

# X5 Granule

User Manual



serial: X5G 02 00001



**NOR:DISK**  
CLEAN SOLUTIONS

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Art. no EN29610

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**Manufacturer:**

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This Declaration of Conformity is issued under our responsibility as the manufacturer.

**Object of the declaration:** Commercial dishwasher

**Model/type:** X5 Granule

**Serial number range and explanation:** X5G 02 XXXXX X5G= model 02= hardware version  
XXXXX= sequential number

**This Declaration of Conformity is valid from serial number:** X5G 02 00001

**Ratings:** 17.5kW 3 ~ 400-415V 50Hz

**As delivered, the object of the declaration conforms to the applicable requirements of:**

2006/42/EC – Machinery Directive	Safe design and construction
2012/19/EU – WEEE Directive	Waste Electrical and Electronic Equipment
2011/65/EU – RoHS Directive	Restriction of Hazardous Substances in electrical and electronic equipment
2014/30/EU – EMC Directive	Electromagnetic Compatibility

**The conformity of this object is tested and verified to fulfill all relevant provisions of the Directives above. The following standards were used in the conformity assessment procedure:**

Issued by NCB: **Intertek SEMKO AB** Torshamnsgatan 43 SE-164 22 Kista SWEDEN

**CB- test Certificate:** SE-117123

IEC 60335-1:2010+ A1+ A2

Date: 23 July 2025

IEC 60335-2-58: 2002+ A1+ A2

**Test Verification of Conformity**

2506212- LOC- VOC

Date: 23 July 2025

EN 60335-1:2012+ A11:2014+ A13:2017+ A1:2019+ A14:2019+

A2:2019+ A15:2021+ A16:2023

EN 60335-2-58:2005+ A1:2008+ A11:2010+ A2:2015+ A12:2016

**EMC test report:** 2407426STO-101

EN IEC 61000-6-1:2019

Date: 18 November 2024

EN IEC 61000-6-3:2021

Issued by: **RISE** Research Institutes of Sweden AB Box 5401 402 29 Gothenburg

**Microbiological Certificate**

EN 17735:2023

report No P123124

Date: 2 December 2024

The object of the declaration is manufactured in accordance with EN 1717 and is fitted with a backflow preventer, Family A Type B, in accordance with EN 13077: 2023. The EMF is measured in accordance with EN 62233: 2008.

**The undersigned hereby declares that the product described above meets the essential requirements of the stated directives and standards:**

**Signature:**

*Pontus Nordfeldt*

**Date and place:** 2025-07-01

**Name:** Pontus Nordfeldt

**Position:** BU Manager, Granule Technology

**E-Mail:** pontus.nordfeldt@nordiskclean.com

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# 1 General Description and Safety

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## 1.1 To the user

Thank you for purchasing and for using a Nor:disk Clean Solutions product. This manual is your guide on how to safely operate your X5 Granule.

The X5 Granule is a commercial dish washer designed to use granules to clean pots and pans as well as it is designed to clean cutlery, flatware and glasses without the use of granules.



### NOTE

*It is important that you read this manual and that you understand the instructions on how to use this machine in a safe and correct way. You must always obey the safety instructions that is stated in this manual. The safety instructions are written for your safety, the persons nearby, and also to keep the machinery from miss use.*

*At all times – Obey the safety instructions – They are written to keep safety and to avoid accidents.*

Nor:disk Clean Solutions accepts no responsibility for damage to the equipment or other damage or injury caused by not following the directions in this manual.

Since this is a professional machine it is recommended that the operator receives training to learn how to operate the X5 Granule.

If you seek further information about operators training or manuals you will find this and more on Nor:disk Clean Solutions web page: [Nor:disk Clean Solutions](#) on our [Youtube channel](#) you will find user tutorials, accessory tutorials, customer case videos, and webinars.

Also there is a sticker with a QR code placed on the machine's front. Scan this with the camera on your mobile phone and get direct access to machine specific information and manuals (see chapter about SIMpel in this manual).

Educate the personnel on how to operate the machine and inform them about the safety notes. Repeat the training sessions at regular intervals to prevent accidents.

Ensure that this manual is always available during the machine's lifetime.

User manual in Original

## 1.2 Notes and Warnings

This machine is CE marked, which means that it meets the requirements of the EU Machine Directive regarding product safety. Product safety means that the machine has a design that will prevent personal injury or property damage. Therefore do not modify or replace parts of the machinery since this will void the manufacturer's product- liability.



### *ELECTRICAL*

*Appliance shall be disconnected from its power source during maintenance and when replacing parts.*

Children being supervised not to play with the appliance.

Do not place any items on top of the hood. There is no stop of upward motion. If items block the hood the equipment could get damaged.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.



### *WARNING*

*The machine uses hot water. Avoid contact with the skin as there is a scalding risk!*

There is a risk of slipping if granules are left on the floor.

## 1.3 Safety and Operational Warnings

Read the safety notes and operating instructions in this manual carefully. Only use the dish washer after you have read and understood the user manual.

Keep this user manual for future reference. Nor:disk Clean Solutions does not assume liability or warranty in case of non-adherence to these safety and operating instructions.

The X5 Granule automatically detects when the pro wash basket is used. The pro wash basket is designed to hold pots and pans therefore the only wash options available together with the Pro Wash basket are granules or powerful water cleaning. Never use the pro wash basket for wash ware that will be smashed into pieces.

Regarding the handling and use of detergent and rinse aid with the product, please see the chemical manufacturer's instructions. Always wear eye protection and gloves when handling these chemicals.

For your safety, test the local fault current circuit breaker (FI) regularly by pressing the test button.



### NOTE

*Switch off the local power supply when the work day is done. Also at the same time close the on-site water shut-off valve.*

## 1.4 SIMpel

A quick way to find operating instructions and additional user related information there is a sticker with a QR code on the machine. This QR code is a direct link to machine specific information such as manuals, also contact information to your service partner.



- 1 Scan the QR code on the sticker.



- 2 When you scan the QR code, you enter the following menu.





- 3 Select the language in the upper right corner. English is the default language.

**Explanation of the different boxes:**

1. CALL OUT REQUEST	Make a service call on the machine
2. VIDEO AND DOCUMENTATION	User manuals and videos of accessories/ daily cleaning
3. TECHNICIAN AREA	Only for Technicians/Service Partners
4. CODES AND INFORMATION	List of error codes
5. ABOUT NOR:DISK	Link to our website
6. CONTACT INFORMATION	Contact information to a service partner

## 1.5 Granules



### WARNING

*If Power granules Original catch fire there is a risk that gases hazardous to health could form.*

*Suitable extinguishing media: Carbon dioxide (CO<sub>2</sub>)*

Following applies to Power granules BIO — ACTIONS IN CASE OF FIRE: Suitable extinguishing media: water, foam, dry powder or carbon dioxide. Hazardous substances may form if there is a fire. Under special fire conditions traces of other toxic substances are possible. Wear prescribed personal protective equipment and breathing apparatus. Fight fire in the usual way at a safe distance

We have two different types of granules. PowerGranules Original and PowerGranules BIO®. The sustainable choice of granules are the PowerGranules BIO® since they are partly biodegradable.

Please follow the recommended exchange of granules communicated by the interface (a message will be displayed every 2 500 Granule cycles for PowerGranules Original and every 1600 cycle for PowerGranules BIO®).

Worn out granules should be handled as combustible waste.

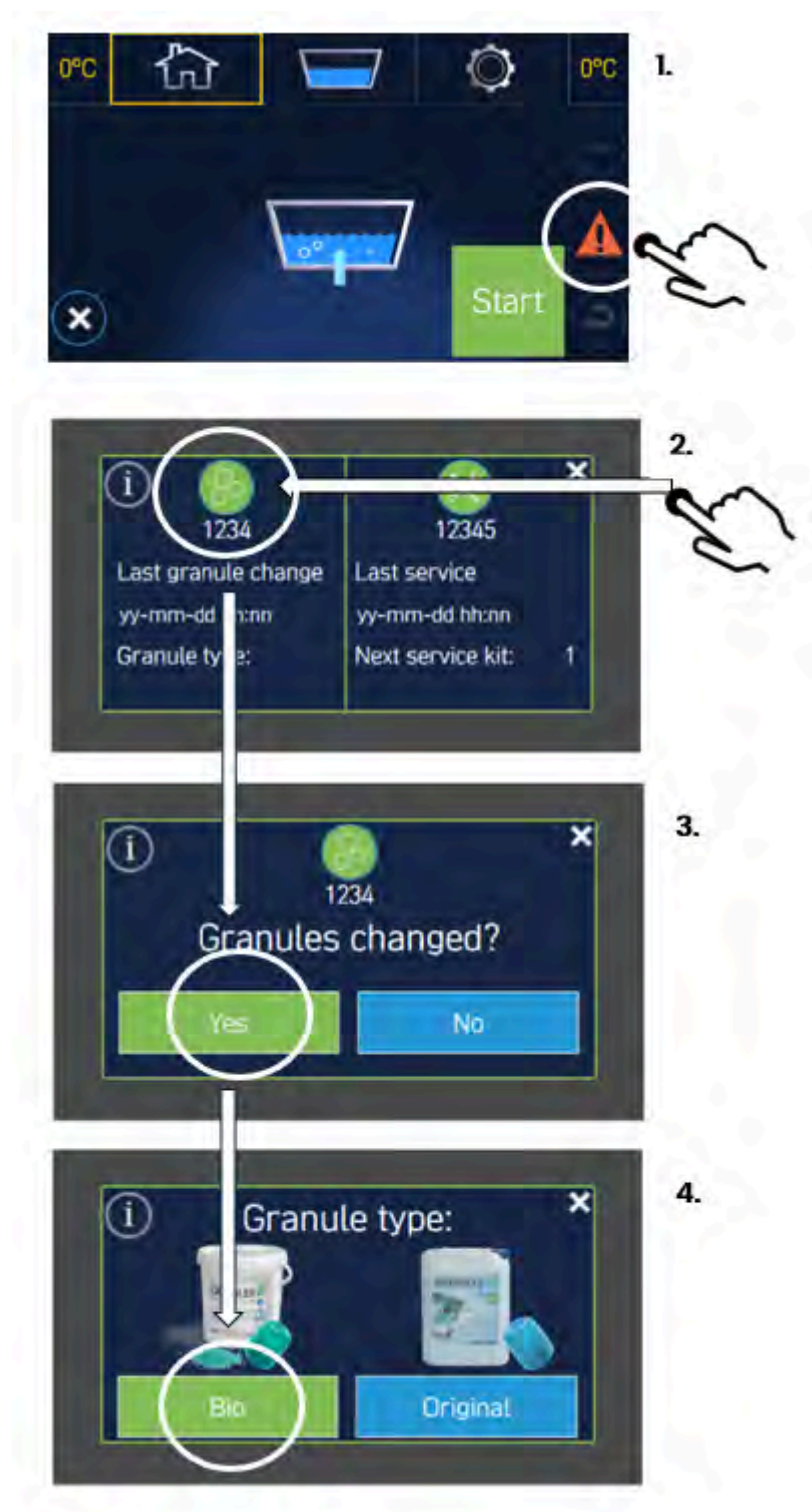


Fig. 1 How to reset granule counter

## 2 User interface

### 2.1 Overview

The machine must be switched ON or OFF at the power source connection point.

Use the touch screen to operate the X5 Granule.



START MENU — with possibility to start fill and heat, open tank menu or settings menu.

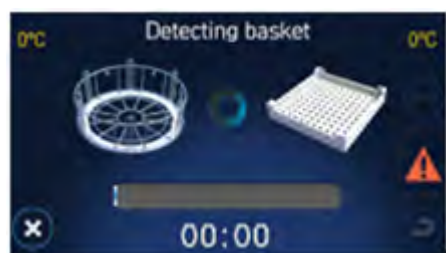


FILL AND HEAT — Shows the progress of the water fill and the temperature of the water raises.



READY

This is the screen shown when the machine is in ready/standby state. It contains the wash options to be selected.



BASKET DETECTION

The Pro wash basket triggers granule wash and ware wash options. The square basket triggers only and exclusively the fine wash option.



### DRAIN

Use to empty the water tank.

### DRAIN WITH CLEAN

A clean is included in the option empty the water tank



### CHANGE WATER

Changes the used water to fresh water without cleaning.

### DRAIN

Drains the water from the tank.



### CLEANANDCHANGE

Time to change the water in the tank. Choose either change water or change water and clean the tank. Time added for clean is shown.

## 2.2 Start up instruction

Switch the power ON and OPEN the water supply for the machine..

Start the fill and heat process by pressing Start.



The machine starts to fill the tanks with water that heats until the correct wash temperature is reached.

The fill and heat procedure takes about 9 minutes (+55 °C connection).

If the hood is in raised position, it will close automatically before the water starts to fill the tank.



This interface is shown when the machine is ready to wash. Select your wash option with a touch.

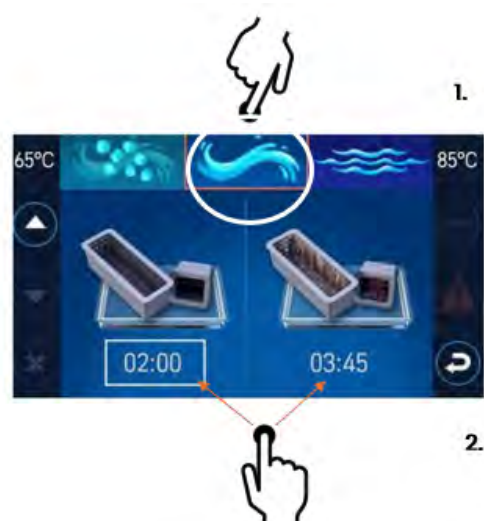


**Wash with granules selected.**

Use for pots and pans



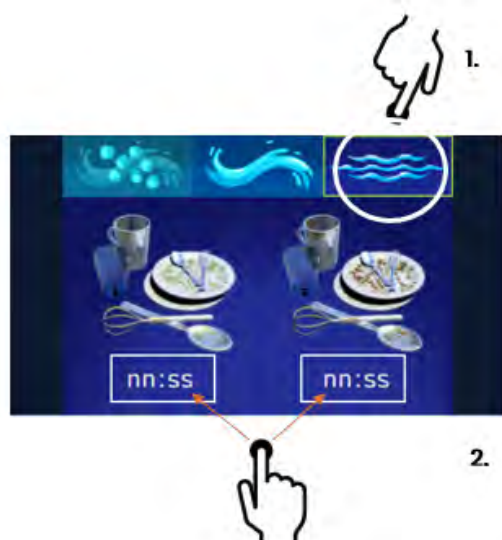
Choose between 2 wash programs

**Wash without granules selected**

Use for pots and pans.



Choose between 2 wash programs

**Wash with fine wash selected**

Use for wash ware, cutlery and glasses.



Choose between 2 wash programs

## 2.3 Preparations

Choose the duration of the wash program depending on the amount of food residues that is left on the wash ware

- 1 Empty and scrape off all food residues before loading the utensils

See Fig. 2 *Scrape off food*

- No soaking or scrubbing is needed.
- No usage of hand-soap or similar (to avoid foaming which could lead to extended problems).



Fig. 2 *Scrape off food*

- 2 All utensils must be placed in the basket with their inside facing the spray pipes. It is important that all items are firmly in place when being washed.
- 3 When a program is chosen, a 10 seconds detection phase will follow while the machine determines which type of wash basket has been placed in the machine. This is done automatically and does not require the operator to decide whether to run a program in pot wash or in dish wash mode.
- 4 Once the wash program is complete, the hood goes up, and the machine goes into stand-by mode and shows the latest program used.



Tip!

Reuse the latest program with a kick and start. Kick'n wash



**NOTE**

*Only slightly soiled trays to be placed upside down in the bottom of the basket.*

*Check that nothing is sticking out from the basket's sides or bottom. The downward movement of the hood or basket rotation must not be hindered.*

**WARNING**

*The hood can not be opened until the wash program is complete.*



*Fig. 3 Make sure no granules are stuck*

**Inspecting the wash ware**

1. Examine the pots and pans after each program.
2. To make sure no granules are left, turn all wash ware upside down, before taking them out of the machine.
3. Remove any granules that may be stuck in corners, sharp angles and other inaccessible places.

## 2.4 Water change/Drain machine

Press icon Water change/drain machine.

See Fig. 4 *Water change/drain machine*



Fig. 4 *Water change/drain machine*

Choose water change (left)

Emptying and filling the machine again takes about X minutes on 55 °C inlet temperature.

To drain the machine at the end of the day, press icon Drain (right).

See Fig. 5 *Water change/Drain*



Fig. 5 *Water change/Drain*

## 2.5 User Settings

### Press icon User Settings (1)

4 new icons appear.

1. Settings (2)
2. Information (3)
3. HACCP data (4)
4. Technicians settings (locked for end users)(5)



See Fig. 6 User Settings

Fig. 6 User Settings

### Press icon Settings (2)

- Language
- Date & Time
- Steam reduction in operation (not recommended to change by end user)
- Steam reduction in time (not recommended to change by end user)
- Rinse aid dosage per L (not recommended to change by end user)
- Manual rinse aid dosing (not recommended to change by end user)

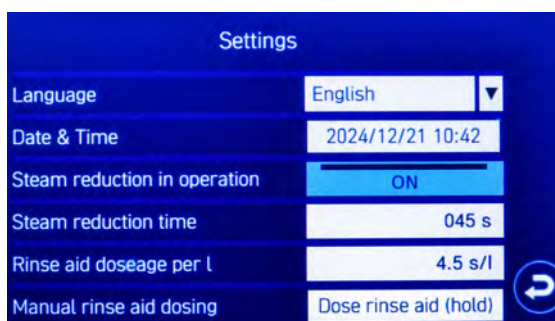


Fig. 7 Settings

### Press icon Information (3)

Here you find machine serial number, software version and contact information to Nordisk.

See Fig. 8 Machine information



Fig. 8 Machine information

**Press icon HACCP (4)**

The following data is available:

- Latest programs
- Accumulated values
- Error log

See Fig. 9 *HACCP data*

Latest programs		Accumulated		Error log		
Date & Time	Program	WTemp	RTemp	Volume	Alarm	
25-03-19 12:47:52	1	62.8	84.6	3.7	0	
25-03-19 12:43:44	0	0.0	0.0	0.0	240	
25-03-19 12:30:25	0	0.0	0.0	0.0	1	
LogID	0	<div>^</div>		<div>v</div>	Export	<div>↺</div>

Fig. 9 *HACCP data*

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## 3 How to use the baskets and other accessories

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### 3.1 Pro Wash basket

#### **Pro Wash basket (29505)**

Basket with foldable spikes, with loading possibilities for Gastronorm containers, pot and pans, as well as grids, baking sheets and cutting boards without adding extra accessories.

Capacity: 6 GN 1/1 65 mm or 3 GN 1/1 up to 200 mm + 3 GN 1/1 up to 65 mm. 2 GN 2/1 up to 100 mm, or 12 GN 1/4, 1/6, 1/9.

Capacity: 7 GN 1/1 65 mm or 3 GN 1/1 up to 200 mm + 3 GN 1/1 up to 65 mm. 2 GN 2/1 up to 100 mm, or 12 GN 1/4, 1/6, 1/9.

See Fig. 10 *Pro Wash basket*

Possible to load 12 GN containers. Choose among GN 1/4, GN 1/6, GN 1/9.

See Fig. 11 *Pro Wash basket with small GN containers*



*Fig. 10 Pro Wash basket*



*Fig. 11 Pro Wash basket with small GN containers*

Possible to load 2 GN 2/1, up to 100 mm.

See Fig. 12 *Two GN 2/1*



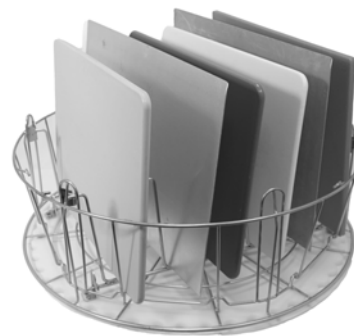
*Fig. 12 Two GN 2/1*

Unfold the spikes.

Possible to load lids, grids, baking trays and chopping boards.

Maximum 6 pieces.

See Fig. 13 *Loading of lids, grids, chopping boards and baking trays*



*Fig. 13 Loading of lids, grids, chopping boards and baking trays*

The Pro Wash basket allows to wash pots in many different sizes.

Unfold the spikes. The spikes create multiple slots for pots and pans.

Works for pots and pans with a lip around the rim of the pan.

Maximum 6 pieces.

See Fig. 14 *Loading of smaller pots*



*Fig. 14 Loading of smaller pots*



Loading of mid sized pot and big pot.

See Fig. 15 *Loading of mid sized pot and big pot*



*Fig. 15 Loading of mid sized pot and big pot*

### **Utensil basket (29495)**

To be placed inside the Pro Wash basket (29505).

For whisks, ladles etc. Height of items up to 500 mm.

6 pieces fits in a wash basket.

See Fig. 16 *Utensil basket*

See Fig. 17 *Utensil basket loaded inside Pro Wash basket*



*Fig. 16 Utensil basket*



*Fig. 17 Utensil basket loaded inside Pro Wash basket*

The Pro Wash basket is very versatile. Unfolding the spikes gives a lot of different loading options.

Mix containers, pots, pans and utensils.

See Fig. 18 *Pro Wash basket with a mix of different wash ware*



*Fig. 18 Pro Wash basket with a mix of different wash ware*



## 3.2 Accessories

### Flexible pot holder (13789)

Rubber strap with two hooks.  
Rubber strap to be placed around pot and hooked on to the basket. Be careful when fastening and releasing the rubber bands as the hooks may cause harm.

See Fig. 19 *Flexible pot holder*

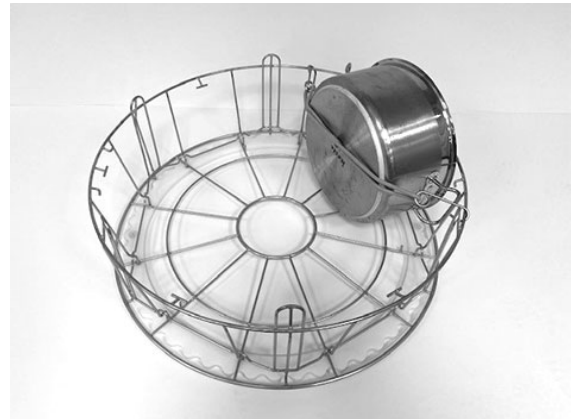


Fig. 19 *Flexible pot holder*

### Pot basket (21423)

Holds 2 large pots (200 mm) or 1 large pot (400 mm) Placed in machine instead of Standard wash basket.

See Fig. 20 *Pot basket*



Fig. 20 *Pot basket*

When placing **one** large pot in the pot basket, use one or two Flexible pot holders to fixate the pot.

Hook the rubber band as and wrap it around the pot and hook on to the bar on the other side.

See Fig. 21 *Pot basket*

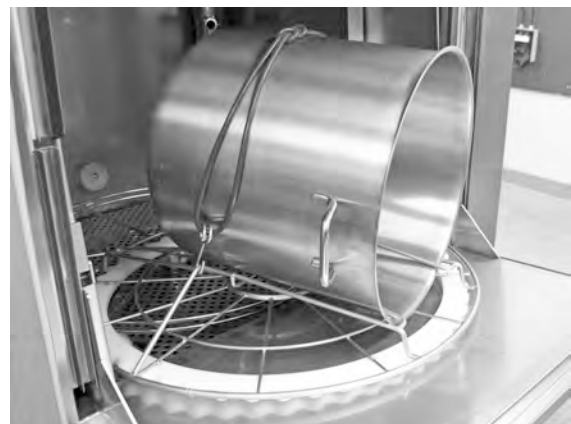


Fig. 21 *Pot basket*

**Multiflex holder for saucepans, small bowls and sieves (20554)**

To be placed inside standard wash basket (26426). Capacity: up to 3-4 saucepans or up to 4-5 small bowls, sieves etc.

See Fig. 22 *Multiflex holder*

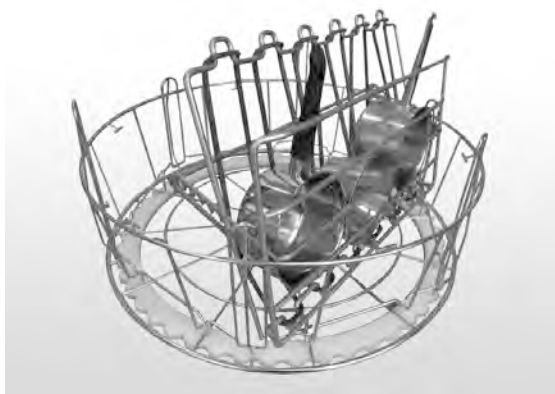


Fig. 22 Multiflex holder

**Net basket with lid (21477)**

For ladles, whisks or smaller light items.

Unfold the spikes, place the basket inside the Pro Wash basket.

See Fig. 23 *Net basket with lid*



Fig. 23 Net basket with lid

**Wash basket with bottom grid (26140)**

Same capacity as the Pro Wash basket (29505). The bottom grid prevents handles etc from slipping through the bottom of the basket.

See Fig. 24 *Wash basket with bottom grid*

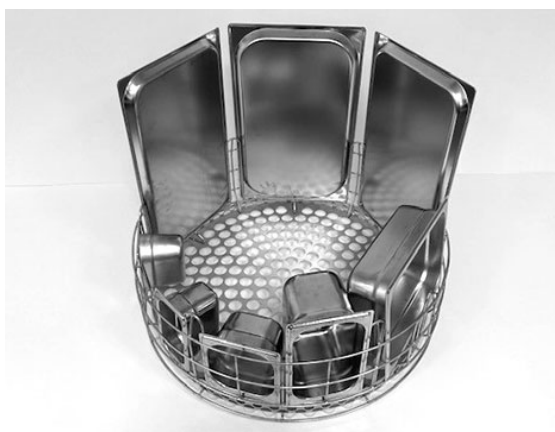


Fig. 24 Wash basket with bottom grid

## 3.3 Loading dish ware

- 1 Place the items to be washed in a 500 x 500 mm wash basket.
- 2 Rinse off any remaining bits of food.
- 3 Press the arrow button to open the hood.
- 4 Put the wash basket into position in the machine. The basket wheel is designed so that you feel when the basket is positioned correctly.

### Wash basket for plates and crockery (19882)

Wash basket for plates and crockery, 500 x 500 mm.

Capacity: 18 dinner plates or 12 soup plates

See Fig. 25 *Wash basket for plates*



Fig. 25 Wash basket for plates



#### NOTE

When washing glasses, an insert must be used to separate the glasses.

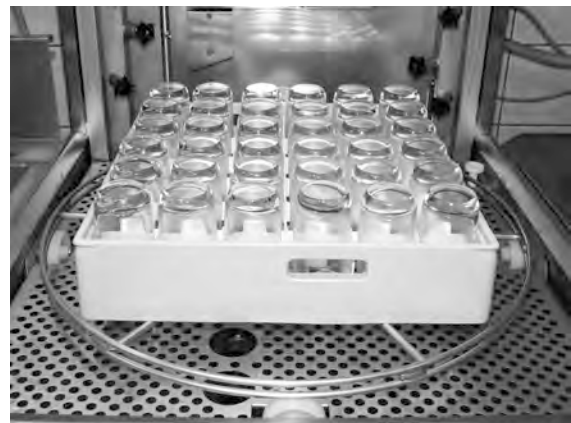


Fig. 26 Washing glasses



#### NOTE

The 500x500 mm wash basket should **NOT** be placed inside the Pro Wash basket

## 4 Cleaning routine

### 4.1 Daily cleaning

- 1 Start the daily cleaning by emptying the machine. Choose step 1 and 2.

See Fig. 27 *Step 1 and 2*



Fig. 27 *Step 1 and 2*

- 2 Take out the basket wheel (1) and the tank grid (2).

See Fig. 28 *Basket wheel and tank grid*



Fig. 28 *Basket wheel and tank grid*

- 3 Remove any blockages from the spray nozzles.

The nozzles can be removed and cleaned. Don't forget to put them back again if removed.

See Fig. 29 *Remove and clean the nozzles*

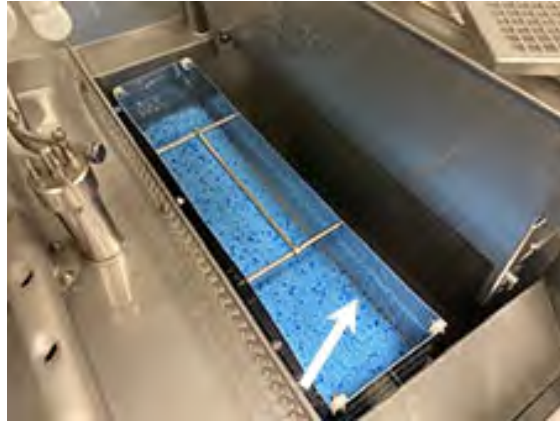


Fig. 29 *Remove and clean the nozzles*

- 4 Lift up the granule cover and check the granule level.

Top up if the granule level is below the marked level in granule basket.

See Fig. 30 *Check granule level*



*Fig. 30 Check granule level*

- 5 Use a damp cloth to clean the rubber seals on the hood.



**NOTE**

*Not 100% of the granules will be collected. 1–2 deciliters can remain in the tank.*



**NOTE**

*Too many or too few granules will impair wash results. Too many can also cause blocking of the spray nozzles.*



**NOTE**

*Do not use disinfectant or other cleaning products when cleaning the granules. The residue from these products will cause foaming in the machine with poor wash result as a consequence.*

## 4.2 Weekly cleaning

- 1 Grab the basket by the handle and lift out gently.

See Fig. 31 *Handle of granule basket*

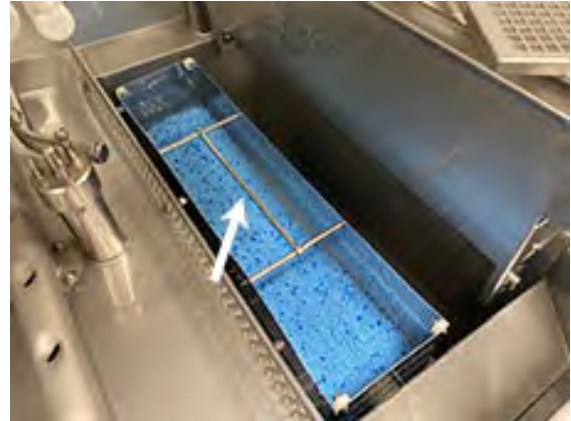


Fig. 31 *Handle of granule basket*

- 2 Rinse the granules in water carefully and remove any food residues.
- 3 Scrub and clean food residues from the wash tank.
- 4 Clean the cover for EcoExchanger.

See Fig. 32 *Cover for EcoExchanger*



Fig. 32 *Cover for EcoExchanger*



### NOTE

The outside of the machine should **not** be washed with water jet, pressure cleaner or steam cleaner.



## 5 ND Memo

ND Memo is an integrated function which informs the user of the machines's most important maintenance requirements. With ND Memo, it is possible to ensure optimum wash results, avoid breakdowns during peak hours and maintain the lowest possible operating costs. This function is integrated in the control panel and keeps the user informed as follows:

**There are 3 alerts to the operator:**

1. **Time to change water**
2. **Time to change granules**
3. **Time for service**

1. To ensure a good washing result this reminder appears after 30 cycles. The number of washes may be varied between 15 and 40 washes.

See Fig. 33 *Time for water change*



Fig. 33 Time for water change



Fig. 34 Service and granule change alert

**2.**After 2500 cycles it is time to change the entire batch of granules. 1600 cycles applies for Power Granules BIO.

Enchange the entire batch with new granules and discard of the old ones.

**3.**Service should be done after 10 000 cycles or 20 months, whatever comes first.

Schedule service appointment with a trained service technician.

See Fig. 34 *Service and granule change alert* and Fig. 35 *Information about last granule change and service*



*Fig. 35 Information about last granule change and service*

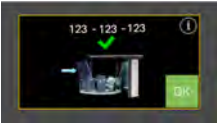


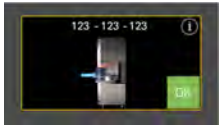
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## 6 Trouble shooting and alerts

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Error code	Meaning	Cause	Remedy
001		Wash program interrupted by operator	This error code is displayed only when operating data is read.
101	Motor protection	Motor protection for washing pump 1 has tripped	Contact a service engineer!
102	Motor protection	Motor protection for washing pump 2 has tripped	Contact a service engineer!
103	Motor protection	Motor protection for rinsing pump has tripped	Contact a service engineer!
104	Overheating protection	Overheating protection for rinsing tank has tripped.	Contact a service engineer!
105	Overheating protection	Overheating protection for wash tank has tripped	Contact a service engineer!
107	Temperature	Temperature in wash tank not reached	Contact a service engineer!
108	Temperature	Temperature in rinse tank not reached	Contact a service engineer!
110	Temperature	Temperature sensor in rinse tank not working	Contact a service engineer!
111	Temperature	Temperature sensor in wash tank not working	Contact a service engineer!

Error code	Meaning	Cause	Remedy
112	Water is below level in the rinse tank	There is not enough water in the rinse tank	Contact a service engineer!
113	Water is below level in the wash tank	There is not enough water in the rinse tank	Contact a service engineer!
114	Time limit exceeded	Time to fill the wash tank with water	Contact a service engineer!
115	Time limit exceeded	Time to fill the rinse tank with water	Contact a service engineer!
117	Rinse time	Long rinse time	Contact a service engineer!
120		The basket drive is stuck.	Check that nothing is stuck between the basket and the basket wheel. Reset the alarm by pressing the STOP button.
130	IO board	IO circuit board not tested at manufacture	Contact a service engineer!
133	Short rinse time	Rinse water was pumped out too fast, causing insufficient rinsing and heating of the wash ware.	Contact a service engineer!
142	Error dish sensor	Error indication from the dish sensor	Contact a service engineer!
143	ID error	Electrical error, identity outside range.	Contact a service engineer!

Error code	Meaning	Cause	Remedy
144	IO circuit board.	Wrong incoming voltage to IO circuit board.	Continued operation can cause damage to the machine.  Contact a service engineer!
224		The first pinch protection is activated	Remove whatever is obstructing the hood movement, reload the wash goods in the basket if necessary.
225	Hood	The second pinch protection is activated	
230	Hood	Pinch protection activated during reset	Remove whatever is obstructing the hood movement, reload the wash goods in the basket if necessary.
231	Hood	Error in the pulse counter	Contact a service engineer!
251	Hood	Check of pinch protection 1 - upper	Contact a service engineer!
252	Hood	Check of pinch protection 2 - lower	Contact a service engineer!
253	Hood	Check of pinch protection 3 - second lower	Contact a service engineer!
254	Hood	Check of home position	Contact a service engineer!

Error code	Meaning	Cause	Remedy
240	Hood	Pinch protection during calibration	Contact a service engineer!
241	Hood	No communication with VFD	Contact a service engineer!
242	Hood	Lower pinch protection activated	Contact a service engineer!
243	Hood	Upper pinch protection activated	Contact a service engineer!
244	Hood	Hood stuck	Remove obstruction. Contact a service engineer!
304	Basket granule collector	No Basket	Put the basket back into place again. Contact a service engineer!
305	Basket granule collector	Basket stuck	Contact a service engineer!
306	Basket granule collector		Contact a service engineer!
307	Basket granule collector		Contact a service engineer!
454	Temperature	Detection of temperature sensor RT failed	Contact a service engineer!
455	Temperature	Detection of temperature sensor WT failed	Contact a service engineer!

Error code	Meaning	Cause	Remedy
534	Water level	Detection of water level in rinse tank not working	Contact a service engineer!
535	Water level	Detection of water level in dish tank not working	Contact a service engineer!

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## 7 Long time storage

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When the X5 Granule is not in use for a shorter period:

- Lift the hood to the highest open position.
- Wash the granules thoroughly.
- Store the washed granules in the machine's granule collector.
- The water that remains at the bottom of the tank is dried up.

When the X5 Granule is not in use for an extended period:

- Empty the detergent and fabric softener dosing device to avoid crystallization and subsequent damage to the pumps.
- Please pick up the hoses from the detergent and fabric softener containers and soak them in a container of clean water.
- Run a few wash cycles and empty the machine.
- Or go to the user settings and select injector to empty the detergent and fabric softener hoses.
- Turn off the main switch and turn off the water inlet faucet.

Put the X5 Granule back to service:

- Replace the detergent and fabric softener hoses in their containers before starting the machine.
- Red hose = detergent
- Clear hose = fabric softener.
- After a long downtime, carry out a functional check using the service manual, possibly with the help of a service technician.




### NOTE

*Do not let granules go into the drain.*

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## 8 Sustainability

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This symbol  upon the product, or upon its accompanying documentation, tells that this product may not be treated as domestic waste, but rather must be taken to a collection facility which is suitable for the recycling of electric and electronic equipment.

Discard this product in conformity to the local norms regarding waste disposal.

For more information regarding the treatment, salvage and recycling of this product, contact your competent local offices, your local waste collection service provider or the point of sale in which the product was purchased.



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## 9 Technical Specifications X5 Granule serial X5G 02 00001

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### GENERAL

Design	Hood-type ware washer with support for crockery and cutlery.
External dimensions(mm) H (open) x W (include display) x D	1695 (2365) x 849 (295) x 990 mm
Weight	347 kg (only the machine) 437 kg (with water)
Tank volume	80 liter
Loading volume	245 litres (Ø 700 mm x 635 mm)
Rinse water volume	3,6 litres Complies with EN 17735:2023
Granule amount	7 litres
Wash water temperature	65 °C
Rinse water temperature	85 °C
Sound pressure level	65,9 dB (A) BIO Granules

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### PROGRAMS & CAPACITY

Pot washing with granules	Short: 2 min, 20 sec (+45 sec with EcoExchanger)  Long: 4 min, 15 sec (+45 sec with EcoExchanger)
Pot washing without granules	Short: 2 min (+45 sec with EcoExchanger)  Long: 3 min, 45 sec (+45 sec with EcoExchanger)

Dish wash mode	Eco: 1 min (+45 sec with EcoExchanger)  Short: 2 min, 30sec (+45 sec with EcoExchanger)
Max. / normal capacity per hour mode (normal capacity incl. handling)	175/126 GN 1/1 or similar in other pots
Capacity per program (pot wash mode)	7 GN 1/1 65 mm depth or 3 GN 1/1 up to 200 mm depth and 3 GN 1/1 up to 65 mm depth, or similar in other pots
Max. / normal capacity dish wash mode (500 x 500 mm basket)	60 baskets / 40 baskets

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#### **ELECTRICAL CONNECTION**

Voltage**	3~ 400-415V/50 Hz + PE
Fuse (at output 17.5 kW)	32A (400-415V)
Frequency	50 Hz
Maximum output	17.5 kW
Wash pump motor (pot wash)	2.2 kW
Wash pump motor (dish wash)	0.735 kW
Rinse pump motor	0.11 kW
Heater wash tank*	14 kW at output 17.5 kW
Heater rinse tank*	14 kW at output 17.5 kW
Enclosure rating***	IPX5

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#### **WATER CONNECTION**

Hardness/Connection	Total hardness: 3-7 °dH, 5-12 °TH, 53-125 PPM  ¾" BSP male (DN20)
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Connection C	<p>Hot and cold water inlet used for filling rinse tank and tank.</p> <p>5 to 65°C water temperature</p> <p>17.5 kW unit: 100–600 kPa/1–6 bar, 15 l/min</p> <p>NB! Reverse osmosis water and totally softened water must not be used.</p>
Connection D	<p>Cold water inlet used for Eco Exchanger options</p> <p>100–600 kPa/1–6 bar, 15 l/min, &lt; 20 °C</p>

#### **VENTILATION & DRAIN**

Ventilation with steam reduction	100 m³/h
Ventilation without steam reduction	400 m³/h
Heat emitted to room with steam reduction (total/sensible/latent)	0.9 kW / 0.4 kW / 0.5 kW
Heat emitted to room without steam reduction (total/sensible/latent)	1.6 kW / 0.4 kW / 1.2 kW
Drainage pipe	Pipe Ø 32 mm (outer diameter)
Drain	Capacity requirement 50 l/min
Drain water temperature	Maximum 68°C

#### **DETERGENT & RINSE AID**

Detergent and rinse aid	<p>Required. 230 VAC signal is available from separate box</p> <p>Max load total 0,5 A</p>
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\* Not in use simultaneously

\*\* For specific data regarding delivered machines, please see machine rating plate

\*\*\*Do not use high pressure/velocity water sprays to clean the machine nor the floor underneath the machine due to water splashes that may wet the electrical parts of the machine.



#### NOTE

*X5 Granule® is supplied with a 4 metres long electric cable to be connected to an approved supply disconnecting device on the wall. Must be incorporated in the fixed wiring in accordance with the wiring rules. The supply disconnecting device is not included in the delivery.*

#### Installation Drawing X5 Granule

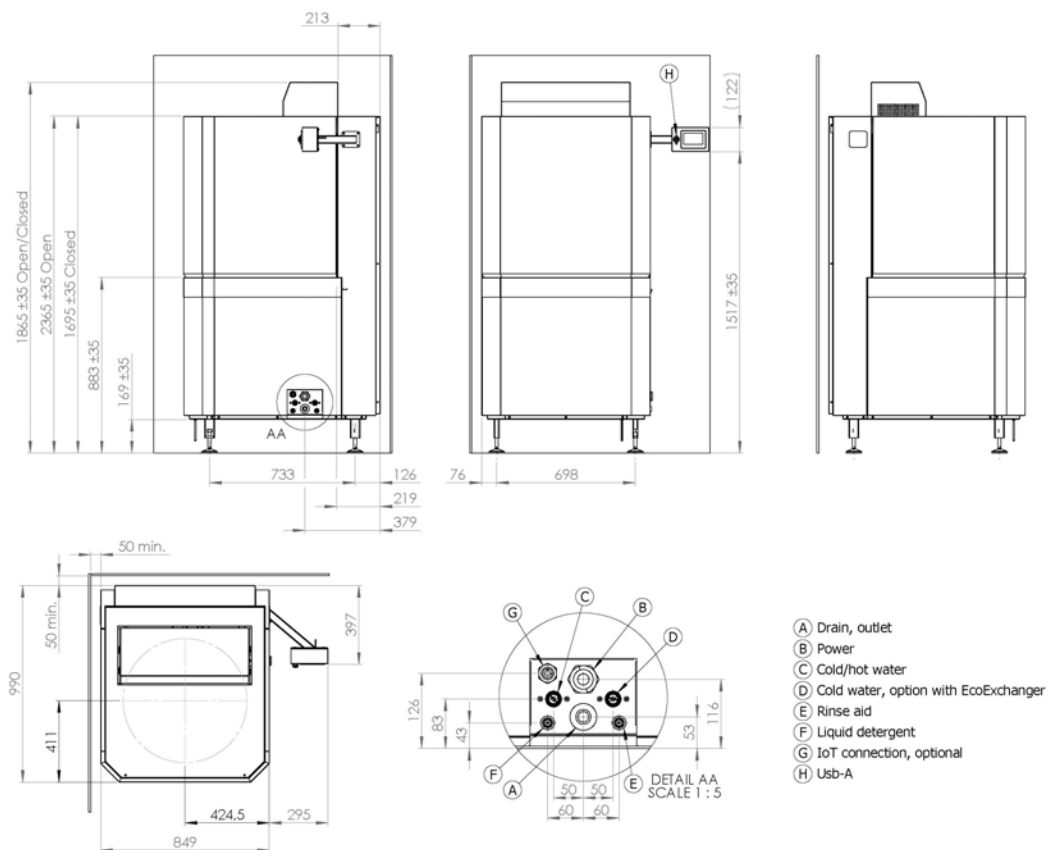


Fig. 36 Installation drawing X5G