

MODEL	Doors number	Chamber Dimensions (WxHxD) mm	Chamber Volume		Overall Dimensions (WxHxD) mm
			Litres (total)	S. U. (available)	
MS 52 NE	1	280x180x500	25	1/2	800x620x730
MS 52 PE	2	280x180x500	25	1/2	800x620x730
MS 52 NE/V	1	280x180x500	25	1/2	800x620x730
MS 52 PE/V	2	280x180x500	25	1/2	800x620x730
MS 52 NV	1	280x180x500	25	1/2	800x620x730
MS 52 PV	2	280x180x500	25	1/2	800x620x730

	MS52NE	MS52NE/V	MS52NV	MS52PE	MS52PE/V	MS52PV
FEED	Electric	Electric/ Direct Steam	Direct Steam	Electric	Electric/ Direct Steam	Direct Steam
ELECTRIC POWER [kW]	8	8	2	8	8	2
STEAM CONSUMPTION [kg/h]	/	20	20	/	20	20
WATER CONSUMPTION [l/min]	5	5	5	5	5	5
WEIGHT [kg]	195	195	175	200	200	185
AVERAGE STANDARD OF ACOUSTIC POWER (Weighted A) [dB]	In compliance with IEC EN 61010-1 and IEC EN 61010-2-041 Technical Rules					

Recognition symbols	
N	Appliance with one door for loading
P	Appliance with one door for loading and one for unloading
E	Steam production by heating the water inside a generator (incorporated) through electric resistances
V	Steam production by an external generator

Designed and manufactured according to 93/42/EEC, 97/23/CE Rules; the NEMKO mark certifies they are in conformity with the IEC EN 61010-1, IEC EN 61010-2-041 and the EN 13060 B-Class.

All information included in this booklet can be modified by the builder in every moment and without prior notice. We therefore recommend not to use this information for dimensioning, projects, etc. If necessary, please ask directly the builder for the installation manual and schemes.



Tip. Mascherin, Cusano di Zoppola (Pn) - Catalogo 01/05 stampato in settembre 2005

General Characteristics

The range includes:

- One-door models with a sterilizing capacity of 1,5 sterilization units;
- Double-door models with a sterilizing capacity of 1,5 sterilization units for installation in the wall between the sterile and the non-sterile area.

Among the peculiarities regarding these autoclaves we point out:

- **Completely insulated chamber** with rectangular cross-section to minimize steam, water and power consumption;
- **Sterilization cycle controlled by a digital microprocessor** interfaced by one panel with display, which shows the current phase of the cycle, the cycle parameters, possible anomalies or failures, etc. The sterilization cycle is printed in graphic and/or alphanumeric form through a printer next to the autoclave;
- **Possibility of control and self-diagnosis** of all the functions on the interactive control panel;
- **Programmable cycles** which allow to modify parameters (access to programming protected by confidential code).

Structural Characteristics

- **Load-bearing structure made of stainless steel**, with outer covering panels made of AISI 304 stainless steel, "scotch-brite" finish;
- **Sterilization chamber with jacket** obtained by AISI 316 or AISI 316 Ti stainless steel panel, welded in inert gas atmosphere, 3 mm thickness, "scotch brite" finish or bath-treated surface (polishing);
- **Horizontally sliding doors** made of AISI 316 stainless steel, with manual opening on sliding guides;
- **Autoclave seal achieved thanks to a silicon gasket**, seated in a hollow realized through precision works by a ring soldered on the body, pushed towards the door by a motor reducer;
- **Fractioned vacuum sterilization process**, through high-vacuum pump with liquid ring, protected against direct steam injections;
- **Hydraulic circuit with stainless steel pipes**, brass pipe-fittings and bronze valves;
- **Fluids control through solenoid valves**, installed with mechanical seal fittings;
- **All pipes in which steam and hot water flow are insulated**. The temperatures of the inner accessible parts respect the limits established by the CEI EN 61010-1 and CEI EN 61010-2-041 Safety Rules;
- **Steam production through autonomous steam generator completely insulated**; it is provided with electronic level control (except for direct steam versions);
- **Possibility to open the doors in case of block** of the control system.

Technical Characteristics

- The autoclaves of this serie can develop 9 completely automatic and perfectly reproducible programmes (5 productive programmes and 2 control programmes), which allow the setting out of the following parameters: lasting of the pre-heating, number of the vacuum changes or of the steam injections, lasting of the pre-vacuum, temperature and lasting of the sterilization, speed of chamber draining, drying time, cooling time, etc.
- The machines with standard configuration allow the treatment of the following material:
 - 134°C for porous material in general: **clothes, fabrics, fibres, etc.;**
 - 134°C for **surgical instruments;**
 - 121°C for **rubber material: gloves, catheters, dummies, etc;**
 - 134°C for **porous material and instruments packed in bags;**
- **Vacuum Test** programme;
- **Bowie & Dick** programme;
- Further programmes are configurable on special requirements (rapid cycles, sterilization of the Creutzfeldt-Jakob disease prion, etc.)
- All messages are **visualized and printed** in clearly readable writings.

Control Devices

The autoclave fronts are provided with:

- General key lock switch;
- Touch-keyboard to insert the programmes/parameters/data of the sterilization cycle;
- Trans-illuminated display indicating the several phases, the cycle parameters and eventual anomalies or failures;
- Analogical gage to indicate the pressure/vacuum in the chamber;
- Analogical manometer to indicate the pressure in the jacket/generator;
- Graphic and/or alphanumeric printer.

Safety Devices

The autoclave is provided with **several security devices that avoid:**

- Programme start with door not perfectly closed;
- Heating start without water in the generator;
- Pressure raising over the exercise value in the generator/jacket;
- Passage to the following phase of a programme with irregularly developed operative parameters in the previous phase;
- Doors opening with pressure/vacuum inside the chamber;
- Door opening on the sterile side after Test cycles or cycles with negative results (Pass-through version).

Fittings

The autoclaves can be provided with the following fittings:

- **Automatic water softener;**
- **Demineraliser;**
- **Cooled drain;**
- **Supporting base with doors;**
- **STERILCOLUSSI LT supervision programme:** allows you to remote supervise the sterilizer and to record and visualize on the PC the pressure and temperature parameters characterizing every sterilization load, which are pointed out by the two computers seated on the machine. For every sterilization cycle a file is created in a compressed and cripted form, which therefore cannot be tampered; it includes all of the parameters which characterize the sterilization cycle (also the temperature and pressure values detected by the control system through two independent probes). This file can be used for the paper-less traceability of the sterilization cycles as provided by the law in force;
- **STERILCOLUSSI managerial programme;** further than all functions of the STERILCOLUSSI LT programme, it enables you to control all processes connected to the sterilization by drawing and storing all responsibilities relevant to the process (in conformity with the rules in force) and to label the sterilized material according to the 93/42/EEC rule. The programme runs a system of passwords and selections that allows to record all responsibilities related to the production cycle of sterile objects. The programme enables the sterilizer to be a part of an integrated system for the sterilization of medical devices. The system is useful to control and organize the operation of admittance, washing, packaging, sterilization, approval certification, labelling, issue, delivery, association set-patient, etc.



STERILCOLUSSI managerial programme:
PC-visualisation of the state of the sterilizers.



STERILCOLUSSI managerial programme:
Planning of the orders through PC or optical scanners.