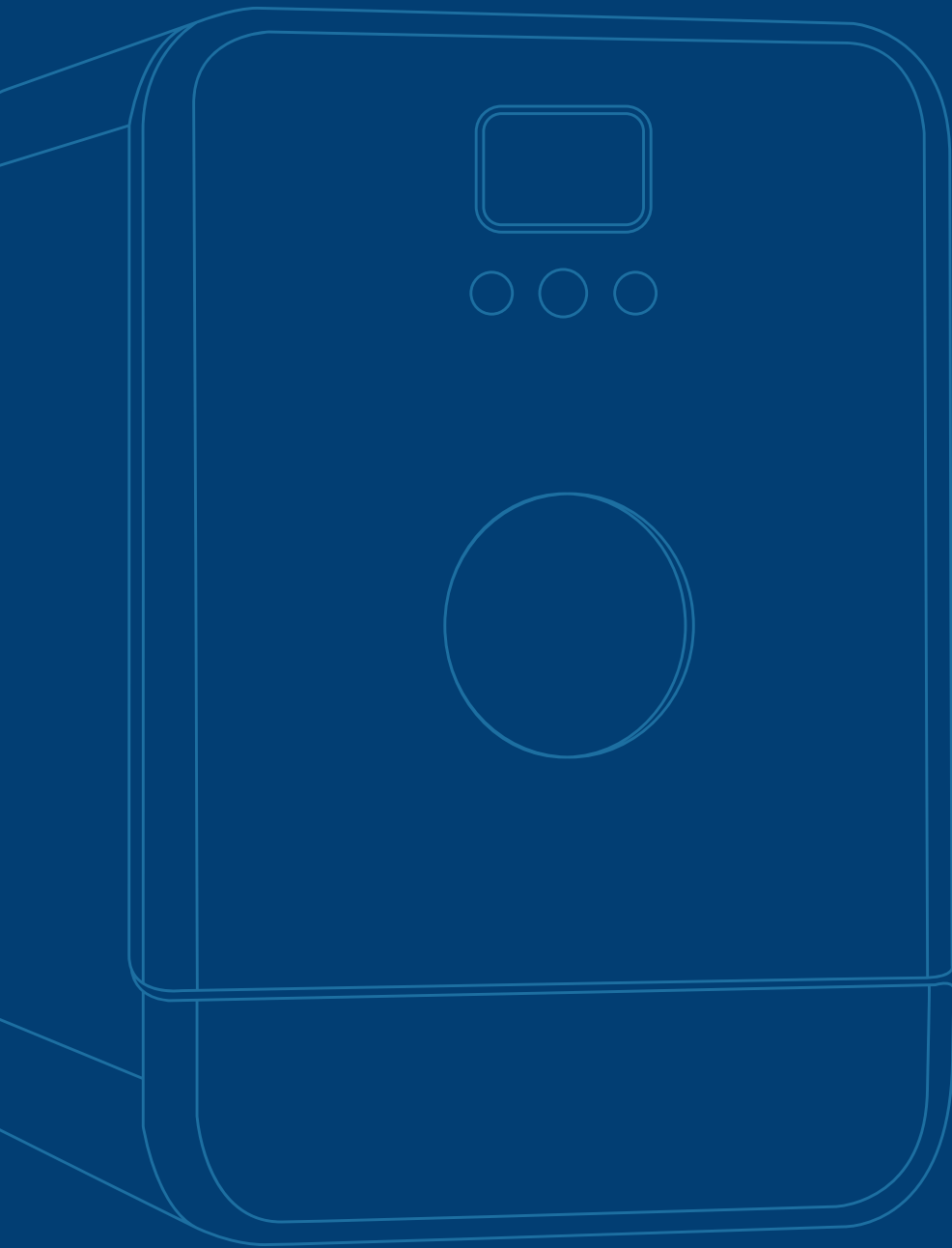


THERMAL WASHER

USER GUIDE



Thermal
disinfection



Plug & Play



Whisper-quiet 43dB



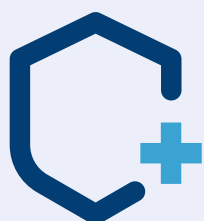
No biocides



Sustainably
designed & built to
last



Made in France



daan tech
medical

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I. GENERAL INFORMATION

Product Model : Thermal Washer

This product is eco-designed and manufactured in France by:

Daan Technologies

ZA Mortier Est

348 Impasse Paul-Louis Dagnet

85610 Cugand, France

WHO ARE WE?

We are a French industrial company founded in 2016.

We design and manufacture innovative products at our 2,500 sq. meter facility in Vendée.

If you need assistance, reach out by email: sav@daan.tech

II. SAFETY INSTRUCTIONS

Be sure to read the instructions carefully before using.

Burn hazard: Steam and hot water at the end of the cycle.

Electrical hazard: Always connect the device to a grounded outlet. Never handle with wet hands or while barefoot.

Do not block water inlets/outlets or ventilation openings.

Only qualified personnel should perform use and internal maintenance.

III. SCOPE OF APPLICATION

This thermal washer is designed for cleaning, rinsing, disinfecting, and drying reusable veterinary medical devices (such as surgical instruments, forceps, curettes, and more).

The term “instruments to be washed” will be used in this manual when the nature of the items to be washed is not specified.

The cleaning/disinfection process starts with chemical treatment (spray/detergent), followed by thermal disinfection (A0 600 – maximum temperature 85°C).

Proper cleaning is essential to ensure effective disinfection, sterilization, and the absence of residues, which allows the instruments to be safely reused.

IV. WARNINGS

This thermal washer complies with current safety regulations. Any other use may pose risks to persons and to the appliance.

Read this manual carefully before using the appliance.

► This thermal washer is intended exclusively for the applications specified in this manual. Any other use, as well as any alteration or modification, is prohibited and may be dangerous. The washing and disinfection processes are intended only for instruments and medical accessories declared reusable by their manufacturer. Follow the instructions provided by the manufacturers of the utensils and medical instruments to be cleaned. The manufacturer cannot be held liable for damage caused by improper use or incorrect handling.

► The thermal washer must be used indoors only.

► Installation and commissioning of this thermal washer on mobile units (such as boats) may only be carried out by specialized companies or qualified professionals, ensuring that the necessary safety conditions for proper operation are met. Follow the instructions below to avoid the risk of injury.

► The thermal washer must be repaired only by trained and qualified personnel. Incorrect repairs may pose serious hazards to the user.

► Do not install this thermal washer in areas subject to explosion risks or freezing conditions.

► The electrical safety of this appliance is guaranteed only if it is connected to a compliant grounding system. In case of doubt, the electrical installation must be checked by a professional. The manufacturer cannot be held liable for damage caused by missing or defective grounding.

► A damaged or leaking appliance may compromise your safety. Switch off the thermal washer immediately and contact an authorized technician through your distributor.

► Take care when handling chemicals (cleaning agents, neutralizers, rinsing agents, etc.), which may be corrosive and irritating. Follow the safety instructions provided by the manufacturers of all chemical products.

► This thermal washer is intended exclusively for use with detergents specifically supplied by the distributor and/or the manufacturer of the appliance. The use of cleaning agents other than those specified by the distributor or manufacturer is strictly prohibited. The appliance must not be used with organic solvents or flammable liquids.

► Arrange sharp and pointed objects in such a way as to avoid injury.

► The thermal washer operates at high temperatures. Forcing the door open during a program presents a high risk of burns. Wait for the end-of-cycle notification before accessing the load.

► In case of contact with toxic vapors or chemical products, follow the safety instructions provided by the manufacturers.

► Ensure that baskets, trays, and instruments have cooled down before handling them.

► Do not clean the thermal washer or its immediate surroundings with a water jet or high-pressure cleaner.

► Ensure that the thermal washer is switched off before carrying out any maintenance work.

► Please observe the following instructions to ensure quality control during the processing of medical devices and to avoid any risk to patients, as well as damage to the appliance and the items being processed.

► Any program interruption cancels the washing/disinfection cycle and generates an error message. The fault must be manually acknowledged before starting another washing/disinfection cycle.

► The thermal disinfection process of the thermal washer applies temperature settings and exposure times in accordance with current standards, guidelines, and microbiological and hygienic knowledge.

► Recommending chemical products (such as detergents) does not imply that the manufacturer of the appliance assumes responsibility for the effect of these chemicals on the materials of the items being processed. Please note that changes in chemical formulations, storage conditions, etc., not specified by the chemical manufacturer, may affect the quality of the cleaning results.

► In the case of complex applications requiring specific preparation, consult your distributor in advance regarding process conditions (chemical products used, water quality, etc.).

► Use the carts, baskets, and load carriers correctly. Hollow instruments must be completely flushed through with water.

► Empty all containers before loading them into the appliance.

► No significant residues of solvents or acids—particularly hydrochloric acid and chloride-based solvents—must enter the chamber when loading instruments to be processed. Corrosive ferrous instruments must also not be placed in the chamber.

► Follow the instructions provided in the operating manual and installation guide.

Accessories

► Only use and connect accessories from the distributor's catalog. If baskets or additional accessories other than those supplied by your distributor are used, washing and disinfection results can no longer be guaranteed. Such damage is excluded from the warranty.

The manufacturer cannot be held liable for damage resulting from failure to comply with safety instructions and warnings.

► Take care not to inhale the products. Ingestion of detergent may cause burns to the mouth and throat and may lead to asphyxiation.

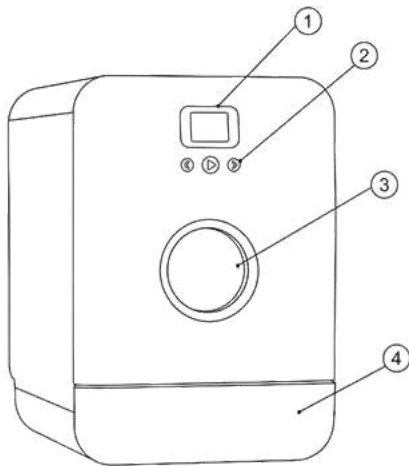
► The water in the chamber is not potable.

► Do not lean or sit on the open door, as the thermal washer may tip over and become damaged.

V. PHYSICAL AND TECHNICAL SPECIFICATIONS

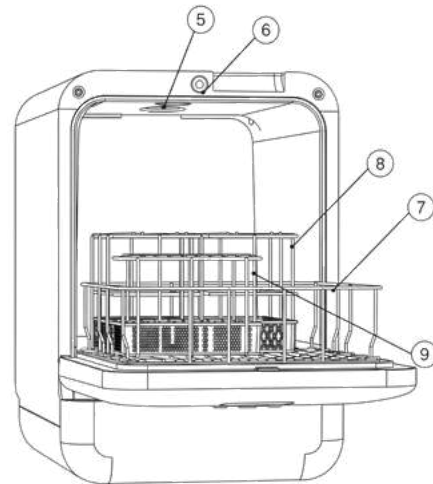
Design & model	
Model	Freestanding unit
Exterior Finish	Plastic
External Dimensions (W x D x H)	34 cm x 49 cm x 49 cm
Weight	Approx. 13 kg when empty
Washing Chamber Volume	28 L
Washing Chamber Dimensions	28 cm x 35 cm x 29 cm
Sound Level	43 dB
Electrical Connection	
Electrical Connection	Voltage [220–240 V], frequency [50Hz], unit must be grounded
Electric Heating Power (W)	1000
Total Power Output (W)	1300
Fuse protection (A)	10
Power Cord Length	1,5 m
Water/Drain Connection	
Water Supply	Minimum pressure 0.05 MPa (0.5 bar), maximum 1 MPa (10 bar)
Drain Hose Length	1.5 m
Maximum Drain Pump Lift Height	Maximum 1.20 m above the unit
Maximum discharge temperature	Up to 80°C
Accessories	
Main Stainless Steel Basket	x1
Stainless Steel Instrument Basket Accessory	x1
Stainless Steel Clamp Basket Accessory	x2
Main Stainless Steel Basket	x1
Standards, Labels & Marking	
Electrical safety	EN 60335-1 : 2012 + A11 :2014 + A13 :2017 + A1 :2019 + A14 :2019 + A2 :2019 + A15 :2021 EN 60335-2-5 : 2015 + A11 :2019 + A1 :2020
EMC	EN 62233 : 2008 EN IEC 55014-1 : 2021 EN IEC 61000-3-2 : 2019 + A1 :2021 EN 61000-3-3 : 2013 + A1 : 2019 + A1 :2021 EN IEC 55014-2 : 2021
ROHS	IEC 62321

VI. DEVICE DESCRIPTION: “THERMAL WASHER”



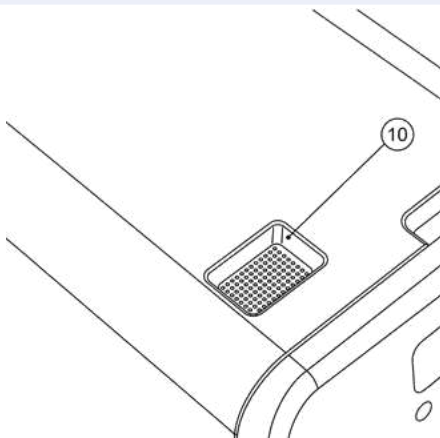
Front of unit, door closed –
3/4 angle view

- 1 : Color Display
- 2 : Selector Buttons
- 3 : Window
- 4 : Kick Plate



Front view of the unit, door open –
3/4 angle view

- 5 : Colored LED Light
- 6 : Door Locking System
- 7 : Main Stainless-Steel Basket
- 8 : Stainless steel forceps basket accessory
- 9 : Stainless-Steel Instrument



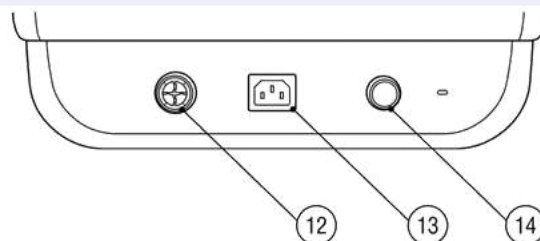
Top view of the product

- 10 : Ventilation (do not block!)



3/4 angle view – base panel open

- 11 : Detergent refill compartment



Rear view

- 12 : Water inlet

- 13 : Power supply

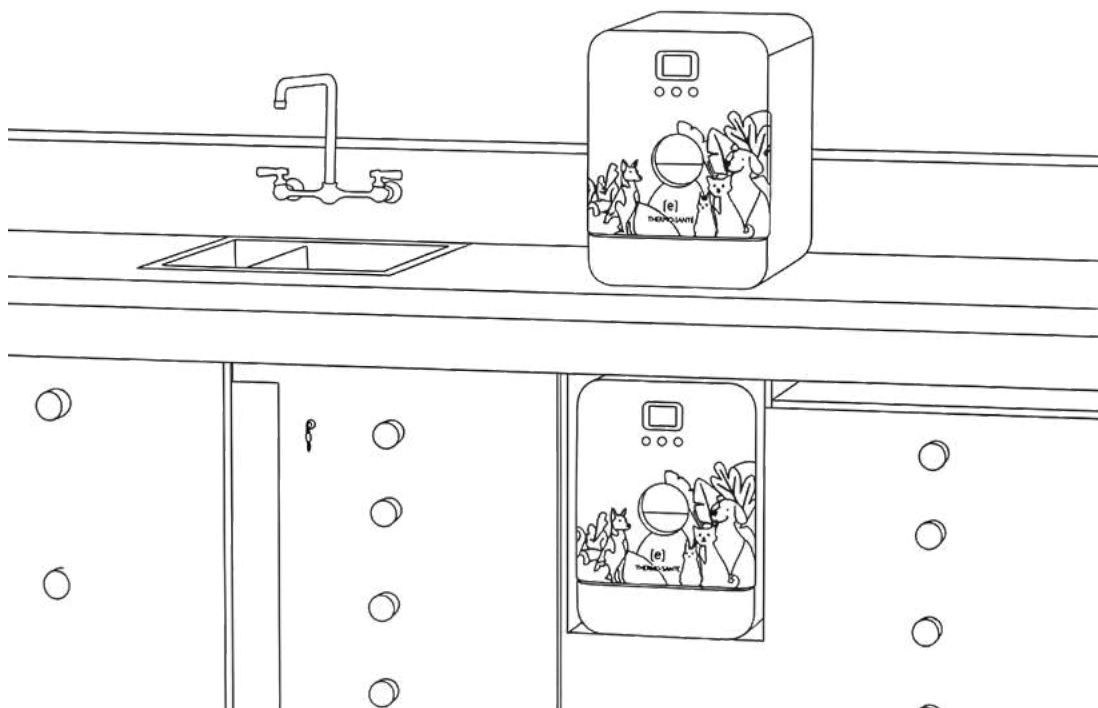
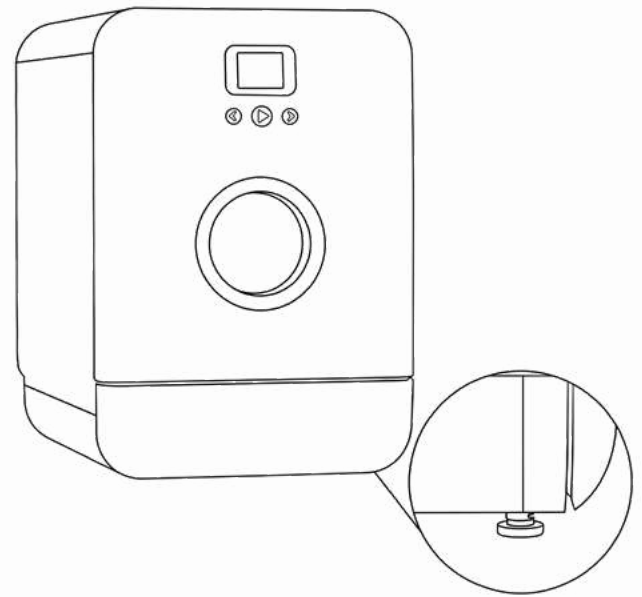
- 14 : Water drain

VII. INSTALLATION

Set up the thermal washer on a flat, stable surface that can handle water—some splashing may occur when unloading baskets and accessories.

Make sure nothing blocks the area in front of the door, so it can open automatically without obstruction.

If needed, adjust the thermal washer level using the four adjustable feet underneath the unit, up to +1cm.



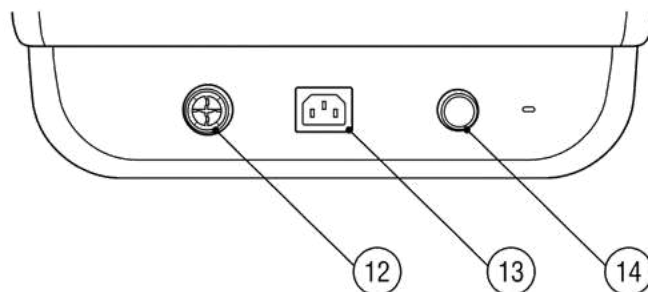
The thermal washer can be set up **on a countertop** or **built into** cabinetry: :

- **Under a countertop:** Make sure there's enough airflow around the unit. Steam released at the end of a cycle, when the door opens, can eventually damage some furniture. The drain pump can remove wastewater up to a height of 1.20m.
- **On a shelf:** If you're placing the unit up high, be sure the shelf can support at least 55 kg.

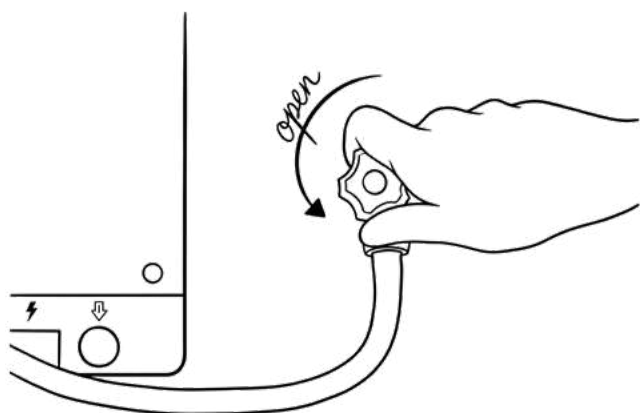
A. CONNECTING TO THE WATER SUPPLY

After screwing it onto the back of the thermal washer (water inlet No. 12 in the diagram above), connect the hose to a water supply or a tap using the 19 mm (¾ inch) threaded fitting. Ensure that the connections at both ends of the hose are tightened securely.

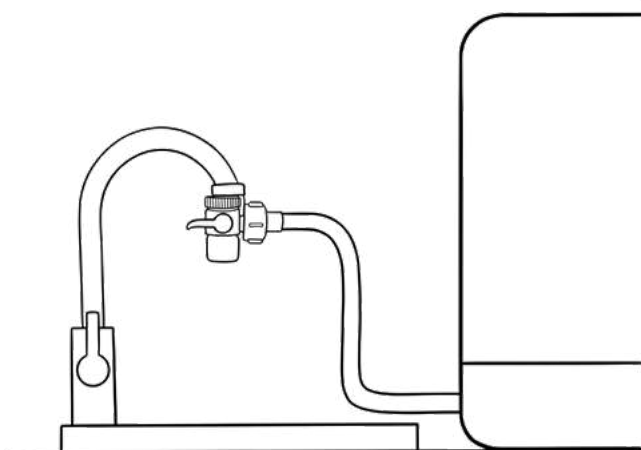
WARNING: Close the water supply tap after each use of the thermal washer.



TWO OPTIONS FOR CONNECTING TO THE WATER SUPPLY



OPTION 1:
WATER INLET



OPTION 2:
FAUCET DIVERTER (EASYTAP)

CHECKING YOUR WATER HARDNESS BEFORE FIRST USE



IMPORTANT:

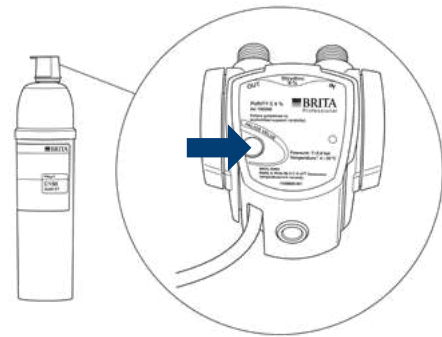
A water hardness test is supplied with each thermal washer. It allows you to determine the carbonate hardness of your water.

To do this, follow the instructions provided with the hardness test kit.

INSTALLING A WATER SOFTENER KIT

If—and only if—your water has a carbonate hardness higher than 8° KH, you must install a water softener kit between your water supply and the thermal washer.

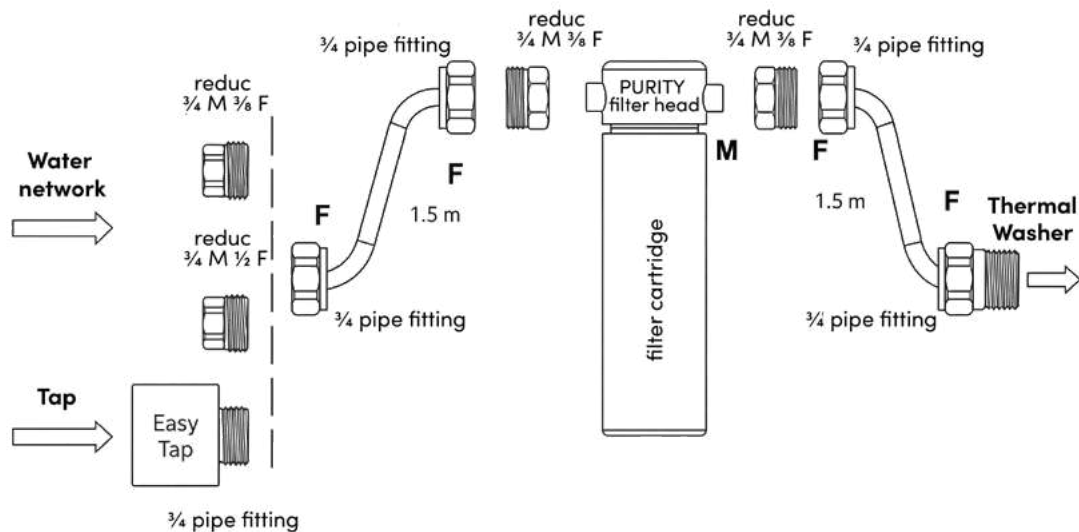
This step is crucial to ensure optimal washing and drying performance.



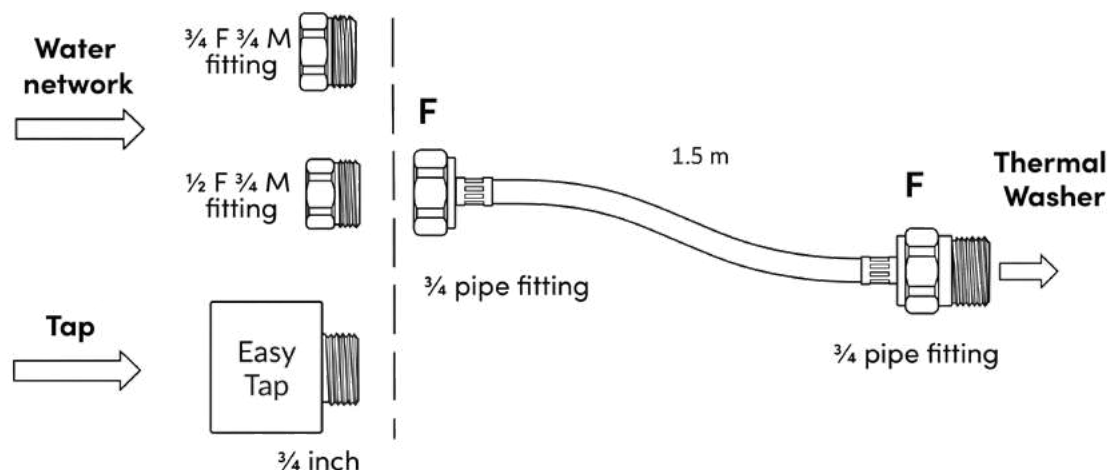
IMPORTANT: During initial startup, the filter is empty and must be filled with water.

To do this, open the flushing valve (indicated by a blue arrow in the diagram above) and purge the filtration system until filtered water flows from the small gray tube.

CONNECTION DIAGRAM: THERMAL WASHER WITH SOFTENER KIT



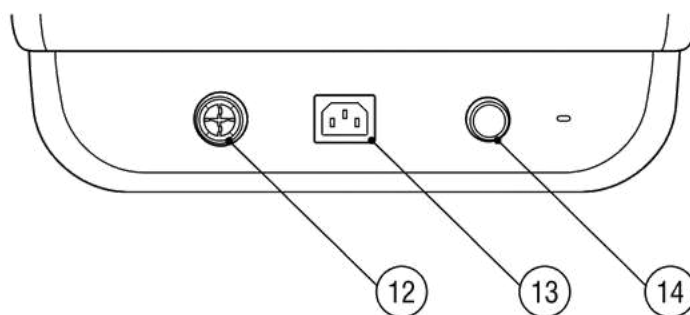
CONNECTION DIAGRAM: THERMAL WASHER WITHOUT SOFTENER KIT



REMINDER: A water softener kit is required between the water supply and the washer for water with carbonate hardness above 8° KH.

Need to get a **WATER SOFTENER KIT**?
Contact us by email at: sav@daan.tech

B. CONNECTING TO THE POWER SUPPLY

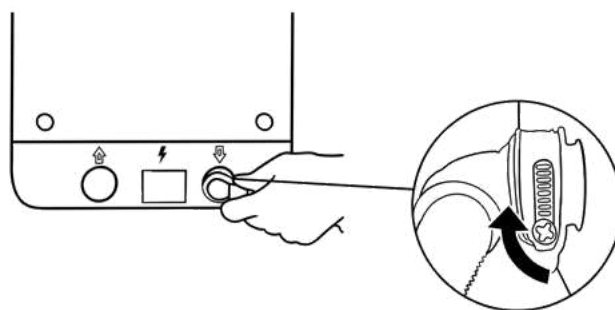
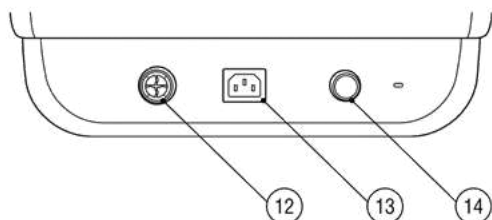


Make sure to turn off the power before installing the thermal washer. Connect the power cable to the back of the thermal washer (see number 13 in the diagram above), and plug it into a 220–240V 50Hz outlet protected by a 16A circuit breaker.

Before connecting anything, confirm that the voltage listed on the appliance's rating plate matches your power supply. The thermal washer must always be properly grounded. The manufacturer cannot be held responsible for any damage caused by improper grounding.

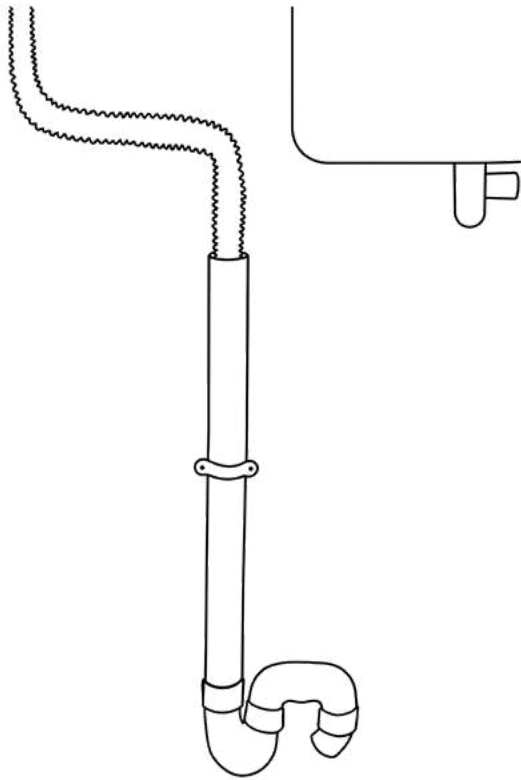
Never unplug by pulling on the power cord; always grip the plug itself. Keep the unit away from heat sources. Double-check all electrical and water connections before starting up.

C. DRAINING WATER



Connect the drain hose to the back of the thermal washer (see number 14 in the diagram above) using the included hose clamp.

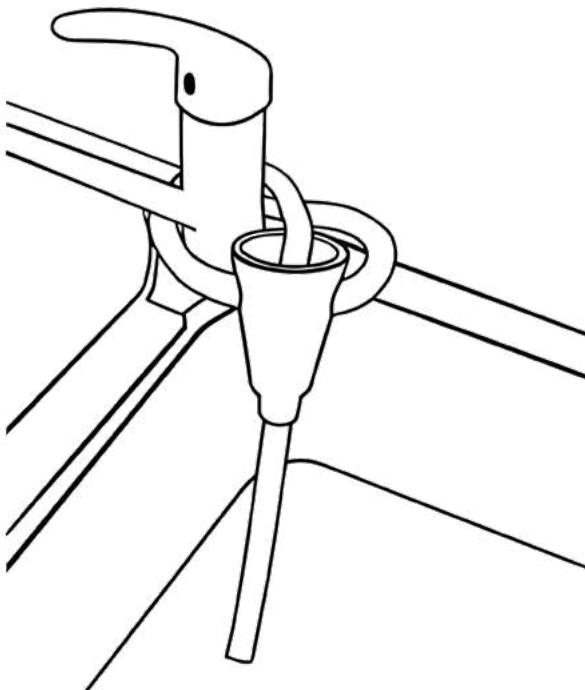
TWO METHODS FOR DRAINING WATER



OPTION 1:

DRAIN INTO A TRAP

Connect the drain hose to a wastewater trap (usually found under a sink).



OPTION 2:

DRAINING INTO A SINK

Place the drain hose directly into your sink and secure it using the provided locking system.

WARNING: Wastewater from the thermal washer can reach high temperatures (up to 80°C).

VIII. CLEANING AND MAINTENANCE REFILLS

There are several types of detergent refills available:

WASH REFILL

This device only operates with Daan Tech detergent refills. Inserting a refill is required to start a cycle. Each refill has enough detergent for 20 cycles, and the remaining number of wash cycles is shown on the screen.

MAINTENANCE REFILL

Each maintenance refill features a concentrated formula that thoroughly cleans your thermal washer and removes limescale to prevent any damage, helping extend its lifespan. Your device will prompt you to use this refill every three wash refills (after 60 wash cycles).

REGENERATION REFILL

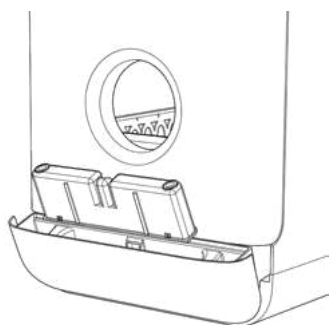
A regeneration refill brings your stainless-steel instruments back to their original shine. Always use only Daan Tech products; never substitute with other chemicals.

HOW TO INSTALL THE REFILL IN THE WASHER-DISINFECTOR



Step 1:

Place your hands on each side of the thermal washer's base panel, then tilt it in one smooth motion to open it



Step 2:

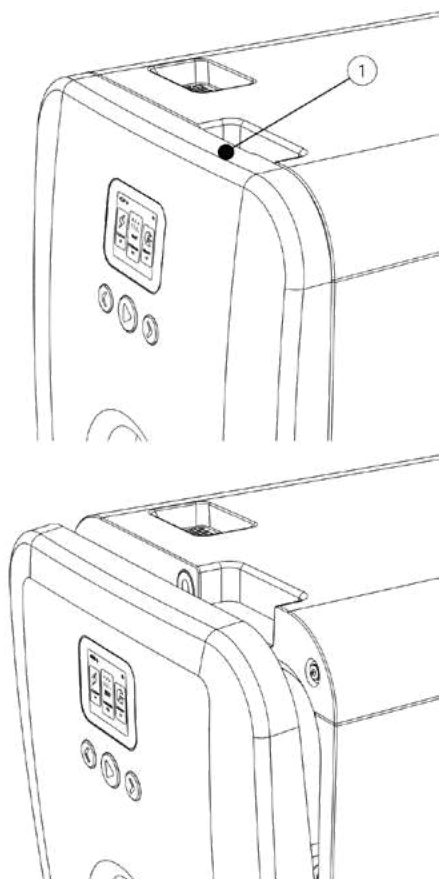
Grab the detergent refill and insert it with the text facing you



Step 3:

Next, snap the refill into place until you hear a click

IX. FIRST-TIME STARTUP



OPENING THE DOOR

1: Touch sensor area for door opening

Just place your hand on the top edge of the door and it will open automatically.

To prevent accidental openings, the touch sensor is disabled for 3 seconds after each door closure.

If the thermal washer is unplugged, pull firmly on the handle until the door opens.

USER INTERFACE

1: Number of remaining cycles in the product refill (when there are 3 cycles left, the color turns orange; with 1 cycle left, it turns red, signaling it's almost time to change the refill)

2: Cycle carousel

3: Warning icon

4: Cycle duration

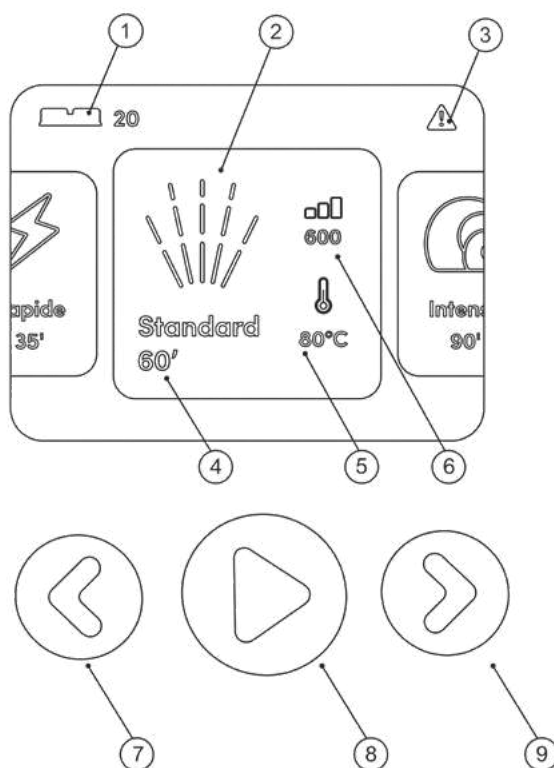
5: Cycle temperature

6: Cycle A0 Index

7: Navigate Left

8: Wake up the thermal washer / Start a cycle / Pause a cycle / Confirm selection

9: Navigate Right



X. AVAILABLE PROGRAMS LIST

PROGRAM ICON					
PROGRAM NAME	Quick	Standard	Intensive	Instrument Restoration	Cycle Maintenance
USE	Wash without disinfection (e.g., containers, trays, etc.)	Cleaning for soiled instruments	Cleaning for heavily soiled instruments	Stainless steel instrument cleaning to bring back shine	Machine Cleaning
CYCLE DURATION	35 min	60 min	90 min	210 min	180 min
DISINFECTION LEVEL	X	A0 600	A0 600	X	X
WATER CONSUMPTION	5 L	5 L	5 L	3,9 L	5,2 L
CYCLE DESCRIPTION	Pre-wash 5 min 20°C Wash 14 min 60°C Rinse 3 min 20°C Final rinse 8 min 60°C	Pre-wash 5 min 20°C Wash 27 min 60°C Rinse 3 min 20°C Disinfection 20 min 83°C	Pre-wash 5 min 20°C Wash 57 min 60°C Rinse 3 min 20°C Disinfection 20 min 83°C		Wash 60°C Rinse 70°C
CHEMICALS	Refill detergent	Refill detergent	Refill detergent	Instrument Regeneration Refill	Maintenance Refill
ELECTRICAL CONSUMPTION	0.32 kWh	0.51 kWh	0.57 kWh	0.35 kWh	0.32 kWh

SELECTING AND RUNNING A PROGRAM

- Choose the program that best fits the amount and type of dirt—whether it’s lightly or heavily embedded.
- Start the cycle.
- The display shows the current cycle step, remaining time, and any alert messages as they happen.
- When the cycle finishes successfully, a green light turns on inside the chamber.
- **If there’s a problem, the chamber lights up red and an alert message appears on the screen: see the ALARMS AND ERROR MESSAGES table on page 22.**
- The door automatically opens for the drying stage.
- When the cycle ends, a sound signal is emitted.

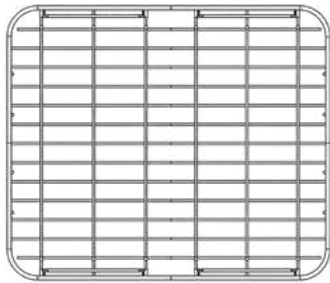
XI. BASKET AND ACCESSORIES SETUP

Only use the baskets and supports provided with the device:

Main stainless steel basket



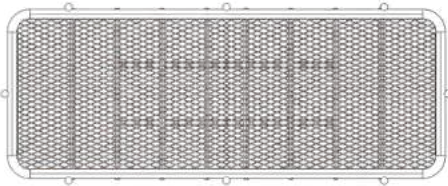
Perspective view



Bottom view



Perspective view



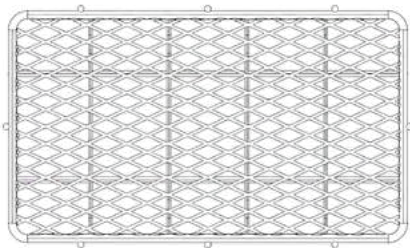
Bottom view

Stainless steel instrument basket accessory

Stainless Steel Clamp Basket Accessory



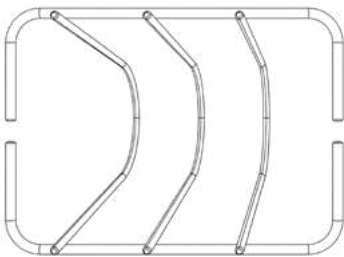
Perspective view



Bottom view



Perspective view



Bottom view

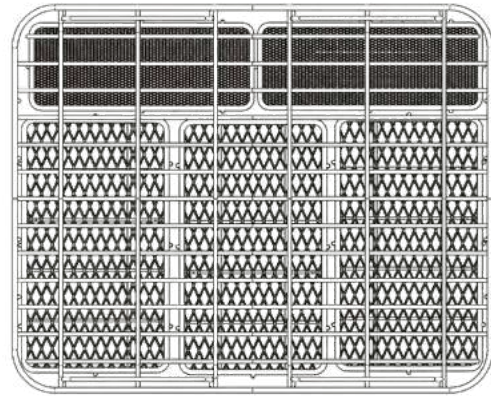
Tray holder

EXAMPLES OF HOW TO LOAD THE STAINLESS STEEL BASKET WITH ACCESSORIES

- Arrange instruments in an open position so that all contaminated surfaces are exposed for cleaning.
- Do not overload the baskets and make sure instruments do not overlap.
- After loading, check that the spray arm can rotate freely.

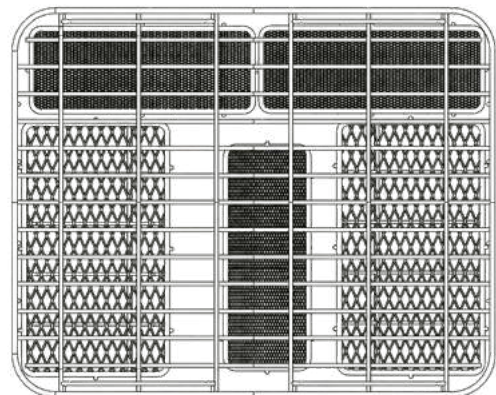
Loading Example 1

- 1x stainless steel main basket
- 2x stainless steel instrument basket accessories
- 3x stainless steel clamp basket accessories



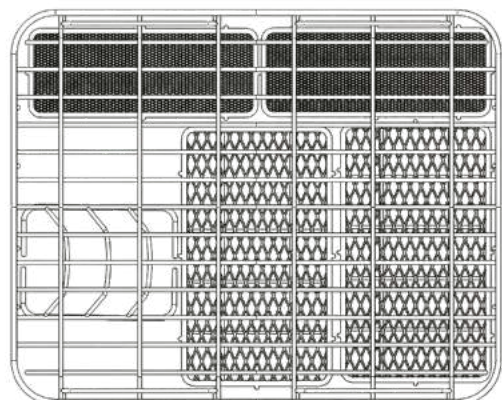
Loading Example 2

- 1x main stainless steel basket
- 3x stainless steel instrument basket accessories
- 2x stainless steel clamp basket accessories



Loading Example 3

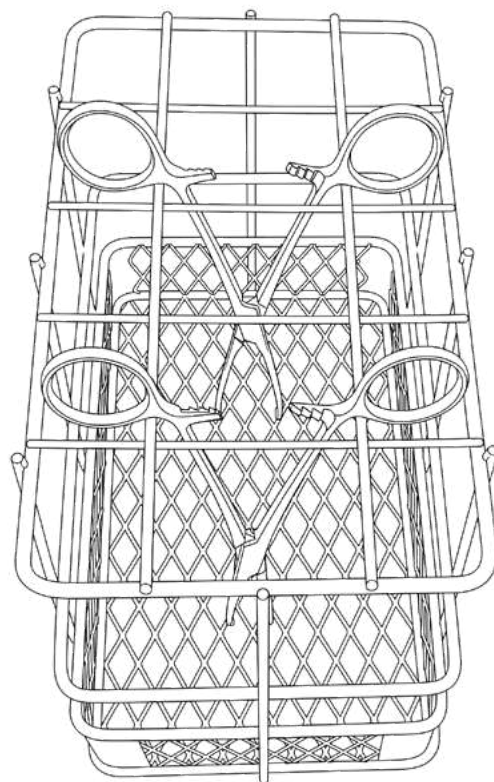
- 1x main stainless steel basket
- 2x stainless steel instrument basket accessories
- 2x stainless steel clamp basket accessories
- 1x tray holder accessory



Cleaning of surgical forceps

To ensure the highest washing quality, use the stainless steel “forceps basket” accessory and follow these instructions:

- 1: Open the forceps as wide as possible.
- 2: Place them in the basket with the tips pointing downward.



How to install the “tray holder” in the main basket:

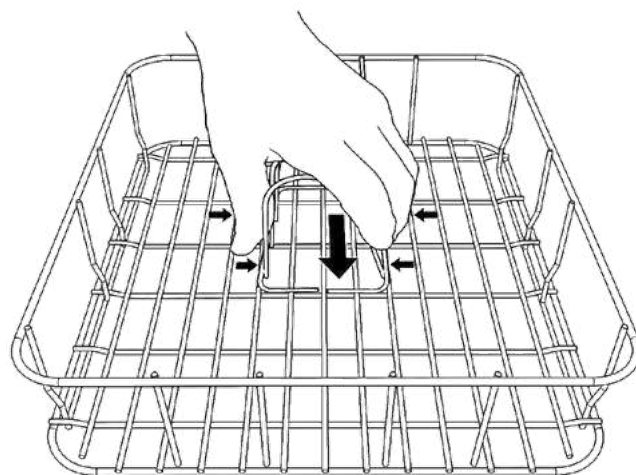
To ensure the highest washing quality, use the stainless steel “forceps basket” accessory and follow these instructions:

1. Pinch the holder:

Take hold of the tray holder and gently compress it along the ribs.

2. Lock the position:

Insert it into the main basket and release the pressure. Its ends will then clip into place and lock into the stainless steel mesh.



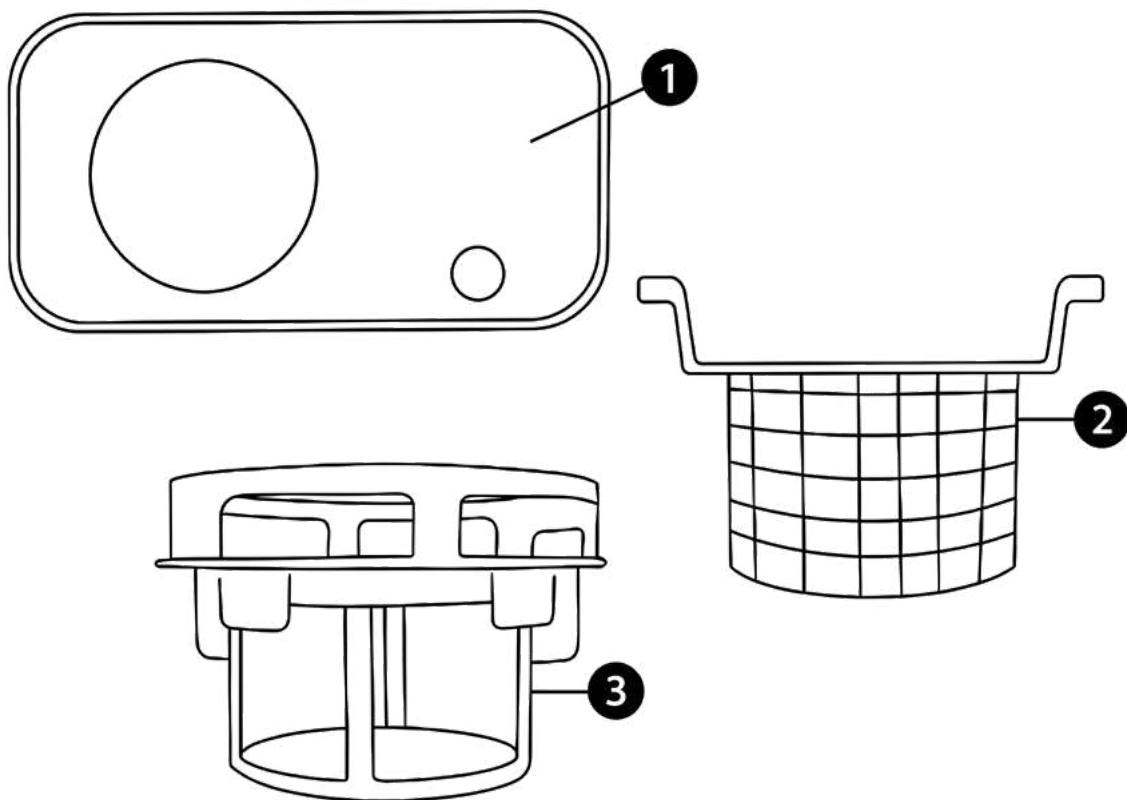
Scan
to watch
the video

XII. MAINTENANCE AND UPKEEP

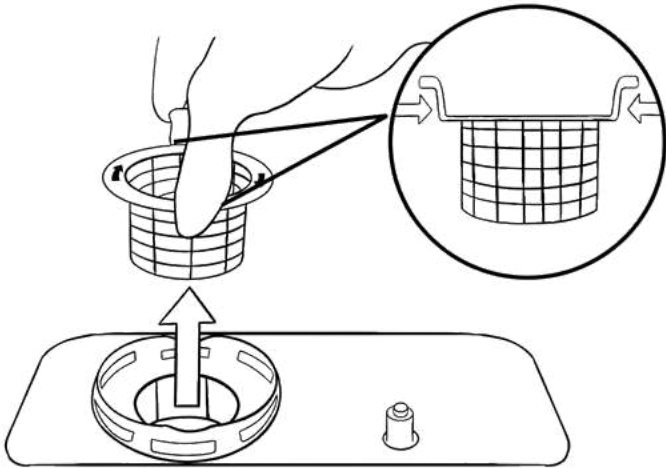
Unplug the device before starting any cleaning procedure.

Tasks	Frequency
Filter Cleaning	Weekly
Inspect seals and clean the exterior	Weekly
Run an empty cycle with cleaning solution	Every 60 wash cycles
Inspect the spray (wash) arm	Monthly
Check the condition of the heating plate	Every 60 wash cycles

FILTER CLEANING



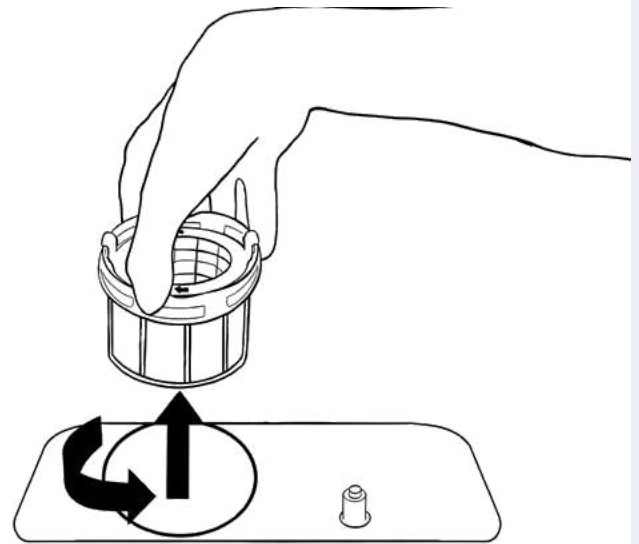
1: Main stainless steel filter 2: Large debris filter 3: Micro-filter



Step 1 :

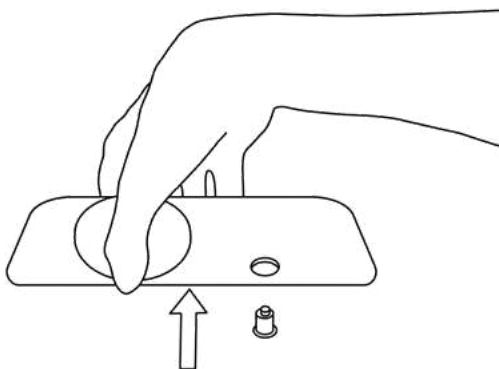
Grab the coarse waste filter with one hand using its two handles.

Dispose of the waste in the trash, rinse the coarse waste filter under clean water, and place it back.



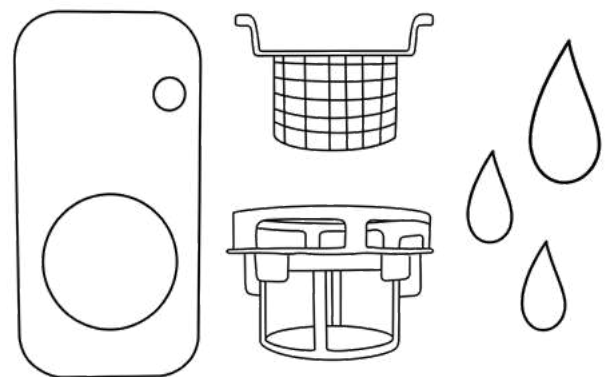
Step 2 :

Turn the Micro-filter counterclockwise to unlock the Micro-filter / Coarse filter assembly.



Step 3 :

Also remove the stainless steel filter.



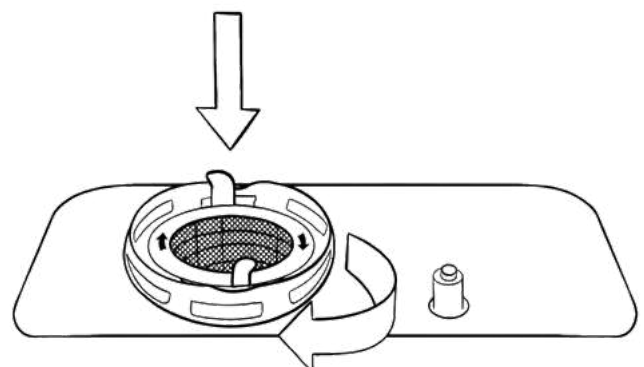
Step 4 :

Clean all three filters under running tap water using a soft-bristled brush.

Step 5 :

Put the stainless steel filter and the Micro-filter/Gross debris filter assembly back in, turning clockwise until it locks into place.

WARNING: never run a cycle without the filters installed.

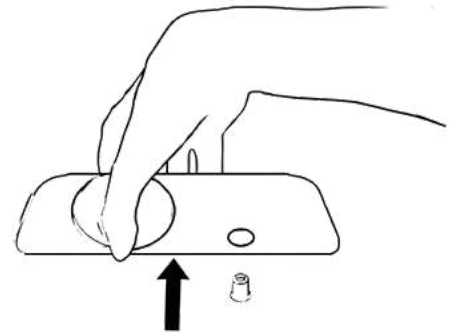
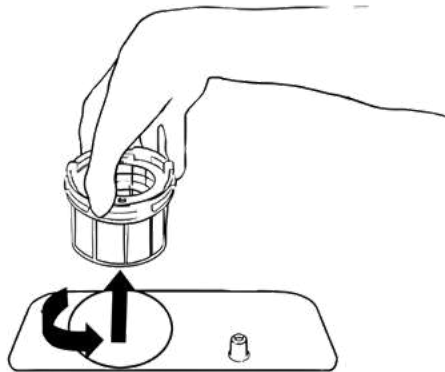


HEATER DISK CLEANING

If the heating disc becomes dirty, make sure to clean it thoroughly to maintain optimal washing performance.

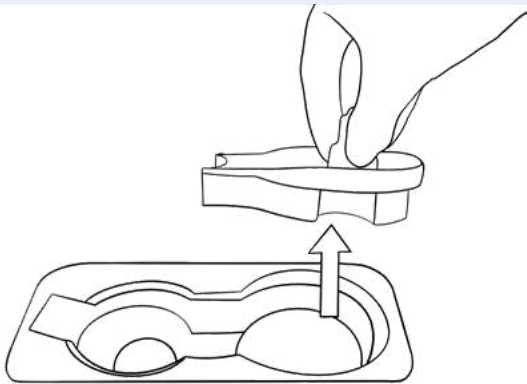
Step 1 :

Remove the entire "filtration system"



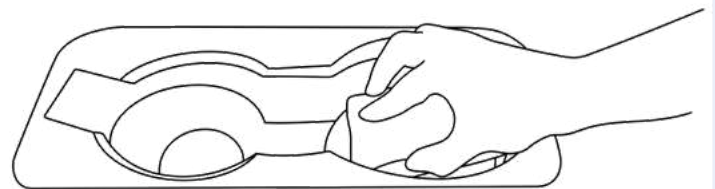
Step 2 :

Remove the heating disk's protective cover and clean it thoroughly.



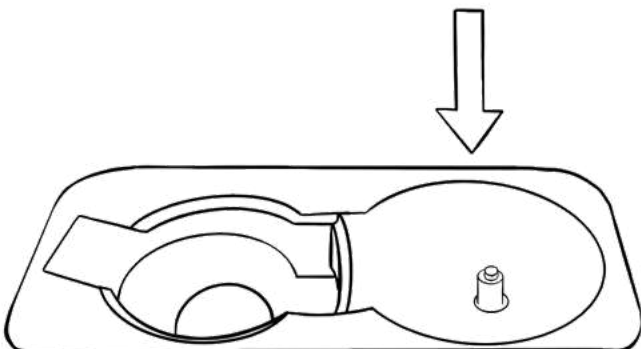
Step 3 :

Once you have access to the heating disk, wipe it gently with a non-abrasive sponge.



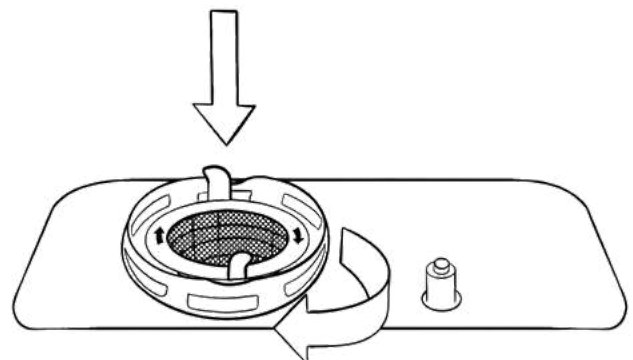
Step 4 :

Put the protective cover back in place.



Step 5 :

Reinstall the filter system.



XIII. ALARMS AND ERROR MESSAGES

Error message	Error code	Description and/or Recommended Actions
NTC	11	Temperature sensor error. Please contact customer support.
A0_NOT_REACH	12	Disinfection level not reached. Load has not been disinfected. Restart a complete cycle. If the issue continues, contact customer support.
HEATING_COOLING	13	Heating malfunction. Please contact customer support.
HEATING_HOVERSHOOT	14	Heating malfunction. Please contact customer support.
NO_WATER_DETECTION	21	Water supply error. Your faucet may be closed.
FILLING_TIMEOUT	22	Filling time too long. Water pressure too low. Check your water supply.
WATER_DETECTION	23	Solenoid valve error. Please contact customer support.
RESERVOIR_FULL	24	Maximum water level reached. Drain the machine.
PUMP_A_HS	31	Peristaltic pump mp error. Please contact customer support.
PUMP_A_CONTINUOUS	32	Power board error. Please contact customer support.
PUMP_A_BLOCKED	33	Peristaltic pump error. Please contact customer support.
PUMP_A_NO_PRODUCT	34	No detergent detected. Contact customer support.
PUMP_B_HS	41	Peristaltic pump error. Please contact customer support.
PUMP_B_CONTINUOUS	42	Power board error. Please contact customer support.
PUMP_B_BLOCKED	43	Peristaltic pump error. Please contact customer support.
PUMP_B_NO_PRODUCT	44	No rinse aid detected. Contact customer support.
FILL_PUMP_HS	51	Filling pump error. Please contact customer support.
FILL_PUMP_CONTINUOUS	52	Power board error. Please contact customer support.
FILL_PUMP_BLOCKED	53	Filling pump error. Please contact customer support.
FILL_PUMP_NO_WATER	54	Filling pump error. Please contact customer support.
DOOR_OPEN_IN_CYCLE	61	Door opened during cycle. Disinfection cycle interrupted. Please restart a full cycle.
DOOR_NOT_OPENED	62	Door sensor error. Please contact customer support.
CODE_ELECTROMAGNET	63	Electromagnet error. Please contact customer support.
CODE_SHUTDOWN	71	The device stopped unexpectedly during its cycle. Load has not been disinfected. Please drain the device.
FILTRATION_NEEDED	81	Your water hardness is above 8°KH. A SOFTENER KIT system is required (see page 10)
FILTER_OUT_OF_DATE	82	“KIT SOFTENER” filtration system saturated. Replace the unit.
MAINTENANCE_NEEDED	83	Maintenance recharge required (see page 14)
LED_HS	91	LED lighting error. Please contact customer support.

XIV. USAGE AND STORAGE CONDITIONS

- Room temperature: +41°F to +95°F.
- Supply water: Only use fresh water (hardness <8 KH) or softened water to prevent limescale and ensure optimal cleaning.
- For long-term storage: run an empty cycle with maintenance product and leave the door slightly open.

XV. END OF LIFE

Drain the device before disposal using the dedicated function in the device's settings.

Recycle in accordance with WEEE regulations.

Chemicals must be disposed of following local guidelines.

Daan Technologies is committed to collecting end-of-life thermal washers for refurbishment and reuse.

For more information, reach out to us at: sav@daan.tech

ManualReference:THL-V1-20.04.2026

The Daan Tech Medical thermal washer provides **thorough cleaning** and **disinfection** of reusable veterinary medical devices while strictly following hygiene and traceability protocols.

This guide covers the key steps for installing, operating, and maintaining the equipment.

To view the complete documentation, technical resources, and updates, simply scan the QR code to access the dedicated platform.

