



Operator Manual

NA 64-- series gravity



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1 Introduction

1.1 Purpose

The purpose of this Operator Manual is to provide the operator with information relating to the use and maintenance of the NA 64-- series gravity.



Read this Operator Manual carefully before using the machine.

1.2 Manufacturer

Win Equipment B.V.
De Kronkels 31
3752 LM Bunschoten
The Netherlands





Dealer mark



1.3 Machine identification

The machine plate is affixed to the rear of the machine. This plate carries the CE mark. This means that the machine meets the basic health and safety requirements of the European Union.

 		NISSEI FREEZER <small>Hermetically sealed system contains fluorinated greenhouse gases.</small>	
MODEL	NA6468WEG	R404A charge	2 x 730 Gram
SERIAL NR.	C8170001	GWP	3922
POWER 50Hz	400V ; 3 Phase	CO ₂ equivalent	5,726 Ton
Dasher motor	2 x 550 W	Test pressures:	
Compressor	2 x 1100 W	High side	2.1 MPa
Consumption	2 x 3.6 A	Low side	1.5 MPa
<small>MANUFACTURER :</small> NISSEI COMPANY LTD <small>2-11 3-CHOME HAGINOSHO, TAKATSUKI-SHI,OSAKA-FU, 569-0093 JAPAN</small>		<small>IMPORTER E.U. :</small> WIN EQUIPMENT B.V. <small>De KRONKELS 31 3752LM BUNSCHOTEN the NETHERLANDS</small>	

1.4 Warranty

The dealer offers on new machines a 5-year warranty on expensive parts and a 12-month warranty on non-wearing parts and repair costs. This is in accordance with the conditions specified in the order confirmation.

1.5 Accessories

The following items are supplied with the machine:

- Operator manual
- O ring remover
- Cleaning brush, narrow and wide
- Tube of lubricant (Petrogel)
- O ring replacement set
- Set of fuses

1.6 Liability

The dealer is not liable for any unsafe situations, accidents and/or damage resulting from any of the following points:

- Failure to observe warnings or instructions as displayed on the machine or in this Operator Manual.
- Use of the machine for applications or under conditions other than those specified in this Operator Manual.
- Changes of kind made to the machine. This also includes the use of different replacement parts.
- Inadequate maintenance.

The dealer is not liable for any consequential damage due to machine faults, such as damage to products, business interruptions, production loss etc.

1.7 Copyright

Copyright © 2018 Win Equipment B.V.

All rights reserved.

No part of this publication may be copied, stored in an automated data file or made public, in any form or in any way, be it electronically, mechanically, by photocopy, recording or in any other way, without the prior written consent of the manufacturer.

2 Safety

2.1 Symbols used in this manual.

Below you will find an explanation of the symbols that may be used in this manual to draw the attention of the reader to particular situations.



Caution needed:

- an accident may occur or
 - damage may occur to the machine
- Do not do this!!!**



Suggestion to make tasks or actions easier to carry out.



It is important to read the information provided.



Wait before continuing with the next action.

2.2 Emergency stop

The emergency stop button must be pressed immediately if people or machinery are at risk.

The entire machine stops immediately and the power is turned off. The emergency circuit is now in operation.

The operation of the emergency stop is described in chapter 5.4 - 'Emergency stop'.



Use the emergency stop button immediately if people or machinery are at risk.



People who operate the machine must be informed about the operation and location of the emergency stop button.



2.3 Safety symbols on the machine

The following safety symbols have been affixed to the machine:

Location of emergency stop.

This symbol is affixed to the left front side of the machine above the emergency stop button.



Risk of trapping hand.

This symbol is affixed to the top of the machine next to the mix tank.



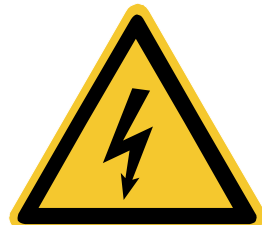
Do not spray with water.

This symbol is affixed to the rear of the machine next to the ventilation slots.



Danger: electricity.

This symbol is affixed inside the housing.



2.4 Safety instructions

The machine meets the basic health and safety requirements of the relevant directives of the European Union.

Improper or careless use can lead to dangerous situations. Please observe the following general safety instructions:

- Connect the machine in accordance with the basic health and safety requirements of the relevant European directives.
- Exercise caution with loose hair and clothing.
- Keep your hands away from dangerous zones.
- Never power up the machine if people are in contact with it.
- Pull the plug out of the socket before carrying out maintenance work on the machine.
- Faulty safety equipment must be replaced before the machine is used in production.
- The machine must be maintained in accordance with the instructions found in chapter 7 - 'Maintenance' on page 26.
- Changes to the machine must not be implemented without the prior consent of the manufacturer.
- The safety equipment of the machine must be checked weekly for correct operation.
- Never remove the machine's plating. There are no parts that you can replace or adjust yourself.
- Do not remove or cover any labels on the machine.



The safety instructions specified in this document must be observed. Deviating from the instructions can cause unacceptable risks.

2.5 Operation and maintenance

The machine may only be operated, maintained and cleaned by trained staff. The end user determines the basis on which staff are authorised for this purpose.

2.6 Hygiene

Good hygiene is very important. Please adhere to the following rules:

- **Clean and disinfect** the machine at least according the hygiene code ice making but at least once every 6 weeks
- **Decalcify** the machine every 2nd and 4th cleaning depending on the pollution, but at least twice a year.
- **Use** the recommended cleaning, disinfecting and decalcify agents to ensure an optimum result.
- **Use** prescribed lubricants only.



Always clean and pasteurize both sides of the machine simultaneously.



Good hygiene ensures better ice cream and satisfied customers.



The operator always remains responsible for good hygiene.

2.7 Storage

To prevent the machine being damage due to frost the machine must always be stored by a temperature between 4°C and 50°C when it is not used.



Prevent damage by frost. Store the machine when it is not used by a temperature between 4°C and 50 °C .

3 Installation



Read this chapter carefully before installing the machine. This is the only way to ensure maximum safety.

3.1 Introduction

The dealer carries out the initial installation. When moving the machine you are advised to contact the dealer.



The machine may only be installed by qualified personnel.

3.2 Installation site

- DO NOT place the machine outside.
- Place the machine on a firm, flat surface (to prevent noise and vibration).
- Keep 10 cm free at the rear and 2 cm at the sides for ventilation.
- Do not place the machine in direct sunlight (not even behind glass) or near to a heat source (e.g. radiator or deep fryer).
- Place the machine in a room with a temperature between +5°C and +35°C.

3.3 Electrical connection

- Connect the plug of the machine to a high-voltage power supply (400 volts, 3 x 16 amps + N + PE).



When setting up the machine, make sure it is not positioned on the connection cable. This can damage the insulation and lead to a short-circuit.

3.4 Connection of cooling water

- Connect the supply hose to a washing machine tap (3/4'' water tap with ventilation). The water pressure must be a minimum of 1 bar and a maximum of 3 bar.
- Connect the discharge hose to the discharge pipe.



When connecting, please observe the local water board connection conditions.

The machine has a check valve. This valve along with aerated faucet prevents the backflow of water into the water supply.



When setting up or moving the machine, make sure that the water supply and discharge hoses cannot bend or otherwise become blocked.



Make sure that no water can enter the machine. If water comes into contact with electrical parts, this can cause damage and/or danger.

3.5 Adjusting castors

The castors under the machine can be adjusted in height.



Make sure that the machine does not topple over when adjusting the castors.

1. Tighten all castors as far as possible.
2. Now **adjust** the castors so that the machine leans slightly forward (this allows rinsing and washing water to flow to the draining aperture at the front of the machine).



Do not unscrew the castors by more than 5 to 8 mm.

3. Place the front castors on the brake.



Make sure that the brake of the two front castors is secured after adjusting.

4 Machine Description

4.1 Function and products

The machine is only suitable for the commercial preparation of soft ice cream using water, ice cream mix as ingredients.

4.2 Machine overview

1. Operating panel 1
2. Operating panel 2
3. Emergency stop
4. Refresh button
5. Ice cream head
6. Mix tanks with water tap



With operating panel 1 the left freezing cylinder is controlled, operating panel 2 controls the right freezing cylinder.



The machine has two mixtanks for two different flavours of ice cream.



Operating panel 1 and 2

- **OFF**
Press to switch off the machine; only the lights remain lit.



First press 'OFF' before changing the mode.



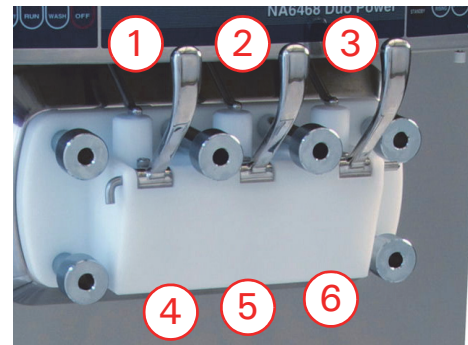
- **PASTEURISING**
Sets the machine to pasteurising mode. The ice cream mix in the cylinder and mix tank is pasteurised and the machine then switches to standby mode.
- **STANDBY**
Sets the machine to standby mode. The cylinder and mix tank are cooled to approx. 5°C.
- **RUN**
Sets the machine to operating mode. Ice cream can be dispensed.
- **WASH**
Sets the machine to wash mode and switches on the mixing apparatus in the cylinder.
- **- and +**
Selection keys to reduce and increase viscosity.
- **REPLENISH**
Control light; flashes YELLOW if there is insufficient ice cream mix in the mix tank.
- **HEATING**
Control light; lights up RED during pasteurising.
- **STANDBY**
Control light; lights up GREEN if the machine is in standby mode.

Ice cream head

1. Soft ice cream dispensing handle taste 1
2. Soft ice cream dispensing handle mixed taste 1 and 2
3. Soft ice cream dispensing handle taste 2

On the underside of the ice cream head you will find:

4. Soft ice cream dispensing spout taste 1
5. Soft ice cream dispensing spout mixed taste 1 and 2
6. Soft ice cream dispensing spout taste 2



Be careful! In the next chapters is not always shown the right ice cream head on all the pictures.

Mix tank (2x)

1. Mix tank agitator
2. Mix feed pipe
3. Air hoses



Buffet operation (optional)

1. Camouflaged buffet button.

The selection buttons only work if they are pressed simultaneously with the buffet button.



The buffet button prevents customers to operate the machine unintended.



5 Operation







5.1 Start up (start of working day)






Be careful! Carry out the starting procedure for both freezing cylinders after each other.



First check whether the machine is in 'STANDBY' mode. If this is not the case, measure the temperature of the mix in the mix tank. If the temperature is higher than 7°C, empty, clean and disinfect the machine. (see chapter 7 - 'Maintenance' on page 26) If the temperature is lower than 7°C, first pasteurise the machine before use.




		
<p>1. Check whether the machine is in 'STANDBY' mode. If this is not the case, measure the temperature of the mix in the mix tank. If the temperature is higher than 7°C, empty, clean and disinfect the machine (see chapter 7 - 'Maintenance' on page 26) . If the temperature is lower than 7°C, first pasteurise the machine before use.</p>	<p>2. Press 'OFF'.</p>	<p>3. Press 'WASH'.</p>
		
<p>4. Wait at least 10 minutes.</p>	<p>5. Press 'OFF'.</p>	<p>6. Press 'RUN'.</p>

		
<p>7. Wait until 2 horizontal lines are shown in the left display.</p>	<p>8. Turn the mix feed pipe to the 'open' position. (Orifice in the outside pipe in line with the arrow on the inside pipe).</p>	<p>9. Dispense one or two icecreams from all three dispensing spouts, taste them and throw them away.</p>



Starting the machine after cleaning is described in chapter 7 - 'Maintenance' on page 26).

5.2 Dispensing soft ice cream

		
<p>1. Hold an ice cream cup or cone under the ice cream dispensing spout.</p>	<p>2. Pull the ice cream handle down fully. The ice cream is now dispensed.</p>	<p>3. Push the ice cream handle up fully.</p>

Tips

Here are a few tips for dispensing soft ice cream properly:

- If no ice cream has been dispensed for a while, briefly press the 'refresh button' first before dispensing ice cream.
- Dispense soft ice cream carefully at a steady, constant dispensing rate.
- Do not dispense large amounts of soft ice cream in succession.
- Give the machine the opportunity in good time to bring the viscosity of the soft ice cream up to the required level again.

5.3 Switching off (end of working day)

The machine is not switched off in the same way each day. A choice can be made between switching off & standby and switching off & pasteurising.

Instructions for pasteurising

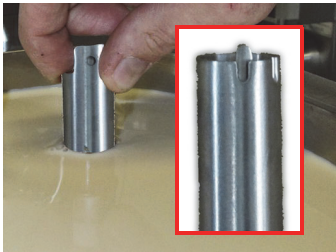




The Dutch hygiene code gives the following guidelines for pasteurising:

- Pasteurising takes place after the mix has been topped up.
- Always allow the machine to pasteurise at the end of the day (with a low turnover rate, pasteurise at least every two days).
- Before starting work, check that pasteurisation has been performed correctly.
- Do not keep pasteurised mix for longer than 72 hours.
- Store mix at a temperature of 7°C or lower; preferably 4°C or lower.



The dealer advises you to follow the above guidelines.

5.3.1 Switching off & standby

		
<p>1. Turn the mix feed pipe to the 'close' position. (Line mark on the outside pipe in line with the arrow on the inside pipe).</p>	<p>2. Druk op 'OFF'.</p>	<p>3. Druk op 'STANDBY'.</p>
		
<p>4. Clean the ice cream head and machine with a brush and clean cloth (preferably paper).</p>	<p>5. Disinfect the ice cream head with 80% alcohol spray.</p>	

5.3.2 Switching off & pasteurising

<p>1. Turn the mix feed pipe to the 'close' position. (Line mark on the outside pipe in line with the arrow on the inside pipe).</p>	<p>2. Druk op 'OFF'.</p>	<p>3. Press 'PASTEURISING'. The ice cream mix will now be pasteurised and the machine will then switch to 'standby' mode.</p>
<p>4. Clean the ice cream head and machine with a brush and clean cloth (preferably paper).</p>	<p>5. Disinfect the ice cream head with 80% alcohol spray.</p>	

5.4 Emergency stop

The machine must be switched off immediately if people or machinery are at risk:

- **Press** the emergency stop button.
The entire machine stops immediately and the power is turned off. The emergency circuit is now in operation.



Press the emergency stop button immediately if people or machinery are at risk.

Resetting

Resetting the emergency stop button:

- **Rotate** the emergency stop button a quarter turn.
The machine can now be started up again.



First check why the emergency stop button was pressed and remedy the problem .

5.5 Switching on/off

The machine does not have an on/off button. To switch off the machine completely:

1. **Press** the emergency stop button.
2. **Pull** the plug out of the socket.

To switch on the machine:

1. **Insert** the plug in the socket.
2. **Reset** the emergency stop feature.




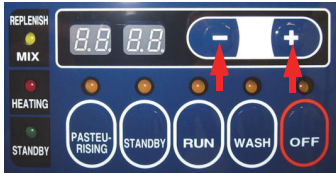

Do not switch off the machine at the end of the day; set it to 'PASTEURISING' or 'STANDBY'.

5.6 Adjusting the viscosity



Use this function only during 'Run'.

The viscosity can be adjusted in half increments. On the display this is shown with a . (dot) after the last digit. For example, 1.6. is a half more than 1.6

		
<p>1. Press '-' and '+' together until the display flashes. The display on the right now shows the set value.</p>	<p>2. Press '+' or '-' to increase or decrease the viscosity.</p>	<p>3. Wait approximately 5 seconds. The display on the right now shows the new set value.</p>

6 Faults

6.1 Introduction



You will probably be able to resolve some of the faults yourself without difficulty. First try to remedy faults yourself using the instructions in this manual before contacting the dealer.

6.2 Messages on display

The following messages can appear on the display:

Message	Problem
E02	Overloading of the cooling compressor.
E03	Watercooling type: Machine is not receiving cooling water or cooling water is not being drained away.
	Aircooling type: Machine cannot discharge the hot air.
E04	Overloading of the dashing motor.
E05	Temperature does not rise during pasteurising.
E06	Temperature in the cylinder is too high during pasteurising.
E07	Temperature in the mix tank is too high during pasteurising.
E08	Temperature in the cylinder is too high during defrosting.
E09	Overheating of the cooling compressor.
E10	Microswitch of the piston stays operated. Close the piston completely with the dispensing handle.
E11	Measurement error of temperature sensor H in cylinder.
E12	Measurement error of temperature sensor F in cylinder.
E13	Measurement error of temperature sensor G.
LO	Balance in cylinder disturbed; see faults table for remedies.

Resetting error messages


To reset an error message, switch off the machine using the emergency stop button, wait 10 seconds and switch the machine back on (see paragraph 5.4 on page 21).



If the error message remains, please contact the dealer.

6.3 Faults table

Problem	Cause	Remedy
LO appears in the right-hand or right-hand display.	Too much air in the cylinder.	Enlarge the orifice in the mix feed pipe 1 position (turn the outer mix feed pipe).
Machine is not responding and no lights are lit up.	The emergency stop button has been pressed.	Reset the emergency stop feature.
	Fuse(s) in meter box is (are) faulty.	Replace fuse(s) in the meter box.
	Phase fault protection relay is energized.	Incorrect phase connection in the meter box.
The ice cream is too soft (not caused by excessive sales).	Not much air in the ice cream.	Reduce the orifice in the mix feed pipe 1 position (turn the outer mix feed pipe).
	The temperature of the ice cream isn't low enough.	Increase the viscosity.
The machine is vibrating abnormally.	The power supply is disrupted or drive belt(s) is (are) faulty.	Please contact the dealer.
Ice cream is leaking through behind the ice cream head.	The components have not been fitted correctly (cap nuts are loose).	Fit the components properly. Check whether the nozzle and nozzle tube are clean.
	Gasket is worn	Check and replace if necessary.

Problem	Cause	Remedy
<p>The green 'STANDBY' light does not light up after pasteurising. The display should show</p>  <p>after pasteurising.</p>	<p>Mix tank agitator not working (error message EO5).</p>	<p>Check whether agitator is turning (it should turn on every 3-to-4 minutes). If not, please contact the dealer.</p>
	<p>Mix tank lid does not close properly (heat loss) (error message EO5).</p>	<p>Fit mix tank lid properly.</p>
	<p>The 'OFF' light is lit. There was a power failure that turned off the whole machine.</p>	<p>In case yes, empty the machine completely and clean and disinfect the whole machine. In cas no, pasteurise the machine before use.</p>

7 Maintenance

7.1 Safety instructions

- Do not use a water hose or high-pressure cleaner to spray the machine clean.
- Clean and disinfect the machine at least once every six weeks with the recommended cleaning and disinfecting agents.
- Decalcify the machine every 2nd till 4th cleaning, depending of the pollution, but atleast twice a year.
- Use prescribed lubricants only.



Maintenance work may only be carried out by trained staff.



Regular maintenance ensures good-quality ice cream and a properly functioning machine.

7.2 General instructions

The machine must be cleaned and disinfected at least once every six weeks. Between 2 to 2.5 hours are needed for this. Below are a number of general instructions for how to clean and disinfect the machine correctly.

7.2.1 Requirements

The following items are needed when cleaning the machine:

- Buckets & brushes
- Tea towel or kitchen roll
- Cleaning agent (recommended: Nissei Cip Clean)
- Disinfecting agent (recommended: Nissei Algides)
- O ring remover and piston puller
- 80% alcohol spray
- Lubricant (Petrogel)



The amount of Petrogel on the saucer is enough to lubricate all the parts of the machine.



Every 2nd till 4th cleaning, depending of the pollution,:

- Decalcify agent (recommended: Nissei Descaler)

7.2.2 Preventive maintenance

Preventive maintenance can be carried out by the operator when cleaning the machine.

The following parts must be checked:

- Rubbers and O rings of the mix feed pipe and ice cream head.
We advise you to replace these twice a year.
- Scraper blades of the cylinder beater. These must be sharp enough to scrape the ice from the cylinder wall.
We advise you to replace these once a year.



Contact the dealer to order spare parts.



Always replace all O rings together.



The O rings can only be order in a complete set. See annex 2 - 'Spare Parts' on page 46 for the product number.

7.2.3 Cleaning and disinfecting

We advise to use to use cleaning agent and disinfecting agent mentioned below:

- Cleaning agent: Nissei Cip Clean
- Disinfecting agent: Nissei Algides

When cleaning and disinfecting all components:

- **Rinse** away as much ice cream mix as possible with cold water.
- **Clean** further with brush and cleaning solution and allow the components to stand in the cleaning solution for 5 minutes.
- **Rinse** thoroughly with lukewarm water. (2x)
- **Place** the components in the disinfecting solution for 5 minutes.
- **Rinse** thoroughly with cold water. (2x)



Clean and disinfect your hands thoroughly with alcohol 80% before touch disinfected parts.

- **Dry** the components as much as possible with a clean towel (preferably paper).
- **Place** the parts on a clean tea towel or sheet of kitchen paper.

Cleaning solution

- **Make** a solution of 100 ml. Nissei Cip Clean and 10 litres of warm water in a clean bucket.



During cleaning, regularly change the cleaning solution.

Disinfecting solution

- **Make** a solution of 125 ml. Nissei Algides and 10 litres of cold water in a clean bucket.



During disinfecting, regularly change the disinfecting solution.

7.2.4 Decalcify

The machine, the cylinder beater and the mix feed pipe must be decalcified every 4th cleaning, but at least twice a year. We advice to use to use the decalcify agent mentioned below:

- Decalcify agent: Nissei Descaler



Decalcify the machine, the cylinder beater and the mix feed pipe every 2nd till 4th cleaning, depending of the polution, but at least twice a year.

Decalcify solution

- Make a solution of 1 liter Nissei Descaler and 10 litres of cold water.

7.2.5 Cleaning air filter (optional)

The air filter of air-cooled machines need to be cleaned every cleansing.

1. **Slide** the air filter out of position.
2. **Rinse** the air filter clean with lukewarm water.
3. **Knock** hanging water from the air filter.
4. **Dry** the air filter well.
5. **Place** the air filter back in the machine.
6. **Place** the machine back into position taking account with the placingspace.



7.3 (Dis)assembling, cleaning and disinfecting the machine



Please read the general instructions on cleaning and disinfecting before starting.

7.3.1 Procedure

(Dis)assembling, cleaning and disinfecting the machine is an intensive task. The following sequence is recommended for an effective procedure:

1. Defrost and drain cylinder.
2. Remove mix feed pipe and mix tank agitator.
3. Drain mix tank.
4. Clean mix tank and cylinder.
5. Decalcify the machine (every 2nd till 4th cleaning, depending of the pollution, but at least twice a year).
6. Remove ice cream head.
7. (Dis)assemble, clean and disinfect ice cream head.
8. (Dis)assemble, clean and disinfect cylinder beater and cream seal.
9. Fit ice cream head.
10. Disinfect machine.
11. Clean, rinse and disinfect mix feed pipe.
12. Start up machine.



For optimum hygiene, it is recommended that you start the machine up with new ice cream mix. Do not use old ice cream mix.

7.3.2 Defrosting and draining cylinder (left and right)

<p>1. Press 'OFF'.</p>	<p>2. Press 'PASTEURISING'.</p>	<p>3. Wait 10 minutes.</p>
<p>4. Press 'OFF'.</p>	<p>5. Press the emergency stop button.</p>	<p>6. Wait 10 seconds.</p>
<p>7. Reset the emergency stop.</p>	<p>8. Draw the ice cream mix out of the cylinder. Continue drawing product until there is no more pressure behind the ice cream mix.</p>	



Throw away the old ice cream mix. Do NOT re-use.

7.3.3 Removing mix feed pipe and mix tank agitator (left and right)

<p>1. Remove the mix feed pipe.</p>	<p>2. Remove the agitator.</p>	

7.3.4 Draining the mix tank (left and right)






<p>1. Press 'WASH'.</p>	<p>2. Drain all ice cream mix from the machine.</p>	<p>3. Press 'OFF'.</p>



Throw away the old ice cream mix. Do NOT re-use.

7.3.5 Cleaning the mix tank and cylinder (left and right)

<p>cold water</p>		
<p>1. Fill the mix tank completely with cold water.</p>	<p>2. Press 'WASH'.</p>	<p>3. Clean the mix tank.</p>
		<p>cleaning solution</p>
<p>4. Press 'OFF'.</p>	<p>5. Drain all the water out of the machine.</p>	<p>6. Fill the mix tank completely with a cleaning solution and clean the mix tank.</p>
		<p>5 min</p>
<p>7. Clean the mix tank.</p>	<p>8. Press 'WASH'.</p>	<p>9. Wait 5 minutes.</p>
		<p>lukewarm water</p>
<p>10. Press 'OFF'.</p>	<p>11. Drain all cleaning solution out of the machine.</p>	<p>12. Fill the mix tank with clean lukewarm water.</p>

		
<p>13. Press 'WASH'.</p>	<p>14. Wait 5 minutes.</p>	<p>15. Press 'OFF'.</p>
		
<p>16. Drain all the water out of the machine.</p>	<p>17. Repeat steps 12 to 16.</p>	







7.3.6 Decalcify the machine (left and right)






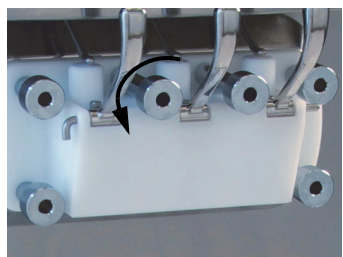
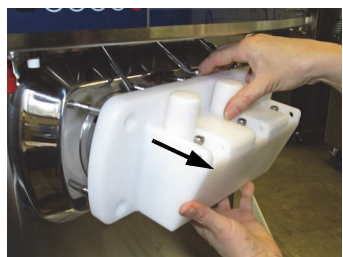
Decalcify the machine every 2nd till 4th cleaning, depending of the polution, but at least twice a year.



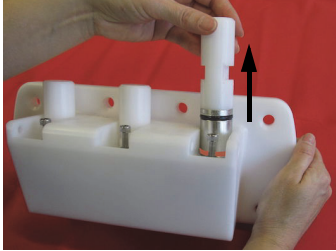
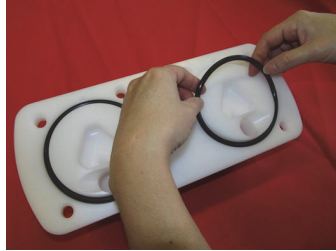




Place the cleaned mix feed pipe in the mix tank so these are decalcified too.

 <p>decalcify solution</p>	 <p>10 min</p>	
<p>1. Fill the mix tank completely with decalcify solution.</p>	<p>2. Wait for at least 10 minutes.</p>	<p>3. Drain all the decalcify solution out of the machine.</p>
 <p>cold water</p>		 <p>cold water</p>
<p>4. Fill the mix tank completely with cold water.</p>	<p>5. Drain all the water out of the machine.</p>	<p>6. Repeat steps 4 to 5.</p>






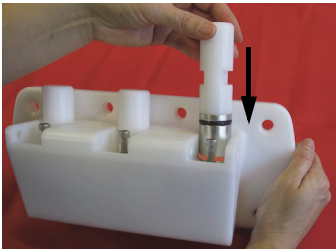
7.3.7 Removing the ice cream head

		
<p>1. Press the 'emergency stop' so the machine is shut down completely.</p>	<p>2. Remove the locking pins from the dispensing handles.</p>	<p>3. Remove the dispensing handles.</p>
		
<p>4. Loosen the six bolts.</p>	<p>5. Remove the ice cream head from the machine.</p>	

7.3.8 Disassembling, cleaning and disinfecting the ice cream head and mix feed pipe

		
<p>1. Push the pistons out of the ice cream head.</p>	<p>2. Remove the gaskets on the back of the ice cream head.</p>	<p>3. Remove the two O rings from the outer pistons and the H-ring from the central piston.</p>
		 <p>cleaning and disinfecting</p>
<p>4. Disassemble the outer and inner pipe of the mix feed pipe.</p>	<p>5. Remove the two O rings from the mix feed pipe.</p>	<p>6. Clean and disinfect all components and dry them carefully with a clean towel (preferably paper). (see paragraph 7.2.3)</p>

7.3.9 Fitting the ice cream head

		
<p>1. Lubricate the O rings for the outer pistons.</p>	<p>2. Lubricate the H ring for the central piston.</p>	<p>3. Lubricate the grooves for the O-rings and the H ring.</p>
		
<p>4. Fit the two O rings on the outer pistons.</p>	<p>5. Fit the H-ring on the central piston.</p>	<p>6. Fit the pistons in the ice cream head.</p>







7.3.10 (Dis)assembling, cleaning and disinfecting the cylinder beater (2x)

		
<p>1. Remove the beater from the cylinder.</p>	<p>2. Remove the cream seal from the drive shaft at the back of the cylinder.</p>	<p>3. Clean the (outside of) the cylinder.</p>
	 <p>cleaning and disinfecting</p>	
<p>4. Disassemble the beater.</p>	<p>5. Clean and disinfect all components and dry them carefully with a clean towel (preferably paper). (see paragraph 7.2.3)</p>	<p>6. Lubricate the cream seal.</p>
		
<p>7. Fit the cream seal to the drive shaft.</p>	<p>8. Assemble the beater.</p>	<p>9. Insert the beater in the cylinder.</p>







7.3.11 Fitting the ice cream head

<p>1. Attach the gaskets to the back of the ice cream head. DO NOT lubricate it!</p>	<p>2. Place the ice cream head on the machine. (Be careful! The pin for the headprotection must be pressed upwards. Place the ice cream head in front of the cylinder correctly.)</p>	<p>3. Loosely tighten the six bolts in the sequence shown. Then tighten firmly by hand following the same sequence.</p>
<p>4. Fit the dispensing handles in the ice cream head.</p>	<p>5. Reattach the locking pin for the dispensing handles.</p>	

7.3.12 Disinfecting the machine (left and right)

 <p>disinfecting solution</p>	 <p>5 min</p>	
<p>1. Fill the mix tank completely with disinfecting solution..</p>	<p>2. Wait at least 5 minutes.</p>	<p>3. Drain all the disinfecting solution out of the machine.</p>
 <p>cold water</p>		 <p>cold water</p>
<p>4. Fill the mix tank completely with cold water.</p>	<p>5. Drain all the water out of the machine.</p>	<p>6. Repeat steps 4 to 5.</p>

7.3.13 Starting up the machine (left and right)

		
<p>1. Reset the emergency stop.</p>	<p>2. Press 'OFF'.</p>	<p>1. Fit the agitator. 2.</p>
		
<p>3. Fill the mix tank with 1,2 liter of ice cream mix.</p>	<p>4. Install the mix feed pipe into the mix tank.</p>	<p>5. Turn the mix feed pipe to the 'close' position. (Line mark on the outside pipe in line with the arrow on the inside pipe.</p>

<p>6. Press 'WASH'.</p>	<p>7. Fill the mix tank with ice cream mix.</p>	<p>8. Wait at least 5 minutes.</p>
<p>9. Press 'OFF'.</p>	<p>10. Press 'RUN'.</p>	<p>11. Wait until 2 horizontal lines are shown in the left display.</p>
<p>12. Turn the mix feed pipe to the 'open' position. (Orifice in the outside pipe in line with the arrow on the inside pipe).</p>	<p>13. Dispense one or two icecreams from all three dispensing spouts, taste them and throw them away.</p>	



When dispensing product, air may still be expelled the first few times. This stops once a number of ice creams have been dispensed.

8 Transportation and Storage



Check that all connections have been disconnected before moving the machine.

8.1 Transportation

The following rules must be observed during transportation:

- Always transport the machine upright.
- Use suitable lifting gear. Do not lift the machine manually.



If necessary, have the machine transported by a specialist company. They have suitable lifting gear and transportation means.

8.2 Storage

The following rules must be observed during storage:

- First clean the machine thoroughly.
- Store the ice cream head and mix feed pipe disassembled.
- The storage area must be dry with an air humidity level of 45-75%.
- The ambient temperature must be between 4°C and 50°C.
- The storage area must be free of dust or the machine and parts must be covered with plastic film.

9 Discarding

9.1 Environmental factors

The following must be observed:



When discharging the machine it must be handed in to an authorized waste collection point for electrical equipment.



Here the machine is disposed of in an environmentally friendly manner and materials are reused.



It must be taken into account that refrigerant gasses are present in the machine.

Annex 1 Specifications

Machine dimensions		
	NA 6460	NA 6468
Height	1500 mm	
Width	540 mm	
Depth	950 mm	840 mm
Weight	Approx. 250 kg	

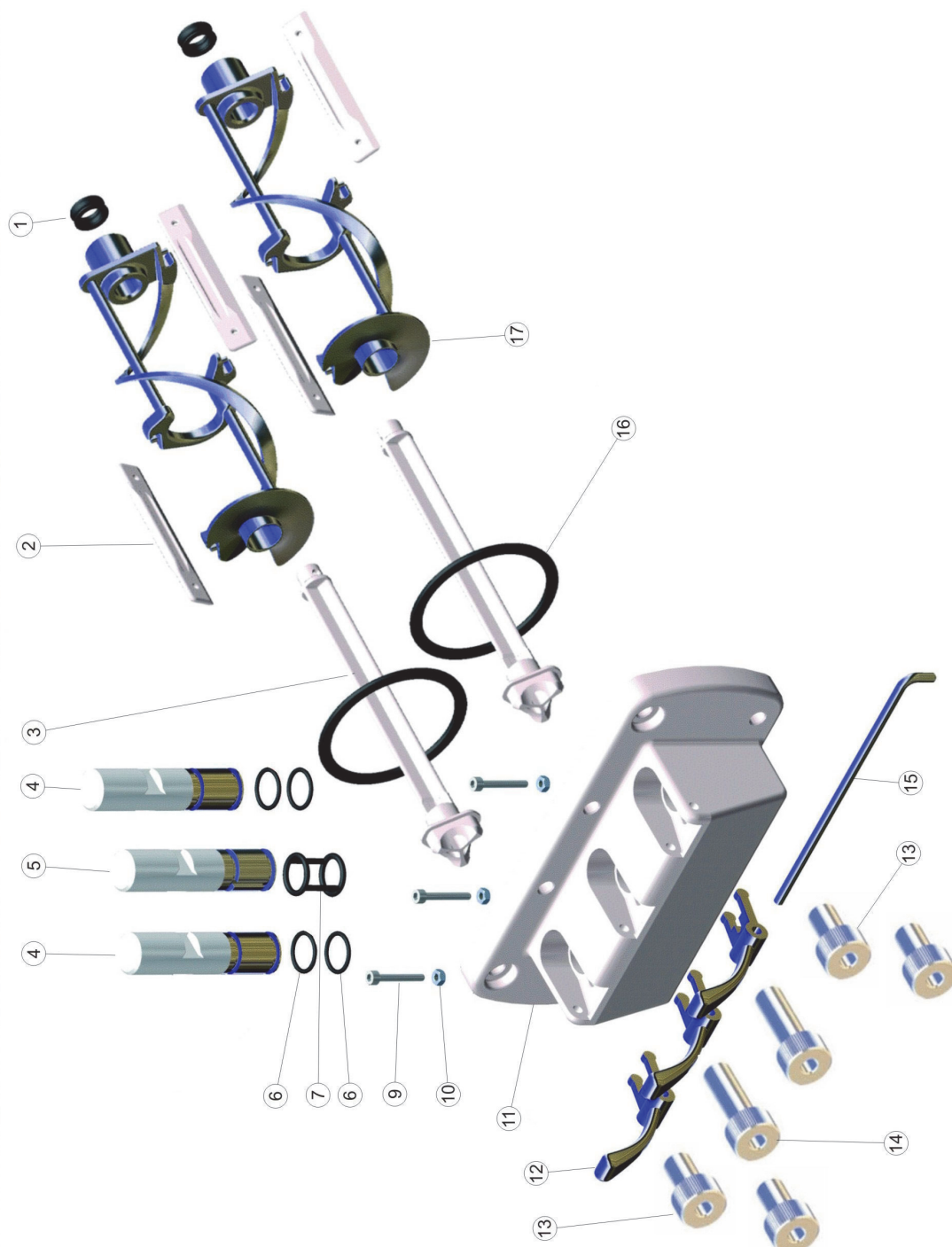
Connection details		
	NA 6460	NA 6468
Electrical	400 V 3 x 16 amp + N + PE	
Water pressure	--	min. 1 bar / max. 3 bar
Ambient temperature	+5°C tot +35°C	

Consumption details		
	NA 6460	NA 6468
Electrical	2x 1,6 kWh	
Cooling water	--	2x 40 m ³ /year

Specifications		
	NA 6460	NA 6468
Dispensing capacity	Approx. 30 + 30 litres/hour	
Soft ice cream flavours	2 + mixed	
Cylinder capacity	2x 2,5 litres	
Mix tank capacity	2x 10 litres	

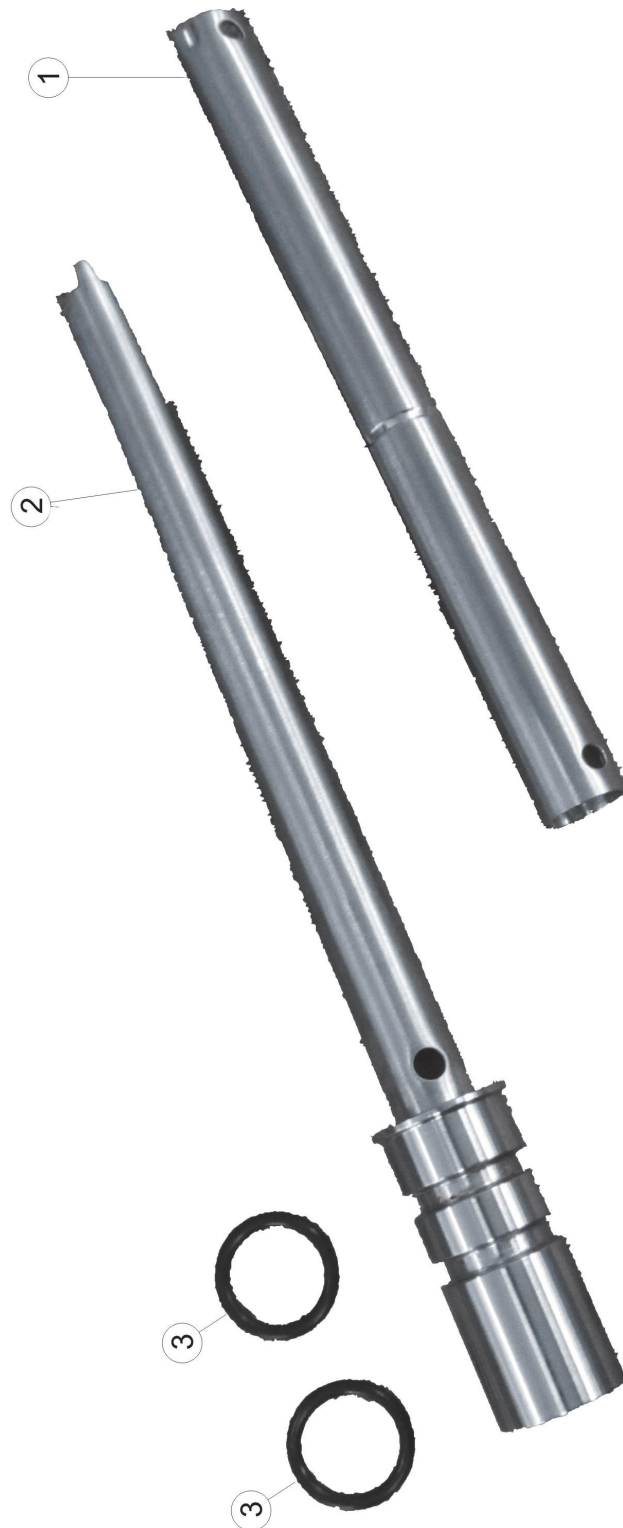
Annex 2 Spare Parts

A2.1 Ice cream head and beater



Item no.	Name	Quantity	Product no.
1	Cream seal	2	35000
2	Scraper blade	4	30091
3	Center bar	2	30117
4	Piston	2	30008
5	Piston Middle	1	30003
6	O ring 23,55 x 3,2	2	35006
7	H ring	1	35122
8	O ring 23,55 x 3,2	2	35006
9	Allen bolt, stainless steel M6 x 40	3	
10	Nut, stainless steel M6	3	
11	Ice cream front	1	30106T
12	Dispensing handle	3	31026
13	Head bolt, stainless steel	4	138044
14	Head bolt, stainless steel (extended)	2	137666
15	Locking pin dispensing handle	1	31024
16	Gasket ø 95	2	138042
17	Cylinder beater ø 95	2	30053
	O ring set ice cream front ø 95	1	33206

A2.2 Mix feed pipe (2x)



Item nr.	Naam	Aantal	Artikel nr.
1	Mix feed pipe outer tube	1	139680
2	Mix feed pipe inner tube	1	138918
3	O ring 17 x 2,5	2	35013
	O ring set NA 64-- series gravity	1	33206

Annex 3 EC Declaration

EC Declaration of Conformity of the Machinery Directive 2006/42/EC, Appendix II, under 1.A

Manufacturer,

Win Equipment B.V.
De Kronkels 31
3752 LM Bunschoten
The Netherlands



hereby declares that the following machine:

Name: Nissei soft ice cream machine
Type: NA 64-- series gravity

is in conformance with the following EC directives:

- the Machinery Directive 2006/42/EC

and the following harmonised European standards:

- NEN-EN-ISO 12100-1/2
- NEN-EN-IEC 60204-1

Bunschoten, June 1st 2017

Name: M. Jocker
Position: Manager Operations