AWD 655 medical line
Technological Features

Chemical-resistant double glass
The door is made of two layers of tempered glass, resistant to chemicals, even the most aggressive ones. It allows to see inside the wash chamber during operation.

Stainless steel design
The wash chamber is made of stainless steel AISI 316L (EN 1.4404) while the chassis and external panels are made of stainless steel AISI 304 (EN 1.4301). They are shockproof and long-lasting. Scotch Brite surface finish makes cleaning easier.

Ergonomic handle
Thanks to the ergonomic handle, on models equipped with manual door, the door opening and closing functions are made easy without efforts.

Support for an easy access
On request, the AWD655-8-LAB (and variants) can be integrated with a stainless steel support, under the machine, that provide an ergonomic height when the machine is not installed under the counter, making the access to the machine easier for the operator. The support is also useful for storing chemicals.

Door locking and security system
The machines are equipped with an automatic door locking system which ensure a safety door block. For the safety of the operators, the machine does not allow the door to be unlocked during the wash cycle or in the presence of high temperatures. An extra sensor guarantee that, even if in presence of a malfunction of the machine, the water pump will be switched off with the unlock of the door.

Printer
On request, the machines can be equipped with a printer that prints the receipt log of the running program.

Touch-pad keyboard with graphic display
The touch control panel consists of 8 backlit keys and a 3.5” LCD display, AWD655-15A-LAB (and variants) is equipped with a 7" touch-screen display. The flat display with colour graphics shows all cycle parameters, alarm messages, measured temperatures of the two temperature probes positioned in the wash chamber and drying temperatures.

Alarm-check system
This system helps the operator to understand why an alarm has occurred before consulting the user manual. A text appears on the display with the number, the image of the alarm and the text explaining the possible causes of it.

Customizable programs
The machines are supplied with a set of standard programs, variable according to the model, and with the addition of customizable programs, up to a maximum of 40 total programs.

Legenda:

Applications only available on request.



Double door system

AWD655-10D, AWD655-10AD and AWD655-15AD (and variants) are equipped with two interlocked doors: one for loading the dirty trolleys with the instruments to be washed (dirty area) and the other positioned at the rear for unloading the clean trolleys with the disinfected instruments (clean area). The machine does not allow the unlocking of the two doors at the same time. The door of the basket in the unloading area is unlocked only if a cycle is successfully completed.



Wash chamber LED light

On request, the machines can be equipped with a LED light positioned inside the wash chamber, with low energy consumption, for a better visibility during the wash cycle and during loading and unloading of the basket or trolley. For AWD655-2, AWD655-8 and AWD655-10 (and variants), the LED may vary in color depending on machine status. In the event of an alarm, the wash chamber lights red; when the cycle is successfully completed, the wash chamber lights green.



Reliable washing

Thanks to a dedicated pressure switch that monitors in real time the water pressure of the washing circuit, all the washing parameters will be always perfect. An alarm message on the display will indicate if there's a pressure lost during the cycle, causing a cycle stop.



Microcontroller

The machines are equipped with a microcontroller that constantly monitors its operation. It's provided with an internal flash memory that allows the machines to store all the information regarding: cycle params, allarms and log history. An internal watchdog monitor the microcontroller and block the device in case of a malfunction.



Boiler for Speed Cycle

The models with boilers help to speed up the water heating times and to save water. The first boiler is filled with deionized water maintained at a pre-set temperature thanks to its internal heating element, it helps to reduce the electricity consumption and to increase system efficiency; the second boiler allows to reduce hot water loading times and save water by reusing deionized water at the end of the phase.



Water softener system

On request, the machines can be integrated with a system that makes it possible to soften the cold and hot water (depending on the model) entering the wash chamber, so as to reduce the formation of limestone in the hydraulic circuit of the machine. The machine automatically regenerates the resins based on the water hardness set at the time of installation.



Humidity sensor for control drying

On request, AWD655-15A (and variants) can be equipped with a humidity sensor that monitors the humidity value in the washing chamber at the end of the drying phase. Using a humidity probe, the device automatically regulates the duration of the drying phase in order to obtain a predefined drying result.



Steam condenser system

The machines are equipped with an effective steam condenser system that acts to reduce the steam during the disinfection and drying phases.



Spray arm monitor

On request, the machines can be equipped with the spray arm monitor system. If the spray arm monitor is enabled, it checks the correct rotation of the spray arm. An alarm message on the display will indicate a problem during the cycle.



Conductivity probe

On request, the machines can be equipped with a conductivity probe that checks the water purity level at the end of rinsing, before disinfection. The machine repeats the rinse cycle again to remove any residue if the conductivity probe detects a water purity level, expressed in µS/cm, higher than the preset one.



(E.T.S.) Empty Total System

On request, AWD655-10, AWD655-10A and AWD655-15A (and variants) can be equipped with the E.T.S. system which, at the end of each cycle, automatically discharges the residual water from the pump, water storage tank and pipes, to ensure complete cleaning inside the machine.



Automatic washing trolley recognition

On request, AWD655-10, AWD655-10A and AWD655-15A (and variants) can be enabled to understand when a trolley is inserted: it is not possible to start a program if there is no trolley inside the wash chamber. The application recognizes which type of trolley is inserted and suggests to the user which program to start. However, it remains possible to enable or disable programs that are not recommended for this type of trolley.



Drying with HEPA H14 filter

During the drying phase the forced air, pushed by a blower, is introduced into the washing chamber, passing through an electric heater. The air then comes out of the jets of the spray arms to ensure a warm uniform air distribution. The HEPA H14 filter allows to block the fine dust present in the air with an efficiency of 99.995%. Furthermore, in order not to damage the filter, a pre-filter is placed in front of it to block the larger particles.



Models without drying system

AWD655-2XE, AWD655-8XE and AWD655-8XEL are without drying system: at the end of the cycle, the machine automatically opens the door partially, to dry the instruments with a natural air recirculation, saving on consumption. Read the user manual for more info and details.



Filter cleaning sensor

A dedicated vacuum switch monitors the HEPA H14 filter clogging. An alarm message on the display will indicate that the filter is clogged, causing a cycle stop.



External heating system

In the AWD655-2 (and variants) model the water heating elements are positioned outside the wash chamber: this solution avoid water and chemicals to be in contact with the electrical active componets of the heaters.



Coil for facility steam

On request, AWD655-10, AWD655-10A and AWD655-15A (and variants) can be equipped with a coil at the bottom of the chamber which is crossed by the mains steam. This speeds up the times required to heat water. It is also possible to use only the coil, excluding the heating elements.



Hybrid heating system: electric + steam

On request, AWD655-10, AWD655-10A and AWD655-15A (and variants) can be equipped with a hybrid heating system: the water is heated both by the heating elements inside the tank and by the network steam. In this way it is possible to reduce program times and electricity consumption.

Detergent storage compartment

In the AWD655-2 models, the access to the detergent storage compartment is prevented to unauthorized persons by a locked door. In addition, in the counter top model, cleaning operations are facilitated by a fully removable basket. On the AWD655-8 models with side panel, the detergent storage compartment is located in the side panel with a handle to allow access to it. In the AWD655-10, AWD655-10A and AWD655-15A models the tanks are located in a compartment with locked door at the bottom of the machine.

Chemical dosing control

The dosing system for chemical products is controlled by a flowmeter. If the flowmeter doesn't perceive the passage of the liquid, after a few seconds the display will show an alarm that warns the operator of the non-dispensing of the liquid in the wash chamber, causing a cycle stop.

Chemical products level sensor

The machines are equipped with a sensor placed in the suction probe of chemical products, which warn the user if the liquid is running out through a warning that appears on the LCD display.

RS232 port connection

USB port

The two USB ports:

- USB 2 type A for PC USB: allows to connect the machine to a PC for programming;
- USB 2 type B for flash drive: allows to download the history of programs executed and alarms, or for update the firmware and dataset.

Washer RePortal

Software to connect to the machine to manage the user PIN and download, via USB PenDrive, the cycles ran, that are saved on a special database, moreover it is possible to generate the cycle reports in PDF format and export them in CSV format.

User pin management

Manage a secure access to the programs by the users. An user name and password protection level limit the access to the device only to authorized personnel.

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