



Atom



Simplex big 1-tank model



Simplex big 2-tank model

Frontloaded spray washers

Simplex Atom/Big frontloaded machine

Description Simplex Big 1 or 2 tank machine

Simplex Big is a front-loaded spray washer that automatically cleans medium to large size mechanical goods. Washing is performed by means of an upper, lower and lateral spray-arch which sprays the goods while the platform is slowly rotated by a gear motor with a torque limiter. The machine is available in 1 and 2 tank models. It is available in an uninsulated variant (LT) that has a temperature limit of 60 ° C and an insulated variant that can be used up to 80 ° C. With the PLC, the operator can handle time, temperatures, levels, signals and alarms. The easy-to-use and intuitive software can display information in many languages.

Standard equipment LT version:

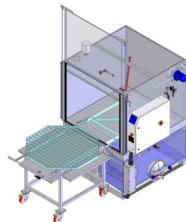
Ventilation fan with timer shutdown.
Two-hand operation for pneumatic door with valve.
External trolley with AISI 304 stainless steel drip collector and wheels with safety brake.
Stainless steel electric pump (s).
AISI 304 stainless steel filter on the suction side of the pump.
Minimum level control of the liquid to protect the pump and heating cartridge.
High-level control of the liquid and solenoid valve for automatic water intake.
Gear motor rotation of platform with torque limiter and centering sensor.
Stainless steel heating cartridge.
Safety switch for loading hatch.
Electric Box IP65, PLC Electrical System (DGT V4).
Stainless steel sheet metal construction.
Bearing construction of galvanized iron.
Triple door gaskets (lower, upper and lateral).
Load table in galvanized grille with raised outer edges.
Sludge hatches for easier tank cleaning.
Connection 400V /3PH+N+PE/ 50Hz.



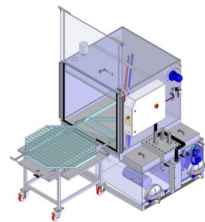
Manually controlled washing pump and rotation (only for simplex).



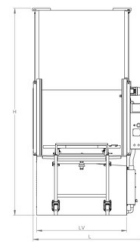
Additional trolley (only for simplex).



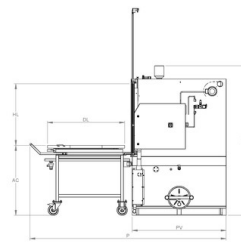
Simplex big 1-tank modell.



Simplex big 2-tank modell.



Layout simplex big, 1-tank.



External oil separator

Specific HT-version equipment:

Cabin insulated as well as cladding with AISI 430 stainless steel panels.

Specific equipment 2-tank machine

Two-tank (wash / rinse) model with liquid distributor.

Specific equipment Atom machine

Rotation of the arc is driven by the spraying pressure.

Electric pump in cast iron.

Fixed, external loading platform.

Electromechanical Control System IP65.

Technical data Simplex Atom/Big: 1-tank machines

	Atom 1000LT / Atom 1000HT Big 1000LT / Big 1000HT	Atom 1200LT / Atom 1200HT Big 1200LT / Big 1200HT	Atom 1400LT / Atom 1400HT Big 1400LT / Big 1400HT	Atom 1800LT / Atom 1800HT Big 1800LT / Big 1800HT	Atom 2200LT / Atom 2200HT Big 2200LT / Big 2200HT
External measures BxDxH closed hatch*	1650x2600x2000 mm	1850x3000x2100 mm	2050x3300x2200 mm	2400x3950x2350 mm	2850x4800x2400 mm
External measures BxDxH open hatch*	1650x2600x2750 mm	1850x3000x3150 mm	2050x3300x3150 mm	2400x3950x3400 mm	2850x4800x3450 mm
Max goods dimensions diameter/height	900/700 mm	1100/800 mm	1280/900 mm	1650/1000 mm	2000x1000 mm
Max goods weight atom/big	600kg/ 600 kg	600kg/ 600 kg	600kg/ 600 kg	600 kg/800 kg	600kg/ 800 kg
Tank volume in liters	280 liter	350 liter	500 liter	700 liter	1000 liter
Washing pump	2,5bar / 300l/min / 3kW	2,5bar / 350l/min / 3kW	2,5bar / 400l/min / 3kW	2,5bar / 450l/min / 3kW	2,5bar / 500l/min / 3kW
High pressure pump (accessory atom)	5bar / 300l/min / 5,5kW	5bar / 350l/min / 5,5kW	5bar / 400l/min / 5,5kW	5bar / 450l/min / 5,5kW	5bar / 500l/min / 5,5kW
High pressure pump (accessory big)	4,5bar / 300l/min / 5,5kW	4,5bar / 350l/min / 5,5kW	4,5bar / 400l/min / 5,5kW	4,5bar / 450l/min / 7,5kW	4,5bar / 500l/min / 7,5kW
Output heating cartridge	10kW	12kW	18kW	30kW	40kW
Mechanical rotation of platform (big)	0,18kW	0,18kW	0,18kW	0,18kW	0,18kW
Steam extractor	0,25kW/320m³/h	0,25kW/320m³/h	0,37kW/580m³/h	0,37kW/580m³/h	2x 0,37kW/1160m³/h
Pressurized air consumption (4bar)	300m³/h / 250 m³/h	300m³/h / 300m³/h	350m³/h / 350 m³/h	400m³/h / 400 m³/h	450m³/h / 500 m³/h
Steam condenser (accessory)	0,20kW	0,20kW	0,48kW	0,48kW	0,48kW
Tank emptying pump (accessory)	0,37kW	0,37kW	0,37kW	0,37kW	0,37kW
Drying by resistors (accessory, big)	5,2kW	5,2kW	5,2kW	8,2kW	8,2kW

*Approximate measurements

Technical data Simplex Big: 2-tank machines

	Big 1000-22LT Big 1000-22HT	Big 1200-22LT Big 1200-22HT	Big 1400-22LT Big 1400-22HT	Big 1800-22LT Big 1800-22HT	Big 2200-22LT Big 2200-22HT
External measures BxDxH closed hatch	2050x2600x2000 mm	2300x3000x2100 mm	2500x3300x2200 mm	2800x4000x2350 mm	3300x4800x2400 mm
External measures BxDxH open hatch	2050x2600x2750 mm	2300x3000x2950 mm	2500x3300x3150 mm	2800x4000x3400 mm	3300x4800x3450 mm
Max goods dimensions diameter/height	900/700 mm	1100/800 mm	1280/900 mm	1650/1000 mm	2000x1000 mm
Max goods weight	600 kg	600 kg	600 kg	800 kg	800 kg
Tank volume (wash/rinse)	250/250 liter	300/300 liter	400/400 liter	550/550 liter	750/750 liter
Pump (wash/rinse)	2,5bar / 300l/min / 3kW	2,5bar / 350l/min / 3kW	2,5bar / 400l/min / 3kW	2,5bar / 450l/min / 3kW	2,5bar / 500l/min / 3kW
High pressure pump (addition)	4,5bar / 300l/min / 5,5kW	4,5bar / 350l/min / 5,5kW	4,5bar / 400l/min / 5,5kW	4,5bar / 450l/min / 7,5kW	4,5bar / 500l/min / 7,5kW
Output heating cartridge (wash/rinse)	10/10kW	12/12kW	16/16kW	20/20kW	30/30kW
Mechanical rotation of platform	0,18kW	0,18kW	0,18kW	0,18kW	0,18kW
Steam extractor	0,25kW/320m³/h	0,25kW/320m³/h	0,37kW/580m³/h	0,37kW/580m³/h	2x 0,37kW/1160m³/h
Pressurized air consumption (4 bar)	250m³/h	300m³/h	350m³/h	400m³/h	500m³/h
Steam condenser (accessory)	0,20kW	0,20kW	0,48kW	0,48kW	0,48kW
Tank emptying pump (accessory)	0,37kW	0,37kW	0,37kW	0,37kW	0,37kW
Drying by resistors (accessory)	5,2kW	5,2kW	5,2kW	8,2kW	8,2kW

Accessories

High pressure pump	Yes	Yes	Yes	Yes	Yes
Disc oil separator	Yes	Yes	Yes	Yes	Yes
External oil separator HT	Yes	Yes	Yes	Yes	Yes
Additional trolley ACSB011 (only big)	Yes	Yes	Yes	Yes	Yes
Additional galvanized platform (only big)	Yes	Yes	Yes	Yes	Yes
Additional stainless platform (only big)	Yes	Yes	Yes	Yes	Yes
Bag filter on washing pump	Yes	Yes	Yes	Yes	Yes
Thermally insulated bag filter	Yes	Yes	Yes	Yes	Yes
Emptying pump	Yes	Yes	Yes	Yes	Yes
Compressed air blowing (only 1-tank)	Yes	Yes	Yes	Yes	Yes
Centrifugal steam condenser ACSB002	Yes	Yes	Yes	Yes	Yes
Manual washing, pump external command and rotation (only big)	Yes	Yes	Yes	Yes	Yes
Resistor and blower drying (only big)	Yes	Yes	Yes	Yes	Yes
Retention tank	Yes	Yes	Yes	Yes	Yes
Automatic detergent dispenser	Yes	Yes	Yes	Yes	Yes
Rinsing by water supply and direct drain outlet (only big)	Yes	Yes	Yes	Yes	Yes
Internal welding bleaching	Yes	Yes	Yes	Yes	Yes
Machine raised 400mm(only big) (HT/LT)	Yes	Yes	Yes	Yes	Yes

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