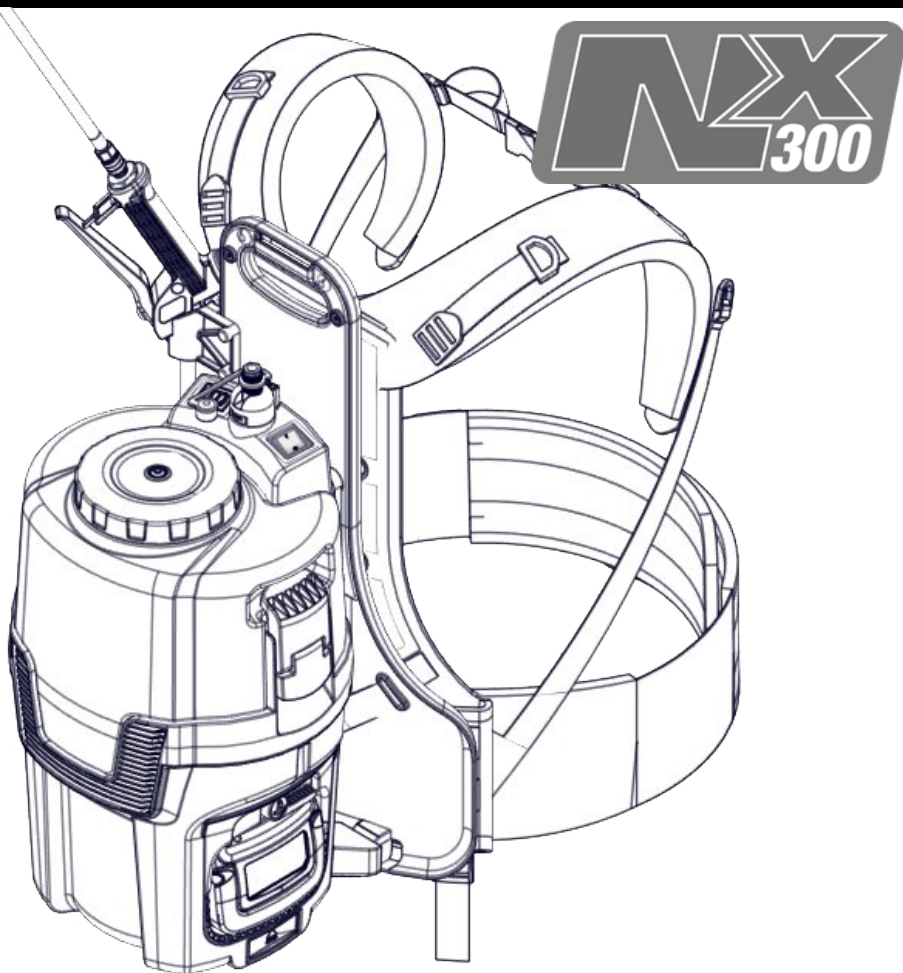


RSU150 NX

Numatic

numatic.com

NUMATIC RUCKSACK SANITISER UNIT BATTERY POWERED



Original Instructions

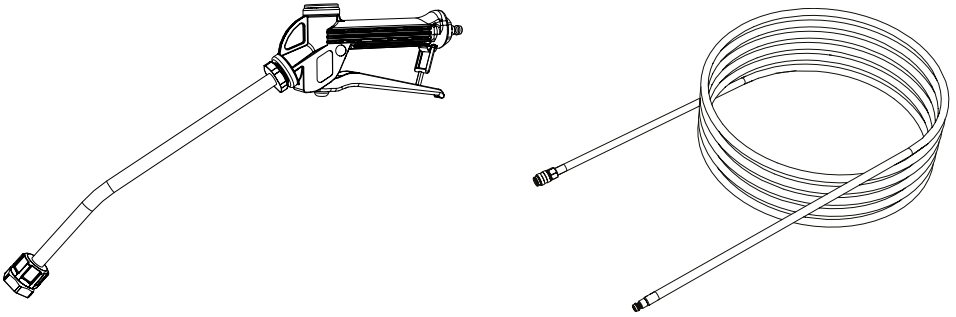
CAUTION,

Read instructions before using the machine.

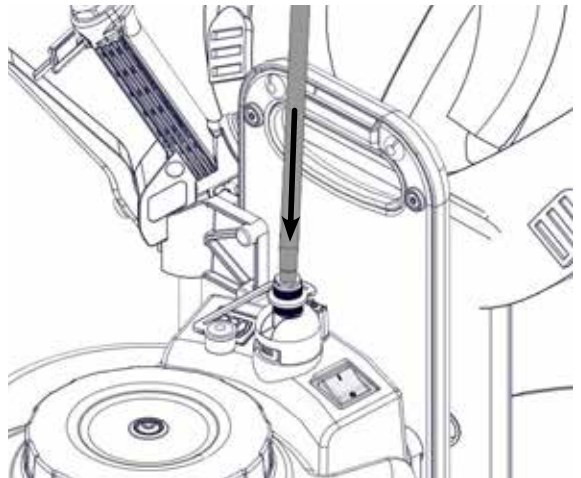
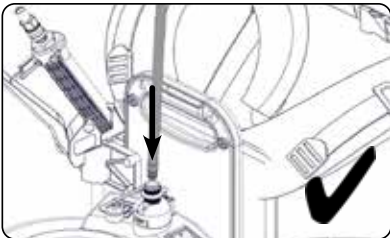
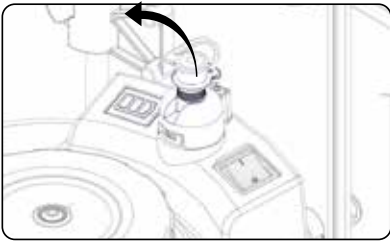
This machine is not suitable for
spraying / sanitising electrical items.
KEEP FOR FUTURE REFERENCE



Kit - Lance & Solution Tube



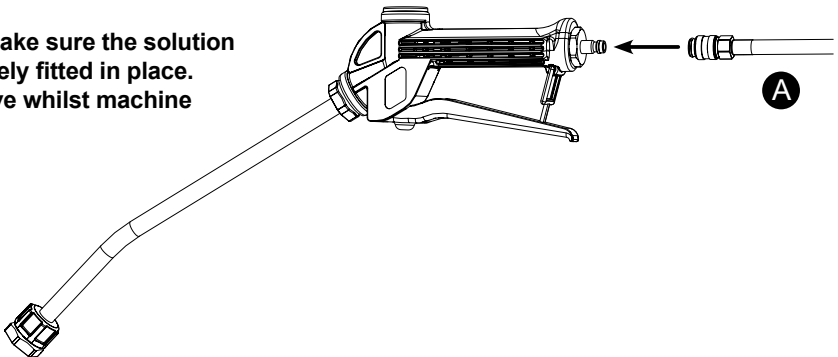
Assembly - Solution Tube to Machine

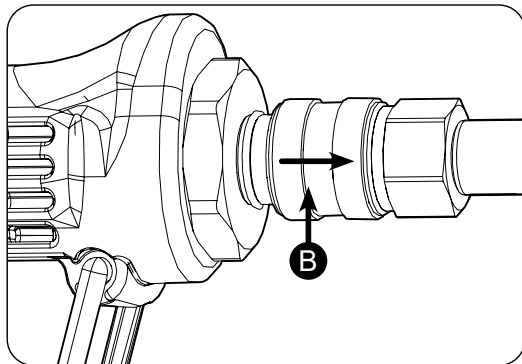
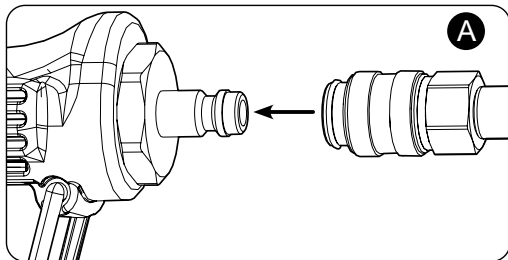


WARNING: Make sure the solution tube is securely fitted in place. Do not remove whilst machine is running.

Assembly - Solution Tube to Lance

WARNING: Make sure the solution tube is securely fitted in place. Do not remove whilst machine is running.





To release the solution tube push the quick release connection in the direction shown (Fig B). Pull out the solution tube.

Chemical Dosage

Remove the solution tank from the machine prior to filling with cold water and chemical to avoid spillage onto the machine. (See following page).

HSE SR2 COSHH essentials for service and retail, Add liquid concentrate to diluting liquid - never the other way around, unless the instructions say so.

WARNING:

DO NOT USE WITH WATER ABOVE 20°C

TECcare Dosage

2 Litres = 24 ml

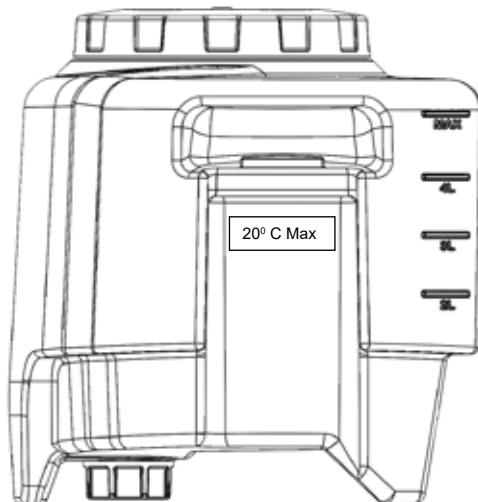
3 Litres = 36 ml

4 Litres = 48 ml

5 Litres = 2 x 30ml (full cups)

Note: Chemical dosage should be strictly adhered to and only applies to Numatic supplied chemical. Users must always refer to the manufacturer's data sheet for dilution rates.

Chemical dosage cup (30ml) Part No – 912811.



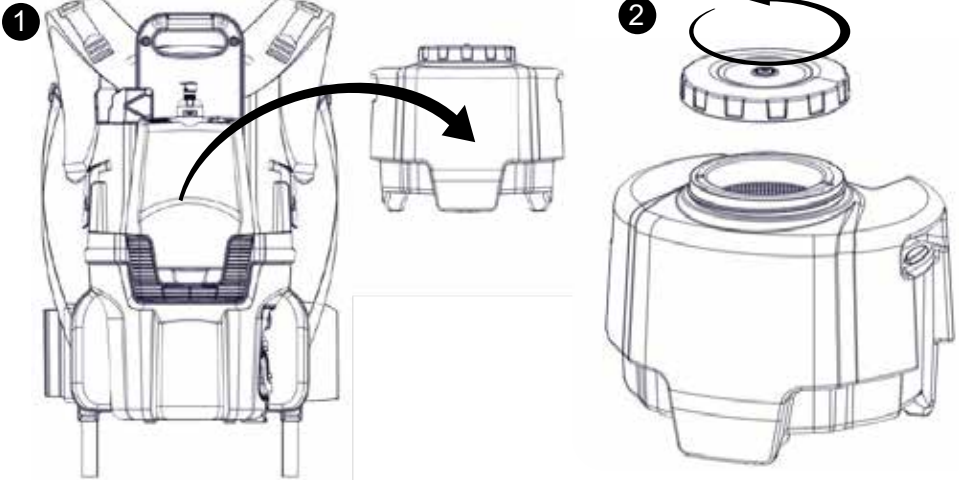
WARNING: Any deviation from the manufacturer's dilution rates, could cause reduced cleaning strength or a high concentration of sanitising mist.

Make sure the correct PPE is worn when handling the chemical concentrated solution.



Chemical Dosage Machine Setup

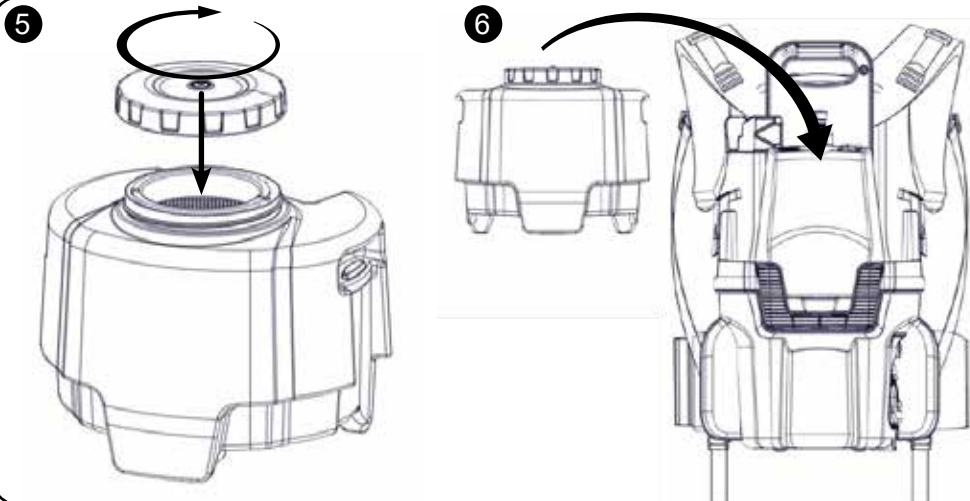
Remove the solution tank to fill with cold water and chemicals, this is to avoid spilling liquid on to the machine.



- 3** Fill the solution tank with the required amount of COLD water. See dosage table on the previous page.



- 4** Fill the solution tank with the correct chemical dosage.



Chemical Information

Note: Inappropriate selection of disinfectant solution may result in damage to unit including corrosion, pump failure, reduction in mist performance etc. The RSU is fully compatible with disinfection solutions based on Quaternary Ammonium Salts or Hypochlorous Acid using appropriate dilution levels. Use of other chemical / disinfectant solutions may invalidate warranty. Never spray into or towards face.

WARNING IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If medical advice is needed, have product container or label at hand.
Always refer to the MSDS (manufacturer's safety data sheet) for safe usage and disposal.
Only use the chemicals / detergent solution provided. Replacements available from Numatic.

TECcare CONTROL Concentrate.



Hazards Identification

P264: Wash hands thoroughly after handling

P280: Wear protective gloves/eye protection

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P302+352: IF ON SKIN: Wash with plenty of water.

P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a doctor if you feel unwell.

This chemical should be kept in the packaging/container provided, as other containers might not provide the required protection and preservation of the chemical.

Environmental precautions: Do not discharge in to drains or rivers.



TECcare CONTROL Concentrate Hazardous ingredients:

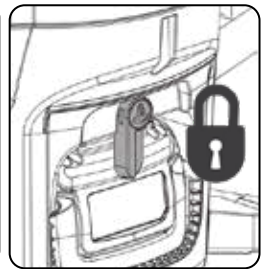
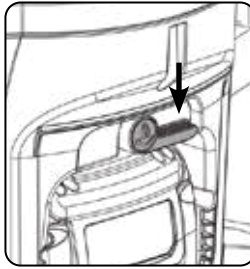
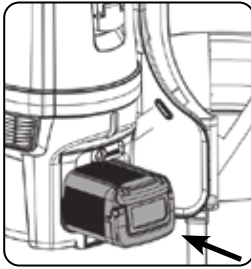
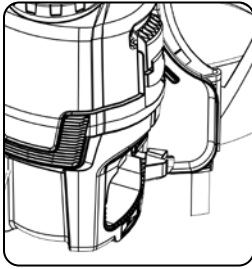
DIDECYLDIMETHYLAMMONIUM CHLORIDE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
230-525-2	7173-51-5	Xn: R22; C: R34	Acute Tox. 4: H302; Skin Corr. 1B: H314 H314	<4.5 %

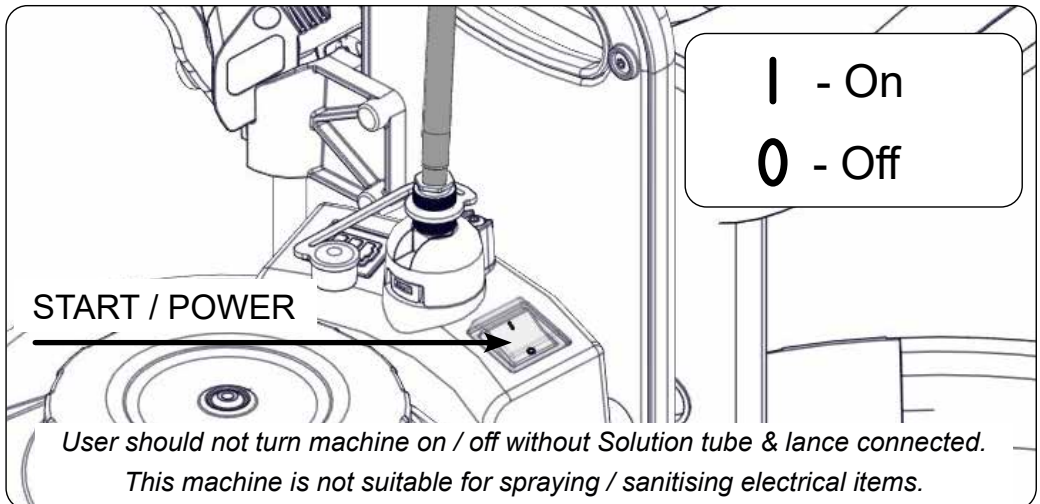
ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
270-325-2	68424-85-1	Xn: R21/22; C: R34; N: R50	Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Acute 1: H400	<2.5 %

Assembly - Battery Fitting



Power



During start up.

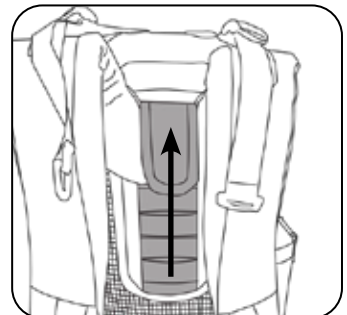
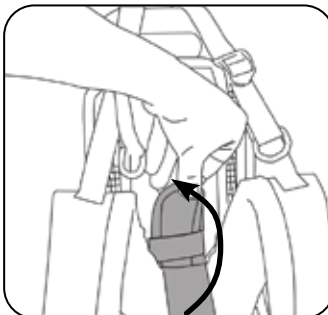
If you are using the RSU sanitiser for the first time or after it has been de-pressurised you will need to prime the fluid supply to allow the pump to reach optimal operating pressure.

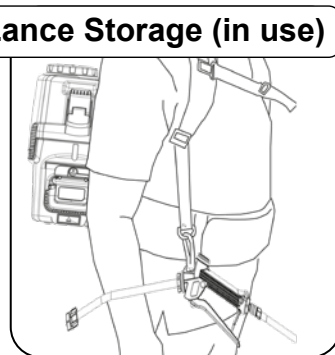
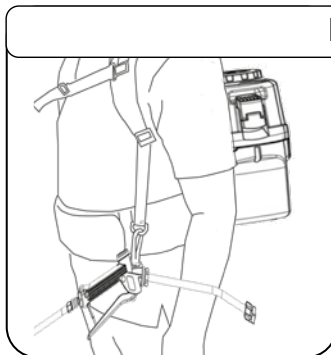
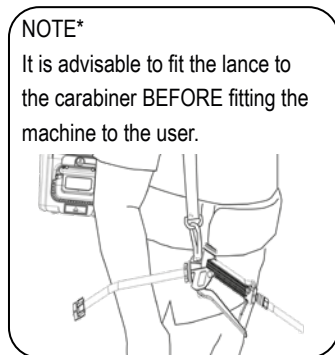
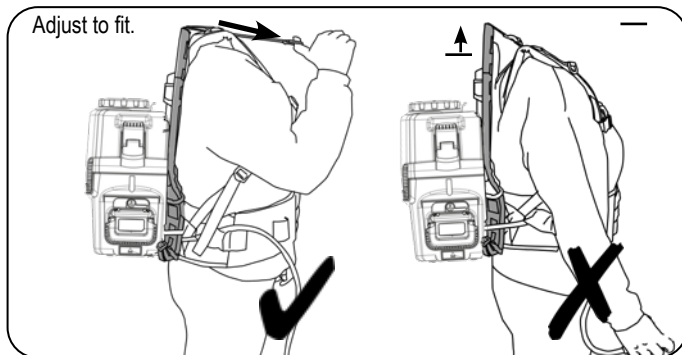
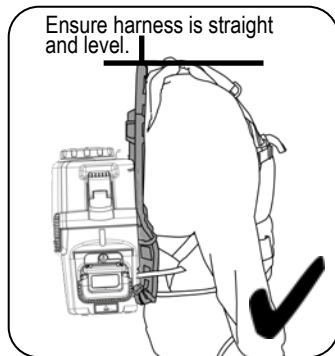
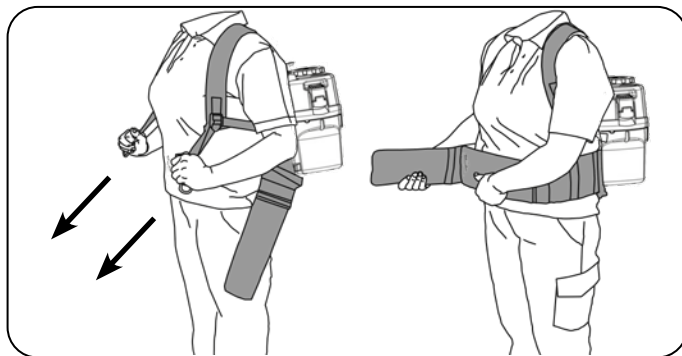
During priming hold the lance in a vertical position to reduce any dripping when the trigger is applied.

Caution: The initial priming of the machine can take 1 to 2 minutes. Subsequent refilling of the solution tank will not require re-priming unless system has been de-pressurised.

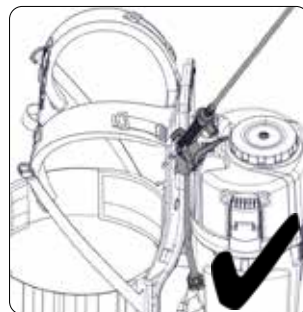
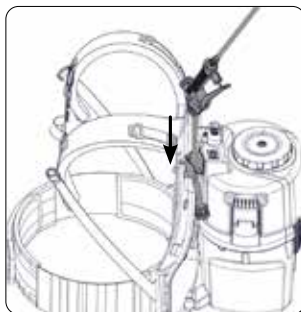
Using the machine

Adjusting harness height





Lance Storage



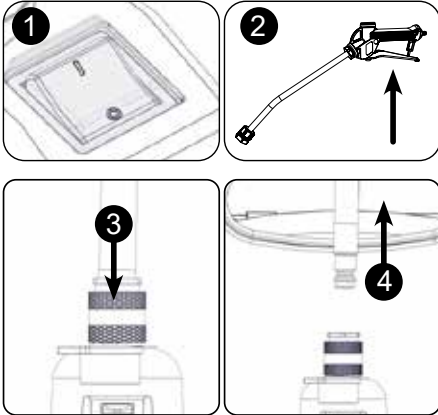
Lance Storage (in use)

De-pressurising the machine

Important - Always remove the battery from the machine after use.

Removing the lance hose: The system must be de-pressurised before disconnecting the lance hose. This is achieved firstly by turning off the machine via the on / off switch. Depress the lance trigger to discharge any pressurised fluid left in the system. Remove the lance via the quick release connection and then release the lance hose via the quick release connection located at the top of the RSU150 NX.

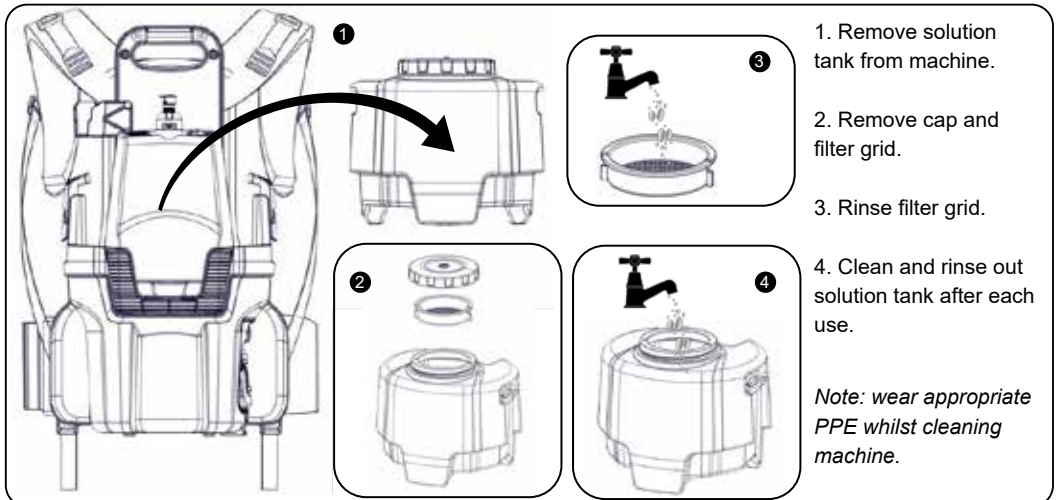
A small amount of cleaning solution may still leak after the hose is disconnected. Always wear eye protection and gloves whilst performing this operation. Failure to adhere to this procedure may result in pressurised fluid being discharged.



The system must be de-pressurised before disconnecting the solution tube.

1. Turn the machine off using the on / off switch.
2. Pull and hold the lance trigger until fluid stops flowing.
3. To release the Lance hose pull the quick release connection in the direction shown.
4. Pull out the Lance hose.

Cleaning the machine



1. Remove solution tank from machine.

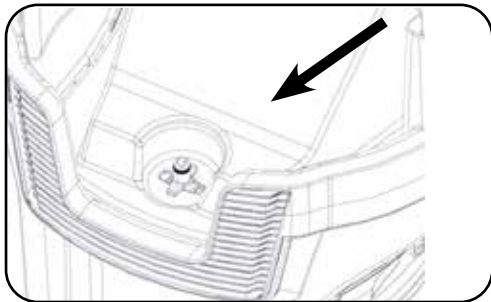
2. Remove cap and filter grid.

3. Rinse filter grid.

4. Clean and rinse out solution tank after each use.

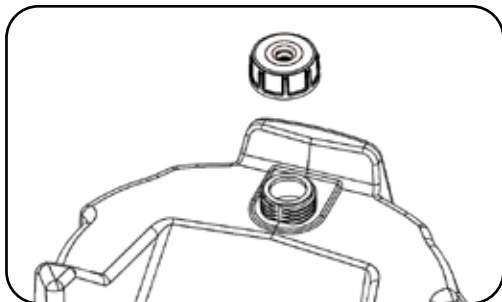
Note: wear appropriate PPE whilst cleaning machine.

Male Tank feed O ring



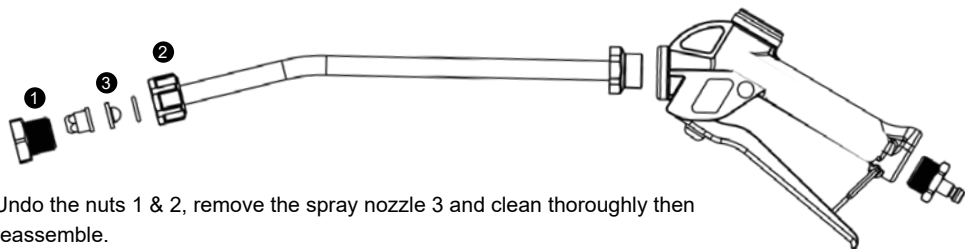
Male tank feed O ring (913005) forms a water tight seal between the tank and the machine and requires replacing if found to be cracked or damaged.

Solution Tank filter



Located in the bottom of the tank you will find a one way filter, this can become clogged with residue and should be cleaned on a frequent basis.

Cleaning Spray Lance



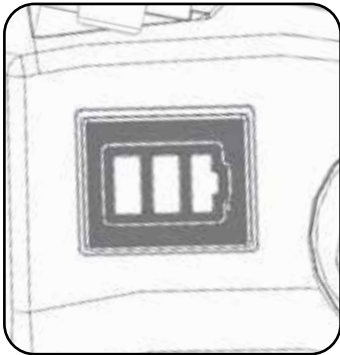
Undo the nuts 1 & 2, remove the spray nozzle 3 and clean thoroughly then reassemble.

Note: If there is constant dripping when spraying tighten both spray nozzle nuts.

Replacement parts

Chemical	
912797	6 x 250ml bottles of Numatic replenishment chemical
912799	6 x 1L bottles of Numatic replenishment chemical
Spares and Accessories	
912984	Lance Kit (with fittings and nozzle)
912985	Pack of Nozzles
913005	Male Tank Feed O-Ring
Battery	
909996	37 V Battery
Fast charger	
911334	Fast battery charger dock (UK)
912365	Mains charge lead (UK)

Charging your battery

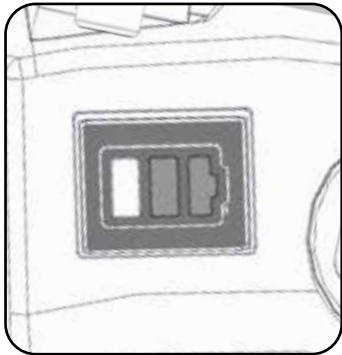


Operating time

*360 mins



*1hr to 80% charge – fast charger
*2hrs to 100% charge – fast charger



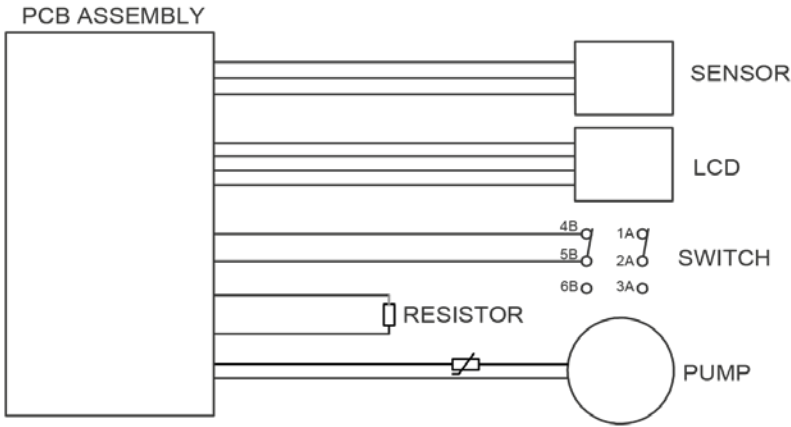
*Run and Recharge times may vary dependent on ambient temperature.

For information relating to the operation and charging of your battery please refer to the battery and charger original operating instructions.

Machine data

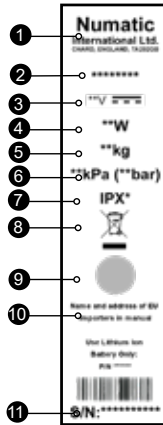
Model	Hand / Arm Vibration		Weight (Ready to work)	Sound pressure (LpA) Uncertainty (KpA)	Protection class	Dimensions
RSU150 NX	ah $\leq 2,5 \text{ m/s}^2$		13 kg	72 dB (A) 0.5dB	Class III	330mm x 330mm x 570mm
	Fluid Container	Flow Rate	Rated Power	Pressure Rating	Machine Weight	IP Rating
	5 L Max	140ml/min	45W	15bar	8 kg	IPX4

Schematic diagram



Trouble shooting / Maintenance

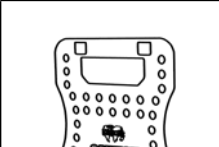
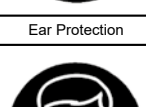
1	Company Name & Address
2	Model
3	Voltage / Direct Current
4	Rated Input power
5	Weight
6	MAX Pressure
7	Ingress Protection Rating
8	WEEE Logo
9	Approval Mark
10	Use Lithium-Ion Battery Only
11	Machine yr/wk Serial Number



- Poor flow: check filter in the bottom of the solution tank and clean if dirty.
- Check the filter inside of the lance and clean if dirty.
- Poor spray pattern: check nozzle face for contamination, clean with a wire brush if dirty.
- Constant dripping whilst spraying: check nozzle face for contamination, clean with a wire brush if dirty.

- Clean solution tank filter.
- Clean nozzle filter.
- Clean nozzle face.
- Check for any worn or damaged parts and replace immediately.



				
Ear Protection	Safety Footwear	Head Protection	Safety Gloves	
				
Dust / Allergens Protection	Eye Protection	Protective Clothing	Hi-Vis Jacket	Caution Wet Floor Sign

Failure to rectify the problem or in the event of a breakdown contact your Numatic dealer or the Numatic Technical helpline +44 (0)1460 269268

Information for Sanitising machines



ORIGINAL INSTRUCTIONS:- READ MANUAL BEFORE USE.



WARNING

Read the instruction manual before using the machine.

Operators shall be adequately instructed on the use of their machine.

As with all electrical equipment, care and attention must be exercised at all times during use, in addition to ensuring that routine and preventative maintenance is carried out periodically to ensure safe operation.

Failure to carry out maintenance as necessary, including the replacement of parts to the correct standard could render this equipment unsafe and the manufacturer can accept no responsibility in this respect.

You must remove the battery from the machine **BEFORE** cleaning or maintenance and when replacing parts or converting the machine to another function.

Maintenance should only be carried out by a qualified person.

Liquid ejected from the machine could be hazardous as a result of its temperature, pressure or chemical content.

This machine is not to be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience or knowledge.

This appliance is intended to be cleaned and maintained by an adult.

Children being supervised are not to play with the machine.

This machine is not a toy.

Never spray into or towards face.



CAUTION

This machine should be stored indoors only.

This machine is intended for indoor use only.

Release pressure in hose/lance by switching off the machine and activating the lance, before disconnecting any pipe connections.

The initial priming of the machine can take 1 to 2 minutes. Once the machine is primed, subsequent refilling of the solution tank will not require further priming of the machine.

NOTE:

The primary use for this machine is commercial, for example in hotels, schools, hospitals, factories, shops and offices.

This product complies with the requirements of clause 20 of IEC/EN 60335-2-68 Stability and Mechanical Hazards.

When moving from one place to another, consider the weight of the machine. The weight can be reduced by either emptying or removing the solution tank.

Misuse during operation:

- Always secure the RSU150 NX solution tank via the two toggles located on the side of the machine before moving.
- Never tip the machine over with fluid still in the fluid container.
- Only Numatic approved hoses, lance and nozzles to be used.



DO

- Charge the battery fully after use.
- Keep your machine clean including hoses and tubes.
- Keep filters clean.
- Replace any worn or damaged parts immediately.



DON'T

- Use steam cleaners or pressure washers to clean the machine or use in the rain.
- Immerse in water for cleaning.
- Attempt machine maintenance or cleaning unless battery has been removed from the machine.

Error Indications

Each indication is repeated three times, with a 1s pause between repetitions.

Following this the device will shut down*.

Indication	Error	Action
LED on, pump stops, poor spray pattern	Over pressure	Check nozzle for blockage
3 pulses LED & pump	Prime Failed	Check nozzle for blockage, cycle power to machine
3 pulses LED & pump	Tank Empty Tank Filter Clogged	Fill tank with fluid, cycle power Clean Tank filter
8 Pulses LED Only	Internal wiring or connection issues	Cycle power, if problem persists, return machine to distributor
2 Pulse LED only	Battery Under Voltage	Remove and charge battery
3 Pulses LED only	Battery Over Temperature	Remove battery and let cool
4 Pulses LED only	Battery Over Current	Remove and charge battery, if problem persists, return machine to distributor
5 Pulses LED only	Battery Authentication Failure	Remove and charge battery, if problem persists, return machine to distributor
6 Pulses LED only	PCB Over Temperature	Turn off and let machine cool.
9 Pulses LED Only	Pressure Sensor Failure	Cycle power, if problem persists, return machine to distributor

*with the exception of Battery Under Voltage. In this case the indication will repeat indefinitely.

Lithium-Ion Battery Warranty

Warranty: Commercial Use

- a. Batteries are warranted (1 Year) providing all battery care rules are followed
- b. To claim warranty the following details must be supplied
 - i. Serial number of the machine
 - ii. Battery date code
 - iii. Date purchased
 - iv. Proof of Purchase
 - v. Maintenance history and charging regime

Failure to use the correct Numatic charger will void your warranty.

Numatic International Warranty

Numatic International Limited warrant to the original purchaser that its products are free of defects in both material or workmanship for the period shown below:-

Homecare and Cleancare Vacuum cleaners.....	2 Years
Rotary Floor Machines.....	2 Years
Twintec Auto Scrubber Dryer.....	1 Year
Vario Ride-On Scrubber Dryer.....	1 Year / 1500 hours
Mopping, Compacts, Combi and Servocare Products.....	1 Year
Individual Accessories and Spare Parts.....	6 Months

Note: This warranty expressly excludes consumable parts such as carbon brushes, floor brushes, mops, batteries etc, that are considered replaceable from time to time during the normal working life of the machine.

Using non Numatic dustbags can be detrimental to both machine performance and life and may invalidate the Warranty.

- A. The warranty period commences from the date the goods are purchased.
- B. All warranty claims must be processed through the Dealer from whom the equipment was purchased. The Dealer will co-operate with the purchaser throughout the warranty claims procedure and will arrange any necessary repairs using genuine Numatic parts.
- C. If the original Dealer is no longer able to fulfil his obligations please contact Numatic International Limited with full details of the claim and proof of purchase so that this may be processed without delay.
- D. Any warranty claim can only relate to the specific part that is proven to be at fault and for which a replacement will be supplied but cannot be extended to constitute a claim against the complete machine.
- E. Numatic International will supply the Dealer with any warranty parts required, subject to the claim being validated, after return of the faulty items in accordance with Numatic International Limited's General Conditions of Sale.
- F. Claims will not be accepted if they are the result of fair wear and tear, misuse or abuse of any kind.
- G. No replacement will be given unless the appropriate evidence of the validity of the claim has been provided to the satisfaction of Numatic International Limited.
- H. Numatic International Limited reserve the right to charge for any unnecessary work carried out as a result of an invalid claim.
- I. No variation to this warranty may be made or implied by any member of Numatic International Limited or its Dealers unless such variation is in writing and authorised by the Company

Numatic

Numatic International Limited. Chard, Somerset, TA20 2GB

Telephone: 01460 68600 Fax: 01460 68458

© Numatic International Limited

UKCA Declaration of Conformity	
Manufacturer:	Numatic International Limited Chard Somerset TA20 2GB www.numatic.co.uk
Product:	RSU
Description:	Battery Powered Sprayer/Sanitiser - Commercial
We, Numatic hereby declare under our sole responsibility, that the above-mentioned product(s) is/are in conformity with the following directives and standards.	

[illegible]

Authorised Signatory: Mr. Matthew Coles

Position: Head of Technology

Signed: *M. C. C.* Date: 1st Dec 2021

Numatic International Limited,
Chard,
Somerset. TA20 2GB. UK

Authorised Signatory: Mr. Matthew Coles

Position: Head of Technology

Numatic International Limited

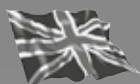
chard.

Somerset. TA20 2GB. UK

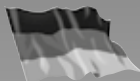
Signed: *U. C. L.* Date: 1st Dec 2021

DEC-086 V2.0

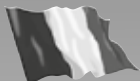
DEC-086 V3.0



Numatic International Limited.
Chard, Somerset TA20 2GB ENGLAND
Tel: 01460 68600 www.numatic.co.uk



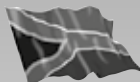
Numatic International GmbH. Fränkische Straße 15–19
D-30455 Hannover, DEUTSCHLAND
Tel: 05 11 98 42 16 0 www.numatic.de



Numatic International SAS. 13 / 17 rue du Valengelier
EAE La Tuilerie – 77500 CHELLES, FRANCE
Tel: 01 64 72 61 61 www.numatic.fr



Numatic International BV
Vennootsweg 15, 2404 CG, Alphen aan den Rijn, NEDERLAND
Tel: 0172 467 999 www.numatic.nl



Numatic International (Pty.) Ltd.
16th & Pharmaceutical Roads, Midrand, Gauteng,
SOUTH AFRICA 1685
Tel: 0861 686 284 www.numatic.co.za



Numatic International Schweiz AG.
Sihlbruggstrasse 3A, 6340 Baar. SCHWEIZ
Tel: 0041 (0) 41 76 80 76 - 0 www.numatic.ch



Numatic International ULDA. Rua da Boa Viagem, 177
4470.210 Maia. PORTUGAL
Tel: +351 220 047 700 www.numatic.pt



Numatic International SLU. C/ La Forja, 41, 08840 Viladecans
(Barcelona), Spain
Tel: +34 93 647 22 22 www.numatic.es

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