



The water model treatment plants “GENIUS” have been designed to meet the needs of all companies that need to treat polluted water from industrial processes and dispose the treated water in civil networks.

The plant allows the removal of the main parameters of reference for the concession of the disposal of water in civil networks, these characteristics have allowed the protection of the system through an International Patent.

MAIN FEATURES:

- On-board electrical panel with color display with management of all settings via Touch Screen.
- PLC with dedicated and patent protected program.
- Synoptic of the system with real-time information on the cycle status.
- Automatic diagnostics of exhausted filter group.
- Possibility to program several cycles continuously, in total autonomy, without the need for the presence of an operator.
- Set up for remote control and diagnostics on customer devices (4.0 setting).
- Hot sludge discharge without waiting time, in total safety.
- Automatic loading of fluids to be treated with pre-filtration of the same.
- Air condensing unit.
- Fractionation column cooling unit.
- Mixed activated carbon-resin filter unit.
- Safety check of the loading time at each cycle to trace the presence of any sludge inside the boiler, not completely drained.
- Safety devices for the control of the overheating of the distillate in output, of the pumps and of the motors
- Safety mechanical devices for vapor overpressure.
- Safety level sensor to control the overflow of the boiler.
- Safety level sensor to control the overflow of the intermediate tank.
- Contained height to facilitate maintenance of the system and its transport.

MODELS WE OFFER

- Load capacity: 120 - 250 - 500 liters

GENIUS

STANDARD FEATURES

MODEL	GENIUS-120	GENIUS-250	GENIUS-500
Heating method	Induction	Induction	Induction
Effective loading capacity of the boiler in stainless steel Aisi 304	120 liters	250 liters	500 liters
Cooling type	Air	Air	Air
Condenser with cooling coils	Copper	Copper	Copper
Gasket lid	NBR	NBR	NBR
Compressed air	5/6 bars	5/6 bars	5/6 bars
Compressed air consumption	120 Lt/min	120 Lt/min	120 Lt/min
Heating power	12kw	24kw	32kw
Voltage/Frequency	400 + N 50/60HZ	400 + N 50/60HZ	400 + N 50/60HZ
Nominal hourly productivity (*)	15 Lt/h	31 Lt/h	62 Lt/h
Over-temperature safety	Distillate in output/Pumps/ Motors	Distillate in output/Pumps/ Motors	Distillate in output/Pumps/ Motors
Additional control safety	Overflow of the boiler and intermediate tank	Overflow of the boiler and intermediate tank	Overflow of the boiler and intermediate tank
Dimension	2200x1800x2500 h mm	2300x1900x2600 h mm	2800x2200x3000 h mm

(*) NOTE: The declared nominal productivity is not binding as it is influenced by too many variables; in general it refers to the performance of the machine in optimal conditions, when fully operational, with a percentage of pollutant not exceeding 10%;

OPTIONAL

Control/Remote assistance by LMG GREEN Srl	Control system and remote assistance system by the manufacturer via LAN line.	Control system and remote assistance system by the manufacturer via LAN line.	Control system and remote assistance system by the manufacturer via LAN line.
Automatic clean and unclean management system between tanks and GENIUS	With 1,000-liter PET tanks	With 1,000-liter PET tanks	With 1,000-liter PET tanks
Automatic management system for liquids from FLOOR WASHING machines	With 1,000-liter PET tanks and detergent dispenser	With 1,000 liter PET tanks and detergent dispenser	With 1,000 liter PET tanks and detergent dispenser