

#### THE ART OF PRODUCING ITALIAN COFFEE MACHINES

With Doge, the Grimac Group intends to give new life to a historic brand linked to the world of espresso. An important name historically and geographically related to the routes of coffee, its transformation and its serving in the most historic and well-known Venetian cafes. Doge represents for the Grimac group the link between history, contemporary and projection towards the future, through sharing of objectives tied to concrete and tangible aspects such as research, innovation and sustainability, environmental and social. All machines are designed to minimize the use of plastic materials and to allow easy and fast maintenance of the internal components of the machines in a philosophy of environmental sustainability based on real elements such as the use of sustainable materials and attention to the longevity of the product.



# Quattro series

Quattro is a professional machine that offers the market a new architecture of coffee machine reinterpreting two classic ideas, the machine with open groups and the covered groups, both strongly characterizing the entire panorama of the current espresso coffee machines. The architecture of Quattro offers the advantages of the current machines with covered groups (use of displays and keyboards on top of the group) with the charm of open group machines (visible mechanics). Thanks to its new architecture, Quattro is a light weighted practical machine on the counter that allows easy insertion of the filter-holder while maintaining a large control panel above the group.





In Quattro, the use of plastic components is minimised, giving space to steel in glossy, scotch brite and painted finishes.

The front of the Quattro is kept uncovered around the area occupied by the steamwands whereas keyboards and displays cover the areas dedicated to the groups. This distribution of space gives the machine lightness and improves its ease to use.





Clean lines, quality and attention to detail, predominant use of noble materials such as steel and easy repair of all components, make Quattro a timeless machine. The machine's architecture, linear in shape but unique in geometry, makes Quattro a recognizable and distinctive machine on the market.







# Asilent revolution



## **NEW ARCHITECTURE**

The semi-covered architecture of Quattro combines all the advantages of traditional machines with open and covered groups.

The new and spacious management interface combines ergonomics of use of the interface with the gestures of the bartender.



**COVERED GROUPS** 



**OPENED GROUPS** 





QUATTRO

#### Thermal stability with machine in stand-by

In the maintenance phase, Quattro limits the thermal variations of the water in the boiler by 0.2°C (compared to 3.5°C of the most common traditional machines).





### **ENERGY SAVING**

The traditional 2-group machines with 3.4 kW heating element on the market maintain a boiler pressure between 0.8 and 1 bar. To maintain this situation they activate the resistance about 30 times per hour, for an average duration of 18 minutes, with a feed projection of the resistance of 3.6 hours,

equal to a consumption of 12.240 kW/h, every 24 hours.

Thanks to its technologies Quattro changes the paradigm, revolutionizes the schemes and leads to considerable energy savings.

Quattro



### FASTER PROCESSORS

The use of very fast processors and a very high precision pressure transducer allows to increase the number of readings (with a dynamic response of less than 5 ms) and to have a greater accuracy in the reading of pressure variations (reading accuracy of 0,01 bar). These characteristics allow to have stability and thermal capacities much higher than other machines with insulated boiler's circulation with traditional groups.





Through a flow-pressure graph it is





#### Simulated

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By performing test extraction it is possible to define the timings, and therefore the quantities of water, of the preinfusion.

You can set the preinfusion time for each dose type.

Parametric







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machine.

**EXTRACTION CONTROL** 

On a large 4.3" TFT colour display you can real-time

control the coffee extraction of each group of the



possible to display the flow of extraction (ml), the extraction's pressure (bar) and the temperature of the group (°C).

Alternatively, the extraction can be displayed by monitoring the time, pressure and flow of extraction.



#### QUALITY AND TEMPERATURE CONTROL OF WATER FOR SERVICES

Most insulated boiler's circulation coffee machines use water coming directly from the boiler, too hot for the infusions and organoleptically compromised for its statics.

Quattro uses fresh water from the water supply, mixed with small amounts of water and steam from the boiler allowing the barista to quickly vary the water temperature and providing quality hot water.



extractions until the final



#### WATER SUPPLY

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#### RECYCLABLE MATERIALS Packaging

completely in cardboard.



#### EASY SERVICE Easy access to internal components for quick and easy technical assistance. System optimisation, both electronic and

hydraulic.



#### SYSTEM DIAGNOSTICS

At each start of the coffee machine, the software performs, through a specially developed algorithm, a complete analysis of the efficiency of the internal systems of the machine.



## CUP WARMER

#### Dedicated heating element, adjustable in temperature, to maintain the cups in optimal conditions, always ready to use.



#### COLOURING OF THE SELECTION BUTTONS

Through a specific software system, it is possible to change the colouring of the selection keys.



#### **MULTIFUNCTION TFT 4,3" DISPLAY**

High-resolution graphic colour display for navigation within the various configuration and programming menus, machine status analysis and graphical visualizations to monitor coffee extractions.



#### **ENERGY SAVING SYSTEM**

ECO

Through the insulation of the boiler and the stand-by functions, both manual and automatic, the automatic switching on and off of the machine, with the possibility of setting one or more days of complete shutdown, a considerable energy saving is achieved.



#### ELECTRONIC BOILER WATER AUTO-LEVEL

An electronically controlled level probe is used to maintain the correct volume of water in the boiler automatically.



#### **BOILER'S PRESSURE MANAGEMENT**

Static relays for steam management in the boiler. An electronic pressure transducer is used to regulate the pressure of the boiler with maximum precision and reactivity.



#### **VOLUMETRIC PUMP**

and motor with high performance and reliability, to maintain the constant pressure of delivery even with prolonged and simultaneous use of multiple functions and groups.





#### "COOL TOUCH" STAINLESS STEEL STEAM WANDS

Steam wands that do not cause burns even in conditions of prolonged use. The steam wands are also equipped with steam nozzles for "Latte Art" high performances.

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#### HOT WATER

The standard equipment of the machine allows to obtain, by mixing with cold water, different temperatures depending on the needs, for tea and herbal teas. Instant mixing of fresh water-hot water and steam optimises the organoleptic qualities of hot water.



#### STAINLESS STEEL FEET

The stainless steel feet, adjustable in height, are necessary to ensure the flatness of the machine.



Groups	Model	Control	Supply	Resistance	Voltage	Boiler	Dimensions	Weight	Logo and details	Body and front components	Colours
2	Quattro	Electronic	Water supply	3500W	220-240V 380-415V	12 L	L 790 mm W 610 mm H 538 mm	75 kg	Matte black	Brushed steel	Jet Black Gloss RAL9005





It is possible to vary the lighting intensity of the workspace that allows to work effectively in any ambient lighting condition. Optional rear panel lighting.



#### DOSE PROGRAMMING

The software offers the possibility to program the doses according to the desired volume for each selection so that the user can set, and/or modify, the millilitres of water used for each selection.



#### **BREWING GROUP**

Group type GR61 in chromed brass, equipped with hydraulic preinfusion; ensures maximum reliability and performance for professional use.



"start/stop" button, and you can set the PURGE function, to obtain the group flushing, before each extraction.

