

SANITIZER & DISINFECTANT SPRAY PUMP PACKAGES



WHY SANITATION & DISINFECTION?

Cleaning, Sanitizing and Disinfecting are some of the essential activities of any healthy society, preventing spread of infectious diseases.

Sanitizers reduce micro-organisms on a surface, to a level considered safe by public health standards, whereas **disinfectants** kill bacteria, viruses and fungi on a surface.

WONDERING HOW TO SPRAY....

**SANITIZERS?
DISINFECTANTS?
DEODOURIZERS?
ON LARGE SURFACES?
IN SHORT TIME?
EFFECTIVELY?**

SAMOA SPRAY PUMP PACKAGES HAS IT ALL...

SAMOA[®] – Europe's largest positive displacement pump manufacturer and one of the global leaders in pumping & spraying systems, manufactures specialty pumps for these liquid disinfectant solutions to spray very fine, dry, fog-like mist at high pressures with minimal fluid consumption, whilst allowing coverage on large surfaces in shortest time.



SAMOA

LEADING THROUGH INNOVATION

SANITIZER & DISINFECTANT SPRAY PUMP PACKAGES

AVAILABLE AS

- **ELECTRIC OPERATED UNITS (110 V / 240 V AC)**
- **AIR OPERATED UNITS (CE ATEX CERTIFIED)**
- **ENGINE DRIVEN UNITS (AUTONOMOUS)**

ELECTRIC DRIVEN DIAPHRAGM TYPE



- 110 V / 220 V AC ELECTRIC DRIVEN
- COMPACT, STAND MOUNTED, EASY-TO-CARRY UNITS
- CAN HANDLE CLEAN AND ABRASIVE LIQUIDS
- PLUG & PLAY COMPLETE PUMP UNIT WITH 6 M ELECTRIC CABLE, 10 M x ¼" HOSE, 6L RESERVOIR, AIRLESS SPRAY GUN WITH 60 CM EXTENSION AND 9-40 SPRAY TIP
- MOTOR POWER : 0.75 KW
- MAXIMUM PRESSURE : 250 BAR
- MAXIMUM DELIVERY : 2.2 LPM

Wetted materials: Aluminum, Galvanized Steel, Nylon and Tungsten Carbide.

1. **LA411 020**, Electric diaphragm pump, 220 V
2. **LA411 010**, Electric diaphragm pump, 110 V

DIMENSIONS: 40 CM x 44 CM X 50 CM, WEIGHT: 24 KG

ELECTRIC DRIVEN DIAPHRAGM TYPE



- 110 V / 220 V AC ELECTRIC DRIVEN
- HIGH PRESSURE PUMP
- CAN HANDLE CLEAN AND ABRASIVE LIQUIDS
- ALSO AVAILABLE WITH A 50 L PVC TANK
- MOTOR POWER : 2.2 KW
- MAXIMUM PRESSURE : 250 BAR
- MAXIMUM DELIVERY : 8 LPM

Wetted materials: Aluminum, Galvanized Steel, Nylon and Tungsten Carbide.

1. **LA412 229**, Electric diaphragm pump with 50 L tank, 220 V
2. **LA412 119**, Electric diaphragm pump with 50 L tank, 110 V

ITEMS 1 & 2 DIMENSIONS: 90 CM x 65 CM X 135 CM, WEIGHT: 90 KG

SANITIZER & DISINFECTANT SPRAY PUMP PACKAGES

AIR OPERATED PISTON TYPE



- COMPRESSED AIR DRIVEN (3 – 7 BAR AIR INLET)
- CE ATEX CERTIFIED
- CAN BE USED WITH FLAMMABLE LIQUIDS LIKE ALCOHOLS, SOLVENTS ETC.
- PUMP PRESSURE RATIO : 30:1
- MAXIMUM AIR INLET PRESSURE : 7 BAR
- MAXIMUM OUTLET PRESSURE : 210 BAR
- MAXIMUM FLOW DELIVERY : 3.7 LPM

Wetted materials: AISI 303 and 420 stainless steel, PTFE, Polyethylene and Tungsten Carbide

Part No. **LA142 1C4**. 30:1 Air Operated Piston Pump, ATEX certified

DIMENSIONS: 100 CM x 54 CM X 60 CM

WEIGHT: 65 KG

SANITIZER & DISINFECTANT SPRAY PUMP PACKAGES

ENGINE DRIVEN DIAPHRAGM TYPE



- PETROL ENGINE DRIVEN AUTONOMOUS UNIT
- MOUNTED ON EASY TO MANEUVER TROLLEY
- CAN HANDLE CLEAN AND ABRASIVE LIQUIDS
- AVAILABLE WITH 30 L / 50 L PVC TANK
- ENGINE POWER : 5.5 HP
- MAXIMUM PRESSURE : 210 BAR
- MAXIMUM DELIVERY : 4 LPM

Wetted materials: Aluminum, Galvanized Steel, Nylon and Tungsten Carbide.

- **LA491 011** Autonomous sanitation unit with 30 L tank
- **LA491 012** Autonomous sanitation unit with 50 L tank

DIMENSIONS: 140 CM x 82 CM X 125 CM WEIGHT: 150 KG

CONVENTIONAL SPRAYERS – LIMITATIONS / DRAWBACKS

- Used generally to spray chemicals, pesticides, degreasers, detergents etc.
- Fluid consumption is high and requires more time for drying off.
- Requires a lot of time for covering a large area.
- Requires frequent re-filling
- Pressure limited to 3 bar
- Range of atomization is small, with big droplets.
- Doesn't produce dry fog spray, but more wet spray
- Requires cleaning and wiping off the surface after application
- Applicable only for light use. Pressure drops when liquid level drops.
- Droplet size is big which means interphase area is smaller and hence the disinfection rate is significantly low.



PRESSURE WASHERS – LIMITATIONS / DRAWBACKS

- Used generally for high pressure cleaning.
- Although these units can reach high pressures, the nozzle sizes are big and hence can't break liquid jet to generate a very fine dry fog effect.
- Heavy drips and runs doesn't allow the disinfectant to achieve specified dwell times.
- Wet high flow jet makes it unusable for indoor applications
- High droplet sizes make it ineffective for proper disinfection
- High flowrates makes it non-economical
- Uneven and inconsistent coverage across surfaces.
- High drying-off time.
- Requires an additional step of wiping off excess fluid



SAMOA SPRAYERS - FEATURES & BENEFITS – Page 1

- **QUICK** : ‘Fastest’ spray application method and sprayers for disinfection, sanitation & deodourizing.
- **EVEN** : Even and consistent coverage over smooth, rough and uneven surfaces.
- **CLEAN** : No heavy drips & runs to achieve specified disinfectant ‘dwell time’ and no residues. No need of manual drying or wiping.
- **FINE** : Very fine dry spray ensures disinfection without humidifying the surface (Droplet sizes below 10 microns)
- **POWERFUL** : High pressures between 100-250 bar ensures the fog is applied and attached onto the surface rather than being airborne.
- **EFFECTIVE** : ‘High droplet coverage per square area’ ensures highest disinfection rates. (i.e. almost 1,150,000 droplets per square inch)
- **SAFE** : Availability of ‘CE ATEX certified’ spray units to be used with solvents, alcohols and other flammable liquids.



SAMOA

LEADING THROUGH INNOVATION

SANITIZER & DISINFECTANT SPRAY PUMP PACKAGES

FEATURES & BENEFITS – Page 2

- **EFFICIENT** : Airless technology atomizes fluid to cover large areas with 'minimum fluid consumption'. It can cover 322 sq ft (30 sqm) with just 1 litre at a pump flow rate of 0.25 lpm.
- **RELIABLE** : 'Solid & rugged construction' with high quality materials ensures sprayers to be used in dry, wet, damp, humid & corrosive environments.
- **COMPACT** : Easy to place, move around and store units.
- **SIMPLE DESIGN** : Combination of high pressure and small droplets ensure, it can cover large surfaces and 'hard to reach surfaces' in shortest time.
- **PORTABLE** : 'Easy to manoeuvre' trolley mounted or 'easy to carry' stand mounted units.
- **FLEXIBLE** : Easily variable flowrates and discharge pressures.
- **VERSATILE** : One or two discharge outlets can be connected and operated simultaneously.
- **SELF-PRIMING** : Can be used with pails, drums, IBC totes, large containers & tanks, 'eliminating frequent re-filling'.



SAMOA

LEADING THROUGH INNOVATION

SANITIZER & DISINFECTANT SPRAY PUMP PACKAGES

FEATURES & BENEFITS – Page 3

- **UNIVERSAL** : Compatible with a broad range of water based chemicals, soap solutions, solvents, sodium hypochlorites, 1% peracetic acids, 1% hydrogen peroxide, ammonium compounds, ethanol, other alcohols etc.
- **HEAVY-DUTY** : Can be used ‘intermittent or intensive’ applications without any performance drop.
- **USER-FRIENDLY** : Simple to operate & easy to maintain.
- **EUROPEAN** : 100% Made in Italy, in one of the SAMOA Industrial Group’s state-of-the-art manufacturing plants.
- **LEAD TIMES** : Shortest manufacturing leadtime of 3- 5 days
- **AVAILABILITY** : Available through SAMOA Subsidiaries across the globe or through authorized distributor network present in over 115 countries.
- **SUPPORT** : Available 24x7 at all SAMOA locations across the globe.
- **WARRANTY** : 2 year limited warranty against manufacturing defects, material or workmanship defects

ACCESSORIES

Airless spray gun

Part Number **LA501 240** – includes **LA510 136** high flow mist spray tip

Part Number **LA501 241** – includes **LA510 094** low flow fog type spray tip

Maximum working pressure 250 bar.

Spray tips

Part number **LA510 074** – 0.17 mm tip with 40° spray angle

Part number **LA510 094** – 0.22 mm tip with 40° spray angle

Part number **LA510 114** – 0.28 mm tip with 40° spray angle

Part number **LA510 136** – 0.33 mm tip with 60° spray angle

Included with high pressure spray guns.

Spray gun extension outlet

Part Number **LA501 902**. 60 cm long

Part Number **LA501 904**. 100 cm long



ACCESSORIES

Pole Guns.

Spray guns specially designed for having an easy access to hard to reach areas. Extra long outlet with a Z swivel before the spray tip for a better spray control. Each pole gun includes a one spray nozzle (P.N. 510 136)

Part Number LA501 510. 130 cm with 0.33 mm - 60° high flow mist spray tip

Part Number LA501 511. 180 cm with 0.33 mm - 60° high flow mist spray tip

Part Number LA501 512. 240 cm with 0.33 mm - 60° high flow mist spray tip

Part Number LA501 515. 130 cm with 0.22 mm - 40° low flow fog type spray tip

Part Number LA501 516. 180 cm with 0.22 mm - 40° low flow fog type spray tip

Part Number LA501 517. 240 cm with 0.22 mm - 40° low flow fog type spray tip

Two hoses connection kit for pump outlet

Part number LA560 015

Pump outlet adaptor to connect two hoses at same time.



ACCESSORIES

Suction hoses and siphon kits

Part numbers

- | | |
|------------------|---|
| LA567 003 | Siphon kit for 30 L cans |
| LA567 012 | Siphon kit for 200 l drums, made in stainless steel |
| LA567 150 | Suction hose for 1000 L IBCs |

High pressure 1/4" hoses – 228 bar

Part Numbers

- | | |
|------------------|-------|
| LA560 010 | 10 m. |
| LA560 015 | 15 m. |
| LA560 020 | 20 m. |
| LA560 030 | 30 m. |





SAMOA

LEADING THROUGH INNOVATION

SANITIZER & DISINFECTANT SPRAY PUMP PACKAGES

POTENTIAL APPLICATION AREAS

- AIRPORTS
- WAREHOUSES & DEPOTS
- SHIPS & MARINE YARDS
- LARGE MANUFACTURING PLANTS
- ROADS / STREETS
- HOSPITALS, CLINICS & HEALTH CENTRES
- MILITARY AND DEFENCE AREAS
- SHOPPING CENTRES AND MALLS
- BUS & RAIL STATIONS
- RENTAL FLEET COMPANIES
- OILFIELDS, RIGS & PLATFORMS
- LARGE CONSTRUCTION SITES
- PARKING LOTS
- STADIUMS & SPORTS CENTRES
- PRISONS
- COURIER HUBS & LOGISTIC CENTRES



SAMOA

LEADING THROUGH INNOVATION

SANITIZER & DISINFECTANT SPRAY PUMP PACKAGES

For more details, contact;



Thorite

AIR • FLUID • POWER • PERFORMANCE

Thorite House,
Laisterdyke, Bradford, West Yorkshire
BD4 8BZ, United Kingdom
Tel: 01274 663471;
process@thorite.co.uk
www.thorite.co.uk

Disinfectant Sprayers: <https://youtu.be/j1gnRptw6Ss>

Watch our corporate video: <https://youtu.be/>

