

D2 Core

User Manual

serial #D2C- 01 00001



NORDISK
CLEAN SOLUTIONS

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Art. no EN31159

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EU DECLARATION OF CONFORMITY

Original

Directive 2006/42/EC, Annex II IA

Manufacturer (and where appropriate the authorised representative):

Representative: Nordisk Clean Solutions
Address: Jägershillsgatan 13, 213 75 Malmö

Hereby declares that

Type of machinery: Commercial dish washer
No. of machinery: D2C 01 00001

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
Address: Jägershillsgatan 13, 213 75 Malmö

Signature:

Place and date: Malmö, 01.03.2024
Signature:



Name: Mikael Samuelsson
Position: CEO

2 General description and safety

2.1 To the user

Thank you for choosing a Nor:disk Clean Solutions product.

Read the instructions in this manual thoroughly. Follow all provided guidance to ensure that you operate the appliance in a safe and efficient way.

At all times – Obey the safety instructions – The safety instructions are written for your safety, the safety of nearby persons, and to prevent accidental misuse of the machinery.

The machine is CE marked, which means that it meets the requirements of the EU Machine Directive regarding product safety. Product safety is ensured within the machine's design that is engineered to prevent personal injury or property damage. Modifications made to the equipment without the manufacturer's approval will void the manufacturer's product liability.

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

Keep this manual available throughout the machine's life span. If you seek further information about this machine or information related to operators training you will find this and more on: [Nor:disk Clean Solutions](#).

Find user tutorials, accessory tutorials, customer case videos, and webinars on our [You tube channel](#).

There is a sticker with a QR code placed on the machine's front. Scan this and get direct access to specific information and knowledge (see chapter about SIMpel in this manual).

User manual in original

2.2 Notes and warnings

This product is a professional solution for washing crockery, cutlery and glasses in commercial kitchens. It is designed for use in rooms with a temperature between a minimum of 5° C and a maximum of 35° C.

The product is not intended for use by minors or by persons with restricted physical, sensory or mental abilities, who do not possess the requisite expertise and understanding for its safe operation. These persons may use the machine exclusively under the supervision of a person responsible for their safety.



NOTE

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

- Never use the appliance with bare feet.
- Do not put your bare hands into water containing detergent. If so immediately wash your hands with running water.
- Do not clean the machine's exterior/outside with large amounts of water. Use only a damp cloth.
- Do not insert solvents such as alcohol or turpentine into the machine, which could cause an explosion. Do not insert dishes with ash, wax or varnish residues into the machine.
- Do not use the appliance 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.
- Never use the dishwasher or its parts as a stepladder or support for persons, things or animals. Leaning or sitting upon the dishwasher's open door or hood could cause an overturn with consequent danger to people in the proximity.

The user must not carry out any repairs or maintenance works on the dishwasher. The machine is CE marked. The CE mark is only valid for machines in their original design. Service and maintenance must be carried out by qualified and authorized personnel. Any assistance required on this dishwasher must be carried out by authorized personnel.

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. Use protective gloves and eye protection when handling the chemicals.

**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.

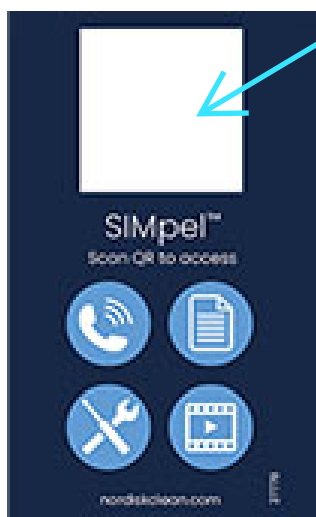
**ELECTRICAL**

Do not use water to extinguish fire on electrical parts.

2.3 SIMpel™ — Easy access to information

SIMpel is a feature for easy access to machine specific information and visual instructions on how to operate your Nor:disk Clean appliance..

1. Scan the QR code on the sticker placed on the machines front.



2. The user menu options. Change language with the flag icon.



Explanation of the user menu options

1. CALL OUT REQUEST	Not in use
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 Nor:disk web page
6. CONTACT INFORMATION	Not in use

3 Technical data D2 Core

General

Design	Hood type dish washing machine – single skin hood
Wash basket	Polypropylene dish ware wash basket Polypropylene glassware wash basket.
External dimensions H x W x D (open and table height)	1950 mm x 655 mm (+ handle 100 mm) x 745 mm (+ handle 95 mm) (standard machine)
Clearance (loading height)	430 mm
Weight (empty/filled)	108 / 150 kg (standard machine)
Tank volume	30 litres
Rinse tank volume	12 litres
Rinse water volume	2.8 litres
Wash water temperature***	60° C
Rinse water temperature***	85° C
Sound pressure level	68 dB(A) ISO 11203
Water connection	Inlet hose 1.4 m female connection ¾" threading. Total hardness: < 4 °dH; 7 °f; 70 PPM. 200 – 500 kPa (2 – 5 bar)

Programs and capacity

Wash programs	1 min. (Glass) 2 min. (Plates) 3 min. (Cutlery) 8 min. (Utensils)
Capacity per program	18 Dinner plates or 12 Soup plates Ø 240 mm 25 Glasses/mugs Ø 90 mm.
Start up time (fill and heat)	12 min. at 55° C inlet water temperature

Ratings

Voltage**	380V, 400–415V/ 3N~ / 50 Hz 230 V/ 3 N~ / 50 Hz
Fuse	16 A (400 V) 25 A (230 V)
Frequency	50 Hz

Ratings

Output (maximum)	8.52 Hz
Dish wash pump	0.52 kW
Rinse pump	0.18 kW
Heater wash tank*	8 kW
Heater rinse tank*	8 kW
Enclosure rating****	IPX5

Ventilation and drain

Ventilation requirements	500 m ³ /h
Heat emitted to room (total/sensible/latent)	4.5 kW / 2.0 kW / 2.5 kW
Drainage	Drain hose Ø 28 mm – 1,5 m
Drain capacity requirement	50 l/ min.
Drain water temperature	65° C
Drain pump	40 W
Maximum lift drain pump	800 mm

Detergent & Rinse aid

Liquid detergent and rinse aid dosing dispenser with peristaltic pump are integrated in the machine.

* Not in use simultaneously.

** For specific data regarding delivered units, please see the machine 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 appliance must be installed according to national regulations and 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.

4 Operating

4.1 Control panel

CONTROL PANEL



1. ON/OFF
2. P — select wash program
3. CONFIRM — start the wash program



NOTE

Once the power supply is switched ON the machine is in a ready state/stand by mode — the display will show — OFF.



When you press the control panel's ON/OFF button (1) the machine immediately starts to fill the tanks with water. The water is heated to correct temperature.

This fill and heat procedure takes about 15 minutes. The arrow on the confirm button (3) is yellow during this phase.



As soon as the tanks are filled and the water is hot enough the arrow on the confirm button (3) lights up in green.



During a wash program the arrow on the CONFIRM button (3) is blue and the display runs a countdown of the program length.



When the wash program ends the arrow turns green again.

When the dishes are done press the ON/OFF button(1) and the machine immediately begin to drain the water from the tanks.

After the daily clean of the appliance switch OFF the power supply and turn OFF the water supply.

4.2 Daily use

Instructions

- 1 Turn ON the water supply to the appliance.
- 2 Check the level of detergent and rinse aid in their containers.
- 3 Make sure that the tank grid and filters are in place and that the wash arms turns.
- 4 Switch ON the power supply.
- 5 Press the ON/OFF button to fill the tanks with water.

The filling and heating time is approx. 12 min at 55 °C water inlet temperature. The appliance is ready to operate when the arrow on the CONFIRM button is green.

- 6 Choose wash program by pressing P until the program (digit) appears in the display.
 - P1 Glassware 1 min
 - P2 Dishware 2 min
 - P3 Flatware 3 min
 - P4 Utensils 8 min



NOTE

As long as correct temperature in the wash tank is not achieved, thermostop for wash tank will be activated.

The machine will not be able to start. The CONFIRM button and chosen program will be blinking waiting for correct temperature.



NOTE

If correct temperature is not achieved during the rinse cycle, thermostop for rinse tank will be activated. The countdown of time will stop and the rinse temperature will start blinking.

When correct temperature is reached the program and countdown continues.

**NOTE**

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

4.3 Load the dishes

Remove food remains like bones, peel, nuts from the plates. If there are food left such as dried cheese or egg leave the plates to soak in cold water.

Put the glasses in the basket with their stem upwards.

Use the cutlery basket for cutlery. Put the cutlery loose in the basket, preferably with the handle at the bottom. Be careful not to injure yourself on the fork prongs and knife blades.

4.4 Wash baskets

1 Glassware wash rack for glasses and mugs (28149)

Capacity: 25 glasses/mugs ø 90 mm.

See Fig. 1 *Glassware wash rack*



Fig. 1 Glassware wash rack

2 Dish ware wash rack for dinner or soup plates (28148)

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

See Fig. 2 *Dish ware wash rack*

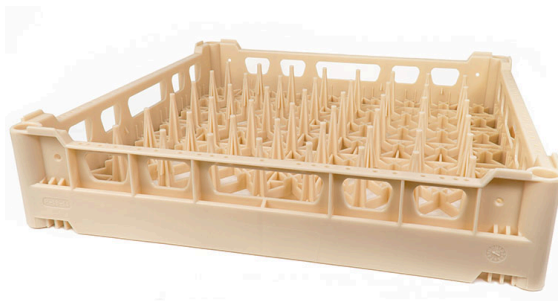
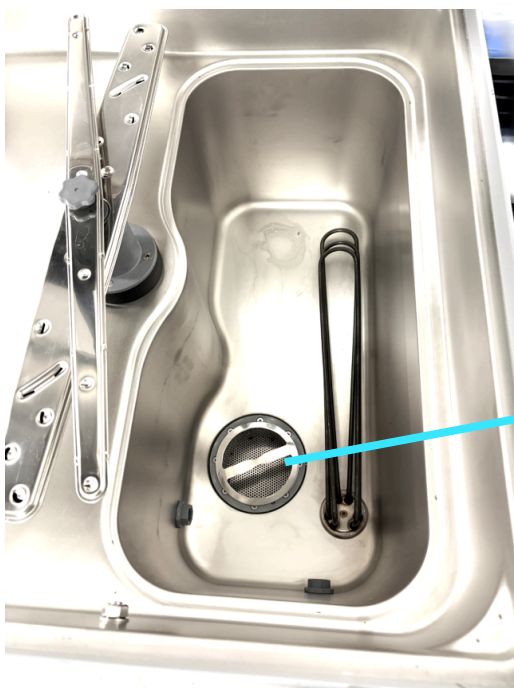
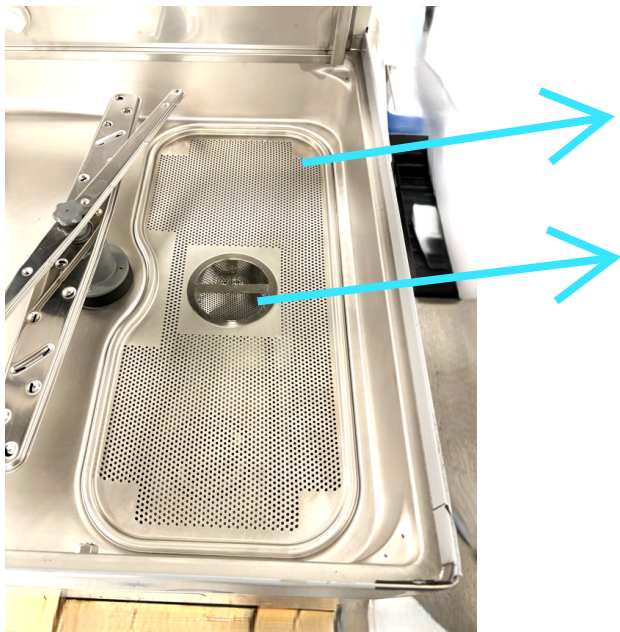


Fig. 2 Dish ware wash rack

5 Daily cleaning

Clean grid and filters

- 1 Push the ON/OFF button to empty the water tanks.
- 2 When the tanks are empty of water switch the power supply OFF!
- 3 Remove the grid and the filters.

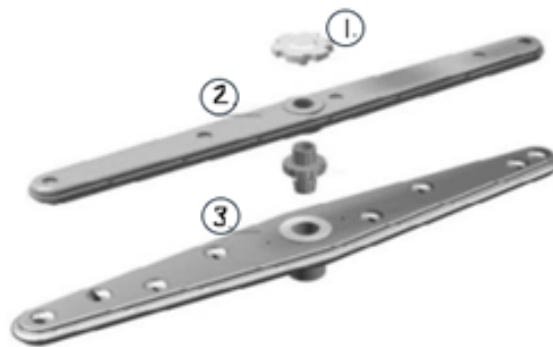


4 Clean and flush the grid and the filters thoroughly.

5 Put the grid and the filters back to their places.

Clean wash arms and rinse arms

- 1 Switch OFF the power supply
- 2 Remove the upper and the lower wash arms and rinse arms.
- 3 Undo the nut (1) and remove the wash arm and the rinse arm.



- 4 Clean and flush the arms thoroughly.
- 5 Put the arms back again.
- 6 Leave the hood open to let air circulate.



NOTE

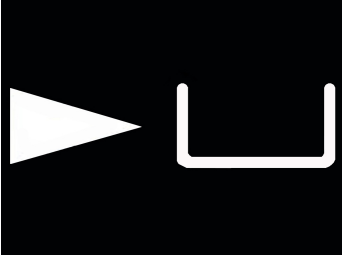
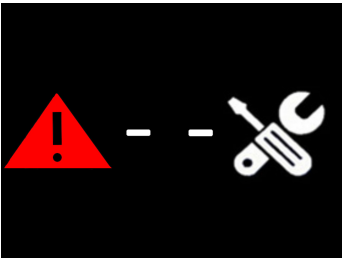
If the appliance is not going to be used for quite some time you have to empty the detergent and rinse aid dispensing device to avoid crystallizations and damages to the pump.

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.

6 Error icons in the display

ERROR ICONS	MEANING	SOLUTION
	Failed filling wash/ rinse tank charging time exceeded.	Pressing start resets the time hence re- peating the load. 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.

7 Troubleshooting

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
The wash cycle fails to start.	<p>The machine has not yet been filled.</p> <p>The machine has not reached the appropriate temperature yet.</p>	Wait until the CONFIRM button has turned green.
Poor washing result.	<p>The spray arms are clogged, or scale is obstructing them.</p> <p>Not enough or unsuitable detergent or rinse aid.</p> <p>Plates/glasses not positioned correctly.</p> <p>Too low wash temperature.</p> <p>The set cycle is unsuitable.</p>	<p>Dismantle and clean the spray arms.</p> <p>Check the type and concentration of detergent/ rinse aid.</p> <p>Arrange the plates/ glasses correctly.</p> <p>Check the temperature – if too low, call for technical assistance.</p> <p>Choose a longer program.</p>
Insufficient rinsing.	The spray nozzles are clogged, or scale is obstructing them.	Dismantle and clean the spray nozzles.
The glasses and cutlery are stained.	<p>The rinse aid is unsuitable or is not dispensed correctly.</p> <p>Water hardness above 4 °dH or high dissolved salt content.</p>	Check the rinse aid container and if it is suitable for the type of mains water. If the problem persists, contact chemical supplier.
Water in the tank after draining.	The drain is partially obstructed.	<p>Check if the dishwasher drain are obstructed and if the drain is positioned too high up; maximum 400 mm.</p> <p>Check the sieves in the machine.</p>

8 Notes
