

D1 Core

User Manual

Serial # D1C 01 00001



NOR:DISK
CLEAN SOLUTIONS

Jägershillgatan 13

SE-213 75 MALMÖ, Sweden

Art. no EN31176

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No responsibility is taken for any printing errors.

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EU DECLARATION OF CONFORMITY

Original

Directive 2006/42/EC, Annex II 1A

Manufacturer (and where appropriate the authorised representative):

Representative:

Nordisk Clean Solutions

Address:

Jägershillsgatan 13, 213 75 Malmö

Hereby declares that

Type of machinery:

Dish washing machine designed
for use in commercial kitchens

No. of machinery:

D1 Core D1C 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:

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Place and date:

Malmö, 01.03.2024

Signature:



Name:

Mikael Samuelsson

Position:

CEO

1 General descriptions and safety

1.1 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 machine specific information and knowledge (see chapter about SIMpel in this manual).

User manual in original

1.2 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 D1 Core is a professional machine. It must be used by adults and authorized personnel only. It must be installed and repaired exclusively by a qualified technician. The manufacturer declines all forms of responsibility deriving from improper use, maintenance and repairs.

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.
- The machine is designed only and exclusively to wash glasses, dish ware and cookware soiled with residues of human food.
- 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.



WARNING

The machine uses hot water. Risk of scalding.

Do not open the door of the dishwasher during operation.

The dishwasher is equipped with a safety device that immediately stop the wash cycle to avoid the leakage of water if the doors should be opened accidentally. Always remember to switch the dishwasher off and to empty the tank before accessing it to clean it or for any other reason.



ELECTRICAL

Do not use water to extinguish fire on electrical parts.

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.

1.3 Technical data D1 Core

General

| | |
|---|---|
| Design | Under counter dish washing machine |
| Rack size | 500 x 500 mm |
| | Dish ware wash— basket (Polypropylene) |
| | Glass ware wash— basket (Polypropylene) |
| External dimensions H x W x D (Door open) | 825 mm (+11 mm) x 565 mm x 630 mm (1010 mm) |
| Clearance (Loading height) | 350 mm (325 mm) |
| Weight (empty / filled) | 47 kg/ 76 kg(Standard machine) |
| Tank volume | 23 liters |
| Rinse tank volume | 5,5 liters |
| Rinse water volume | 2,6 liters |
| Wash water temperature*** | 60 °C |
| Rinse water temperature*** | 85 °C |
| Sound pressure level | <62 dB(A) ISO 11203 |

PROGRAMS & CAPACITY

| | |
|-------------------------------------|---|
| Wash programs | P1 (glassware) 1 min. 30 sec. P2 (dishware) 2 min. P3 (flatware) 3 min. P4 (utensils) 8 min. |
| Capacity per program | 18 Dinner plates or 12 Soup plates Ø 240 mm. 25 Glasses/mugs Ø 90 mm |
| Start-up time (filling and heating) | 25 min at 55 °C inlet water temperature |

ELECTRICAL CONNECTION

| | |
|----------------------|---------------------------------|
| Voltage** | 380 / 400 / 415 V / 3N~ / 50 Hz |
| | 230 V / 3N~ / 50 Hz |
| | 230 V / 1N~ / 50 Hz |
| Fuse | 10 A (400 V / 3N~) |
| | 16 A (230 V / 3N~) |
| | 25 A (230 V / 1N~) |
| Frequency | 50 Hz |
| Maximum output | 4,9 kW |
| Dishwashing pump | 0,40 kW |
| Rinse pump | 0,18 kW |
| Heater wash tank* | 2,5 kW |
| Heater rinse tank* | 4,5 kW |
| Enclosure rating**** | IPX1 |

WATER CONNECTION

| | |
|---------------------|---------------------------------------|
| Hardness/Connection | Total hardness: < 4 °dH; 7 °f; 70 PPM |
| | Inlet hose with ¾" female - 1,5 m |
| | 200 – 500 kPa (2 – 5 bar) |

VENTILATION & DRAIN

| | |
|--|----------------------------|
| Ventilation requirements | 300 m³/h |
| Heat emitted to room (total/sensible/latent) | 1,9 kW / 1,1 kW / 0,8 kW |
| Drainage | Drain hose Ø 28 mm - 1,4 m |
| Drain capacity requirement | 50 l / min. |
| Drain water temperature | 65 °C |
| Drain pump (standard) lift capacity | 40 W |
| 400 mm | |
| Maximum lift height drain pump | 400 mm |

DETERGENT & RINSE AID

Liquid rinse aid dosing dispenser with a peristaltic pump is integrated into 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 local standards.

**** Never clean the outside of the machine with water. Use only a damp cloth.



NOTE

The machine must be installed according to national regulations. The machine is supplied with a electric cable (1,5 meter) to be connected to an approved supply disconnecting device on the wall. The supply disconnecting device is not included in the delivery.

1.4 SIMpel™ – easy access to information

To make it easier for the operator to find information and how to use the unit there is a sticker with a QR-code placed on the machine's front.

Scan the QR code on the sticker.



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



Explanation of the different boxes:

| | |
|----------------------------|---|
| 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 Clean.com |
| 6. CONTACT INFORMATION | Not in use |

2 Operating

2.1 Control panel

CONTROL PANEL



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



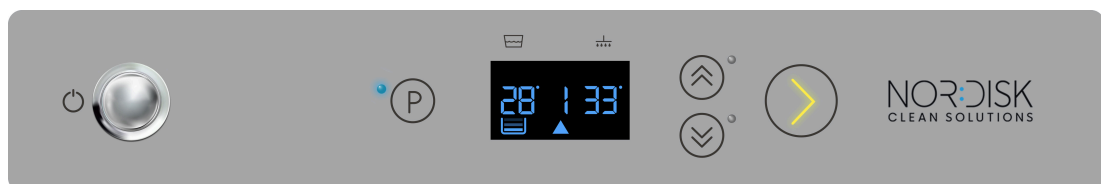
NOTE

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.

2.2 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 filter 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. 25 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.
 - P 1: Glassware 1 min and 30 sec.
 - P 2: Dishware 2 min.
 - P 3: Flatware 3 min.
 - P 4: 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 the digits on the display will be blinking, waiting for the temperature to raise.



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.

2.3 Load the wash ware

Use the dedicated wash basket to load the dish ware. Slide the wash basket into the machine and close the machine door.



Glassware wash rack for glasses and mugs(30658)



Dish ware wash rack for dinner or soup plates(30657)

3 Daily clean

3.1 Clean the filter

Follow the instruction:

1. Press the start/stop button to empty the water from the tank. The drain starts immediately after the button is pressed.
2. When the tank is empty: Switch the power supply OFF!
3. Remove the filter.
4. Clean the filter.
5. Rinse the filter thoroughly with running water.
6. Put the clean filter back to its place again.

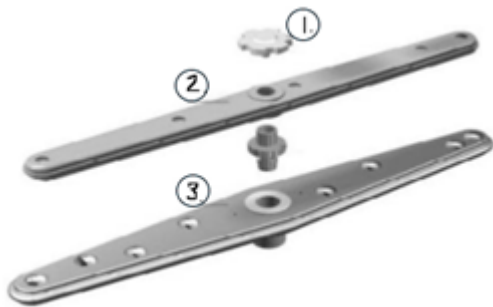


3.2 Clean the wash arms and the rinse arms

The wash arms and the rinse arms needs to be cleaned at the end of the day. The arms are attached with a nut that is easy to remove with your hand.



Remember to clean the upper wash arms.



Follow these instructional steps:

1. Undo the nut(1) and remove the arms(2 and 3).
2. Clean the arms and rinse them thoroughly with running water.
3. Put the arms back to their place again.
4. Do not tighten the nuts to hard.

When you are done cleaning you can leave the machine's door open to let air circulate.



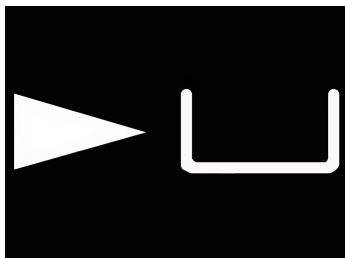
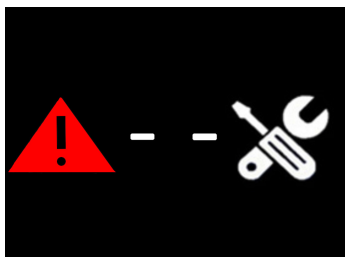
NOTE

If the appliance is not going to be used for quite some time you have to:

- 1. Empty the detergent and rinse aid dispensing device to avoid crystallizations and damages to the pump.*
- 2. Remove the priming pipes from the detergent and rinse aid containers and soak them in a container of clean water.*
- 3. Run some wash cycles and empty the machine completely.*
- 4. Finally, switch off the power supply (main off/on switch) and turn off the water (water supply inlet tap).*

3.3 Error icons and troubleshooting

Error icons in the display

| ERROR ICONS | MEANING | SOLUTION |
|--|---|--|
|  | Failed filling wash/ rinse tank charging time exceeded. | Pressing start resets the time hence repeating 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 technical assistance. |

Troubleshooting

| PROBLEM | POSSIBLE CAUSE | POSSIBLE SOLUTION |
|-------------------------------------|--|---|
| The mains light fails to switch on. | Mains are not connected. | Check the electric mains connection. |
| The wash cycle fails to start. | The machine has not yet been filled. The machine has not reached the appropriate temperature yet. | 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. | <p>The spray holes on the rinse arms are clogged with food, or scale is obstructing them.</p> | <p>Dismantle and clean the rinse arms. Follow instructions in chapter 3.2.</p> |
| The glasses and cutlery are stained. | <p>The rinse aid is unsuitable or is not dispensed correctly.</p> | <p>Check the rinse aid container and if it is suitable for the type of mains water. If the problem persists, contact chemical supplier.</p> |
| Water in the tank after draining. | <p>The drain filter is obstructed.</p> | <p>Clean the filter. Follow instructions in chapter 3.1.</p> |