

Atom is a system ideal for the automatic washing of medium and large size mechanical parts. The washing is carried out by the action of upper, lower and side jets, and their rotation is ensured by a powerful steel pump. The board is electromechanical. Operators can set the tank liquid temperature as well as the length of the treatment cycle.



- ATOM 1000
- ATOM 1200
- ATOM 1400
- ATOM 1800
- ATOM 2200

### VERSION

Electric, LT, maximum adjustable temperature at 60°C  
Electric, HT, maximum adjustable temperature at 80°C

### SUPPLY VOLTAGE

400V 3PH+N+T 50 HZ (and more on demand)

## EQUIPMENT

### What is included in all ATOM machines

- Timed steam extraction
- Two-hand safety control for the door closing
- Fixed external loading/unloading station with drip-catcher in stainless steel AISI 304
- ISO pneumatic cylinders and “anti-fall” pneumatic safety valves
- Electric pump in cast iron with special Gaskets
- Filter in stainless steel AISI 304 on the pump suction
- Tank liquid minimum level control for the protection of pump and resistor
- Tank liquid maximum level control and solenoid valve for automatic water intake
- Laser-drilled and rotary upper, lower and side washing pipes in stainless steel AISI 304 (more accuracy, less maintenance)
- Electrical resistors in stainless steel Incoloy
- Safety limit switch on the door opening

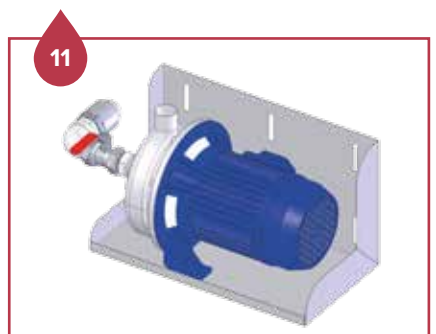
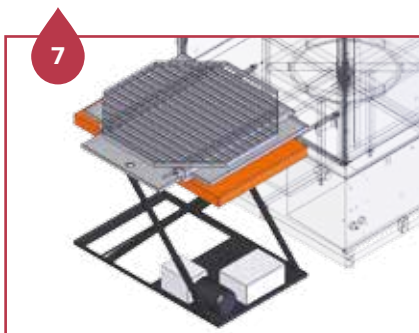
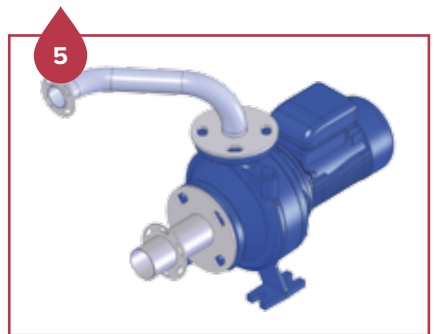
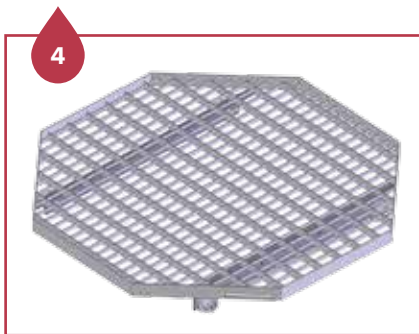
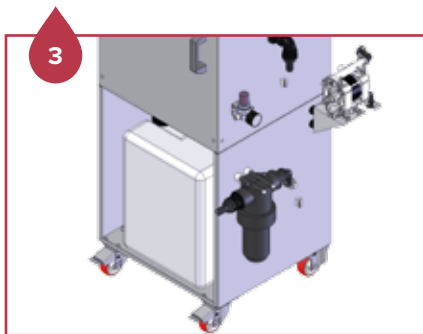
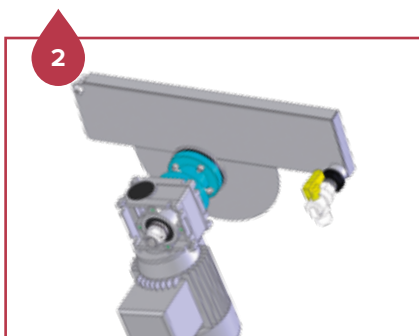
- IP 65 electric system, electromechanical commands
- Stainless steel structure and plates in contact with the liquid
- Lower load-bearing structure in galvanized steel
- Triple door Gasket (lower, upper and side)
- Reinforced basket in pressed grating with raised external edge in galvanized iron
- Sludge discharging door for an easy tank cleaning

### What HT version offers

- Overall thermal insulation with panels of stainless steel A430

**What are the additional accessories**

- Centrifugal steam condenser
  - Thermal insulation of bag filter
  - Automatic liquid detergent dispenser during washing [ 1 ]
  - Disc oil separator with gear motor [ 2 ]
  - External pneumatic oil separator - HT [ 3 ]
  - Bag filter on the washing pump delivery pipe [ E ]
  - Kit for use with abrasive contaminants
  - Kit for use with strongly caustic chemical products
  - Basket in stainless steel AISI 304 [ 4 ]
  - Increased loading capacity to 1,000 kg [ A ]
  - High pressure washing pump [ 5 ]
  - Panels under the platform [ 6 ]
  - External platform with hydraulic elevator, MIN H 30 cm [ 7 ]
  - Heating with diesel or natural Gas burner [ 8 ]
  - Retention tank [ 9 ]
  - Blowing with compressed air and independent pipes
  - Internal welding bleaching
  - Removable edges for grating in stainless steel, H 200 mm [ 10 ]
  - Tank emptying pump [ 11 ]
  - Pipes with blade-nozzle in stainless steel
- [ A ] A stainless steel platform is compulsory  
 [ E ] Thermal insulation of bag filter in the HT version compulsory



## TECHNICAL DATA

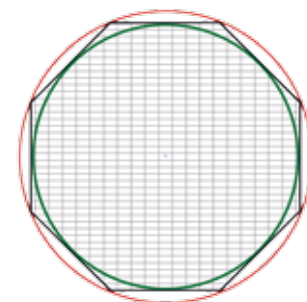
TECHNICAL DATA	ATOM 1000	ATOM 1200	ATOM 1400	ATOM 1800	ATOM 2200
Closed machine dimensions (L x P x H)	165 x 240 x 200 cm	185 x 280 x 210 cm	205 x 310 x 220 cm	240 x 390 x 235 cm	285 x 470 x 240 cm
Opened machine dimensions (L x P x H)	165 x 240 x 275 cm	185 x 280 x 295 cm	205 x 310 x 315 cm	240 x 390 x 340 cm	285 x 470 x 350 cm
Washing capacity (Ø x H)	90 x 70 cm	110 x 80 cm	128 x 90 cm	165 x 100 cm	200 x 100 cm
Basket load capacity	600 kg	600 kg	600 kg	600 kg	600 Kg
Tank capacity	280 lt	350 lt	500 lt	700 lt	1000 lt
Washing pump	3,0 kW 2,5 bar 300 lt/min	3,0 kW 2,5 bar 350 lt/min	3,0 kW 2,5 bar 400 lt/min	3,0 kW 2,5 bar 450 lt/min	3,0 kW 2,5 bar 500 lt/min
High pressure washing pump	5,5 kW 5 bar 300 lt/min	5,5 kW 5 bar 350 lt/min	5,5 kW 5 bar 400 lt/min	5,5 kW 5 bar 450 lt/min	5,5 kW 5 bar 500 lt/min
Washing heating	10,0 kW	12,0 kW	18,0 kW	30,0 kW	40,0 kW
Steam extractor	0,25 kW 320 Nm <sup>3</sup> h	0,25 kW 320 Nm <sup>3</sup> h	0,37 kW 580 Nm <sup>3</sup> h	0,37 kW 580 Nm <sup>3</sup> h	2 x 0,37 kW 1160 Nm <sup>3</sup> h
Disc oil separator	0,09 kW	0,09 kW	0,09 kW	0,09 kW	0,09 kW
Heating with diesel or natural Gas burner	0,17 kW	0,17 kW	0,17 kW	0,17 kW	0,17 kW
Steam condenser	0,20 kW	0,20 kW	0,48 kW	0,48 kW	0,48 kW
Tank emptying pump	0,37 kW	0,37 kW	0,37 kW	0,37 kW	0,37 kW
Supply	3PH+N+PE	3PH+N+PE	3PH+N+PE	3PH+N+PE	3PH+N+PE
Number of nozzles	60	60	70	82	93
Blowing (air consumption at 4 bar))	300 Nm <sup>3</sup> h	300 Nm <sup>3</sup> h	350 Nm <sup>3</sup> h	400 Nm <sup>3</sup> h	550 Nm <sup>3</sup> h

## CONNECTIONS

TYPE	ATOM 1000 - 1200	ATOM 1400 - 1800	ATOM 2200
Steam drain outlet	Ø 80 mm	Ø 100 mm	2 x Ø 100 mm
Tank drain outlet	F 1" 1/4 Gas	F 1" 1/4 Gas	F 1" 1/4 Gas
Water filling solenoid valve	F 3/4" Gas	F 3/4" Gas	F 3/4" Gas
Oil separator drain outlet	M 1/2" Gas	M 1/2" Gas	M 1/2" Gas
Compressed air intake	F 1/4" Gas	F 1/4" Gas	F 1/4" Gas
Tank emptying pump	F 1" 1/4 Gas	F 1" 1/4 Gas	F 1" 1/4 Gas
Burner flue natural Gas/Gas	Ø 130 mm	Ø 130 mm	Ø 130 mm
Upper vent	Ø 130 mm	Ø 130 mm	Ø 130 mm

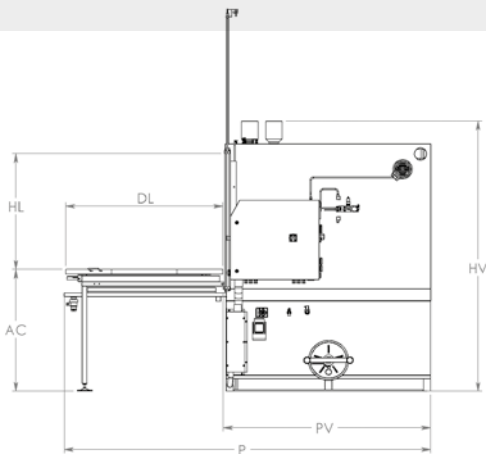
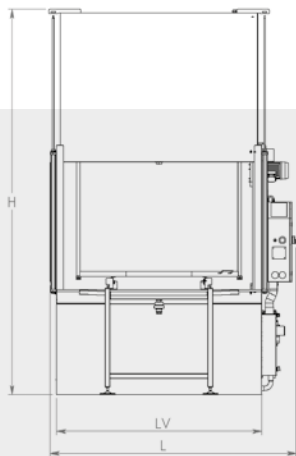
## PLATFORM

MODEL	USEFUL (green line)	MAXIMUM (red line)
1000	Ø 90 cm	Ø 100 cm
1200	Ø 110 cm	Ø 120 cm
1400	Ø 128 cm	Ø 140 cm
1800	Ø 165 cm	Ø 180 cm
2200	Ø 200 cm	Ø 220 cm



# DIMENSIONS

DIMENSIONS	ATOM 1000	ATOM 1200	ATOM 1400	ATOM 1800	ATOM 2200
L (width)	165 cm	185 cm	205 cm	240 cm	285 cm
P (depth)	240 cm	280 cm	310 cm	390 cm	470 cm
H (height)	275 cm	295 cm	315 cm	340 cm	350 cm
DL (washing diameter)	90 cm	110 cm	128 cm	165 cm	200 cm
HL (washing height)	70 cm	80 cm	90 cm	100 cm	100 cm
AC (loading height)	95 cm	95 cm	95 cm	95 cm	95 cm
PV (tank depth)	135 cm	155 cm	175 cm	210 cm	255 cm
HV (tank height)	200 cm	210 cm	220 cm	235 cm	240 cm



SIMPLICITY  
SIMPLICITY

