

FILTERBREW & SERVING CONCEPT

TECHNICAL MANUAL



TM_EN

Part No.: 1764092_02



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Some important information may appear in textboxes seen below



Introduction

Thank you for choosing a FILTERBREWER coffee machine.
We hope you enjoy it !

- Read the user guide before using the machine.
- This guide contains important instructions for proper and safe use of the vending machine.
- Always keep this guide close at hand for future reference.

Warnings

- Never immerse the machine, plug or mains cable in water because there is a danger of electric shock.
- The appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure they do not play with the appliance.
- Do not use the machine if the mains cable, plug is damaged or the machine has fallen down.
- If the mains cable is damaged it must be replaced by the manufacturer, service agent or similarly qualified persons in order to avoid a hazard.
- Only plug the machine into a properly installed earthed safety socket whose line voltage matches the technical data for the machine.

Precautions

- Do not use the machine outdoors so it can be exposed to weather (rain, snow, frost). It will cause material damage to the machine.
- Do not try to open the machine or repair it in any way. To avoid danger only have the machine repaired in a technical workshop, Service Centre or by a qualified person.
- Remove the mains cable from the socket when the machine is not in use for longer periods. To do this, pull the plug not the cable.
- This appliance must be placed in a horizontal position which is resistant to any water that may leak.
- Place the machine out of the reach of children.
- Position the mains cable so that people cannot trip over it. Keep it away from sharp edges and heat sources.
- The new hose-sets supplied with this appliance are to be used, old hose-sets must not be re-used.
- This appliance is not suitable for installation in an area where a water jet could be used.
- This appliance must not be cleaned by a water jet.

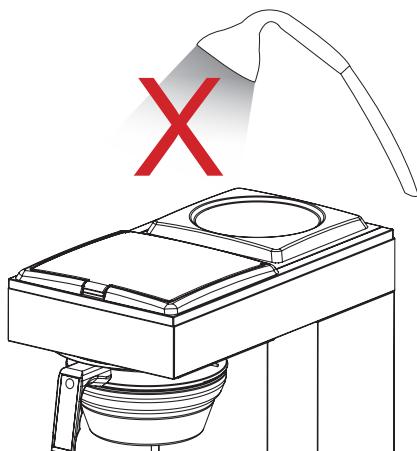
Intended use

- This appliance is intended to be used in household and similar applications such as:
 - Staff kitchen areas in shops.
 - Offices and other commercial working environments.
 - On agricultural estates.
 - By clients in hotels, motels and other residential type environments.
 - Bed and breakfast type environments.
- For the optimal performance of the machine these parameters shall not be exceeded:
 - Maximum permissible inlet water pressure : 800KPa (8Bar)
 - Minimum permissible inlet water pressure: 200KPa (2Bar)
 - Maximum working temperature: 40 °C
 - Minimum working temperature: 10 °C

Rinse Thermos, Decanter and Serving station



- Before each brewing, rinse the thermos, decanter or serving station with fresh tap water.
- When cleaning the outside, use a soft rag with liquid cleaning agent to prevent scratches.

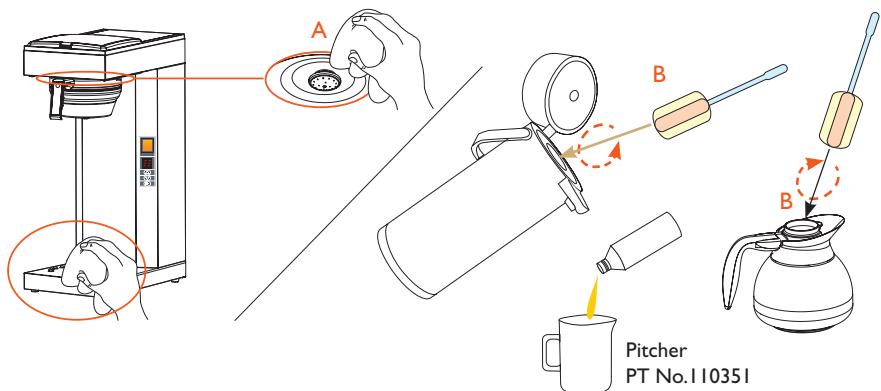


CAUTION!

The machine should not be submerged in water or washed in a dishwasher: it will result in machine damage.

Dayly cleaning

- Wash the thermos, decanter(B) and the filter holder with liquid solution for coffee machines. Always remove the filter immediately and clean the filter holder daily, coffee will get moldy.
- Clean the spray nozzle(A) and the surrounding area.
- Use a soft rag and liquid solution that does not scratch.



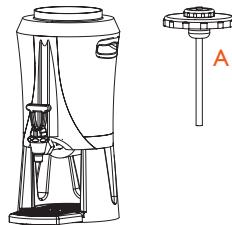
Weekly cleaning

- Descaling and cleaning.
- Pour 50 ml descaling / cleaning solution in a decanter and fill it up with cold water.
- Pour the mixture in the machine and proceed with a brewing without a filterpaper or coffee.
- Rinse the machine thoroughly by brewing at least 3 times with clean water so that the particles from descaling solution disappear.
- Regular descaling will ensure optimum brewing performance and a longer life of the machine.
- When cleaning the decanter in a dishwasher. Dismantle lid and place decanter upside down in the dishwasher.(A)



Cleaning Serving station

- Disassemble the level tube and clean it every week with the enclosed brush.
- Take off the main lid and clean the mixer tube(A).

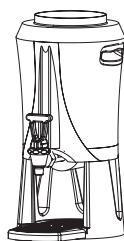
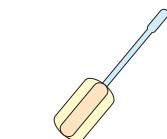


IMPORTANT!

Rinse the inside of the serving station several times with fresh tap water.

Cleaning of Serving station

- Fill the serving station with hot water. (Full brewing without coffee and filter).
- Put 1 tablespoon with cleaning powder in the serving station and wait at least 15 minutes.
- Tap out 2/3 of the cleaning solution.
- Clean the serving station with the cleaning brush.
- Rinse the serving station with fresh tap water several times before reuse.



OPTIONS



Part No.	CLEANING PARTS
I10102-02	Cleaning powder
I10423I	Cleaning brush
I103360	Cleaning brush for level tube, mixer tube

Exterior cleaning

- When cleaning exterior of the machine, use a soft rag with liquid cleaning agent to prevent scratches.

A-2, DA-4, Thermos A, Mega Gold A

Select machine type



Enter the procedure to select machine type is the following:

- Press all three buttons , and at the same time before turning on the mains switch The buzzer beeps once.
- The display shows the current setting.
- Step up with button and step down with button .
- Press the button to save setting and exit to normal mode.

MACHINE TYPE	DISPLAY	CUPS	CUP TIME	BUZZER TIME
DA/A-2	T1	4-12	9.25 s	247
Termos A	T2	4-15	9.25 s	292
Mega A	T3	4-17	9.25 s	344

A-2, DA-4, Thermos A, Mega Gold A

I Adjust water amount



- Adjust amount of brew water
- Press the buttons and at same time in 5 seconds.
- The buzzer beeps twice. Display shows 0.
- Press the button to increase amount of water.
- Press the button to decrease amount of water.
- 1 step = 5%
- Press the button to confirm the change.

ADJUST	DISPLAY
25%	5
20%	4
15%	3
10%	2
5%	1
0%	0
-5%	-1
-10%	-2
-15%	-3
-20%	-4
-25%	-5

I Adjust brew time



- Adjust the brew time
- Press the buttons and at same time in 5 seconds.
- The buzzer beeps four times. Display shows 0.
- Press the button to increase brewing time.
- Press the button to decrease brewing time.
- 1 step = 5%
- Press the button to confirm the change.
- Display shows and machine is ready to use.

Cater

| Normal operation with reduced outlet time



- This mode is entered by pressing the and before turning the mains switch on. The buzzer gives a 5s beep to indicate this mode.
- This machine operates like in normal mode but the outlet times are reduced by 90% in order to allow faster adjustment of valve times.

| Adjusting of water temperature



- Press buttons and at the same time for 5 seconds until you hear one beep. Display shows the present setting
- Adjust with the buttons = (increase) and = (decrease).
- Confirm the new settings by pressing the button.
70 °C = min. temperature.
96 °C = max. temperature.

| Adjusting of temperature sensor

ADJUST	DISPLAY
+5°C	5
+4°C	4
+3°C	3
+2°C	2
+1°C	1
0	0
-1°C	-1
-2°C	-2
-3°C	-3
-4°C	-4
-5°C	-5

In this mode a temperature offset for the NTC sensor can be adjusted. The procedure to enter this mode is the following:

- Press buttons , and at the same time for 5 seconds until you hear 2 beeps.
- The display shows the current setting.
- Adjust with the buttons = (increase) and = (decrease).
- Pressing the button to save new settings and return to normal mode.

Cater

| Adjusting of water quantity

ADJUST	DISPLAY
25%	5
20%	4
15%	3
10%	2
5%	1
0%	0
-5%	-1
-10%	-2
-15%	-3
-20%	-4
-25%	-5

The procedure to enter this mode is the following:

- Press buttons  and  at the same time for 5 seconds until you hear 3 beeps.
- The display shows the current setting.
- Adjust with the buttons  = (increase) and  = (decrease).
- Press the  button to save new settings and return to normal mode.

| Adjusting of brewing time

ADJUST	DISPLAY
25%	5
20%	4
15%	3
10%	2
5%	1
0%	0
-5%	-1
-10%	-2
-15%	-3
-20%	-4
-25%	-5

In this mode the time for the brewing done buzzer activation can be adjusted. The procedure to enter this mode is the following:

- Press buttons  and  at the same time for 5 seconds until you hear 5 beeps.
- The display shows the current setting.
- Adjust with the buttons  = (increase) and  = (decrease).
- Press the  button to save new settings and return to normal mode.

Note The brewing time is the same regardless adjustment of the outlet valve time.

Cater

Select machine type

In this mode the machine type can be chosen. The procedure to enter this mode is the following:

- Press buttons  ,  and  at the same time before turning the mains switch on until you hear 6 beeps.
- The display shows the machine type.
- Step up with button  and step down with button .
- Press the  button to save new setting and return to normal mode.

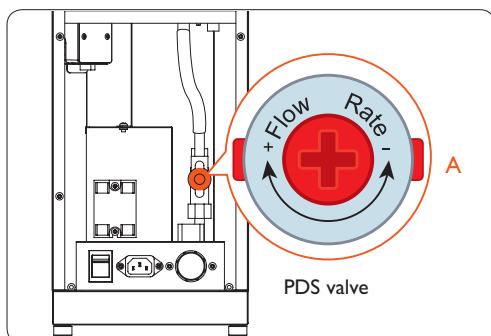
Machine type	Display	Outlet time (s)		Buzzer time (s)
		Half	Full	
1.8L	T1	56	113	90
2.5L	T2	79	158	90

Adjusting of flow water



IMPORTANT!

From date 091001 Cater is delivered with an adjustable PDS valve. This is to improve the water flow into filter holder. The flow of PDS valve is set to 0.95 litre /minute. Depending on the coarseness and amount of coffee that's used when brewing, the flow might need adjustments to prevent overflow in the filter holder.



- Check the water flow.
- This should be 0.95L/minute.
- Adjust PDS valve if necessary.
(See fig.A)

Shall been done by an authorized installation engineer

Cater

Test functions



- Press buttons and at the same time before turning the mains switch on, puts the control board into test mode for time and temperature controlled machines.
- For the other types pressing buttons and before power-on results in test mode.
- A test sequence starts:
 - Turn all outputs off
 - Turn V_WATER on for 3 s
 - Turn V_OUT_A on for 3 s
 - Turn HEAT on for 3 s
 - Turn buzzer on for 2 s
 - Show NTC temperature on displayed
 - If button is pressed display
 - If button is pressed display
 - If button is pressed display
 - If LVL_SAFE is passive display
 - If LVL_REF is passive display

Tower

Normal operation with reduced outlet time

- This mode is entered by pressing  and  before turning the mains switch on. The buzzer gives a 5s beep to indicate this mode.
- This machine operates like in normal mode but the outlet times are reduced by 90% in order to allow faster adjustment of valve times.

Adjusting of temperature sensor

ADJUST	DISPLAY
+5°C	5
+4°C	4
+3°C	3
+2°C	2
+1°C	1
0	0
-1°C	-1
-2°C	-2
-3°C	-3
-4°C	-4
-5°C	-5

In this mode a temperature offset for the NTC sensor can be adjusted. The procedure to enter this mode is the following:

- Press buttons ,  and  at the same time for 5 seconds until you hear 2 beeps.
- The display shows the current setting.
- Adjust with the buttons  = (increase) and  = (decrease).
- Pressing the  button to save new settings and return to normal mode.

Select machine type

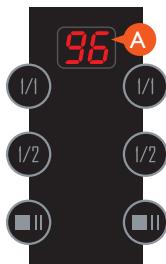
In this mode the machine type can be chosen. The procedure to enter this mode is the following:

- Press buttons ,  and  at the same time before turning the mains switch on until you hear 6 beeps.
- The display shows the machine type.
- Step up with button  and step down with button .
- Press the  button to save new setting and return to normal mode.

MACHINETYPE	DISPLAY	OUTLETTIME (s)		BUZZERTIME(s)
		HALF	FULL	
10L	T1	300	600	300
5L	T2	150	300	300

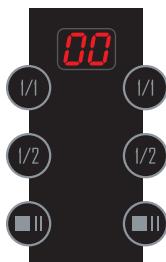
Tower

| Adjusting water temperature



- Press left buttons and at the same time for 5 seconds until you hear 1 beep. Display shows the present setting(A).
- Adjust with the left buttons (increase water temp.) and (decrease water temp.)
- Confirm the new settings by pressing the left button once.
70 °C = min. temperature.
96 °C = max. temperature.

| Adjusting water quantity



ADJUST	DISPLAY
25%	5
20%	4
15%	3
10%	2
5%	1
0%	0
-5%	-1
-10%	-2
-15%	-3
-20%	-4
-25%	-5

For left side

- Press left buttons and at the same time for 5 seconds until you hear 3 beeps. the display shows the current setting.
- Adjust with the left buttons (increase) and (decrease)
- Confirm the new settings by pressing the left button once.

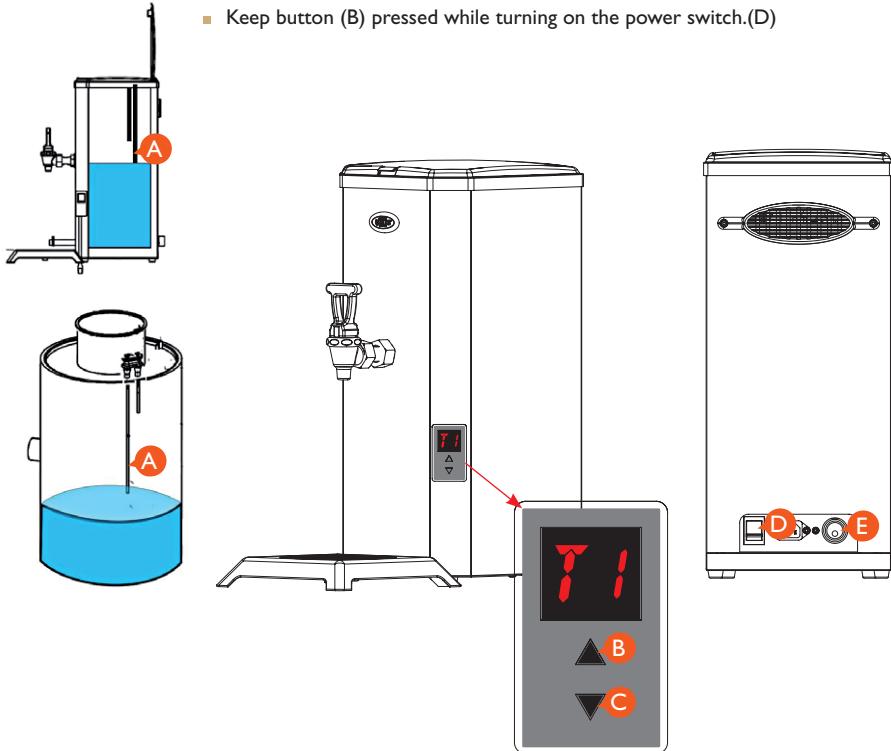
For right side

- Press right buttons and at the same time for 5 seconds until you hear 3 beeps. the display shows the current setting.
- Adjust with the right buttons (increase) and (decrease)
- Confirm the new settings by pressing the right button once.

HVA/HVM

Select machine type

- Use a decanter to fill up the water tank to the long sensor pin.(A)
- Keep button (B) pressed while turning on the power switch.(D)



- The display will show T1, change the type of machine with buttons (B) or (C).
T1 = HVA automatic
T2 = HVM manual
- Confirm the choice by holding down the buttons (B) and (C) at the same time for approximately 5 seconds.

Note

Install the plug supplied in the inlet valve (E) to avoid possible leakage.

Grinder Original

Normal operation



There are several sub modes for this mode:

■ READY

The machine is in this mode after power on. The motor is off and timers are stopped.

Pressing the button and changes the number of cups to be prepared. The number of cups is displayed on the 2 digit display. The range is 4 -34 cups. The latest number of cups will be used even after power cycling the machine.

Pushing the button to start the motor timer (number of cups x time per cup) and activates the motor V_MOTOR and moves the machine into GRINDING mode.

■ GRINDING

The display is blinking at 0.5 Hz. The timer is checked. After the motor time has expired the the motor is turned off. Pushing the button again pauses the timer, deactivates the motor and moves into PAUSED mode. If button is pressed more than 5 s the machine moves to READY mode.

■ PAUSED

The displays is blinking at 2 HZ. If the button is pressed again a beep signals the recognition of the button press and the machine moves back to GRINDING mode after 2 s unless the is still pressed and keeps pressed more than 5 s which moves the machine to READY mode.

A djust time per cup

TIME/CUP	DISPLAY	
	Digit 1	Digit 2
1.0	1	0
...
9.9	9	9

In this mode the time for the motor activation per selected number of cups can be adjusted. The procedure to enter this mode is the following:

- Press buttons and for 5 seconds until you hear 3 beeps.
- The display shows the current setting.
- Increase inlet valve time with and decrease with .
- Press to save new settings and return to normal mode.
- The adjustment is made in 0.1 s steps. The range is 1.0 to 9.9 s per cup.
- The time per cup is saved permanently.

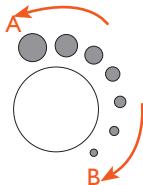
Grinder Original

Adjust coffee amount



- Press buttons and simultaneously for 6 seconds.
 - The display (A) shows the current time setting for grinding.
 - You can now choose to increase or decrease the time $15 = 1.5$ seconds for grinding, by pressing the buttons or .
- This means that you increase or decrease the amount of coffee grounds.

Adjust coffee grind



- The grinding degree is preset from the factory.
- Push the knob and turn counterclockwise (A) for coarser grind or clockwise (B) for finer grinding.

Testing

- Pressing the and buttons before turning the mains switch on puts the control board into test mode.
- A test sequence starts:

- Turn all outputs off
- Turn V_MOTOR on for 3 s
- Turn buzzer on for 2 s

- If button is pressed display

- If button is pressed display

- If button is pressed display

Original A/M

Fault and solution



IMPORTANT!

All maintenance and installations must be done of an authorized technician.

FAULT	POSSIBLE SOLUTION
Power switch does not lit	<ul style="list-style-type: none"> - Check plug connection to wall socket. - Check fuse in plug. - Check if hot plate becomes warm, if so replace power switch.
Hot plate does not become warm although switch is lit.	<ul style="list-style-type: none"> - Check connection to hot plate. - If hot plate is defective, replace.
Brewer excess steam.	<ul style="list-style-type: none"> - Machine may require descaling. - Spray nozzle may need unblocking. - Hose may be bent. - Inlet to boiler may be blocked. Descale machine - if boiler still defective - replace.
Machine will not brew.	<ul style="list-style-type: none"> - Check overheating protection. - Check microswitch. - Check connection to boiler. - Boiler unit may need replacing.
The machine does not take in water	<ul style="list-style-type: none"> - Make sure water tap is open. - Make sure the water hose is not bent. - Check inlet valve. - Check that the display is blinking.
The machines does not stop taking in water.	<ul style="list-style-type: none"> - Dirt in the inlet valve. - inlet valve is defective - replace - PCB is defective - replace
The machine is giving wrong amount of water.	<ul style="list-style-type: none"> - Check water tap. - Water hose is bent. - Dirt in inlet valve. -Water amount adjustment set in display is adjusted faulty. Adjust according to page 21. - Defect floatregulator in inlet valve - replace

Cater,Tower, HVA/HVM

Fault and solution

LEVEL CONTROL

Remove the power cord from the wall socket during any installation work.



IMPORTANT!

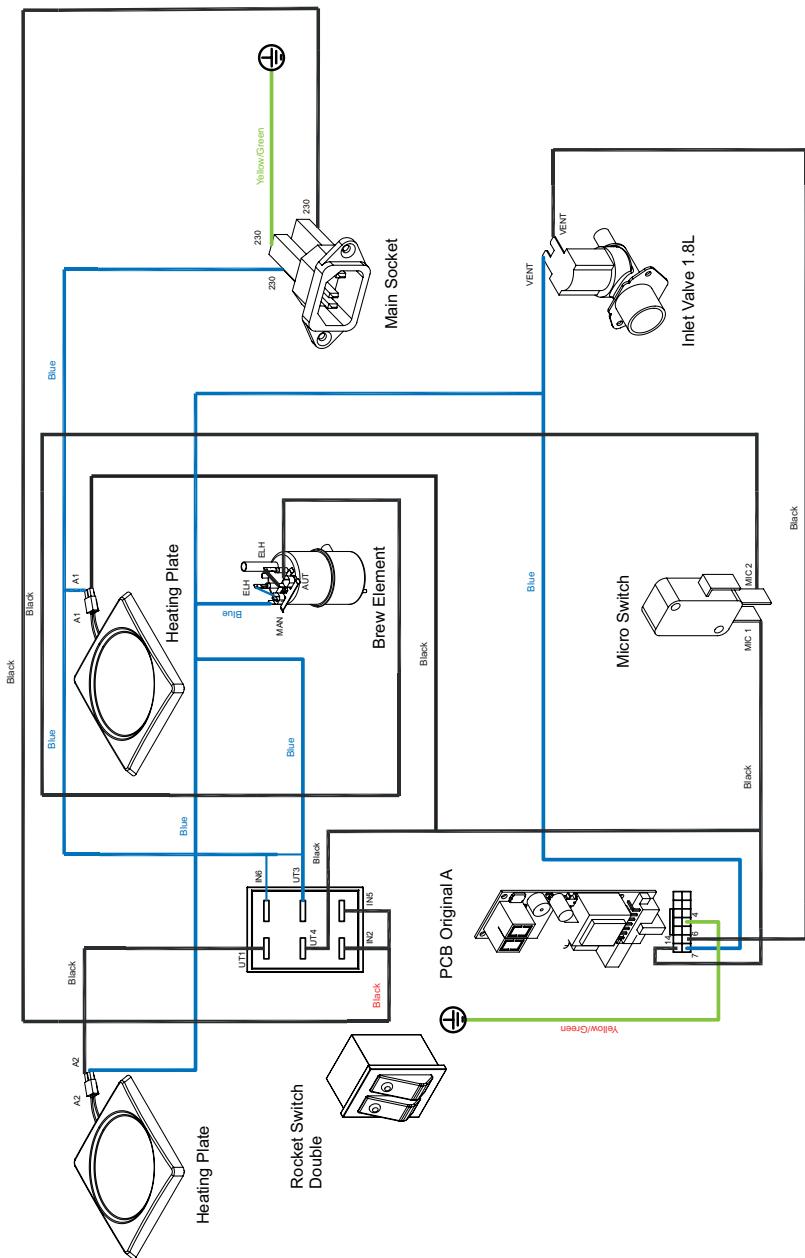
All maintenance and installations must be done of an authorized technician.

SHOWN ON THE DISPLAY	POSSIBLE FAULT	POSSIBLE SOLUTION
	- The high water level sensor is triggered before the low level sensor.	- Clean the level sensor. - Replace. - Cables connected is incorrectly.
	- The machine fills slowly. - Poor water pressure. - Water connection tap is not open	- Check water connection. - Restart machine.

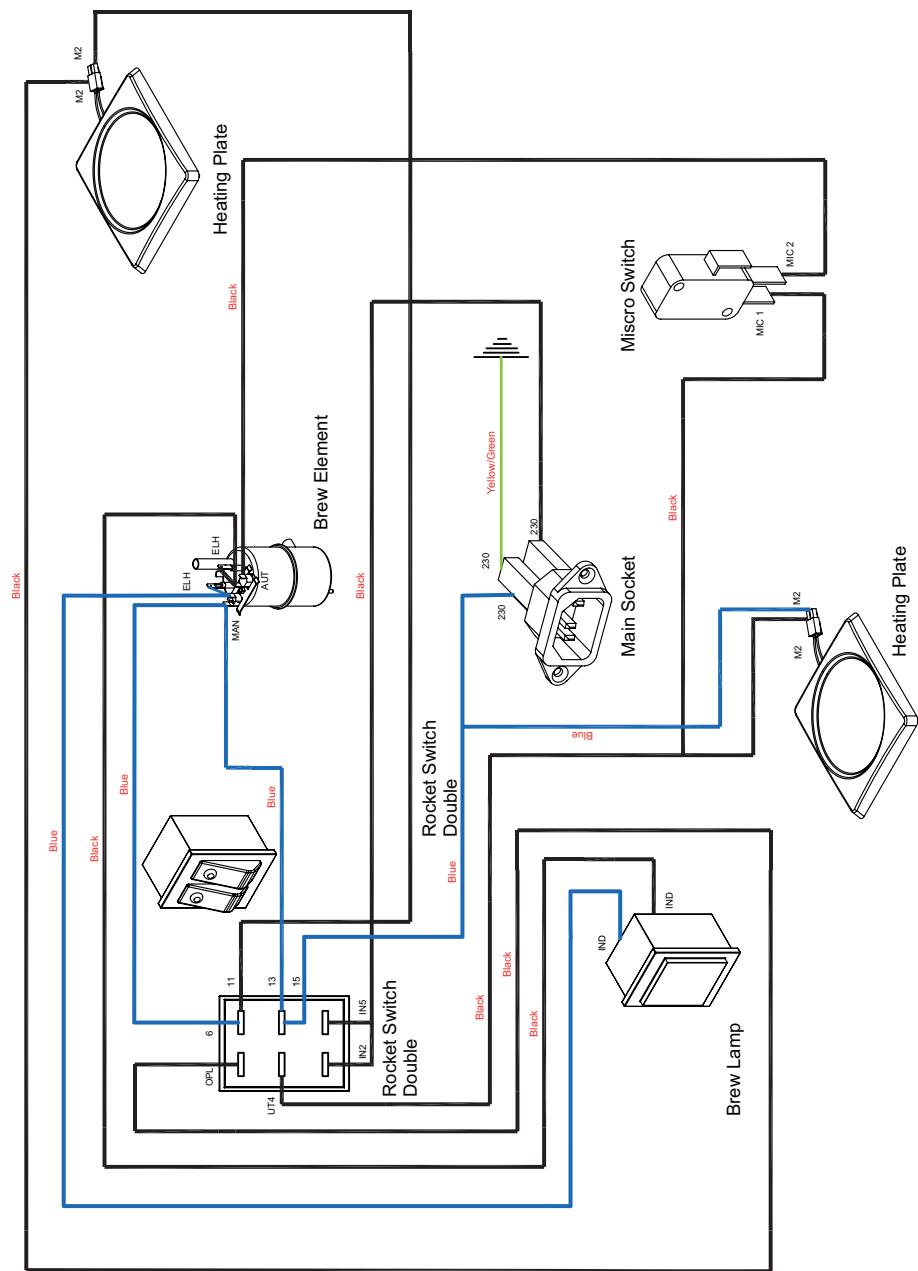
TEMPERATURE CONTROL

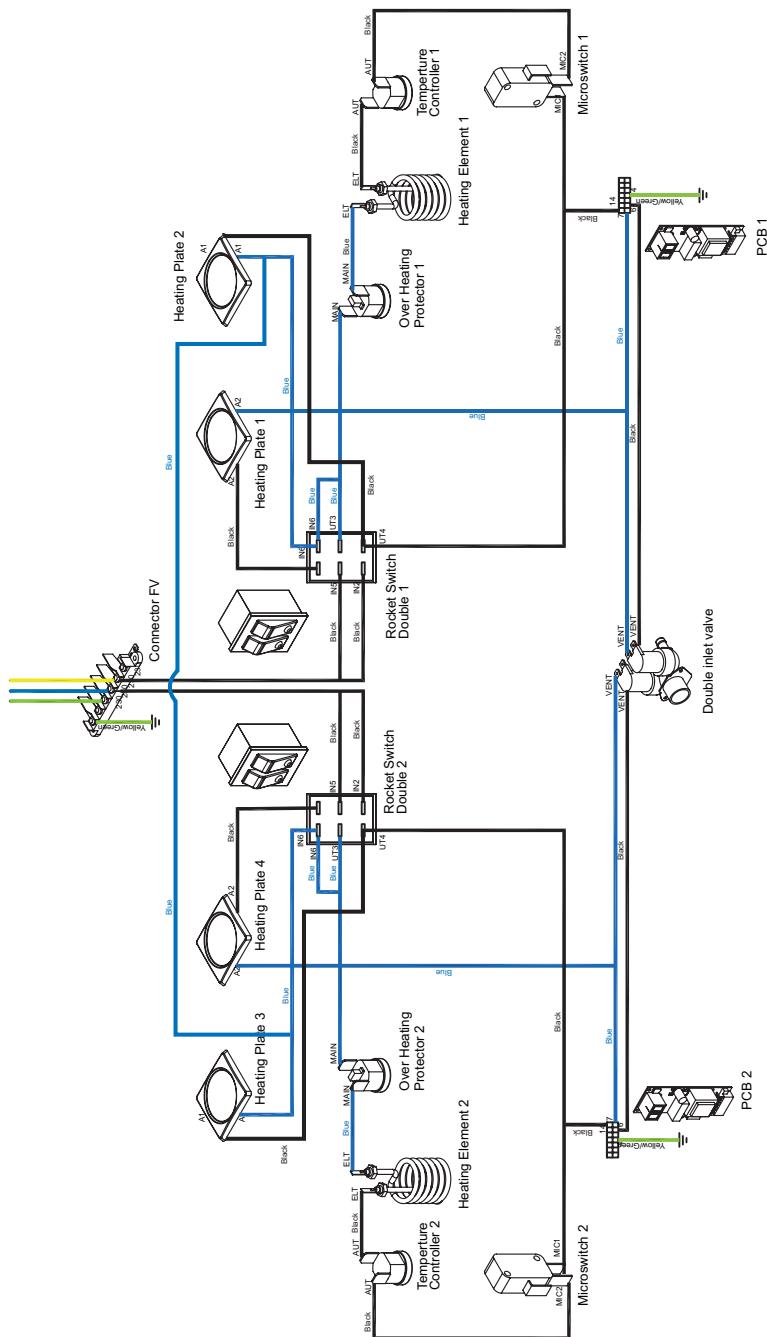
SHOWN ON THE DISPLAY	POSSIBLE FAULT	POSSIBLE SOLUTION
	- Temperature sensor out of range. - Temperature sensor is broken. - Cable loose.	- 5°C - 105°C. - Replace temperature sensor. - Check cables.
	- Heating time too long. - Solid state broken. - Element broken. - Overheating guard tripped or broken.	- Restart the machine. - Replace element. - Replace solid state. - Check overheating protection.

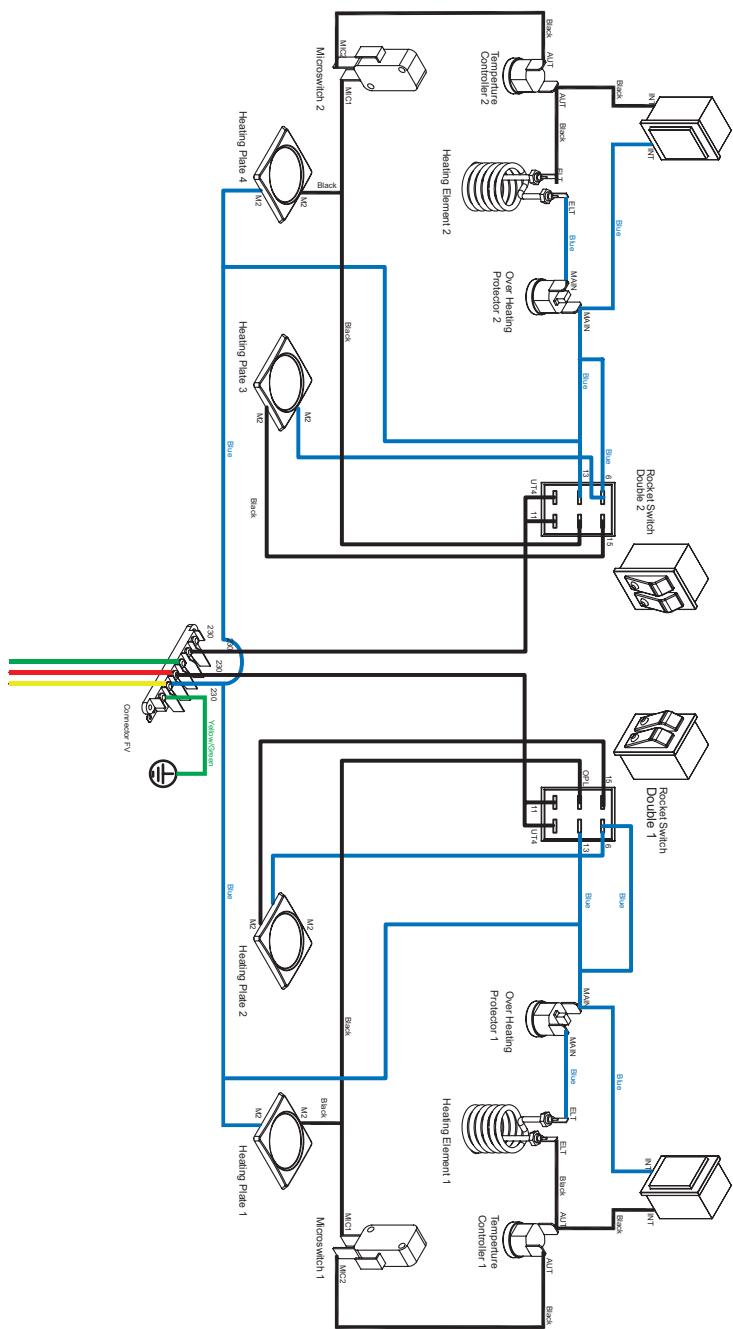
A-2



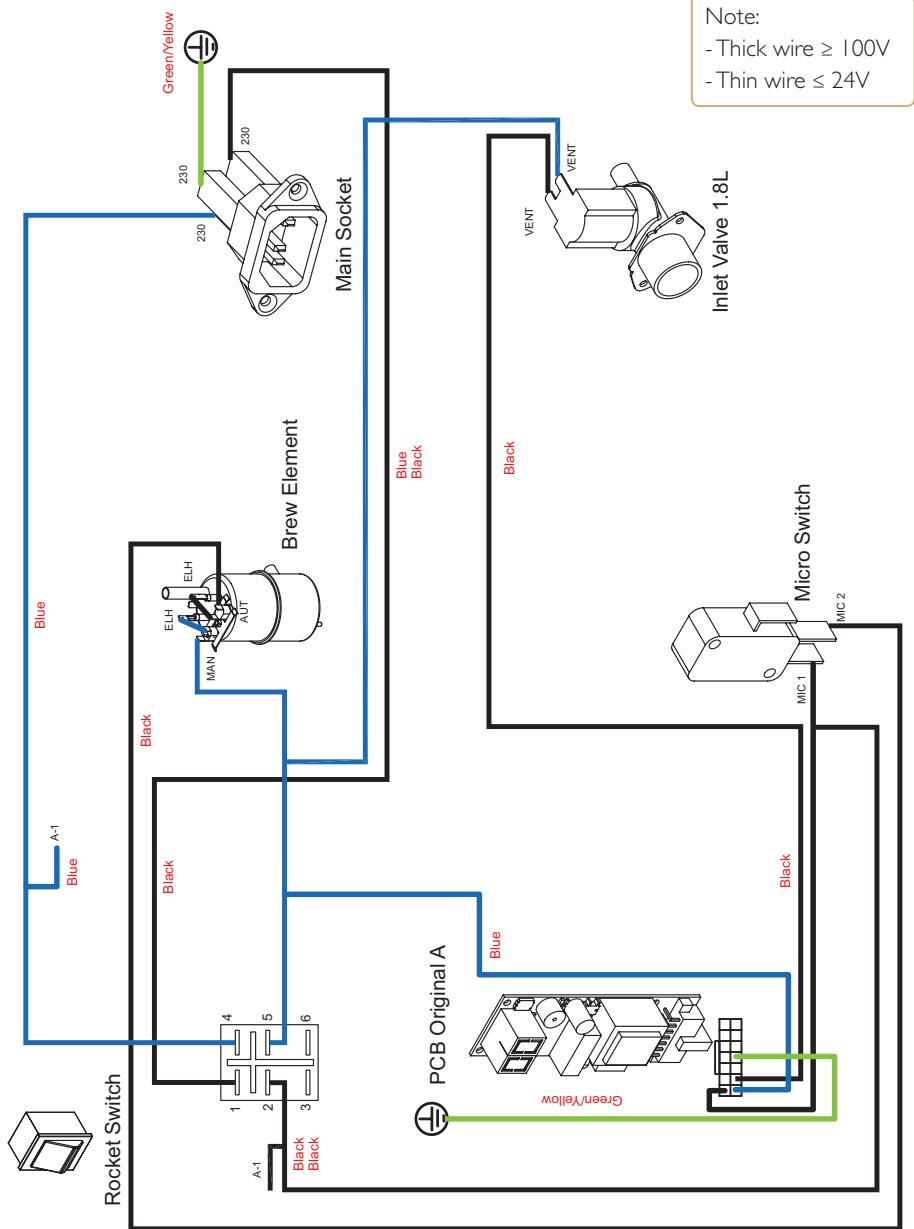
M-2







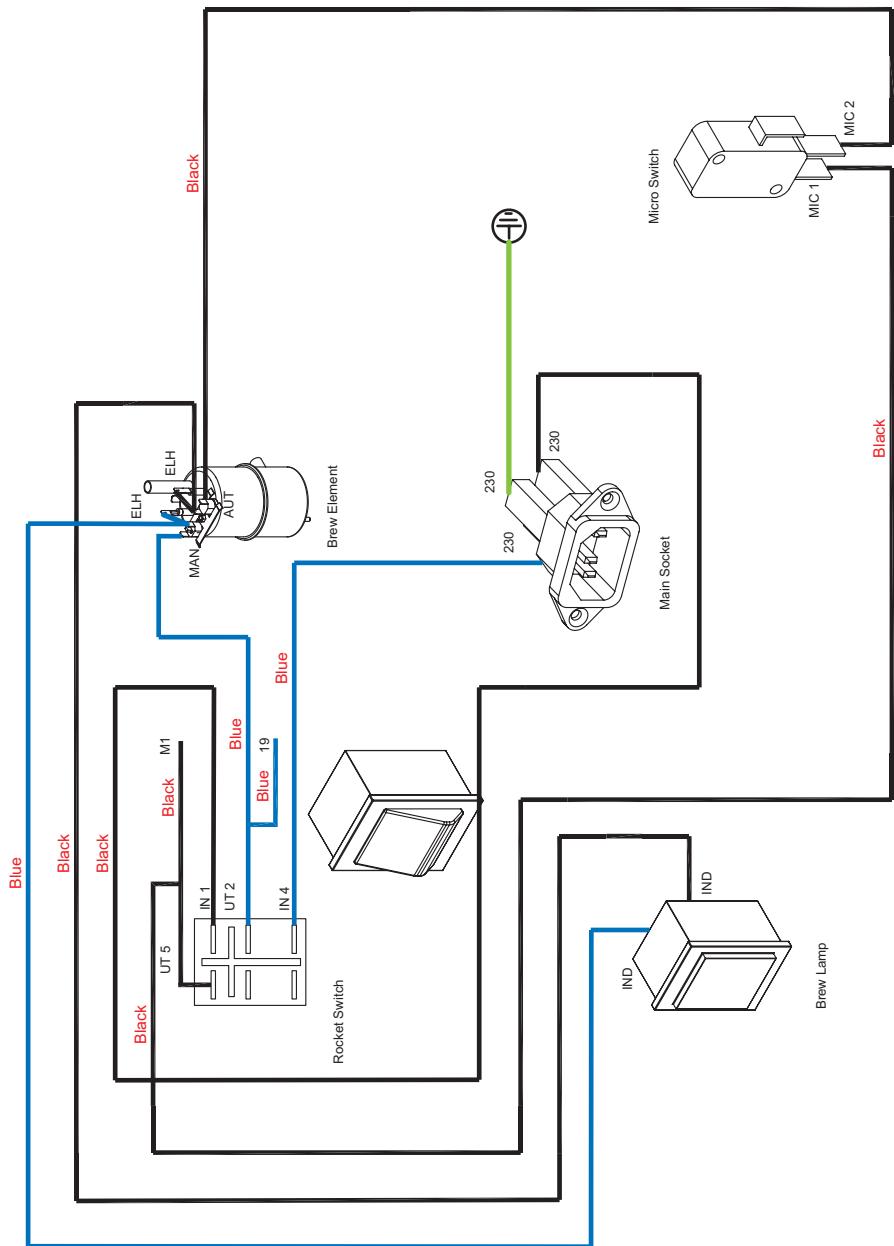
Mega Gold A, Termos A



ELECTRICAL SCHEMATICS

FILTERBREW & SERVING CONCEPT

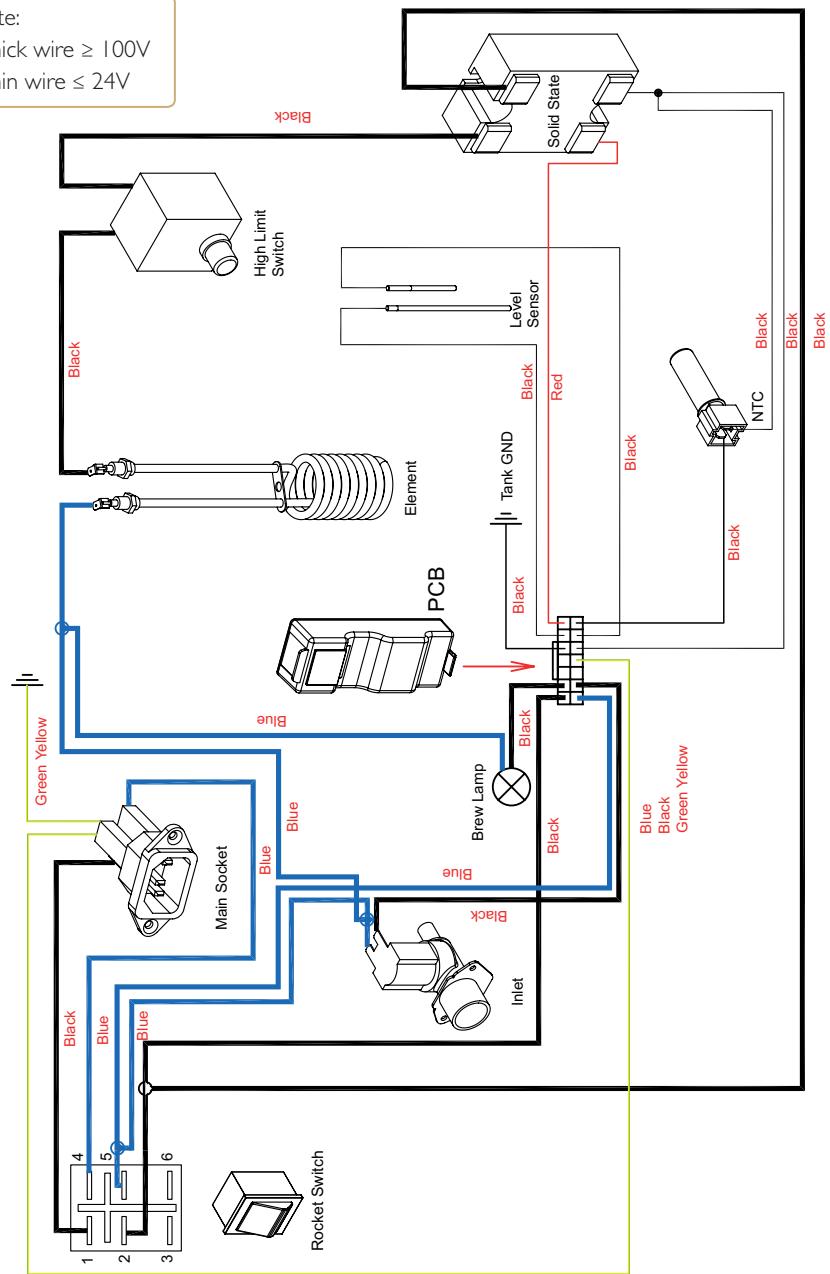
Mega Gold M, Termos M, Office



Single Cater

Note:

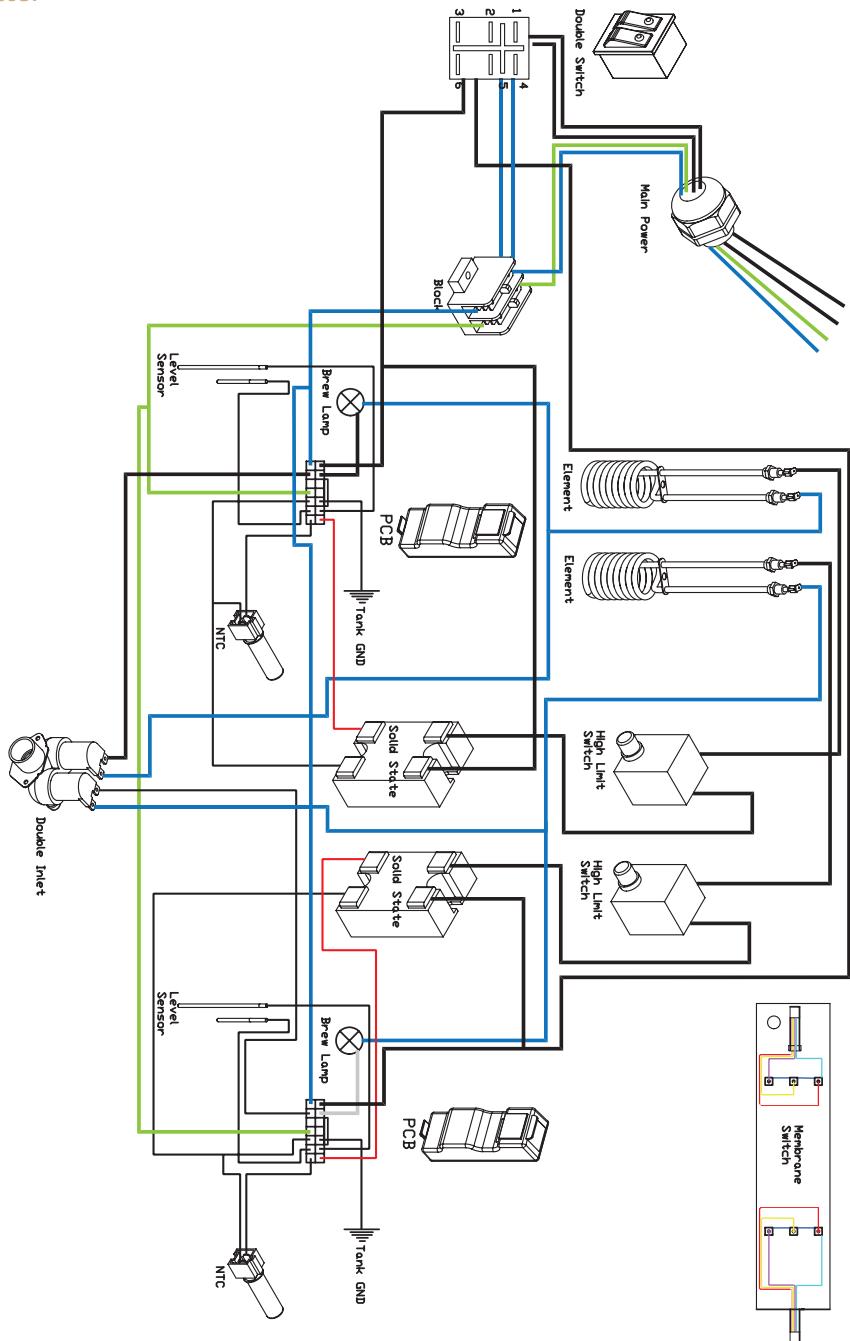
- Thick wire $\geq 100V$
- Thin wire $\leq 24V$



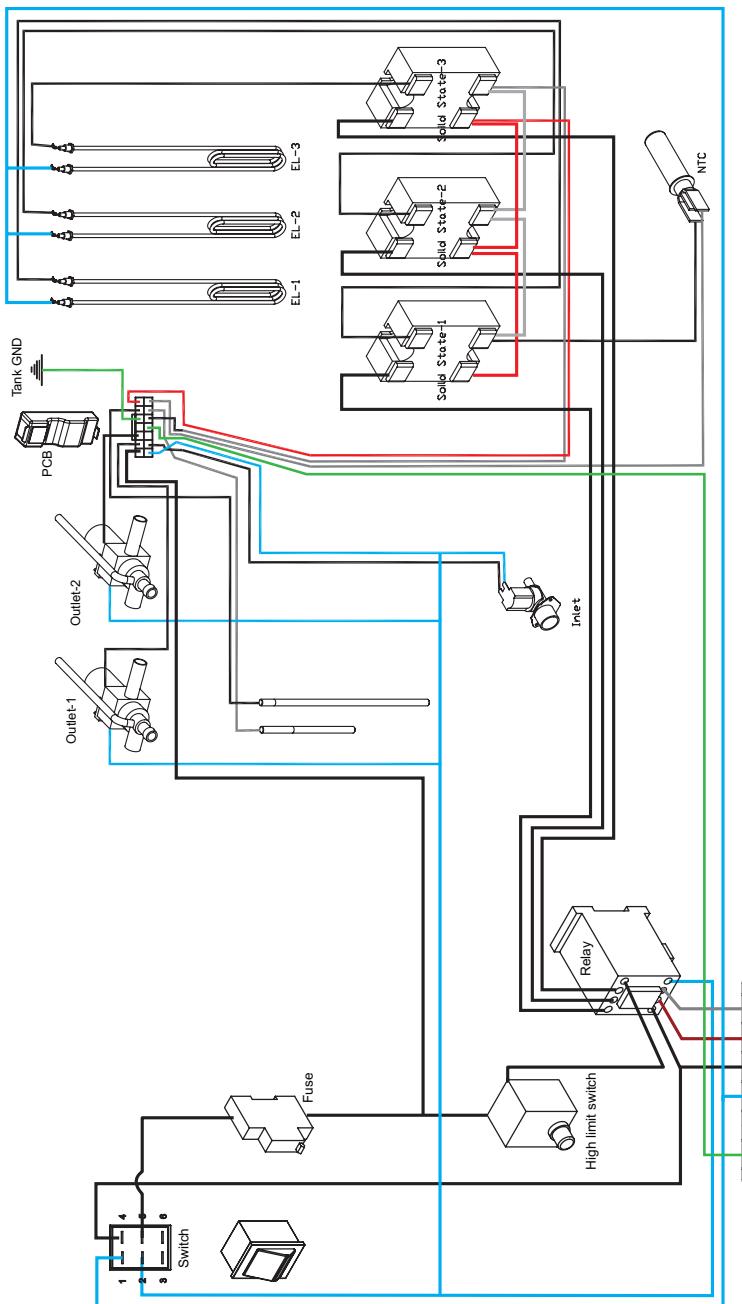
ELECTRICAL SCHEMATICS

FILTERBREW & SERVING CONCEPT

Cater



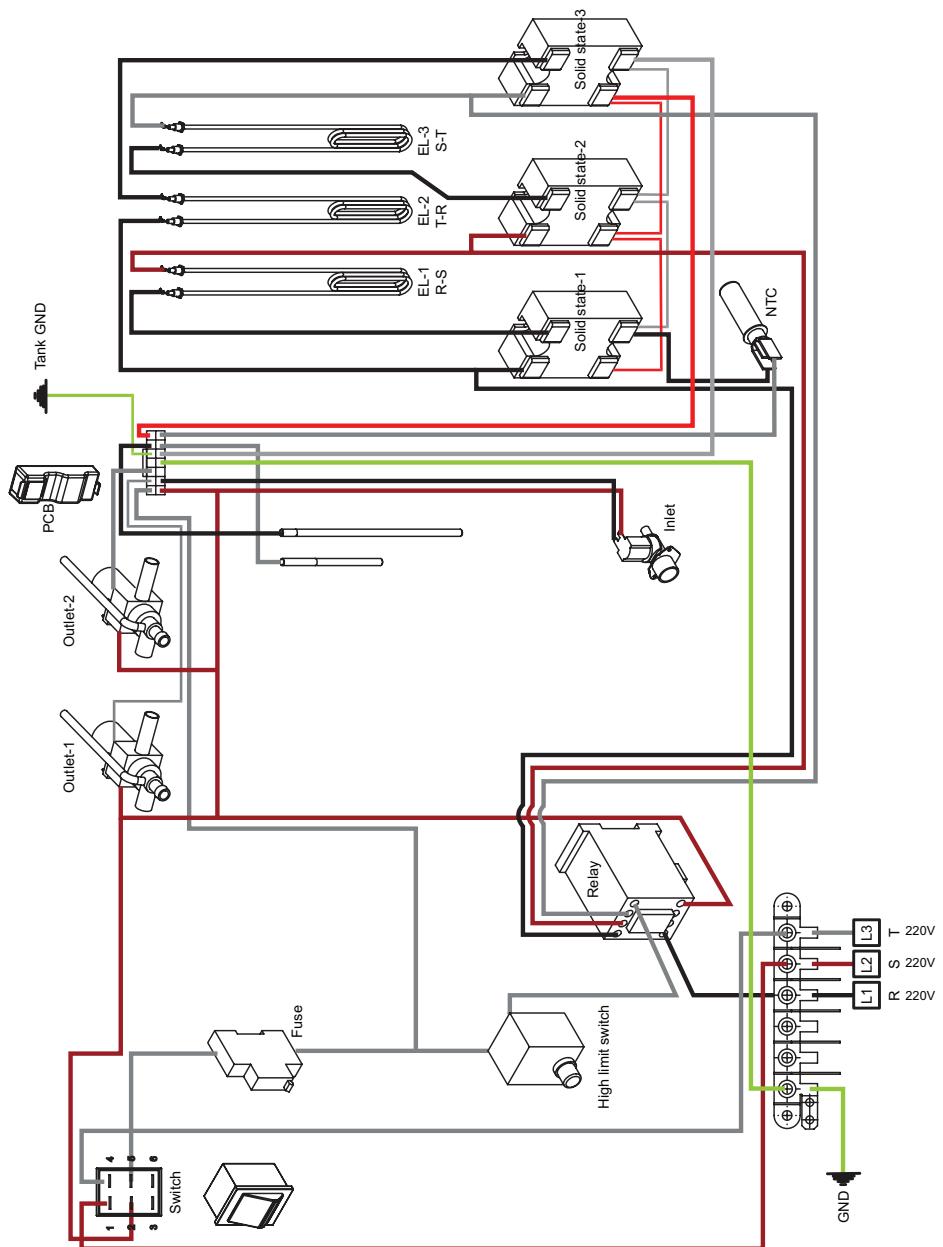
Tower 3x400VAC+Zero+Ground



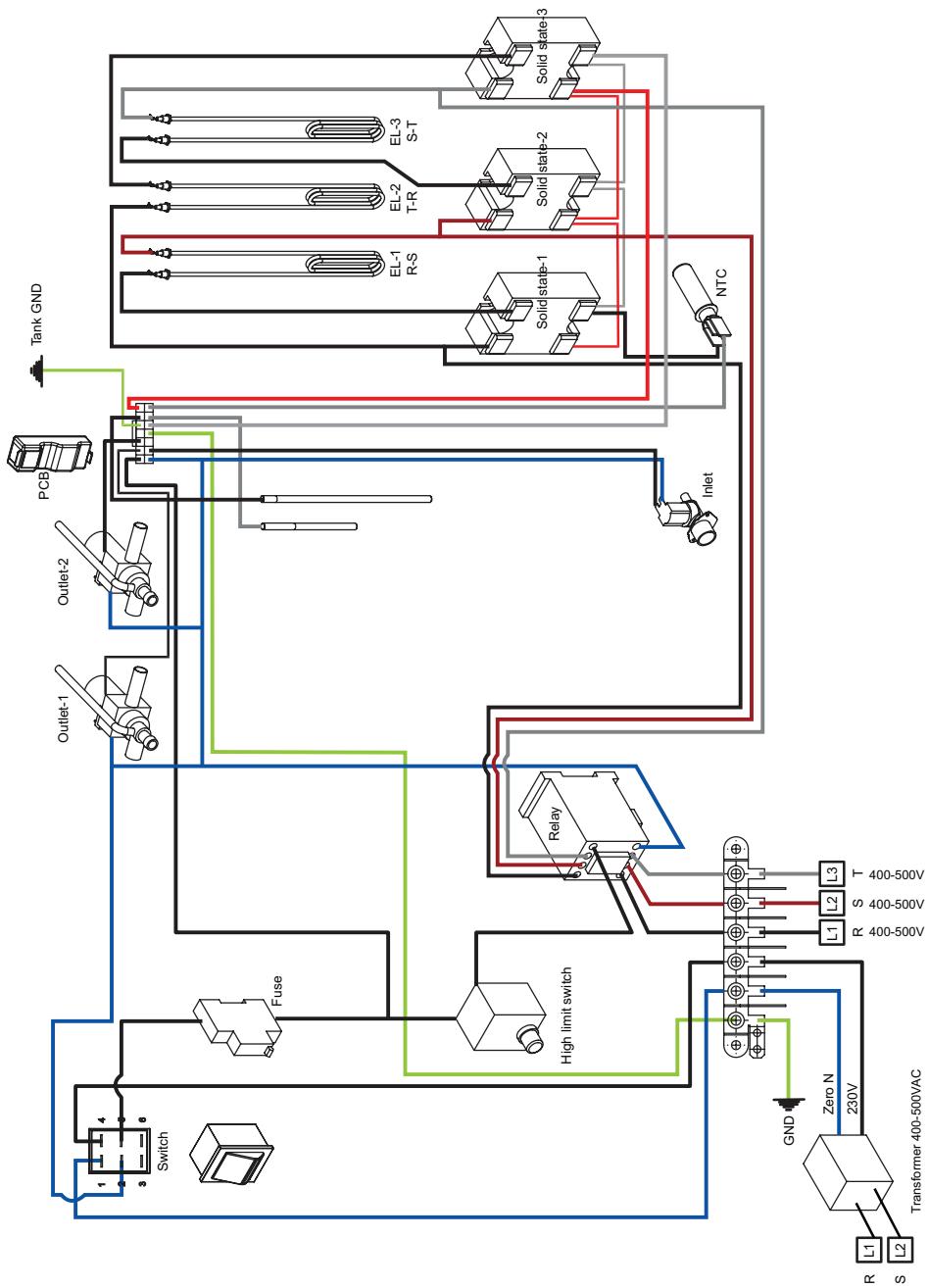
ELECTRICAL SCHEMATICS

FILTERBREW & SERVING CONCEPT

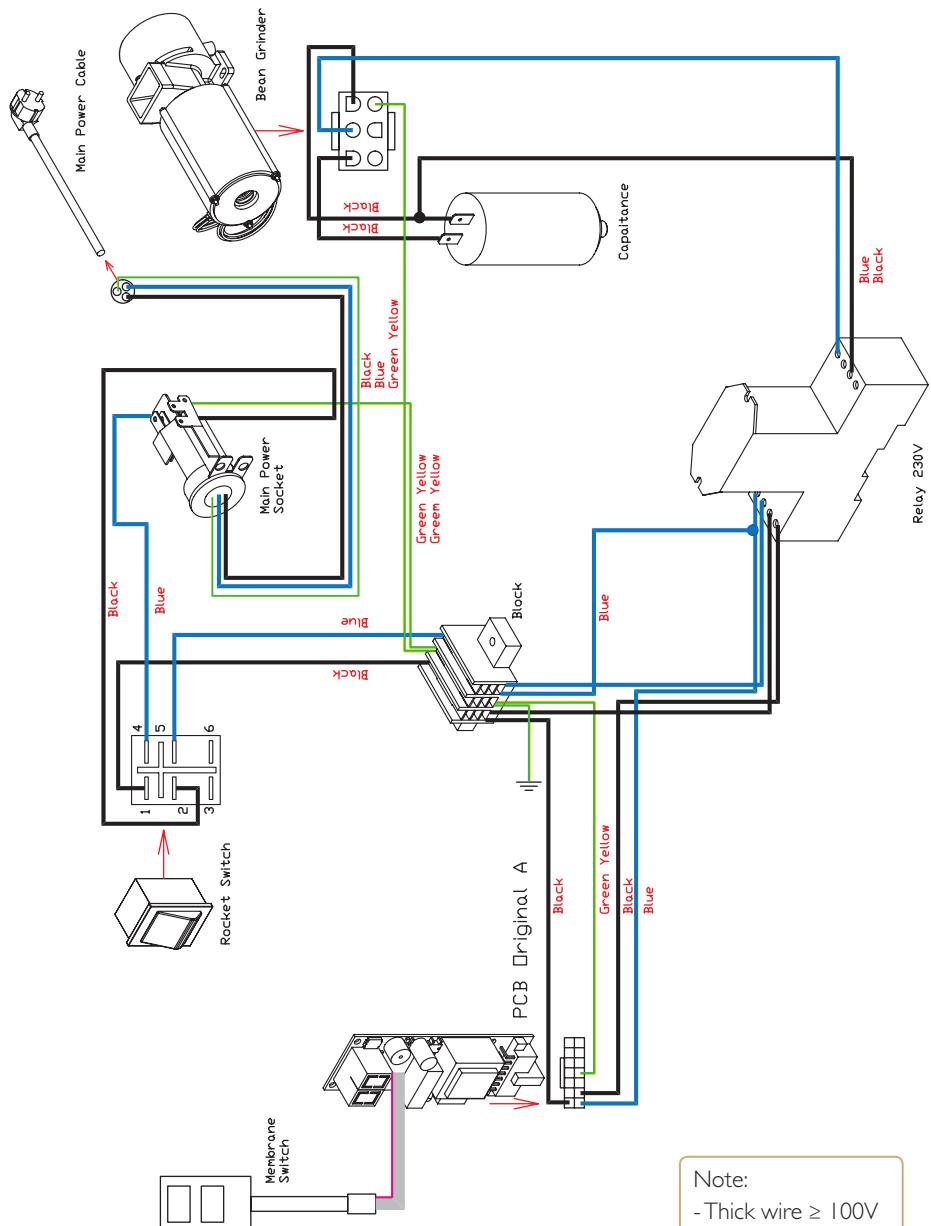
Tower 3x230VAC+Ground



Tower 3x400-500VAC+Ground



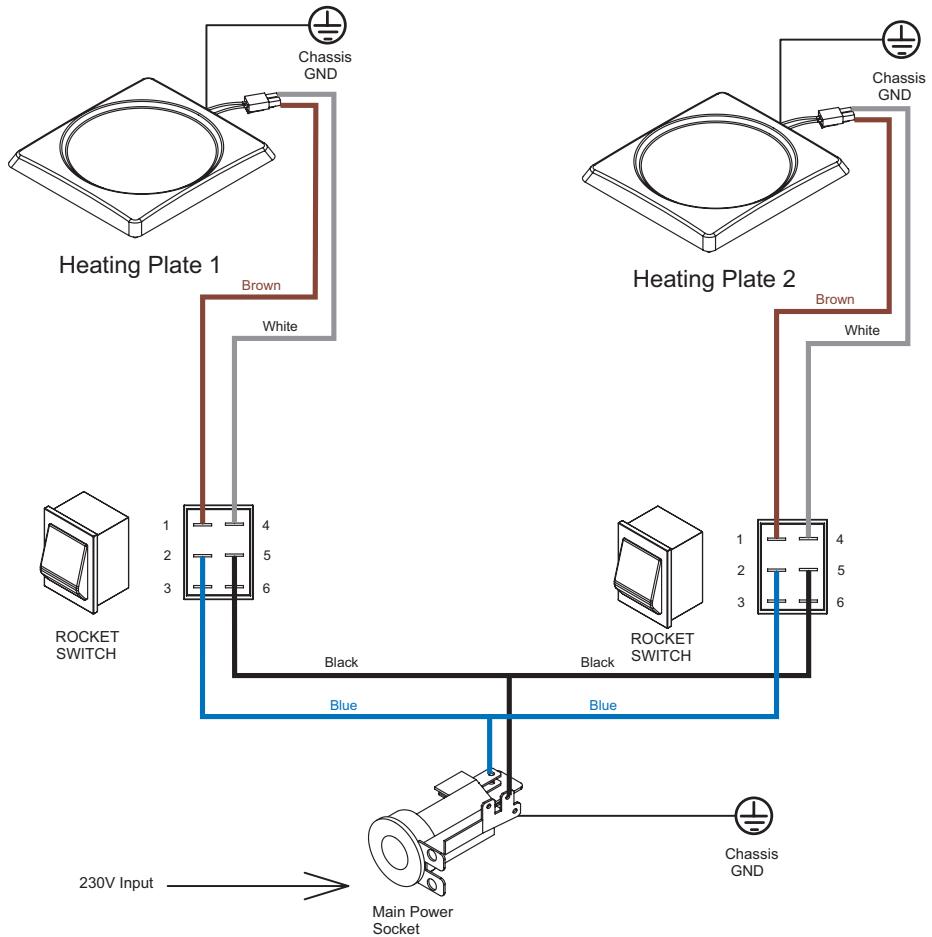
Grinder Original



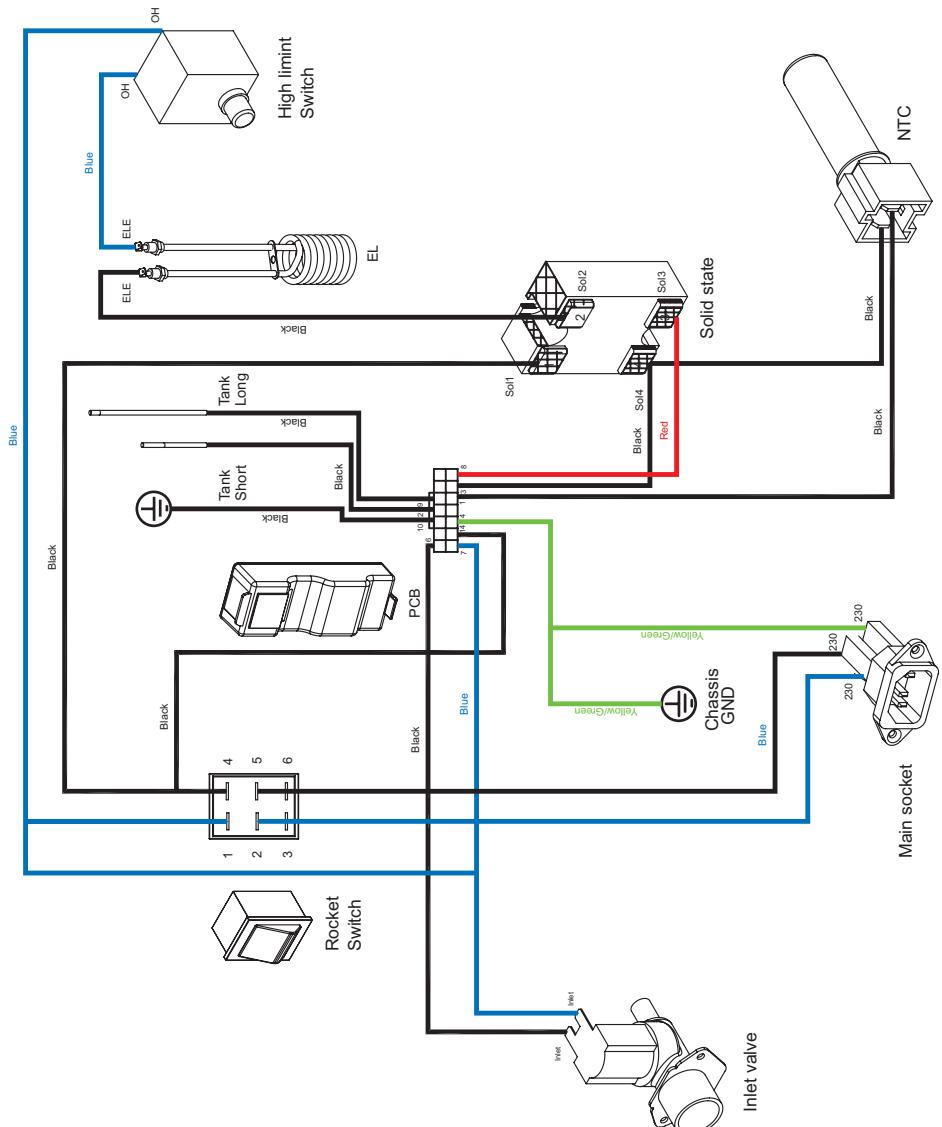
Note:

- Thick wire $\geq 100V$
- Thin wire $\leq 24V$

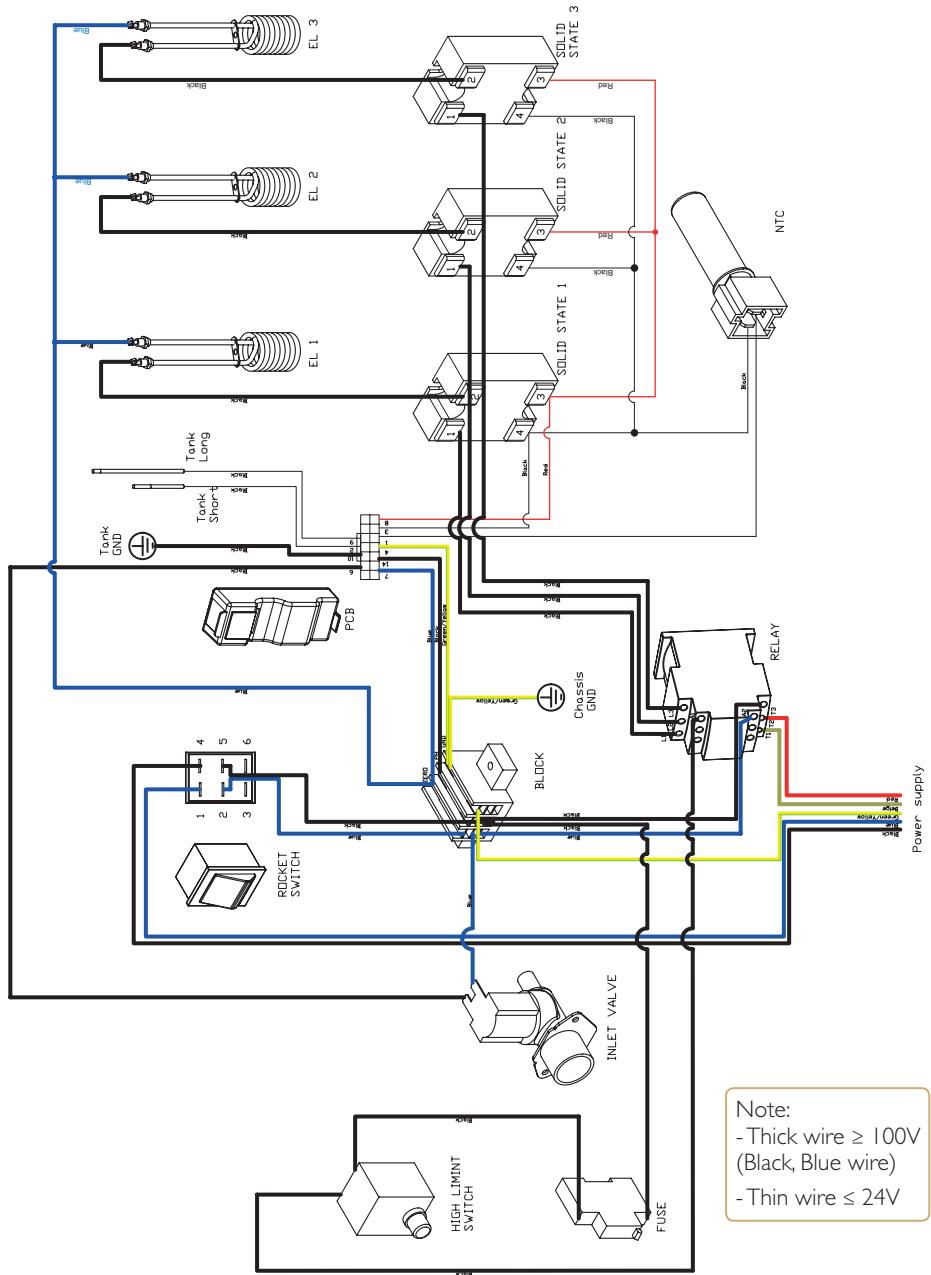
V-2



HVA/HVM I-Phase



HVA/HVM 3-Phase



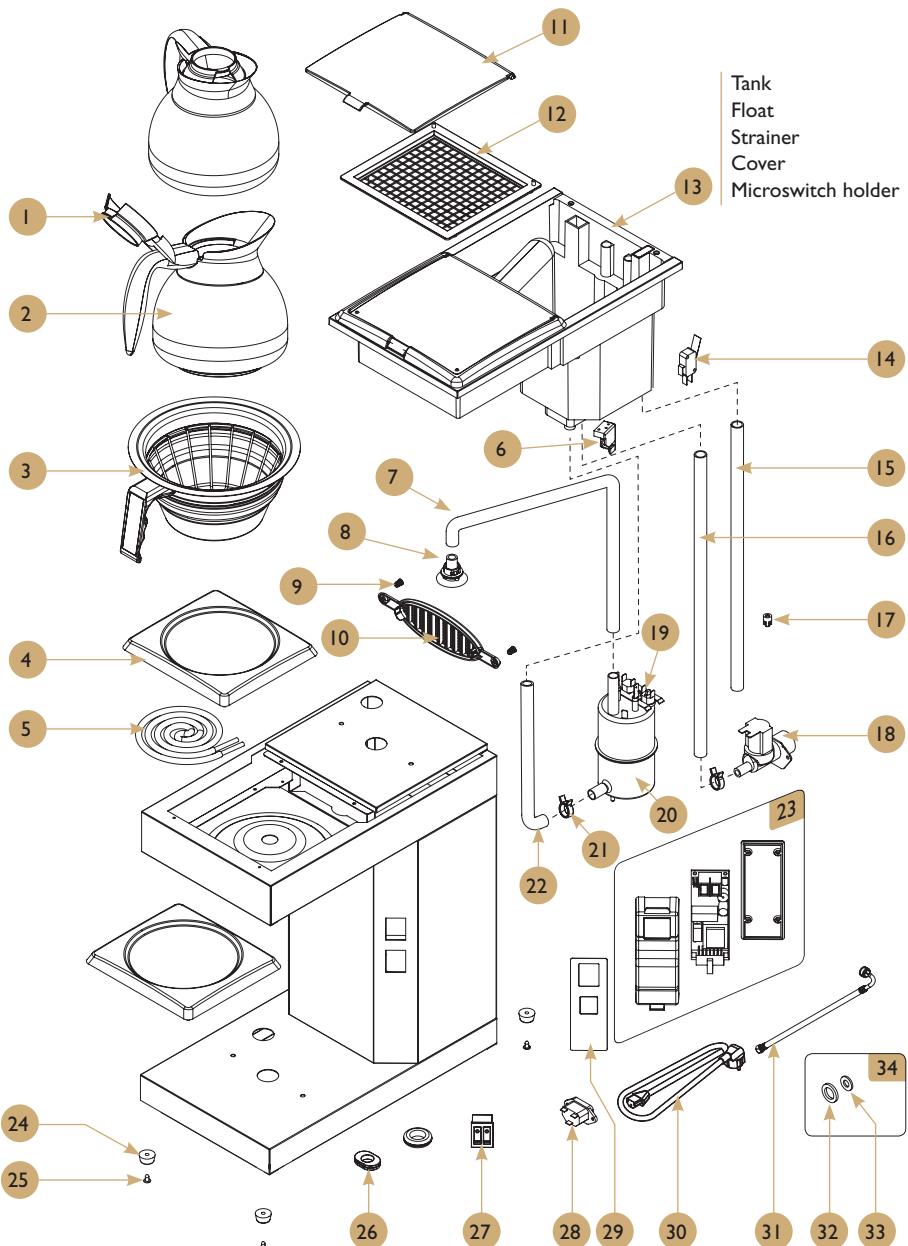
Note:
 - Thick wire $\geq 100V$
 (Black, Blue wire)
 - Thin wire $\leq 24V$

EXPLODED VIEW

FILTERBREW & SERVING CONCEPT

A-2

■ Drawing



A-2

Spare parts list

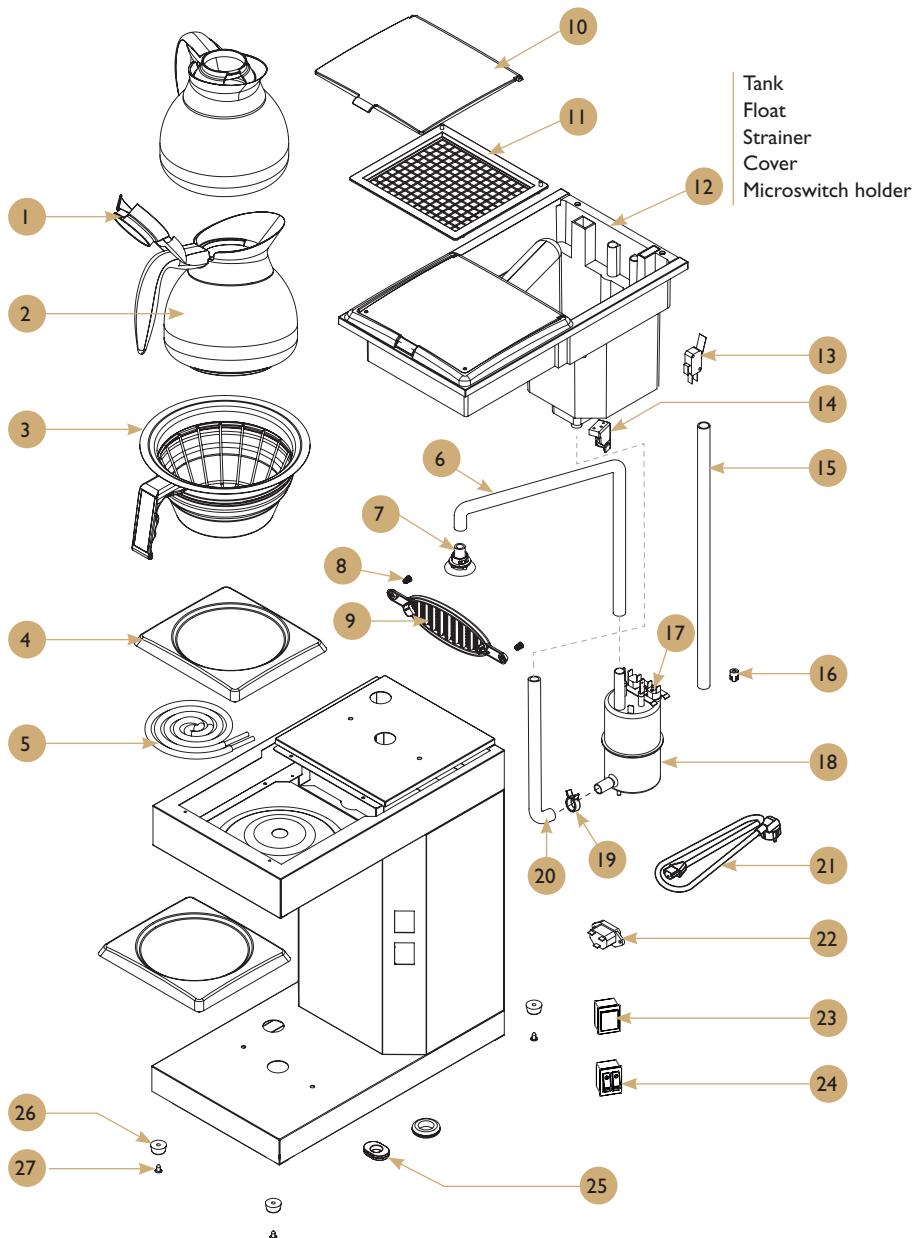
POS.	PCS	Part No.	Description
1	1	I20433	Lid, Glass decanter
2	2	I10001	Decanter CQ glass
3	1	I102016	Brew basket 1.8L 90 mm
4	2	I20811 (230V)	Warming plate 230V/95W
4	2	I20812I (110V)	Warming plate 110V/95W
5	1	I60101	Heat coil 95W
6	1	I204014	Microswitch holder
7	1	I50504I	Hot water hose 1.8L
8	1	I204016	Spray nozzle for water tank
9	2	I402150	Screw T20,M4X8mm
10	1	I20422	Air inlet plastic 1.8L
11	1	I204012	Lid of tank original
12	1	I204013	Strainer original
13	1	I204015	Water tank complete 1.8L
14	1	I60821 (230V)	Micro switch tank 1.8L
14	1	I60822I (110V)	Micro switch 125V
15	1	I561036	Drainage hose 1.8L
16	1	I505022	Inlet hose 400mm
17	1	I206123	Non return valve 1.8L
18	1	I20620-01 (230V)	Valve inlet single 1.8L
18	1	I20617 (110V)	Inlet coil 110V
19	1	I60212-03	Over heating protection
20	1	I205101 (230V)	Brewing element 230V/2200W
20	1	I20505 (110V)	Brewing element 110V/1600W
21	1	I40339	Clip for hose 16.4mm
22	1	I50502I	Silicon hose cold W 1.8L
23	1	I031640 (230V)	Electronic unit PCB Original
23	1	I031643 (110V)	Electronic unit PCB Original 110V
24	4	I20320	Rubber feet V2
25	1	I402163	Screw M4X8mm
26	1	I505063	Bottom rubber TPE
27	1	I60802-04	Rocker switch double
28	1	I60570	Power cord inlet/Main socket
29	1	I603854	Membran switch orig A
30	1	I60565	Main supply cable / Europe
31	1	I505042	Inlet hose 3/4"-1/2"
32	1	I26416I	Gasket DIA23.5mm x 15mm D3mm
33	1	I264160	Gasket DIA18mm x 9mm D2mm
34	1	2760094	Gasket set for inlet hose

EXPLODED VIEW

FILTERBREW & SERVING CONCEPT

M-2

■ Drawing



M-2

Spare parts list

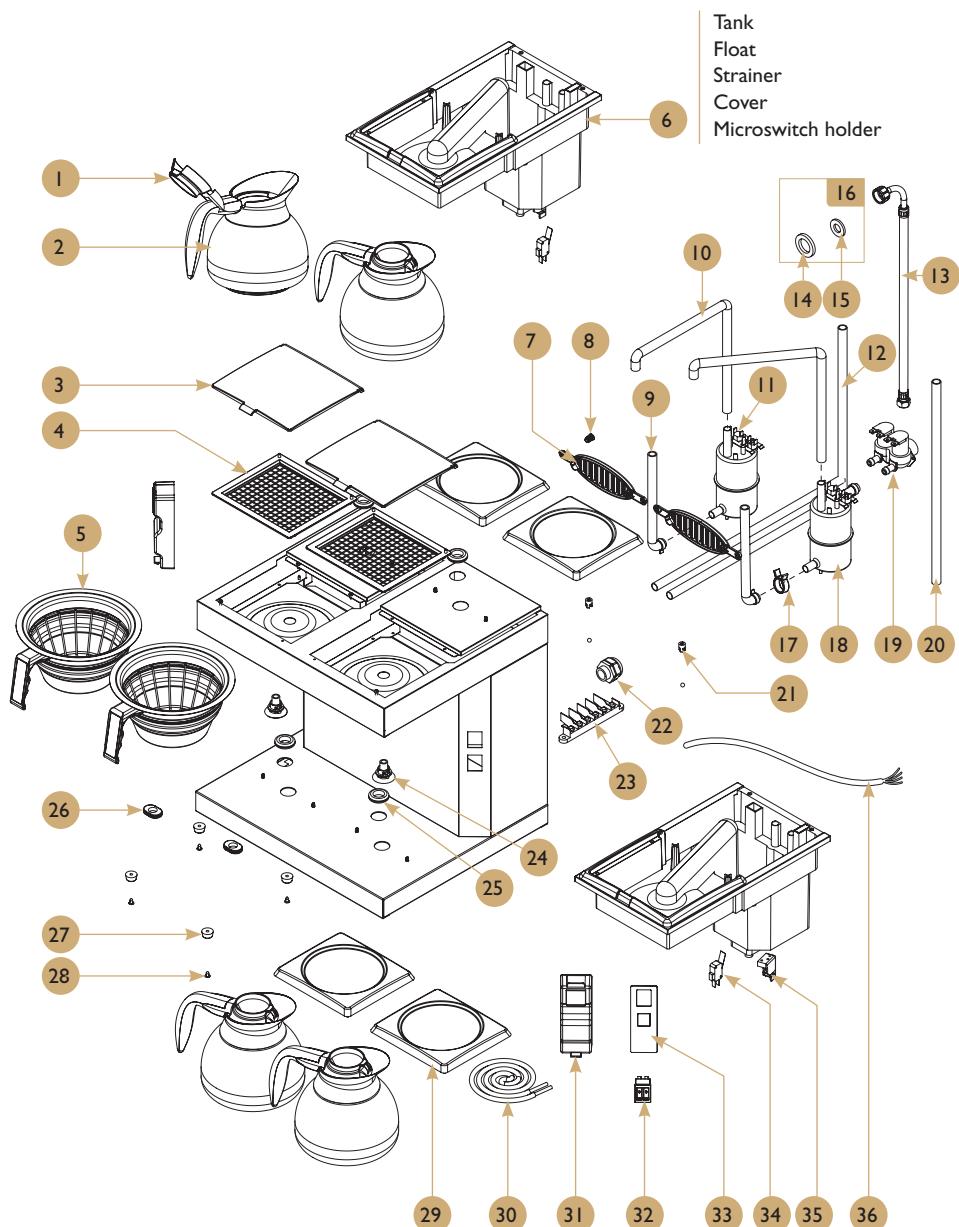
POS.	PCS	Part No.	Description
1	1	I20433	Lid, Glass decanter
2	2	I10001	Decanter glass
3	1	I102016	Brew basket 1.8L 90 mm
4	2	I20811 (230V)	Warming plate 230V/95W
4	2	I208121 (110V)	Warming plate 110V/95W
5	1	I60101	Heat coil 95W
6	1	I505041	Silicon hose hot 1.8L
7	1	I204016	Spray nozzle for water tank
8	1	I402150	Screw T20 M 4x8mm
9	1	I20422	Air inlet plastic 1.8L
10	1	I204012	Lid of tank original
11	1	I204013	Strainer original
12	1	I204015	Water tank complete 1.8L
13	1	I60821 (230V)	Micro switch tank 1.8L
13	1	I608221 (110V)	Microswitch 125V
14	1	I204014	Microswitch holder
15	1	I505062	Overflow hose
16	1	I206123	Non return valve
17	1	I60212-03	Over heating protection
18	1	I205101 (230V)	Brewing element 230V/2200W
18	1	I20505 (110V)	Brewing element 110V/1600W
19	4	I40339	Clip for hose 16.4mm
20	1	I031503	Silicon hose cold complete
21	1	I60565	Main supply cable / Europe
22	1	I60570	Power cord inlet/Main socket
23	1	I60804-04	Brewing lamp
24	1	I60802-04	Rocker switch double
25	1	I505063	Rubber bottom TPE
26	4	I20320	Rubber feet V2
27	4	I402163	Screw M4x8

EXPLODED VIEW

FILTERBREW & SERVING CONCEPT

DA-4

Drawing



DA-4

Spare parts list

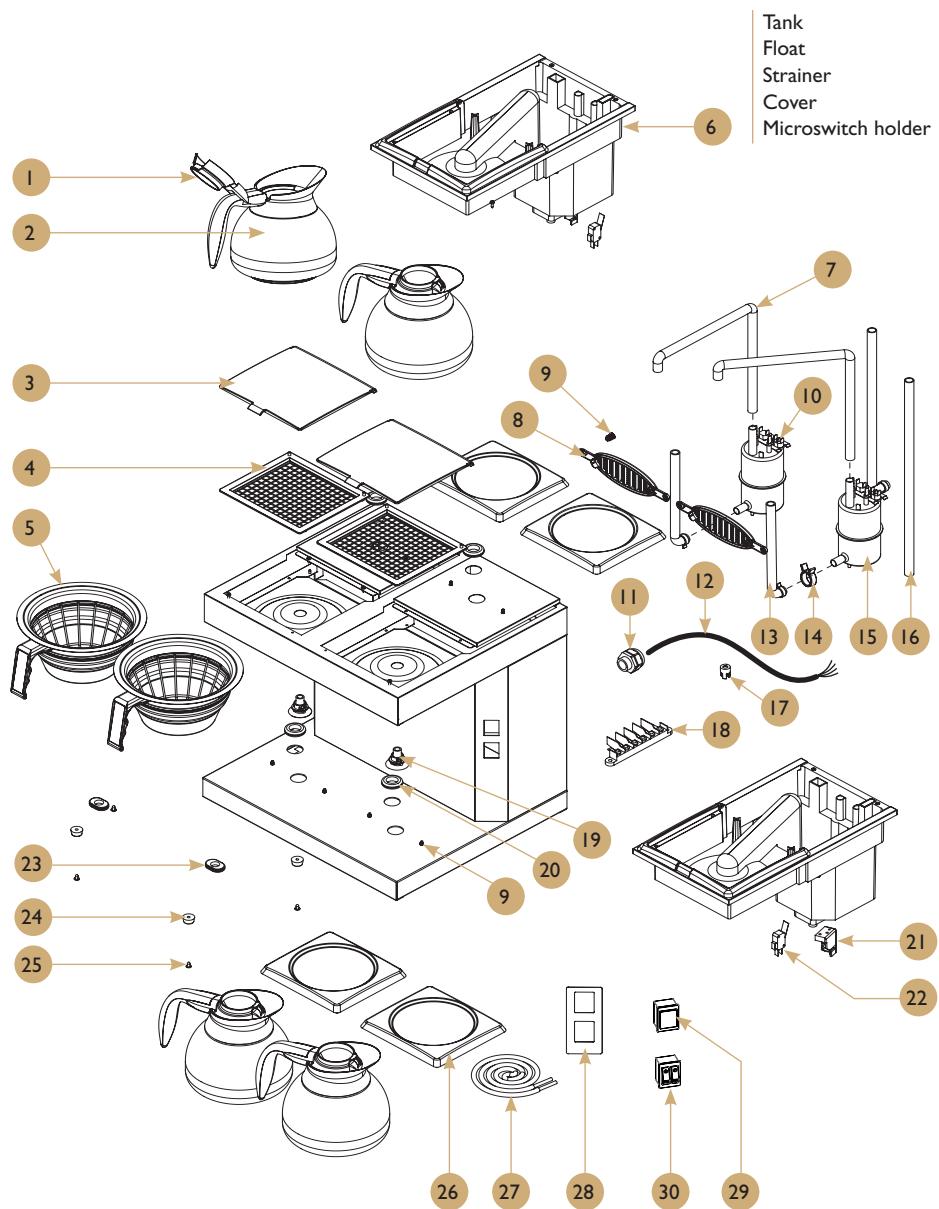
POS.	PCS	Part No.	Description
1	1	I20433	Decanter lid
2	4	I10001	Decanter CQ glass
3	2	I204012	Lid of tank original
4	2	I204013	Strainer
5	2	I102016	Brew basket I.8L 90 mm
6	2	I204015	Water tank complete I.8L
7	2	I20422	Air inlet plastic I.8L
8	1	I402150	Screw T20,M4X8
9	2	I031503	Silicon hose cold complete
10	2	I505041	Silicon hose hot I.8L
11	2	I60212-03	Over heating protection
12	1	I50501	Silicone tube 8x12mm
13	1	I505042	Inlet hose 3/4"-1/2"
14	1	I206603	Gasket DIA23.5mm x 15mm D3mm
15	1	I206604	Gasket DIA18mm x 9mm D2mm
16	1	2760094	Gasket set for inlet hose
17	4	I40339	Clip for hose I6.4mm
18	2	I205101	Brewing elemnet 230V/2200W
19	1	I20621-01	Inlet valve 0.95x2L Double
20	2	I505062	Overflow tube
21	2	I206123	Non return valve
22	1	I605651	PG complete (PG16)
23	1	I60549	Connector fv122
24	2	I204016	Spray nozzle for water tank
25	6	I60536	Gasket rubber NBR(Rubber TRP 30.0)
26	1	I505063	Rubber bottom TPE
27	4	I20320	Rubber feet V2
28	4	I402163	Screw M4x8
29	4	I20811	Warning plate 230V/95W
30	1	I60101	Heat coil 95W
31	2	I031640	Electronic unit PCB Orginal
32	2	I60802-04	Rocker switch double
33	2	I603854	Membran switch orig A
34	2	I60821	Micro switch tank I.8L
35	1	I204014	Microswitch holder
36	1	I605210	Power cable 4 x 1.5mm

EXPLODED VIEW

FILTERBREW & SERVING CONCEPT

DM-4

Drawing



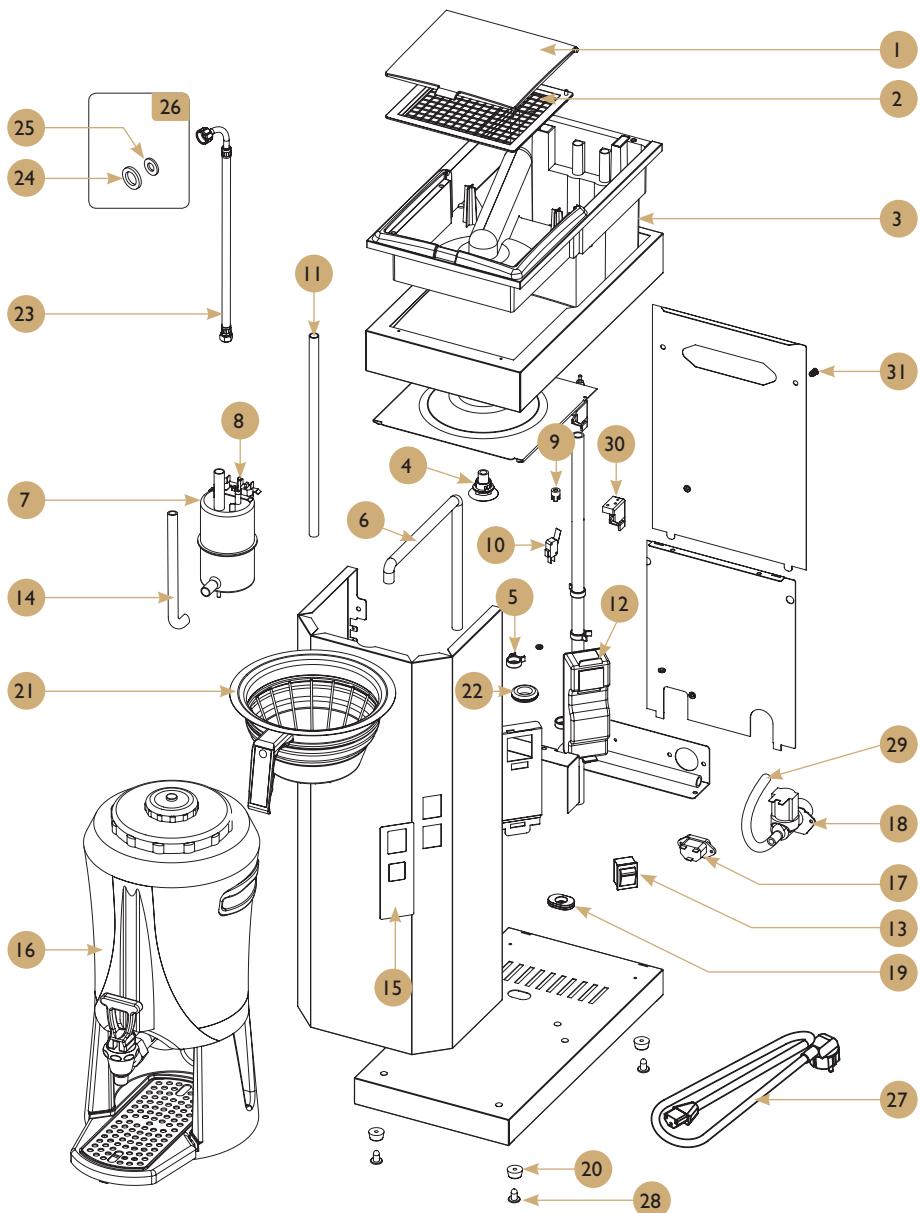
DM-4

Spare parts list

POS.	PCS	Part No.	Description
1	1	I20433	Decanter lid
2	4	I10001	Decanter CQ glass
3	2	I204012	Lid of tank original
4	2	I204013	Strainer
5	2	I102016	Brew basket 1.8L 90 mm
6	2	I204015	Water tank complete 1.8L
7	2	I505041	Silicon hose hot 1.8L
8	2	I20422	Air inlet plastic 1.8L
9	12	I402150	Screw T20,M4X8
10	2	I60212-03	Over heating protection
11	1	I605651	PG complete (PG16)
12	1	I605210	Power cable 4 x 1.5mm
13	2	I031503	Silicon hose cold complete
14	4	I40339	Clip for hose 16.4mm
15	2	I205101	Brewing elemnet 230V/2200W
16	2	I505062	Overflow tube
17	1	I206123	Non return valve
18	1	I60549	Connector fv122
19	2	I204016	Spray nozzle for water tank
20	6	I60536	Gasket rubber NBR(Rubber Trp 30.0)
21	2	I204014	Microswitch holder
22	2	I60821	Micro switch tank 1.8L
23	2	I505063	Bottom cover rubber
24	4	I20320	Rubber feet V2
25	4	I402163	Screw M4x8
26	4	I20811	Warming plate 230V/95W
27	1	I60101	Heat coil 95W
28	1	I603855	Overlay original M
29	1	I60804-04	Brewing lamp
30	1	I60802-04	Rocker switch double

Mega Gold A

Drawing



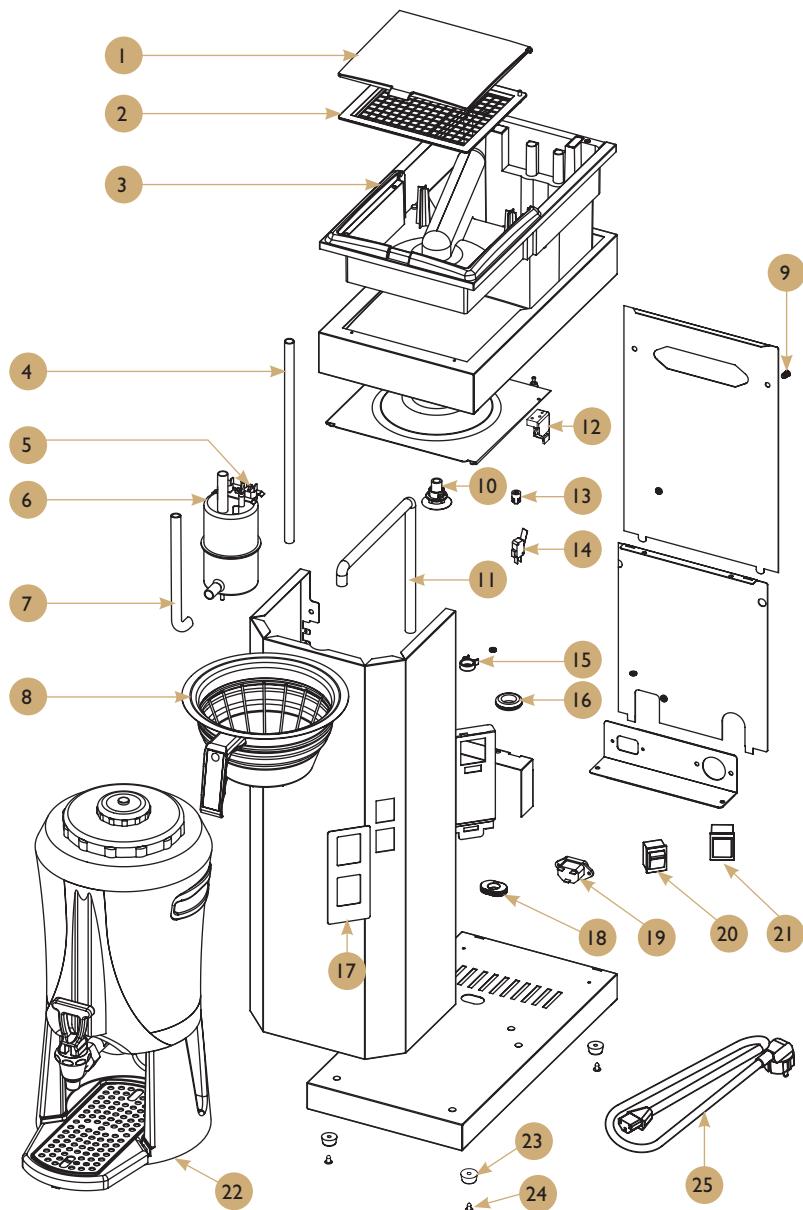
Mega Gold A

Spare parts list

POS.	PCS	Part No.	Description
1	1	I204012	Lid
2	1	I204013	Strainer
3	1	I204015	Water tank complete 1.8L
4	1	I204016	Spray nozzle for water tank
5	4	I40339	Clip for hose 16.4mm
6	1	I505041	Siliocn hose hot W 1.8L
7	1	I205101 (230V)	Brewing element 230V/2200W
7	1	I20505 (110V)	Brewing element 110V/1600W
8	1	I60212-03	Over heating protection
9	1	I206123	Non return valve 1.8L
10	1	I60821 (230V)	Micro switch tank 1.8L
10	1	I608221 (110V)	Micro switch 125V
11	1	I505062	Overflow hose 1.8L
12	1	I031640 (230V)	Electronic unit PCB Original
12	1	I031643 (110V)	Electronic unit PCB Original 110V
13	1	I60801-04	Rocker switch single(orange)
14	1	I031503	Silicon hose cold complete
15	1	I603854	Membran switch origi A
16	1	I103303	Serving station 2.5L
17	1	I60570	Power cord inlet/ Main socket
18	1	I20620-01 (230V)	Valve inlet single 1.8L
18	1	I20617 (110V)	Inlet coil 110V
19	1	I505063	Bottom cover rubber
20	4	I20320	Rubber feet
21	1	I102016	Brew basket 1.8L
22	6	I60536	Gasket rubber NBR(Rubber Trp 30.0)
23	1	I505042	Inlet hose 3/4"-1/2"
24	1	I206603	Gasket DIA23.5mm x 15mm D3mm
25	1	I206604	Gasket DIA18mm x 9mm D2mm
26	1	2760094	Gasket set for inlet hose
27	1	I60565	Main supply cable / Europe
28	4	I402163	Screw M4x8
29	Sale in M	I50501	Silicone tube 8x12mm
30	1	I204014	Microswitch holder
31	1	I402150	Screw T20,M4X8mm

Mega Gold M

Drawing



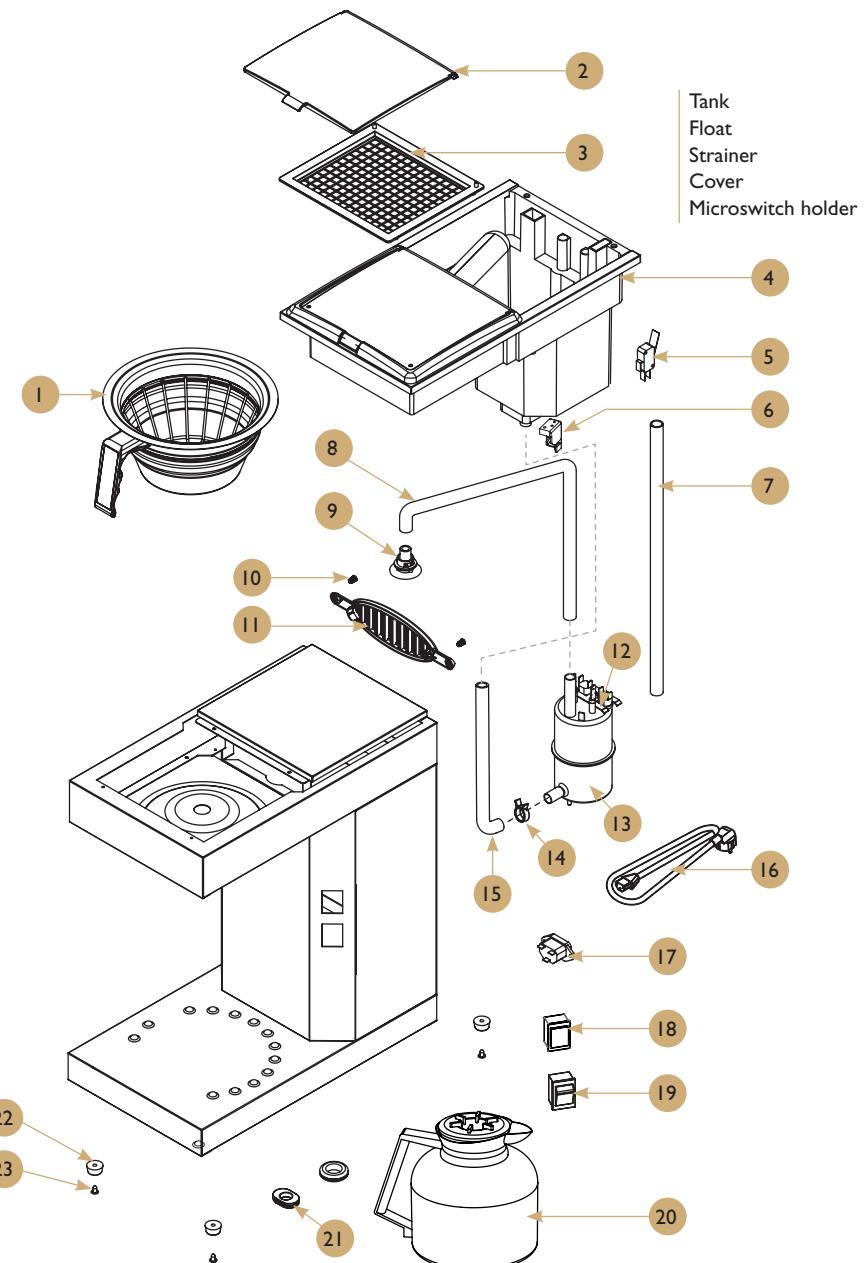
Mega Gold M

Spare parts list

POS.	PCS	Part No.	Description
1	1	I204012	Lid
2	1	I204013	Strainer
3	1	I204015	Water tank complete 1.8L
4	1	I505062	Overflow hose 1.8L
5	1	I60212-03	Over heating protection
6	1	I205101 (230V)	Brewing element 230V/2200W
6	1	I20505 (110V)	Brewing element 110V/1600W
7	1	I031503	Silicon hose cold complete
8	1	I102016	Brew basket 1.8L
9	1	I402150	Screw T20, M4X8mm
10	1	I204016	Spray nozzle for water tank
11	1	I505041	Silicon hose hot W 1.8L
12	1	I204014	Microswitch holder
13	1	I206123	Non return valve 1.8L
14	1	I60821 (230V)	Microswitch tank 1.8L
14	1	I60821 (110V)	Micro switch 125V
15	4	I40339	Clip for hose 16.4mm
16	6	I60536	Gasket rubber NBR(Rubber Trp 30.0)
17	1	I603855	Overlay original M
18	1	I505063	Bottom cover rubber
19	1	I60570	Power cord inlet/ Main socket
20	1	I60801-04	Rocker switch single
21	1	I60804-04	Brewing lamp
22	1	I103303	Serving station 2.5L
23	4	I20320	Rubber feet
24	4	I402163	Screw M4x8
25	1	I60565	Main supply cable / Europe

Thermos Office

Drawing



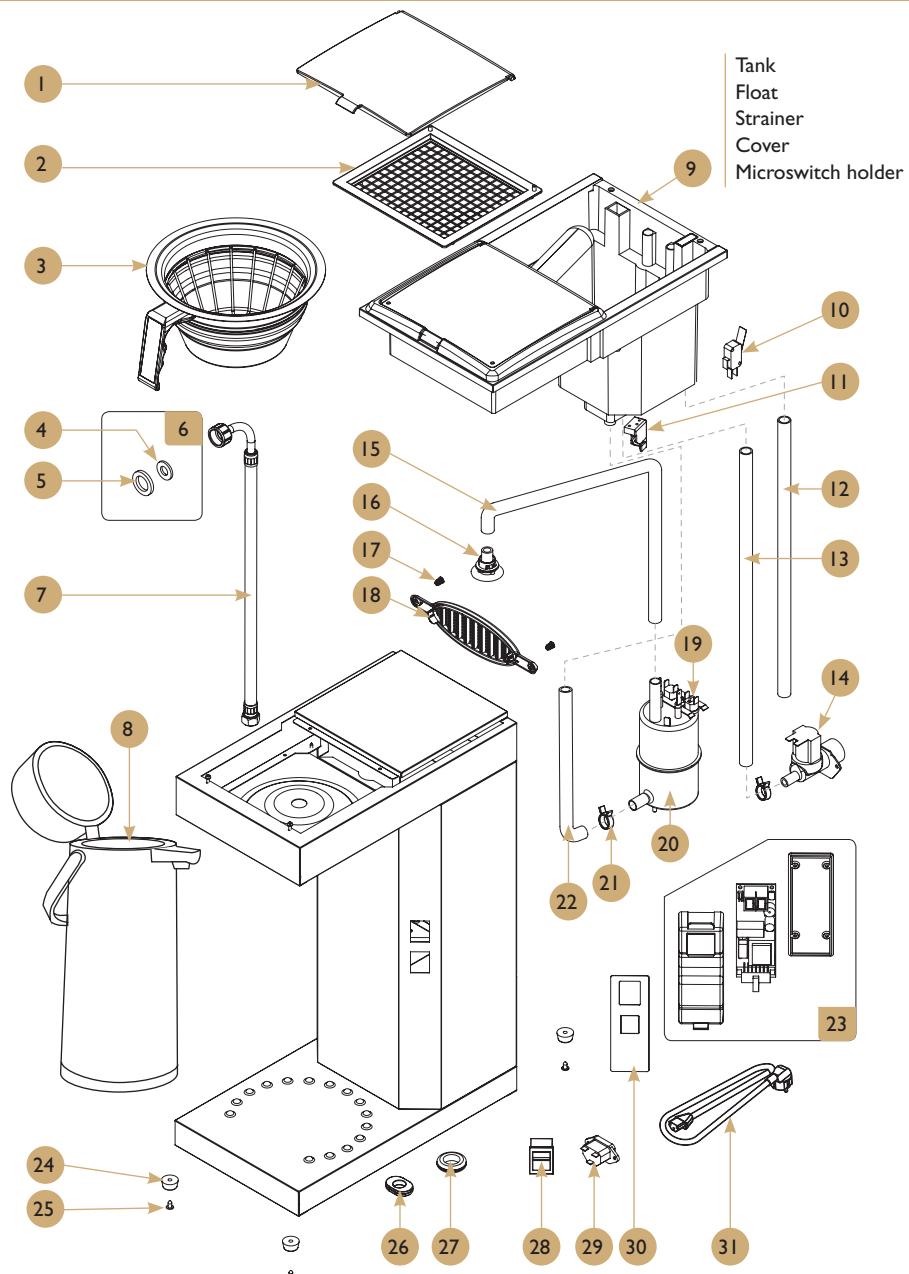
Thermos Office

Spare parts list

POS.	PCS	Part No.	Description
1	1	I102016	Brew basket 1.8L 90 mm
2	1	I204012	Lid of tank original
3	1	I204013	Strainer original
4	1	I204015	Water tank complete 1.8L
5	1	I60821 (230V)	Micro switch tank 1.8L
5	1	I608221 (110V)	Micro switch 125V
6	1	I204014	Microswitch holder
7	1	I505062	Over flow hose 1.8L
8	1	I505041	Silicon hose hot 1.8L
9	1	I204016	Spray nozzle for water tank
10	2	I402150	Screw T20,M4X8mm
11	1	I20422	Air inlet plastic 1.8L
12	1	I60212-03	Over heating protection
13	1	I205101 (230V)	Brewing element 230V/2200W
13	1	I20505 (110V)	Brewing element 110V/1600W
14	4	I40339	Clip for hose 16.4mm
15	1	I031503	Silicon hose cold complete
16	1	I60565	Main supply cable / Europe
17	1	I60570	Power cord inlet / Main socket
18	1	I60804-04	Brewing lamp
19	1	I60801-4	Rocker switch single
20	1	I103256	Thermos 1.9L
21	1	I505063	Rubber bottom TPE
22	4	I20320	Rubber feet V2
23	4	I402163	Screw M4x8

Thermos A

Drawing



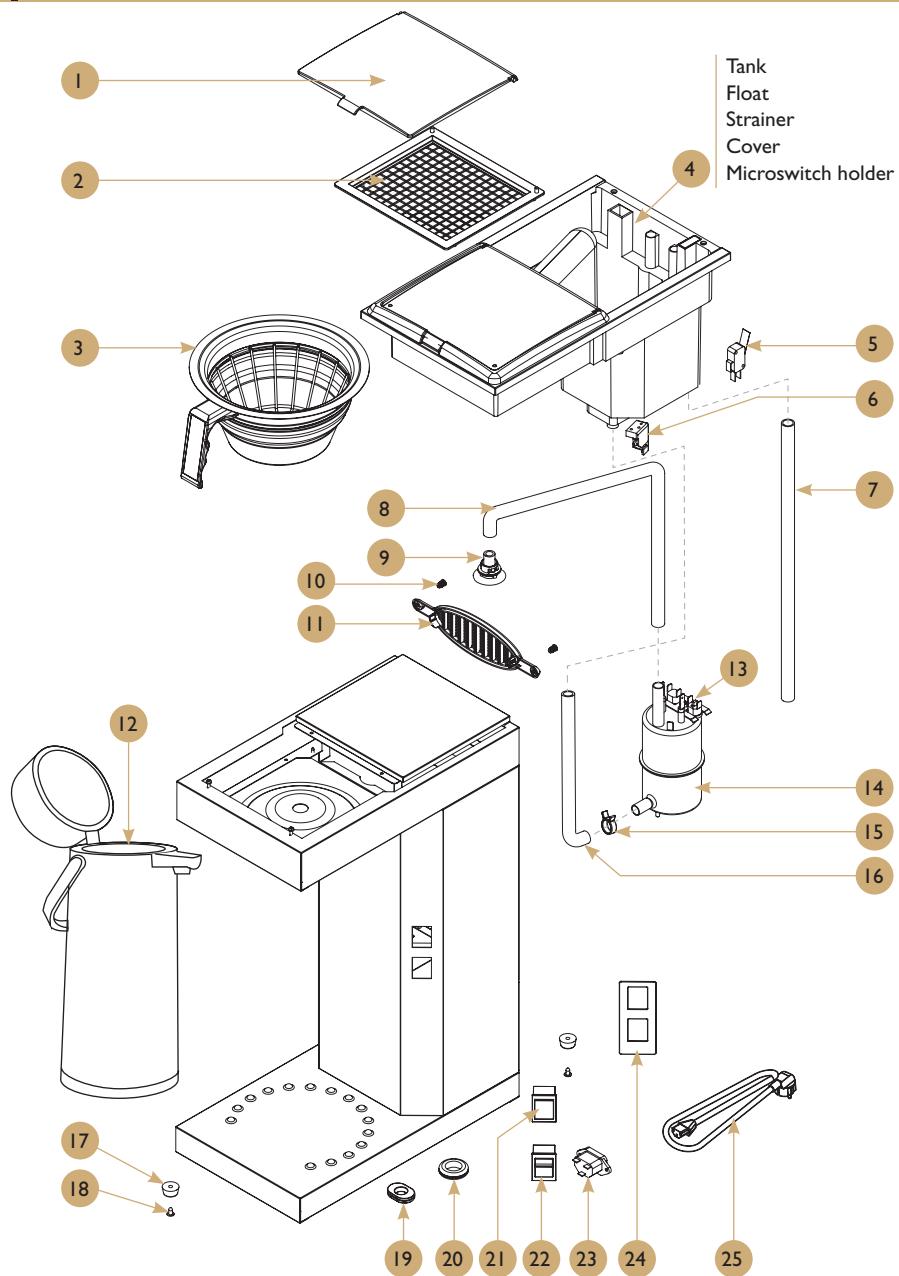
Thermos A

Spare parts list

POS.	PCS	Part No.	Description
1	1	I204012	Lid of tank original
2	1	I204013	Strainer original
3	1	I102016	Brew basket 1.8L 90 mm
4	1	I206604	Gasket DIA18mm x 9mm D2mm
5	1	I206603	Gasket DIA23.5mm x 15mm D3mm
6	1	2760094	Gasket set for inlet hose
7	1	I505042	Inlet hose 3/4"-1/2"
8	1	I103184	Thermos 2.2L
9	1	I204015	Water tank complete 1.8L
10	1	I60821 (230V)	Micro switch tank 1.8L
10	1	I60821 (110V)	Micro switch 125V
11	1	I204014	Microswitch holder
12	1	I505062	Overflow hose
13	Sale in M	I50501	Silicone tube 8x12mm
14	1	I20620-01 (230V)	Valve inlet single 1.8L
14	1	I20617 (110V)	Inlet coil 110V
15	1	I505041	Hot water hose 1.8L
16	1	I204016	Spray nozzle for water tank
17	2	I402150	Screw T20,M4X8mm
18	1	I20422	Air inlet plastic 1.8L
19	1	I60212-03	Over heating protection
20	1	I205101 (230V)	Brewing element 230V/2200W
20	1	I20505 (110V)	Brewing element 110V/1600W
21	1	I40339	Clip for hose 16.4mm
22	1	I031503	Silicon hose cold complete
23	1	I031640 (230V)	Electronic unit PCB Original
23	1	I031643 (110V)	Electronic unit PCB Original 110V
24	4	I20320	Rubber feet V2
25	4	I402163	Screw M4x8
26	1	I505063	Bottom rubber TPE
27	6	I60536	Gasket rubber NBR(Rubber Trp 30.0)
28	1	I60801-04	Rocker switch single(orange)
29	1	I60570	Power cord inlet/Main socket
30	1	I603854	Membran switch Original A
31	1	I60565	Main supply cable / Europe

Thermos M

Drawing



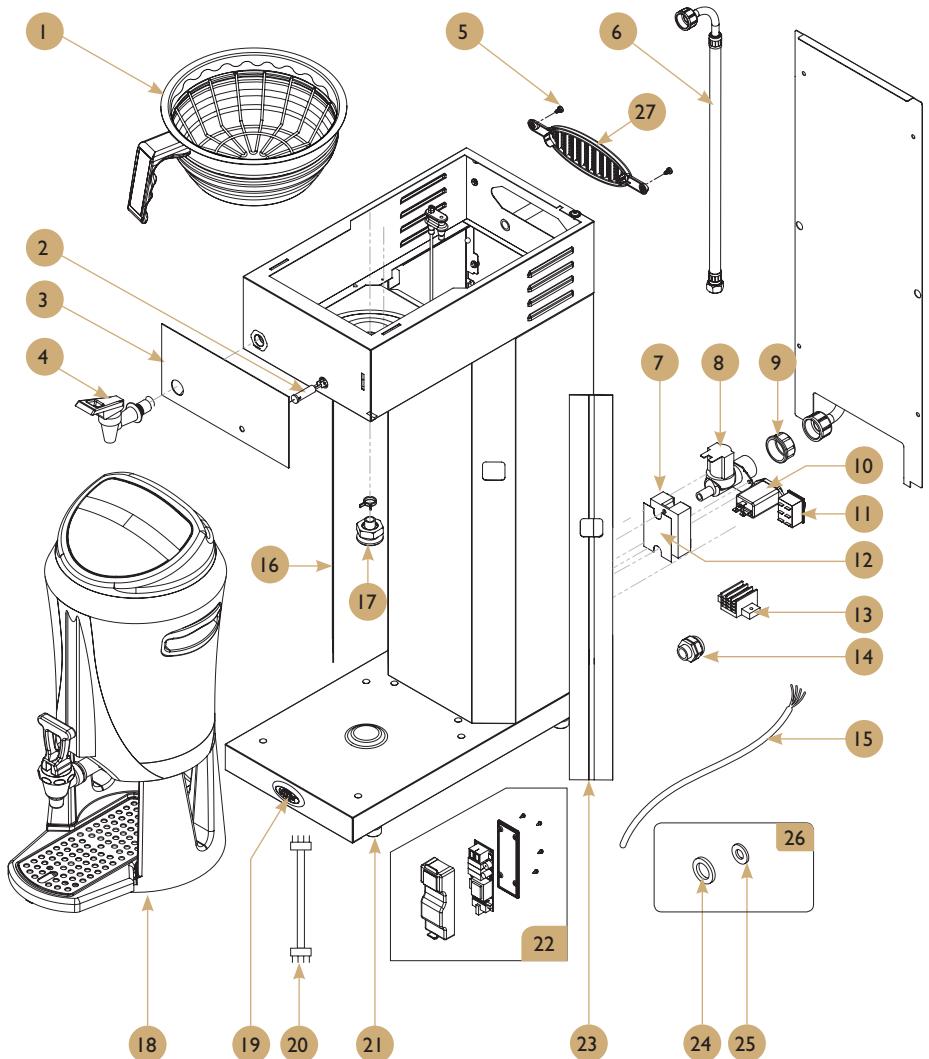
Thermos M

Spare parts list

POS.	PCS	Part No.	Description
1	1	I204012	Lid of tank original
2	1	I204013	Strainer original
3	1	I102016	Brew basket 1.8L 90 mm
4	1	I204015	Water tank complete 1.8L
5	1	I60821 (230V)	Micro switch tank 1.8L
5	1	I608221 (110V)	Micro switch 125V
6	1	I204014	Microswitch holder
7	1	I505062	Overflow hose
8	1	I505041	Hot water hose 1.8L
9	1	I204016	Spray nozzle for water tank
10	2	I402150	Screw T20,M4X8mm
11	1	I20422	Air inlet plastic 1.8L
12	1	I103184	Thermos 2.2L
13	1	I60212-03	Over heating protection
14	1	I205101 (230V)	Brewing element 230V/2200W
14	1	I20505 (110V)	Brewing element 110V/1600W
15	1	I40339	Clip for hose 16.4mm
16	1	I031503	Silicon hose cold complete
17	4	I20320	Rubber feet V2
18	4	I402163	Screw M4x8
19	1	I505063	Bottom rubber TPE
20	6	I60536	Gasket rubber NBR(Rubber Trp 30.0)
21	1	I60804-04	Brewing lamp
22	1	I60801-04	Rocker switch single(orange)
23	1	I60570	Power cord inlet/Main socket
24	1	I603855	Overlay original M
25	1	I60565	Main supply cable / Europe

Cater

Drawing



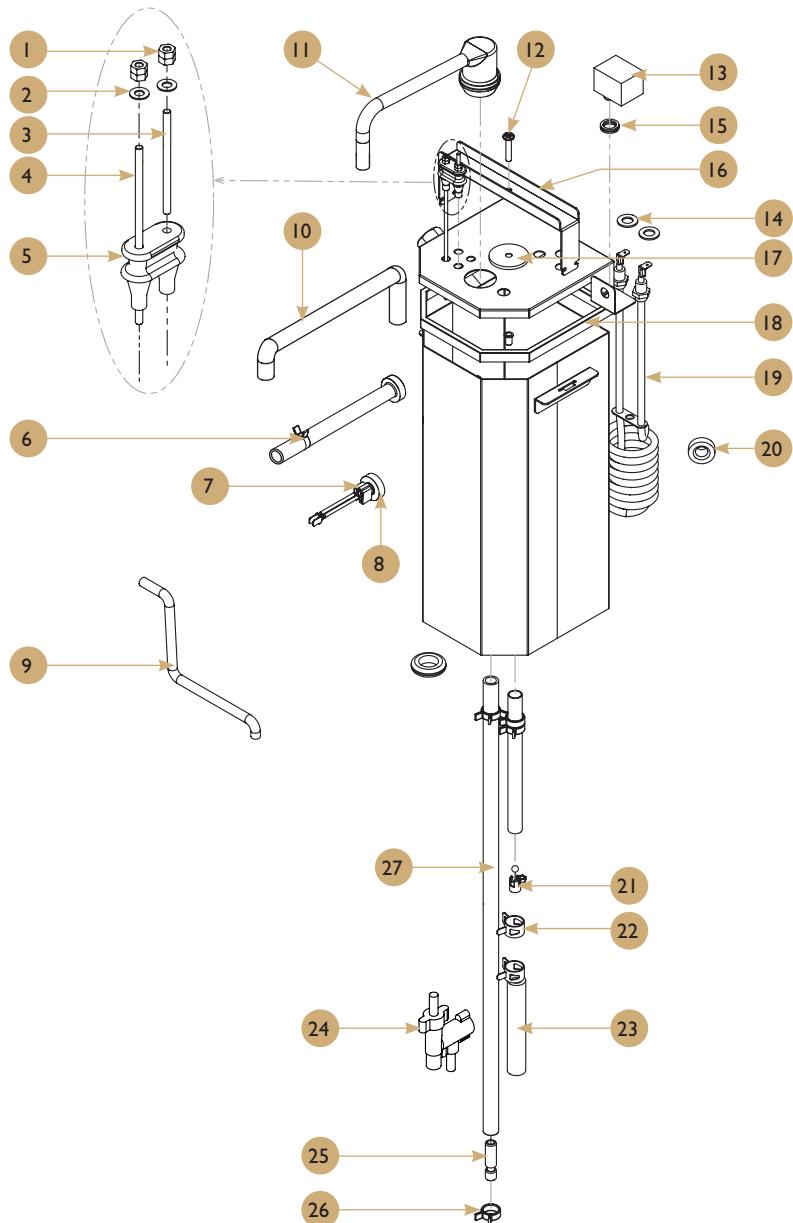
Cater

Spare parts list

POS.	PCS	Part No.	Description
1	1	1102011	Brew basket 110mm
2	1	1664002	Red indicating lamp 230V
3	1	1603863	Membrane switch single
3	1	1603864	Membrane switch double
4	1	1201924	Hot water faucet
5	1	140204	Screw M4x6mm
6	1	1505042	Inlet hose 3/4"-1/2"
7	1	1604203/1604201	Solid state 25A
8	1	120624-01 (230V)	Valve inlet single 2.5L
8	1	120617-01 (110V)	Inlet coil 110-120V
9	1	1403401	Inlet valve plug with silicon seal
10	1	160571	Emi fliter with ac socket
11	1	160801-04	Rocker switch single(orange)
12	1	1206581	Seal solid state
13	1	160351	Connecter PA80 FF
14	1	1605651	PG complete (P16)
15	1	1605210	Power cable 4x1.5mm
16	1	1603866	Overlay cater without hole
17	1	1031801	Spray nozzle tower
18		1103303	Serving station 2.5L
19	1	160970	CQ sticker
20	1	1605403	Flat cable, extention
21	4	120136	Adjustable feet
22	1	1031646 (230V)	Electronic unit PCB Cater
22	1	1031645 (110V)	Electronic unit PCB 110V Cater
23	1	1603865	Overlay cater with hole
24	1	1206603	Gasket DIA23.5mm x 15mm D3mm
25	1	1206604	Gasket DIA18mm x 9mm D2mm
26	1	2760094	Gasket set for inlet hose
27	1	120422	Air inlet plastic 1.8L

Cater tank

Drawing

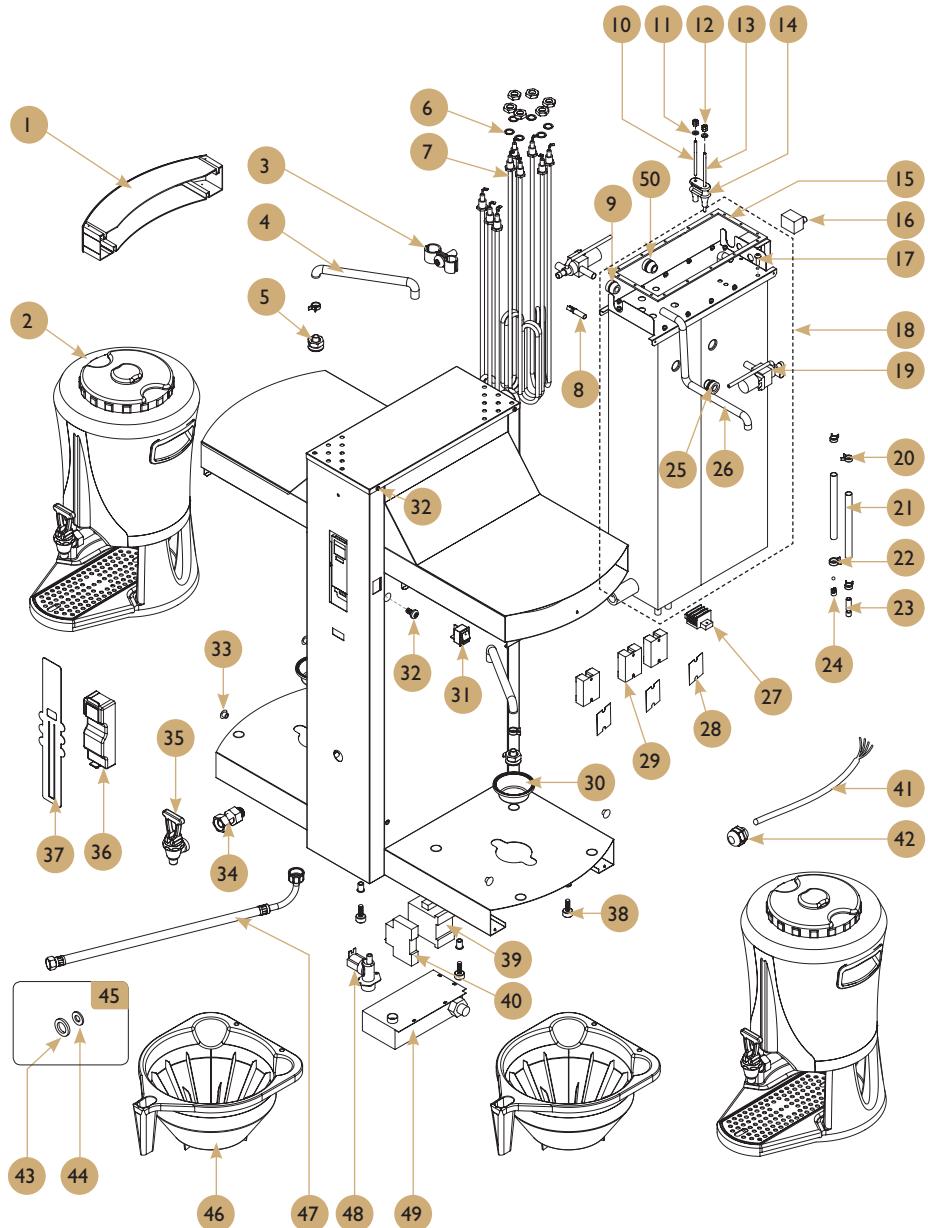


Cater tank

Spare parts list			
POS.	PCS	Part No.	Description
1	1	I401101-01	Nut M3
2	1	I461008	Spring washer M3
3	1	I205305	Sensor pin 47mm
4	1	I205303	Sensor pin long 160mm
5	2	I605362	Double seal level sensor
6	1	I031505	Hot water tube
7	1	711000	Ntc thermistor belong
8	1	I605361	Seal for NTC
9	1	I031502	Overflow tube Double Cater
10	1	I031506	Steam hose
11	1	I031504	Outlet tube cater
12	1	I402220	Screw M5x20
13	1	220221	High limit switch
14	2	I206507	Fiber washer element
15	1	I206505	Gasket HL switch
16	1	250430	Tank lid bracket
17	1	250433	Lid washer
18	1	I206587	Tank gasket
19	1	I601311 (230V)	Element 2200W/230V with ss nuts
19	1	I601310 (110V)	Element 1600W/120V
20	2	I60538-03	Plug for water outlet
21	2	I206123	Non return valve
22	2	I364004	Clamp spring steel
23	Sale in M	I561009	Silicone tube braided 1m ID-9.53mm
24	1	I60193	PDS valve
25	1	I403400	Pp plug for drainage hose
26	4	I40339	Clip for hose 16.4mm
27	Sale in M	I50501	Silicone tube 8x12mm

Tower

Drawing



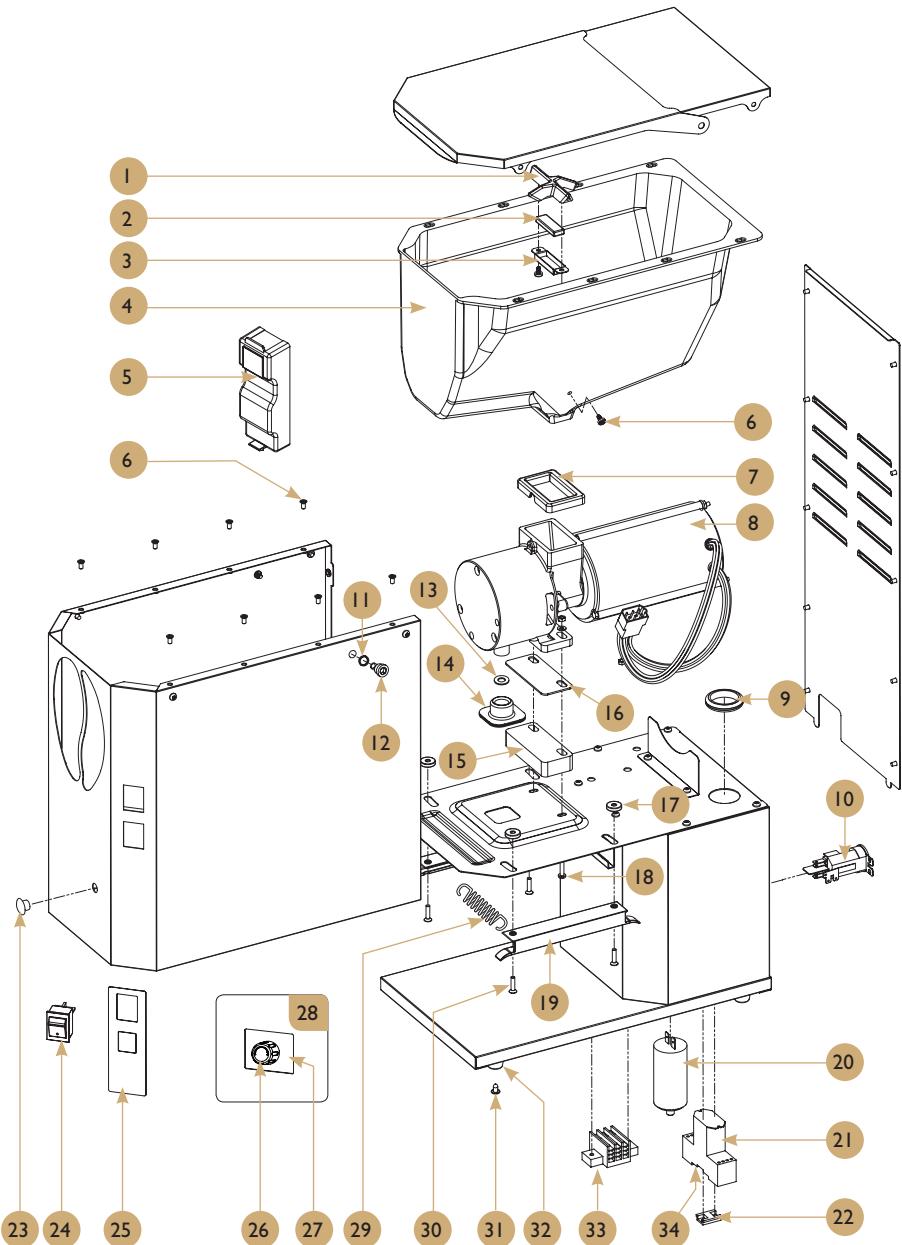
Tower

Spare parts list

POS.	PCS	Part No.	Description
1	4	I102122	End cover
2	2	I103302	Serving station 5L
3	1	I305011	OH bulb holder
4	2	I561028	Silicon outlet tube
5	2	I031801	Spray nozzle Tower
6	6	I206503	Fiber washer
7	1	I601312	Element 3000W
8	1	711000	NTC thermistor
9	2	I561010	Seal for outlet valve
10	1	I205302	Sensor short (55mm)
11	1	I461008	Spring washer M3
12	1	I401101-01	Nut M3
13	2	I205301	Sensor long (90mm)
14	2	I605362	Double seal level sensor
15	1	I206586	Gasket tank tower
16	1	220220	High limit switch
17	10	I40225	Tank lid screw M4x12mm
18	1	I203526	Tank Tower complete
19	2	I60230	Solenoid valve outlet 230V
20	5	I40330	Clamp 13.3mm
21	Sale in M		I50501
22	5	I40339	Silicon hose 8x12mm
23	2	I403400	Clip for hose 16.4mm
24	1	I206123	Pp plug for drainage hose
25	2	I605361	Non return valve
26	1	I031502	Seal for NTC
27	1	I60351	Tube for overflow
28	3	I605361	Connecter PA80 FF
29	3	I604203/1604201	Seal for solid state
29	3	I604204	Solid state 25A
30	2	I104330	Solid state 50A
31	1	I608017	Drip cup
32	6	I402163	Power switch (black)
33	1	I505076	Screw M4X8mm
34	1	I802120	Rubber Plug, 10mm black
35	1	I20200-02	Connection faucet short
36	1	I031642	Faucet metal black top
37	1	I603856	Adjustable foot
37	1	I603859	Electronic unit PCB Tower
38	4	I20316	Membrane switch, Tower
39	1	I602231	Membrane switch, Single Tower
40	1	I60429-02	Relay 230V VAC
41	1	I605241	Fuse automatic
42	1	I605651	Power cord 3-phase 5x2.5mm(1.8m)
43	1	I206603	PG complete (PG16)
44	1	I206604	Gasket DIA23.5mm x 15mm D3mm
45	1	2760094	Gasket DIA18mm x 9mm D2mm
46	2	I102131	Gasket set for inlet hose
47	1	I505042	Brewbasket 5L
48	1	I20634	Inlet hose 3/4"-1/2"
49	1	I604393	Valve single 5L/min
50	1	I60538-03	Electronic filter
			plug for water outlet

Grinder original

Drawing

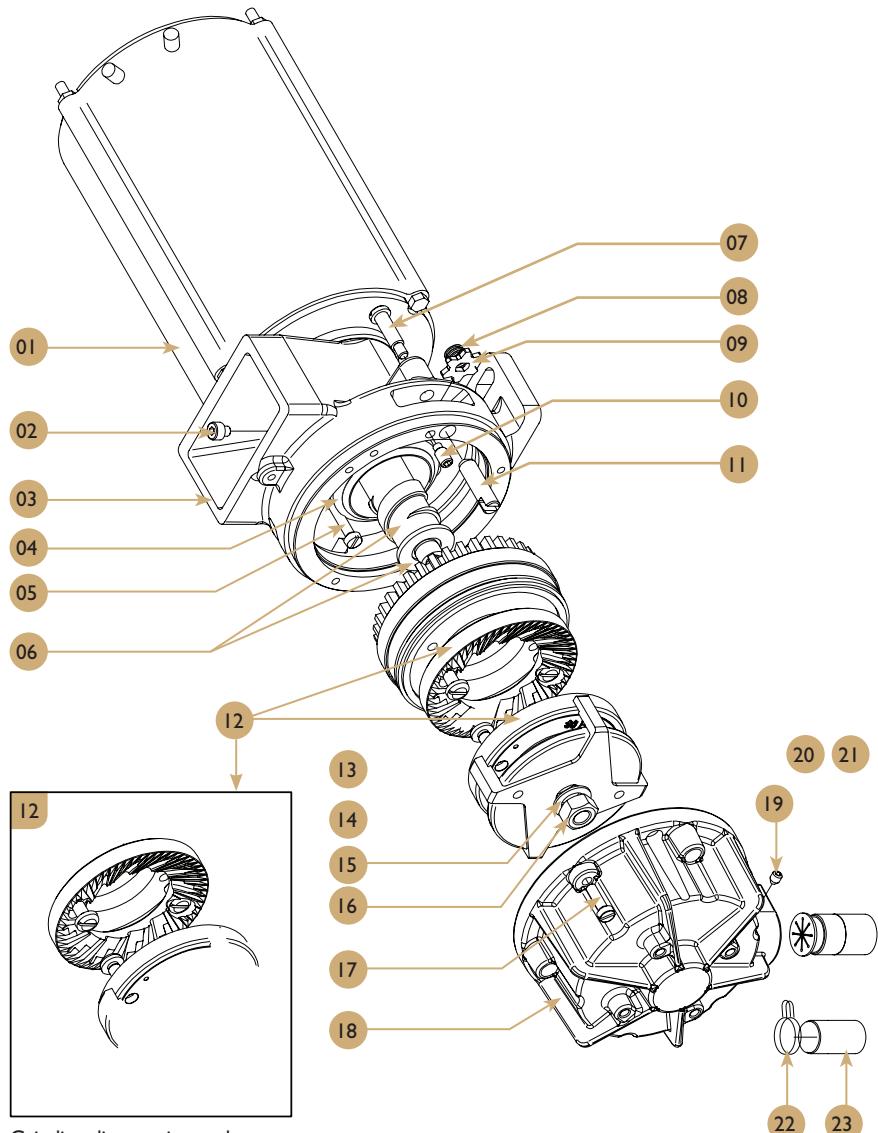


Grinder original

Spare parts list			
POS.	PCS	Part No.	Description
1	1	I364001	Finger Protection
2	1	I608281	Magnet 39x13x6mm
3	1	I364002	Metal Plate for finger protection
4	1	I105517	Bean Hopper
5	1	I031647	Electronic unit PCB Grinder
6	9	I40204	Screw M4x6
7	1	I561004	Sealing Rbbber
8	1	I604752	Grinder EK-21
9	1	I204651	Rubber trp 40
10	1	I605652	Power cable fixed 16A 250V
11	1	I264027	Nylon washer 8mm
12	1	I461038	Screw M4x6 with step
13	1	83243641	Silicone flap
14	1	I561003	Outlet tube sealing
15	1	I264009	Nylon base Grinder
16	1	I561002	Base silcon Grinder
17	4	I561005	Nylon Bushing
18	1	I461005	Screw M4x40
19	2	I264013	Nylon Slide Guide
20	1	83257335	Capacitor
21	1	I60245	Relay 230V C7-A20
22	1	I60247	Chassi adapter
23	1	I505076	Rubber Plug,10mm black
24	1	I608017	Rocker Switch Black
25	1	I603854	Membran switch original
26	1	I608131	Adjustment wheel 20mm
27	1	I608132	Cover lid 20mm
28	1	710553	Adjustment kit
29	1	I461019	Spring link 14cm
30	1	I401901	Screw M4x16
31	1	I402163	Screw M4x8mm
32	1	I20320	Rubber Feet
33	1	I60351	Connecter PA80 FF
34	1	I60246	Socket V-7 relay

Grinder EK21

Drawing



Grinder EK2I

Spare parts list

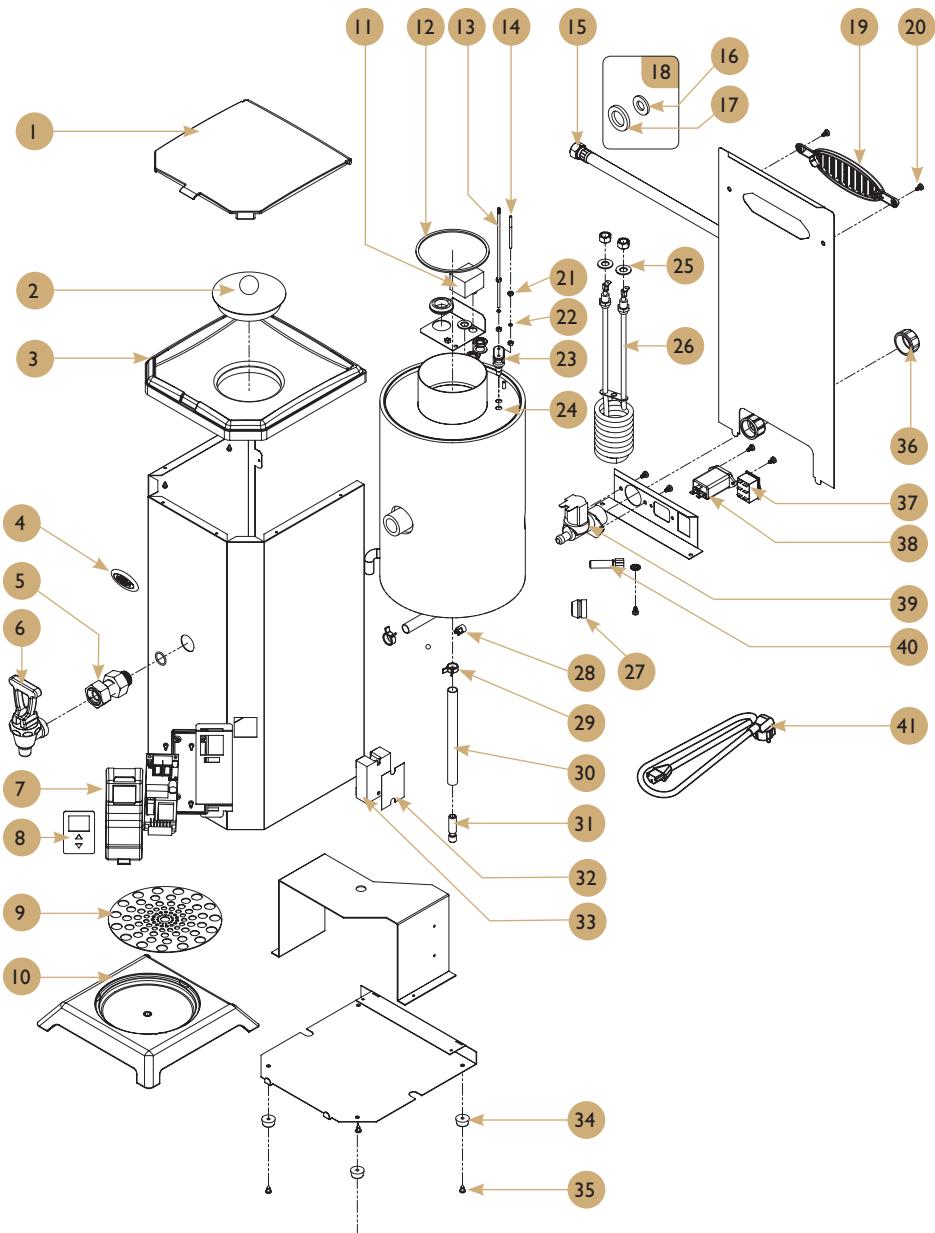
POS.	PCS	Part No.	Description
1	1	83230921	Motor 200-240V/50/60Hz
2	1	83250823	Allen screw, M4x4
3	1	83230939	Bean inlet housing EK2I
4	1	83255509	O-Ring 35x4
5	3	83250822	Cylinder screw, M4x50
6	1	83230928	Conveying screw EK2I
7	1	83250821	Slotted head screw, M4x16
8	1	83243678	Pressure spring
9	1	83307991	Adjustment pinion
10	1	83250742	Allen set screw, DIN916-M5x10
11	1	83243677	Adjustment shaft
12	1	83306715	Grinder discs EK2I (service pack)
13	4	83250614	Slotted head screw
14	1	83230926	Grinding disc carrier - rotating
15	1	83251601	Washer, 10x16x1
16	1	83251043	Hexagon nut left hand thread-M8L-08d
17	3	83250408	Slotted head screw, M4x14
18	1	83100914	Grinder Housing
19	1	83250743	Allen set screw, DIN916-M4x5
20	1	83243641	Silicone flapper for grinder
21	1	83243642	Coffee outlet spout
22	1	140335	Tube clamp 19.2 mm
23	1	1505081	Silicon hose ID16 OD19mm

EXPLODED VIEW

HVA|HVM

FILTERBREW & SERVING CONCEPT

Drawing

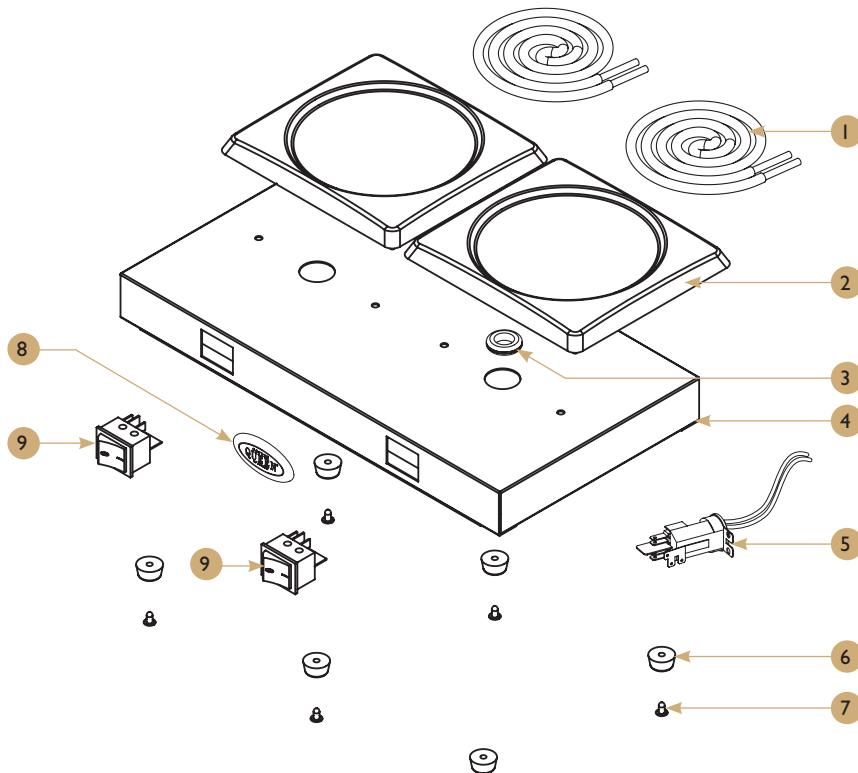


HVA|HVM

Spare parts list			
POS.	PCS	Part No.	Description
1	1	I304061	Lid plastic HVA
2	1	I031301	HVA lid
3	1	I304062	Top plastic HVA
4	1	I60970	CQ sticker
5	1	I802120	Connection faucet short
6	1	I20200-02	Faucet metal black top
7	1	I031641	Electronic unit PCB HVA
8	1	I603853	Membrane switch HVA
9	1	253207	Drip tray insert
10	1	I304063	Drip tray HVA
11	1	220221	High limit switch short with connect
12	1	I206589	Gasket tank
13	1	I205303	Sensor HVA tall(160mm)
14	1	I205302	Sensor short (55mm)
15	1	I505042	Inlet hose 3/4"-1/2"
16	1	I206604	Gasket DIA18mm x 9mm D2mm
17	1	I206603	Gasket DIA23.5mm x 15mm D3mm
18	1	2760094	Gasket set for inlet hose
19	1	I20422	Air vent
20	2	I402150	Screw T20 M4x8mm
21	4	I401101-01	Nut M3
22	2	I461008	Spring washer M3
23	1	I605362	Double seal level sensor
24	1	I203527	Tank complete HVA
25	1	I206507	Fiber washer
26	1	I601311	Element 2200W/230V with SS nuts
27	1	I605361	Seal NTC
28	1	I206123	Non return valve
29	3	I40330	Clamp 13.3mm
30	Sale in M	I50501	Silicon hose 8X12mm
31	1	I403400	PP plug for drainage hose
32	1	I206581	Seal solid state
33	1	I604203/I604201	Solid state 25A
34	4	I20320	Rubber feet V2
35	1	I402163	Screw T20 M4x8mm
36	1	I403401	Inlet valve plug with silicon seal
37	1	I60801-04	Rocker switch single
38	1	I60571	Emi filter with AC socket
39	1	I20624-01	Single valve 2.5L/min
40	1	711000	NTC thermistor belong
41	1	I60565	Power cord european 16A250V

V-2

Drawing

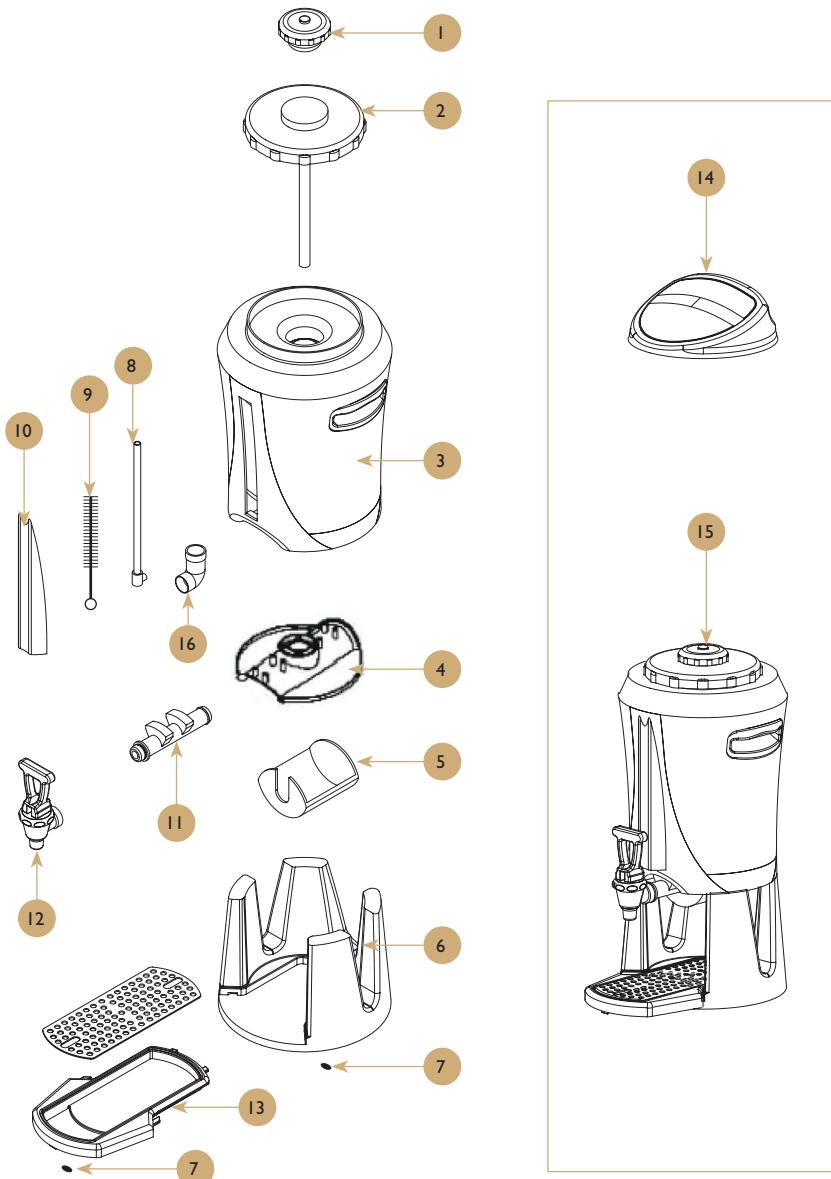


Spare parts list

POS.	PCS	Part No.	Description
1	2	I60101	Heat coil 95W
2	2	I20811	Warming plate 230V/95W
3	2	I60536	Gasket rubber NBR(Rubber TRP 30.0)
4	1	2401101	Chassi V-2
5	1	I605652	Power cable fixed 16A 250V
6	6	I20320	Rubber Feet
7	6	I402163	Screw M4x8mm
8	1	I60970	CQ sticker
9	2	I608017	Power Switch Black

Serving station 2.5L

Drawing



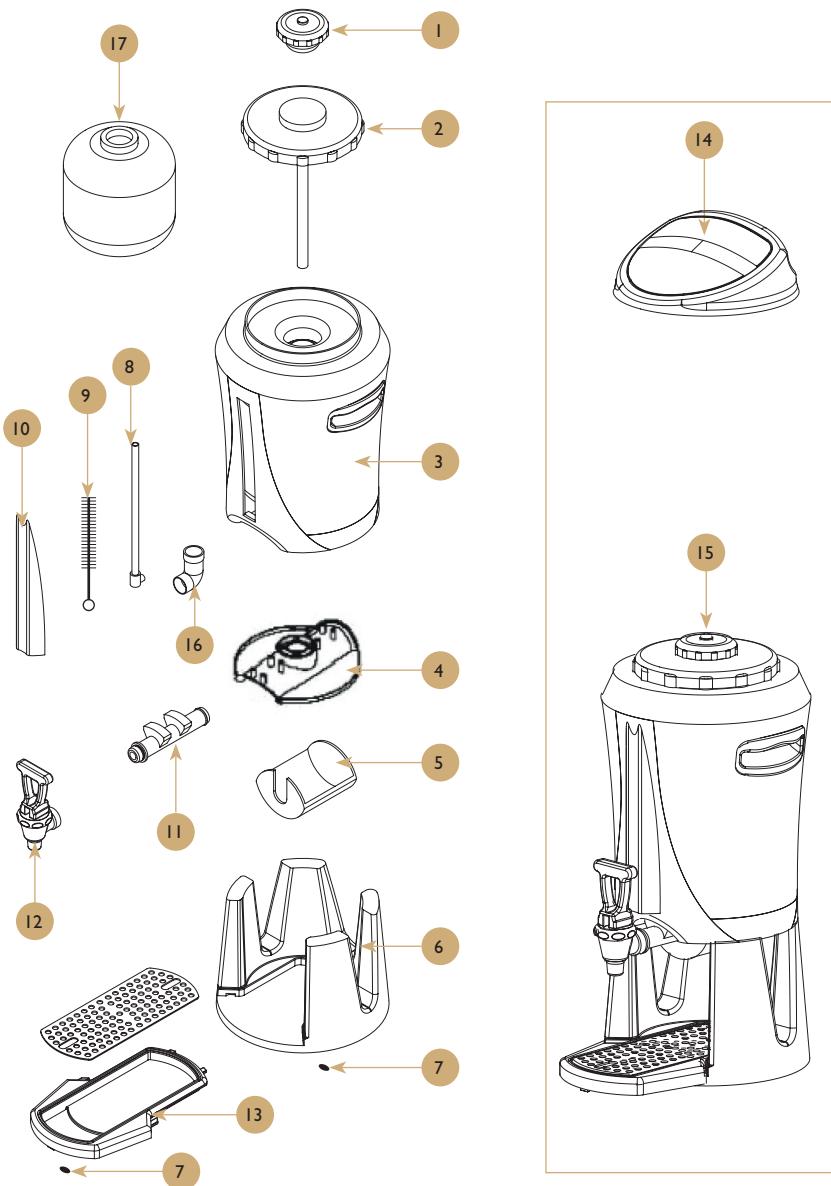
Serving station 2.5L

Spare parts list

POS.	PCS	Part No.	Description
1	1	1103351	Lid Cover with Tie
2	1	1103452	Brew-Thru Lid with SS Tube (2.5L)
3	1	1103453	Main housing with Upp 2.5L
4	1	1103455	Lower Housing 2.5L
5	1	1103456	Outlet Tube Jacket (2.5L)
6	1	1103457	Stand 2.5L
7	5	1103364	Rubber feet
8	1	1103459	Glass Tube (2.5L serving station)
9	1	1103360	Cleaning Brush for Level Indicator
10	1	1103461	Water Indicator Lens (2.5L)
11	1	1103462	Outlet Tube (2.5L serving station)
12	1	1103363	Faucet, Crown
13	1	1103458	Drip Tray (2.5L serving station)
14	1	1103371	Display Top Serving Station.2.5L
15	1	1103303	Serving Station 2.5L
16	1	1103366	Outlet Connector 2.5L Servn.stn

Serving station 5L

I Drawing

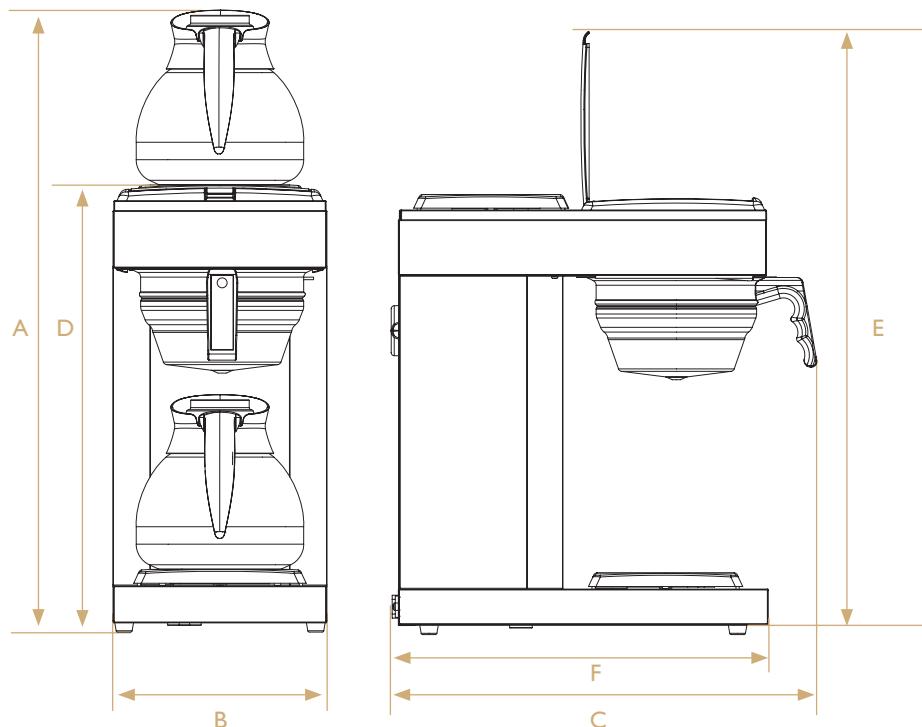


Serving station 5L

Spare parts list

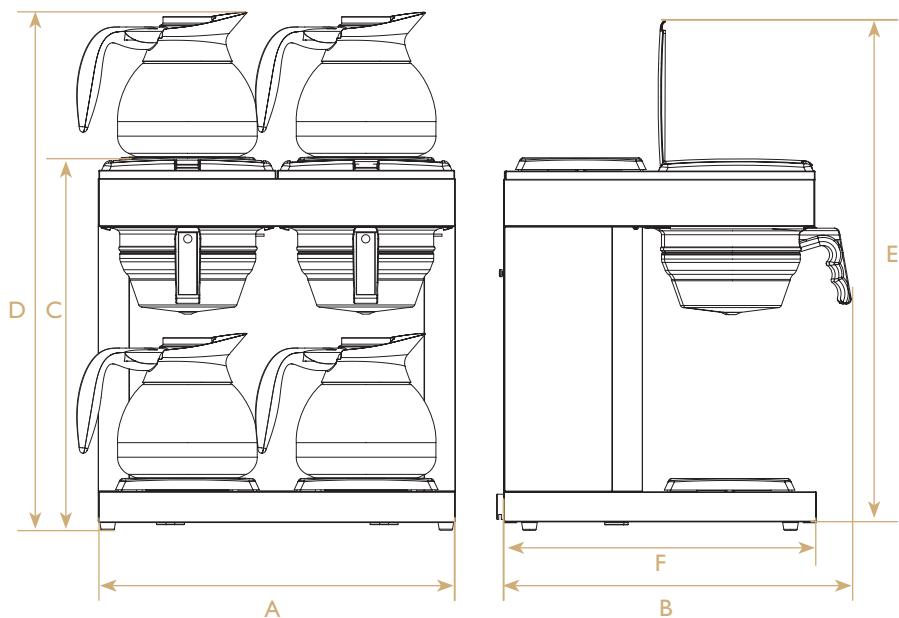
POS.	PCS	Part No.	Description
1	1	1103351	Lid Cover with Tie
2	1	1103352	Brew-Thru Lid with SS Tube (5L)
3	1	1103353	Main Housing with Upper Housing
4	1	1103355	Lower Housing 5L
5	1	1103356	Outlet Tube Jacket (5L)
6	1	1103357	Stand
7	5	1103364	Rubber feet
8	1	1103359	Glass Tube (5L serving station)
9	1	1103360	Cleaning Brush for Level Indicator
10	1	1103361	Water Indicator Lens (5L)
11	1	1103362	Outlet Tube (5L serving station)
12	1	1103363	Faucet, Crown
13	1	1103358	Drip Tray (5L serving station)
14	1	1103370	Display Top Serving Station 5L
15	1	1103302	Serving Station 5L
16	1	1103365	Outlet Connector 5L Servn.stn
17	1	1103354	SS Vacuum Bottle, Silicone gasket

A-2/M-2



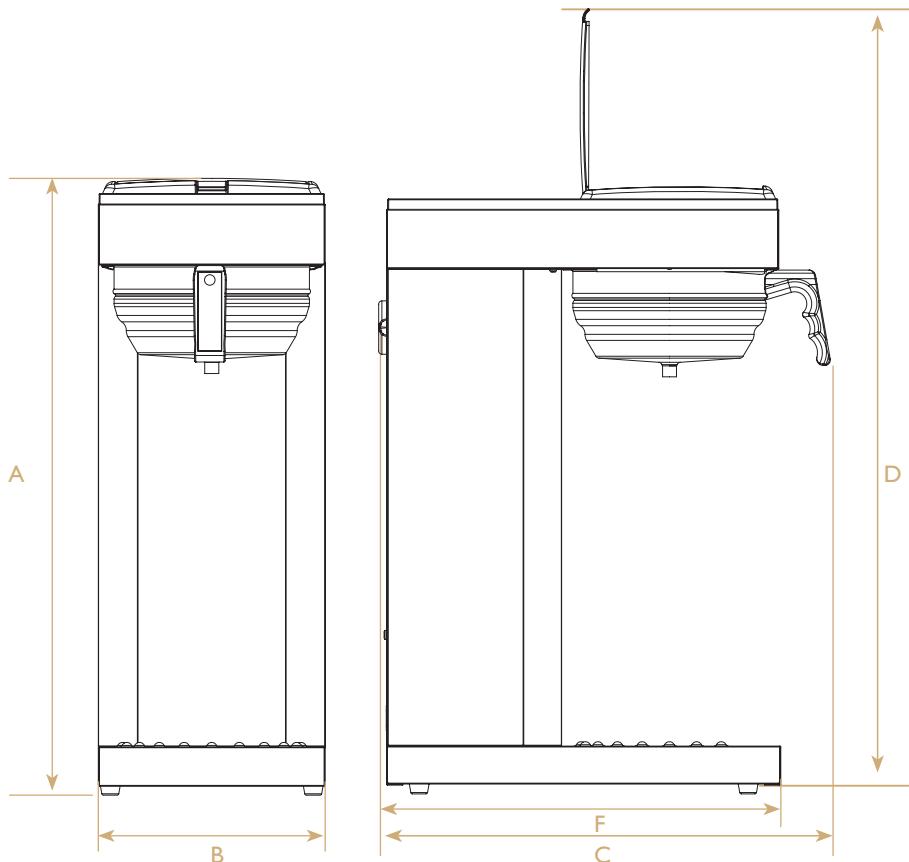
Model	A	B	C	D	E	F
A-2/M-2	595mm	205mm	410mm	428mm	578mm	360mm

DA-4/DM-4



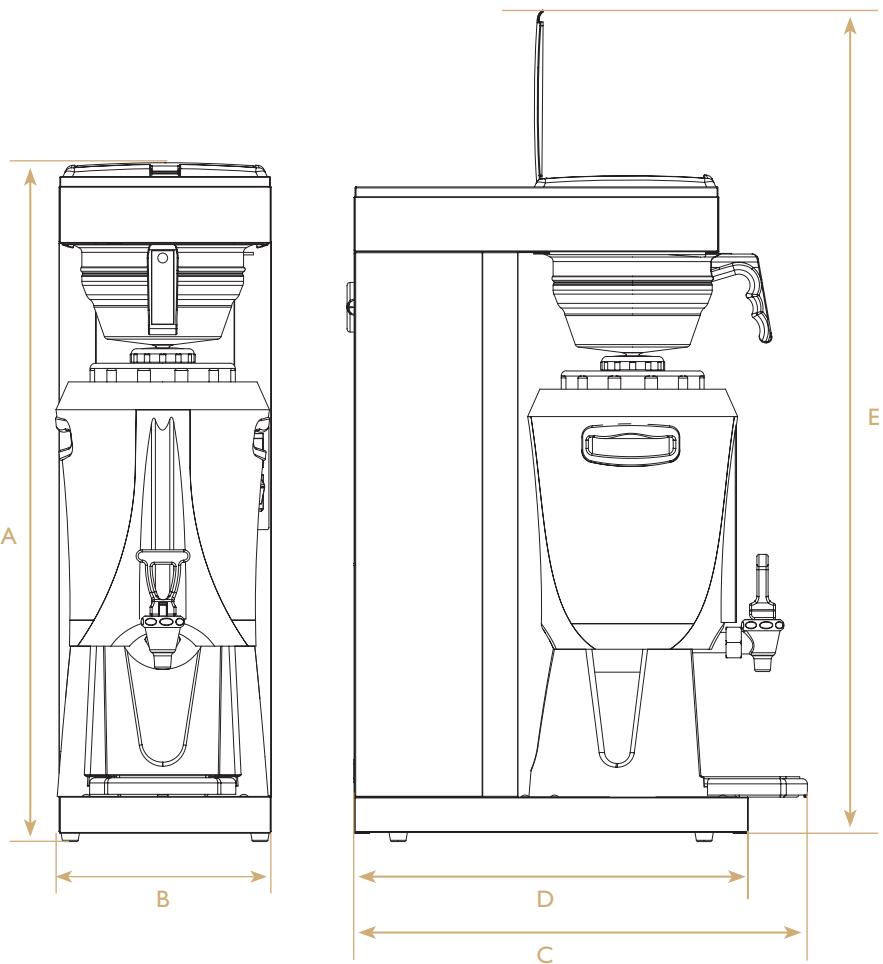
Model	A	B	C	D	E	F
DA-4/DM-4	410mm	410mm	428mm	595mm	578mm	360mm

Thermos A/M



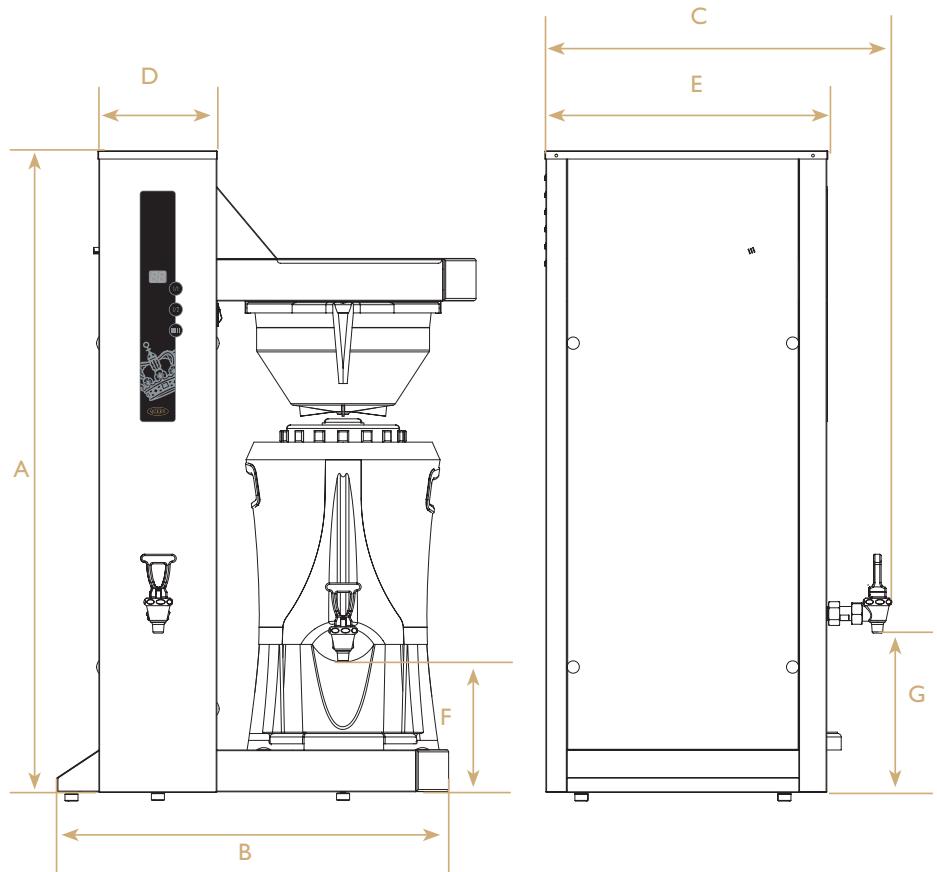
Model	A	B	C	D	F
Thermos A/M	557mm	205mm	410mm	708mm	360mm

Mega Gold A/M



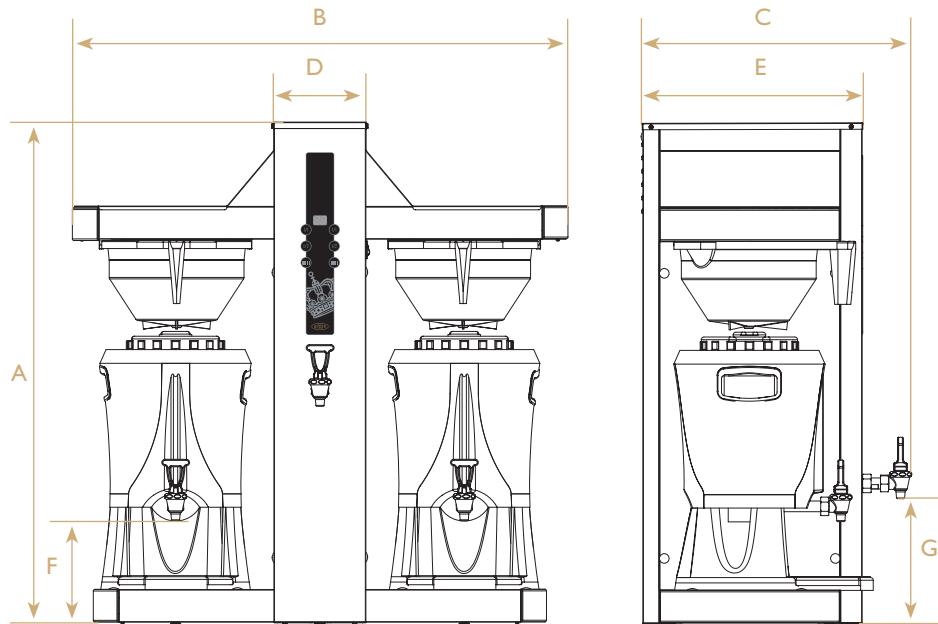
Model	A	B	C	D	E
Mega Gold A/M	655mm	205mm	445mm	390mm	806mm

Single Tower



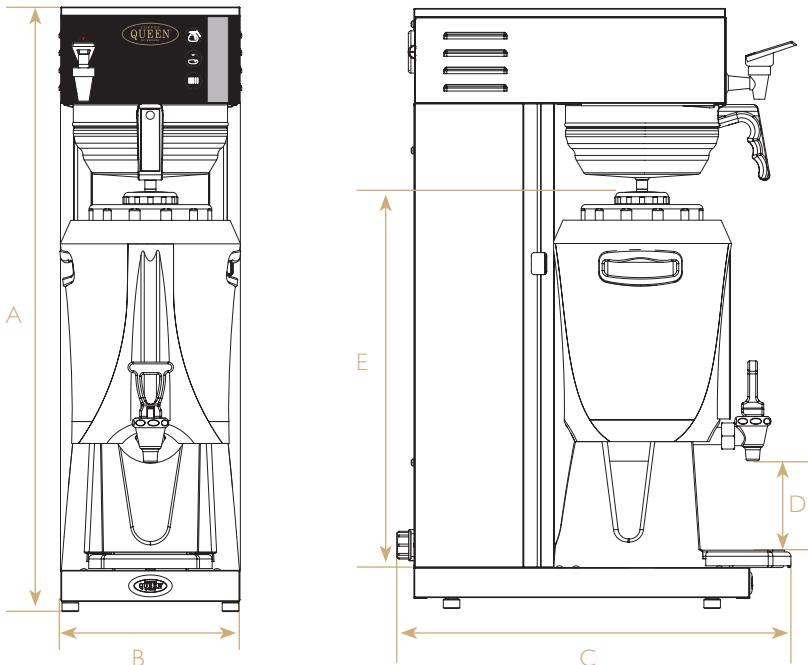
Model	A	B	C	D	E	F	G
Single Tower	934mm	610mm	500mm	174mm	410mm	233mm	244mm

Tower



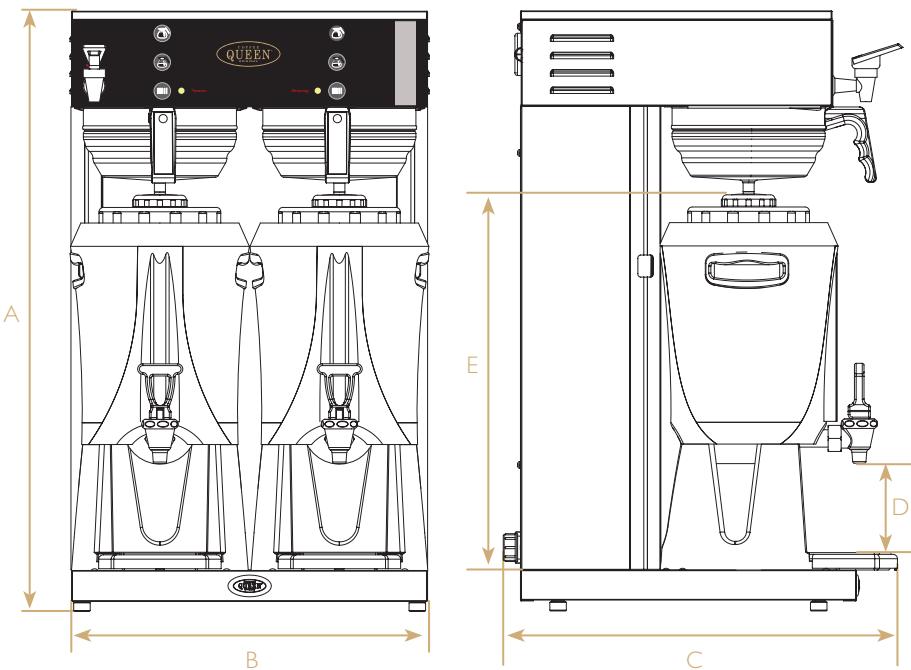
Model	A	B	C	D	E	F	G
Tower	934mm	928mm	500mm	174mm	410mm	233mm	244mm

Single Cater/Tea Cater



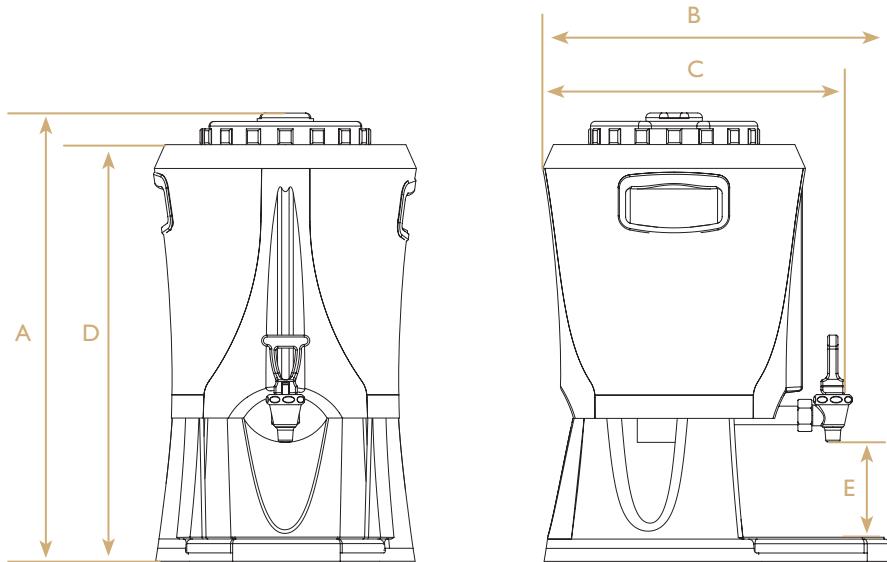
Model	A	B	C	D	E
Single Cater/Tea Cater	690mm	205mm	450mm	105mm	436mm

Cater



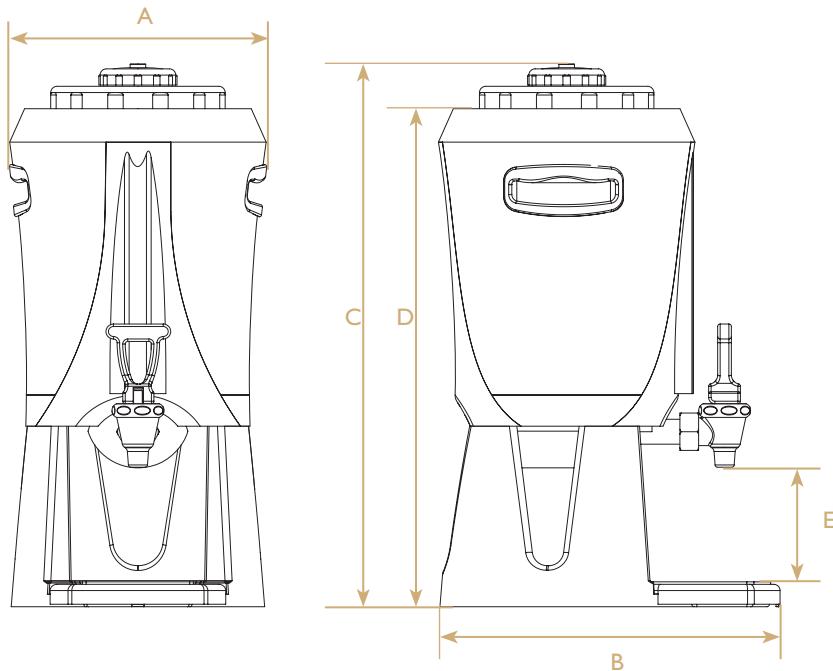
Model	A	B	C	D	E
Cater	690mm	410mm	450mm	105mm	436mm

Serving station 5L



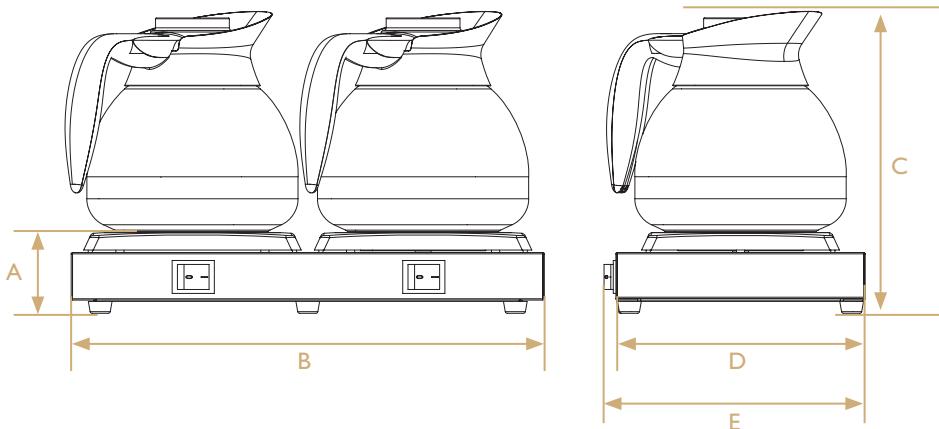
Model	A	B	C	D	E
Serving station 5L	483mm	373mm	325mm	449mm	110mm

Serving station 2.5L



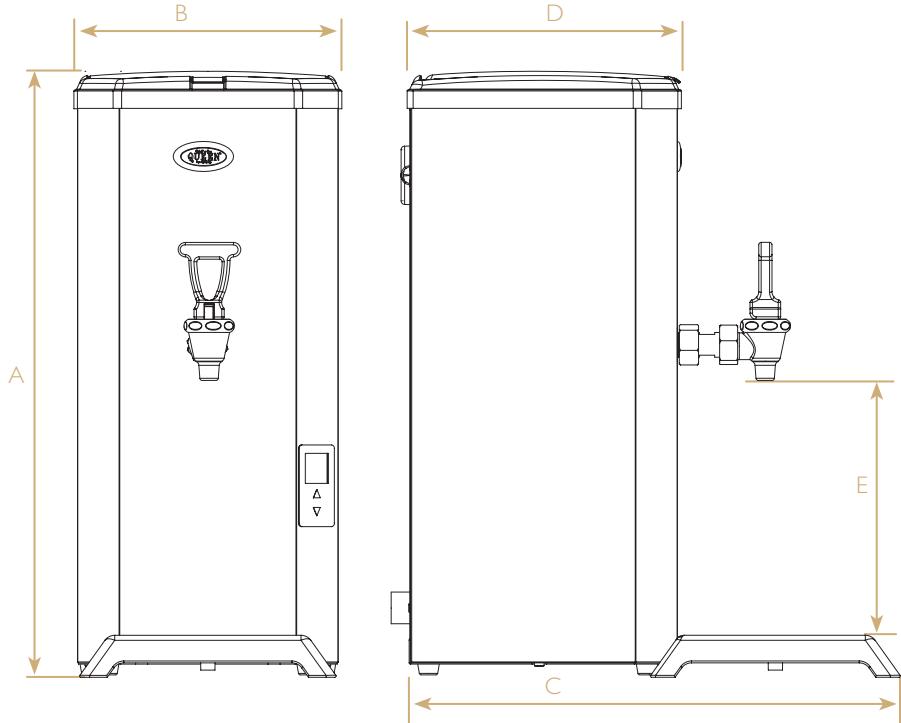
Model	A	B	C	D	E
Serving station 2.5L	205mm	273mm	436mm	400mm	105mm

| V-2



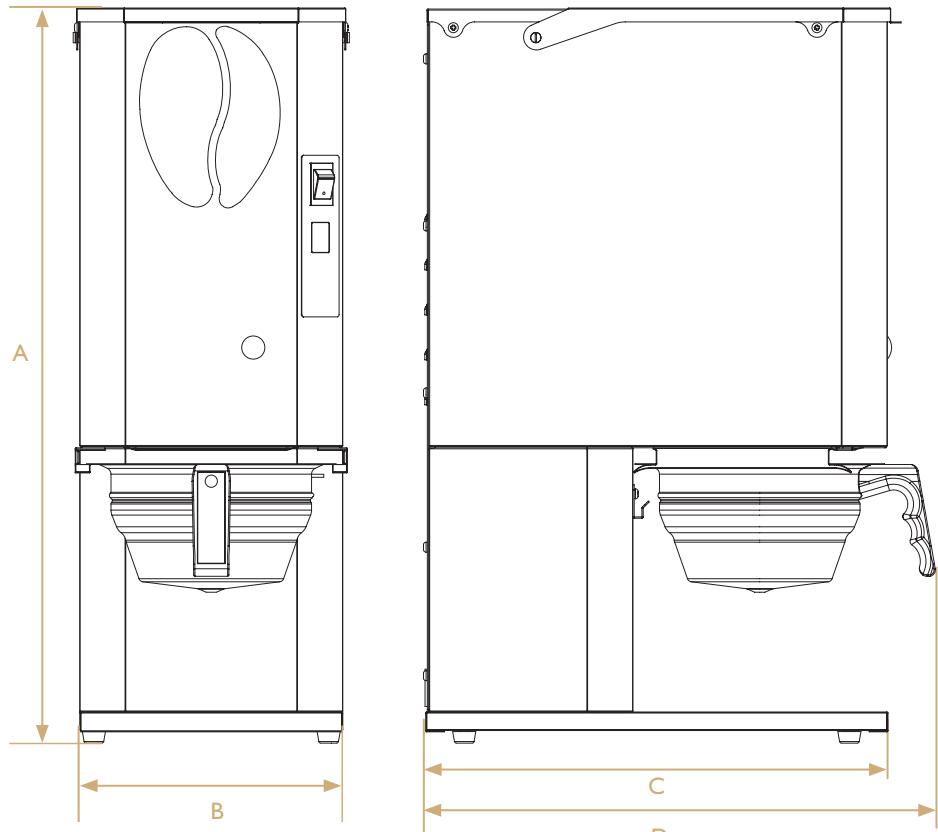
Model	A	B	C	D	E
V-2	62mm	359mm	230mm	189mm	198mm

HVA/HVM



Model	A	B	C	D	E
HVA/HVM 1 phase	500mm	225mm	410mm	240mm	210mm
HVA/HVM 3 phase	500mm	225mm	410mm	240mm	210mm

Grinder Original



Model	A	B	C	D
Grinder Original	570mm	215mm	368mm	390mm

For the warranty to be valid the conditions for maintenance must have been followed according to our instructions, proper precaution has been made and warranty claim been issued without delay.

The affected equipment may not be used during awaiting service if there is any risk that the damage or defect would worsen.

The warranty will not cover consumption supplies such as glassware, normal maintenance such as cleaning of filters, contaminations in water, lime, incorrect voltages, pressure or adjustment of water amounts.

The warranty will not cover damages of defects caused by incorrect handling and operation of the appliance.

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