

# **Rocket R 58**

## Dual Boiler Espresso Coffee Machine

## Contents

<i>Rocket RE 58 Dual Boiler espresso machine</i>	3
<i>Important safeguards</i>	4
<i>Introduction</i>	5
<i>Instruction for use</i>	6
<i>Installation</i>	10
<i>Technical data</i>	11
<i>Start up</i>	12
<i>Programming the machine</i>	13
<i>Preparing espresso</i>	18
<i>Dispensing steam</i>	20
<i>Dispensing hot water</i>	21
<i>How to make great espresso</i>	22
<i>How to texture milk</i>	23
<i>How to clean your Rocket R 58</i>	25
<i>How to disassemble/dismantle the machine</i>	27
<i>Routine Maintenance</i>	28
<i>Espresso glossary and recipes</i>	29
<i>Trouble shooting</i>	30
<i>Setting the pump pressure</i>	32
<i>Connection to water supply</i>	33
<i>Alarm messages</i>	34
<i>For European Community countries: declaration of CE conformity</i>	35

## Rocket R 58 Dual Boiler espresso machine

Most dual boiler PID espresso machines measure the water temperature used for the extraction in the brew boiler. The boiler temperature reading is then converted into a “group extraction” temperature. This information is misleading and inaccurate, as the digital readout does not display the real temperature at the group rather the temperature the manufacturer wishes the user to see.

**Rocket Espresso measure the boiler temperature and display the boiler temperature.**

PID displayed boiler temperature		Group temperature measured using SCASE (*) Ambient temperature (**)	
103 °C	217.4 °F	90.8 °C	194.0 °F
104 °C	219.2 °F	91.7 °C	195.8 °F
105 °C	221.0 °F	92,0 °C	197.6 °F
106 °C	222.8 °F	93.5 °C	199.4 °F
107 °C	224.6 °F	94.6 °C	201.2 °F
108 °C	226.4 °F	95.3°C	203.0 °F
109 °C	228.2 °F	96.2 °C	204.8 °F

(\*) The “SCASE” Thermofilter elevates the art of espresso by employing applied measurement science. Very convenient brew temperature measurements are now possible through use of the Thermofilter. The results of these measurements enhance machine optimization for specific coffee blends, enable individual coffee shops to establish enhanced quality control procedures for their machinery, and increase knowledge of the thermal behaviour of espresso machines. This knowledge is immediately useful in compensating for intermittent duty machine behaviour. The Thermofilter enables performance comparisons of different espresso machines and technologies by use of systematic testing protocols. Accurate temperature studies will result in new machines with enhanced tuneability and stability that produce better taste than ever before.

The Holy Grail of temperature devices? Well, let’s just say, that this is the state of the art of something big. How big? Nobody knows for sure. However new machines coming to the market are being evaluated with this device, and the current World Barista Championship (WBC) and United States Barista Competition (USBC) technical standards teams all use this device to test and evaluate the machines used in competitions.

(\*\*) Ambient temperature 19°C. (66.2 °F)

# **Important Safeguards**

- 1. Read all Instructions*
- 2. Do not touch hot surfaces. Use handle or knobs.*
- 3. To protect against electric shock do not immerse cord and plugs in water or other liquid.*
- 4. This 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 use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.*
- 5. Unplug from outlet when not in use and before cleaning. Allow to cool before putting on or taking off parts.*
- 6. Do not operate any appliance with a damaged cord, plugs, or after the appliance malfunctions or has been damaged in any manner. Return appliance to the nearest authorized service facility for examination, repair, or adjustment.*
- 7. The use of accessory attachments not recommended by the appliance manufacturer may cause injuries.*
- 8. Do not use outdoors.*
- 9. Do not let cord hang over edge of table or counter, or touch hot surfaces.*
- 10. Do not place on or near a hot gas or electric burner or in a heated oven.*
- 11. Extreme caution must be used when moving an appliance containing hot oil or other hot liquids.*
- 12. Always attach plug to appliance first, then plug cord into wall outlet. To disconnect, turn any control to "off", then remove plug from wall outlet.*
- 13. Do not use appliance for other than intended use.*
- 14. Save these instructions.*

# **Introduction**

*Please read this technical handbook carefully since it provides important information on the correct installation, use and maintenance of your coffee machine.*

*The information contained in this manual is necessary for the safe installation and operation of your coffee machine. It should be retained in a safe place for future reference. Copies are available from your local dealer.*

*The information contained in this manual relating to installation and operation is not a substitute for safety instructions and technical data affixed to the machine and/or its packaging.*

*The manual provides information that is current at the time of publication. The information is subject to amendment or alteration without notice.*

*Your machine should only be operated in accordance with instructions contained in this manual and verbal instructions and training provided by an authorised Rocket Espresso Ltd. dealer.*

*Installation and maintenance should only be carried out by technicians and service providers authorised by Rocket Espresso Ltd.*

*Rocket Espresso Ltd. accepts no liability for injury and damage to person, persons or property caused by incorrect installation, misuse, and user negligence, neglect of the machine or any other circumstances beyond its control.*

# **Instructions for use**

*This machine has been designed for the sole purpose of producing coffee, hot water and steam for hot beverages.*

*All other uses are outside of the scope of this machine and, therefore, dangerous and hazardous.*

*The machine has been designed from safe, accessible, durable components and materials and manufactured to the highest standards for use only in home / domestic environment.*

*The machine should not be exposed to elements such as sunlight, rain, snow, extreme temperatures etc.*

*The machine must be operated by responsible adult persons who know the use of the equipment and should not be used by children, minors or untrained persons.*

*To protect against electric shock do not immerse machine, cord and plugs in water or other liquid and do not ever let the machines internal parts come in contact with liquids.*

*The user should be fully conversant with safety operating procedures contained in the manual and should follow the instructions and advice provided with.*

*To ensure maximum performance efficiency, it is essential that technical service and maintenance is carried out exclusively by Rocket Espresso Ltd. authorised technicians.*

*It is the responsibility of the user to notify the manufacturer of any defects or damages which may affect the safety of the original installation or future safe operation of the machine.*

*The user must respect the safety regulations at the point of installation. The user must check the surrounding areas to ensure safe and hygienic use is guaranteed.*

*The machine component's manufacturers are responsible for the parts supplied by them. The customer is responsible for the personal use of the equipment.*

*It is the responsibility of the user to ensure that the location of the machine is hygienic, and that its continued safe operation can be guaranteed.*

*When the machine is not being used for long periods of time, the hydraulic systems should be drained completely and the machine stored in a temperature above freezing (0°C or 32°F). This will prevent the hydraulic system from freezing which could damage internal pipes and boiler.*

*This appliance is intended to be used in household and similar applications such as:*

- *staff kitchen areas in shops, offices and other working environment*
- *farm houses*
- *by clients in hotels, motels and other residential type environments*
- *bed and breakfast type environments*

*If the appliance should be connected to the water mains:*

- *The maximum inlet pressure is 0,4 MPa*
- *The minimum inlet pressure is 0,1 MPa*
- *You must use the new hose-sets supplied with the machine. Do not reuse old hose-sets.*

*All spare parts fitted to the machine must be original Rocket Espresso Ltd. components.*

*Before any cleaning or maintenance the machine should be disconnected from the electric supply.*

*Never pull the electrical supply cable.*

*When cleaning the machine never use caustic or abrasive cleaning chemicals.*

***To avoid electric shocks:***

- *Do not immerse machine itself, cord and plugs in water or other liquid and do not ever let the machines internal parts come in contact with liquids.*
- *Ensure that the machine is installed with a proper earth/ground in accordance to local safety practises, codes and legislation.*
- *Prevent the power cable from being stretched, or pulled tight.*

- *Avoid using the machine with wet hands.*
- *Never operate the machine with bare feet.*

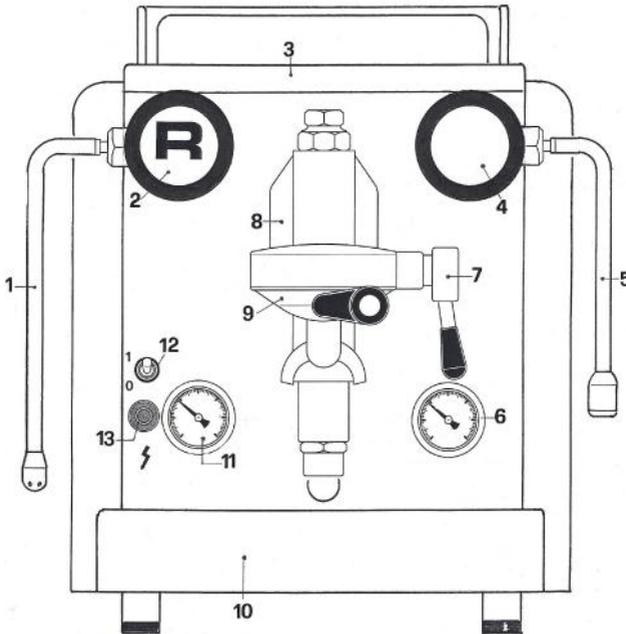
*Never operate the machine without ensuring the water reservoir contains water.*

*The machine must be operated with soft, clean drinking water. This means that there must be a minimum content of mineral in the water. If the local water supply has a high mineral content use a water softener. A build up of mineral deposit may restrict the flow of water within the hydraulic systems causing damage to the machine and risking personal injury.*

*The machine must be switched off whenever it is left unattended.*

## Description of components Rocket R 58

FIG. A



- 1 Steam wand. **Can become hot and cause burns.**
- 2 Steam valve handle: turn left to open, turn right to shut.
- 3 Cups tray. **Never pour any liquid on this tray! It will filter inside the equipment and cause electrical shocks and serious injuries. Danger!**
- 4 Hot water valve: turn left to open, turn right to shut.
- 5 Hot water wand. **Can become hot and cause burns.**
- 6 Pump pressure gauge
- 7 Lever. **It's metal parts can become hot and cause burns. Caution!**
- 8 Brewing head (group). **It's very hot and can cause burns! Caution!**
- 9 Filter holder. **It's metal parts can become hot and cause burns. Caution!**
- 10 Drip tray
- 11 Boiler pressure gauge
- 12 On / off switch
- 13 Control light machine "on"

# ***Installation***

*All machines are designed to ensure maximum possible user safety. It is, however, an important responsibility of the user to observe the following safety codes to further enhance safe installation and operation.*

- Always ensure that hazardous packing items such as plastic bags, Styrofoam, nails, etc. are properly disposed of to prevent accidental injury to children or other persons.*
- If there is evidence of defect or damage to the machine an authorised Rocket Espresso Ltd. dealer or technician should be notified immediately so that remedial action can be taken.*
- This machine is safe only when it has been correctly connected to an efficient earthing/grounding system. This should conform to local safety standards and legislation in force at the time of installation.*
- Installation of any Rocket Espresso Ltd. product should only be undertaken by duly authorised, properly trained and qualified personnel*
- Dangerous or improper electrical connections are extremely hazardous and should never occur.*
- Always check the integrity of the components elements of the machine.*
- Never fit defective or damaged spare parts. Always request replacement from Rocket Espresso Ltd. .*
- Before connecting the machine to electric supply, always check that capacity and power rating at least equals the power requirement of the machine.*
- Protect the user by fitting a circuit breaker to electric supply feeding the machine.*
- Never attempt to run the machine with water that is harder than 7°F.*

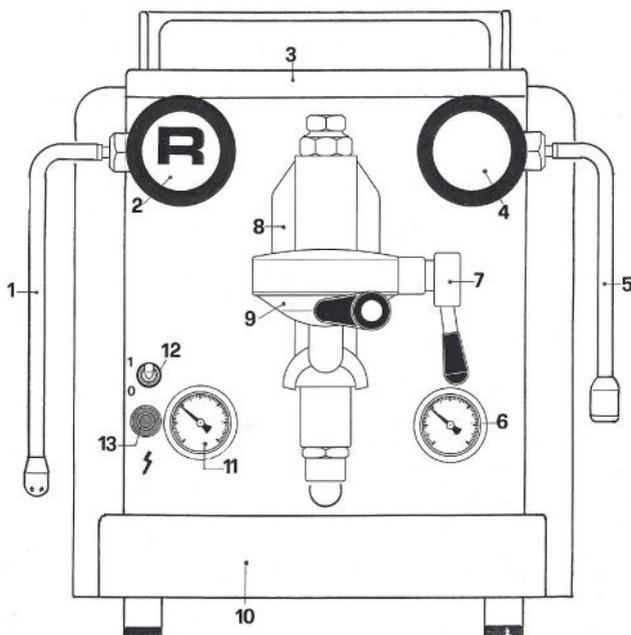
***This equipment is to be installed to comply with the applicable Federal, state, or local plumbing codes having jurisdiction.***

## Technical data

Bodywork	All stainless steel (AISI 304).
Brewing head	Commercial brewing head. Weight 4.05 kg (9 lb).
Pre-infusion	Dual pre-infusion system: mechanical pre-infusion system with progressively working piston and static pre-infusion chamber. This reflects a smooth coffee extraction with optimum aroma, body and “crema”.
Dual boiler system	Rocket R 58 machines come with one dedicated boiler for coffee water and one boiler for steam and hot water (service boiler). The guarantee of consistent performances.
Boilers	Coffee water boiler: 0.58 litre capacity. Copper made. External insulation. Service boiler: 1.7 litre capacity. Copper made. Boiler comes with lead free brass end plates and additional external insulation for optimum thermal retention. Optimised boiler capacity ratio to heater power. Results in fast heat up time.
Heaters	Coffee water boiler: 1.400 W Service boiler: 1.400 W Max. simultaneous power consumption: 1.550 W
Pump	Full commercial rotary type pump (not vibration type pump) with external pressure adjustment.
Temperature control of boilers	Electronic control by PID sensors inside the boilers for precise temperature control. True boiler temperature displayed on PID. Not a “calculated” group temperature display which does not accurately reflect the “true” group temperature.
Pressure gauges	One dedicated gauge for pump pressure and one for service boiler pressure control.
Stainless steel steam wand	With our cool-touch technology: anti-burn (only the nozzle gets hot); easy cleaning as milk doesn’t bake on wand; more efficient steam, as heat is not dissipated around the wand. Steam nozzle designed for easy milk foaming with fine texture.
Electronically controlled	Microprocessor controlled automatic level control of coffee water boiler, service boiler and fresh water reservoir, with low water level indication system.
Safety valve	Fully certified commercially rated safety valve.
Water supply	2.5 litre fresh water reservoir or alternatively by turning the control switch, steel braided direct water connection (hard plumbed) with full drip tray drainage system.
Dimensions (WxDxH)	31 cm x 44 cm x 41 cm 12.2 in x 17,32 in x 16.14 in
Weight	29 kg / 64 lb
Additionally	Full size commercial one and two cup filter handles and baskets. One blind filter. Metal tamper. Microfiber towel. Group cleaning brush. Full training guide and instructions (DVD and manual).

# Start up

Parts which can become hot and cause injuries. Caution!



*Never touch the following parts. They are or can become hot and could cause burns:*

- 1: Hot steam wand and spout*
- 2: Metal parts of steam handle*
- 4: Not insulated metal parts of hot water handle*
- 5: Hot water wand and spout*
- 7: Not insulated parts of lever*
- 8: Coffee brewing group*
- 9: Not insulated metal parts of filter holder*

## Programming your Rocket R 58 espresso machine

**Your machine is factory set to optimum working parameters. Nevertheless you can set your personal parameters using the remote controller (with display) to be connected to the machine.**

You can change the settings of the following parameters:

- Language
- Hard plumbing to mains or pour over operation
- Service boiler heating on or off. The service boiler is the one providing steam and hot water. If you plan to produce only coffee, you can switch the heating of this boiler off, so only the coffee water boiler (“brewing head boiler”) will be heated.
- The coffee water **brew boiler’s temperature is factory set to 105°C**. You can set the temperature between 95°C and 115°C. The factory setting of 105°C reflects to an extraction of around 92°C.
- The pressure of the **service boiler is factory set to 1,1 Bar**. It can be changed in a range in between 0,8 Bar and 1,3 Bar.

**Fig. D** Connecting the remote controller to the machine



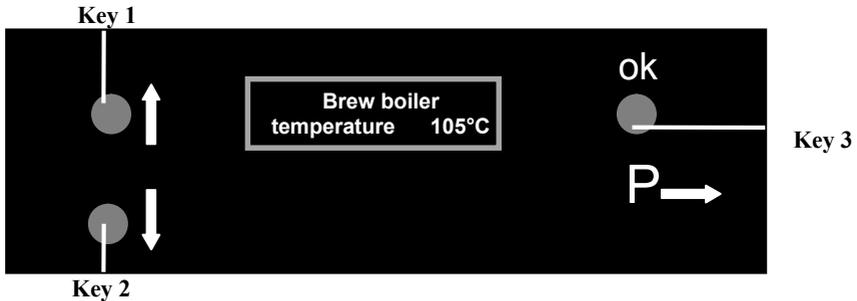
Please proceed as follows:

1. Switch the machine off (turning on/off switch Fig. A/12 to position “0”).
2. Plug the cable into the machine (see Fig. D/1). Port left hand lower side.
3. Now turn machine on (on/off switch Fig. A/12 to position “1”).



The machine is ready to be programmed.

The display reads:



This means the machine is in normal operation mode.

Please proceed as follows to enter programming mode.

1. Keep Key 3 pressed for at least 5 seconds until display reads "**Language**".
2. Press Key 1 or key 2 until the display reads the desired language.
3. Press Key 3 to confirm and to move to the next setting which is the selection of "**Water reservoir operation**" or "**hard plumbing operation**" of the machine.
4. Use Key 1 or Key 2 to program the desired operation and press Key 3 to confirm and proceed to the next setting which is enabling or disabling the heating of the hot water/steam boiler ("service boiler").
5. The display will read "**Service boiler heating: off**" or "**Service boiler heating: on**". Use Key 1 or Key 2 to program the desired option and confirm with Key 3. Please note that turning off the heating of the service boiler means operating only in coffee dispensing mode (using the coffee brew boiler only).
6. Use Key 1 or Key 2 to program the desired operation and press Key 3 to confirm and proceed to the next step which is setting the coffee **brew boiler temperature**. The factory setting is 105°C. The temperature can be set within a range from 95°C to 115°C.
7. Use Key 1 or Key 2 to program the desired temperature and press Key 3 to confirm and proceed to the next step which is setting the **service boiler pressure** (hot water/steam boiler). The pressure can be set within a range of 0.8 Bar to 1.3 Bar. Factory setting is 1.1 Bar.
8. Use Key 1 or Key 2 to program the desired operation and press Key 3 to confirm. Now the display reads again

**Brew boiler**  
**Temperature 105 °C** (or the pressure you set)

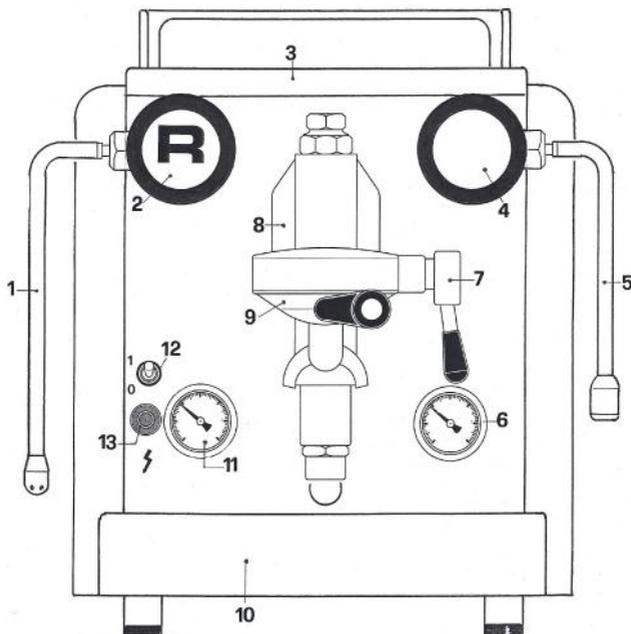
**Important:** For "operation" you must exit "programme" mode through the exit screen only.:

**Brew boiler**  
**Temperature 105 °C** (or the temperature you set)

**We assume the machine is properly installed**

**To use the machine with the direct water connection to the hydraulic circuit instead of the water reservoir refer to page 33.**

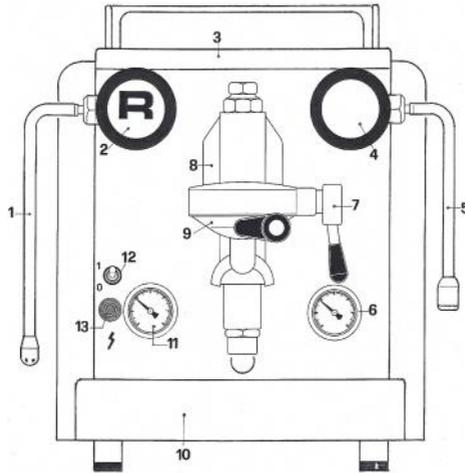
*Before starting using the machine, please control the following:*



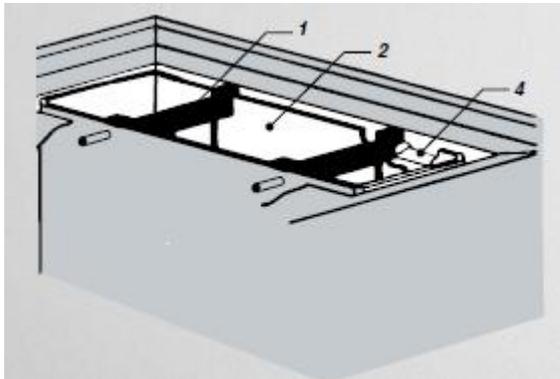
1. Lever (7) is completely down.
2. Steam handle (2) is closed.
3. Hot water handle (4) is closed.
4. On/off switch (12) is on position "0" =machine switched off
5. Machine is unplugged.
6. Drip tray (10) and its grid are properly positioned into the machine.

Now please proceed as follows:

**(A)**

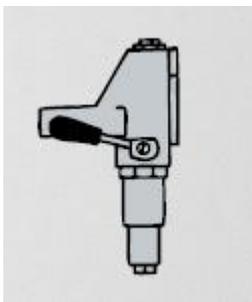


**(B)**

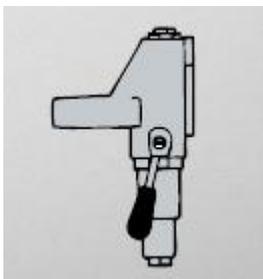


1. Remove the cover from the water reservoir Fig. B-2
2. Remove the water reservoir (Fig. B-2 and clean it carefully with food quality cleaning products. It's very important that the water reservoir is always clean! Please repeat this operation every day and whenever necessary.
3. Fill the water tank with fresh drinking water to just over  $\frac{3}{4}$  full.
4. Place the tank inside the machine taking care not to spill water.
5. Refer to page 33 for connection to the water supply.

6. Put on the cover on top of the water reservoir.
7. Plug in the machine.
8. Turn the on/off switch (A-12) to the on position "1" and open the steam handle (A-2). Boiler water fill starts (you will hear the pump's noise).
9. When the boiler is properly filled with water, the pump will stop (=no more noise). Now close the steam handle (A-2).
10. The heating up of the boiler water starts.
11. Wait till the boiler pressure gauge (A-11) reads approximately 1 bar.
12. Now open the steam handle (A-2) for 5 seconds to let out some steam. This operation is very important as it removes possible vacuum inside the boiler which will reflect in suction of milk inside the boiler itself once starting to steam milk. Close the steam handle (A-2) again.
13. Wait until the boiler pressure gauge (A-11) reaches again 1 Bar.
14. Pull the lever (A-7) completely up.



14. Allow a cup of water to come out of the coffee brewing group (A-8).
15. Pull the lever (A-7) completely down (water will stop flowing).



*Now the machine is ready for operation.*

### **Preparing one or two cups of espresso.**

*For the correct espresso preparation technique see page 30*

*Preparing a single espresso 25ml*

1. Use one cup filter handle (with 1 spout)

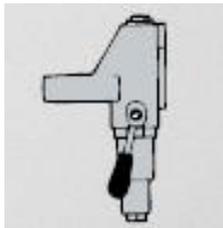


2. Position the metal one cup filter basket firmly inside the filter holder
3. Fill the single filter basket with freshly ground coffee and tamp the coffee until the finished height, is level with the internal reference line in the filter basket.
4. Tamp the ground coffee gently using the tamper supplied with the machine
5. Tighten the filter holder firmly into the brewing head (A-8).
6. Put one cup under the filter holder spout.
7. Pull the lever (A-7) completely upwards.



*Hot coffee flows into the cups from the filter handle's coffee spouts.*

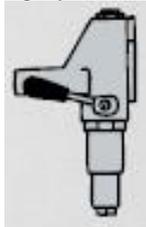
8. When the **MAXIMUM** extraction of 25 to 30 ml of espresso has been dispensed, position the lever (A-7) completely down to stop the coffee dispensing process.



9. Remove the filter holder (A-9) from the machine and empty used coffee grounds.
10. Clean the filter holder.

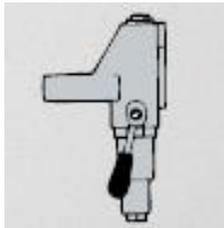
**Preparing TWO cups or a double espresso coffee. 50 to 60 mls.**

1. Use the two cup filter handle (with 2 spouts)
2. Position the metal two cups filter basket firmly inside the filter holder
3. Fill the single filter basket with freshly ground coffee and tamp the coffee until the finished height, is level with the internal reference line in the filter basket.
4. Tamp the ground coffee gently using the tamper supplied with the machine
5. Tighten the filter holder firmly into the brewing head (A-8).
6. Put two cups under the filter holder spouts. Or one cup for a double.
7. Pull the lever (A-7) completely upwards.



Hot coffee flows into the cups from the filter handle's coffee spout

8. When the maximum extraction of 50 to 60 mls, or 25 to 30 ml per cup has been achieved, position the lever (A-7) completely down to stop the coffee dispensing process.



9. Remove the filter holder (A-9) from the machine and empty used coffee grounds.
10. Clean the filter holder.

# ***Dispensing steam to froth or heat up liquids***

1. Fill a suitable ideally stainless steel pitcher (used for food only) with an insulated grip with the liquid to be heated up or frothed.
2. Position the steam nozzle of the steam wand (A-1) just below the surface of the liquid inside the liquid in the recipient. To avoid personal injury always ensure that the end nozzle of the steam pipe (A-1) is below the surface of the liquid to be steamed.
3. Turn on steam valve (A-2) fully.
4. Heat up or froth the liquid inside the pitcher.

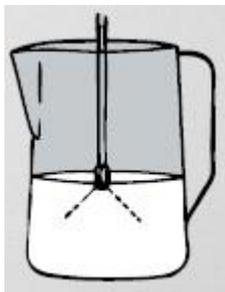
**Pay attention to hot sprays!** They may cause injuries.

5. When you're done, close the steam valve (A-2).

Clean the steam wand (A-1) and the steam wand's end nozzle carefully with a non abrasive damp cloth after each single use without touching it directly with any part of the body to avoid injury or damage due to the hot surface of steam wand end nozzle. **Caution: Hot surface.**

**Example: Steaming milk. For the correct milk texturing and heating technique see page 28.**

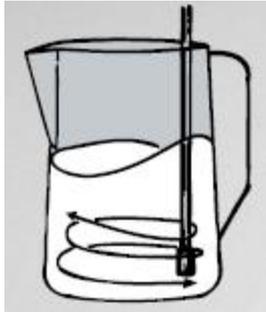
1. Use a clean, cold pitcher and fill 1/3 with cold, fresh milk. If milk has previously been steamed and stored in the refrigerator, we suggest adding some fresh milk in order to achieve optimum foam. Milk should be stored at a temperature around 4-5°C (app. 40°F).
2. Insert steam nozzle (A-1) into the centre milk just below the surface of the milk.



3. Open steam valve (A-2) rapidly.
4. Steam will come out of the nozzle and froth the milk. The milk volume will increase rapidly. Please lift the pitcher progressively to make sure that the steam nozzle is always right below the surface of the milk.

5. When enough foam is achieved, submerge nozzle (going sidewise) and keep it in that position finishing heating milk until the pitcher is too warm to touch.

Please remember that milk should never be steamed over app. 76°C (168°F). Milk steamed to over this temperature is scalded.



6. Close steam valve (A-2) rapidly, then remove milk pitcher from steam wand.

7. Wipe the steam wand (A-1) immediately after using with a non abrasive clean damp towel without touching the steam wand (A-1) directly with any part of the body to avoid injury or damage due to the hot surface of steam wand end nozzle. Use a towel that is designated for the steam wand only. Do not cross contaminate kitchen towels by using the same towel for cleaning the steam wand and i.e. kitchen tops.

Do not let the milk bake onto the steam wand.

Clogged wands and steam valves can be expensive to repair or to replace.

8. Burp your steam wand (A-1) immediately after using opening and closing immediately after the steam valve (A-1).

**Caution: Hot steam will come out of steam wand (A-1).**

Burping the wand will remove the milk residue from the inside of the nozzle.

9. Finish espresso drinks with correct portions of milk and foam.

10. Clean steam pitcher and store for next drink.

## ***Dispensing of hot water***

1. Position the end nozzle of the hot water wand (A-5) inside a suitable pitcher used for food only.

2. Open the hot water valve (A-4).

3. Hot water will be dispensed into the pitcher.

4. Close the hot water valve (A-4) when you're done.

# How to make great espresso.

This is the one method of making coffee that borders on being an art form. The better the machine you have (yes, often the more expensive) the better result you will achieve. In my opinion you are better serving great Stove Top Espresso or Plunger than bad Espresso.

So how do you master the art of making the best tasting Espresso cup after cup? Simple, follow our 4 step guide. Put your heart and soul into the process and you will be the equal of any professional barista.

## TROUBLE SHOOTING.

### Thin and dirty tasting coffee.

Your grind setting is too fine or it's too tightly packed. The water is struggling to flow through the coffee. The resulting coffee tastes dirty and is overly dark. This is known as over extracted coffee.

To fix it, make your grind setting more coarse, so you extract 50/60ml of coffee over the 25 to 30 second time frame.

### Sharp and metallic tasting coffee.

Your grind setting is too coarse or it's too loosely packed. The water is flowing through too fast. The resulting coffee looks thin with little or no crema. This is under extracted coffee with a sharp, metallic taste. To fix it, make your grind setting finer – remember 50/60ml over 25 to 30 seconds. A dirty machine will always lead to poor results.

Your Espresso machine needs to be **CLEAN, VERY, VERY CLEAN**. Use filtered water if you can and fresh water if you can't. Use a conical burr grinder and grind your coffee really fresh ie; just seconds prior to use. If your beans are getting old throw them out and buy a fresh batch. Buy and use a professional quality tamp.



1

Fill the handle of the machine with your freshly ground coffee to within 3mm of the top of the basket. Use a **FIRM** tamp, by firm I mean a decent push but no more than that. The tamp pressure must be the same, cup after cup. Along with the grind setting, this controls the rate at which the water flows through the ground coffee. **THIS IS THE SECRET TO GREAT ESPRESSO.**



2

Fit the coffee filled handle to the machine and start the extraction process. The time of the extraction (the pour) should be no more than 25 to 30 seconds before you turn the machine off. You're looking for a good heavy, viscous pour, we call it a mouse tail.



3

Now you should have 50 to 60 ML of fine dark, oily espresso. **PERFECT**. Remember that 50 to 60 ml is the maximum amount of your extraction, from this point on there is no flavour left in the ground coffee. For milk based coffee, simply add the hot milk to the desired amount, or for a long black add hot water.



4

# How to texture milk.

If making espresso is an art form this is like learning a craft, but once mastered it's easy enough.

The heat and texture of the milk you add to your espresso base will determine the quality and the temperature of your finished coffee.

The milk texture that you are aiming for is best described as velvet. That means it's about 70°C with a nice fine bead of bubbles.

Follow the 4 steps and you'll be producing great milk every time.

## THE MILK.

We'll assume you can make an excellent espresso (the base for latte's and flat whites), so now let's talk milk. Using a stainless steel jug, fill the milk to around half way, refrigerated or room temperature milk is fine.

Place the steam wand of your espresso machine under the surface of the milk and turn the steam tap fully on.



## STRETCHING AND TEXTURISING.

Now gently lower the milk jug so the tip of the steam wand is just under the milk's surface. Keeping the jug as steady as possible allow the steam wand to gently gasp the air right on the surface of the milk.

Slowly change the angle between the surface of the milk and the steam wand until you create a whirlpool effect. Listen for the gentle sound of the air being drawn into the milk.

If the noise is too loud then the milk surface is too far away from the tip of the steam wand and rather than a fine bead of bubbles you will see a very frothy texture being created.

Try for an effect similar to that of beating cream, gently folding air through the milk. At all times keep a steady hand, do not jiggle the jug up and down. Once textured, the volume of milk should have almost doubled.



## HEATING.

Once you have the milk texture correct, lower the steam wand into the milk and complete the heating process.

If you can hold your fingers against the bottom of the jug for around 3 to 4 seconds, the milk temperature will be around 70°C. That's the milk texture taken care of. Now let's talk espresso temperature and why it's important. The espresso when it is extracted into your cup has a

temperature of approximately 90°C.

When you heat your milk it will be about 70°C - any hotter and it will scorch, ruining the taste.

So how do you now add the milk to the espresso without making the resulting latte or flat white stone cold? You MUST heat the cups. If your espresso machine has a facility to heat cups, great, if not heat them with hot water prior to use.



## THE POUR.

Once you have heated and textured the milk, you're ready to pour it into your espresso base.

With a spoon, gently groom the surface of the milk, skimming off any overly frothy milk. The milk surface should now be glossy and have a nice fine bead of bubbles.

Gently bang the bottom of the jug on the bench top to settle the milk. Very slowly, with the jug close to the top of the cup, allow the milk to slowly roll off the lip of the jug and into the cup. Continue the pour in a gentle continuous motion.

Remember to watch what's happening at the lip of the jug, as this determines the quality of the milk going into your espresso.

If the milk becomes too thin or thick, stop the pour, gently bang the jug on the counter top, groom the surface again with your spoon until it's shiny and resume the pour. This all sounds more difficult than it actually is. Try it. You will throw out a few coffees to begin with, but once you've mastered the craft of making lattes and flat whites, you'll enjoy some of the most luxurious coffees to be had.



## TROUBLE SHOOTING.

Overly bubbly and frothy milk is caused by allowing too much air into the milk as you heat it. Thin flat milk is the result of not introducing any air into the milk as you heat it,

or using milk that has previously been heated. If you are still having problems bring in a pint of milk and we will be happy to show you how it's done.

# How to clean your Giotto or Cellini.

The importance of a clean espresso machine can not be underestimated when trying to produce great espresso.

You have the key ingredients with which to make great espresso, a quality espresso machine, a quality burr grinder and of course, fresh and well roasted coffee.

Yet with these 3 essential ingredients, all your hard work will come undone should your espresso machine not be clean.

Coffee is full of oils, these oils give espresso that lovely viscous feel in the mouth, but will also severely taint the

flavour of the espresso you make, if they are allowed to build up and become rancid when exposed to the environment.

Whilst cleaning can be a chore it is an essential part of espresso preparation.

## REQUIREMENTS

Nylon brush, small screwdriver or teaspoon, head shampoo and back flush cap

The cleaning procedure can be broken down into two main areas, the handle and the group.

## THE HANDLE.

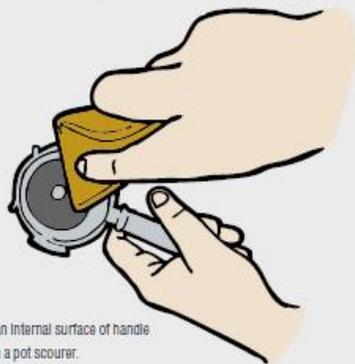
The easiest part to clean. With a small screw driver or teaspoon, flick out the filter basket from the handle.

Once you have the filter basket out, clean both the filter basket and the internal surface of the handle with a pot scourer until both surfaces are clean from the black coffee oils.

Should the oils in the handle have built up to excessive amounts, it may be necessary to soak the handle in hot water with a cap full of head shampoo for 30 minutes or so and then rinse thoroughly in fresh water.



Remove filter basket with teaspoon or small screwdriver.



Clean internal surface of handle with a pot scourer.

## THE GROUP.

With a small hard brush, give the inside of the group a good scrub.

The group should be back flushed Regularly. This means after each day, firstly, remove the filler basket and then fit the blind filter into the handle.

Next fit the handle into the espresso machine. **NOTE: This filter basket has no holes so the water pressure will build up and the water is very hot.**

Turn the brewing lever on and then off after about 15 seconds or so.

The purpose of this is to push fresh brewing water back through the head of the machine and back out through the exhaust solenoid thus cleaning the head or group of the machine.

Repeat this procedure several times, and each time you turn off the machine, remove the handle and empty the water sitting in the blind filter. Repeat until the discarded water is clean and fresh.

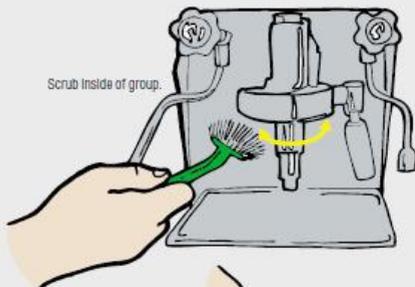
Next or weekly, put a small amount of head shampoo into the blind filter and repeat the process as above. Repeat this process until the shampoo runs clean into the drain tray via the exhaust solenoid.

Ensure that you back flush the machine once again so the shampoo residues are washed away.

Refit the correct filter basket back into the handle and taste the difference in the flavour of the coffee, job well done.

Additionally, make sure that the steam nozzles are wiped clean and check that the steam tip holes are not blocked. Likewise polish the exterior of your machine with a clean cloth or better a stainless steel cloth.

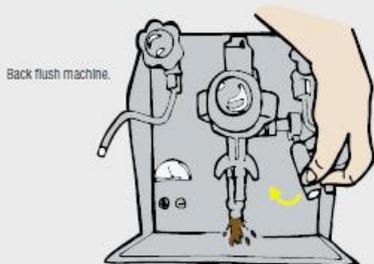
Scrub inside of group.



Remove filler basket with teaspoon or small screwdriver.



Fit blind filter.



Back flush machine.

# ***How to disassemble/dismantle the machine***

**The machine has to be disassembled and dismantled by an authorized technician.**

*Disassembling of the machine:*

*Operations to be effected with machine in working conditions at operating temperature.*

- 1. Place a recipient (with insulated grip) under the hot water wand (A-1).*
- 2. Open the hot water valve (A-4) and let hot water flow in the recipient.*
- 3. When no more hot water comes out, close the hot water valve (A-4).*
- 4. Put on/off switch (A-12) to position "0" (machine off).*
- 5. Unplug the machine from the electrical mains.*

*Operations to be effected with machine switched off and cooled down to room temperature.*

- 1. Empty the fresh water reservoir and clean it carefully before replacing it back into the machine.*
- 2. Make sure that the lever (A-7) is completely down.*
- 3. Store the machine in a safe, dry place.*

# Routine Maintenance

Simple, routine care of your espresso machine is your best defence against poor quality shots, as well as preventing breakdowns or, even worse, personal injuries.

## After each use:

1. Wipe the steam wand (A-1) immediately after using with a non abrasive clean damp towel without touching it directly with any part of the body to avoid injury or damage due to the hot surface of steam wand end nozzle.

*Do not let the milk bake onto the steam wand. Clogged wands and steam valves can be expensive to repair or to replace.*

2. Burp your steam wand (A-1) immediately after using opening and closing immediately after the steam valve (A-2).

**Caution: Hot steam will come out of steam wand (A-1).**

*Burping the wand will remove the milk residue from the inside of the nozzle.*

3. Knock used coffee grounds from filter holder and rinse. Re-use or store in brewing head (group) to keep the filter holder warm. (Please remember to take out filter holders when machine is not operating for some hours (i.e. at night).

## Throughout the day:

1. Wipe the screens inside your group head with a damp clean towel to remove excess grounds.

## Before shutting down the machine (i.e. at night):

**Caution:** For the following operations the machine has to be switched off, unplugged and completely cooled down

1. Clean showers, group gaskets and group flange with a clean brush (to be used only for this purpose).

2. Wash metal filter baskets and filter handle in warm water adding a special detergent product following the instruction's of the specific product. It has to be food quality and for this specific use with coffee machines.

3. Clean the drip tray (A-10) and grid with a non abrasive damp cloth. Make sure to empty the drip tray (A-10) before it flows over.

4. Wipe down surface of machine with non-abrasive clean cloth. Do never use aggressive cleaners or scouring powders! This operation has to be done when necessary.

5. Remove the water reservoir (B-4) and clean it carefully with food quality cleaning products. It's very important that the water reservoir is always clean! Please repeat this operation every day and whenever necessary.

## **Espresso Glossary and recipes**

Please use for the following, properly ground and portioned espresso coffee. Please use app. 6, 5 to 7 grams for each shot. You should consider a brewing time of app. 25" for a proper shot of espresso (or the part of espresso in a latte or other espresso based beverage).

### **Espresso**

25 ml for a single or 50ml for a double, served in a small pre-warmed espresso cup. Brewing time is around 25 seconds. Ideally served in a 70ml cup.

### **Cappuccino**

125 ml. Consists of 1 part espresso (25ml) and 4 parts of frothed milk (100 ml). Serve in a 190ml cup.

### **Caffe Latte**

A single (25ml) or a double espresso (50ml) topped with heated and textured, but not frothed milk. Served in a 190ml glass.

### **Americano / ong Black**

Depending on the desired strength, a single or a double espresso topped with hot water, generally served in a 150 to 190 ml cup.

### **Caffe Mocha**

1 part of chocolate syrup, 1 part of espresso, 5 parts of topped with a Caffe Latte.

### **Caffe Macchiato**

A single espresso (25ml) with a stain of heated milk. Generally served in a 70 ml cup.

### **Espresso con Panna**

1 shot of espresso topped with whipped cream.

### **Flavoured Latte**

A Caffe Latte with 25ml of flavoured syrup (i.e. almond, hazelnut etc.)

## Trouble Shooting

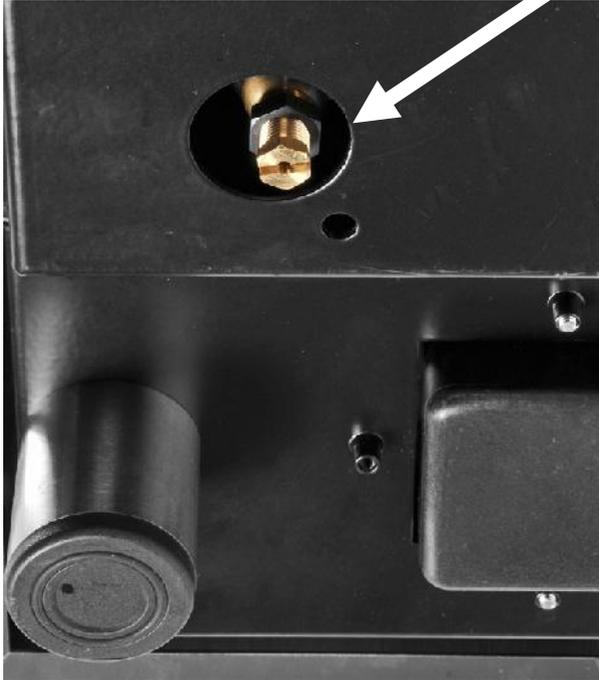
<b>Problem</b>	<b>Possible causes</b>	<b>Solutions</b>
<i>Light flashing</i>	<i>Low water level in the reservoir</i>	<i>Add water</i>
<i>No water/ coffee from the group or coffee pouring slowly</i>	<i>Coffee grind is too fine and/or coffee is tamped too much</i>	<i>Use a coarser ground coffee and reduce tamping pressure</i>
	<i>Group shower screen is clogged</i>	<i>Clean the screen with a clean damp towel or contact your authorized service rep. for replacement of the screen</i>
	<i>Group restrictor is clogged</i>	<i>Contact your authorized service rep.</i>
	<i>Blind filter (special order feature for some markets) is in the filter holder</i>	<i>Remove the blind filter</i>
<i>No steam from steam wand</i>	<i>Steam nozzle is clogged with dried milk</i>	<i>Unscrew nozzle and clean.</i>
	<i>Boiler pressure is too low</i>	<i>Check pressure at approximately 1 bar. If pressure is low, check on/off switch is "on"</i>
	<i>Boiler is overfilled</i>	<i>Contact your authorized service rep.</i>
	<i>Boiler is empty</i>	<i>Contact your authorized service rep.</i>
	<i>Heating element defective</i>	<i>Contact your authorized service rep.</i>
<i>No water from hot water nozzle</i>	<i>Boiler pressure is too low</i>	<i>Check pressure at approximately 1 bar. If pressure is low, check on/off switch is "on"</i>
	<i>Boiler is overfilled</i>	<i>Contact your authorized service</i>
<i>Water leaking from machine</i>	<i>Several causes. I.e. boiler is overfilling.</i>	<i>Switch machine off and unplug machine. Contact your authorized service</i>
<i>Pump is making loud noise</i>	<i>Pump is running without water</i>	<i>Switch machine off and unplug machine and contact your authorized service rep</i>
	<i>On/off switch is off</i>	<i>Turn switch on</i>

## Trouble Shooting

<b>Problem</b>	<b>Possible causes</b>	<b>Solutions</b>
Pump is not running	Pump is faulty	Switch off and unplug machine and contact your authorized service rep
Water from water nozzle is brown and smells bad	Milk in boiler	Switch off and unplug machine and contact your authorized service rep
Steam pressure is low to recover	Low voltage at power supply	Verify proper voltage to machine
	Heating element damaged	Contact your authorized service rep
	Hard water build up in boiler	Contact your authorized service rep.
Steam flow from wand is low	Steam pressure is low	Verify boiler pressure is at approximately 1 bar. If pressure dropped during steaming, allow pressure to recover.
	Steam nozzle partially clogged	Remove and clean steam nozzle
	Milk in steam wand and/or valve	Contact your authorized service rep.
Shots pouring too fast	Coffee grind too coarse	Use finer coffee grind
Shots taste bad	Coffee is not fresh or not freshly ground	Ensure your coffee is fresh and freshly ground
	Group and/or filter holders and/or filter baskets and/or group showers/screens need to be cleaned or replaced	Please provide or contact your authorized service rep.
	Coffee grind is incorrect	Use properly ground coffee
	Grindstones are dull	Contact your authorized service rep.
	Boiler pressure is too high or too low	Contact your authorized service rep.
No "Crema" on espresso ("Crema"= emulsion on top of the espresso)	Grind too coarse	Please use properly ground coffee
	Coffee is not fresh	Use fresh and freshly ground coffee
Filterholder won't fit in group	Gasket need to be replaced	Contact author. service rep
	Too much coffee in filter	Use correct portion

### Setting the pump pressure operating on the by-pass screw

1. Loose fixing nut.
2. Turn setting screw clockwise (“-“) to decrease and anti clock (“+“) to increase pump pressure. Factory setting is 9 Bar.  
Please do not set lower than 8 Bar or higher than 10 Bar.
3. Tighten fixing nut again.



Please check pump pressure with pressure gauge (Fig. A/6).

## Hard plumbing the machine

Your Rocket R 58 espresso machine is built with a full commercial rotary pump. This feature enables the user to connect the machine directly to the mains water supply.

With your Rocket R 58 espresso machine there is the choice to use the 2.5 litre water reservoir or alternatively use a mains water connection. The machine is preset at the factory to use the supplied 2.5 litre water reservoir.

To set the machine to be mains water feed, please ensure the following instructions are adhered to:

**Program through the remote controller the operation mode from water reservoir to connection to the mains water supply (please refer to page 16).**

Using the steel braided water hose supplied, connect the machine to the water supply.



Rocket Espresso recommends the following procedures when installing the machine to a mains water supply feed:

- Use a certified plumber to complete the installation and insure that the installation meets local authority standards and regulations in all cases. Line pressure exceeding 5 bars should be limited with the use of a pressure regulating valve on the water feed line.
- We recommend the use of a shut off valve to isolate the water supply to the machine.
- We recommend the use of an inline filter to ensure the water supply to the machine is of the highest quality. Example: Everpure ocs filter range.
- If you are drawing the water from a non pressurized system (ie from a remote water supply tank, not mains pressurized) it is recommended that a non return valve is fitted to the end of the water supply hose to ensure that inline pressure is maintained at all times.

## **Alarm messages**

The microprocessor controls the main functions of the machine as i.e. the water level controls (water reservoir, service boiler and coffee water brewing boiler) and the proper function of the temperatures probes inside the service and coffee water boiler. Alarm messages can be read out on the display connecting the setting device to the machine. If the device is not connected, please note that some alarm information is given by flashing of the control light (Fig. A/13).

2 times flashing: There may be a problem with the service boiler temperature probe.

3 times flashing: There may be a problem with the coffee water boiler temperature probe.

In both cases turn the machine off and then on again. If this doesn't solve the problem please contact the authorized Rocket Espresso Ltd. technical service.

*(The following declaration is applicable for machines distributed in the European Community only)*

**Declaration of CE conformity**

**Manufacturer:**

**Rocket Espresso Limited Italian Branch**

Viale Delle Industrie 26

20090 Settala

Milano

Italy

*This is to confirm that the Giotto series of espresso machines has been manufactured according to the following standards:*

<i>Dir. 2004/108/EC</i>	<i>Dir. 2006/95/EC</i>
<i>EN 55014-1:2006+A1</i>	<i>EN 60335-2-15:2002+A1+A2</i>
<i>EN 55014-2:1997+A1+A2</i>	<i>EN 603351:2002+A1+A11+A12+A2+A13+A14</i>
<i>EN61000-3-2:2006+A1+A2</i>	<i>EN 62233:2008 +C1:08</i>
<i>EN 61000-3-3:2008</i>	