



Solo Rescue[®] User Manual

Solo Rescue serial # 340074-

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1 CE Declaration of Conformity

Manufacturer:
GRANULDISK AB
Jägershillgatan 13
SE-213 75 Malmö, SWEDEN

declares that the following machinery:

Heavy duty cleaning machine Solo Rescue®.

Solo Rescue® is a heavy duty cleaning machine for rescue services intended for the heavy duty cleaning of self-contained breathing apparatus, helmets, face masks, boots and gloves.

Basic conception

- a. the equipment, to which the CE marking has been affixed, complies with Machinery Directive 2006/42/EU;
- b. is besides the provisions under a) manufactured according to the following directives: Low Voltage Directive (LVD) 2014/35/EU and EMC Directive 2014/30/EU;
- c. is manufactured in conformity with the following harmonised standards: EN 60204-1:2006, EN 55014-1, EN 60335-2-58, EN 61439-1, EN 55032, EN ISO 13850:2015, EN ISO 13857:2008, EN 61000-6-3 and EN 61000-6-2
- d. is manufactured in accordance with EN 1717 and fitted with a type AB back flow protection device with air gap in accordance with EN 13077:2018.

Malmö, Sweden, 11 June 2019

Signed on behalf of
GRANULDISK AB



Mikael SAMUELSSON
CEO

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2 General Description and Safety

2.1 To the user

Solo Rescue® is a heavy duty cleaning machine for rescue services that is intended for the heavy duty cleaning of self-contained breathing apparatus (SCBA), helmets, boots and gloves.

This instruction manual is your guide to the correct use of the Solo Rescue® heavy duty cleaning machine.

RESCUE Intellitech recommends that you study the manual thoroughly to be sure that the machine is used correctly and safely.

Ensure that the manual is always available throughout the service life of the machine.

RESCUE Intellitech disclaims liability for any personal injury, property, or other damages of any nature whatsoever resulting from the use of the Solo Rescue that does not correspond with this user manual or the washing instructions of each individual PPE manufacturer.

2.2 Safety regulations

The machine uses hot water. Avoid bodily contact with the machine's water due to the risk of burn injuries!

Do not open the door during a wash cycle, due to risk of scalding!

For safe handling of detergent, refer to the detergent manufacturers' directions.

Do not sit or stand on the machine's door when it is lowered.

2.3 Limited Warranty

RESCUE Intellitech warrants and represents that all of its products are free of defects in materials or workmanship for a period of twelve (12) months from the date of delivery, subject to normal wear and tear and provided that the relevant Solo Rescue® machine has been used in accordance with the instructions, manuals and guidelines provided by RESCUE Intellitech (as amended from time to time).

In the event that a Solo Rescue® machine delivered by RESCUE Intellitech would not meet the requirements under said limited warranty (that is, there would be a defect in materials or workmanship as shown within a period of twelve months from the date of delivery), RESCUE Intellitech shall at its own cost and expense either (i) redeliver the relevant Solo Rescue® machine (upon receipt of the defective product from the dealer and confirmation of the defect) or (ii) remedy the relevant defect. RESCUE Intellitech shall, at its own discretion, choose either one of remedy (i) or (ii).

Except for the limited warranty expressly stated above, neither RESCUE Intellitech nor any of its representatives or affiliates make any express or implied representation or warranty or condition with respect to any Solo Rescue® machine or any other products delivered. RESCUE Intellitech disclaims any and all other representations, warranties and conditions in any form whatsoever, whether express or implied, including without limitation, the implied warranties of merchantability, title and/or fitness for a particular purpose.

The express limited warranty above is ONLY valid if the Solo Rescue® machine is installed by an authorized representative of RESCUE Intellitech. If a Solo Rescue® would be installed, repaired or otherwise modified by someone other than an authorized representative of RESCUE Intellitech, the limited warranty shall immediately lapse.

2.4 Limitation of Liability

In no event shall RESCUE Intellitech, or any of its representatives or affiliates, whether in contract, tort or otherwise, be responsible or liable for any consequential, indirect, incidental, special, exemplary, or punitive damages arising out of or in connection with the delivery of any Solo Rescue® products, or the use thereof, regardless of (a) whether such damages were foreseeable, or (b) whether or not RESCUE Intellitech was advised of the possibility of such damages.

Except for obligations to make payment under this agreement, each party's aggregate liability arising out of or related to this agreement, whether arising out of or related to breach of contract, tort (including negligence) or otherwise, shall not exceed the total amount paid under this agreement during the 12-month period preceding the event giving rise to the claim.

The limitations of liability set out herein shall not apply with respect to damages arising out of grossly negligent acts or omissions or willful misconduct or misuse.

2.5 Always Follow Each PPE Manufacturer's Washing Instructions

Users are obliged to diligently follow the wash, care and maintenance instructions from each individual PPE manufacturer when using the Solo Rescue® machine. RESCUE Intellitech has no control over the production and quality of any PPE, and therefore neither RESCUE Intellitech nor any of its representatives or affiliates make any express or implied representation or warranty with respect to PPE products washed in a Solo Rescue® machine (including but not limited to how they should be washed, or whether they should be washed using a Solo Rescue® machine at all.).

If the PPE manufacturer has not provided any specific machine-washing instructions for a particular piece of PPE, each Solo Rescue® user must contact the PPE manufacturer before using the Solo Rescue® machine to wash such PPE, in order to receive relevant information and instructions.

RESCUE Intellitech disclaims any and all liability for any damages or injury to persons, property or otherwise resulting from (i) inaccurate or insufficient instructions by a PPE manufacturer with respect to the use of the Solo Rescue®, (ii) use of the Solo Rescue® in a way that does not correspond with the washing instructions of the relevant PPE manufacturer, or (iii) where no such instructions exist, use of the Solo Rescue® without the user contacting the PPE manufacturer to receive such instructions or information.

2.6 Using Disinfectants in the Solo Rescue®

RESCUE Intellitech disclaims any and all responsibility and liability for the use of disinfectants, the final disinfection result or any damages or injury to persons, property or otherwise resulting from (i) inaccurate or insufficient instructions by a PPE manufacturer with respect to the use of the Solo Rescue®, (ii) use of the Solo Rescue® in a way that does not correspond with the washing instructions of the relevant PPE manufacturer, or (iii) where no such instructions exist, use of the Solo Rescue® without the user contacting the PPE manufacturer to receive such instructions or information. Disinfectants are the responsibility of each disinfectant manufacturer and RESCUE Intellitech thus refers to each individual PPE manufacturer and their washing instructions for any issues or queries related to disinfectants.

3 Technical data

External dimensions H x W x D	1744 x 1025 x 957 mm
External dimensions open machine H x W x D	2084 x 1025 x 1316 mm
Weight (empty machine)	238 kg
Load volume	250 liter = Ø 700 mm x H 675 mm
Wash tank volume	108 liters
Rinse tank volume	6 liters
Wash temperature (depending on application)	30–60°C (Always follow your PPE manufacturers' temperature recommendations. Desired temperature is set at installation)
Rinse temperature (depending on application)	30–60°C (Always follow your PPE manufacturers' temperature recommendations. Desired temperature is set at installation)
Capacity	Basket for 2 x SCBA incl. masks or equivalent
Cleaning programs	SCBA, masks and helmets: 5–30 min (Desired length is set at installation), gloves and boots: 3 min
Power supply	2 m power cord without plug
Voltage*	3-phase 400/415V
Fuse*	32 A
Frequency	50Hz
Maximum power	16.5 kW
Heavy duty wash pump	2.2 kW
Rinse pump	0.11 kW
Wash tank heating element**	14 kW
Rinse tank heating element**	14 kW
Encapsulation class	IPX5
Water supply	G3/4" (BSPP) male connection. Cold or hot water, max 40°C. Do not exceed desired wash temperature, always follow your PPE manufactures' temperature recommendations. Cold water connection may prolong startup time.
Water hardness	3–10°dH (For best cleaning performance 3–7°dH is recommended). Important note! Reverse osmosis water and completely softened water must not be used. Remarque importante: L'eau traitée par osmose inverse et l'eau complètement adoucie ne doivent pas être utilisées.
Pressure, incoming water	1–6 bar, 15 liter/min
Outflow	Pipe Ø 32 mm in OD
Drain	Recommended capacity 50 liter/min. The machine should not be placed directly over the drain.



Manufactured in Sweden according to ISO 9001 and ISO 14001

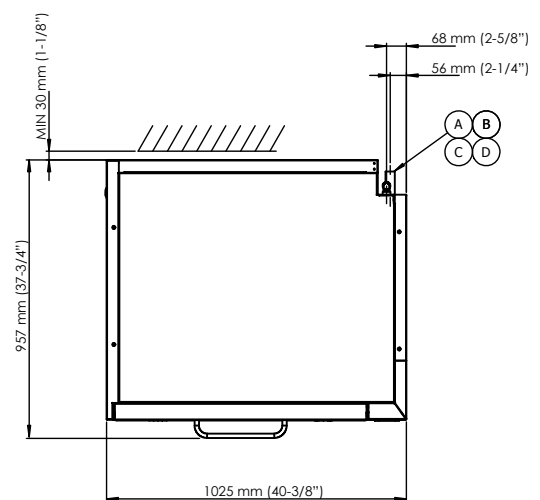
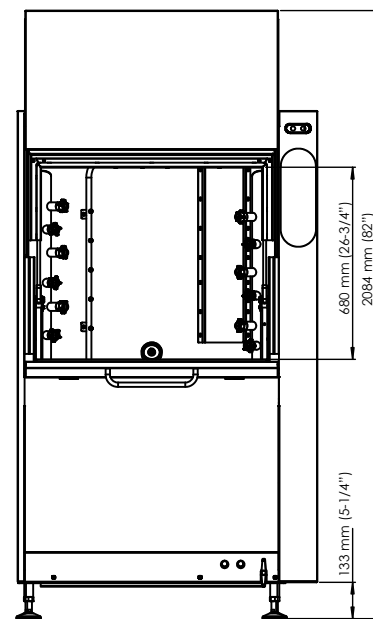
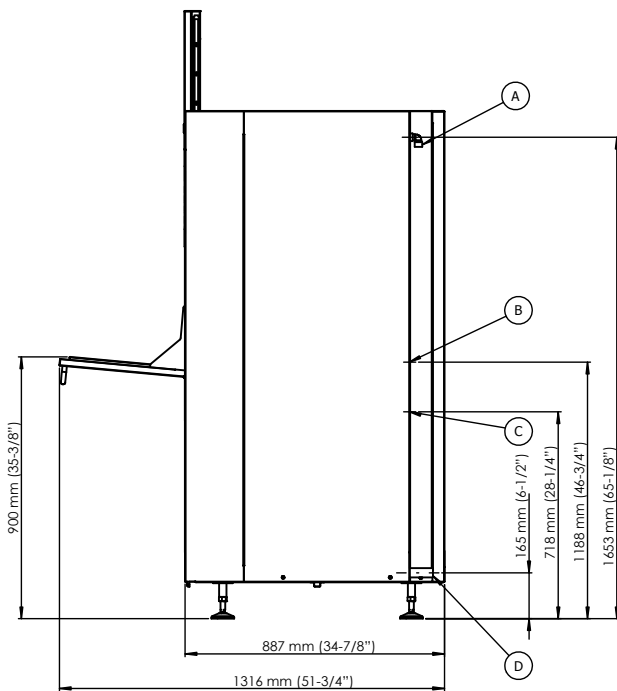
* For specific data regarding a particular machine, please see the machine's rating plate.

** Not in use simultaneously.

3.1 Installation drawing

A. Water connection: 3–10 °dH, 15 l/min **B.** Detergent connection **C.** Electrical connection: 32 A
D. Drain: Ø 32 mm. Recommended capacity 50 liter/min.

Important Note: All dimensions from floor +/- 2,5 cm due to adjustable feet.



4 Operation

4.1 When the working day begins

1. Put the Tank Grid in place (see figure 1 Tank Grid).

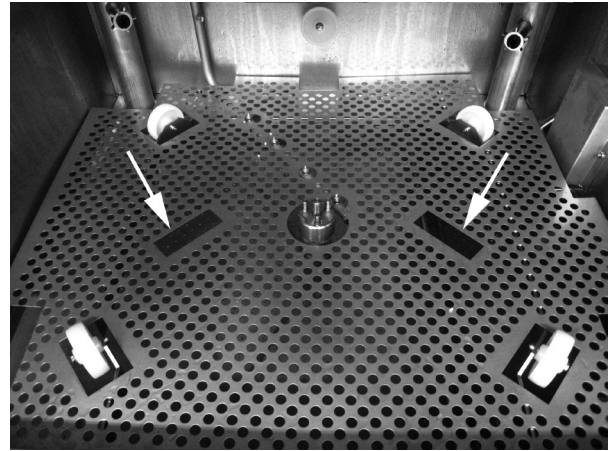


Figure 1: Tank Grid

2. Put the basket wheel in place (see Figure 2 Basket wheel).
Make sure it has fallen into place on the 4 support wheels.

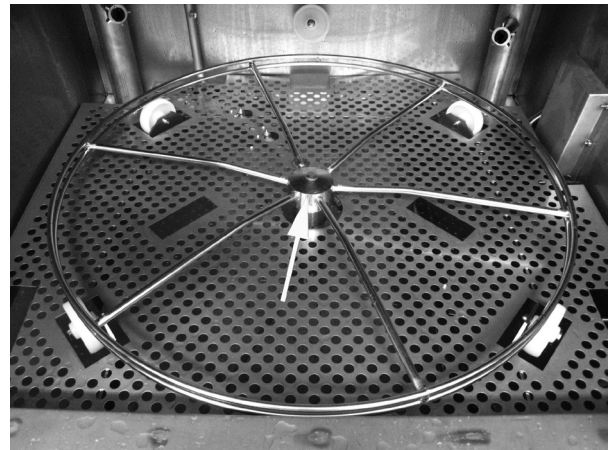


Figure 2: Basket wheel

3. Close the drain valve on the right side of the machine (see Figure 3 Drain Valve).
4. Turn on the main power switch.

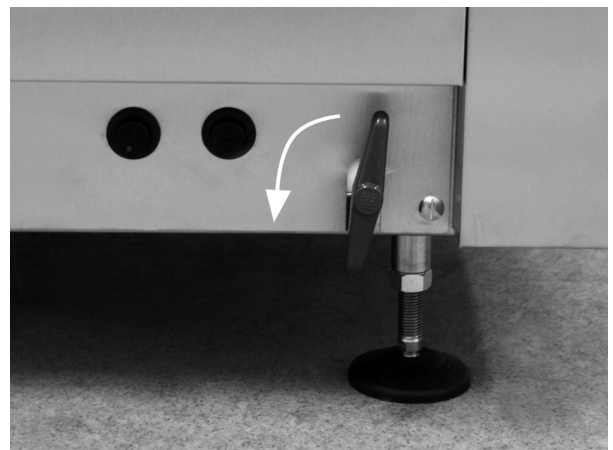


Figure 3: Drain Valve

4.2 Filling with water

1. Close the door.
2. Press the function (1) button twice
3. The machine fills with water and heats it to the right temperature. The LEDs on buttons (3) and (4) flash while the machine fills. The water temperature flashes during heating.
4. For machines with a hot water supply, filling and heating takes about 20 minutes depending on the water pressure and temperature.

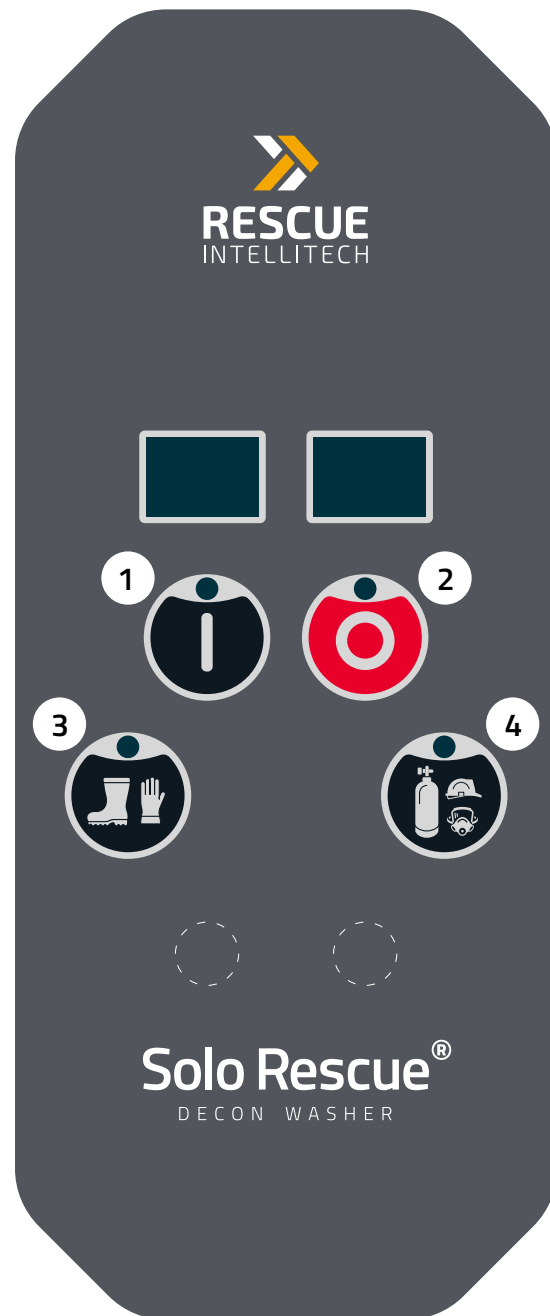


Figure 4: Control panel

4 Operation

- Once the correct temperature has been reached in the wash tank. The green indicator lamp will come on indicating that the machine is ready to use.



NOTE **Indicator lamps**

RED LAMP: indicates that the machine is running, heating or filling. Do not open the door!

GREEN LAMP: indicates that the machine is ready.



REMARQUE **Indicateurs lumineux**

VOYANT ROUGE: indique que la machine est en marche, en cours de chauffage ou de remplissage. Il ne faut pas ouvrir la porte!

VOYANT VERT: indique que la machine est prête.



Figure 5: Indicator lamps

4.3 Filling the heavy duty cleaning basket

It is important that the items sit firmly in the basket during heavy duty cleaning. Remove any loose debris such as wood splinters, stones and the like.

4.4 Loading and unloading the basket

Pull the basket halfway out of the machine so that it is partly supported by the door.

Once the basket is full, slide it into place in the machine. The basket wheel is designed so that you can feel when the basket is correctly positioned.

Check that no items are protruding from the sides of the basket or down through the bottom. The basket's rotation must not be impeded. See illustration Figure 6 Loading items.



Figure 6: Loading items

4.5 Basket lift

Thanks to the built-in basket lift, the basket easily slides out onto the door for loading and unloading.

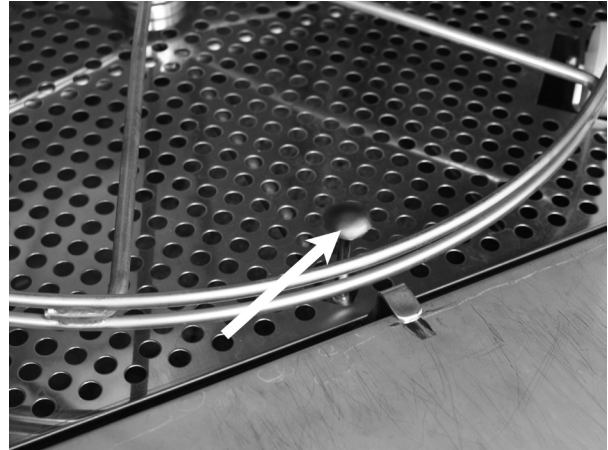


Figure 7: Basket lift

4.6 Basket (22720)

Basket with SCBA holder for both double and single cylinders.

Capacity: 2 x SCBA with masks per basket.

Up to 14 SCBA per hour.



Figure 8: Basket with holder for double or single cylinders

4.7 SCBA holder for jumbo cylinders (22541)

Basket together with holder (art. no. 22541) for jumbo cylinders.

Capacity: 2 x SCBA with masks per basket.

Up to 14 SCBA per hour.

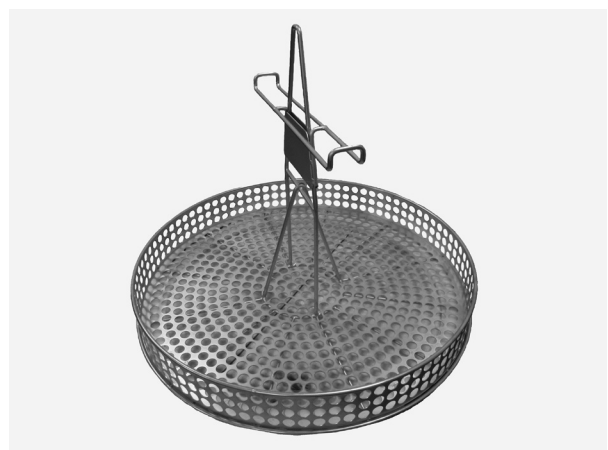


Figure 9: Basket with holder for jumbo cylinders

4.8 Gear holder for gloves, face masks and boots (22361)

This gear holder allows you to wash several face masks, boots or gloves at once, or a mix it up to suits your specific needs.

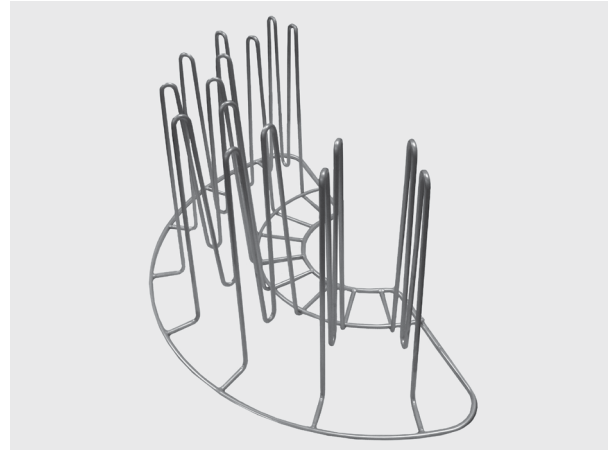


Figure 10: Gear holder for gloves, face masks and boots



Figure 11: Basket with Gear Holder for gloves, face masks and boots.

4.9 Gear holder for helmets (26230)

With the gear holder for helmets you can wash up to three helmets at a time or up to 21 per hour.



Figure 12: Gear Holder for helmets.

4.10 Control panel

1. The Function button (1) is used to activate the filling/heating of the machine's water tank.
2. The Stop button is used to reset any alarms.

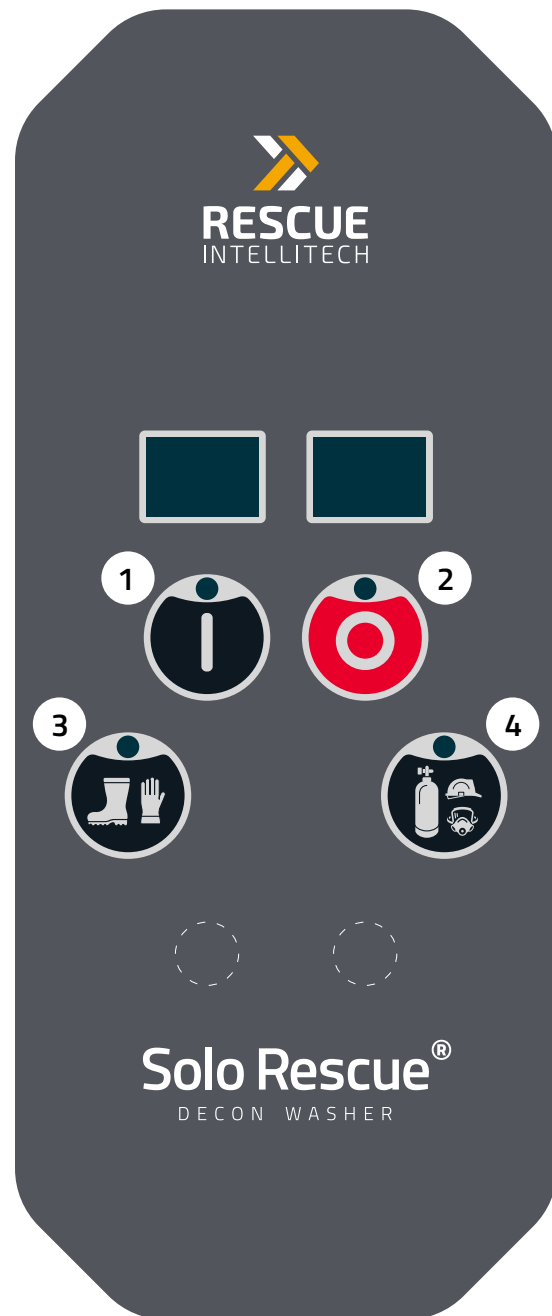
It is also used to put the machine in standby mode. After 30 seconds, the display turns off and the machine enters standby mode. The Stop button's red LED remains lit to indicate standby mode, but all machine functions/activities stop.

Press the function button twice to bring the machine out of standby mode and begin heating of wash tank.

Important Note: We recommend that the machine be put in standby mode if it does not need cleaning at the end of the day. The main power can be left on for easy startup the next day. The main power should only be turned off when doing the weekly cleaning or during service.

In STOP mode the wash and rinse tanks are not heated.

3. Short program for gloves and boots.
4. Long program for SCBA, helmets and face masks.



4.11 Start and use

1. Press the function button twice to start filling and heating of the wash tank.
 - Once the wash tank reaches the correct temperature the Green indicator light will come on indicating the machine is ready to be loaded and a wash cycle selected.
 - Cleaning at a too low temperature increases the risk of foam forming inside the machine.
2. Select a cleaning program by pressing (3) or (4).
3. Once the machine is done cleaning “END” appears on the LED display and the green indicator light comes on.
4. “End” disappears from the display once the door is opened for unloading. The button for the last program chosen will remain lit until the next program is selected.
5. Masks should be rinsed inside and out under running water to ensure there is no detergent residue left in them before being sanitized by hand for re use.
6. Keep the door closed unless you plan to use the machine again immediately. This saves energy and reduces any condensation.

Stopping the machine during operation

In an emergency, press the stop button (2).



NOTE

If the machine is stopped in the middle of a program, items may have detergent residue on them. Run a complete wash program before the items are unloaded or the water is drained from the machine.

WARNING

Do not open the door during a cleaning program (red light on) due to risk of scalding!



Figure 13: During the wash cycle the red indicator light will be on. Do not open the door when the red light is on.



Figure 14: Once the program is complete, the green light is lit.



REMARQUE

Si la machine est arrêtée au milieu d'un programme, des résidus de détergent risquent de rester sur les articles. Démarrez un programme de lavage complet avant de décharger les articles ou de vider l'eau de la machine.

REMARQUE

Il ne faut pas ouvrir la porte pendant un programme de lavage (voyant rouge allumé) en raison du risque de brûlures!

4.12 Resetting the overheat protectors

You will need to reset the overheat protectors if error code 104 or 105 is shown on display.

1. Drain the water tank.
2. Clean the level sensor D with a clean cloth. See Figure 15.
3. Unscrew the black protective caps shown in Figure 16: Access to the overheat protectors.
4. Reset each overheat protector by inserting a small screwdriver in the hole and pressing the reset button. If either overheat protector has been tripped you will hear a click when it is reset.
5. If the error codes reappear within a few hours of operation, a service technician should inspect the machine.

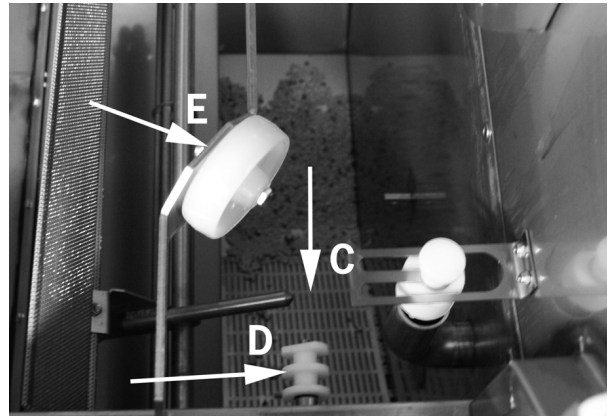


Figure 15: Level sensor, D



Figure 16: Access to the overheat protectors

5 Regular cleaning

5.1 Cleaning the inside of the machine

1. Press the STOP button (2) and open the drain valve to drain the tank (see Figure 17 drain valve).
2. Cut the power to the machine by turning off the main power switch.

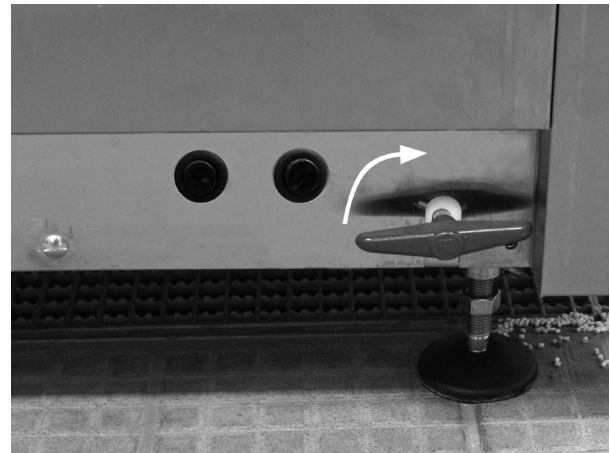


Figure 17: drain valve

3. Remove the basket then remove the basket wheel. (Figure 18 Basket wheel).

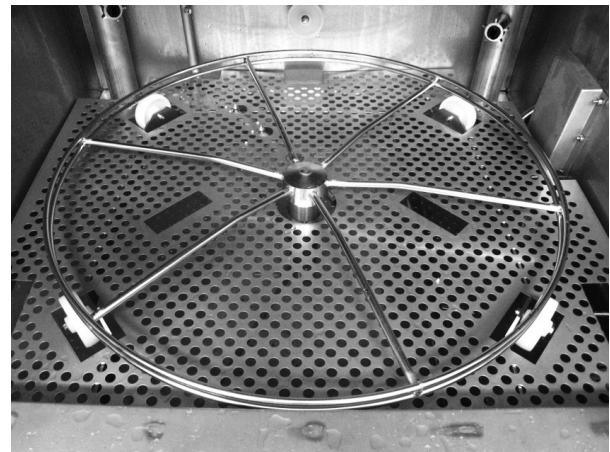


Figure 18: Basket wheel

4. Grip the handles of the tank grid and lift it out. See Figure 19 Tank Grid.
5. Clean and rinse the components with water.
6. Rinse out the inside of the wash tank. Only use water to clean inside the machine. Never use soap or detergent to clean because they can cause foaming inside the machine.

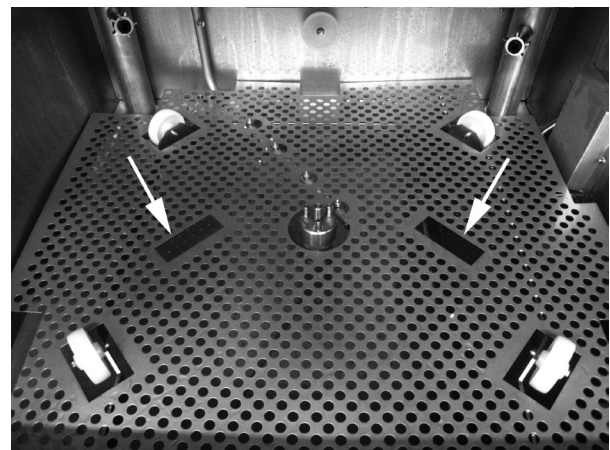


Figure 19: Tank Grid

7. Clean and rinse the drain sieve (C) in the bottom of the wash tank. It can be unscrewed to help with cleaning (see Figure 20: Clean the drain sieve and the level sensor)
8. Wipe the level sensor (D) (Figure 20 Clean the drain sieve and the level sensor).
9. Check that all 4 support wheels (E) for the basket wheel are turning smoothly.

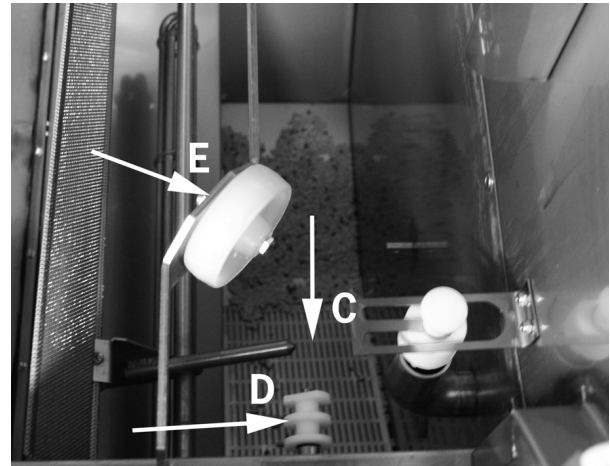


Figure 20: Clean the drain sieve and the level sensor

10. Check that the overflow pipe is functioning and clean if necessary. (see Figure 21 overflow drain cap)

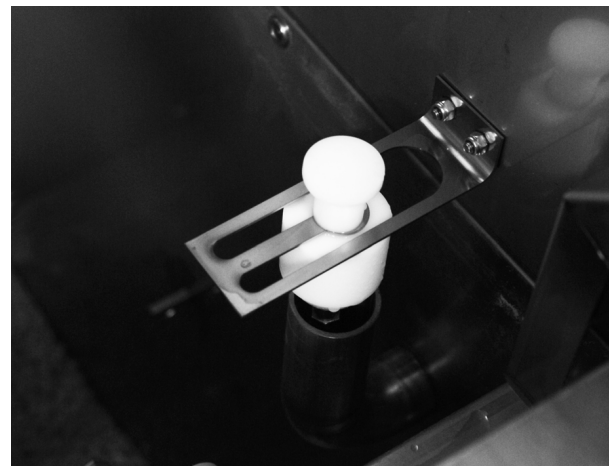


Figure 21: Overflow pipe

11. Rinse the lower part of the door (with the door fully open) and clean the rubber seal on the lower part of the door (see arrows Figure 22 Door seal). Wipe the upper part of the door with a damp cloth.

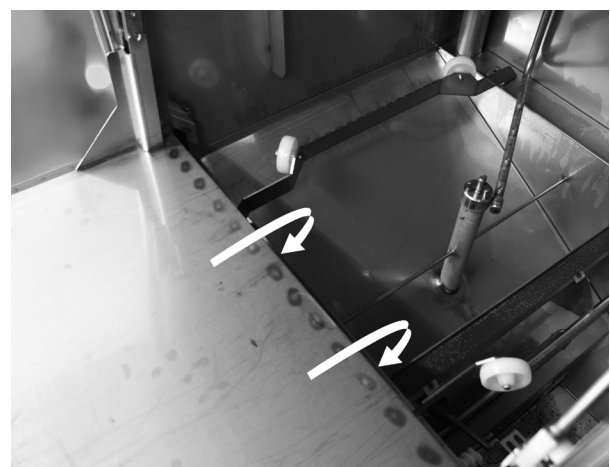


Figure 22: Door seal

5 Regular cleaning

12. Wipe the inside of the door with a damp cloth, Figure 23 The inside of the door.

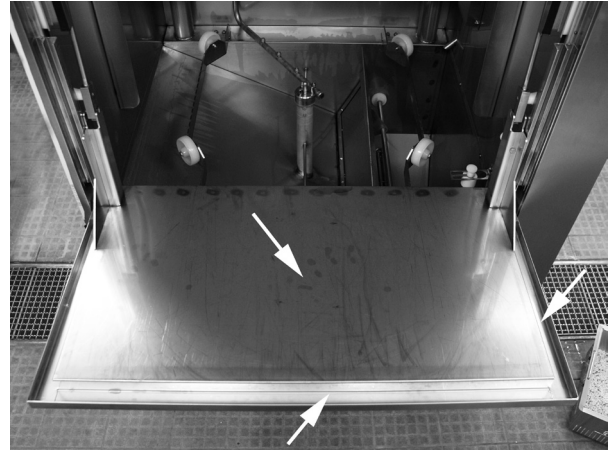


Figure 23: The inside of the door

13. Wipe the water trap around the door opening with a damp cloth, Figure 24 Water trap.



Figure 24: Water trap



NOTE

The outside of the machine must not be cleaned with a pressure washer.



REMARQUE

L'extérieur de la machine ne doit pas être nettoyé avec un nettoyeur à pression.

5.2 Re installing the cleaned components

- Re install the drain sieve if it was removed for cleaning.
- Re install the tank grid
- Re install the basket wheel

5.3 Preparations for storing the machine

- The main power switch must be turned OFF.
- Ensure that the water tank is completely drained and free from grime and debris.
- Any remaining water ought to be soaked up with a sponge or dish cloth.
- Leave the door open so that air can circulate in the machine.
- After a longer period of non-use, perform a function test in accordance with the service manual, with the aid of an authorized service technician if necessary.

6 Changing the water and service

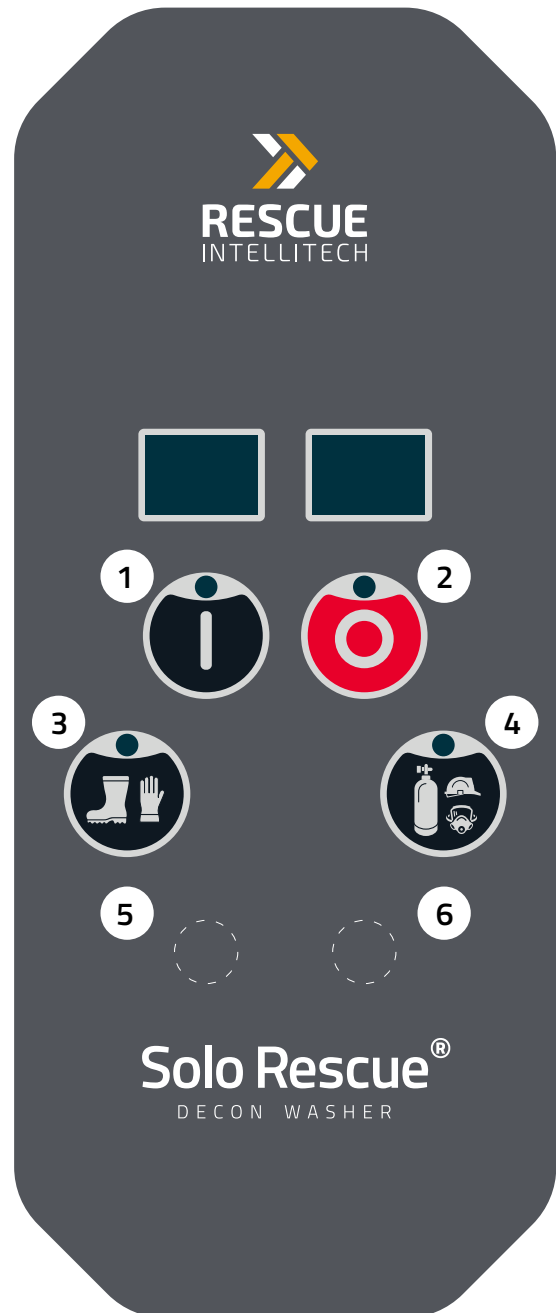
Solo Rescue® has an integrated function that informs the user when service is due. This helps users avoid downtime and maintain the lowest possible operating costs.

6.1 Changing the water

In order to ensure optimal cleaning results, the water in the machine ought to be drained after about every 10-15 cycles, and at least once a week. Once the machine is drained, it ought to be cleaned thoroughly in accordance with the instructions in chapter 5. Regular cleaning.

6.2 Annual service

The STOP button (2) flashes. This indicates the need for service. This indicator can only be reset by an authorized service technician once the machine has been serviced. The service indicator appears after 10,000 program cycles, or every 20 months.



7 Wash and rinse temperature, wash time and extra rinse cycles

7.1 Open "Menu mode"

To be able to check and adjust the current settings of your Solo Rescue® you will have to open "Menu mode" on the display on the front of the machine.

1. Press the red "STOP" button (#2) and then press button #4 (long program) five (5) times.
2. While in "menu mode", use button #3 or #4 to move through the various menu options. The first number in the display indicates the menu number.

7.2 Menu 8 – Adjusting the wash temperature*

The temperature can be set to a value between 30°–60°C and the interval can be changed with one (1) degree steps.

1. To adjust the wash temperature, press button #5.
2. To save the new setting, press the "START" button (#1).
3. To exit "menu mode", press the "STOP" button (#2).

7.3 Menu 9 – Adjusting the rinse temperature*

The temperature can be set to a value between 30°–60°C and the interval can be changed with one (1) degree steps.

1. To adjust the rinse temperature, press button #5.
2. To save the new setting, press the "START" button (#1).
3. To exit "menu mode", press the "STOP" button (#2).

7.4 Menu 0 – Adjusting the wash time for "Long Program"

The washing time can be set to a value between 5–30 minutes and the interval can be changed with one (1) minute steps.

1. To adjust the washing time, press button #5.
2. To save the new setting, press the "START" button (#1).
3. To exit "menu mode", press the "STOP" button (#2).

7.5 Menu 11 – Adding extra rinse cycles

Adjustable range: 1–4 rinse cycles. Dosage pump for rinse/disinfection/defoamer is always activated on first rinse only.

1. To adjust the number of rinse cycles, press button #5.
2. To save the new setting, press the "START" button (#1).
3. To exit "menu mode", press the "STOP" button (#2).

***Important!**

Always follow the temperature recommendations from your equipment manufacturer. Washing in the wrong temperature may cause damage to your equipment and may void all warranty.

8 Troubleshooting and alarms

A key to the error codes is presented below.

- Error codes 109, 118, 120, 132 are user-related and their explanations can be found in the instructions affixed to the wall.
- The program is automatically interrupted if an error code is encountered.
- After checking and rectifying the error, the machine is reset to operating mode by pressing the STOP button.

Error Code	Meaning	Cause	Remedy
001		Program interrupted by operator.	This error code only appears when reading the operating data in GDTdirect™.
103	The motor protection for the rinse pump has been triggered.	The rinse pump motor is overloaded, the program is interrupted.	Contact a service technician!
104	The overheat protector for the rinse tank has been triggered.	The rinse tank heating element is overheated, the program is interrupted.	Clean the level sensor. Reset the overheat protector. If the error recurs within a few hours, contact a service technician!
105	The overheat protector for the wash tank has been triggered.	The wash tank heating element is overheated, the program is interrupted.	Clean the level sensor. Reset the overheat protector. If the error recurs within a few hours, contact a service technician!
107	Temperature in the wash tank not reached	The water in the wash tank does not reach the pre-selected temperature during the cleaning process, the program is interrupted.	Reset the alarm with the STOP button. If the alarm recurs, contact a service technician
108	Temperature in the rinse tank not reached	The water in the rinse tank does not reach the pre-selected temperature during the cleaning process, the program is interrupted.	Reset the alarm with the STOP button. If the alarm recurs, contact a service technician
109	Door switch	An attempt to open the door has been made during operation.	Close the door. Reset the alarm with the STOP button.
110	Temperature sensor in the rinse tank is malfunctioning.	The temperature sensor in the rinse tank is faulty.	Contact a service technician!
111	Temperature sensor in the wash tank is malfunctioning.	The temperature sensor in the wash tank is faulty.	Contact a service technician!
112	The water level in the rinse tank is too low.	The level in the rinse tank has fallen erroneously.	Contact a service technician!
113	The water level in the wash tank is too low.	The level in the wash tank has fallen erroneously.	Contact a service technician!
114	Long fill time for the wash tank	Time to fill the wash tank has exceeded 20 minutes. The program is interrupted.	Check the water supply to the machine and the solenoid valve for filling the wash tank. Clean the rinse nozzles. Reset the alarm with the STOP button. Contact a service technician if the problem persists.

Error Code	Meaning	Cause	Remedy
115	Long fill time for rinse tank	Time to fill the rinse tank has exceeded 5 minutes.	Check the water supply to the machine and the solenoid valve for filling the rinse tank. Reset the alarm with the STOP button. Contact a service technician if the problem persists.
116	Low water level, foaming problem	Foam forming in the machine.	Be sure not to get any unauthorized detergents inside machine. Drain all the water and rinse inside of the cabinet and wash tank thoroughly before refilling with water. If the foaming problem continues contact the detergent supplier to check dosing. Reset with the STOP button.
117	Long rinse time	The lower level sensor in the rinse tank has not indicated that the right amount of water has been pumped out.	Contact a service technician!
118	The drain valve is not closed, close the drain valve!	The drain valve has been opened during an active process in the machine.	Close the drain valve and reset the alarm with the STOP button.
119	The motor protection for the wash pump has been triggered.	The wash pump motor is overloaded, the program is interrupted.	Contact a service technician!
120	The basket drive shaft has been blocked	Something is preventing the basket from moving, equipment protruding from the basket.	Carefully check that nothing has jammed between the basket and the basket wheel. Reset the alarm by pressing the STOP button
130	IO-board not tested after manufacture	Faulty IO-board.	Contact a service technician!
132	Clean the level sensor in the wash tank.	The level sensor is probably dirty or the tank was not completely drained after long shutdown period.	The level sensor in the wash tank is dirty, or the power was interrupted by the main switch with a partially full wash tank. If the water looks dirty, drain the machine. If the machine is not drained at the end of the day, let the main switch stay on and put the machine in standby mode by pressing the Stop button. All functions and activities will stop. Press the function button twice to reactivate the machine.
133	Short rinse time	The rinse water is pumped out too quickly, which results in insufficient rinsing.	Contact a service technician!
140	Erroneous signal from one of the temperature sensors	One of the temperature sensors may be malfunctioning.	Turn off the main power switch to the machine. Wait at least 30 seconds. Turn on the main power switch again. If the fault remains, repeat the procedure again. If the fault remains after repeating the procedure, contact a service technician.
143	ID error	Electrical error, identity outside range.	Check connections to ID resistors.
144	Wrong incoming voltage to IO circuit board.	Wrong incoming voltage to IO circuit board.	Continued operation can cause damage to the machine. Check voltage on supply. Check that the correct primary on the transformer is used.



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The Solo Rescue Decon Washer was developed to meet the needs for cleaning contaminated equipment in the best way possible. The goal was to develop a healthier way to decontaminate protective gear and help firefighters fight cancer. The unique Solo Rescue system features a rotating basket that enables the water jets to reach even the most inaccessible parts of the equipment. The entire cleaning process is carried out inside the machine, ensuring minimum exposure to hazardous toxins and carcinogens which leads to a safer work environment for you and your fellow firefighters.