

Degritter



User guide

DEGRITTER AUTOMATIC
RECORD CLEANING MACHINE

MARK II - ENG 3.4

Contents

00 Warning	5
01 Features	6
02 Cleaning Effect	8
03 Machine overview	12
04 Getting started	14
05 Turning on/off	16
06 Using the machine	18
07 Settings menu	24

08 Water, fluid, filter	28
09 Cleaning the machine	30
10 Installing software updates	32
11 Troubleshooting guide	34
12 Frequently Asked Questions	48
13 Limited warranty disclaimer	49
14 Customer support contacts	51



00 Warning

Degritter



READ BEFORE USE

- ! The machine must be electrically grounded. Failing to do so can result in serious electric shock or death.
- ! Do not stick metallic objects into the machine from any of its openings, e.g. the ventilation slots on the sides. Doing so may result in serious electric shock or death.
- ! The machine must be placed on a level surface before operating. Failing to do so may cause a spill and damage the machine.
- ! Do not cover the vertical ventilation slots on the sides of the machine. Free airflow is needed to guarantee the proper functioning of the machine.
- ! Do not operate the machine in a tight closed environment such as a cupboard or a closet.
- ! Only use purified water with no dissolved solids (we recommend distilled or deionized water). Limescale build up ruins the machine.
- ! Machine internals must be cleaned every 250 washing cycles (see section 09 Cleaning the machine).

FAILURE TO HEED THESE WARNINGS WILL VOID WARRANTY!

01 Features

ULTRASONIC CLEANING
ARCHITECTURE

CLEVER FEATURES

DESIGNED FOR YOU

ULTRASONIC CLEANING ARCHITECTURE

4 TRANSDUCER LAYOUT

Ultrasonic cleaning tank that's in Degritter is purpose built for vinyl records. The tank has two ultrasonic transducers on either side emitting 120 kHz ultrasonic vibrations, evenly distributing the cleaning energy across the record's surface.

POWER DRIVE™ 2.0

Pulse Mode

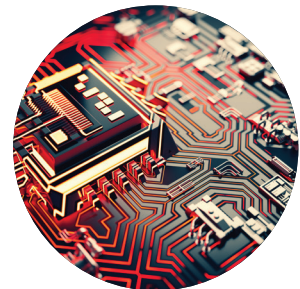
Pulse Mode cleaning is a feature offered by the Power Drive™ 2.0 ultrasonic generator. During pulsing, ultrasonic transducers rapidly switch on and off at high power. This gives enhanced cavitation in water, but keeps the average power consumption low.

Frequency Sweep

The driving frequency of the Power Drive™ ultrasonic generator sweeps between 120-125 kHz. This evens the cavitation energy distribution in the water, minimizing losses and giving an uniform cleaning action.

240 Watts

The average power output of all the washing programs is 240 W. This makes Degritter the most powerful ultrasonic record cleaner on the market per liter of water. The higher 120 kHz driving frequency keeps your records safe.



CLEVER FEATURES

ACTIVE FILTERING™

Cleaning water is pumped through a replaceable filter during washing. Continuous filtration keeps removed dirt from ending back up on the record.

RECORD SAFE TEMPERATURE CONTROL

Degritter monitors water temperature and prevents it from rising to levels harmful for vinyl records. High temperatures are managed by automatic cooling cycles.

SMART DRYING

Records are dried by a flow of filtered air. Both the drying time and fan speed can be adjusted to keep noise levels in check and to prevent static electricity build up.

POSTWASH RINSE OPTION

Degritter supports rinsing records during washing cycles with the help of a separate water tank.



DESIGNED FOR YOU

DISTINCTLY AUTOMATIC

The Degritter is fully automatic, requiring no additional effort after the cleaning cycle has started. Use the free time for listening to records instead of cleaning them.

SIMPLE WATER MANAGEMENT

The machine has a convenient removable water tank for replacing cleaning water.

PERFECT TOUCH BUTTONS

We have perfected the feel and function of the machine's buttons. The rotations and presses provide most satisfying feel you will be unable to let go of.

02 Cleaning Effect

ULTRASONIC CLEANING

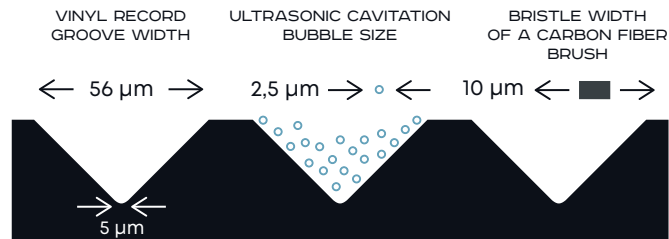
THE PRINCIPLE

CLEANING RECORDS

ULTRASONIC CLEANING

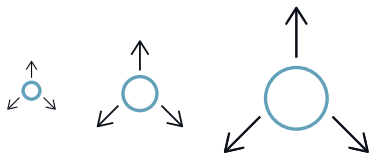
Ultrasonic cleaning has a unique ability to remove dirt that is not easily accessible by using other traditional means. Ultrasonic cleaners are used to clean many types of objects, including jewelry, optical parts, dental and surgical instruments and electronic equipment.

The smallest features in a vinyl record groove are the size of a few micrometers. Due to their minute size, it is difficult for the bristles of a typical vinyl cleaning brush to clean the entirety of the record groove.



THE PRINCIPLE

Ultrasonic cleaning works by agitating the cleaning liquid with high frequency acoustic pressure waves. This creates a large number of microscopic vacuum bubbles in the liquid, a phenomenon called cavitation. With every pressure wave, countless small vacuum bubbles are created and collapsed, releasing heat and water jets towards the record. This action will safely loosen and remove dirt and contaminants from the record.

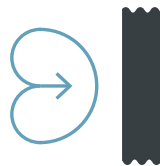


CAVITATIONAL BUBBLE
GROWING PHASE

CLEANING RECORDS

Ultrasonic cleaning as used in Degritter removes contaminants from records layer by layer. The cleaning is equally strong on the top of the groove and inside the groove.

However, when records are covered with a thick layer of gunk, it can take ultrasonic cleaning some time before the deepest layer of dirt is reached. We therefore recommend to first wipe heavy surface dirt



BUBBLE IMPLSION
WITH WATER JET

away with a microfibre cloth. This will speed up the cleaning process and will give better results faster.

! NOTE

Wiping the record with a microfiber cloth wet in record cleaning fluid or isopropyl alcohol will speed up the cleaning process when cleaning extremely dirty records.

03 Machine overview

CONTENTS OF THE PACKAGE

PHYSICAL AND ELECTRICAL SPECIFICATIONS

MACHINE FRONT & SIDE PANELS

MACHINE REAR PANEL

BUTTONS AND SCREEN

REMOVABLE WATER TANK

CONTENTS OF THE PACKAGE

- Degritter machine
- Removable water tank with lid
- AC power cable
- 100 ml machine care fluid
- 100 ml record cleaning fluid
- Fluid dosing pipette
- SD card for machine software
- Pack of replacement filters
- Microfiber cloth
- Replacement kit for water tank: a seal, spring and valve
- Replacement O-ring seal for filter cap
- Water level measurement strip

PHYSICAL AND ELECTRICAL SPECIFICATIONS

Weight	8.7 kg or 19.2 lb
Dimensions	37 × 28 × 21 cm or 14.6 × 11 × 8.3 in
Suggested ambient operating temperature	10 - 28 °C or 50 - 83 °F
Water tank capacity	1.3 L or 0.35 gal
Power input	AC 100-240 V, 4 A, 50/60 Hz
Power usage	~ 300 W at full power, ~2 W in sleep mode
Fuse	4 A, slow, 20 x 5 mm, DIN 41.660
Noise level	70 db
Ultrasonic cleaning frequency	120 kHz with fine-band frequency sweep

MACHINE FRONT & SIDE PANELS

The Degritter is controlled using the buttons on the front of the machine. Records are inserted into the slot on top of the machine. The water tank is accessible from the top of the machine. There are vertical ventilation openings on both side panels. The circular cap in the lower half of the right side panel is the access port to the water filter.



MACHINE REAR PANEL

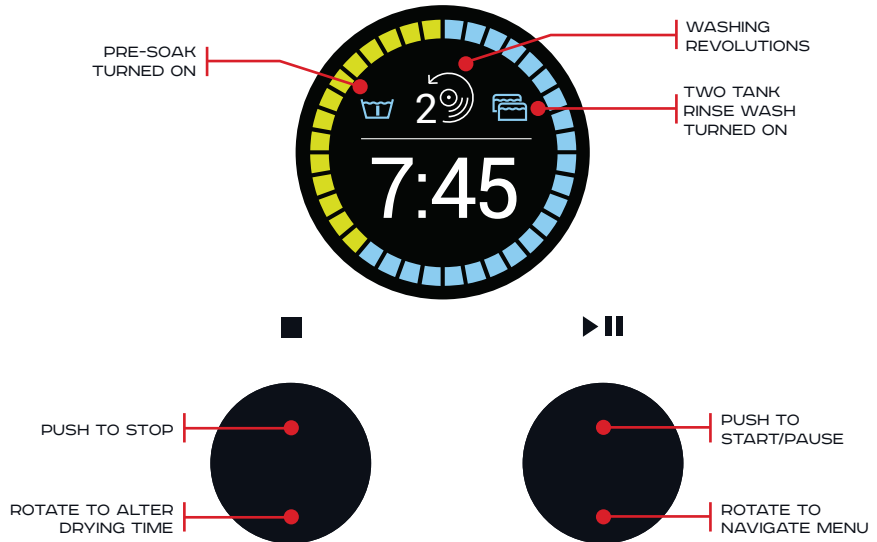
On the right side of the rear panel are the AC cable input and the AC on-off switch. The AC cable input socket contains the fuse drawer. The SD card input slot is on the left side.



03 Machine overview

BUTTONS AND SCREEN

All Degritter functionalities can be accessed using the two buttons and the screen. Push and rotate the buttons for different operations.



REMOVABLE WATER TANK

The removable water tank is located on the back of the machine. There is a marking Min on the outside of the water tank, indicating the necessary minimum water level. When filling the tank, it is recommended to fill the tank with as much water as one feels comfortable carrying. The more water in the removable tank, the better.

! **NOTE**

The tank is ethanol proof and can be washed in a dishwasher at max 60 °C or 140 °F. It is not recommended to wash the tank with dishware in a dishwasher.



04 Getting started

- 01 PLACE ON LEVEL SURFACE
- 02 TURN DEGRITTER ON
- 03 PUT WATER INTO THE TANK
- 04 INSERT THE RECORD INTO THE MACHINE
- 05 PRESS START

01 PLACE ON LEVEL SURFACE

Degritter must be placed on a level surface for it to function properly.

02 TURN DEGRITTER ON

Plug one end of the power cable into the machine and the other end into your wall outlet. Turn on the machine from the AC switch at the back.



03 PUT WATER INTO THE TANK

Fill the water tank with distilled water to a level exceeding the “Min” marking. The more water in the water tank, the better.



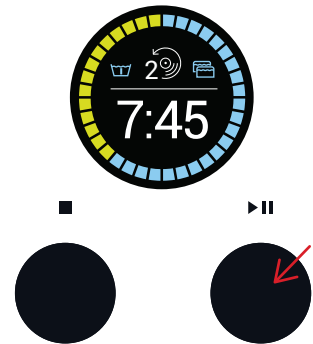
04 INSERT THE RECORD INTO THE MACHINE

Insert the 12" record into the machine as shown.



05 PRESS START

Start the washing program by pressing the button on the right. Washing progress is tracked by the countdown timer on the screen. You will be alerted with three beeps when the program finishes.



05 Turning on/off

AC ON-OFF SWITCH

POWERING ON

SOFT SHUTDOWN
AND STARTUP

TIMED SHUTDOWN

LONG TERM STORAGE

AC ON-OFF SWITCH

The black switch on the back panel turns off all power to the machine. This is the best option if you are not planning to use Degritter for a long time or for transportation.



POWERING ON

After turning the machine on from the AC switch you'll first see the Degritter logo on the screen. After this, the machine will prime its pumps.

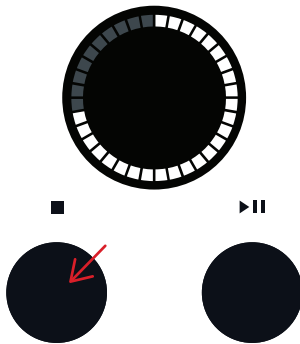
! NOTE

When the external tank is empty, a "No Water" warning will be displayed. Once the tank is filled, press any front panel button to resume.



SOFT SHUTDOWN AND STARTUP

For a soft shutdown, hold down the left button for 3 seconds. This is the recommended method for turning off Degritter. It cuts all power to the machine except for a small current to the processor and its power supply.



Press any button to start the machine again. You will be prompted with a welcoming screen.



TIMED SHUTDOWN

Degritter shuts down automatically when left idle for 15 minutes. Press any front panel button to start the machine up again.

LONG TERM STORAGE

When storing Degritter for a longer time period:

- Remove the water tank and pour away its contents;
- Insert the tank back into the machine;
- Turn Degritter off from the AC power switch;
- Remove the cord from the power socket;
- Unscrew and remove the water filter cap.
- Do not put any items on top of the rubber cover.

06 Using the machine

MENU NAVIGATION

RUNNING PROGRAMS

ADJUSTING DRYING TIME

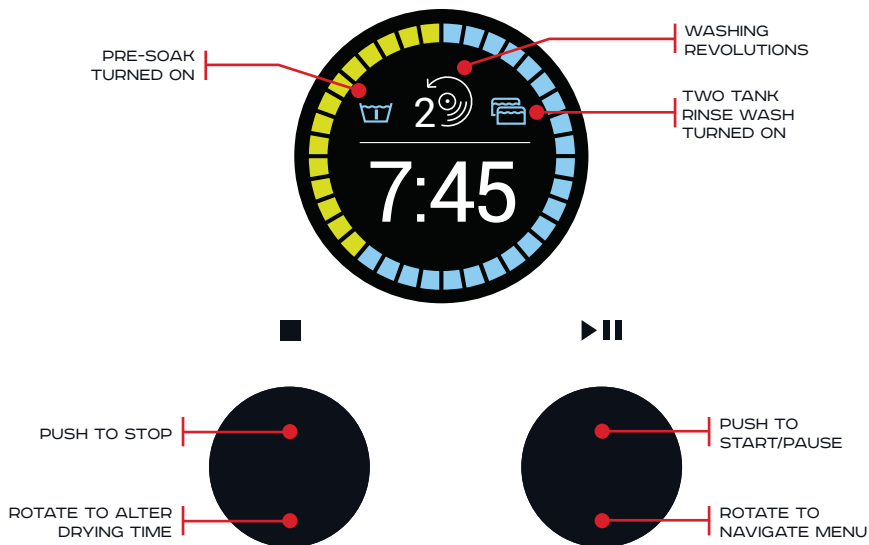
PRE-SOAK INDICATOR

WATER TEMPERATURE

COOLING WATER



MENU NAVIGATION

Turn the right button to move between menu items. Push the right button to activate the selected program.


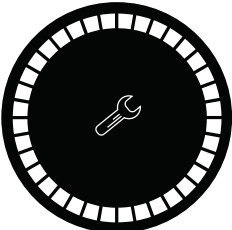


RUNNING PROGRAMS

Select the desired program by rotating the button on the right. To start the selected program, press the button on the right. To stop the program press the left button and pause the program by pressing the button on the right. You will be notified with three audible beeps when the program has finished.

PROGRAM	DESCRIPTION										
	<p>Washing programs with 1-4 record revolutions for washing and drying the record.</p> <table border="1" data-bbox="943 387 1377 568"> <thead> <tr> <th>REVOLUTIONS</th> <th>WASHING DURATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2 minutes 15 seconds*</td> </tr> <tr> <td>2</td> <td>3 minutes 45 seconds*</td> </tr> <tr> <td>3</td> <td>5 minutes 15 seconds*</td> </tr> <tr> <td>4</td> <td>6 minutes 45 seconds*</td> </tr> </tbody> </table> <p><i>* Listed durations are without the pre-soak and record rinse times from a second tank.</i></p>	REVOLUTIONS	WASHING DURATION	1	2 minutes 15 seconds*	2	3 minutes 45 seconds*	3	5 minutes 15 seconds*	4	6 minutes 45 seconds*
REVOLUTIONS	WASHING DURATION										
1	2 minutes 15 seconds*										
2	3 minutes 45 seconds*										
3	5 minutes 15 seconds*										
4	6 minutes 45 seconds*										
	<p>The Dry program allows you to run the drying mode separately, without a washing cycle. Increase or decrease the drying time by rotating the button on the left. You can also adjust drying time during a program when the record is being dried.</p>										

06 Using the machine

PROGRAM	DESCRIPTION
	<p>The Degas program gets rid of excessive gas in your distilled water. This improves the ultrasonic cleaning process. Running the Degas program is not mandatory, as the first cleaning program will have the similar effect as the Degas. The Degas program should be run after adding cleaning fluids to the water as this will mix the fluid in the water.</p>
	<p>Activate to enter the settings menu.</p>

! NOTE

Washing programs move the record back and forth. This is normal and helps with the cleaning process.

! NOTE

It is recommended to run the Degas program with every new tank of distilled water after adding cleaning fluid.

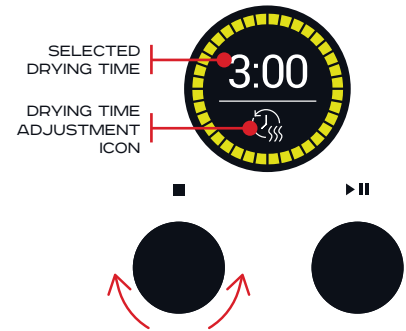
The Degas program is not needed after topping up the tank to compensate for the evaporated water.

ADJUSTING DRYING TIME

Turn the left button to change drying time for all programs. Drying time will change the overall length of the program, but it will not affect the washing cycle's duration. You can also adjust drying time during a cleaning program when the record is being dried.

! NOTE

You can run record cleaning programs without the drying cycle. To do so, you can set the drying time to zero.



06 Using the machine

PRE-SOAK INDICATOR

Pre-soak is a feature that can be enabled and disabled from the settings menu. When enabled, the pre-soak icon will be displayed next to the washing program revolutions and also at the start of the program.

When pre-soak is enabled, the machine will soak the records in water for a short time period before starting the ultrasonic cleaning. This will wet and loosen any dried residue on it so that the cleaning cycle will be more effective.



WATER TEMPERATURE

During ultrasonic washing, the machine will display water temperature reading from its ultrasonic cleaning tank. The temperature unit can be changed between Celsius and Fahrenheit in the Settings menu Info section.



COOLING WATER

Energy emitted during ultrasonic cleaning will slowly increase the cleaning water temperature. Excess heat is mitigated automatically to protect records by adding 3 minutes of cooling to the washing time when over-temperature is sensed (35 °C or 95 °F). The ultrasonic generator stops working for this time and air is forced through the machine.

 **NOTE**

Water cooling cycles can lengthen the washing program, but they will not increase the total ultrasonic cleaning time that the record is exposed to.



07 Settings menu

SETTINGS MENU

PRE-SOAK

TWO TANK RINSE WASH

FILTER RUNS COUNTER

FAN POWER

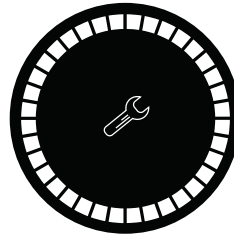
WATER LEVEL

INFO

TEMPERATURE UNITS

SETTINGS MENU

To access the settings menu, press the right button on the settings icon.
To exit the settings menu, press the left button.



PRE-SOAK

Press the right button to turn pre-soak on or off.

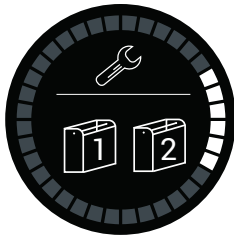
When pre-soak is enabled, the machine will soak the records in water for a short time period before starting the ultrasonic cleaning. This will wet and loosen any dried residue on it so that the cleaning cycle will be more effective.



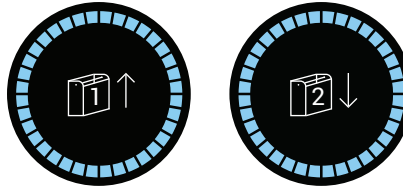
TWO TANK RINSE WASH

Press the right button to enable or disable the two tank rinse wash function.

When the Rinse wash option is enabled, the machine will use a separate water tank for rinsing the records after every washing cycle. In order to do so, the user has to have two water tanks and the user will have to swap the water tanks manually.



The machine will prompt a message to insert the rinse water tank once the washing program has finished. Once the water tank has been swapped, the program will continue automatically.



! NOTE

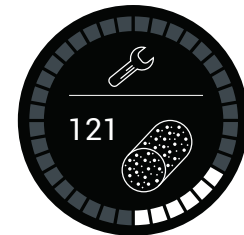
A few drops of water may escape when swapping water tanks. As a precaution we recommend using the machine on a waterproof surface when a rinse tank is used.

FILTER RUNS COUNTER

Press the right button to reset the filter runs to 0.

The machine will prompt a reminder to clean the filter after every 50 washing cycles. The reminder is automatic and will be prompted based on the Filter runs counter, visible in the settings menu, at 50, 100, 150, 200 ... runs.

In order for the reminder to work properly, the number of washing cycles on the filter will have to be reset every time the filter is cleaned.

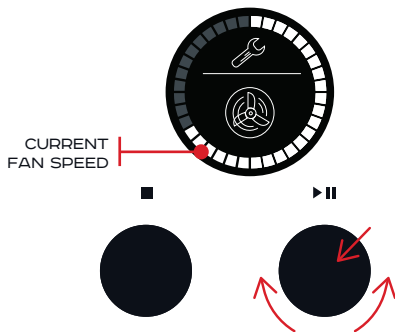


07 Settings menu

FAN POWER

To adjust the fan power setting, press the button on the right - this starts the fans and the configuration. Now rotate the button on the right to adjust fan power. Press the button on the right again to save your desired fan power value.

Less power means less audible noise, but it also dictates a longer drying time and vice versa.

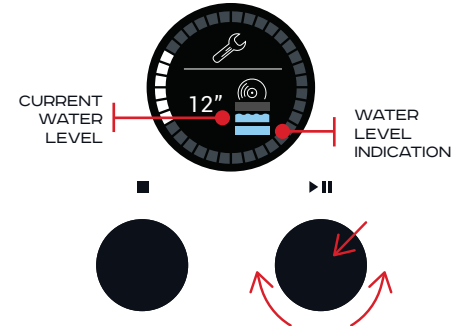


WATER LEVEL

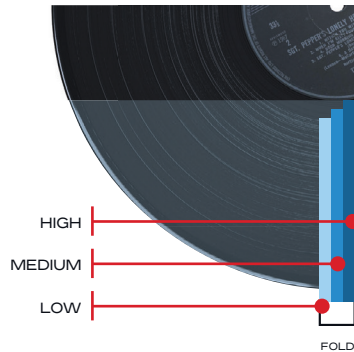
The water level setting allows you to change the water level in the ultra-sonic tank. Press the right button to switch between water level settings.

For cleaning 12" records it is recommended to use a medium water level setting. The low water level setting is furthest from the record label, but with this setting the water level is closer to the filtration intake. On rare occasions using this setting can cause more foaming in the machine.

Degritter comes packaged with a color coded measurement strip. With it you can measure the distance from the edge of your record to the desired water level setting.



WATER LEVEL	DESCRIPTION
Low	Furthest from the label.
Medium	Recommended setting for 12" records.
High	The closest to the record label. For 7" records with adapter.

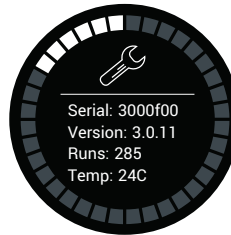


INFO

INFO ITEMS	DESCRIPTION
Serial	The machine's unique serial number.
Version	The current software version on the machine.
Runs	Number of washing cycles the machine has gone through in its lifetime.
Temp	Ambient temperature of the machine.

TEMPERATURE UNITS

Pressing the right button in the INFO section of the Settings Menu will alter between Celsius and Fahrenheit temperature units.



08 Water, fluid, filter

USE PURIFIED WATER

ADDING CLEANING FLUID

FILTER REMINDER

MAINTAINING THE FILTER

USE PURIFIED WATER

Use only purified water to clean records as the limescale in tap water will leave residue on the inner surfaces of the machine over time. We recommend using distilled or deionized water. Whichever water type is used, it is important to have low levels of dissolved solids, eg. limescale.

NOTE

Limescale build up in the machine will cause failures and it will void warranty.

It is recommended to change the water in the tank at least once every 1-2 weeks or after every 30 records. This is to avoid any microbial growth.

Do not add foaming cleaning fluids to the water. Excessive amounts of foam can affect the machine's sensors.

NOTE

Add cleaning fluid only once per water tank. Using too much cleaning fluid will cause excessive foaming.

ADDING CLEANING FLUID

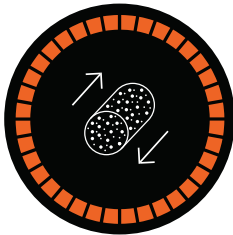
You can add Degritter Cleaning Fluid into the machine water tank to improve the cleaning process. Degritter will run without it, but some impurities need a detergent to properly get rid of them.

Fill the tank with distilled water, then add 1-2 ml of cleaning fluid and run the degas function. Mix the fluids evenly by stirring them with the pipette. The suggested quantity for adding cleaning fluid is marked on the label of the fluid bottle. If used in prescribed concentrations, the Degritter cleaning fluids do not need to be rinsed.

FILTER REMINDER

The machine will remind you to clean the filter after every 50 washing cycles. The reminder is automatic and will be prompted based on the **Filter runs counter**, visible in the Settings Menu, at 50, 100, 150, 200 ... runs.

In order for the reminder to work properly, the number of washing cycles on the filter will have to be reset every time the filter is cleaned. The **Filter runs counter** value can be reset in the Settings Menu.



MAINTAINING THE FILTER

To access the water filter, unscrew the cap on the bottom half of the right side panel of the machine. Use a coin for screwing and unscrewing the cap. Turning the cap counter-clockwise loosens it and turning it clockwise tightens it.

The filter consists of a fine steel mesh cylinder that has a foam insert. The cylinder will sit snugly in the filter cap and can be removed for cleaning.

When replacing the foam filter, it is important to also wash the steel mesh filter. If the foam filter is not too dirty, then it can be washed and reused. We recommend cleaning and replacing the filter after every 50 to 100 records.

When screwing the cap back into the chassis, make sure that the cap is flush with the side panel. This ensures that the cap seal will not leak.

! NOTE

Clean or replace the filter after every 50 to 100 cleaning cycles.



09 Cleaning the machine

WHEN TO CLEAN

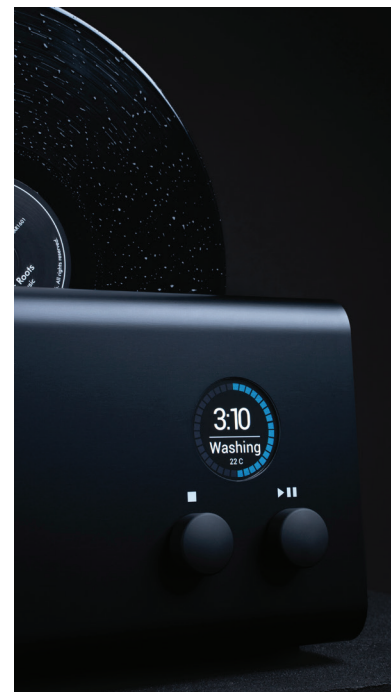
CLEANING THE MACHINE

WHEN TO CLEAN

Degritter machine must be cleaned at a minimum of every 250 washing cycles. This is to prevent bacterial growth from forming inside the machine and to remove dirt that may have accumulated.

! NOTE

Failure to clean the machine regularly will void the Degritter warranty!



CLEANING THE MACHINE

1. Add 6-8 ml of the machine cleaning fluid to the filled water tank. Run "Program 1" three times without drying.
2. During the third cycle pause the machine. Let the liquid settle for 10 minutes. Resume the program and pump the liquid out into the water tank.
3. Using a toothbrush, gently scrub the inside of the ultrasonic tank. **Be careful around the water level sensor pins.**
4. Remove the filter cap and brush the opening. Remove the filter from the filter grid. Lightly brush the filter grid and rinse it thoroughly under running water. Change filter.
5. Rinse the machine three times with clean distilled water, using "Program 1" without drying. After each rinse cycle, empty the water tank and refill it with fresh, clean distilled water.
6. Remove the water tank and rinse it thoroughly with clean water before reinstalling it.

10 Installing software updates

PREPARE THE SD CARD

INSTALL SOFTWARE

VERIFY SOFTWARE VERSION

PREPARE THE SD CARD

1. Make sure to get a card with under 32GB of size. The SD card must have FAT32 or FAT16 file system and usually these are cards with 16GB or less space. Larger cards will use exFAT that unfortunately will not work.
2. Download the latest compatible software from the Degritter website (degritter.com). The name of the software file is ***degrittr.bin***. Make sure that the file name is correct - be mindful of the missing letter e.
3. Insert the SD card into your computer and it should show up as a new drive. Copy the "degrittr.bin" software file that you downloaded from our website on to the SD card.

The file must be placed in the root directory. It must NOT be in any folders.

4. On your PC or Mac, right click on the SD card drive and select "Eject". Only after this has been done can you remove the card from the computer. This makes sure that the computer does not accidentally corrupt any data on the drive.



INSTALL SOFTWARE

1. Turn off Degritter from the switch at the back and wait 10 seconds so that the capacitors in the machine can discharge.
2. Insert the SD card into the machine in the slot at the back as shown on the image. When inserting the card, the bare contact pins on the card must face the direction where the water tank is.
3. Turn on the machine from the switch on the back. After turning on the machine, the screen will remain blank for a few seconds. During this time the machine will upgrade itself. It will take a few seconds to start its display and once it does it will display an icon for SD card removal. You can remove the card from the machine.
4. Navigate to the INFO menu of the machine and check the software version. It must be the same as the version that was displayed on our website from where you downloaded it from.

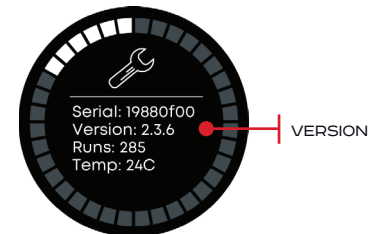
! NOTE

If the machine's display stays black and the unit will not start, then there is either a problem with the file on the SD card, the SD card file format, or with the SD card connection.



VERIFY SOFTWARE VERSION

Once the machine has started, navigate to the INFO section in the menu and verify that the new version listed is the same as on the degritter.com webpage.



11 Troubleshooting guide

IS THE ULTRASONIC CLEANING WORKING?

MACHINE IS LEAKING WATER

! NOTE

Most recent troubleshooting guide recommendations can be found on Degritter's website degritter.com.

IS ULTRASONIC CLEANING WORKING?

The ultrasonic cleaning in Degritter machines can normally be detected by an accompanying hissing sound that resembles white noise. This is best heard during the Degas program when the machine turns ultrasonic cleaning on and off with about 7-10s intervals.

If there is doubt that Degritter's ultrasonic cleaning is not working properly, then the following characteristics of the machine can be checked.

TEMPERATURE MUST RISE

Ultrasonic cleaning in Degritter uses about 240W of power. A large portion of this will eventually be converted to heat and when ultrasonic cleaning is working properly, the machine will heat up during use. If the machine is working properly, then during a 4 revolution cycle the water temperature visible on the display will rise above 30 °C (86 °F).

If the temperature in the machine does not rise or if the machine has very low power consumption, contact support@degritter.com.

MACHINE IS LEAKING WATER

Most common causes for leaks are incorrectly topping up the water tank, filter cap seal, or the removable water tank and the machine connection. All of these can result in water dripping from underneath the machine.

INCORRECT TOPPING UP

When topping up the removable water tank with water, make sure that the ultrasonic tank is empty. During the washing cycle, water is in the ultrasonic cleaning tank and if the removable tank is topped up the tank will overflow, when water is pumped out.

Just in case, check that the ultrasonic cleaning tank is empty before pouring additional water into the removable water tank.

FILTER CAP LEAK

Remove the filter cap and make sure that the cap has a 2mm thick O-ring seal around it. When inserting it back into the machine take care to screw it all the way in.

LEAK FROM THE WATER TANK CONNECTION

In order to prevent water from leaking from the water tank connection, make sure to press down slightly on the water tank when

inserting it. This is to make sure that the water tank is all the way in. If a second water tank is available, try using the machine with a different tank. This is to exclude the possibility of a faulty water tank connection.

A bit of water in the bottom of the machine will not harm the electronics inside, but it should still be prevented. Before using the machine, switch it off from the AC switch and disconnect the power cable from the wall. Remove the water tank from the machine. Pick the machine up and tilt it 90 degrees from side to side to drain the chassis. Once this has been done, the machine can be turned on again.

If the water leaks persists, contact support@degritter.com.

11 Troubleshooting guide

FREQUENT WATER COOLING CYCLES

MACHINE IS FOAMING EXCESSIVELY

FREQUENT WATER COOLING CYCLES



Degritter machine is using 240W of power for its ultrasonic cleaning. Most of this will be eventually converted to heat that will slowly raise the water temperature in the ultrasonic cleaning tank. Once the water temperature reaches 35 °C or 95 °F, the machine will insert a 3 min water cooling cycle into the washing program. This is done to prevent damage to the record from too high temperatures.

It is normal for the machine to reach the water temperature threshold after 1-2 washing cycles with 4 revolutions.

In order to reduce water cooling cycles:

- Fill the removable water tank with as much water as you feel safe carrying. The more the better.
- Set a longer drying cycle with a lower Fan Power setting. This will give water more time to cool between washing cycles.
- When operating the machine remove the lid from the water tank.

- Use two water tanks when cleaning a larger number of records. Swap water tanks between cycles, so that one tank can cool while the other one is in use.
- Place distilled water ice cubes or a small ice pack in the removable water tank while the machine is in use.

MACHINE IS FOAMING EXCESSIVELY

It is normal to have small amounts of foam on the record during the washing cycle, but if the machine is generating too much foam, then it can cause water droplets running down on the record label.

To prevent foaming:

- Make sure that you are not exceeding the maximum amount of cleaning fluid per water tank. Degritter cleaning fluid should be added only once per water tank. Do not add additional fluid when topping up the removable water tank.
- If there is a chance that too much cleaning fluid has been used or if you have experimented with other cleaning fluids, then please clean the machine as described in the 09 Cleaning the machine.
- Turn off the machine from the switch on the back when replacing the water tank. Turning the machine off and on from the switch will start booting up with priming. Properly primed pumps will generate less foam.
- Make sure that the filter has not clogged. Clean the filter after every 50 cycles.
- Fill the removable water tank with as much water as you feel comfortable carrying.
- Set the water level setting to Medium. The surface skimming filtration is pulling water into the filter quite close to the water line. In rare cases the Low water level setting can cause the filtration pump to suck in air which will cause additional foaming. Make sure that the removable water tank is all the way in. Press it gently after the tank has been inserted.

11 Troubleshooting guide

RECORD IS NOT ALIGNED
PROPERLY

RECORD DOES NOT GET WET

THICK RECORDS GET STUCK

**RECORD IS NOT ALIGNED
PROPERLY**

When the record in the machine tilts to one side and rubs against the rubber gasket that is around the record insertion slot, then most likely there is a problem with the alignment of the plastic rollers located at the top right side of the machine that revolve the record.

To solve the issue, remove the rubber gasket from around the record insertion slot. Use a large flat headed screwdriver to shift the roller on the top right side of the machine on its shaft slightly. The shaft of this roller is connected to a motor driving the belt drive and the roller has been placed on the shaft with a tight fit. It is possible to move the roller's position slightly by pressing on its sides with a screwdriver. Before inserting anything into the

Degritter make sure that the device has been turned off from the AC switch at the back and also detach the power cable from the machine.

RECORD DOES NOT GET WET

On some occasions, during the washing cycle, the side of the record exiting the ultrasonic cleaning tank can look almost dry. The cleaning fluid acting as a surfactant together with the back and forth movement of the record can cause almost all the water to flow off. When the water level inside the ultrasonic cleaning tank is close to the label during washing, then there is no reason to be alarmed.

THICK RECORDS GET STUCK

When thick 180g or 200g records do not sit properly in the record insertion slot and get stuck, the plastic rollers revolving the record, located at the bottom of the ultrasonic cleaning tank may have a too small gap.

To solve the issue, turn off the Degritter from the AC switch at the back. Remove the rubber gasket from around the record insertion slot. Place a thick record between the record revolving rollers while looking inside the machine. Try to determine which roller is causing the record to get stuck.

Once the problematic roller has been found, take a large flat headed screwdriver and place it at the center of the roller, at the

groove where the record sits. Twist the screwdriver by a small degree to force the sides of the roller slightly apart. The two rollers at the bottom are made of two conjoined sides sitting on one shaft.

Increase the roller groove width by very small increments and test it with the record. Driving roller sides too far from each other will cause the roller to wedge itself stuck in the belt drive assembly.

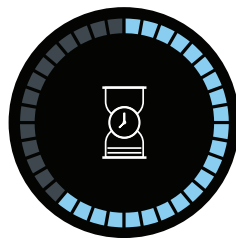
Before inserting anything into the Degritter make sure that the device has been turned off from the AC switch on the back and also detach the power cable from the machine.

11 Troubleshooting guide

MACHINE MAINTENANCE

WATER DROPLETS ON RECORD AFTER DRYING

MACHINE MAINTENANCE



After every 50 washing programs, the machine will automatically run a quick maintenance cycle and will then continue with the selected program.

The maintenance cycle will pump water back and forth through the valves in order to clean potential debris from them. The cycle will take under 1 minute.

The maintenance program is run every 50 cycles with an offset of 10. This means that the program will start on the 60th, 110th, 160th, 210th cycles and so on.

Machine maintenance cycle can be started manually. To do so, navigate to the Degas program in the menu. Press and hold the left button and immediately press the right button.

WATER DROPLETS ON RECORD AFTER DRYING

Water droplets on the record after the drying cycle can be caused by insufficient drying time, too high fan power setting, small amounts of water being left in the ultrasonic cleaning tank at the end of the washing cycle, or by a valve leaking water back into the ultrasonic cleaning tank.

Maximum Fan Power setting can on rare occasions throw up a few drops of water that has been left in the ultrasonic cleaning tank. The drying program will eventually dry these off, but it can cause trouble when trying to set precise drying length.

In order for the machine to pump out all the water from the ultrasonic cleaning tank, it is important for the filter to be sufficiently clean. With a clogged filter, some of the water can get trapped and will seep through to the ultrasonic cleaning tank later while the machine is drying the record.

If the issue persists, then the cause may also be a clogged valve that leaks a small amount of water back into the cleaning tank. To clean the valves, start the **Machine maintenance** cycle manually. The maintenance program will pump water back and forth through the valves and may remove debris stuck in there.

To start **Machine maintenance** navigate to the **Degas program** in the menu. Press and hold the left button and immediately press the right button. If this solves the issue, then clean the machine with vinegar as described in **Cleaning the machine** section.

11 Troubleshooting guide

WATER IS LEAKING INTO THE
ULTRASONIC CLEANING TANK

HOW TO EMPTY ULTRASONIC
TANK WITHOUT POWER

CLICKING SOUND DURING
WASHING

WATER IS LEAKING INTO THE ULTRASONIC CLEANING TANK

If water from the removable water tank is slowly leaking into the ultrasonic cleaning tank, then it indicates that the valve separating the tanks is letting small amounts of water through. This can be caused by debris stuck in the valve.

To clean the valves, start the *Machine maintenance* cycle manually. The maintenance program will pump water back and forth through the valves and may remove debris stuck in there.

To start *Machine maintenance* navigate to the *Degas program* in the menu. Press and hold the left button and immediately press the right button. If this solves the issue, then clean the machine with vinegar as described in *Cleaning the machine* section.

The Degritter machine must be placed on a levelled surface. If the machine is not placed on a level surface, some of the water will leak back into the ultrasonic cleaning tank.

HOW TO EMPTY ULTRASONIC TANK WITHOUT POWER

If the machine has developed a fault that does not allow it to be turned on, but there is water left in the ultrasonic cleaning tank inside the machine, then removing the water will be necessary before debugging or shipping the machine.

To remove the water from inside the cleaning tank, first detach the power cable from the machine and place the Degritter on a waterproof surface. Remove the filter cap and the filter housing from the machine. Face the machine and start very slowly tilting it to the right, by raising the left side of the Degritter. Eventually the water will start flowing through the filtration port out from the machine.

It is also beneficial to remove the right side panel from the machine as some of the water may flow over the ultrasonic cleaning tank and exit through there.

CLICKING SOUND DURING WASHING

This is normal. During the washing cycles, the machine monitors the water level and will make small adjustments when necessary. In order to adjust the water level, a valve is opened and this makes the clicking sound.

11 Troubleshooting guide

FANS ARE ON AFTER PROGRAM HAS FINISHED

DISPLAY UPSIDE DOWN

DISPLAY HAS SCRAMBLED SECTIONS

MACHINE IS STARTING PROGRAMS AUTOMATICALLY

WARNING: ADD WATER

FANS ARE ON AFTER PROGRAM HAS FINISHED

The machine monitors the temperature of its internals. Once the temperature exceeds 28 °C or 83 °F, the machine will cool itself to better prepare for the next washing cycle, even while in idle mode. The fans will stop automatically when the temperature has been sufficiently lowered.

DISPLAY UPSIDE DOWN

The issue is caused by a rare glitch in the software. Restarting the unit will solve it.

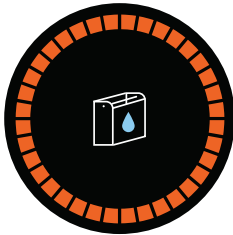
DISPLAY HAS SCRAMBLED SECTIONS

During the machine's transport, sections of its memory may have been exposed to strong electromagnetic interference. Flashing the software again from the SD card will solve the issue.

MACHINE IS STARTING PROGRAMS AUTOMATICALLY

An automated testing program has been accidentally enabled from the menu. Turning the machine off from the switch on the back, waiting 10s for the capacitors to discharge and turning the machine back on again will disable this function.

WARNING: ADD WATER



Add Water warning is displayed when there is no water or not enough water in the removable water tank to fill the ultrasonic cleaning tank. Water can evaporate during washing and drying cycles and the water tank may need topping up.

If there is enough water in the water tank, then it can indicate that the removable water tank has not been inserted properly and the machine is having trouble pumping sufficient

amounts of water from there. When previous cases have been checked, then the cause may be a clogged pump or valve. To clean the valves, start the *Machine maintenance* cycle manually. The maintenance program will pump water back and forth through the valves and may remove debris stuck in there.

To start *Machine maintenance* navigate to the *Degas program* in the menu. Press and hold the left button and immediately press the right button..

If this solves the issue, then clean the machine with vinegar as described in *Cleaning the machine section*.

You can also try restarting the unit manually from the back panel. If the issue persists, contact support@degritter.com for help.

11 Troubleshooting guide

WARNING: DRAIN FAIL

WARNING: ERR SENS4
& ERR SENS5

WARNING: DRAIN FAIL

Drain Fail warning is presented when the machine is unable to verify that the ultrasonic cleaning tank has been properly emptied. To clean the valves, start the *Machine maintenance* cycle manually. The maintenance program will pump water back and forth through the valves and may remove debris stuck in there.

To start *Machine maintenance* navigate to the *Degas program* in the menu. Press and hold the left button and immediately press

the right button. If this solves the issue, then clean the machine with vinegar as described in *Cleaning the machine* section



WARNING: ERR SENS4 & ERR SENS5



Warnings ERR Sens4 or ERR Sens5 indicate that the machine has failed to properly detect upper water level in the ultrasonic cleaning tank.

The Degritter has three pairs of water level sensing pins near the top of the ultrasonic cleaning tank. These are visible when the rubber gasket has been removed from around the record insertion slot. The issue can be caused by either excessive foaming that has left some foam on the pins once the water is pumped out, the pins that have

become dirty and need cleaning, or by slight misalignment of the angle of the pins.

For cleaning the pins, turn the Degritter off from the AC switch on the back of the machine and detach the power cable. Remove the rubber cover from around the record insertion slot and locate the water level sensing pins near the top of the ultrasonic cleaning tank. Clean the pins by gently rubbing them with a toothbrush that has been wet with 10% vinegar. Take care not to bend the pins. Rinse the toothbrush and remove the leftover vinegar from the pins with a toothbrush wet in purified water. Follow up with running 3 shortest washing cycles with 1 Revolution program and High water level setting without a record to clean the ultrasonic cleaning tank. Replace the water before cleaning the records again. For adjusting the alignment of the water sensing pins, refer to the

Guide for troubleshooting: ERR Sens4 & ERR Sens5 manual available on our website degritter.com under troubleshooting section.

ULTRASONIC ERROR 1



The warning indicates that the connection between the machine's control board and the ultrasonic generator has failed.

Please restart the unit manually from the back panel, wait 10 seconds and turn the machine on again. If the issue persists, contact support@degritter.com for help.

12 Frequently Asked Questions

IS THE MACHINE SAFE FOR CLEANING A SHELLAC RECORD?

Based on the experience of multiple customers of ours, we can say that cleaning shellac records with Degritter is safe for the records when no cleaning fluid is used. When cleaning shellac records run the programs only with pure purified water.

IS THE MACHINE SAFE FOR LACQUER-ACETATE RECORDS?

We have not conclusively tested cleaning lacquer-acetate records with Degritter. Still, running them through cleaning programs with pure water, without the fluid will likely do them no harm.

CAN I USE MY OWN CLEANING FLUID?

Yes, you can try out your own cleaning fluid, but avoid pH extreme solutions, such as very high acidity or very alkaline chemicals.

Do not use fluids that increase foaming. Excessive foaming in the machine can cause water level sensors to give inaccurate readings. When experimenting, start with small amounts like 0.1 ml per water tank and test to see if the foaming has increased or not. When the foaming becomes a problem, clean the machine as described in section 09 Cleaning the machine.

! NOTE

Degritter machine warranty does not cover cases where excessive foaming and water droplets on record labels have occurred due to experimental cleaning fluid.

13 Limited warranty disclaimer

Degritter (Degritter OÜ) warrants each new ultrasonic cleaning product against defects in materials or workmanship for a period of two years from the date of purchase, and agrees to repair or replace any defective Degritter record cleaning machines without charge. Shipping costs are non-refundable. This warranty is transferable. All warranty claims must be accompanied by the original proof of purchase.

THIS WARRANTY DOES NOT COVER DAMAGE RESULTING FROM ACCIDENT, MISUSE OR ABUSE, LACK OF REASONABLE CARE, SHIPPING DAMAGE, MODIFICATIONS, THE AFFIXING OF ANY ATTACHMENT NOT PROVIDED WITH THE PRODUCT, OR LOSS OF PARTS .

Use of unauthorized chemical cleaning agents or liquids will void this warranty. Degritter will not pay

for warranty services performed by a non-authorized repair or diagnostic service and will not reimburse the consumer for damages resulting from warranty service performed by a non-authorized repair service. No responsibility is assumed for any special incidental or consequential damages due to a defective Degritter product.

In order to obtain warranty service, contact our customer support (support@degritter.com) for information. The product must be shipped postage prepaid to an authorized Degritter service location. It is suggested that, for your protection, you return shipments of product by insured mail, insurance prepaid. Damage occurring during shipment is not covered by this warranty. Shipping costs are non-refundable. No other warranty, written or oral, is authorized by Degritter.

DISCLAIMER

In no event shall Degritter OÜ, or its employees, agents, suppliers, manufacturers, or contractors be liable for any damages of any kind of character, including without limitation any compensatory, incidental, direct, indirect, special, punitive, or consequential damages, loss of use, loss of data, loss of income or profit, loss of or damage to persons or property, claims of third parties, or other losses of any kind or character, and whether or not the possibility of such loss or damage has been notified to Degritter OÜ.

14 Customer support contacts

When emailing a support request, please describe what has happened, take a picture if possible and attach it to the email. Also provide us with your machine's serial number and the software version found in the Info menu.

support@degritter.com

+372 5884 8839

Monday to Friday, 8:00-16:00 UTC

Degritter user guide: Mark II-ENG 3.4
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