Lean Wash Center® X2

User Manual

serial # X2-01-00001



Art. no EN28277

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EC DECLARATION OF CONFORMITY FOR MACHINERY

Original

Directive 2006/42/EC, Annex II 1A

Manufacturer (and where appropriate his authorised representative):

Representative: Granuldisk

Address: Jägershillsgatan 13, 213 75 Malmö

Hereby declares that

Type of machinery: Ware washing machine for com-

mercial kitchens

No. of machinery: X2 Lean Wash Center®

Complies with the requirements of Machinery Directive 2006/42/EC. Complies with the applicable requirements of the following EC directives:

2014/35/EU, LVD 2014/30/EU, EMC

The following harmonized standards have been applied:

EN 60335-2-58:2017

EN 60335-2-58:2005/A12:2016

EN 55014-1:2017/A11:2020

EN 55014-2:2015

EN 61000-3-2:2019

EN 61000-3-3:2013/A1:2019

EN 61000-6-2:2019

EN 61000-6-3:2007/A1:2011/AC:2012

The following other standards and specifications have been applied:

SS-EN 1717:2000

Authorized to compile the technical file:

Name: Staffan Stegmark

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Signature:

Place and date: Malmö, 11.10.2021

Signature:

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Position: CEO

1 General description and safety

1.1 Notes and warnings



NOTE

X2 Lean Wash Center® is a universal washing solution for commercial kitchen that is designed for washing crockery, cutlery and glasses as well as pots, pans and containers.

This manual is your guide for the correct use of the X2 Lean Wash Center®.

Granuldisk recommends that you study the manual thoroughly to be sure that the X2 Lean Wash Center® is installed and used correctly and safely.

Ensure that the manual is always available during the whole lifetime of the X2 Lean Wash Center®.

Granuldisk accepts no responsibility for damage to the equipment or other damage or injury caused by not following the directions in this manual.

The user must not carry out any repairs or maintenance works on the dishwasher. Service and maintenance must be carried out by qualified and authorised personnel.

Any assistance required on this dishwasher must be carried out by authorised personnel.

Use exclusively original spare parts, otherwise the product warranty issued and the manufacturer's responsibility will become void.

The machine is designed for commercial kitchens with a temperature between minimum 5°C and maximum 35°C.

Regarding the handling and use of detergent and rinse aid with the product, please see the chemical manufacturer's instructions. Use high quality products for best wash result. Also refer to information about detergent and rinse aid in the Service manual.

Use protective gloves and eye protection when handling the chemicals.

User manual in original.



WARNING

The following fundamental rules must be observed when using this appliance:

- Never touch the appliance with wet hands or feet.
- Never use the appliance with bare feet.
- Do not install the appliance in workplaces where it could get sprayed/ splashed with water.
- Do not put your bare hands into water containing detergent. Wash the hands thoroughly under running water straightaway if by accident this happens.



WARNING

The dishwasher is a professional machine. It must be used by adults and authorised personnel only. It must be installed and repaired exclusively by a qualified technician. The manufacturer declines all forms of responsibility for improper use, maintenance and repairs.

The dishwasher must not be used by children or anybody who has restricted physical, sensorial or mental capacity or by anybody who has not been appropriately trained or properly supervised.



WARNING

The dishwasher is designed only and exclusively to wash glasses, dishware and cockware soiled with residues of human food.

Do not use it to wash objects soiled with petrol or paint. Do not wash pieces of steel or metal, fragile objects or objects made of material that will not withstand the washing process. Do not use acid or alkaline corrosive chemical products, solvents or chlorine based detergent.



WARNING

The machine uses hot water. Risk of scalding.

Do not open the hood when machine is running. The dishwasher is equipped with a safety device that will immediately stop the machine to avoid leakage of water if the hood is opened accidentally.



WARNING

Do not place any items on top of the hood.

Do not stand on the machine, it is not designed to hold the weight of people.



ELECTRICAL

Do not use water to extinguish fire on electrical parts.



NOTE

When cleaning the machine, please follow carefully the instructions in chapter 4 Daily cleaning.

1.2 Technical data

General

Design Compact and versatile cook-

ware and dishware washing

equipment

Stainless steel cookware washing basket - Polypropylene dishware washing basket - Polypropylene glassware washing basket

External dimensions H x W x D (open and table height

860 mm)

1950 mm x 655 mm (+ handle 100 mm) x 745 mm (+ handle 95 mm)

(Standard delivery)

1950 mm x 655 mm (+ handle 100 mm) x 785 mm (+ handle 95 mm) (with option automatic hood lift)

2125 mm x 655 mm (+ handle 100 mm) x 785 mm (+ handle 95 mm)

(with option EcoExchanger)

Weight (empty / filled) 138 / 178 kg (Manual hood lift

version)

150 / 190 kg (with option automatic

hood lift version)

160 / 200 kg (with option EcoEx-

changer version)

168 / 208 kg (with option automatic

hood lift and EcoExchanger

version)

Tank volume 30 litres
Clearance 430 mm
Rinse water volume 2,6 litres
Wash water temperature*** 60 °C
Rinse water temperature***

Rinse water temperature*** 85 °C

Sound pressure level < 64 dB(A) ISO 11203

PROGRAMS & CAPACITY

Cookware washing mode 6 min. (carbonized cookware)

3 min. (cookware)

Dishware washing mode	2 min. (plates, cutlery, utensils)
-----------------------	------------------------------------

1 min. (glasses)

EcoExchanger (option) Extends washing cycle by 30

seconds.

Capacity per program (cookware

washing mode)

1 Pot up to Ø 450 x H 380 mm or sub sized - 1 GN 1/1 Depth 200 mm or sub-sized - 2 GN 1/1 Depth 65 mm

Capacity per program (dishware

washing mode)

18 Dinner plates or 12 Soup plates Ø 240 mm - 25 Glasses/mugs Ø 90

mm

Start-up time (filling and heating) 9 min. at 55 °C inlet water

temperature

Water exchange time 5 min. at 55 °C inlet water

temperature

ELECTRICAL CONNECTION

Voltage** 380 / 400 / 415 V / 3N~ / 50 Hz

230 V / 3N~ / 50 Hz

Fuse 16 A (400 V)

32 A (230 V)

Frequency 50 Hz

Maximum output 10 kW

Pot washing pump 1,5 kW

Dish washing pump 1,1 kW

Rinse pump 0,18 kW

Heater wash tank* 8 kW
Heater rinse tank* 8 kW

Enclosure rating IPX5****

WATER CONNECTION

Hardness/Connection Total hardness: < 4 °dH (7 °fH, 70

PPM)

Inlet hose with ¾" female

2 - 5 bar

VENTILATION & DRAIN

Heat emitted to room (total/sensi- 5,8 kW / 2,1 kW / 3,6 kW ble/latent)

Heat emitted to room with EcoEx- 4,9 kW / 2,1 kW / 2,8 kW changer (total/sensible/latent)

Drain age Drain hose Ø 28 mm - 1,5 m

Drain capacity requirement 50 I / min.

Drain water temperature 65 °C

Maximum lift height drain pump 800 mm

Drain pump 40 W

DETERGENT & RINSE AID

Liquid detergent and rinse aid dosing dispenser with peristaltic pumps are integrated into the X2 Lean Wash Center®

- ** For specific data regarding delivered units, please see rating plate
- *** Factory settings. The settings can be changed according to the local standards.
- **** Do not clean the machine with high-pressure water.



NOTE

The X2 Lean Wash Center® must be installed according to national regulations. X2 Lean Wash Center® is supplied with a 2 metres long electric cable to be connected to an approved supply disconnecting device on the wall. The supply disconnecting device is not included in the delivery.

^{*} Not in use simultaneously

1.3 SIMpel – easy access to information

To make it easier for the operator to find information and how to use the unit there is a QR-code on the X2 Lean Wash Center®.

The sticker is placed in the lower right corner of the hood.



1 Scan the QR code on the sticker.

See Fig. 1 QR-code on the sticker



Fig. 1 QR-code on the sticker

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

(Note that the interface may vary depending on the device used).

See Fig. 2 Menu

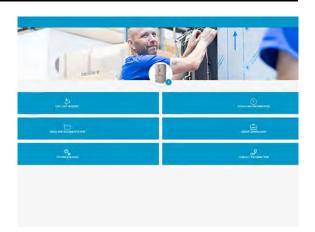
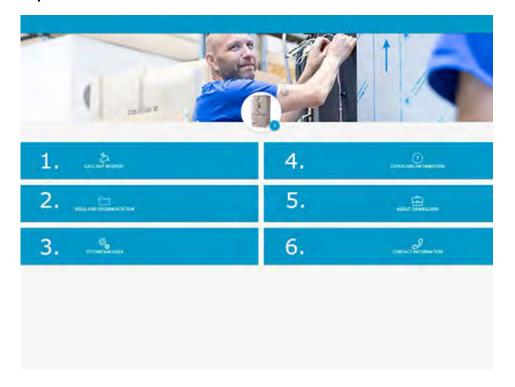


Fig. 2 Menu

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

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 GRANULDISK	Link to Granuldisk website
6. CONTACT INFORMATION	Contact information to service partner

2 Operating

2.1 Control panel



- 1. ON/OFF
- 2. MENU to enter the User settings
- 3. Arrow UP to toggle up in the display
- 4. Arrow DOWN to toggle down in the display
- 5. CONFIRM

2.2 Start and operation

1 Switch on the main electrical switch.

The display lights up and goes in OFF-mode.

If automatic hood: the hood goes down to calibrate.

2 Press and hold the ON/OFF button in the upper left corner. The display lights up and the X2 Lean Wash Center® starts to fill with water and heat up to the correct temperatures in the wash and rinse tank.

If automatic hood: the hood goes up and will remain open during the filling and heating phase.

The filling and heating time is approx. 9 min at 55 °C water inlet temperature.

The CONFIRM button is yellow during the filling and heating phase.

See Fig. 3 Filling with water

3 The X2 Lean Wash Center® is ready to operate when the CONFIRM button has turned green.

See Fig. 4 The X2 is ready to use



Fig. 3 Filling with water



Fig. 4 The X2 is ready to use

4 Choose wash program with the buttons UP and DOWN.

X2 Lean Wash Center® has 2 wash modes. Which one is activated depends on which basket is loaded.

1.

- Glassware 1 min
- Cookware 3 min

2.

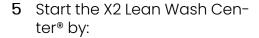
- Dishware 2 min
- Burnt cookware 6 min

See Fig. 5 Glassware/Cookware and Fig. 6 Dishware/ Burnt cookware



NOTE

30 seconds will be added to each cycle if the X2 Lean Wash Center® has the option EcoExchanger.



 Automatic hood: By using the foot mechanism or pressing the CONFIRM button.

See Fig. 7 Foot mechanism

 Manual hood: the operator has to lower the hood manually.



Fig. 5 Glassware/Cookware

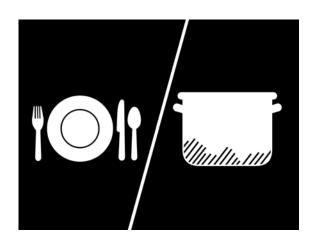


Fig. 6 Dishware/Burnt cookware



Fig. 7 Foot mechanism

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6 When the X2 Lean Wash Center® is running the display will show a countdown of the wash cycle and the CONFIRM button turns blue.

See Fig. 8 Countdown



Fig. 8 Countdown

7 If the rinse temperature is not achieved the wash phase continues until the correct temperature is reached (85°).

See Fig. 9 Thermostop



Fig. 9 Thermostop

- 8 The program is ready when the CONFIRM button turns green.
 - Automatic hood— the hood goes up automatically.
 - Manual hood—lift up the hood manually.
- 9 If water change is needed, press and hold the ON/OFF button and choose by arrow down "Water change"

See Fig. 10 Choose Water change

Confirm by pressing the CONFIRM button.

Draining, filling and heating the tank again takes about 5 min.

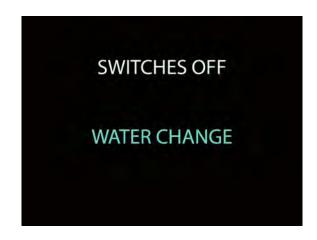


Fig. 10 Choose Water change



NOTE

When the unit is not used for 20 minutes (this time can be programmed from the technicians menu) it will enter Standby mode, keeping the temperatures lower to save energy. To exit the function, press any button or open the hood.



Fig. 11 Standby mode

2.3 Loading washware

Load pots, pans and containers in the specially designed cookware basket.

Capacity: 2 GN 1/1 depth 65 mm or 1 GN 1/1 depth 200 mm or sub-sized.

See Fig. 12 Cookware basket with 2 GN 1/1



Fig. 12 Cookware basket with 2 GN 1/1

The cookware basket can be loaded with 1 GN 1/1 and one pot or with smaller containers.

See Fig. 13 Cookware basket with 1 GN 1/1 and one pot

See Fig. 14 Cookware basket with 1 GN 1/1 and smaller containers



Fig. 13 Cookware basket with 1 GN 1/1 and one pot



Fig. 14 Cookware basket with 1 GN 1/1 and smaller containers

The cookware basket can be loaded with one large pot.

Capacity: Pot up to Ø 450 mm H 380 mm.

See Fig. 15 Cookware basket with one large pot



Fig. 15 Cookware basket with one large pot

Load plates in the standard dishware basket 500 x 500 mm.

Capacity: 18 dinner or 12 soup plates ø 240 mm.

See Fig. 16 Dishware basket



Fig. 16 Dishware basket

Load glasses and mugs in the standard glassware basket 500 x 500 mm.

Capacity: 25 glasses/mugs ø 90 mm.

See Fig. 17 *Glassware basket*



Fig. 17 Glassware basket

3 User settings

To enter the User settings press and hold the MENU button for 3 seconds.

Choose which parameter to change by toggling up and down with the arrows.

Confirm your choice with the CONFIRM button.

See Fig. 18 Menu



Fig. 18 Menu

2 Change date and time

Choose Clock in the User settings menu with the CONFIRM button.

Choose which parameter to change. Move up and down with the arrows.

The parameter to be modified is shown in green.

Change the value (in yellow) with the arrows.

Confirm with the CONFIRM button.

To exit the menu: press the ON/OFF button.

3 Switch off backlight

Choose Backlight in the User settings menu with the CONFIRM button.

Change the value (in yellow) to NO with the arrows.

Confirm with the CONFIRM button.

To exit the menu: press the ON/OFF button.

4 Switch off buzzer

Choose Buzzer in the User settings menu with the CONFIRM button.

Change the value (in yellow) to NO with the arrows.

Confirm with the CONFIRM button.

To exit the menu: press the ON/OFF button.

5 Change language

Choose Language in the User settings menu with the CONFIRM button.

Change the value (in yellow) with the arrows.

Confirm with the CONFIRM button.

To exit the menu: press the ON/OFF button.

4 Daily cleaning

1 Empty the X2 Lean Wash Center® by pressing the ON/ OFF button in the upper left corner. Choose "Switches off" in the display and CONFIRM.

The display will show the symbol for empty machine and a countdown of 20 seconds starts.

See Fig. 19 Empty the X2 Lean Wash Center®

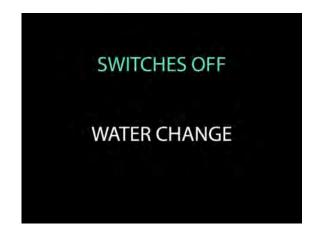


Fig. 19 Empty the X2 Lean Wash Center®

2 If you want to activate the Self Cleaning Program press the CONFIRM button again. The symbol for self cleaning will show in the upper right corner of the display.

See Fig. 20 Self cleaning symbol

Emptying the X2 Lean Wash Center® will take about 3 minutes.



Fig. 20 Self cleaning symbol

3 Take out the tank grid (A) and remove the filter (B).

See Fig. 21 Remove tank grid and filter



Fig. 21 Remove tank grid and filter

4 Take out the two filters at the bottom of the tank.

See Fig. 22 Remove the filters



Fig. 22 Remove the filters

5 Flush and clean the filters and the tank grid.

See Fig. 23 Clean the filters and the tank grid



Fig. 23 Clean the filters and the tank grid

- 6 Put all parts back in place.
- 7 Wipe along the edges of the tank with a wet cloth.
 - See Fig. 24 Wipe along the edges of the tank



Fig. 24 Wipe along the edges of the tank

8 The X2 Lean Wash Center® is now ready for the next serving.

Leave the hood open to let air circulate.



NOTE

Do not leave the X2 Lean Wash Center® switched on if it is not used for some time or if the operator is not able to monitor it directly.



NOTE

If the X2 Lean Wash Center® is not going to be used for quite some time you have to empty the detergent and rinse aid dispensing device to avoid crystallizations and damages to the pump. Remove the priming pipes from the detergent and rinse aid containers and soak them in a container of clean water. Run some wash cycles and empty the machine completely. To finish switch off the main off/on switch and shut off the water inlet tap.

5 Error icons and troubleshooting

5.1 Error icons in the display

ERROR ICONS	MEANING	SOLUTION
	Low water level in the wash tank.	Check the mains water inlet.
\sim		Press CONFIRM to reset the count.
		If the problem persists after switching off and on again, call for technical assistance.
	Low water level in the rinse tank.	Check the mains water inlet.
×		If the problem persists after switching off and on again, call for technical assistance.
	Anomaly or breakage of the temperature sensor in the wash- or rinse tank.	Switch off and on again. If the problem persists, call for tech- nical assistance.
×	High water level in the tank.	Check if there are any obstructions in the drain pipe.
		Check if the drain pump is working correctly.
		Press CONFIRM to reset the count.
		Switch off and on again. If the problem persists, call for technical assistance

5.2 Troubleshooting

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
The mains light fails to switch on.	Mains not connected.	Check the electric mains connection.
The wash cycle fails to start.	The machine has not yet filled.	Wait until the CONFIRM button has turned green.
Poor washing result.	The spray arms are clogged, or scale is obstructing them. Not enough or unsuitable detergent or rinse aid. Baskets not fitted properly. Too low wash temperature. The set cycle is unsuitable.	Dismantle and clean the spray arms. Check the type and concentration of detergent/rinse aid. Fit the baskets properly. Check the temperature — if too low, call for technical assistance. Choose a longer program.
Insufficient rinsing.	The spray nozzles are clogged, or scale is obstructing them.	Dismantle and clean the spray nozzles.
The glasses and cut- lery are stained.	The rinse aid is unsuitable or is not dispensed correctly. Water hardness above 4 °dH or high dissolved salt content.	Check the rinse aid container and if it is suitable for the type of mains water. If the problem persists, call for technical assistance.
Water in the tank after draining.	The drain pipe is not positioned correctly or is partially obstructed.	Check if the pipe and the dishwasher drain are obstructed and if the drain is positioned too high up; maximum 800 mm. Check the sieves in the machine.

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5.2	Troubl	lesho	oting	

5 Error icons and troubleshooting

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6 Notes