

ATOS AWD655-8

ATOS AWD655-8L

ATOS AWD655-8L-SPEED CYCLE

INSTRUMENT WASHER DISINFECTOR



Configuration Datasheet rev. 23 11/03/19

It enables the technological configuration of the washer AWD655-8 / AWD655-8-L / AWD655-8-L-SC

Data:

Customer:

Reference:

Given configuration:



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DISPLAY LANGUAGE

	Code
<input type="radio"/> Italian	216000100
<input type="radio"/> English	216000200
<input type="radio"/> French	216000300
<input type="radio"/> German	216000400
<input type="radio"/> Japanese	216000800
<input type="radio"/> Spanish	216000500
<input type="radio"/> Turkish	216001400
<input type="radio"/> Swedish	216001600
<input type="radio"/> Portuguese	216001100
<input type="radio"/> Romanian	216000600
<input type="radio"/> Russian	216000900
<input type="radio"/> Dutch	216001300
<input type="radio"/> Hungarian	216001200
<input type="radio"/> Czech	216001000

Legend

- ☒ Standard
- ☐ Optional (mark to request the option)

DOCUMENTATION

	Code
<input type="radio"/> Italian user manual	214200111
<input type="radio"/> English user manual	214200112
<input type="radio"/> French user manual	214200113

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WASHING AND DISINFECTING MACHINE FOR MEDICAL INSTRUMENTS

AWD655-8 is equipped with a flap door that is manually opened and closed.

The device is equipped with an electrically heated filtered air system. Air is forced inside the washing chamber by a powerful air pump for the drying phase and passes through an efficient steam condensing system when leaving the washing chamber.

This instrument washer can be equipped with a trolley recognition system (optional) which only allows specific programs to be started, depending on the tray that is being inserted. This ensures that all instruments are washed with care.

Water is heated by heating elements at the bottom of the chamber. This process can be speeded up using a boiler (only Speed Cycle version) to heat purified water for the disinfection phase while the machine is carrying out previous washing phases.

Thanks to the LCD (70x50) graphic touch display, it is possible to choose the desired program or to enter the device programming menu. The LCD display also shows the current state of the machine, using animated graphics that appear on it.

Thanks to its ergonomic handle, you can easily open and close the door without having to push it vigorously.

The 5 L detergent containers are inserted in the lateral cabinet (optional) of the machine (max 4 containers)



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Technical Characteristics

HIGH QUALITY STAINLESS STEEL

The washing chamber is made of stainless steel AISI 316 while the chassis is made of stainless steel AISI 304.

DOUBLE GLASS DOOR

The door is made of two layers of tempered glass, that allow to see inside the washing chamber during operation.

COLD WATER SOFTENER SYSTEM

This system softens the cold water that enters the chamber, in order to reduce the formation of limescale inside the machine. Cold water passes through resins, reducing its limescale content. The device automatically regenerates the resins after a certain amount of performed programs (depending on the hardness of the water). To regenerate the resins, water passes through a bowl filled with salt and then through the resins, thus regenerating them. This process takes place when the right program starts.

CHEMICAL PRODUCTS FLOWMETERS

The dosing of the chemical products can be made measuring time or controlled by flowmeters. If the flowmeters do not feel the chemical liquid passing, an alarm will be displayed after few seconds, informing the operator that no liquid has entered the washing chamber.

CHEMICAL PRODUCTS LEVEL

The device is equipped with sensors inside the liquid canisters that constantly monitor the level of the liquids. When a product is nearly consumed, an alarm will be displayed on the LCD monitor.

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HEPA H14 FILTER

This filter blocks fine dust in the air with a 99.995% efficiency. Moreover, not to damage the filter itself, a prefilter is placed before it, to block bigger particles, in order not to clog the HEPA filter. A pressure switch, placed behind the HEPA filter, tells the machine if the filter is clogged, thus generating a dedicated alarm that signals the clogging. If this is the case the HEPA filter must be replaced.

WATER HEATING

Water in the tank is heated by 3 resistors (total 5.25 kW) with tri-phase connection (standard). **Two independent PT1000 probes constantly monitor the temperature inside the washing chamber.**

BOILER (*SPEED CYCLE*)

The speed cycle version comes with a boiler on the washing chamber's side. This boiler is used during the disinfection phase, greatly reducing the disinfection phase's time. The boiler is loaded at the beginning of the cycle with demineralized water. This water is then further heated up to 85 °C for the disinfection phase and it is released inside the chamber when needed. The boiler is equipped with two level probes to monitor the water level, a temperature probe and a safety thermostat.

PRINTER

The printer can be placed on top of the machine (AWD655-8) or on the side of the washing chamber (AWD655-8L ; AWD655-8L-SC). The printer prints a ticket reporting the program that was completed, the time required to carry it out and the temperatures that were reached in each phase. It also indicates whether or not chemicals were used, their quantities and any alarms that may have taken place.

WASHING TROLLEY RECOGNITION

The machine is able to understand whether a trolley is inserted or not. In fact, it is impossible to start a program if there are no trolleys in the washing chamber. The trolley recognition application must be added in order to recognize the type of trolley that is inserted. This application allows the machine to recognize the type of trolley being inserted. Therefore, when a trolley is inserted the machine

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illumination with low energy consumption.

DRAIN COOLING

Throughout some program phases, during drainage, the machine discharges hot water at a temperature of roughly 90 °C. The drain cooling application lowers the temperature of the discharged water to avoid heat damage to drain pipelines by automatically introducing cold water into the washing chamber during the drainage phase.

STEAM CONDENSING SYSTEM

The machine is equipped with a performing steam condensing system. This system starts to operate when steam starts forming inside the machine, during the disinfection phase. Steam is condensed inside a manifold to prevent it from exiting the washing chamber. This system also starts to operate to reduce steam releasing during the drying phase, when the temperature in the washing chamber is very high.

DRYING

Forced air is introduced into the washing chamber during the drying phase, pushed by a blower pump through a set of heating elements that heat it up to 130 °C. Air, like water, exits from the spray arm nozzles at a temperature of 110 °C in order to dry evenly both all the instruments.

The drying phase takes place in a “smart” way: at the start, when the temperature inside the washing chamber is very high, air is pushed into the washing chamber with less force and at intermittent intervals to avoid the release of a great mass of steam formed in the washing chamber. Subsequently, when most of the steam has been diminished by the “steam – condensing” system, air is pushed with greater force and constantly in order to complete the drying phase. A pressure switch (pressure sensor) is installed to check for air leaks and make sure that the right pressure is constantly present inside the ducts carrying air to the washing chamber. An alarm signal on the display alerts the user of any air leak that may occur.

TOUCH-PAD KEYBOARD WITH GRAPHIC DISPLAY

The operator interacts with the machine with a touch-screen panel placed in the upper section of the machine. This keyboard can be used to carry out these procedures:

- Quick selection of the 3 main programs using the 1, 2, 3 keys;
- Selection of one of the 40 programs loaded in the machine (this 40 programs

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include some free programs that can be set according to the customer needs) using the P+ key;

- Start a program by pressing the “Start” key;
- Reset an alarm using the “Reset” key;
- Enter machine programming mode using the “PRG” key;
- Enable or disable the drying phase in a program that includes this phase.

The color graphics display immediately shows the state of the machine by displaying animated graphics and texts. The display also shows the temperatures of the two probes positioned in the washing chamber and the probe of the drying air temperature as well as disinfection value A0, the time remaining to terminate the program and the number of the program that has been started.

ALARM-CHECK SYSTEM

This system helps understanding why an alarm has taken place and suggests how to deal with it without having to refer to the manual. In fact, when an alarm is triggered, the error number appears at the top of the display with an image that shows the error in the central part of the display along with an acoustic signal alert the operator. After a few seconds, a message appears that explains the possible causes that may have led to the alarm.

RS232 PORT

A RS232 port is geared on the mainboard that allows uploading programs from a PC into the machine and, vice versa, uploading the programs installed from the machine to the PC. It is also possible to copy the last alarms that took place in the machine onto the PC.

This port also allows connecting a barcode scanner to the machine for instruments traceability.