

**Shelron**<sup>®</sup>

# WASHER DISINFECTOR

- Under-Bench Models for Laboratory
- Table-Top model for Dental Lab



[www.ShelronEnterprises.com](http://www.ShelronEnterprises.com)



## Washer & Disinfector

### Automatic Door

The systems are designed to be used for washing and disinfecting of labware used in chemical and medical laboratories

- ◆ QC Laboratories
- ◆ Medical Laboratories
- ◆ Hospitals
- ◆ Rehabilitations Centers



High-end washers for the decontamination and cleaning of complex instruments and lab-ware.

- ◆ The timely delivery of clean and sterile labware and instruments
- ◆ ADELA-WD provide a flexible turnkey solution for washing, disinfecting and drying.
- ◆ Avoids many steps involved with manual washing or using ultrasonic cleaners
- ◆ Eliminates exposure to blood, body fluid and risk of cuts from sharp objects
- ◆ Total automation eliminates chance of contamination by physical handling

Flexibility in defining Cleaning Cycle

Can work with

- ◆ Glass Flask & beakers
- ◆ Laboratory Tools
- ◆ Surgical tools
- ◆ OR Containers
- ◆ Rubber material
- ◆ Plastic material

Cleaning Cycles										
Cycle	Short		Standard		Long		Drying		Self Disinfection	
	Temp °C	Time Sec	Temp °C	Time Sec	Temp °C	Time Sec	Temp °C	Time Sec	Temp °C	Time Sec
Pre washing -1	-	-	30	120	30	120	-	-	-	-
Pre-washing-2	-	-	-	-	-	-	-	-	-	-
Washing	50	300	50	300	50	300	-	-	-	-
Rinsing-1	40	300	40	300	40	300	-	-	-	-
Rinsing-2					40	180	-	-	-	-
Rinsing-3	-	-	-	-	-	-	-	-	-	-
Disinfection	93	300	93	300	93	300	-	-	93	300
Drying	60	1500	60	1500	60	1500	50	600	60	1500



## General Characteristics

Control System	Electrical Board
Way of use	Fully automatic, buttons and touch screen
Screen type	Color TFT, 7" Touch LCD
Keypad	Touch Screen
Printer	Thermal printer with 40 Characters (optional)
Communication	RS 232 port / USB, ethernet
Warning System	Audiovisual and written messages
Data storage	200 Cycles
Mobility	Easy orientation with 4 swivel castors and with adjustable heights according to the inclination of the floor
Water Consumption	120 L/ cycle

## Structural Characteristics

Body	2.5 mm AISI 304 stainless steel
Cabin	1.5 mm AISI 316L stainless steel
Door	Tempered Glass
Panel Coating	1.5 mm, AISI 304 stainless steel
Piping	Silicone hose, 1.5 mm AISI 304 Stainless Steel
Chamber Polishing	Electro-polishing

## Installation Requirement

Water	De-ionized or RO water
Installation Power for 200L	~20KW, 3 Phase, 230 VAC
Installation Power for 250L—360 L	~25KW, 3 Phase, 230 VAC
Installation Power for 500L	~27KW, 3 Phase, 230 VAC

Relevant Directives and Standards	
Medical Device	MDD 93/42/EEC—2007/47/EC
Medical Device Class	Class IIb, acc. To EC MDD 93/42/EEC 2007/47/EC (Annex
Low-Voltage	2014/35/EU, EN 60601-1
Electromagnetic Compliance	2014/30/EU, EN 60601-1-2
Washing & Disinfection	EN 15883-1 Series Standards
Quality System	ISO 9001
Medical Device Regulatory	ISO 13485
Environment System	ISO 14001

Safety and Quality
Protection against current leaks and short circuit
Equipped with safety pressure valve
Uses HEPA filter air
Has password protection
Has emergency stop button
Temperature
Operation Range : 15 - 110 °C
Sensor : 3 X PT100 (DIN A Class)
Sensor Positions : Chamber (2), Water (1)
Pressure
Sensor : Cabin (1), Air (1)



**Automatic Sliding Door**

## Washing Trays

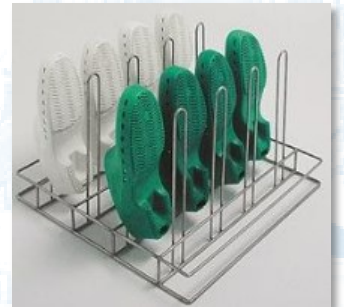


### Anesthesia Rack

Spiral rack provides high efficiency for cleaning. Rack has injectors for 15 X 100 mm, 15 X 30 mm, breathing bellows and masks.

### Shoe Rack

Rack can hold up 15 pair of shoes and is placed in instrument wash cart.



### Container Rack

Containers are arranged in inclined position for efficient cleaning and drying.

### Instrument Rack

The rack has 4 removable shelf with arms for maximizing the washing efficiencies



## Specifications

Model	ADELA-WD 200	ADELA-WD 250	ADELA-WD 360	ADELA-WD 500
Chamber Volume (L)	200	250	360	500
Chamber Depth (mm)	600	600	835	835
Chamber Height (mm)	582	720	720	870
Chamber Width (mm)	618	618	618	618
System Depth (mm)	825	825	1060	1060
System Height (mm)	1860	1960	1960	2010
System Width (mm)	855	855	855	1100
Shipping Depth (mm)	1025	1025	1260	1260
Shipping Height (mm)	2060	2160	2160	2190
Shipping Width (mm)	1055	1055	1055	1300
Single Door				✓
Double Door				✓
Touch Screen (inch)				7
RS232 Communication				✓
Water Heater (KW)	9	9	12.5	12.5
Drying Heater (KW)	5.7	5.7	5.7	5.7
Dryer Air Flow (m <sup>3</sup> /h)	150	150	150	150
Water Pump (KW)	1.4	1.4	2.55	2.75
Water Pump Flow (d/d)	600	600	800	950
Detergent Dosage Pump				✓
Neutralizing Dosage Pump				✓
Electrical Connection	3N+1 50 HZ, 230V			
Drain Pipe OD (mm)	25			
Basket layer	4	5	5	6
DIN Basket	8	12	15	18
HEPA Filter	H14, Particle % 99.999			

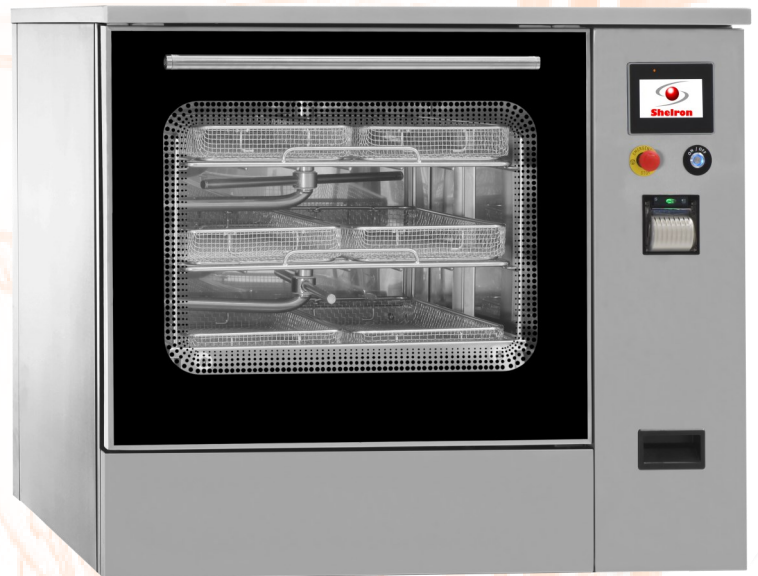
*Every system has option of printer, air-spray, oil and disinfectant dosage pump*



## Under- Bench Washer & Disinfecter

The systems are designed to be used for washing and disinfecting of labware used in compact chemical and medical laboratory space under the bench.

- ◆ QC Laboratories
- ◆ Medical Laboratories
- ◆ Hospitals
- ◆ Rehabilitations Centers



## General Characteristics

Control System	Electrical Board
Way of use	Fully automatic, buttons and touch screen
Screen type	Color TFT, 7" Touch LCD
Keypad	Touch Screen
Printer	Thermal printer with 40 Characters (optional)
Communication	RS 232 port / USB, ethernet
Warning System	Audiovisual and written messages
Data storage	200 Cycles
Mobility	Easy orientation with 4 swivel castors and with adjustable heights according to the inclination of the floor
Water Consumption	120 L/ cycle

Structural Characteristics	
Body	2.5 mm AISI 304 stainless steel
Cabin	1.5 mm AISI 316L stainless steel
Door	Tempered Glass
Panel Coating	1.5 mm, AISI 304 stainless steel
Piping	Silicone hose, 1.5 mm AISI 304 Stainless Steel
Chamber Polishing	Electro-polishing

Installation Requirement	
Water	De-ionized or RO water
Installation Power for 200L	~20KW, 3 Phase, 230 VAC
Installation Power for 175 L	~15KW, 1 Phase, 230 VAC

## Specifications

Dimensions	Washing Chamber	System	Shipping
Depth (mm)	590	840	1010
Height (mm)	457	840	1050
Width (mm)	618	950	1150



## Key Features

- Our washers delivers high performance in a compact footprint.
- Specifically developed racks provide high density loading to optimize use of water and chemicals.
- System are energy efficient and super quite.
- High efficiency in powerful fluid circulation with direct fluid path and rear manifold connections delivers optimal pressure and flow rates.
- Injector jet provides inside out wash and rinse functions.
- Automatic chemical dosing pumps is a standard feature.
- Touch screen controller display to create multistep cleaning cycles and display process progress.
- User defined cleaning cycles permit multiple combination of prewash, wash, rinse and forced air drying.
- 316L stainless steel construction to resist aggressive chemicals and residues.

Model	ADELA-WD 175
Touch Screen (inch)	7
RS232 Communication	✓
Water Heater (KW)	7.5
Drying Heater (KW)	5
Dryer Air Flow (m <sup>3</sup> /h)	50
Water Pump (KW)	0.4
Water Pump Flow (d/d)	325
Detergent Dosage Pump	✓
Neutralizing Dosage Pump	✓
Electrical Connection	1N+1 50 HZ, 230V
Drain Pipe OD (mm)	25
Basket layer	3
DIN Basket	6
HEPA Filter	H14, Particle % 99.999

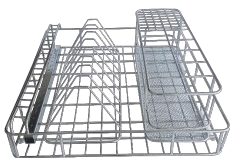
## Dental Washer & Disinfector

We offer complete range of accessories for automated cleaning and disinfection for dental cleaning. systems are designed with modern technologies and our vast experience in providing sterile instrument surgical sections. The system offers safe, efficient and guaranteed performance round the clock.

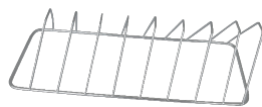


### Specifications

Model	ADELA-WD 40	ADELA-WD 60
	For Dental Clinic	
Chamber Volume (L)	40	60
Chamber Depth (mm)	450	480
Chamber Height (mm)	270	270
Chamber Width (mm)	400	400
System Depth (mm)	650	680
System Height (mm)	685	685
System Width (mm)	680	680
Shipping Depth (mm)	950	980
Shipping Height (mm)	985	985
Shipping Width (mm)	980	980
Touch Screen (inch)	4.3	
RS232 Communication	✓	
Water Heater (KW)	2	2
Drying Heater (KW)	2	2
Dryer Air Flow (m <sup>3</sup> /h)	50	50
Water Pump (KW)	0.4	0.4
Water Pump Flow (d/d)	180	180
Detergent Dosage Pump	✓	
Neutralizing Dosage Pump	✓	
Electrical Connection	1N+1 50 HZ, 230 V	
Drain Pipe OD (mm)	25	
Basket layer	1	1
HEPA Filter	H14, Particle % 99.999	



Loading basket



Tray basket



Mirror & instruments basket



Basic Washing basket



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