align: center;"> Leak rate 0.3mbar </div>   <div style="border: 1px solid black; padding: 5px; text-align: center;"> Open door please </div> 
8		 <div style="border: 1px solid black; padding: 5px; text-align: center;"> Vacuum test </div> 

) "Test unsuccessful" (). , , (7.3.

"Universal Program, 134°C wrapped"
"Start/Stop%"

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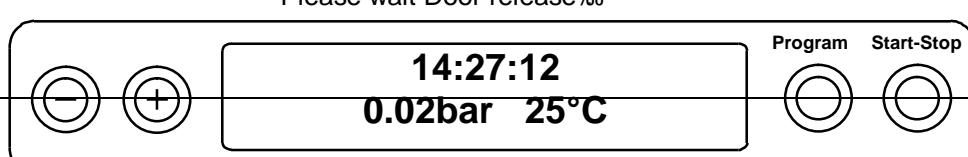
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"Please wait Door release%

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Euroklav®23V-S 2 :
 "A" (MELAG-Art.-No.: 40221) 6 ,
 "B" (MELAG-Art.-No.: 40224) 4 .
 MELAG (15K,M,G; 17 K,M,G;
 17R; 23R,M,G 28 M, 28G).

MELAG (15K,M,G; 17 K,M,G;

17R; 23R,M,G 28 M, 28G).

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)
" ("Universal Program")
" ("Gentle Program").
" ("Program selection" ("

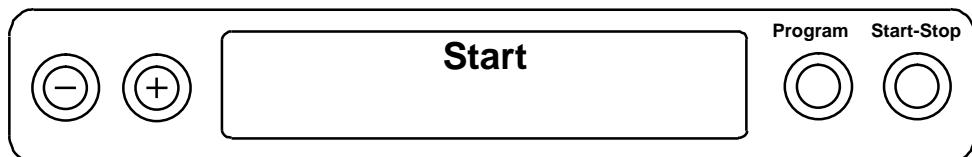
/	/
3,5 (Hollow A) /)	134°C, 2 (-), - Universal Program 134°C wrapped Program
134°C, 2 (Hollow A,) , - 3,5 - Quick Program 134°C unwrapped Program	
121°C, 1 (Hollow A), , - 15 (- /) , -)). - Gentle Program 121°C wrapped Program	

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<p>Here to upgrade to United Pages and Expanded Features</p> <p>).</p>	<p>Prion program 134°C wrapped 20D</p> <p>Program</p>
<p>Creutzfeld-Jacob BSE.</p> <p>MELAsteam Cleaning 136°C, 2.3 bar, 60</p>	
<p>MELAsteam® ().</p> <p>MELAsteam®</p>	<p>MELA stream Cleaning 2.3 bar 60°</p> <p>Program</p>
<p>134°C, 2</p> <p>3,5 ().</p>	<p>Bowie & Dick Test 134°C 2.2bar 3.5min</p> <p>Program</p>
<p>,</p>	<p>Vacuum test</p> <p>Program</p>
<p>()</p>	<p>15:31:33 0.02bar 22°C</p> <p>Program</p>

4.6

"Start-Stop",



"Warning: Only unwrapped instruments"

(" : "Start").

4.7

1. Pre-vacuum (, , , ,)	
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		1. Fractionation 0.69 bar 115°C	Program	Start-Stop
3.		Heat up 1.80 bar 117°C	Program	Start-Stop
4.		Sterilization 2.18 bar 135°C	Program	Start-Stop
		Sterilization 2 min 12 sec more	Program	Start-Stop
5.		Pressure release 0.85 bar 96°C	Program	Start-Stop
6.	1- (). ().	Current drying Sin. 1' 0.9bar 85°C	Program	Start-Stop
		Immediate removal: Press 'Stop'	Program	Start-Stop
7.	2- (). " "Quick Program", ..	Vacuum-drying Sin. 2' 0.12bar 60°C	Program	Start-Stop
		Immediate removal: Press 'Stop'	Program	Start-Stop



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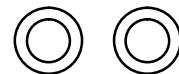
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"yes"

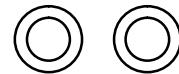
**Quick program
Run successfully**

Program Start-Stop



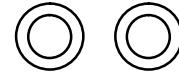
**Please wait
Door unlocking**

Program Start-Stop



**Open door
please**

Program Start-Stop



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MELAG Euroklav 23V-S						
Program	Press.	Temp.	Time			
	bar	°C	min			
Start	0.01	58.7	00:00			
1. Fractionation						
Steam entry	1.00	81.0	01:10			
Press. release	0.19	84.0	01:29			
2. Fractionation						
Steam entry	1.01	106.2	02:31			
Press. release	0.19	94.8	03:01			
3. Fractionation						
Steam entry	1.00	114.8	04:07			
Press. release	0.19	99.6	04:48			
4. Fractionation						
Steam entry	1.01	118.1	05:55			
Press. release	0.19	99.5	06:42			
5. Fractionation						
Steam entry	1.00	118.7	07:48			
Press. release	0.20	98.2	08:40			
6. Fractionation						
Steam entry	1.00	118.2	09:49			
Press. release	0.19	97.1	10:45			
Heat up	2.04	132.5	13:15			
Steriliz.begin	2.04	132.5	13:15			
Steriliz.end	2.17	135.6	16:45			
Pressure release	0.50	113.2	17:52			
Current-drying						
Drying begin	0.50	113.2	17:52			
Drying current	0.40	100.2	18:23			
Drying pumping	1.12	102.7	18:50			
Drying end	1.11	109.3	37:44			
End	0.54	106.7	37:54			
PROGRAM PROPERLY EXECUTED!						
Temperature	: 135.5 +0.2 /-0.4 °C					
Pressure	: 2.17 +0.01/-0.01 bar					
Sterilize time	: 3 min 30 s					
Time of day	: 08:59:37 (End)					
=====						
84 0000815 3.16 1.13						

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4.12.1

"Start-Stop"

1.	<p>"Start-Stop".</p> <p>"Start-Stop" 5</p>
2.	<p>Program Start-Stop</p> <p>Terminate program? Press 'Stop'</p> <p>Program Start-Stop</p> <p>Program terminated</p> <p>Program Start-Stop</p> <p>Pressure release 1.52 bar 112°C</p>

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		<p>Terminated 0.02 bar 88°C</p>	Program	Start-Stop
		<p>To undo termination Press ' - '</p>	Program	Start-Stop
3.	" - ". "Please wait, Door unlocking" (" - "),	<p>Gentle Program 121°C wrapped</p>	Program	Start-Stop

4.12.2

"Universal Program" ("Quick Program" ("")) "Gentle Program" ("").

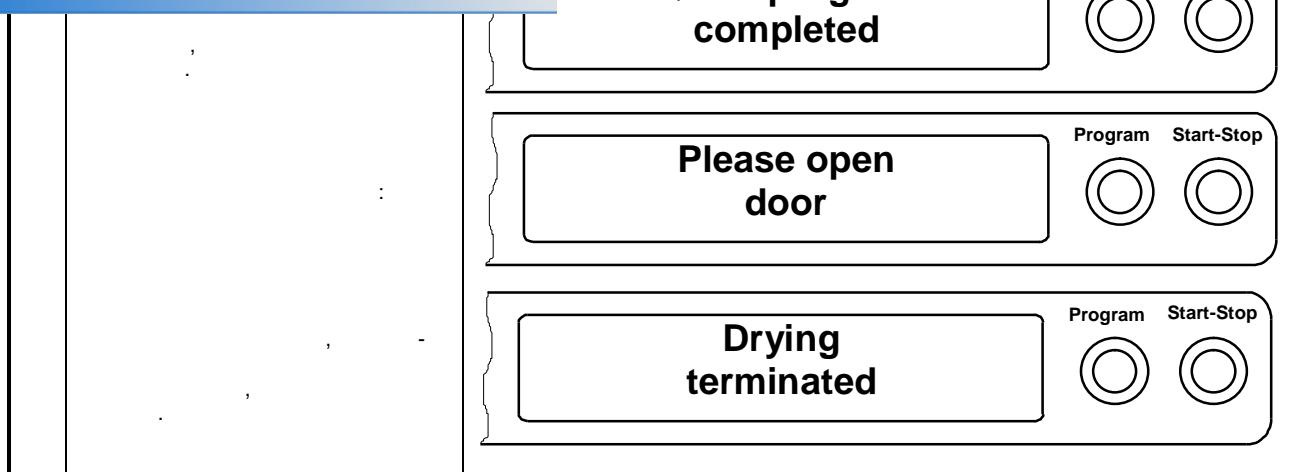
		<p>Pulsing drying 3' E0.9bar 68°C</p>	Program	Start-Stop
		<p>To remove now Press 'Stop'</p>	Program	Start-Stop
2.	"Start-Stop". "Start-Stop" 5	<p>To terminate Press 'Stop'</p>	Program	Start-Stop
3.	"Start-Stop"	<p>Drying terminated</p>	Program	Start-Stop



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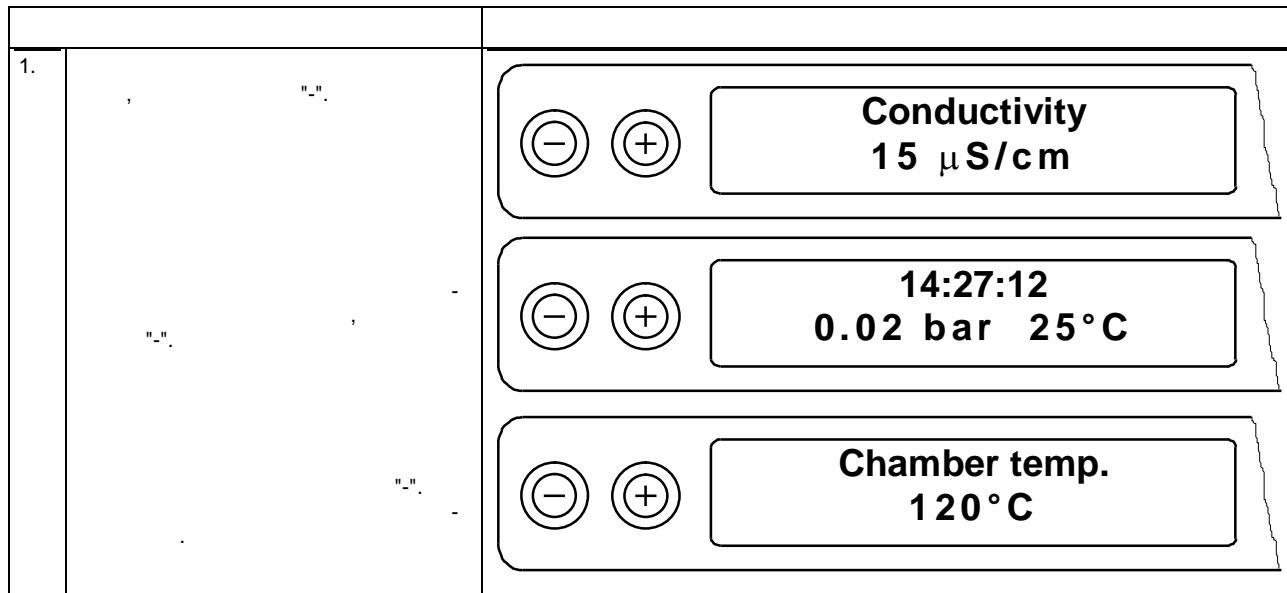
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(40), "Immed. print-out?
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6.3.1.1.1

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6.3.1.1.2

1.		<div style="display: flex; align-items: center; justify-content: space-between;"> <div style="flex: 1; text-align: center;"> 14:27:12 0.02 bar 25°C </div> <div style="flex: 1; text-align: right;"> Program Start-Stop </div> </div>
2.	"+" "-" "Function", "Print".	<div style="display: flex; align-items: center; justify-content: space-between;"> <div style="flex: 1; text-align: center;"> Function Print </div> <div style="flex: 1; text-align: right;"> Program Start-Stop </div> </div>
3.	"Program", "Print", "Data transfer"	<div style="display: flex; align-items: center; justify-content: space-between;"> <div style="flex: 1; text-align: center;"> Print Data transfer </div> <div style="flex: 1; text-align: right;"> Program Start-Stop </div> </div>
4.	"Pro- gram", "Data transfer", "No printer"	<div style="display: flex; align-items: center; justify-content: space-between;"> <div style="flex: 1; text-align: center;"> Data printer No printer </div> <div style="flex: 1; text-align: right;"> Program Start-Stop </div> </div>
5.	"+" ("-") "External printer".	<div style="display: flex; align-items: center; justify-content: space-between;"> <div style="flex: 1; text-align: center;"> Data transfer External printer </div> <div style="flex: 1; text-align: right;"> Program Start-Stop </div> </div>
6.	"Program". ,"Print".	<div style="display: flex; align-items: center; justify-content: space-between;"> <div style="flex: 1; text-align: center;"> Print Data transfer </div> <div style="flex: 1; text-align: right;"> Program Start-Stop </div> </div>
7.	"Start- Stop", "Function".	<div style="display: flex; align-items: center; justify-content: space-between;"> <div style="flex: 1; text-align: center;"> Function Print </div> <div style="flex: 1; text-align: right;"> Program Start-Stop </div> </div>
8.	"Start- Stop". "Function"	<div style="display: flex; align-items: center; justify-content: space-between;"> <div style="flex: 1; text-align: center;"> 14:27:30 0.02 bar 25°C </div> <div style="flex: 1; text-align: right;"> Program Start-Stop </div> </div>

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"_" "External PC" (" 6.3.1.1.2), "External PC" (" 5 " +").

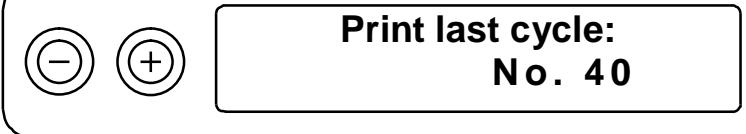
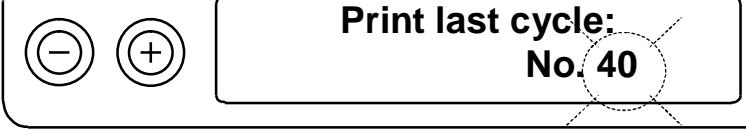
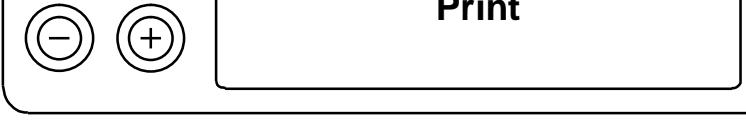
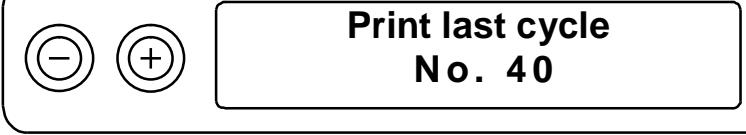
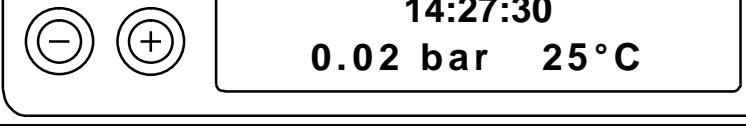
6.3.1.3

5, "No printer" (" 6.3.1.1.2. " + " - ") "No printer".

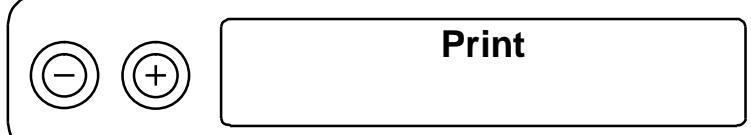
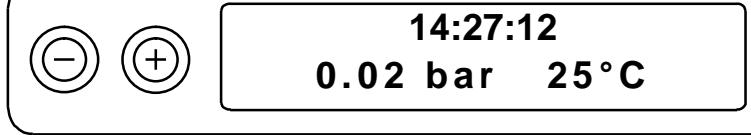
6.3.2 Immed. print-out? Yes/No (? /)

1.	"+" "-". "Function", "Print".	<div style="text-align: center;"> - + <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">Function Print</div> </div>	Program Start-Stop
2.	"Program", "Print", "Data transfer"	<div style="text-align: center;"> - + <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">Print Data transfer</div> </div>	Program Start-Stop
3.	"+", "Immed. print-out?" -, "No"	<div style="text-align: center;"> - + <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">Immed. print-out? No</div> </div>	Program Start-Stop
4.	"Yes" "No" "Program". "Program", "Yes".	<div style="text-align: center;"> - + <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">Immed. print-out? Yes</div> </div>	Program Start-Stop
5.	"Start- Stop". "Function", "Print".	<div style="text-align: center;"> - + <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">Function Print</div> </div>	Program Start-Stop
6.	"Start- Stop". "Function"	<div style="text-align: center;"> - + <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">14:27:30 0.02 bar 25°C</div> </div>	Program Start-Stop

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1.	"+" "-". "Function", "Print".	 <p>Function Print</p> <p>(-)</p> <p>(+)</p>
2.	"Program", "Print", "Data transfer"	 <p>Print Data transfer</p> <p>(-)</p> <p>(+)</p>
3.	"+" ("-") , "Print" last cycle".	 <p>Print last cycle: No. 40</p> <p>(-)</p> <p>(+)</p>
4.	"Program" .	 <p>Print last cycle: No. 40</p> <p>(-)</p> <p>(+)</p>
5.	"+"	 <p>Print cycle No. 25</p> <p>(-)</p> <p>(+)</p>
6.	"Program" ("Start-Stop" "Function")	 <p>Print</p> <p>(-)</p> <p>(+)</p>
7.	, 4 0	 <p>Print last cycle No. 40</p> <p>(-)</p> <p>(+)</p>
8.	... "Start-Stop" "Function".	 <p>Function Print</p> <p>(-)</p> <p>(+)</p>
9.	Stop" "Start-	 <p>14:27:30 0.02 bar 25°C</p> <p>(-)</p> <p>(+)</p>

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1.	"Function", "Print". "+" "-".	 <p>Function Print</p>
2.	"Program", "Print", "Data transfer"	 <p>Print Data transfer</p>
3.	"+" ("-") , "Print all cycles".	 <p>Print all cycles</p>
4.	(40!) "Program". "Function" "Start-Stop" ().	 <p>Print</p>
5.	,	 <p>Print stored cycles</p>
6.	"Start- Stop" "Function"...	 <p>Function Print</p>
7.	... "Start-Stop"	 <p>14:27:12 0.02 bar 25°C</p>

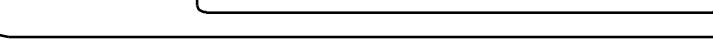


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1.	"+" "-" "Function", "Print".	
2.	"Program", "Print", "Data transfer"	
3.	"+" ("-") , - , ..	
4.	"Start-Stop" "Function".	
5.	"Start-Stop" - .	

6.3.6

") "Immed. print-out? No" (. 7.3) "Printer memory full" ("

1.	"+" "-" "Function", "Print".	
2.	"Program", "Print", "Data transfer"	
3.	"+" ("-") - "Delete all cycles".	

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4.	"Program" ("Stop").	<input type="button" value="-"/> <input type="button" value="+"/> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> Allocated : 0 open : 40 </div>	<input type="button" value="Program"/> <input type="button" value="Start-Stop"/>
5.	"Start-Stop" "Function" ...	<input type="button" value="-"/> <input type="button" value="+"/> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> Function Print </div>	<input type="button" value="Program"/> <input type="button" value="Start-Stop"/>
6.	"Start-Stop"	<input type="button" value="-"/> <input type="button" value="+"/> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> 14:27:12 -0.02 bar 25°C </div>	<input type="button" value="Program"/> <input type="button" value="Start-Stop"/>

6.3.7

:

1.	"+" "-". "Function", "Print".	<input type="button" value="-"/> <input type="button" value="+"/> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> Function Print </div>	<input type="button" value="Program"/> <input type="button" value="Start-Stop"/>
2.	"Program", "Print", "Data transfer"	<input type="button" value="-"/> <input type="button" value="+"/> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> Print Data transfer </div>	<input type="button" value="Program"/> <input type="button" value="Start-Stop"/>
3.	"+" ("-") - "Test print-out"	<input type="button" value="-"/> <input type="button" value="+"/> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> Test print-out </div>	<input type="button" value="Program"/> <input type="button" value="Start-Stop"/>
4.	"Program" ("Start-Stop")	<input type="button" value="-"/> <input type="button" value="+"/> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> Print-out </div>	<input type="button" value="Program"/> <input type="button" value="Start-Stop"/>
5.	"Start-Stop" "Function" ...	<input type="button" value="-"/> <input type="button" value="+"/> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> Function Print </div>	<input type="button" value="Program"/> <input type="button" value="Start-Stop"/>

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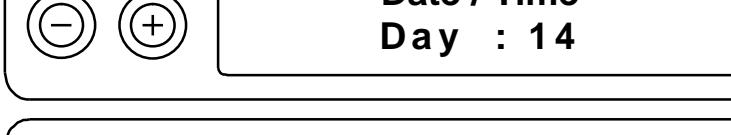
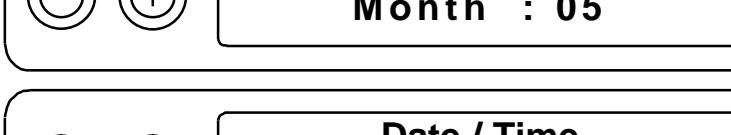
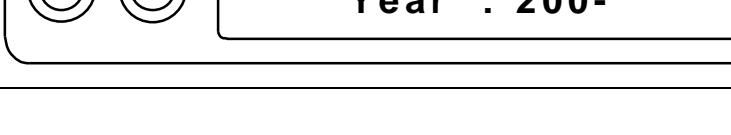


14:27:12
-0.02 bar 25°C

Program Start-Stop

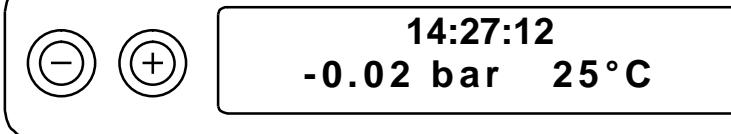
6.4

(., /)

1.	"+" "-". "Function", "Print".	 <p>Function Print</p>
2.	"+" ("-") "Date/Time".	 <p>Function Date / Time</p>
3.	"Program", (24- (,17.00) -)	 <p>Date / Time Hour : 17</p>
4.	"+" ("-") : :	 <p>Date / Time Minutes : 23</p>
		 <p>Date / Time Seconds : 13</p>
		 <p>Date / Time Day : 14</p>
		 <p>Date / Time Month : 05</p>
		 <p>Date / Time Year : 200-</p>

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6.	"+" "-", ;	
7.	"Program", ; - - 4	
8.	„Start- Stop“ „Function“	
9.	„Start-Stop“	

6.5

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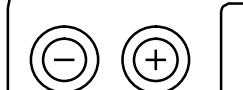
1.	"+" "-", "Function", "Print".	
2.	"+" ("-") "autom. preheating".	

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	"Preheating Yes".		Preheating Yes	Program	Start-Stop
4.	"Program" "Yes/No", "No"		Preheating No	Program	Start-Stop
5.	"Start-Stop", "Function",		Function autom. preheating	Program	Start-Stop
6.	"Start-Stop"		14:27:12 -0.02 bar 25°C	Program	Start-Stop

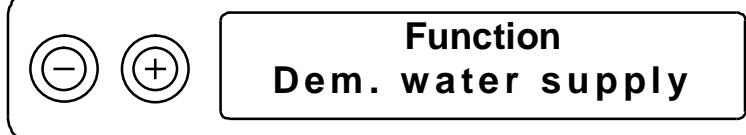
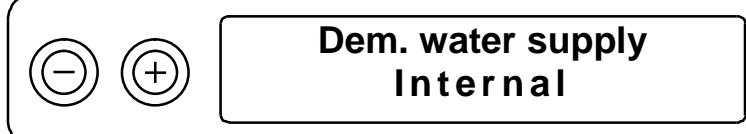
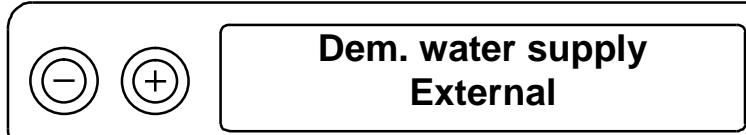
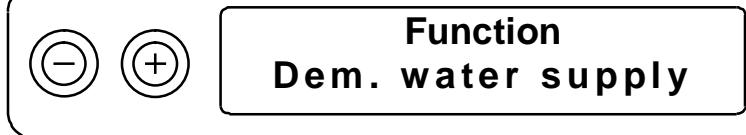
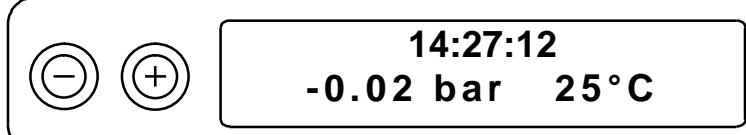
6.6

Euroklav®23V-S

1.	"+" "-". "Function", "Print".		Function Print	Program	Start-Stop
2.	"+" (" ₋ ") "Load count".		Function Load count	Program	Start-Stop
3.	"Program", ,"." ,		Load count 367	Program	Start-Stop
4.	"Start-Stop" "Function",		Function Load count	Program	Start-Stop
5.	"Start-Stop"		14:27:12 -0.02 bar 25°C	Program	Start-Stop

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1.	"+" "-". "Function", "Print".	
2.	"+" ("-". ") "Dem. water supply".	
3.	"Program", "internal", ,	
4.	"Program%" "internal" "external" (" " " " ").	
5.	,	
6.	"Start-Stop"	

6.8

Euroklav®23V-S

(, 500).

1.	"+" "-". "Function", "Print".	

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Here to upgrade to United Pages and Expanded Features		Function Water system		Program	Start-Stop
	system'.				
3.	"Program", "One way%"		Water system One way	Program	Start-Stop
4.	"Program%" "One way" (" ") "Closed loop" (" ")		Water system Closed loop	Program	Start-Stop
5.	"Start-Stop%" "Function" ö		Function Water system	Program	Start-Stop
6.	"Start-Stop"		14:27:12 -0.02 bar 25 °C	Program	Start-Stop

6.9

"Additional drying" ("

"Automatic preheating" ("").

-

7

7.1

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MELAG.

7.2

7.2.1

(. . . . 4.1.2).

9)

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, , (MELAG-Art. No. 57590).

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7.2.2

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2.3).

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7.2.3

- 1. , , ,
- 2. , , ,
- 3. , , (. .) , (. .), ,
- 4. , (. . 4.2).
- 5. "Additional heating" (. . 6.5).
- 6. , , (. . 6.2).

7.3

Warning Door open	/
No start possible	<ul style="list-style-type: none"> ■ "Door closed" " (. .)!
Acknowledge with button " - "	



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*Your complimentary
use period has ended.
Thank you for using
PDF Complete.*

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Euroklav® 23V-S

Refill demin./dist. water

**No start
possible**

Acknowledge with button" - "

Warning no feed water

Check supply of demin./dist. water

No start possible

Acknowledge with button " - "

MELAdem® 47:

MELAdem®37:

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Warning!

**Wastewater tank
Full**

**No start
possible**

**Acknowledge
with button " - "**

**Water quality
Poor**

**Exchange
module/cartridge**

- / () -
- ,
- :
- . 5), , (-
- ,
- ,
- ,
- "Start":
- / -
- ,
- / -
- MELAdem®47 .
- MELAdem®37 .
- , / -

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<p>Water quality Bad</p>	<p>/</p> <p>"Water quality poor".</p>
<p>No start possible</p>	
<p>Acknowledge with button " - "</p>	
<p>WARNING!</p>	
<p>Exchange Sterile filter</p>	<p>(MELAG Art. No.: 20160).</p>
<p>Acknowledge with button " - "</p>	
<p>Printer is not ready</p>	<p>20</p> <ul style="list-style-type: none"> • "Data transfer" (" ") • "No printer" (" ") (6.3.1.3) • MELAprint 40 'power on' • "Offline" ("SEL" -). "online" (MELAprint 40: "SEL").
<p>Printer memory full</p>	<p>(40), "Print" "Immed. print-out? No" (? ").</p> <p>"Start / Stop"</p> <ul style="list-style-type: none"> • " / Stop" "Start" (6.3.1.3) • "Immed. print-out? Yes" (. 6.3.6), • (. 6.3.4). <p>Data transfer ("No printer" (" ") (. 6.3.1.3).</p>

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Please service

	/	"Please service"
		"Start Stop",
1.		"Start / Stop"
2.		

7.4

"Error",
(
)
,

), "Ventilation" (, "End" (). "Pressure release" (+), "Terminate End " () "Quit with "-" " " (,
,

(),
,

"Immed. print-out? Yes" (?)
"Load
not sterile" (").
:

	/	,
Malfunction 1: Vacuum system	,	:
	■ (. 2.3).	,
	■ , ().	"Vacuum
	■ , test".	,
Malfunction 2: Steam generator	:	,
	■	,
	■	,



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Preheating	"Automatic preheating No" (" ") (. . . 6.5).
Malfunction 22: Overheating	▪
Malfunction 23: Current	• , ▪
Malfunction 26: A/D-Converting	▪
Malfunction 27: Temp. sens. def 1,2	▪
Malfunction 29: Battery RAM	00.00 EEPROM. ▪ (. . . 6.4)
Malfunction 32: Power loss	▪
Sterilise sterile filter	▪ ▪
Malfunction 33: Pressure drop	4.
Malfunction 34: Sterilization TU	▪ ▪
Malfunction 35: Sterilization TO	▪

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Sterilization PO	
Malfunction 37: Sterilization PO	
Malfunction 38: Sterilization TD	5.
Malfunction 41: Flow drying	• • • •
Malfunction 42: Drying press.-pump	• • •
Malfunction 43: Drying Vac.-pump	• •

8

8.1

MELAG E

Euroklav®23V-S,

UVV/VBG 103

MELAG



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8.2

8-3

831

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8.3.2

Euroklav 23V-S

CEN-

EN 285,

VDE 510 (
EN 285.

VDF 510

(<5 >7)

EN 285

-	≤ 10 /
, SiO_2	≤ 1 /
	≤ 0.2 /
	≤ 0.005 /
	≤ 0.05 /

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		/
		/
		/
20°C	≤ 0.5	
pH ()	≤ 15 µ	/ * 5 - 7
	,	,
(Σ)	≤ 0.02	/
	,	,
	,	,

*) µ / = -

8.4

8.4.1

"End" ("").

8.4.2

DIN 58 946 8 3.2

6

8.4.3

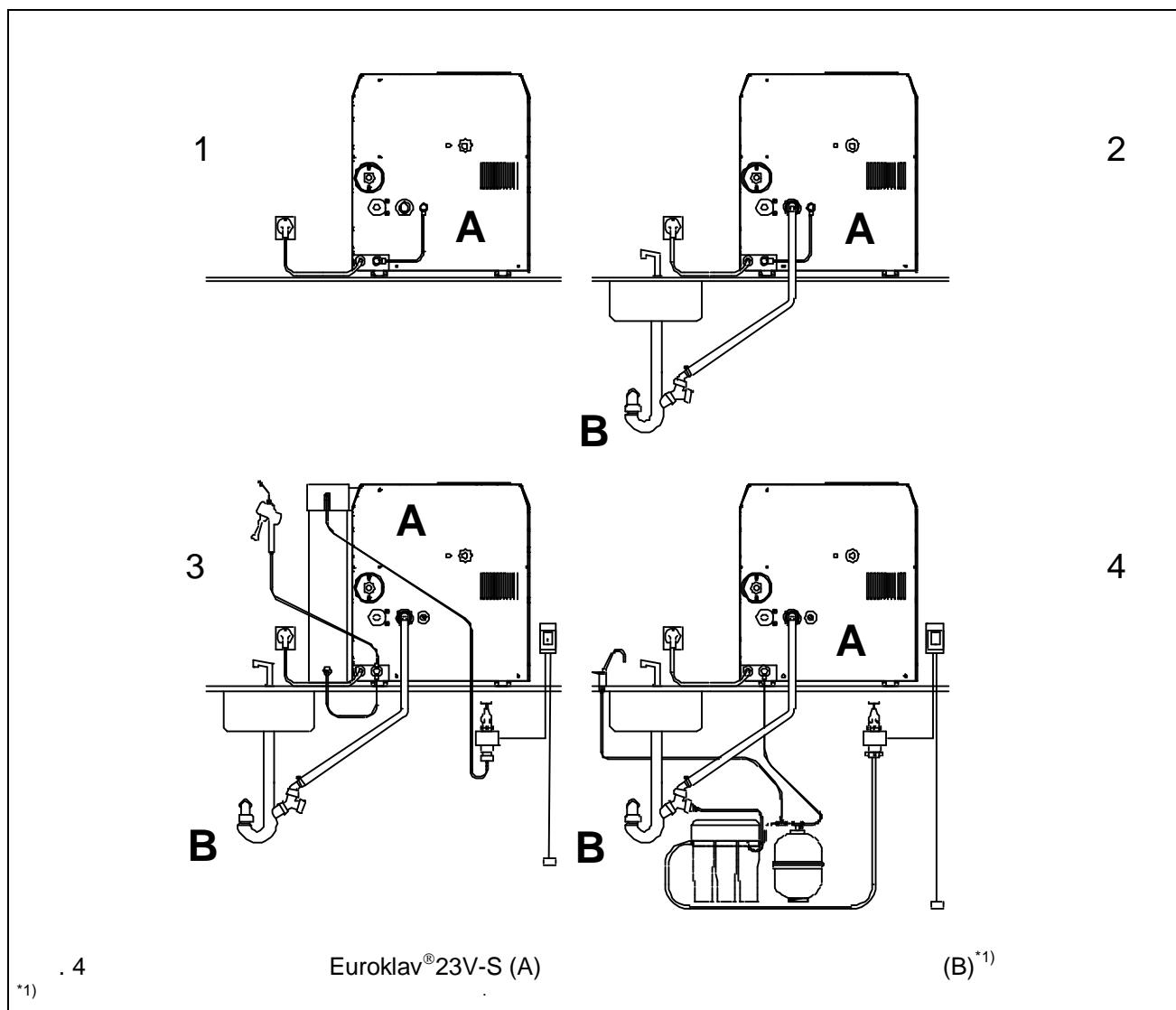
MELAG

Euroklav®23V-S

1000

MELAG.

9.1



1
Euroklav® 23V-S (),

2
Euroklav® 23V-S ()

3
Euroklav® 23V-S ()
MELAdem® 37 MELAjet®

4
Euroklav®23V-S ()
MELAdem®47
()
MELAdem®47

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9.2.1

/

	-	43	
		22	
		4	
		1,1	
:		"B" - 4 MELAG. " " - 6 MELAG.	4 3
		MELAG: 28MG, 23R, M, G, 15R, M, G, 17K, M, G, R.	.

9.2.2

/

	230	AC, 10.4 A, 50...60	
	3000	;	16 A,
J	.	VDE 0510	30 A

9.2.3

/

9.2.3.1

/

		():	-
	/ -	/ -	
" (134°C, 2)"	13 .	17 .	12-15 .
" (134°C, 2)"	20 .	22 .	22-26 .
" (121°C, 1)"	32 .	35 .	27-30 .
"Prion (134°C, 2)"	36 .	39 .	22-26 .

9.2.3.2

/

" (134°C)	0.14 * (= 3,5 Pf ¹⁾)
"	0.22 * (= 5,5 Pf)
+	0.33 * (= 8.3 Pf) " ", 1.3 * (= 32.5 Pf) " ", ,
/	450 (= 9 Pf ²⁾) " " 600 (= 12 pf) " " + 650 (= 13 pf) " "

1)

DM 0.25 /

-

2)

DM 0.20

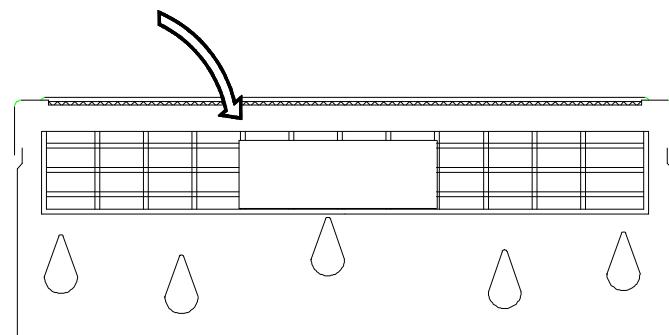
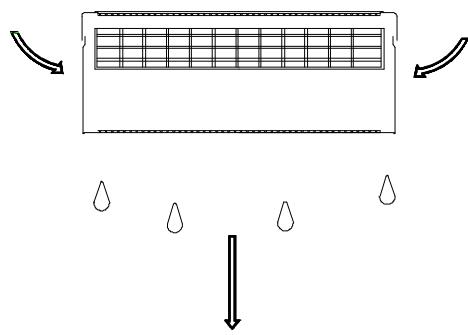
MELAdest 65

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(. 6.2, 6.5)

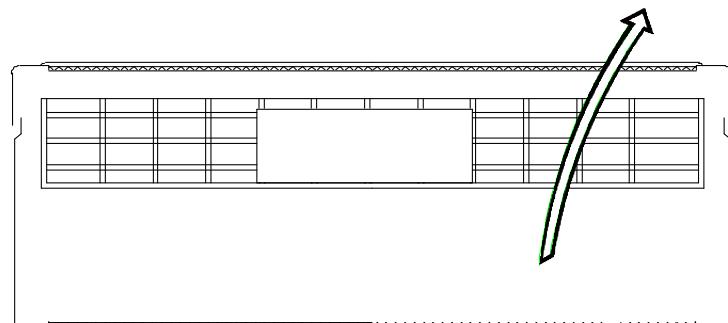
(.).

9.3.1

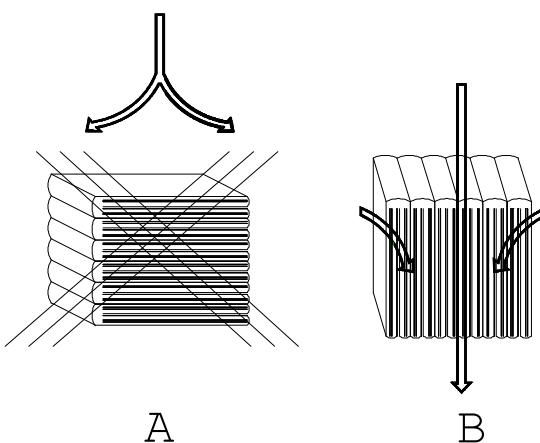


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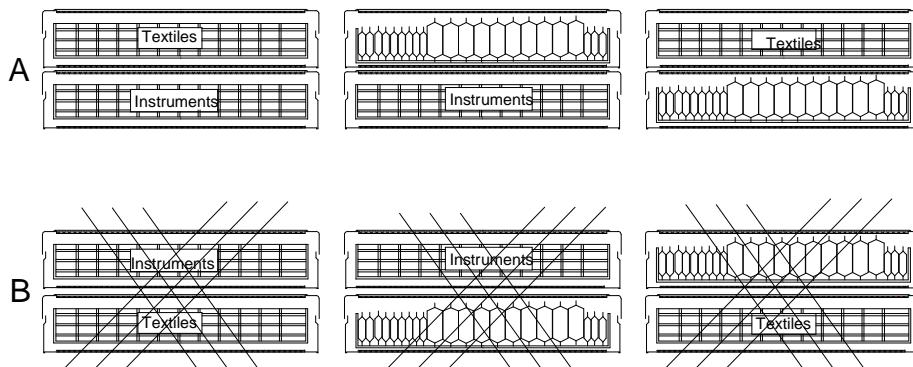
9.3.2



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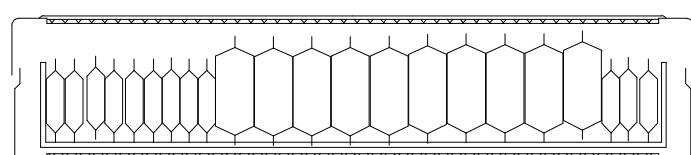
9.3.4

- -
 -
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- (
-).

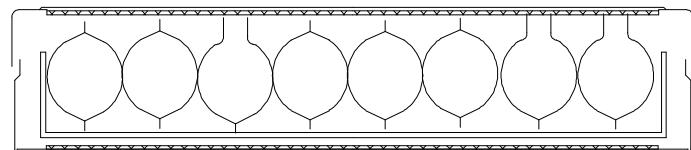


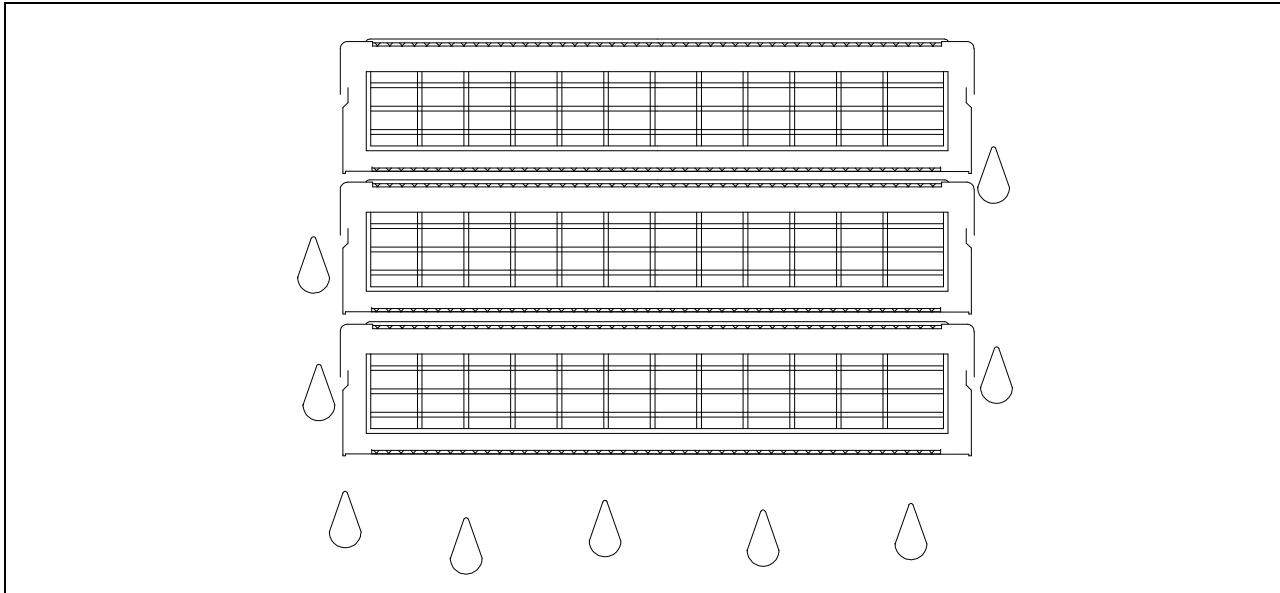
9.3.5

A



B





9.3.7

DIN 58953 7 7

"... 30%o

9.3.8

- ()
- "Additional drying" (" ")
- () MELAG).