

Part 1: Technical guide - Technical documentation - Spare parts / Part 2: Settings and intervention procedures







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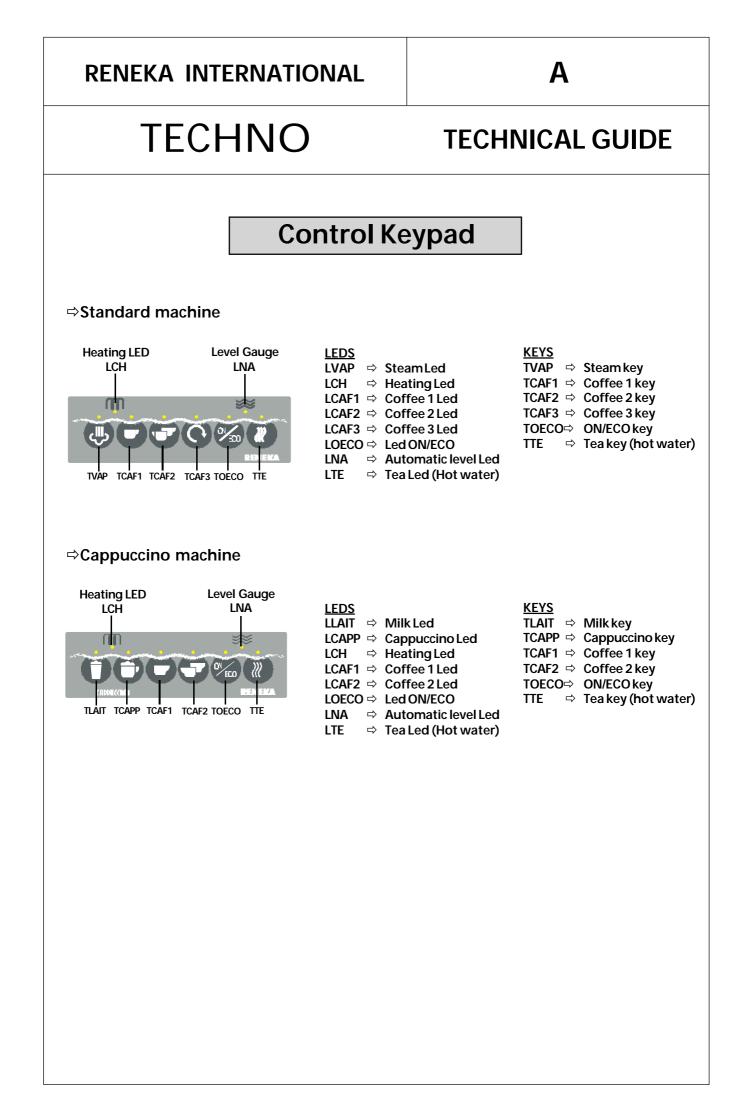
PART 1

TECHNO

SUMMARY

TECHNICAL GUIDE

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TECHNO

TECHNICAL GUIDE

PROGRAM FUNCTION

TECHNO is equipped with a programming system offering several adjustment, dosing and regeneration possibilities.

<u>4 programs</u> Volume adjustment Coffee boiler temperature adjustment Hot water / steam boiler temperature adjustment Regeneration signal adjustment

Activating the program mode

 \Rightarrow Press the \bigotimes key until the LED of this key blinks (about 8 seconds).

① VOLUME ADJUSTMENT PROGRAM (Refer to the apendix B – Programming).

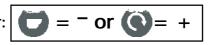
2<u>PROGRAM FOR COFFEE BOILER TEMPERATURE ADJUSTMENT</u>

 \Rightarrow By pressing the \bigotimes key for a second time, the 2nd program may be accessed.

Coffee boiler temperature adjustment:

The LEDs on the keypad indicate the temperature at which the boiler is presently set (factory setting: 92°C). To increase or decrease this set temperature, within a range between 86°C and 98°C:

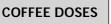
⇒Press the following keys one after the other:



See the table for the correspondence between glowing LEDs / temperature on the next page.

TECHNO

Standard Machine





Prepare the appropriate filter-holder with its dose of coffee for the key to be programmed. Key TCAF1-1 dose,

Key TCAF2 - 2 doses,

Key TCAF3 - volume of your choice

Press the TOECO key for 10 seconds to enter into the programming mode. This mode is indicated by the blinking of the LED LOECO.

You have 10 seconds to do the programming.

- Start the cycle by pressing the key to be programmed. While programming is underway, the LED selected is on. Once the volume of your choice is reached, push the activated key to store your selection.
- Repeat the above operations for other keys. Wait for 10 seconds to come back automatically to the normal working mode.



Place a cup under the hot water outlet,

Press the TOECO key for 10 seconds. The programming mode is indicated by the blinking LOECO LED. You have 10 seconds to do the programming.

⇔Press the hot water key to start the cycle.

Press it once again to stop after, obtaining the required quantity of hot water. While storing, the LED chosen is on. Wait for 10 seconds to come back automatically to the normal working mode.

STEAM DOSE



⇔Place a cup under the emulsioner outlet,

- Press the TOECO key for 10 seconds. The programming mode is indicated by the blinking LOECO LED. You have 10 seconds to do the programming.
- Press the steam key to start the cycle. Press it once again to stop at the end of the required duration.While storing, the LED chosen is on. Wait for 10 seconds to come back automatically to the normal working mode.

Cappuccino Machine

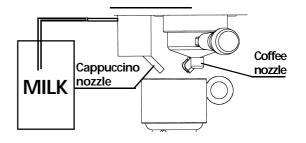
CAPPUCCINO DOSE



Programming here is carried out in 2 steps (emulsified milk and coffee programming) with the help of the TCAP key.

Once this programming is done, cappuccino may be obtained in one simple operation.

▷Prepare the coffee dose in the cup-holder for 1 cup and place the cup under the cappuccino and coffee nozzles.



- ▷Press the TOECO key for 10 seconds to enter into the programming phase. The LOECO LED blinks. You have 10 seconds to do the programming.
- ⇒Press the 1 cup TCAPP key to program the duration of emulsified milk flow.
- Press this key once again to stop the storing of the emulsified milk volume and start coffee programming.
- ⇒Press the same key for the third time to stop the storing of the coffee volume.

Thus, both functions are programmed on one single key.Wait for 10 seconds to come back automatically to the normal working mode.



⇔Place a cup under the milk outlet.

Press the TOECO key for 10 seconds. The programming mode is indicated by the blinking LOECO LED. You have 10 seconds to do the programming.

▷ Press the TML key to start the cycle. Press it once again to stop at the end of the required duration. While storing, the LED chosen is on.

Wait for 10 seconds to come back automatically to the normal working mode.

Appendix B

Volume ajustment

program

TECHNO

TECHNICAL GUIDE

③ PROGRAM FOR HOT WATER / STEAM BOILER TEMPERATURE ADJUSTMENT

 \Rightarrow Press the \bigotimes key once again to access the 3 rd program.

HOT WATER / STEAM boiler temperature adjustment

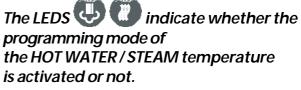
The LEDs on the keyboard indicate the temperature at which the boiler is presently set (factory setting: 115° C). To increase or decrease this set temperature, within a range between 109° C and 121° C:

 \Rightarrow Press the following keys one after the other: $\Box = -$ or $\Box = -$

See table below for the correspondence between glowing LEDs / temperature.

		-		+	
Boiler, 2nd program, coffee	(د ^س ک)	D	G	C	Steam boiler
86					
88					
90					
92					
94					
96					
98					V
					109
					111
					113
					115
					117
					119
					121

Temperature table ■ = Led on



The machine comes back to the normal working mode: ⇒If no adjustment is made within 10 seconds. ⇒If the ∰ key is pressed for the 4th time in the program mode.

PROGRAM FOR REGENERATION SIGNAL ADJUSTMENT

When this programming mode is activated, the LED (LNA) is BLINKING when the water flow used reaches the programmed value:

Regenerate the softener and reactivate the program for regeneration signal adjustment by switching OFF and re-switching ON the machine while maintaining the key TTE. Factory programming is set at 0 litre.

The programming chosen depends upon the hardness of the water and the softener used. This is done by the technician who installs the machine.

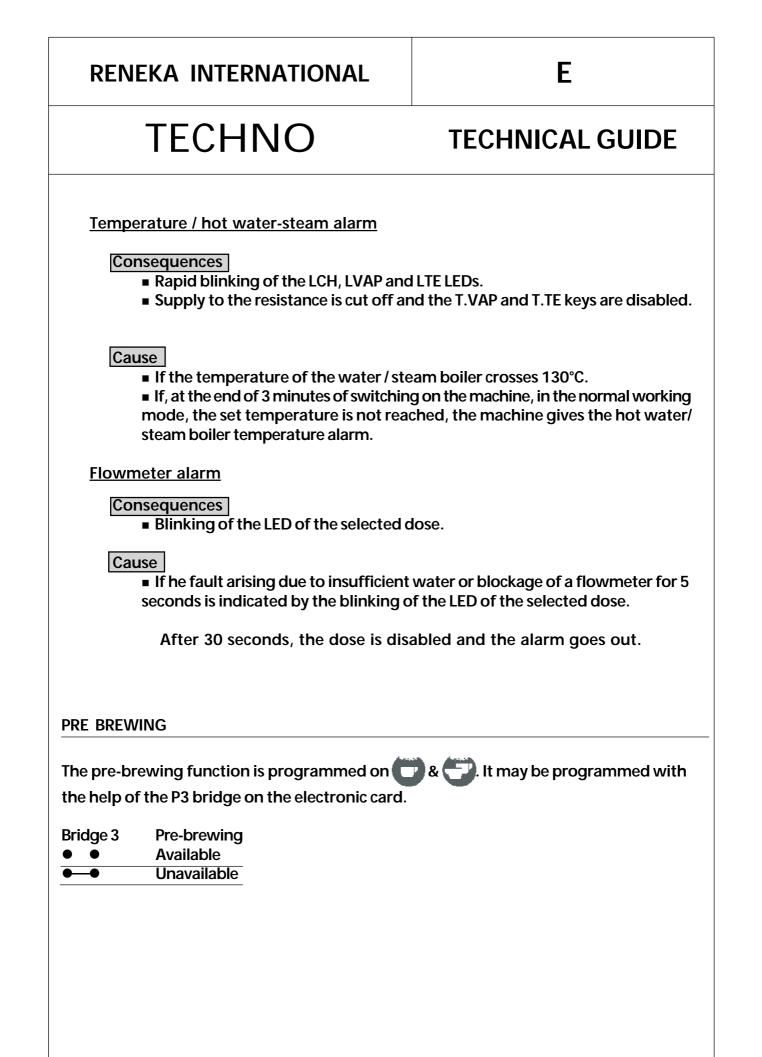
RENEKA INTERNATIONAL	D				
TECHNO	TECHNICAL GUIDE				
Activation of the litres programming mode:					
\Rightarrow Switch on the machine by pressing the key					
⇒ To increase or decrease the volume, press the following keys one after the othe	r: Liters LCAF1 LCAF2 LCAF3				
⇒ Switch off and on the machine to memory the programming mode.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				
SAFETY PROCEDURES					
<u>Filling alarm</u> Consequences The heating LED LCH remains off. Other LEDs blink rapidly.					
 Causes If the level in the hot water / steam boiler is still low after 3 minutes of filling. If the level in the hot water / steam boiler is still not reached a minute after hot water has been drawn. Check is done in the ON and ECO mode. 					
<u>Temperature / coffee alarm</u>	Temperature / coffee alarm				
Consequences	link				

 Supply to the resistance is cut off and the keys CAF1, CAF2 and CAF3 are disabled.

Cause

■ If the temperature of the coffee boiler crosses 120°C.

• If, at the end of 3 minutes of switching on the machine, in the normal working mode, the set temperature is not reached, the machine gives the coffee boiler temperature alarm.



F

TECHNO

TECHNICAL GUIDE

DRAINING (BOILERS)

- Using the «drain» function, the boilers may be quickly cooled, in case repairs become necessary.
- To access the «drain» function:
 - ⇒Cut out the power supply (ON / OFF switch)
 - \Rightarrow Switch on while keeping \bigcirc & \bigcirc pressed.
- The heating is stopped.
- The coffee and hot water functions are available.
 - \Rightarrow Draw all hot water (TTE) until cold water flows out.
 - \Rightarrow To come back to the normal working mode.
 - \Rightarrow Switch off the machine and switch it on once again.

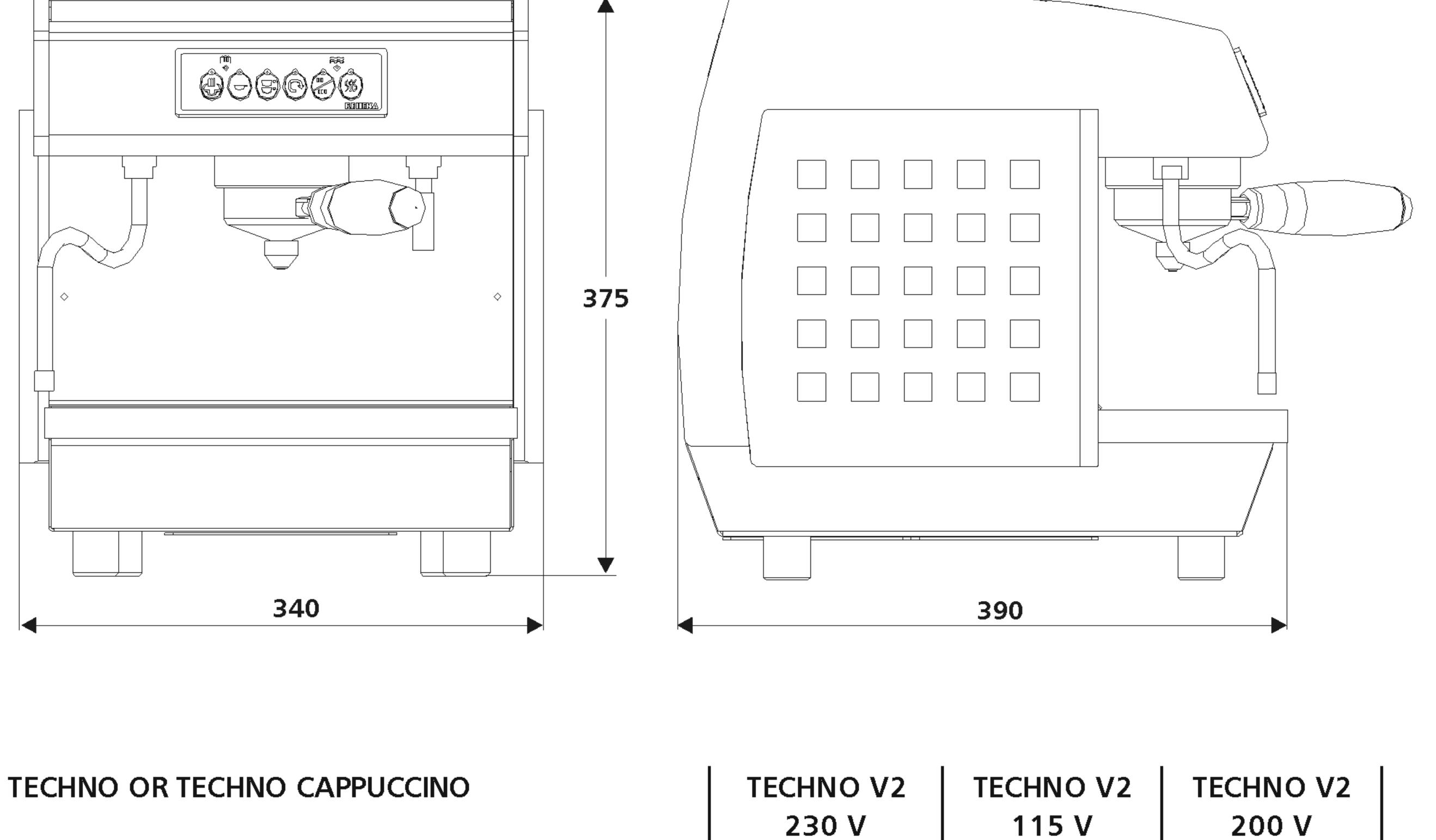
<u>Note</u> : Note: If the power supply is interrupted, all the functions of the machine will be restored normally, as if the ON / OFF button is activated.

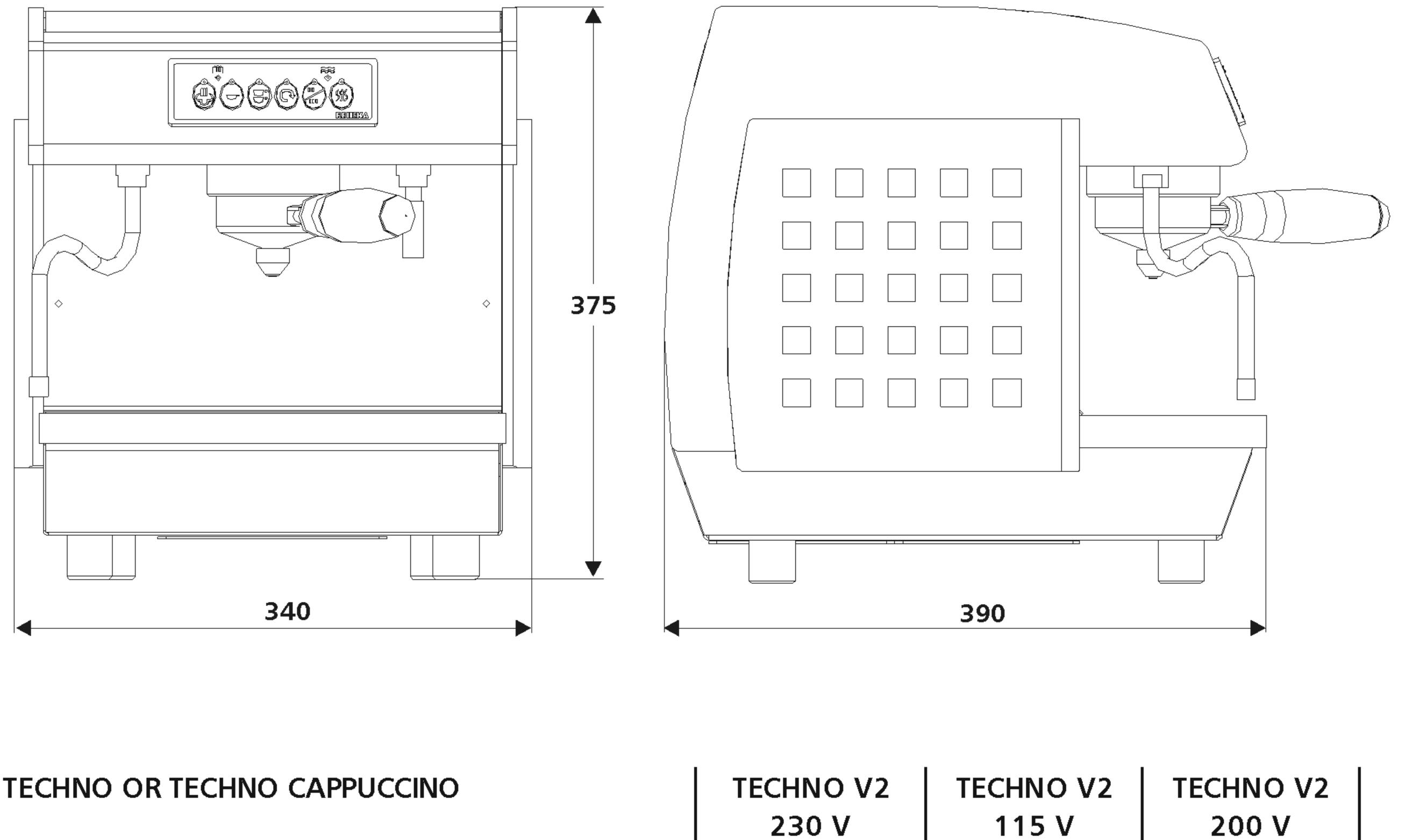
<u>Note</u> : The machine is equipped with a RS232 plug which makes it possible to be connected to a management system (Hartwall) or to a meter (available on demand from our technical services department) interface.

01.00

TECHNO

TECHNICAL DATA



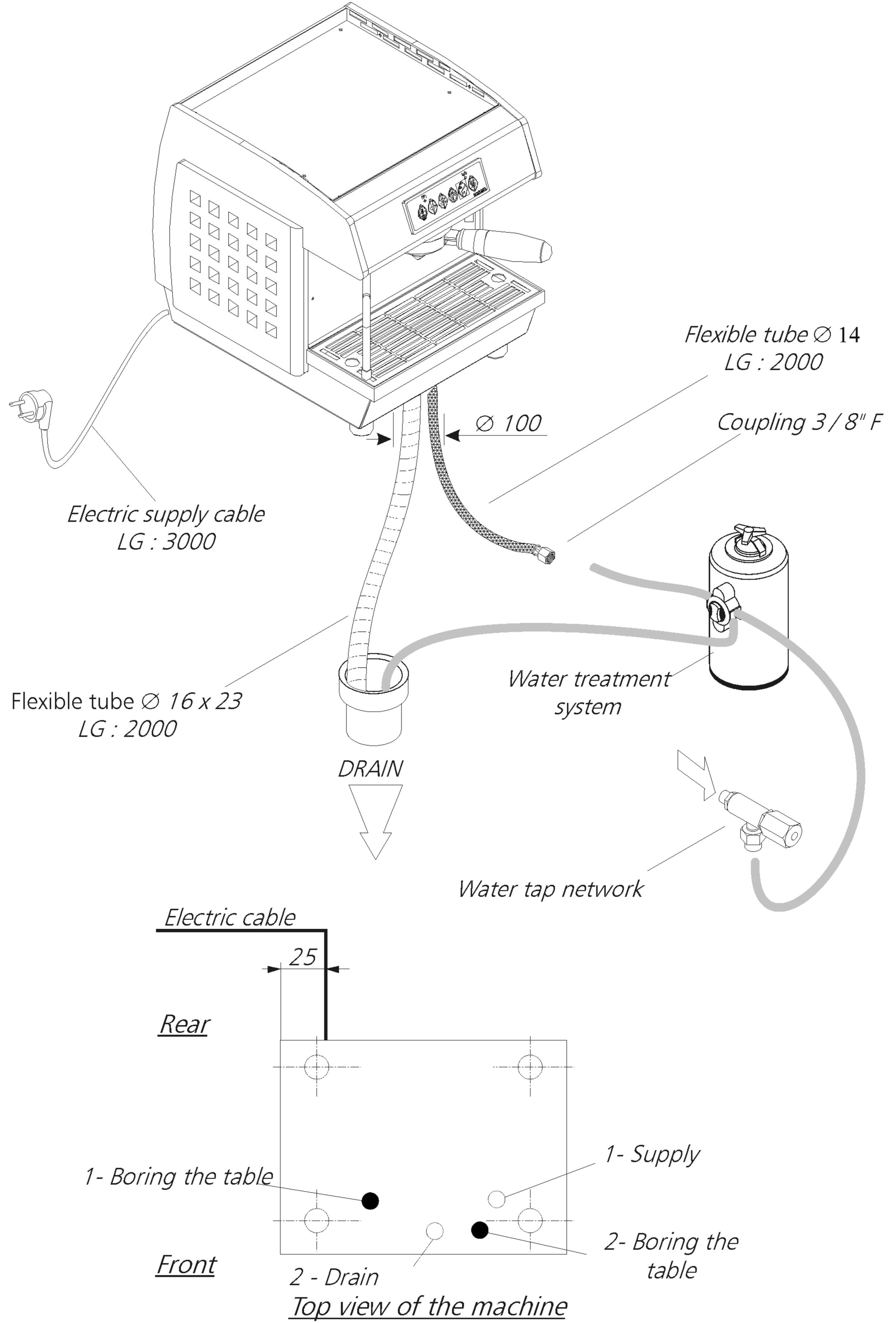


		29 Kg	29 Kg
	31 Kg	31 Kg	31 Kg
	500x400x450	500x400x450	500x400x450
(factory set)	230V/50-60Hz	115V/50-60Hz	200V/50-60Hz
	Prise 16A	Prise 16A	Prise 16A
(W)	2 X 1800	2 X 1300	2 X 1800
(W)	2000	1500	2000
(Amp)	9	13	10
	Rotary 50l/h	Rotary 50l/h	Rotary 50l/h
(V.A)	120	120	120
(V)	230	115	200
(W)	9	9	9
(V)	230	115	200
(in liter)			
	1,4	1,4	1,4
	1,4	1,4	1,4
	(\W) (\W) (Amp) (V.A) (V) (\W) (\V)	Prise 16A (W) 2 X 1800 (W) 2000 (Amp) 9 Rotary 50l/h (V.A) 120 (V) 230 (W) 9 (W) 230	Prise 16A Prise 16A (W) 2 X 1800 2 X 1300 (W) 2000 1500 (W) 9 13 (Amp) 9 13 Rotary 50l/h Rotary 50l/h Rotary 50l/h (V.A) 120 120 (V) 230 115 (W) 9 9 (W) 230 115

02.00

TECHNO

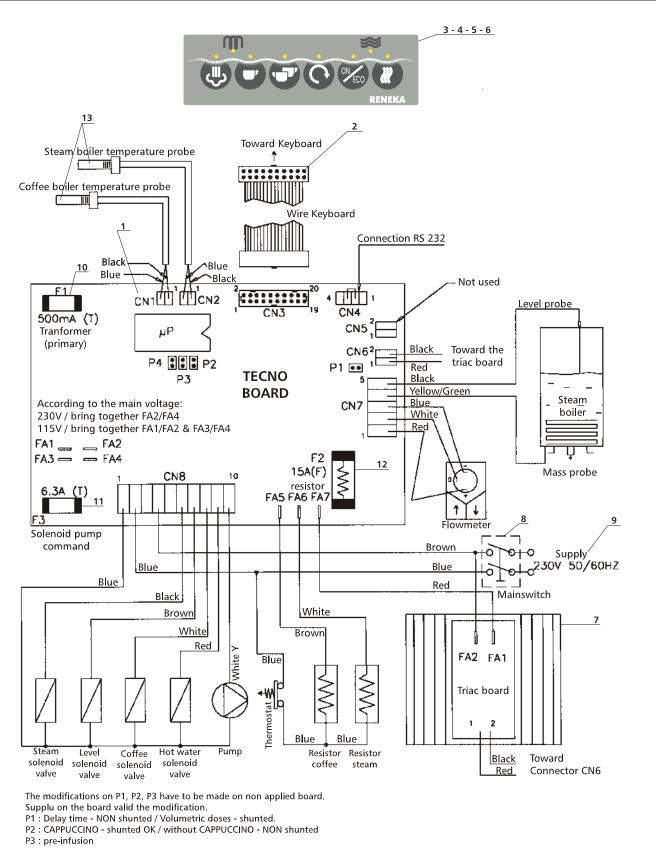
INSTALLATION SHEET



03.00

TECHNO

ELCTRONIC SCHEME



P4 : Programmation available - shunted / Programmation not available - NON shunted

03.00

TECHNO

ELECTRONIC SCHEME

N°	Designation	Reference	Remarks
1	ELECTRONIC TECHNO	9003372	
2	FLAT CABLE	9003367	
3	TECHNO KEYBOARD	9006817	
4	TECHNO CAPPUCCINO KEYBOARD	9006815	
5	KEYBOARD MEMBRAN	9006803	
6	CAPPUCCINO KEYBOARD MEMBRAN	9006804	
7	TRIAC + COMPLET HEAT SINK	9003373	
8	MAINSWITCH / BIPOLAR	9004118	
9	SUPPLY CABLE 230V	9003370	
10	FUSE 500mA (T)	9008424	
11	FUSE 6,3A (T)	9005243	
12	FUSE 15A (F)	9008423	
13	TEMPERATURE PROBE	9003366	



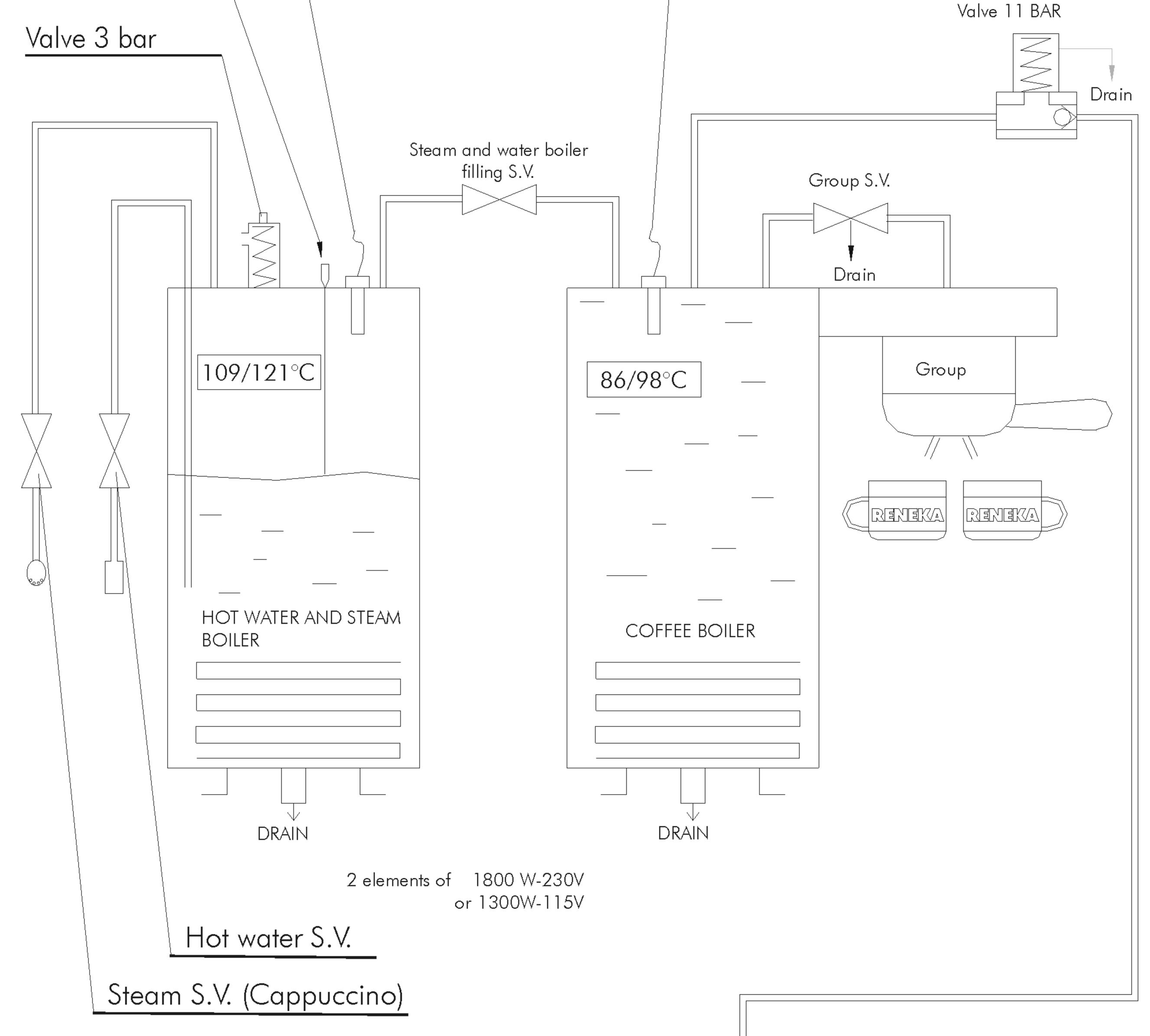
TECHNO

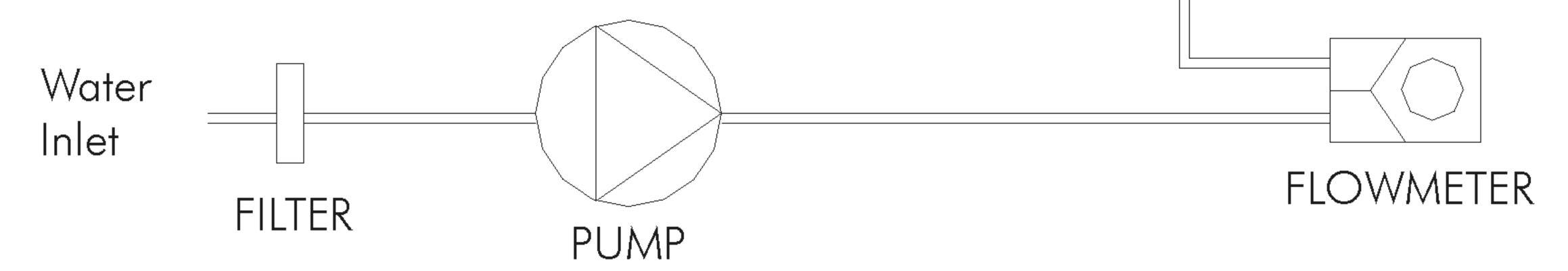
HYDRAULIC SCHEME

Steam boiler temperature probe

Level probe

Coffee boiler temperature probe

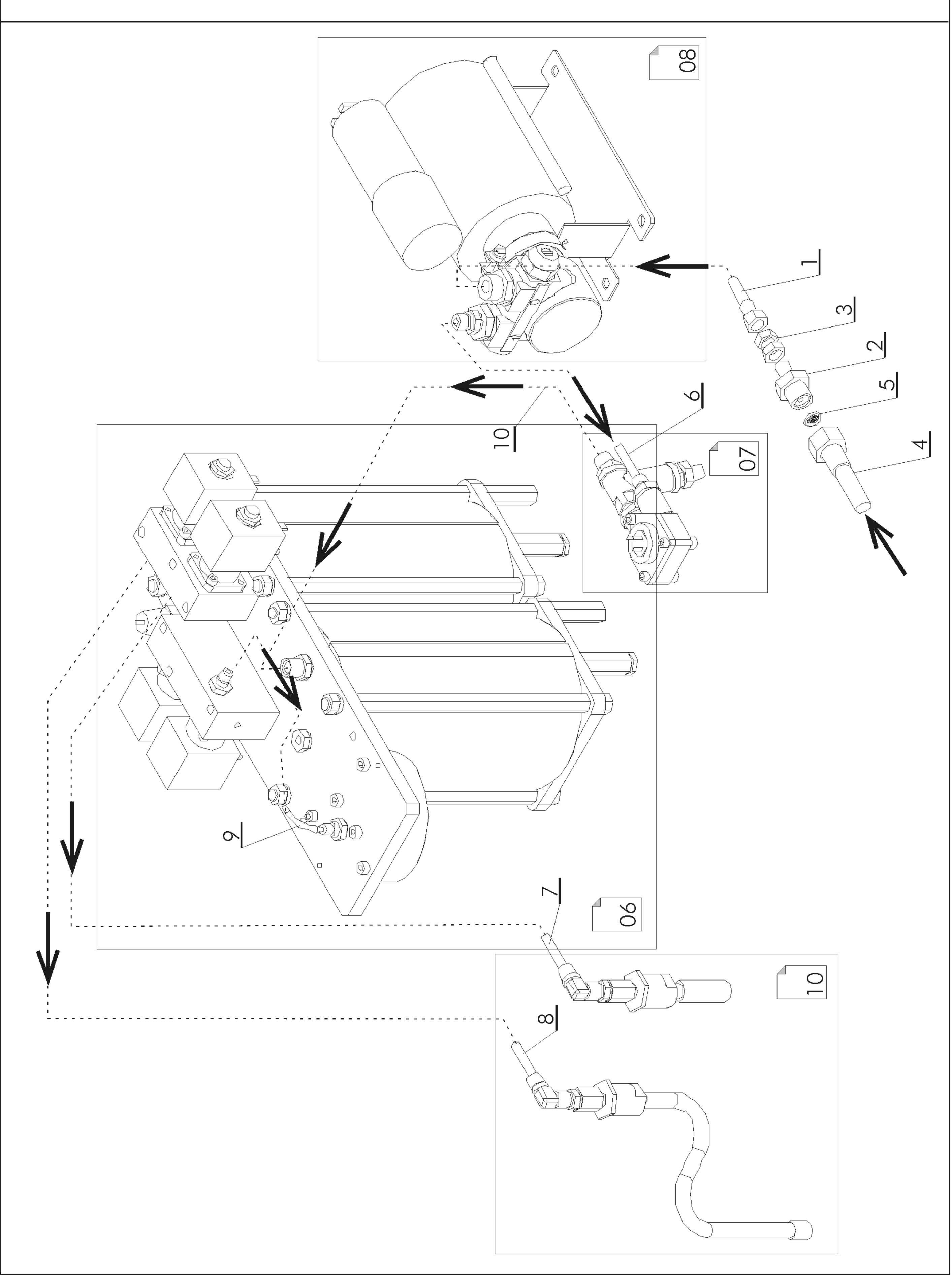






TECHNO

HYDRAULIC SET



05.00

TECHNO

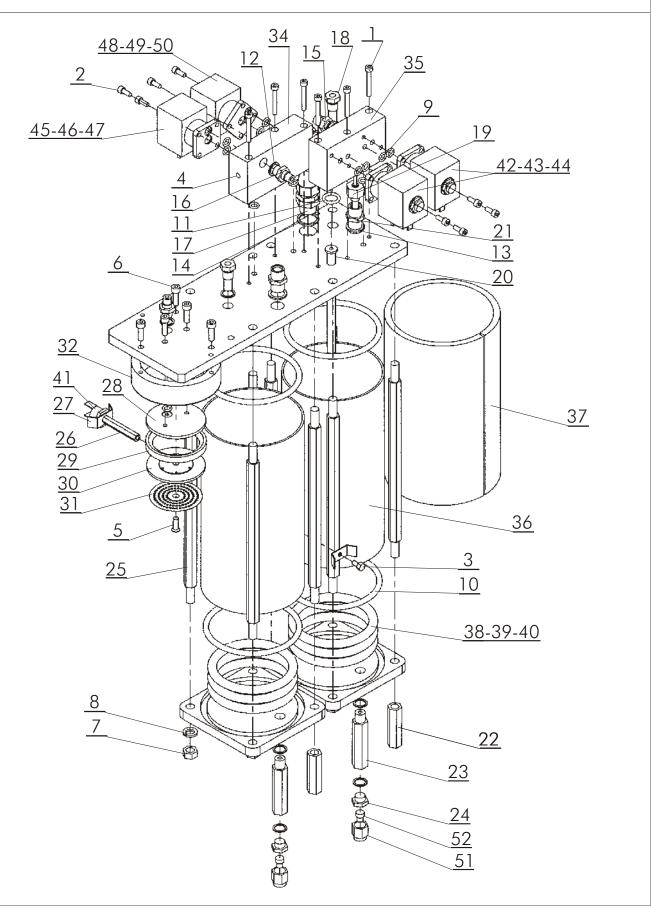
HYDRAULIC SET

N°	Designation	Reference	Remarks
1	FLEXIBLE TUBE 1/8F-3/8F LG280	9005258	
2	COUPLING 3/8M-1/8M	9001629	
3	FLAT NUT 1/8 EP.5	9001570	
4	TUBE TRESSE 3/8F LG 2000 - PLAT/OGIVE	9005303	
5	FILTER 200 MICRONS	9007312	
6	TEFLON TUBE D6-4 - THE METER	9005294	length recommended: 37 cm
7	TEFLON TUBE D6-4 - THE METER	9005294	length recommended: 44 cm
8	TEFLON TUBE D6-4 - THE METER	9005294	length recommended: 32 cm
9	TEFLON TUBE D4-2,5 - THE METER	9005249	length recommended: 21 cm
10	PREMOUNTED SUPPLY TUBE	9010832	

06.00

TECHNO

BOILER SET



06.00

TECHNO

BOILER SET

N°	Designation	Reference	Remarks
1	SCREW CHC M 4X30 INOX	9001177	
2	SCREW CHC M 4X10 INOX	9001173	
3	SCREW TH M 4X8 INOX	9001188	
4	SCREW STHC M 6X6 INOX	9001037	
5	SCREW TF M 5X12 INOX	9001089	
6	SCREW CHC M 5X16 INOX	9001182	
7	NUT HM 8 INOX	9001282	
8	WASHER INOX	9001321	
9	O RING VITON D6,07X1,78	9001829	
10	O RING D85,09X5,33	9001818	
11	O RING D12,37X2,62 70SH SILICON	9001844	
12	COPPER GASKET 1/8 10,3X13,5X1	9001711	
13	COPPER GASKET 1/4 13,5X18X1,5	9001712	
14	COPPER GASKET 3/8 17,3X21X1,5	9001713	
15	QUICK FITTING MALE 1/8-6	9003429	
16	QUICK FITTING MALE 1/8-4	9004119	
17	SUPER PRESSURE VALVE 3 BAR	9003437	
18	TEMPERATURE PROBE	9003366	
19	LEVEL PROBE LG 100 CPLT	9010839	
20	DRAIN ASSEMBLY GUIDE	9010857	
21	COUPLING 1/4M-1/4M	9001659	
22	FIXING BRACE	9003411	
23	DRAIN BRACE	9003412	
24	CORK 1/8 MALE	9001605	before 05/2000
25	BOILER FIXING POLE	9003410	
26	BRACE FEMALE/FEMALE M4X45	9001381	
27	THERMOSTAT SUPPORT	9003439	
28	DIFFUSER HOLDER	9003431	
29	3 BOLTS BAYONNET GASKET	9003433	

06.00

TECHNO

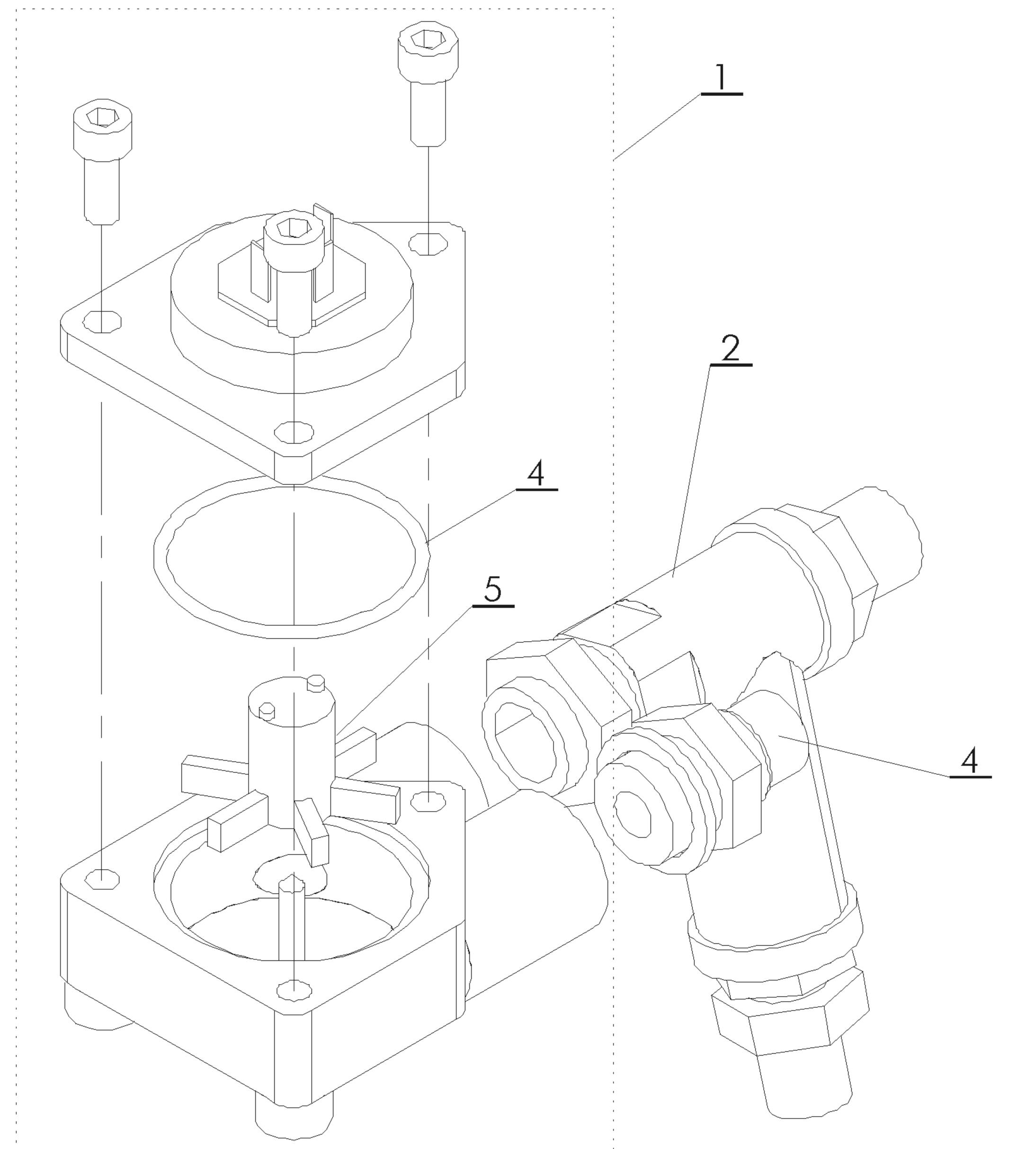
BOILER SET

N°	Designation	Reference	Remarks
30	DIFFUSER	9003432	
31	DISMOUNTABLE SHOWER	9003470	
32	BOWL HOLDER / ROUND	9004092	
33	BOILER FLANGE	9003408	
34	COFFEE SUPLIER / FILLING	9003416	
35	WATER AND STEAM SUPPLIER	9003415	
36	CUPPER SHELL	9003409	
37	BOILER ISOLATION	9003414	
38	HEATING ELEMENT 1800W - 230V - 105X105	9005391	
39	HEATING ELEMENT 1300W-115V - 105X105	9005392	
40	HEATING ELEMENT 1800W/200V - 105 X 105	9005393	
41	RESET THERMOSTAT 135°C	9003413	
42	SV 2 WAYS 230V / 50-60 Hz	9003435	
43	SV 2 WAYS 115V / 50-60 Hz	9003451	
44	SV 2 WAYS 200V / 50-60 Hz	9003452	
45	SV 3 WAYS 220-240V / 50-60 Hz	9008257	
46	110V 3 WAYS FILLING VALVE	9003341	
47	3 WAYS VALVE 200V/50-60Hz Nick - VE128IRA	9003401	
48	SV 2 WAYS 1,3mm 230V/50-60Hz	9003364	
49	SV 2 WAYS 1,3mm 115V/50-60Hz	9003467	
50	SV 2 WAYS 1,3mm 200V/50-60Hz	9003468	
51	SCREW NUT 1/8 - 6	9001481	after 05/200
52	PLUG 6 mm FOR SCREW NUT 1/8	9006655	after 05/200

07.00

TECHNO

FLOWMETER SET



07.00

TECHNO

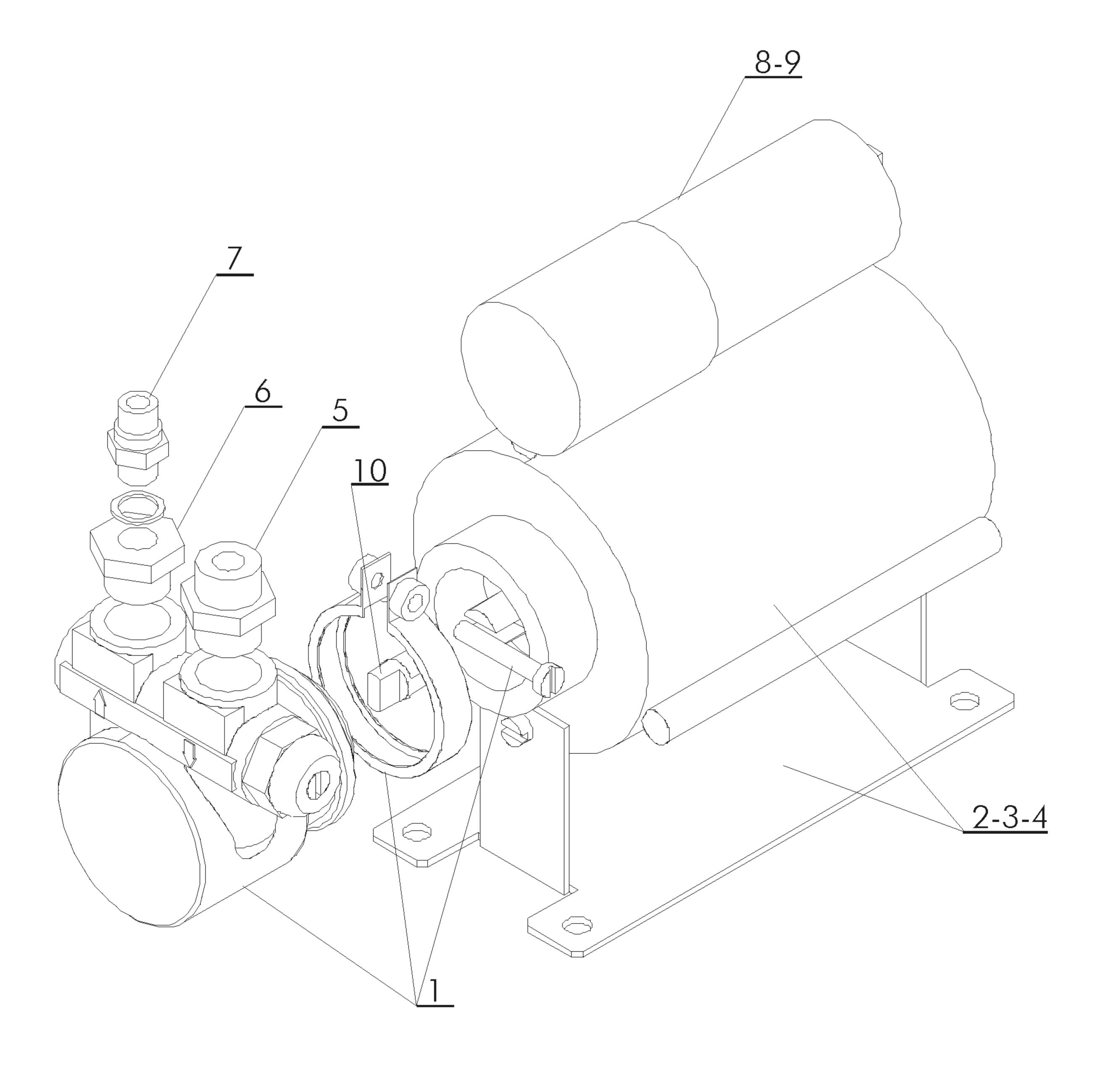
FLOWMETER SET

N°	Designation	Reference	Remarks
1	FLOWMETER	9008954	
2	SUPER PRESSURE VALVE	9003436	
3	QUICK FITTING MALE 1/4-6 WITH O RING	9003430	
4	O RING	9001867	
5	HELIX	9003579	



TECHNO

PUMP SET



08.00

TECHNO

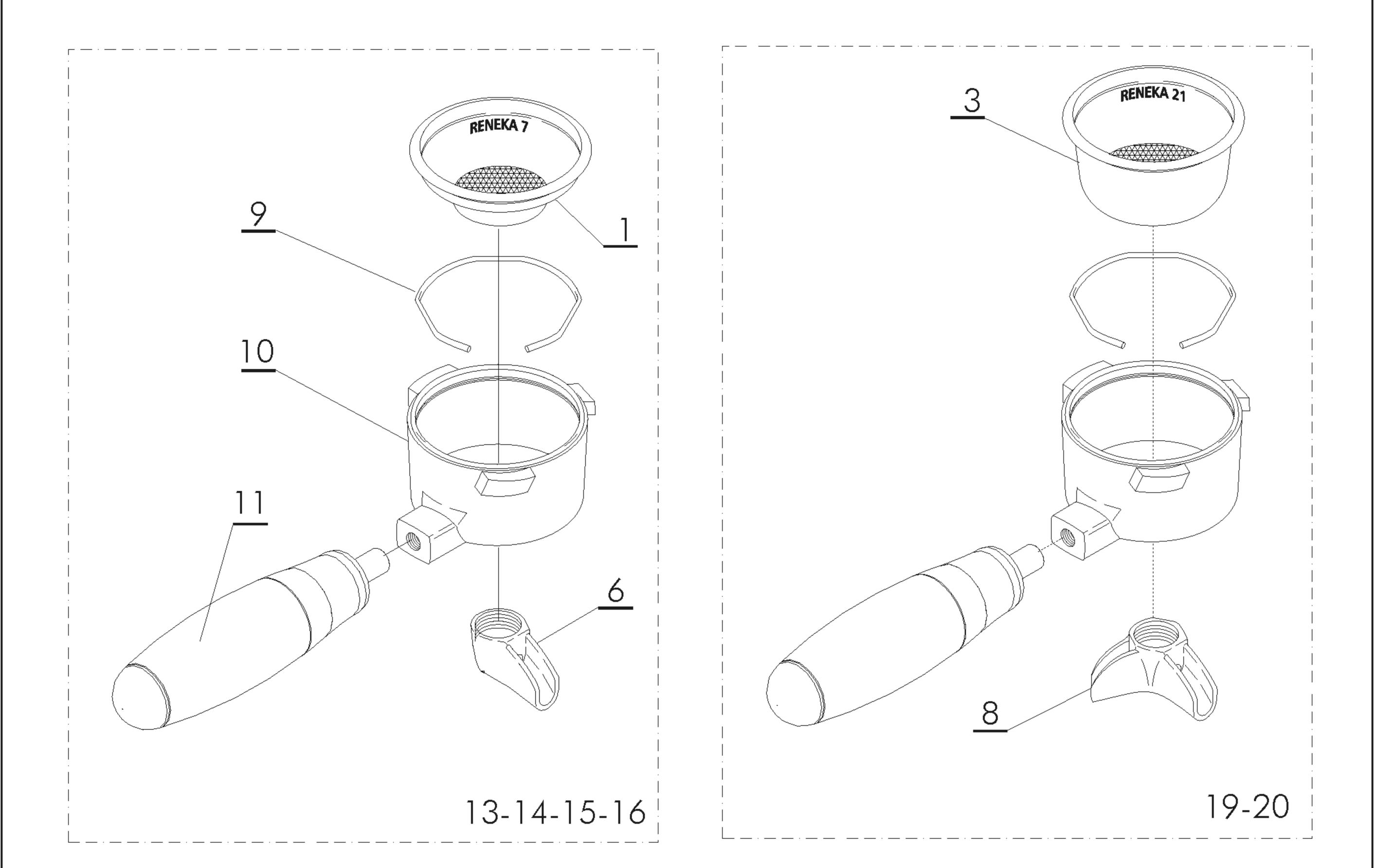
PUMP SET

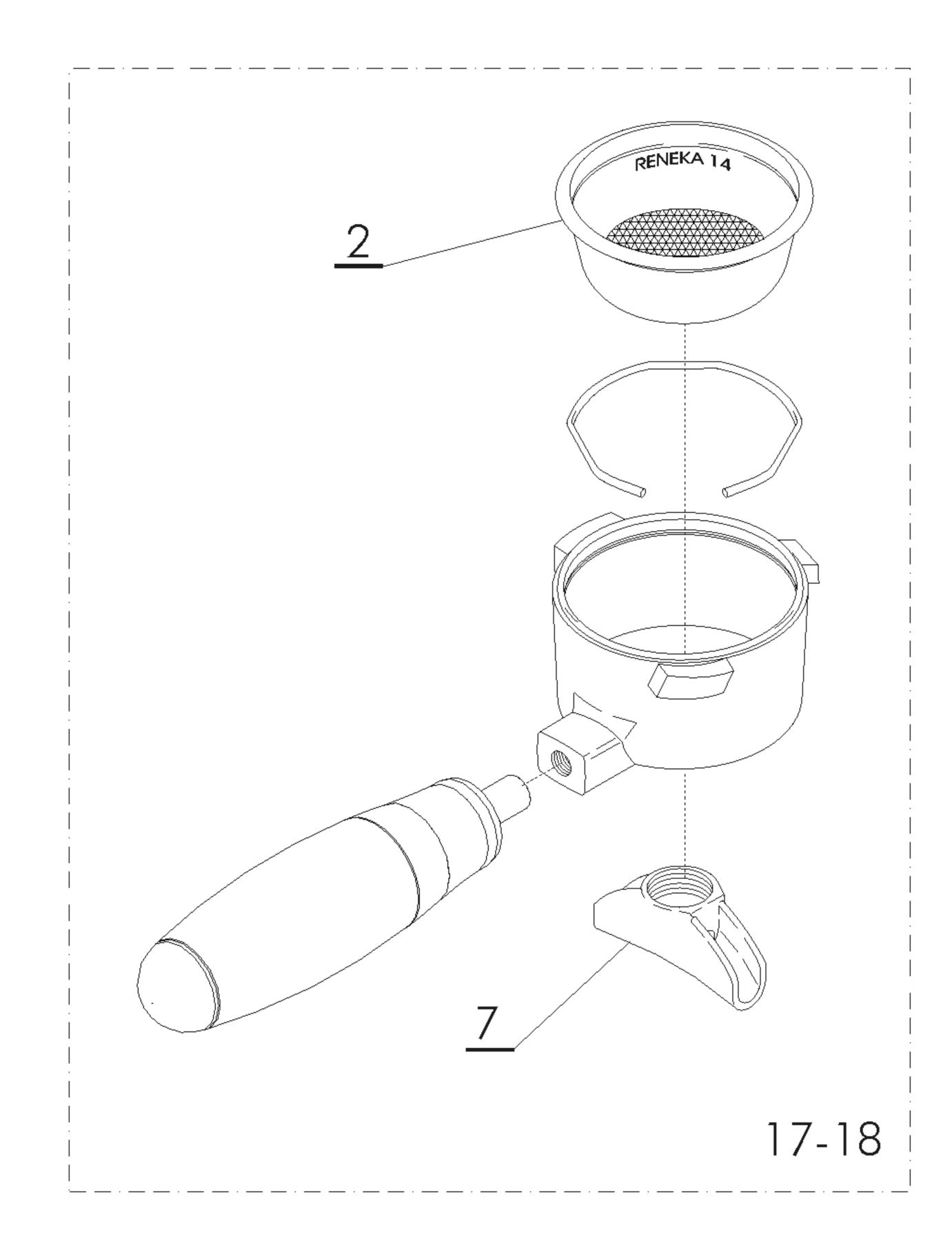
N°	Designation	Reference	Remarks
1	ROTATIV PUMP HEAD	9003418	
2	PUMP MOTOR 120W - 50-60Hz	9003417	
3	PUMP MOTOR 120W - 115V - 50/60Hz	9003447	
4	PUMP MOTOR 120W - 200V - 50/60Hz	9003448	
5	DOUBLE COUPLING 3/8G 3/8NPT	9001653	
6	COUPLING MALE 3/8 M NPT - 1/8 F	9001456	
7	QUICK FITTING MALE 1/8-6 WITH O RING	9003429	
8	CAPACITOR 6.3MF/450V/50HZ	9008493	
9	CAPACITOR 25MF	9008496	
10	COOPLING		delivered with pump head

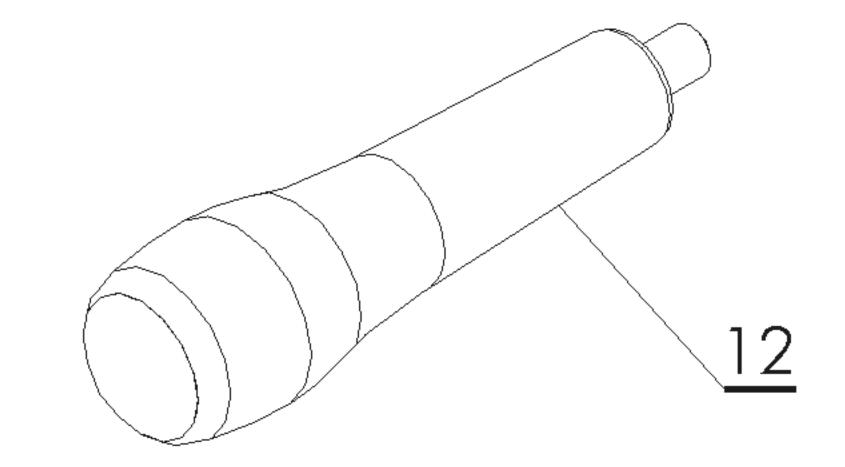


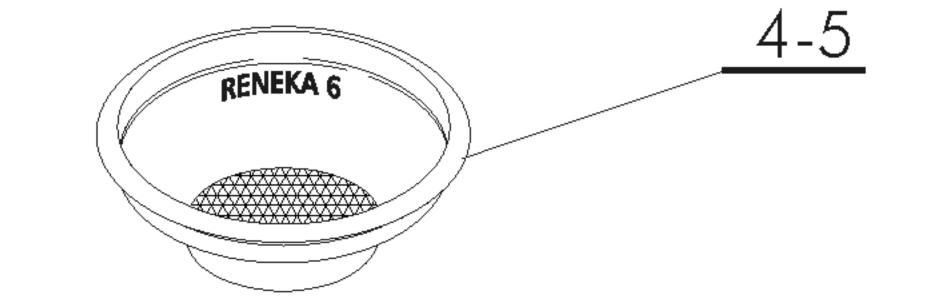
TECHNO

FILTER HOLDER SET









09.00

TECHNO

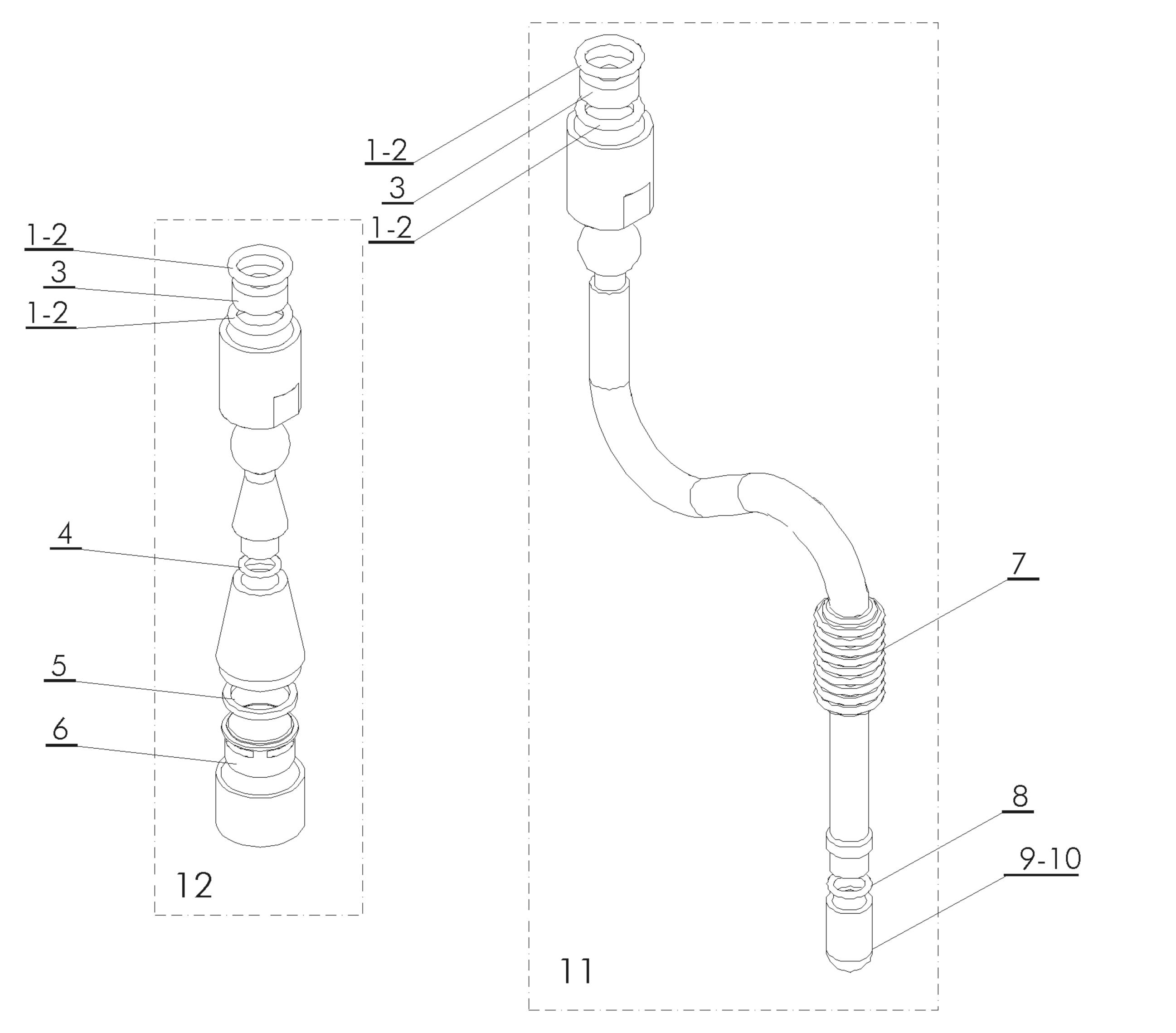
FILTER HOLDERS SET

N°	Designation	Reference	Remarks
1	FILTER SIEVE 1 CUP / 7g	9003947	
2	FILTER SIEVE 2 CUPS 14GR	9003944	
3	FILTER SIEVE 3 CUPS	9003939	
4	FILTER SIEVE 1 CUP 6G	9003961	
5	POD SYSTEM 1 CUP	9003951	
6	1 CUP NOZZLE SIDE OUTFLOW /6152	9006301	
7	2 CUPS NOZZLE	9006153	
8	3 CUPS NOZZLE	9006154	
9	BLOCKING SPRING Dia 1,3mm	9007744	
10	FILTER HOLDER 94 / 3 PLOTS	9004935	
11	BAYONNET HOLDER SOFT	9004921	since January 2001
12	BLACK HANDLE	9004922	until January 2001
13	1 CUP FILTER ASSEMBLY 7gr	9004891	since January 2001
14	1 CUP HOLDER ASSEMBLY	9002717	until January 2001
15	POD'S CUP HOLDER ASSEMBLY / 3 PLOTS - SOFT	9004890	since January 2001
16	POD'S CUP HOLDER ASSEMBLY /3 PLOTS - BLACK	9002724	until January 2001
17	2 CUPS FILTER ASSEMBLY / 3 PLOTS - 14gr	9004892	since January 2001
18	2 CUPS HOLDER ASSEMBLY / 3 PLOTS - BLACK	9002718	until January 2001
19	3 CUPS FILTER ASSEMBLY / 3 PLOTS - SOFT	9004893	since January 2001
20	3 CUPS FILTER ASSEMBLY / 3 PLOTS - BLACK	9002719	until January 2001

10.00

HOT WATER AND STEAM NOZZLES



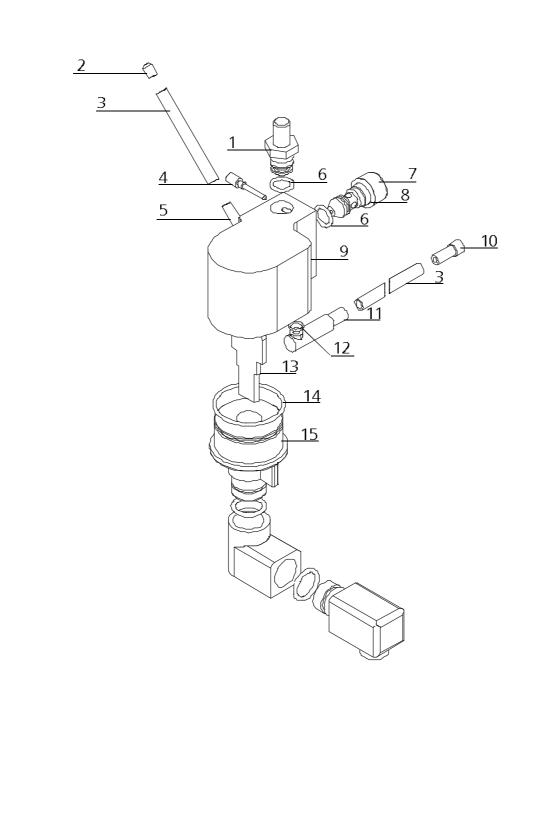


	RENEKA INTERNATIONAL	10.00 HOT WATER / STEAM NOZZLES	
	TECHNO		
N°	Designation	Reference	Remarks
1	O RING Dia 12,37X2,62 SILICON	9001844	until January 2001
2	O RING	9001883	since January 2001
3	PIPING NOZZLE	9001887	since January 2001
4	O RING	9001884	
5	FLAT O RING	9001886	
6	HOT WATER DIFFUSER	9001890	
7	STEAM ARM ANTI BURN RUBBER	9001810	
8	O RING	9001885	
9	STEAM ARM NOZZLE	9005762	until January 2001
10	EMBOUT DE BIEBERON VAPEUR	9001891	since January 2001
11	COMPLET STEAM ARM TECHNO	9003698	
12	COMPLET HOT WATER ARM	9003697	

11.00

TECHNO

CAPPUCCINO SYSTEM

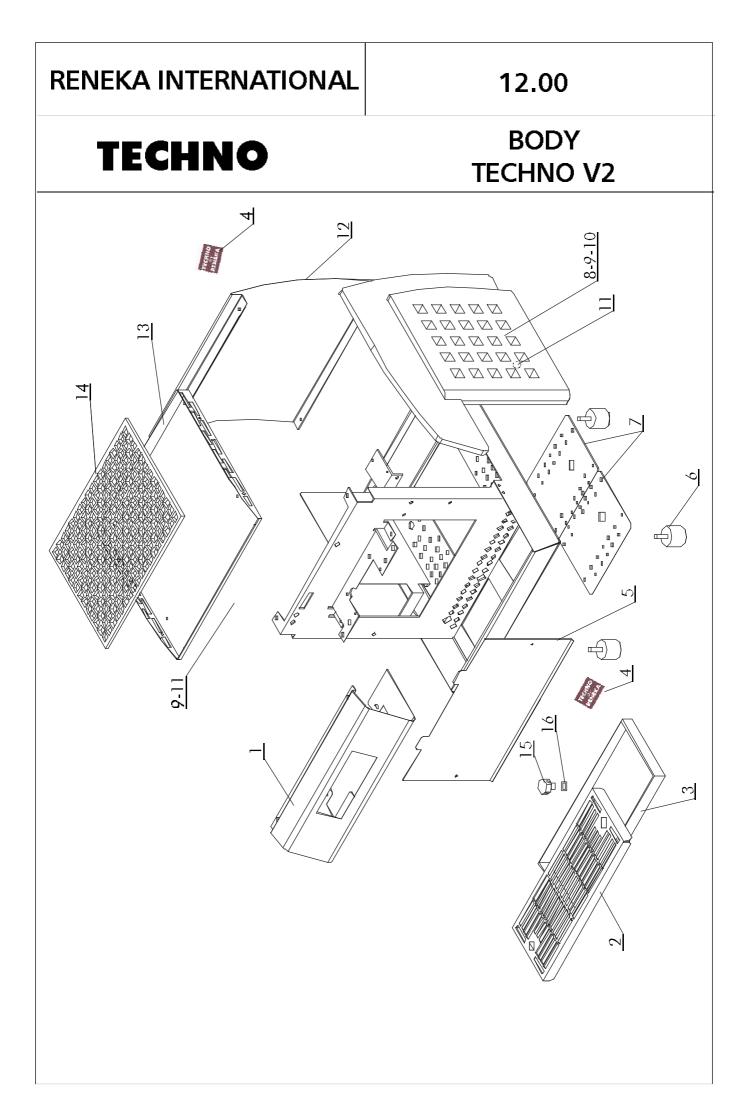


11.00

TECHNO

CAPPUCCINO SYSTEM

N°	Designation	Reference	Remarks		
1	CAPPUCCINO COUPLING	9006429			
2	CAPPUCCINO BREATHER 0.4mm	9006427			
3	SILICON TUBE D4X7	9005268			
4	SCREW	9006428			
5	TEFLON TUBE LG 25	9006436			
6	STEAM NOZZLE O-RING	9006412			
7	CAPPUCCINO SCREW	9006431			
8	O RING Dia 12,37X2,62 SILICON	9001844			
9	CAPPUCCINO BODY	9006425			
10	MILK PIPE	9006422			
11	ELBOW	9006420			
12	O RING ON ELBOW	9006419			
13	CAPPUCCINO PALLET	9006423			
14	O RING	9006417			
15	CAPPUCCINO NOZZLE	9006426			



13.00

TECHNO

BODY TECHNO V2

N°	Designation	Reference	Remarks
1	FRONT PANEL	9003129	
2	DRIP GRID TECHNO	9003138	
3	DRIP PLATE TECHNO	9003137	
4	STICKER "TECHNO BY RENEKA"	9003456	
5	LOWER FRONT COVER	9003127	
6	FEET	9003422	
7	GROUND PLATE	9003136	
8	PANEL SET CARMIN RED TECHNO V2	9002593	
9	PANEL SET GREY METALLIC TECHNO V2	9002594	
10	PANEL SET BROWN TECHNO V2	9002592	
11	OBTURATOR PLASTIC D.19	9004000	
12	REAR PANEL	9003126	
13	CUPS HOLDER GRID	9003128	
14	PLASTIC GRID	9002600	
15	DRAIN COOLECTING SCREW	9003461	
16	FLAT O-RING 15 X 21 X 2	9001873	