

 Swedish Innovation, quality & design

Pure Performance™ through Granule Technology™

X5 Granule

A New Era of Granule Technology



Combined warewashing and dishwashing

NOR:DISK
CLEAN SOLUTIONS

Pure Performance™ through Granule Technology™

Granule Technology boosts high-pressure water with PowerGranules® and a small amount of detergent for highly efficient mechanical scrubbing effect on pots, pans, and utensils.

The blasting power combined with secure temperature washes hygienically clean in a matter of minutes, using in average 70% less water, energy, and chemicals than traditional pot washing methods.

A smart, sustainable, and economic solution that eliminates pre-washing.

A new era of Granule ware washing is here

The introduction of X5 Granule marks the start of a new era for Nor:disk. We have worked for several years to revise and rework all systems in our hood machine for combined pot and dishwashing. Throughout the design process, the user experience and overall sustainability of the product has guided our efforts. We have also put a lot of effort into the study of how water behaves with and without granules, so that we may bring the best possible product to the market.

Top improvements and upgrades:

Sustainability

- + 50% less welding through smart cabin design, reducing the carbon footprint
- + 40% water savings per cycle compared to previous model
- + 48% overall energy savings through smarter heating and insulated rinse system

Efficiency

- + Optimised, short wash programs, secured hygiene in 1 - 4 minutes
- + 43% faster fill & heat and water exchange times
- + 13% less granules needed, thanks to optimised wash system

Ease of use

- + Handle granules only once a week
- + Auto-cleaning program for daily cleaning of granules and wash cabin
- + Intuitive user interface displaying pictograms on a touch screen

X5 Granule

Granule potwashing with smart dishwashing mode

Premium user experience



Minimum handling of granules

Granules are automatically collected at the end of each cycle. The daily cleaning consists only of rinsing the granules while still in the machine. Once a week a more thorough cleaning of the granules is recommended. Autoclean program takes care of most of the daily machine cleaning needs at the end of a busy day.



Wash basket sensor

Detects what wash basket is in the machine and chooses the correct program. A safety feature to avoid shattering glasses and plates.



Easy loading

The X5 Granule comes with our new and improved Pro Wash Basket, for details see next page. The pass-through model with tables separates dirty and clean and lets the operator work at a comfortable upright position.



Kick'n Wash for hands-free operation

A simple kick on the pedal automatically lowers the hood and launches the wash program. When finished, the hood rises automatically. Eliminates repetitive motions and avoids staff developing work-related injuries.

High productivity



Great capacity

Wash 7 GN 1/1 or GN 1/2 per cycle. Up to 175 GN 1/1 per hour or 60 crockery baskets per hour.



Fast filling and water change

Fill and heat in 9 minutes and water change + heating done in 8 minutes (times for hot water connection), in a fully automated process.



Hygiene safety

With controlled wash and rinse temperatures, we can guarantee safe wash results. X5 Granule comply with EN 17735:2023 hygiene standard.



Quick wash programs

Clean your pots and pans in 2 min. 20 sec. without prewashing. Dishwashing is done in 60 sec.



Smart sensors

Gives steady operations with quicker fixes and less stand-stills. Improving energy consumption and assisting user trouble-shooting.



Touch screen user interface for intuitive use

New user interface with touch screen and pictograms makes for easy and intuitive operations. Control panel is at eye level for good ergonomics. Visual prompts when user error occurs.



Heat and noise insulation

Double-skinned machine construction of stainless steel. Equipped with heat and noise insulation.



Auto-reminders

The machine interface lets you know when it's time to change wash water, when the granules are worn out, and when it's time to schedule periodical maintenance.



HACCP wash log

The control system stores vital HACCP data for up to 1000 wash cycles. The data log can be accessed via the display or exported to a USB stick for further use or storage.



Smarter hood lifting system

Automated hood lifting system with upwards and downwards protection for the user.

Sustainable consumption



Low water consumption

Rinse water volume is as low as 3.6 litres per cycle.



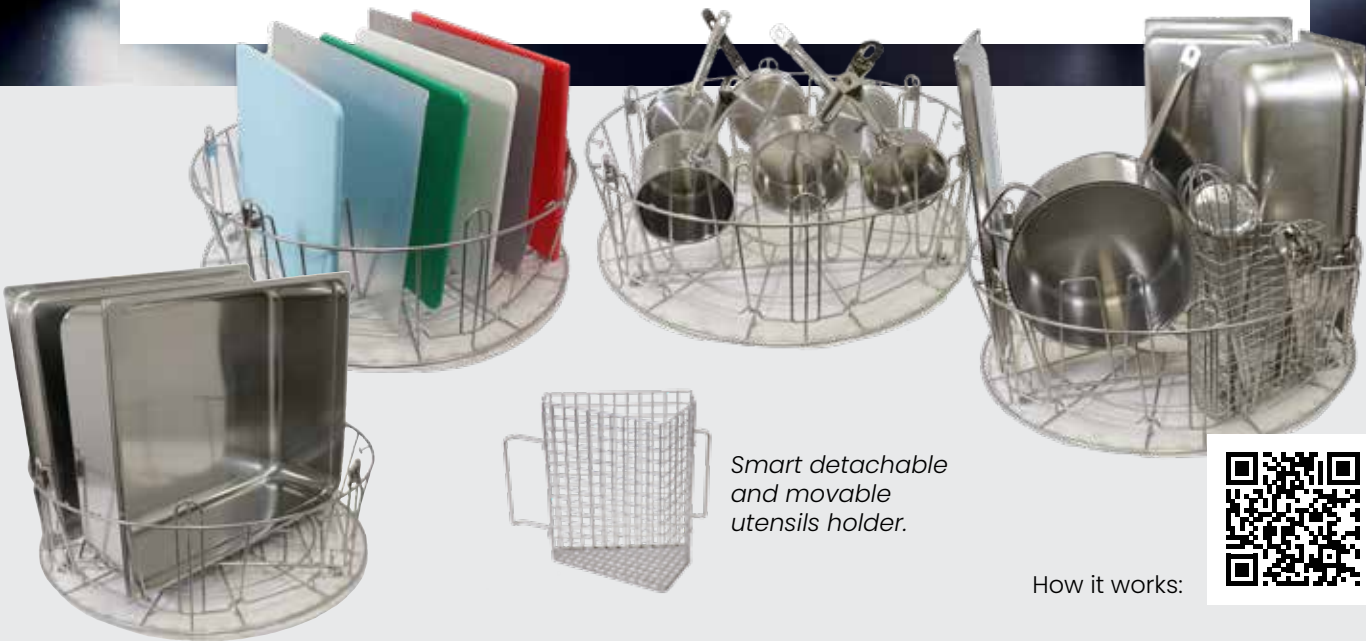
EcoExchanger® option

Heat exchanger and steam reduction in one. Makes use of the energy in the steam from the hot rinse water, while also minimizing the steam let out into the wash area, thus improving the working environment. Saves up to 40% of the energy to heat the rinse water for each cycle.

Unique productivity with Pro Wash Basket

This multi-purpose round wash basket offers loading possibilities for Gastronorm containers, pots and pans, as well as grids, baking sheets, and cutting boards. The net basket insert holds whisks, ladles, spoons and other smaller utensils.

Supports up to 6+1 GN 1/1, 65 mm deep, or 2 GN 2/1 up to 100 mm, or 12 GN 1/4, 1/6, 1/9 and a multitude of similar items.



Smart detachable and movable utensils holder.

How it works:



Related accessories & PowerGranules BIO®

Read more about related accessories on our website or contact your local Nor:disk sales representative to get specific advice on what will work for you.

You will also find more information about the choice of Power-Granules; PowerGranules BIO, made of biodegradable material, or regular PowerGranules®.



X5 Granule technical specifications

General	
Design	Hood-type pot washer with support for crockery and cutlery. Pass through model with rotating wash basket.
Outer dimensions (H x W x D)	1695/2365 mm (± 35) x 1144 (849+295) mm x 990 mm
Loading volume	245 litres (Ø 700 x H 635 mm)
Weight (filled / empty)	437 kg / 347 kg
Wash tank volume	80 litres
Rinse water volume all programs	3.6 litres / program <i>EN 17735:2023 hygiene norm certified</i>
Granule volume	7 litres
Wash water temperature	65 °C
Rinse water temperature	85 °C
Sound pressure level	65.9 dB(A), ISO 11203
Programmes & capacity	
Wash programmes with / without Granules	Short: 2 min, 20 sec / 2 min Long: 4 min, 15 sec / 3 min, 45 sec
Wash programmes (dishwash mode)	Short: 1 min Long: 2 min, 30 sec
Max. / normal capacity per hour (normal capacity incl. handling)	175 / 126 GN 1/1 or similar in other pots.
Capacity per programme	7 GN 1/1 or 1/2 65 mm, or 3 GN 1/1 or 1/2 up to 200 mm depth and 3 GN 1/1 or 1/2 up to 65 mm depth, or similar in other pots.
Max. /normal capacity dishwash mode (500 x 500 mm basket)	60 baskets / 40 baskets
Electrical connection	
Available voltage	3 ~ 400-415 V / 50 Hz + PE
Fuses	32 A (max output 17.5 kW) / 25 A (max output 12.5 kW)
Max output	17.5 kW (32 A) / 12.5 kW (25 A)
Wash pump motor	2.2 kW
Wash pump motor (dishwash mode)	0.735 kW
Rinse pump motor	0.11 kW
Heater wash tank*	14 kW (17.5 kW version) / 9 kW (12.5 kW version)
Heater rinse tank*	14 kW (17.5 kW version) / 9 kW (12.5 kW version)
Enclosure rating	IPX5
Water connection	
Hardness / Connection	Total hardness: 3-7 °dH, 5-12 °TH, 53-125 PPM / ¾" BSP male (DN20) <i>Note: Reverse osmosis/distilled water must not be used.</i>
Connection C	1-6 bar, 15 l/min, 5-65 °C
Connection D	EcoExchanger option 1-6 bar, 15 l/min, <20 °C
Backflow protection	EN 1717 is fulfilled with type AB air gap, EN 13077
Drain & ventilation requirements	
Ventilation with EcoExchanger	100 m³/h
Ventilation with no steam reduction	400 m³/h
Heat emitted to the room with Eco-Exchanger (total/sensible/latent)	0.9 kW / 0.4 kW / 0.5 kW
Heat emitted to room with no steam reduction (total/sensible/latent)	1.6 kW / 0.4 kW / 1.2 kW
Drainage pipe	Pipe Ø 32 mm
Drain	Capacity requirement 50 l/min. Drain pump, max height above floor: 700 mm <i>The machine must not be placed directly over a drain.</i>
Detergent and rinse aid	Required. 230 VAC signal is available from a separate box. Max. load total 0.5 A.

*Not in operation simultaneously.

X5 Granule is supplied with a 4-metre-long power cable (without plug) for connection to an approved mains switch. The mains switch is not included in the delivery.

EcoExchanger®

EcoExchanger® is an optional add-on that cleverly combines steam reduction and heat recovery in one. Improves the working environment and saves up to 40% of the energy needed for heating the rinse tank. Adds 45 seconds to wash cycle duration.

Talk to your Nor:disk sales representative or your preferred Certified Nor:disk Sales Partner for more information.

Dosing equipment

Liquid detergent and rinse aid dosing dispenser with peristaltic pumps and detergent dosing sensor is available as an optional factory fitted add-on.

Standard delivery includes:

X5 Granule package:

- 1 pc 29505 ProWash basket
- 1 pc 21838 Scraper
- 1 pc 29495 Utensil Basket
- 1 pc 19882 Wash Basket for plates
- 7 litres PowerGranules® (in machine)

X5 Granule HORECA package:

- 1 pc 26140 Wash basket w. bottom grid
- 1 pc 21838 Scraper
- 1 pc 29495 Utensil Basket
- 1 pc 19882 Wash Basket for plates
- 7 litres PowerGranules® (in machine)

Tables for straight set-up or in a corner

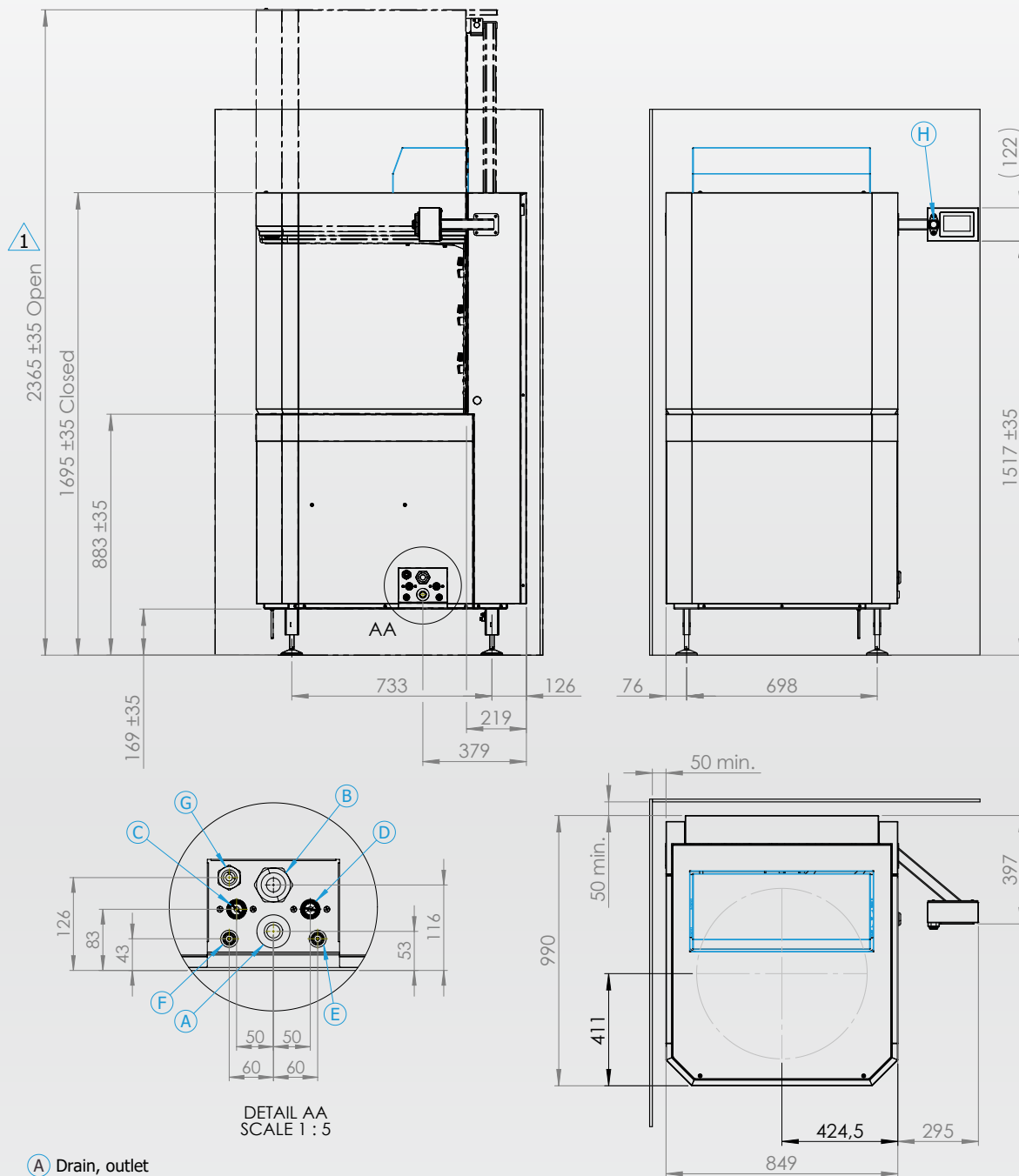
X5 Granule is a pass-through solution and needs to be installed with inlet and outlet tables to function optimally.

As tables need to be customised to the available space, Nor:disk recommend choosing a local supplier for the production of tables with the aid of our detailed production drawings.



X5 Granule Installation

(mm)



- (A) Drain, outlet
- (B) Power
- (C) Cold/hot water
- (D) Cold water, option with EcoExchanger
- (E) Rinse aid
- (F) Liquid detergent
- (G) IoT connection, optional
- (H) Usb-A

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