

# scanomat®

*Pure Coffee*

## Users / Service manual PRO6 EU



Preliminary edition  
English edition

Version 1.00

Re-ordering no: 4300801



**Congratulations on your choice of Scanomat Coffee Brewer.**

**Should you have any questions regarding the coffee brewer and the operation of it please do not hesitate to contact us.**

**We are convinced that you will be pleased with your choice!**

### **Operation of the SCANOMAT Coffee Brewer**

The Scanomat coffee and coffee speciality brewers are high technology brewers which by means of a micro processor controlled brewing process dispenses various first class quality coffee drinks. Water is heated in the thermostatically controlled hot water tank with automatic water inlet. The water tank has built-in safety switches and an overflow leading to the drip tray. By means of an ingredient throw device the various instant products are led from the canisters to a brew chamber and here water is added. If necessary, the ingredients could be stirred mechanically in the brew chamber before the drink in question is led to the outlet spout. It is possible to choose between cup and jug dispensing.

### **Important:**

**Warning:**

**Please be aware of the danger of scalding (in the dispensing area) when dispensing the various hot drinks.**

**Warning:**

**Before cleaning, servicing etc. that require the opening of the front door, the switch situated in the delivery area must be switched off. The brewer has been switched off when the display light turns off and the fan stops.**

**Note:**

**Please be aware that the switch only disconnects control circuit, not the power supply.**



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## Technical specifications:

### Power supply:

230 VAC single phase with ground connection, or 400 VAC 2/3 phases with neutral and ground connection (Idle power consumption approx. 20 watt).

### Dimensions:

Height: 68.7 cm.  
Width: 37.5 cm.  
Depth: 40.3 cm.

### Water tank:

Hot water tank capacity: 5 litres.

### Weight:

Gross: 32 kg.  
Nett 30 kg.

### Water connection:

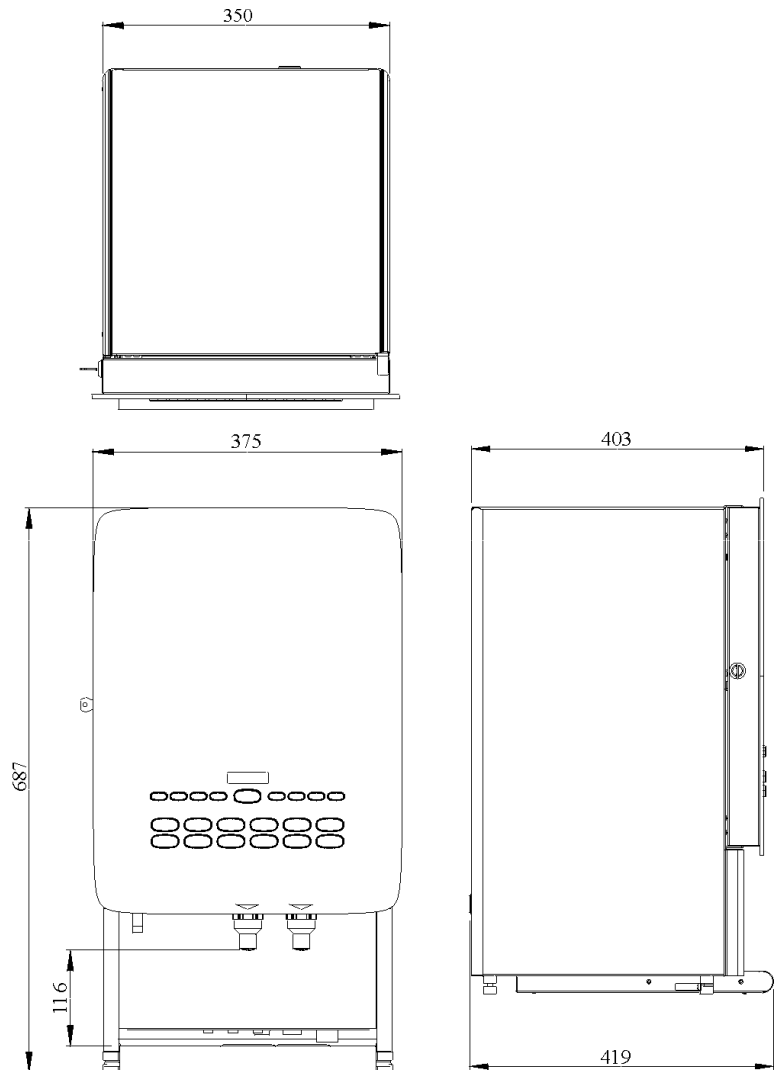
2-6 Kp/cm<sup>2</sup>

### Environment:

Temperature: 10-40° C.  
Humidity: max. 90% RH.

### Shelves / transportation:

Temperature: min 0° C.

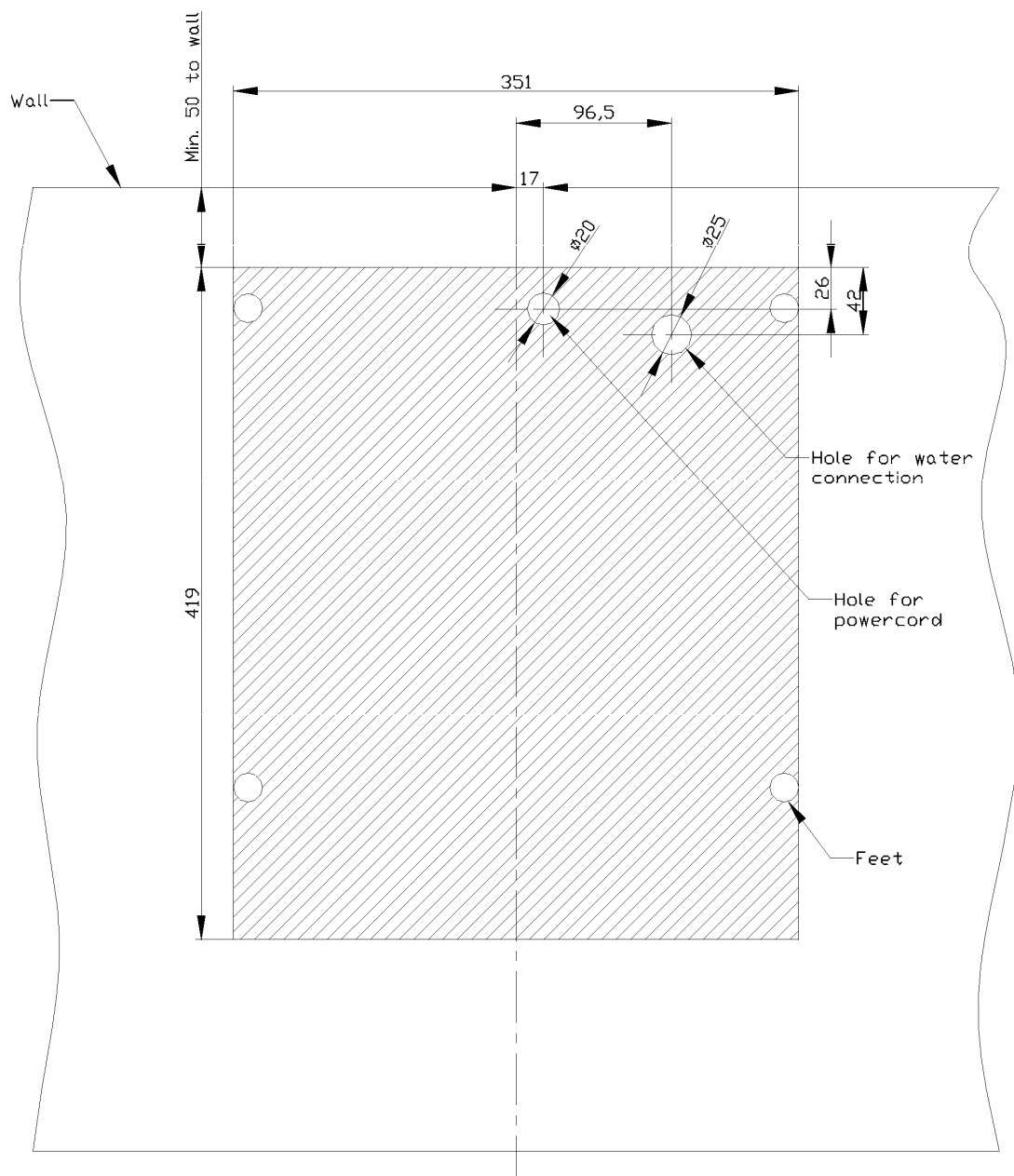






**Installation:**

The following installations must be provided		
1.	Electrical Single phase	230 VAC Single with ground connection
	2/3 Phase	Or 400 VAC 2/3 phase with neutral and ground connection (standby power consumption 20W)
2.	Water Inlet	Pressure 2-6 bar
		Flow rate min. 5l./min.
		Temperature 5-12 °C
3.	Table	See diagram below

**Table layout:**

**Service and repair is only to be carried out by service engineers educated by Scanomat.**

**The coffee brewer is to be secured additionally in accordance with regulations.**

**The coffee brewer must be earth connected (yellow/green conductor).**

**Note:**

If the supply cable (power cord) has been damaged, please note that only a maintenance engineer recommended by the manufacturer is to renew it, as special tools are required.

Earth conductor: yellow/green

Neutral conductor: blue

Phase: brown/black

**Note:**

Place the coffee brewer on a stable table, adjust the levelling feet until the brewer is level from front to back and side to side. Be certain all four levelling feet are in contact with the table to prevent rocking of the brewer. If there is a danger of the brewer falling down from the table it must be bolted down to the table top (unscrew the levelling feet and fasten by screwing through the table top).

**Note:**

The coffee brewer requires ventilation. Therefore there must be a minimum of 50 mm from the backside of the brewer to the wall. The grating must be inspected frequently and vacuum-cleaned. If the installation site/environment is especially dusty there must be vacuum-cleaned each month.

**Note:**

Before connecting the coffee brewer draw off some buckets of water by means of the hose (to clean the pipes and to avoid a disagreeable taste). This procedure is also recommended when the brewer has not been operating for some time.

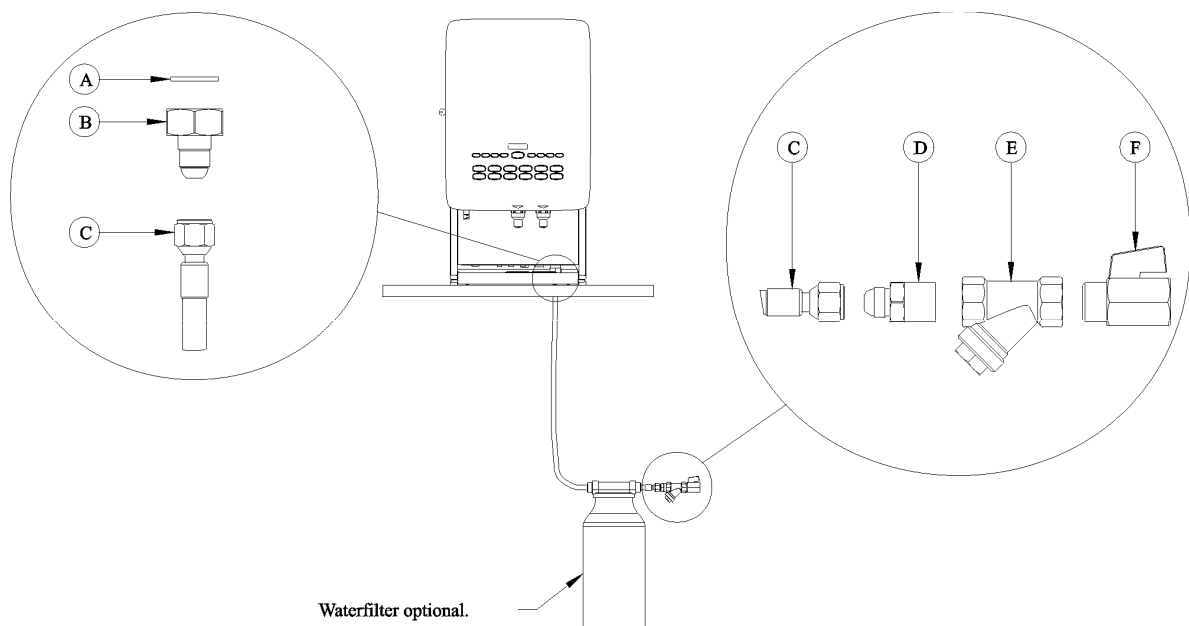
**Note:**

We recommend that the brewer be switched on permanently due to the ventilation system among others.

## Water connection:

When the water supply is being established please make sure that the coffee brewer is not situated on the rear end of the water supply system to ensure continuous supply of fresh water (see illustration below).

1. Connect the coffee brewer to the cold water line, which is equipped with an adjustable check valve (1/2" external screw thread G+F). Before connecting the brewer draw off some buckets of water to clean the pipes. If the water is not good quality we recommend that a Scanomat water filter is mounted



2. Fasten the hose nipple (C), which screws to the connecting nipple (B) (available in angled and straight version).
3. The connecting nipple is to be screwed on to the valve at the bottom of the coffee brewer.
4. Dirt filter (E) and nipple (D) are to be mounted.
5. The flange of the hose (C) is to be mounted on the nipples (D) and (B).
6. Turn on the water and make sure that all joints and connections are tight.

### **Note:**

If the water has a “off taste” when heated we recommend that the heated water is drained off the brewer and let the brewer take in fresh water.

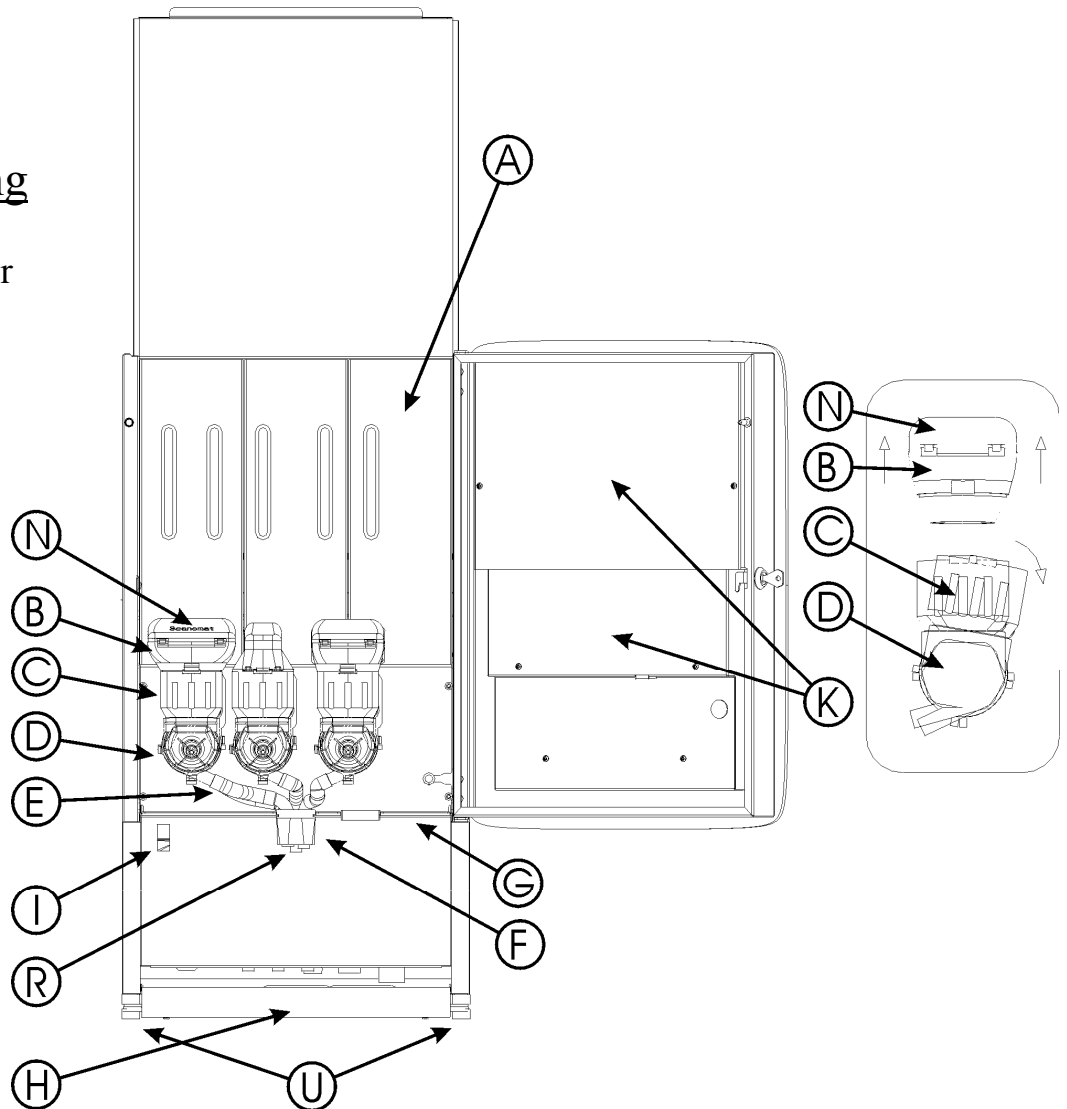
After long periods of inactivity (holidays or weekends) when the brewer has not been in operation for some time the water will lose its quality therefore we recommend activating the “clean programme”, perhaps a couple of times, in order to get fresh water into the tank. In special cases it could be necessary to empty the water tank completely by means of the drain hose and then let the brewer take in fresh water. This operation could be repeated if necessary.

It is important that the inlet water supply in a primary supply with its own ‘stopcock’ this is to ensure that during daily operation there is a constant water pressure at the inlet.



**Maintenance:****General Drawing**

- A Ingredient canister
- B Ingredient funnel
- C Mixer bowl
- D Whipper house
- E Outlet hose
- F Outlet holder
- G Whipper tray
- H Drip tray
- I Main switch
- K Cover plate
- M Canister lid
- N Mixer lid
- O Whipper blade
- R Outlet tube
- T Mesh
- U Levelling legs

**Important:**

To maintain the high drink quality and efficient operating conditions it is of the utmost importance that all components that are in contact with the drinks are kept clean.

**Important:**

Machines dispensing beverages and shakes must be manufactured, installed and operated in a way that leaves absolutely no risk of impairing or ruining the beverages and shakes. All operations must follow the HACCP regulation.

**Important:**

Do not immerse the coffee machine into water and do not use high pressure cleaner

**Note:**

A high degree of frequent daily maintenance secures a high level of trouble free operation of the coffee machine.

**Cleaning:**

**Caution:** Before starting the cleaning procedure make sure that the coffee brewer is switched off in order to avoid damages and injuries with hot water and moving parts. Make sure to switch the machine off at the machine ON/OFF switch (see point I on the General Drawing). Please note that only the low voltage control circuit will be cut off by this switch, if the internal covers are removed there will still be mains voltage to the required circuits heaters etc.



Turn off Power to Machine



Open door & flip open top lid



Remove canisters



Flip open mixer lids and click them out



Lift up and remove dispense nozzles



Turn mixer housing to right and pull out



Pull apart delivery nozzle and tube



Pull apart mixing bowl and whipper housing



Click out mixer blade and pull apart (see next page for details)



Place all parts in a warm soapy water and Clean thoroughly



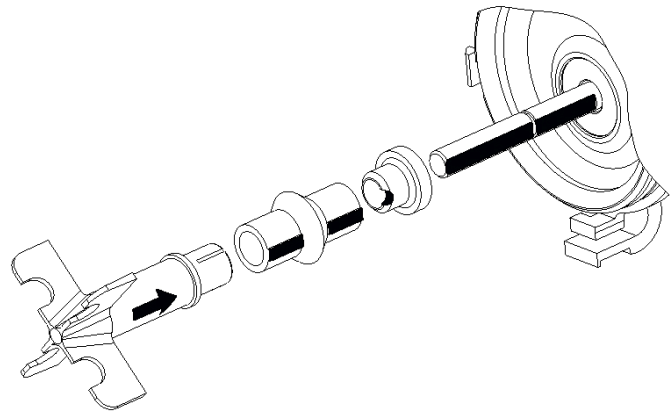
Carry out same procedure for all other mixer units

**Whipper blade assembly:**

The mixer blade pulls apart in 3 pieces. When re-assembling, please note that all 3 parts must be properly aligned, see drawing

First assemble the silicon gasket and the actual blade. Then push in the white teflon seal.

Finally mount the assembled whipper blade on the shaft pushing it in thoroughly until a click is heard.



Replace all parts in  
Correct order



Make a final check on  
the assembled parts in  
The machine



Wipe down inside  
the machine



Turn ON the machine,  
Place a jug under the  
dispense nozzles



Press the CLEAN button  
and the machine will do  
a rinse of all the ingredient  
mixer units



Close the door, place a  
cup and test the machine  
by selecting a drink

## Preventive maintenance:

The ingredient canisters are to be cleaned at regular intervals depending on the performance, usage and environment the machine is installed in, and furthermore the quality of the drinking water should also be taken into consideration.

- 1) Use hot water with a mild soap solution
- 2) Remove ingredient canisters.
- 3) Empty canisters and remove remnants, if any.
- 4) Dismount the ingredient throw auger by pulling out the two snap locks, thus it is possible to pull out the auger. Rinse auger and ingredient canister in the hot water with mild soap solution. **Do not re-install the ingredient canister and auger until they are completely dry.**
- 5) Re-mount the ingredient canisters and fill up with ingredients for one day's consumption. Please make sure that the canisters are completely dry before filling.

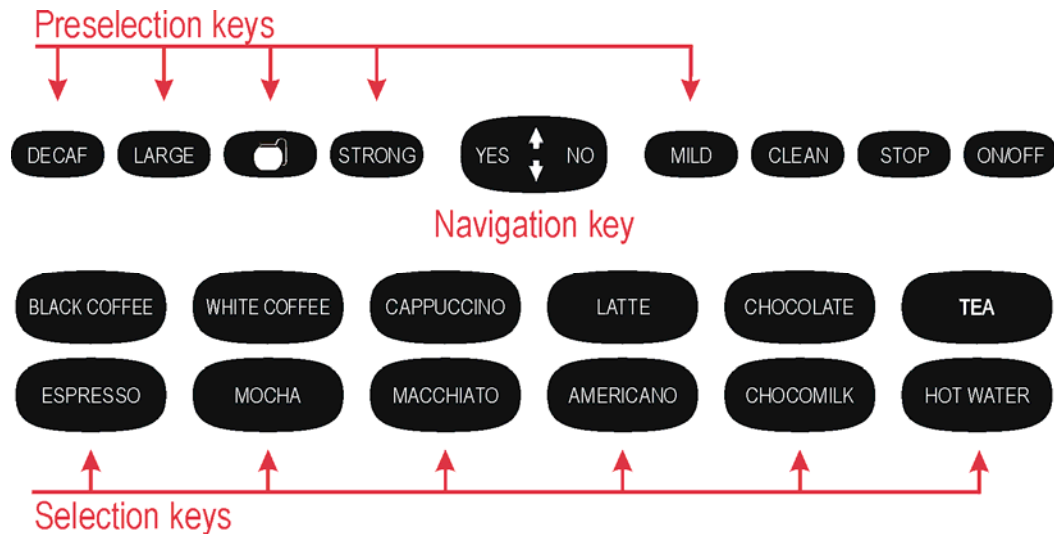
## Trouble Shooting:

<u>Problem</u>	<u>Possible cause / solution</u>
No operation at all	Main switch (I) may be off
Only water is dispensed	No ingredient in the canisters Make sure all augers are tuning when operating
A water tap symbol flashes in the display	Check that water supply has been connected Activate CLEAN programme
A thermometer flashes in the display	Press the RESET button on the back of the machine
Clogged mixing bowl or whipper	Dismount and clean the mixing units. (See daily maintenance)
Dripping from outlet spouts	Activate the clean programme a couple of times
Dripping from the overflow at the bottom of the machine	Activate the clean programme a couple of times
Display shows OVERLOAD	One of the whipper motors or auger motors are overloaded / clogged.



## Operational procedures:

### The keyboard:



### Selection buttons:

The selection buttons will, when the machine is operational, meaning water in the tank and warm enough dispense the selected drink. Place the cup at the appropriate position. If more positions, the right one, will be indicated on the front of the machine.

### Preselection buttons

These buttons will activate a pre selection to the next drink. The preselection buttons may differ from machine to machine and in some machines they may not all be active.

There is a time out of 15 seconds on all preselections.

Multiple preselections are allowed e.g. strong, carafe

Pressing NO or STOP will cancel all preselections

### Navigation button:

The navigation button is used to access the menu and programming system of your coffee machine. When in adjust mode the UP and DOWN keys have an automatic repeat function. This is activated by holding the key instead of just giving a single press. In that case the adjustment will “run” instead of just step.

### The Display:



The display will show relevant information in clear text, and in symbols.

The thermometer will blink, if the temperature in the water tank is too low for dispensing.

The water valve will blink if not sufficient water in the water tank.

## Turning the machine on and off:

There are 2 ways of turning the machine off. Either by pressing and holding the ON/OFF button for 2 seconds, or by switching the power off completely by activating the mechanical switch in the dispensing area.

Using the first option, will keep the electronic board running with a very low power consumption (less than 1 watt). As the internal watch in the machine is dependant on power, always select this way to turn the machine off, if you are using this. When the machine is OFF, the light in the display will be gone, and only the Scanomat logo will be active.

Switching back on is done by pressing the ON/OFF button, or if this setting is active, by pressing a selection button

## Dispensing a single standard drink:

Place a cup under the proper dispensing outlet and press the selection button. If more than one outlet is available, a graphic on the front of the machine will show which selections correspond with which outlets. While brewing the display will show the name of the selected drink



It is not possible to interrupt the dispensing of a single drink.

## Preselections:

Apart from the direct selection buttons, a number of preselection possibilities are available, these will be explained in detail hereafter. The preselections can be used more than one at a time, for example a carafe of strong decaf coffee is possible, if the machine has all these 3 options available. To cancel any preselection, press STOP or NO. All the preselections are controlled by a timer meaning that if no selections is made within 15 seconds after the preselection, this will time out. After the drink is dispensed, all preselections are reset, so if e.g. 2 strong coffees are wanted the, strong needs to be pressed before each cup.

## Dispensing carafes:

Making a carafe of any product in this machine is always carried out as making a number of cups of the selection in question.

Place a carafe under the proper dispensing outlet. If more than one outlet is available, a graphic on the front of the machine will show which selections correspond with which outlets. Either press a direct carafe button, if such is available on the keypad, otherwise use the navigation button to scroll up to a carafe. The display will show:



While brewing the display will show the name of the selected drink and the number of cups left for this carafe.

Pressing STOP or NO any time during a carafe brew will terminate the brewing **after** finishing the ongoing cup.

### Dispensing decaf selections:

If the machine is equipped with DECAF coffee, it is able to dispense all selection containing coffee or espresso in a decaf version. Press the DECAF pre-selection and the display will show



Pressing a selection will now dispense the corresponding drink with all coffee or espresso products substituted with decaf coffee. If the selection is a drink without any coffee or espresso in it e.g. a chocolate, the preselection will not influence the drink.

### Dispensing large cups:

When large is selected, the machine will dispense a cup, which is a certain percentage larger than the standard cup. This means that a large cup is not necessary the same size for all selections.

Either press the direct LARGE button, if such is available on the keypad, otherwise use the navigation button to scroll up to LARGE. The display will show:



Then press the desired selection.

### Dispensing strong or mild drinks:

It is possible to adjust the strength for each individual drink by pressing STRONG or MILD prior to pressing the selection. The strength can be adjusted in +/- 10 steps. The display will show:



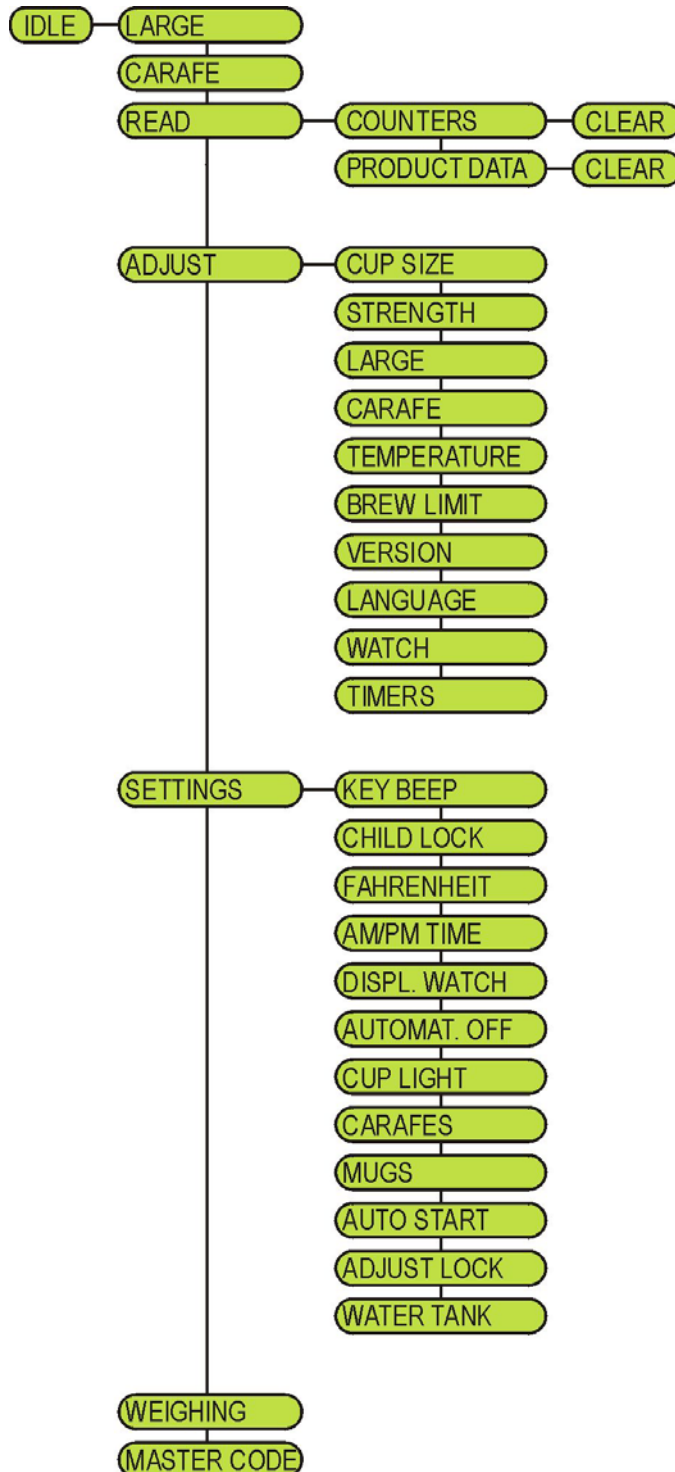
Which product in the drink that is influenced by this preselection varies from selection to selection. E.g. in a Cappuccino, strong and mild will affect the coffee only.

## The menu:

Using the navigation button, the menu system for accessing all audit data, adjustments and settings of the machine can be reached. Pressing the arrow up and down, YES to enter a function, NO to go back one step, does the navigation through the different menus.

Please note that not all menu points described in this manual is available in all machines, as this can vary with different configurations.

The following sketch shows an overview of the complete menu system.



**Reading out data from the machine:**

Some data can be read out your coffee machine directly from the keyboard. Number of possibilities may vary from configuration of your machine Press the navigation button UP until following appears:



Press navigation button YES, and the first adjustable parameter will appear in the display. Pressing UP and DOWN will scroll between the possibilities.

**Reading the cup counters:**

Enter the read menu as described above, scroll to:



Press YES, and the display will show:



3157 being the total number of cups dispensed, including any cups, which were parts of a carafe. When the above display is shown, the individual cup counters for each selection can be read by pressing the selection buttons accordingly.

**Clearing the cup counters:**

Depending of the configuration of your machine, it may be possible to clear the cup counters (set them all to 0).

Clearing the counters also requires the machine to be in SERVICE KEY mode.

Use the procedure above to read out the total cup counter. When the total is in the display, press CLEAN, and the display will show:



Press YES to clear all the counters or NO to go back.

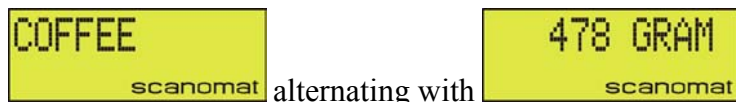
### Reading the product data:

If your machine is running with the quality key system, either based on the magnetic keys or the contact less TAGS, the amount of products in the memory can be read out.

Enter the read menu as described above, scroll to:



Press YES, and the display shows (example):



Pressing UP and DOWN allows you to scroll through the different products in your machine. Press NO to go back.

### Clearing the product data:

Depending of the configuration of your machine, it may be possible to clear the product data (set them all to 0). This will cause the machine to be locked against dispensing until new quality keys has been inserted.

Clearing the product data also requires the machine to be in SERVICE KEY mode.

Use the procedure above to read out the product data. When these total is in the display, press CLEAN, and the display will show:



Press YES to clear all the product data or NO to go back.

### Adjusting the machine:

A lot of different parameters in the machine can be adjusted directly from the keyboard. Press the navigation button UP until following appears:



Press navigation button YES, and the first adjustable parameter will appear in the display. Pressing UP and DOWN will scroll between the possibilities.

### Adjusting cup sizes:

The cup size can be adjusted for each selection independently. The pre-programmed cup size is referred to as 100% and not as a fixed volume, as the size may differ from selection to selection.

Enter the adjust menu as described above, scroll to:



Press YES and the display shows:



Press a selection button and the display shows:



Press UP or DOWN to reach the desired level and press YES to confirm. The machine will then return to:



and a new selection can be adjusted or the function can be abandoned by pressing NO.

### Adjusting drink strength:

The drink strength can be adjusted for each product for each selection independently. The pre-programmed strength is referred to as 100% and not as a fixed amount, as it differs from selection to selection.

Enter the adjust menu as described above, scroll to:



Press YES and the display shows:



Press a selection button and the display shows (example)



This is pre-programmed amount of COFFEE in the selected drink. Press UP or DOWN to reach the desired value and YES to confirm. If the selected drink has more than one adjustable ingredient, the procedure will be repeated. When no more adjustable ingredients in the current selection, the display will return to:



Either select a new drink to adjust, or press NO to go back.

### Adjusting large:

The large function is a way to make a selection a percentage bigger than the standard cup size for a selection. This is calculated as adding a percentage to the pre-programmed size.

Note that if the large function is not active in your machine, this parameter will not appear in the adjust menu.

Enter the adjust menu as described and scroll to:



Press YES and the display shows:



Press UP or DOWN to reach the desired value and YES to confirm.



**Adjusting carafe:**

The carafe function is a way to make number of cups of a selection. Depending on the configuration of your machine, it may have 1, 2 or 3 different carafe sizes (small, medium and large).

Note that if the carafe function is not active in your machine, this parameter will not appear in the adjust menu.

Enter the adjust menu as described and scroll to:



Press YES and the display will show:



S indicating the small carafe. Press UP or DOWN to reach the desired value and YES to confirm.

This way all 3 possible carafe sizes can be adjusted.

**Adjusting the temperature:**

This is the working temperature of the boiler in the machine, and not the actual temperature of the dispensed drink. This is lower due to mix with products and handling inside the machine. The temperature of the tea water will be within 5° of this setting.

Enter the adjust menu as described and scroll to:



Press YES and the display will show:



Press UP or DOWN to reach the desired value and YES to confirm. A max limit for this adjustment is pre-programmed into the machine preventing you from setting the temperature too high.

### Adjusting the brew limit:

The brew limit is the lowest temperature of the boiler, where the machine will allow dispensing of drinks. If the temperature of the boiler is below this value, the thermometer icon in the display will be blinking.

Enter the adjust menu as described and scroll to:



Press YES and the display will show:



Press UP or DOWN to reach the desired value and YES to confirm. A min limit for this adjustment is pre-programmed into the machine preventing you from setting the value too low.

### Adjusting version:

Your coffee machine MAY be programmed with more than one set (version) of recipes. If this is the case, you can switch between these different set by adjusting the active version.

Enter the adjust menu as described and scroll to:



Press YES, and the display will show:



Press UP or DOWN to reach the desired value and YES to confirm. If you adjust the version to a position in which no recipes are programmed into your machine, the result will be the display showing:



When ever a selection key is pressed.

**Adjusting the language:**

Your coffee machine may be programmed with different display languages. To select the desired language first enter the adjust menu as described and press UP or DOWN until the display shows:



Press YES, and the current language will be displayed. Press UP or DOWN to reach the desired language and YES to confirm. If the desired language is not programmed into your coffee machine, the texts will be in English.

**Adjusting the watch:**

Your coffee machine is equipped with a watch. The watch is running on the external AC, counting the pulses from the power supply. This means that if the mains is cut off, the watch will stop. So in order to keep the watch running and accurate, the machine can only be switched off by means of the keyboard. See section “Turning the machine on and off”.

Enter the adjust menu as described and press UP or DOWN until the display shows:



Press Yes, and the display will show the current time with the minutes blinking. Adjust these by pressing UP or DOWN and YES to confirm. Adjust the hours in the same way.

### Adjusting the timers:

Your coffee machine is equipped with 4 programmable timers. These are designed to power the machine down in certain periods. The timers are all 24 hour based, meaning that not weekly or monthly functions are available.

Enter the adjust menu as described and press UP or DOWN until the display shows:



Press YES, and the display will show (example)



With the minutes blinking. OFF indicating that this is the time where your coffee machine will power off. Use the UP, DOWN and YES to adjust this time, and thereafter repeat the procedure with the ON time. After that, you will get the option to activate or deactivate the timer in question.

Example: If you want your coffee machine to power down between 23:00 in the evening and 6:00 in the morning, adjust the timer1 to OFF : 23:00 and ON : 6:00 and set it to activated.

If you are using more than one active timer, make sure that the timer periods are not overlapping.

You do not need to go through all timer adjustment to set just one. When finished with one timer, simply press NO to go back out.

**Machine settings:**

The machine settings are a lot of different parameters, which can be selected or deselected by you. . Press the navigation button UP or DOWN until following appears:



Press YES and the display will show:



Use UP and DOWN to scroll through all the different settings and press YES to change the setting currently in the display and following will appear (example):



Press YES and the current status will appear in the lower line of the display. Use UP or DOWN to alter this and YES to confirm.

**Key beep:**

Is simply the response sound when you press a button on the keyboard.

**Child lock:**

Is a function to prevent children from unintentionally activating your coffee machine. If this function is active, taking a selection is done by first pressing YES, and while holding this pressed, pressing the selection button. Pressing the selection button alone in this mode will cause an alarm, and the display will show:

**Fahrenheit:**

Is an option to have the temperature in the boiler displayed in Fahrenheit en stead of Celsius (or centigrade).

**Am / Pm time:**

Is selecting between the Am / Pm way of showing the time and the 24 hour system.

**Display watch:**

Is choosing whether the watch should appear in the display, whenever your coffee machine is in idle mode.

**Automatic off:**

If this setting is activated, your coffee machine will automatically turn itself off, if has been inactive for 15 minutes.

### **Cup light:**

Your coffee machine may be equipped with a light illuminating the dispensed drinks. If this is the case, it can be activated or deactivated by means of this function.

### **Carafes:**

If your machine does not have the direct carafe buttons on the keyboard, the menu activated carafe function can be activated or deactivated by this function.

### **Mugs:**

If your machine does not have the direct large button on the keyboard, the menu activated large function can be activated or deactivated by this function.

### **Auto start:**

If this function is active, pressing a selection button when your machine is off will cause it to turn on, heat up, and dispense the selection when it is ready.

### **Sugar:**

Your coffee machine may be equipped with a sugar preselection possibility. If so, the function can be activated or deactivated here.

### **Adjust lock:**

If adjust lock is activated, the menu system is locked out, so only carafe, large and read are available. To enter the rest of the menu, the machine must be in SERVICE KEY mode. Note that setting this function to active is irreversible, unless you have the option to go into SERVICE KEY mode.

### **Water tank:**

Your coffee machine may be equipped with as well external water supply as an internal cold-water reservoir. If this is the case, selecting between these 2 options is done by this function.

### **Weighing:**

Weighing is a programme, where drinks are dispensed without water and whipping. The purpose is to verify the dispensed amount of products in the drinks.

Press the navigation button UP or DOWN until the display shows:



Press YES and the display will show (example):



Pressing a selection button will now cause the machine to dispense the CHOCOLATE product included in this drink. If the selected drink does not contain CHOCOLATE, nothing will happen.

Use UP and DOWN to select between the different products in the machine.

To get an average, take at least 5 portions before weighing it.

**Service key mode:**

Service key mode is a mode, which allows extra functions depending of the configuration of your machine.

There are a number of possible ways to enter this mode:

If your machine is equipped with the quality key system, either based on magnetic cards or contact less TAGS, a service mode key or TAG has been supplied with the machine.

If neither, the Service key mode can be obtained by pressing a sequence of buttons on the keyboard. There may be a maximum delay in between 2 presses of 1 second.

The code is al follows:

DECAF/SMALL CARAFE  
UP  
STRONG  
MILD  
DOWN  
LARGE/MEDIUM CARAFE

The machine will acknowledge by a sound.

The service key mode is left automatically after 30 seconds without any buttons being pressed.





# Connection chart:

