

C6

User Manual



Art. no EN29622

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www.nordiskclean.com

Tel. +46 40 671 50 60

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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):

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

Hereby declares that

Type of machinery: Pot washer for commercial
kitchens
No. of machinery: C6

Complies with the requirements of Machinery Directive 2006/42/EC.

Complies with the applicable requirements of the following EC directives:

2014/30/EU, EMC

2011/65/EU, RoHS

2012/19/EU, WEEE

The following harmonized standards have been applied:

EN 60204-1:2018

SS-EN 60335-1:2012

SS-EN 60335-2-58:2019

SS-EN 55014-1:2017

SS-EN IEC 61000-6-1:2019

SS-EN IEC 61000-6-2:2019

SS-EN 61000-6-3:2007

IEC 61000-6-3:2006/AMD1:2010

The following other standards and specifications have been applied:

SS-EN 1717:2000

SS-EN 13077:2018

Authorized to compile the technical file:

Name: Staffan Stegmark
Address: Jägershillsgatan 13, 213 75 Malmö

Signature:

Place and date: Malmö, 26.04.2024
Signature:



Name: Mikael Samuelsson
Position: CEO

1 General Description and Safety

1.1 To the user

C6 is a pot washing machine for commercial kitchens.

This manual is your guide for the correct use of the C6 pot washing machine.

Nordisk Clean Solutions recommends that you study the manual thoroughly to be sure that the machine is installed and used correctly and safely.

Ensure that the manual is always available during the whole lifetime of the machine.

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

User manual in original.

1.2 Safety regulations



NOTE

Read the safety notes and operating instructions in this manual carefully. Keep the operating instructions for future reference. Nordisk Clean Solutions does not assume liability or warranty in case of non-adherence to these safety and operating instructions.

Do not make changes, additions or reconstructions in the pot washer without the approval of the manufacturer. Use the pot washer only after you have read and understood the user manual. Allow Nordisk Clean Solutions to provide information about the operation and functioning of the pot washer.

Always operate the machine as described in these operating instructions. Train the operating personnel about handling of the machine and inform them about the safety notes. Repeat the training sessions at regular intervals to prevent accidents.

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

Close the on-site water shut-off valve after the work is complete. Switch off the local mains disconnecter after the work is complete.



WARNING

RED LIGHT: Indicates the machine is filling/heating or working. Do not open the door!

GREEN LIGHT: Indicates that the machine is ready to use.

See



Fig. 1 Red and green light

**WARNING**

Do not open the door during a wash cycle! Risk of burn.

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!

**WARNING**

It is not allowed to sit or stand on the door.

**NOTE**

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.

1.3 Technical data C6

GENERAL

Design	Round rotating stainless steel basket
External dimensions	2079 (± 25) x 1025 x 1317 mm
	H x W x D (open)
Weight	354 kg (filled machine)
	238 kg (empty machine)
Tank volume	108 liter
Loading volume	220 litres (\varnothing 700 mm x H 570 mm)
Rinse water volume	6 litres
Wash water temperature	65 °C
Rinse water temperature	85 °C
Sound pressure level	< 74 dB (A) ISO 11203

PROGRAMS & CAPACITY

Wash programs	Short: 2 min, 30 sec (3 min, 30 sec with Steam reduction or EcoExchanger)
	Normal: 4 min (5 min with Steam reduction or EcoExchanger)
Max. / normal capacity per hour mode (normal capacity incl. handling)	Standard Edition: 144/108 GN 1/1 or similar in other pots
	FreeFlow Edition: 144/126 GN 1/1 or similar in other pots
Capacity per program	6 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 the equivalent utensils.

ELECTRICAL CONNECTION

Voltage**	3~ 400-415V/50 Hz or 60 Hz + PE
Fuse (at output 11,5 kW)	25 A (400V/415V)
Fuse (at output 16.5 kW)	32 A (400/415V)
Frequency	50 Hz or 60 Hz
Maximum output	11.5 kW (hot fill)
	16.5 kW (cold fill or hot fill)

Wash pump motor	2,2 kW
Rinse pump motor	0,11 kW
Heater wash tank*	9 kW at output 11,5 kW 14 kW at output 16,5 kW
Heater rinse tank*	9 kW at output 11,5 kW 14 kW at output 16,5 kW
Enclosure rating	IPX5

WATER CONNECTION

Hardness/Connection	Total hardness: 3-7 °dH, 5-12 °TH, 53-125 PPM ¾" BSP male (DN20) NB! Reverse osmosis water and to- tally softened water must not be used.
Connection A	11.5 kW unit: 100-600 kPa (1-6 bar), 15 l/min, 55-65 °C (hot fill) 16.5 kW unit: 100-600 kPa (1-6 bar), 15 l/min, < 20 °C (cold fill or hot fill)
Connection F	11.5 kW/16.5 kW with steam reduc- tion: 300-600 kPa (3-6 bar), 15 l/min, < 20 °C 16.5 kW with EcoExchanger: 300- 600 kPa (3-6 bar), 15 l/min, < 20 °C

VENTILATION & DRAIN

Ventilation without steam reduction	500 m³/h
Ventilation with steam reduction	200 m³/h
Ventilation with EcoExchanger	100 m³/h
Heat emitted to room without steam reduction (total/sensible/ latent)	2.4 kW / 0.8 kW / 1.6 kW
Heat emitted to room with steam reduction (total/sensible/latent)	1.7 kW / 0.8 kW / 0.9 kW
Heat emitted to room with EcoEx- changer (total/sensible/latent)	1.3 kW / 0.8 kW / 0.5 kW
Drainage pipe	Pipe Ø 32 mm (outer diameter)

Drain

Capacity requirement 50 l/min

No drain pump, gravity drain

The machine must not be placed directly over a drain.

DETERGENT & RINSE AID

Detergent and rinse aid

Required. 230 VAC signal is available from separate box.

Max load total 0,5 A

* Not in use simultaneously

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



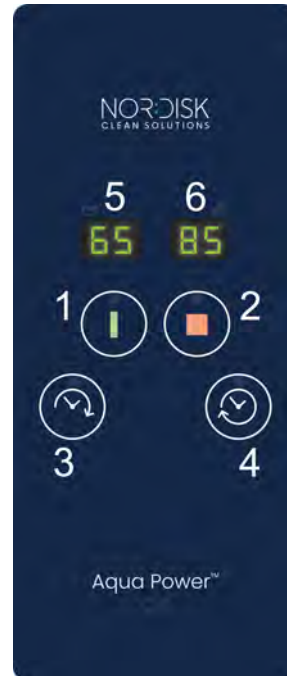
NOTE

C6 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.

2 Operating

2.1 Control panel

1 Confirm button



2 Stop button

3 Short program

4 Long program

5 Wash tank temperature

6 Rinse tank temperature

2.2 Start up procedure

- 1 Switch on the main electrical switch and close the door. The display lights up.
- 2 Close the drain valve on the front of the machine.

See Fig. 2 *Drain valve*

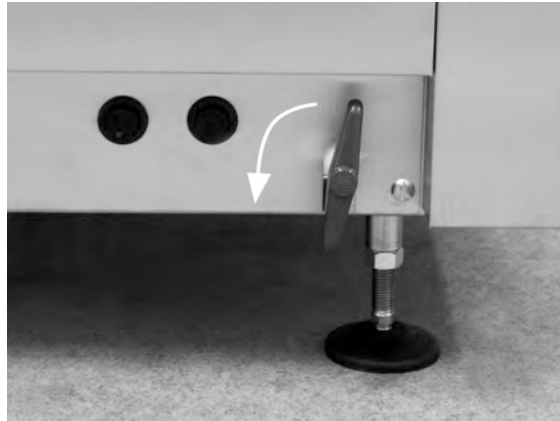


Fig. 2 Drain valve

- 3 To fill the machine press the Confirm (1) button. The machine starts filling and heating. During this phase the red light is on.
- 4 The machine is ready to use when the green light comes on. The filling and heating time depends on whether the machine has hot or cold water connection.
- 5 To start a program choose either Short or Normal program.
- 6 Load the basket.

All utensils must be loaded with the inside facing the spray pipes, thus outwards. It is important that all items are firmly in place when being washed.

Take the basket half way out of the machine (the basket standing partly on the door.)

When the basket is loaded with pots and pans, slide the wash basket into the machine. The basket is designed so that you clearly feel when the basket is placed correctly on the basket wheel.

Check that nothing is sticking out from the basket's sides or



Fig. 3 Loading and unloading

bottom. The basket rotation must not be hindered.

See Fig. 3 *Loading and unloading*

Preparing utensils

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

See Fig. 4 *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. 4 Scrape off food

- 2 Pots and pans containing moist protein-rich food remains may need a splash of water before being loaded into the machine.

2.3 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.

See Fig. 5 *Pro Wash basket*

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

See Fig. 6 *Pro Wash basket with small GN containers*

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

See Fig. 7 *Two GN 2/1*



Fig. 5 Pro Wash basket



Fig. 6 Pro Wash basket with small GN containers



Fig. 7 Two GN 2/1

Unfold the spikes.

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

Maximum 6 pieces.

See Fig. 8 *Loading of lids, grids, chopping boards and baking trays*

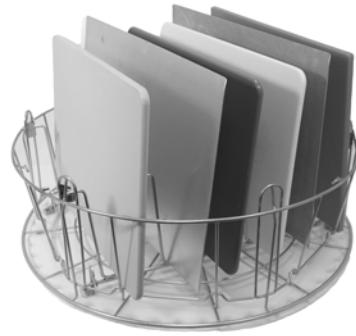


Fig. 8 Loading of lids, grids, chopping boards and baking trays

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. 9 *Loading of smaller pots*



Fig. 9 Loading of smaller pots

Loading of mid sized pot and big pot.

See Fig. 10 *Loading of mid sized pot and big pot*



Fig. 10 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. 11 *Utensil basket*

See Fig. 12 *Utensil basket loaded inside Pro Wash basket*



Fig. 11 Utensil basket



Fig. 12 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. 13 *Pro Wash basket with a mix of different wash ware*



Fig. 13 Pro Wash basket with a mix of different wash ware

2.4 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. 14 *Flexible pot holder*

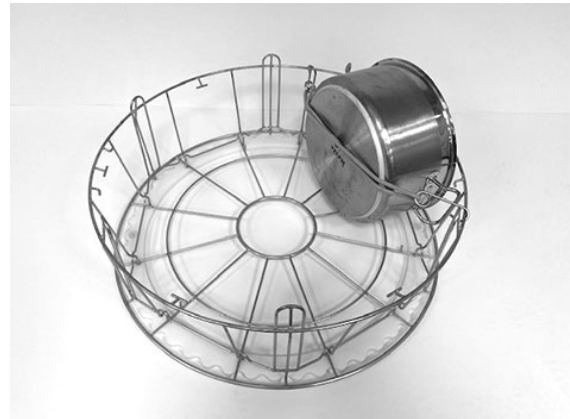


Fig. 14 Flexible pot holder

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. 15 *Pot basket*



Fig. 15 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. 16 *Pot basket*

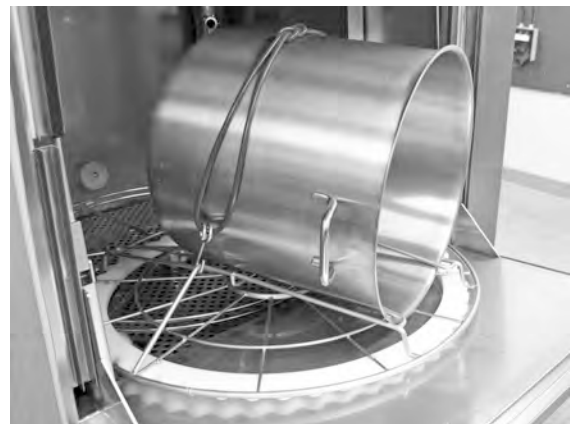


Fig. 16 Pot basket

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. 17 *Multiflex holder*

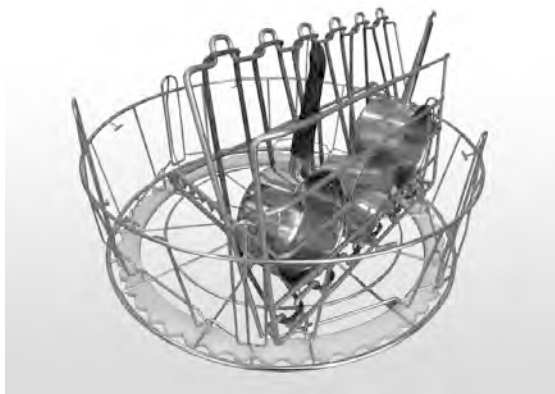


Fig. 17 Multiflex holder

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. 18 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. 19 *Wash basket with bottom grid*

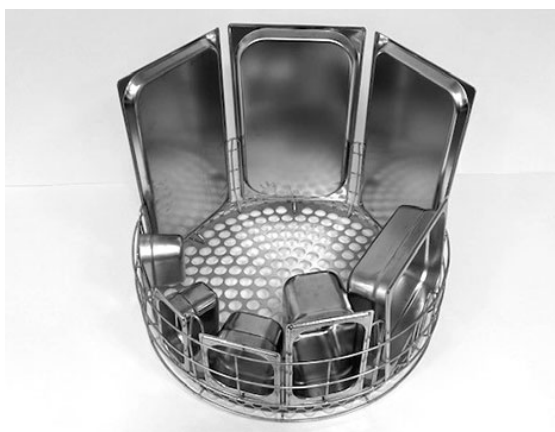


Fig. 19 Wash basket with bottom grid

3 Daily cleaning

3.1 How to lower the door

To facilitate the cleaning of the machine the door can be lowered.

When the door is lowered, it is easier to reach all parts inside of the machine.

Follow the steps below:

- 1 Pull the red knob (A) upwards and move it backwards (B) until it reaches (C).

See Fig. 20 *Move the arm backwards*

See Fig. 21 *Secure the arm properly*

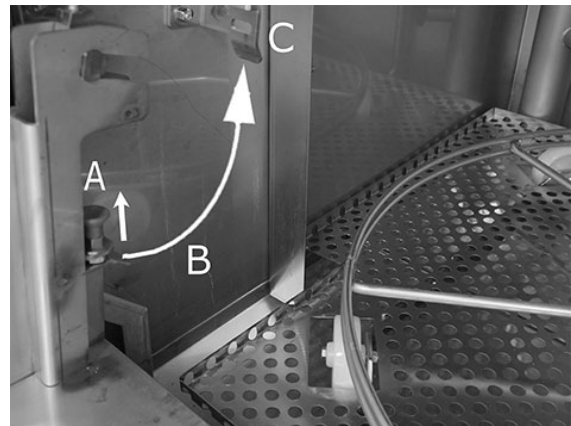


Fig. 20 *Move the arm backwards*

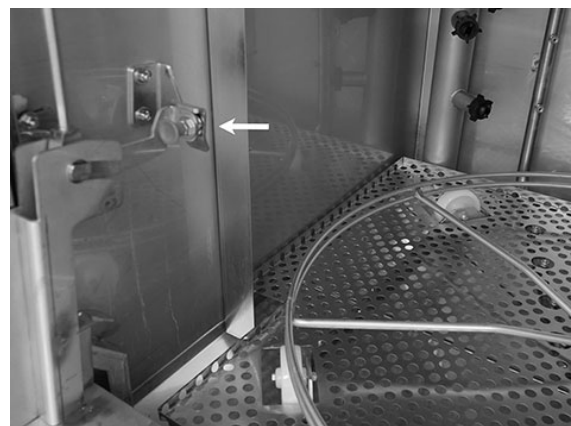


Fig. 21 *Secure the arm properly*

- 2 Make sure it secures correctly. You will hear a “click”.

Fig. 22 *Close up – secure the arm properly*



Fig. 22 Close up – secure the arm properly

- 3 Keep a hand under the door to hold the weight of the door. Repeat the same procedure on the other side.

See Fig. 23 *Keep a hand under the door*



Fig. 23 Keep a hand under the door

- 4 When both arms are secured the door is released and can be lowered.

See Fig. 24 *Lowered door*

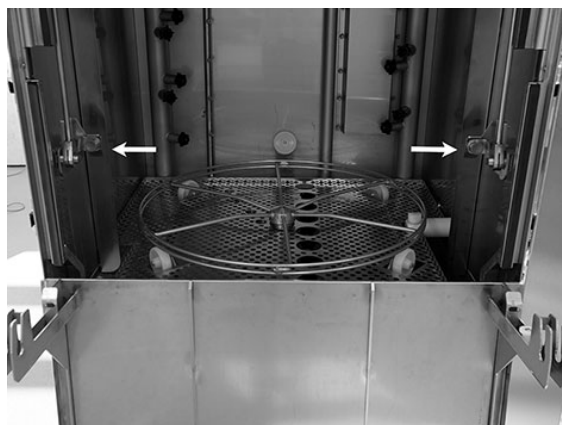


Fig. 24 Lowered door

- 5 When ready with the daily cleaning the door needs to be put back in place.

Raise the door to its upper position.

Do the same procedure but in the opposite direction.

Release the knob (A), pull it down (B) and secure it (C) until you hear a "click".

The arms must be secured properly on both sides.

See Fig. 25 *Same procedure – opposite direction*

- 6 The hatch is now back in position and the machine is ready for use.

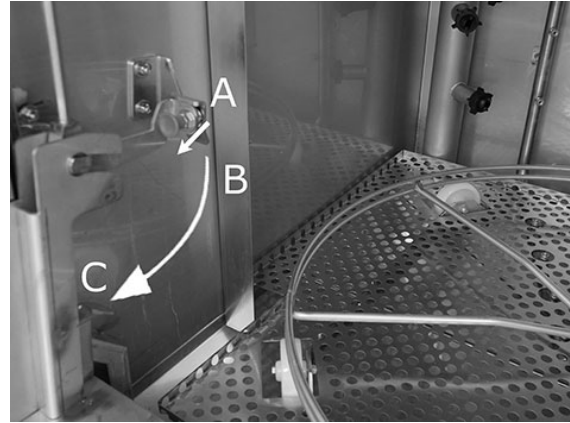


Fig. 25 Same procedure – opposite direction

3.2 Cleaning inside the machine

- 1 Press STOP button (2) and open drain valve to empty wash tank.

See Fig. 26 *Open drain valve*



Fig. 26 *Open drain valve*

- 2 Switch off at the main electrical switch.
- 3 Take the basket wheel out.

See Fig. 27 *Basket wheel*

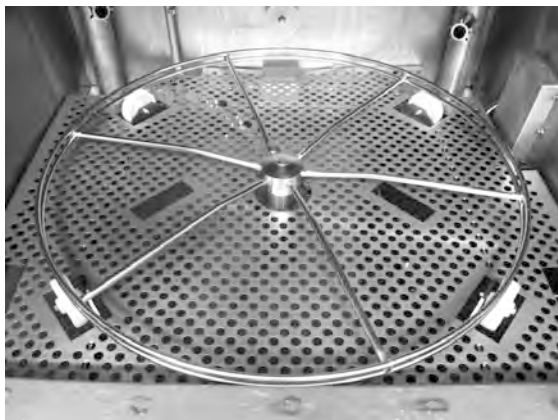


Fig. 27 *Basket wheel*

- 4 Lift the tank grid out by the handles.

See Fig. 28 *Tank grid*

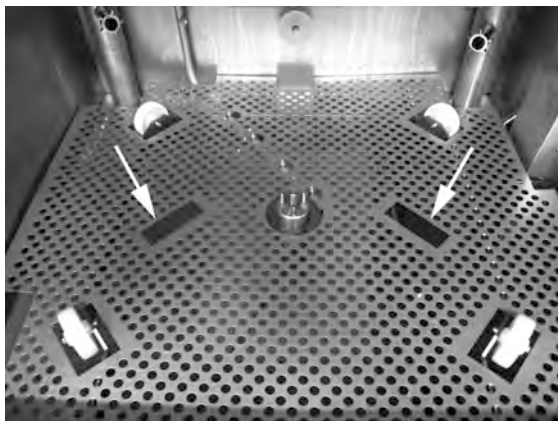


Fig. 28 *Tank grid*

- 5 Clean and flush the parts with water
- 6 Flush the inside of the tank with pure water.
- 7 Clean and flush bottom sieve (A) with water. Make sure there are no food residues on the sieve.

See Fig. 29 *Bottom sieve, level sensor and rollers.*

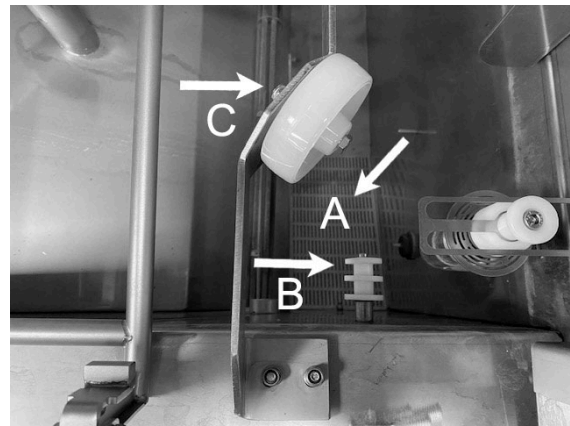


Fig. 29 *Bottom sieve, level sensor and rollers.*

- 8 Wipe off level sensor (B) with a clean cloth.
See Fig. 29 *Bottom sieve, level sensor and rollers.*
- 9 Check that the rollers (C) supporting basket wheel rotate freely.
See Fig. 29 *Bottom sieve, level sensor and rollers.*

- 10 Check the operation of the tap on the overflow drain.

Make sure it is positioned correctly.

Clean if required.

See Fig. 30 *Overflow tap*

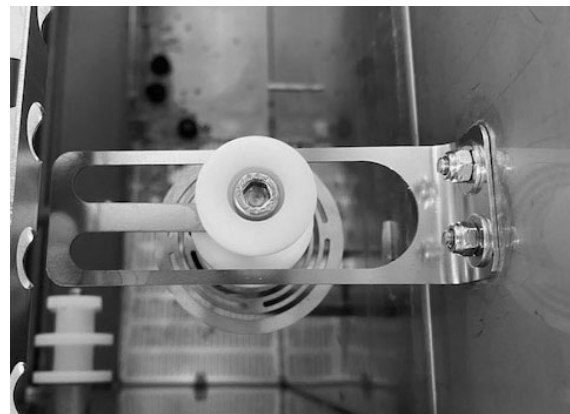


Fig. 30 *Overflow tap*

- 11 Clean the inner seal with a damp cloth.

See Fig. 31 *Clean underneath*



Fig. 31 *Clean underneath*

- 12 Wipe the inside of the lowered door with a damp cloth.

See Fig. 32 *Lowered door*



Fig. 32 *Lowered door*

- 13 Wipe the door frame with damp cloth.

See Fig. 33 *Door frame to clean*



Fig. 33 *Door frame to clean*

- 14 If present, clean or flush the EcoExchanger inside the cabin. (The box on top of the roof will be cleaned by a service technician when servicing the machine - every 10.000 cycle.)

The interior of the heat exchanger will be cleaned by the service technician doing the regular preventive service.

See Fig. 34 *EcoExchanger as seen inside the machine cabin*

- 15 For video instructions use the QR code and watch the daily cleaning on Youtube

See Fig. 35 *QR code*

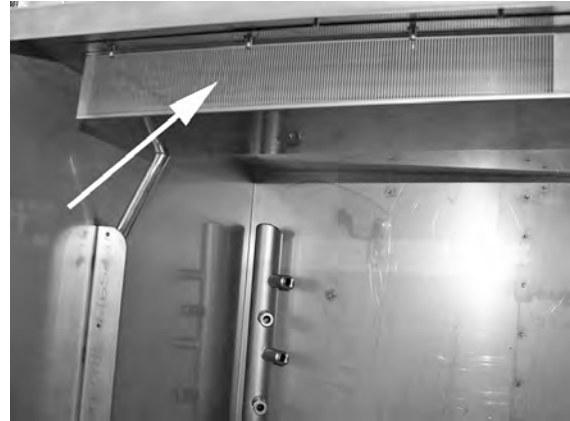


Fig. 34 EcoExchanger as seen inside the machine cabin



Fig. 35 QR code



NOTE

The outside of the machine should **not** be washed with high-pressure water.

Replacement of cleaned items

- Put back bottom sieve if it has been unscrewed.
- Put back tank grid
- Put back basket wheel

**NOTE****Over night and at longer stoppages**

- Ensure that wash tank is empty after cleaning.
- At longer stoppages, any water remaining at the bottom of the tank should be removed with a sponge or similar absorbent.
- After a long stoppage, check operation of the machine according to service manual, possibly with the assistance of a service engineer.

4 HACCP Hygiene and download of data

General

Nordisk Clean Solutions Documentation Tool, GDTdirect™, is an integrated function for the documentation of the pot washing machine's operating parameters and critical hygiene control points, HACCP. The following can be viewed:

- Operating data for the last 200 wash program run.
- Accumulated consumption of water and electricity since the start up of the machine.

Download of operation data from USB port.

- 1 Press stop.
- 2 Insert a USB stick.

The USB port is found on the right side of the machine.

- 3 Hold and press Short program (1), Long program (2) and Hidden button (3) for 3 sec.

See Fig. 36 *Display with hidden button*

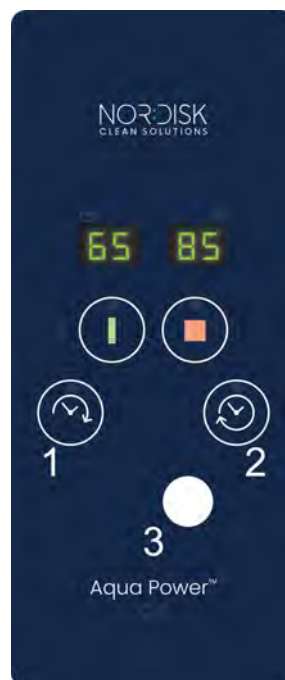


Fig. 36 Display with hidden button

- 4 After 10 seconds the Confirm button lights up in green. Take out the USB stick.
- 5 Make sure to close the protective cover cap by pressing it firmly after each use.

5 Trouble shooting and alerts

5.1 User related notices

- When an alert is displayed, the program is always interrupted.
- After checking and taking care of the problem, the alert can be reset by pressing the STOP button.

Error code	Meaning	Cause	Remedy
116	Low water level, problem with foam.	Foam forming in the machine	Avoid using detergent designed for washing up by hand. Change the wash water. Contact the detergent supplier if the problems with foam formation still persist. Reset the alarm by pressing the STOP button.
118	Drain valve not closed	The drain valve has opened during an active process in the machine.	Close the drain valve and reset the alarm by pressing the STOP button.
132	Clean level sensor	Level sensor is probably dirty or water is not exchanged after longer shut down period.	Lower the level and clean the level sensor in the wash tank. Refill the tank. If sensor is already cleaned, reset the error and set the machine in heating mode for continued heating

5.2 Error codes

The meaning of the error codes can be read out form the table below.

Error code	Meaning	Cause	Remedy
001		Program interrupted by operator.	This error code is displayed only when operating data is read.
103	Motor protector for rinse pump tripped.	The motor is overloaded, program is interrupted.	Contact a service engineer!
104	Overheating protector for rinse pump tripped, program is interrupted.	The rinse tank heater has overheated.	Clean level sensor. Reset overheat protection. If error code recurs in the next few hours, call a service engineer.
105	Overheating protector for wash tank tripped, program interrupted.	The wash tank heater has overheated.	Clean level sensor. Reset overheat protection. If error code recurs in the next few hours, call a service engineer.
107	Temperature not reached in wash tank	Temperature in wash tank not reached, program interrupted.	Reset the alarm by pressing the STOP button. If the alarm recurs, contact a service engineer.
108	Temperature not reached in rinse tank	Temperature in rinse tank not reached, on-going process interrupted.	Reset the alarm by pressing the STOP button. If the alarm recurs, contact a service engineer.
110	Temp sensor rinse tank not working.	The temperature sensor in the rinse tank is broken.	Contact a service engineer!
111	Temp sensor wash tank not working	The temperature sensor in the wash tank is broken	Contact a service engineer!

Error code	Meaning	Cause	Remedy
112	Water level too low in rinse tank.	The level in the rinse tank has fallen incorrectly.	Contact a service engineer!
113	Water level too low in wash tank.	The level in the wash tank has fallen incorrectly.	Contact a service engineer!
114	Long wash tank filling time.	Wash tank filling has exceeded its time limit.	Check the water supply to the machine, as well as the rinse pump. Clean the rinse nozzles. Reset the alarm by pressing the STOP button. If the alarm recurs, contact a service engineer.
115	Long rinse tank filling time	Rinse tank filling has exceeded its time limit.	Check the water supply to the machine, as well as the solenoid valve for rinse tank filling. Reset the alarm by pressing the STOP button. If the alarm recurs, contact a service engineer.
117	Long rinse time.	Too long rinse time. Correct water volume has not been reached in time.	Clean the rinse nozzles. Reset the alarm by pressing the STOP button. If the alarm recurs, contact a service engineer.
130	IO board not tested at manufacture.	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!

Error code	Meaning	Cause	Remedy
134	Level detection function in the rinse tank is out of order.	False level signal from one of the level sensors in the rinse tank.	Turn the machine OFF! Continued operation can cause damage to other components. Contact a service engineer!
143	ID error.	Electrical error, identity outside range.	Contact a service engineer!
144	Wrong incoming voltage to IO circuit board.	Wrong incoming voltage to IO circuit board.	Continued operation can cause damage to the machine. Contact a service engineer.

6 Notes
