

Nitro Dispenser

Operation Manual

115V/60 Hz Models: ND-20-01-02 NE



ATTENTION:
Before start of operation,
study this manual

Table of Contents

1.	Safety Instructions	3
1.1.	Setup / Commissioning.....	3
1.2.	Operations	3
1.3.	Spare Parts.....	3
1.4.	Transport and Storage.....	4
1.5.	Electric Connections	4
1.6.	Service	4
1.7.	Intended Usage.....	4
2.	Before Start	5
2.1	Dispenser Functionality	5
2.2	Dimension.....	5
2.3	Technical Data and Properties.....	6
2.4	Filtration	7
3.	Commissioning	8
3.1.	Scope of Supply	8
3.2.	Setup and Start.....	9
3.3.	Adjustments.....	12
4.	Decommissioning	12
5.	Hygiene, Cleaning, Maintenance.....	13
5.1.	Product shelf life after connection / opening	13
5.2.	Break times.....	13
5.3.	Recommended Cleaner and Strength	13
5.4.	Chemical Cleaning	14
5.5.	Preventive Maintenance	17
6.	Packaging and Shipping.....	18
7.	Troubleshooting	19
7.1.	Online	19
7.2.	Troubleshooting Matrix – Operator fixable.....	19
	Spare Parts for Operators.....	21
8.	Disposal.....	23
9.	Warranty.....	23
10.	Declaration of Conformity	23
11.	Contact Data.....	23

1. Safety Instructions

1.1. Setup / Commissioning

The use and maintenance of the machine shall be limited to trained personnel only.

Place the unit upright standing in a horizontal, level, dry, and clean place. Ensure that the power connection cable is routed directly to the socket. Do not locate multiple portable socket-outlets or portable power supplies at the rear of the appliance. The connecting cable must never be kinked or squeezed and the lateral openings require a free distance of 5 cm to provide the required air circulation. The free distance behind the dispenser must be as well 5 cm. The dispenser front, with the tap outlet must stay open and uncovered.

As an operator pay attention to the listed safety measures:

- Operate dispenser within a temperature range of +43 to +95°F
- Prevent dirt (dust, fibers, etc.) from entering the unit
- Connect only the specified supply voltage.
- The wall socket used must be connected to an overcurrent protection device (16A).
- The device may only be operated with a properly wired protective earth conductor.
- Protect the device against moisture
- Do not insert objects into rotating parts (fan or compressor)
- Observe the warning, safety and service instructions in this manual

1.2. Operations

The device described here may only be operated by suitably trained persons. Children shall not play with the machine. This machine can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision and instruction concerning use of the machine in a safe way and if they understand the hazards involved. Cleaning and user maintenance shall not be made by children.

Do not use a water jet for cleaning purposes.

Keep ventilation openings, in the appliance enclosure, clear of obstruction. The air circulation must be possible at any time.

Do not damage the refrigerant circuit. The R290 refrigerant is an extremely flammable gas.

Serious personal injury and material damage can be caused by:

- Improper use
- Incorrect installation or operation
- Unauthorized removal of the necessary protective covers or housings
- Invalid opening of the device during operation
- Failure to comply with the applicable legislation / standards for beverage dispense installations.
- Service and repair jobs where access to the machine inside is required, may only be carried out by a trained or instructed technician

If, for any reason, it can be assumed that the safety is impaired or when it is changed from normal operation, the appliance must be put out of service and marked so that it is not inadvertently put back into service by a third party. In addition, the customer service has to be notified. Safety may be impaired if the appliance is not working properly or is visibly damaged.

1.3. Spare Parts

If modules or parts are replaced, only identical & original assemblies or parts may be used.

1.4. Transport and Storage

Damages determined after delivery must be communicated immediately to the carrier. Commissioning may be excluded. The device must only be stored in a dry environment at temperatures of 32 to 140°F.

1.5. Electric Connections

All work must be carried out only if:

- The electrical system is switched off and protected against unintentional reconnection
- Verified that no current is present.
- It is ensured that additional monitoring and protection devices, which are provided for the operation of this control, are installed in a professional manner.

When connecting, ensure that applicable local standards and regulations are observed.

1.6. Service

For service and repair jobs please refer to the technical service manual.

1.7. Intended Usage

The Carbotek Nitro Dispenser is a ready-to-use dispenser to tap nitrogenated and cooled beverages in particular cold-brew coffee or coffee cocktails. This machine is intended for indoor use only. Such as: Small shops, convenience stores and kiosks, bars and restaurants, staff kitchen areas in shops, offices and other working environments, hotels and motels. It may be used in private households as well.

The device is only approved for this application and is not suitable for cooling hot liquids, unfiltered liquids, chemicals or similar.

2. Before Start

2.1 Dispenser Functionality


The Carbotek Nitro Dispenser combines different functions in one device.

- Suction of filtered liquids (e.g. cold-brew coffee) from an unpressurized or pressurized container, possibly from a bag-in-box.
- Cooling the liquid in the dispenser cooling block
- Injection of filtered compressed air into the liquid. The atmospheric nitrogen (78%) and the oxygen (21%) in the air creates the cascading nitro effect. A built-in compressor is used. There is no nitrogen generator embedded.
- The liquid and the gas are blended in the jet-nozzle spout of the tap.
- Dispense of nitrogenated beverages in the typical Guinness style.
- With a toggle switch the operator can switch between nitrogenated and non-nitrogenated drinks.
- Outlet temperature control.

2.2 Dimension

	The outside dimensions between 1-tap and 2-tap versions are identical.																																				
	<p>Depth</p> <table> <tr> <td>A:</td> <td>body depth</td> <td>16 in</td> </tr> <tr> <td>B:</td> <td>drip tray</td> <td>5.7 in</td> </tr> <tr> <td>C:</td> <td>tap</td> <td>4.1 in</td> </tr> <tr> <td>A + B:</td> <td>total depth</td> <td>21.6 in</td> </tr> </table> <p>Height</p> <table> <tr> <td>D:</td> <td>body height</td> <td>14.7 in</td> </tr> <tr> <td>E:</td> <td>handle height</td> <td>1.7 in</td> </tr> <tr> <td>F1:</td> <td>drip tray</td> <td>0.59 in</td> </tr> <tr> <td>F2:</td> <td>max glass height</td> <td>8.07 in</td> </tr> <tr> <td>F3:</td> <td>above tap</td> <td>1.9 in</td> </tr> <tr> <td>F4:</td> <td>tap with handle</td> <td>8.07 in</td> </tr> <tr> <td>D – F3 + F4</td> <td>total height</td> <td>20.86 in</td> </tr> </table> <p>Width</p> <table> <tr> <td>G:</td> <td>width</td> <td>6.9 in</td> </tr> </table>	A:	body depth	16 in	B:	drip tray	5.7 in	C:	tap	4.1 in	A + B:	total depth	21.6 in	D:	body height	14.7 in	E:	handle height	1.7 in	F1:	drip tray	0.59 in	F2:	max glass height	8.07 in	F3:	above tap	1.9 in	F4:	tap with handle	8.07 in	D – F3 + F4	total height	20.86 in	G:	width	6.9 in
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2.3 Technical Data and Properties

Taps	1 Tap
Model	ND-20-01-02 NE
Picture	
Beverages	Cold-Brew-Coffee, Tea, Coffee-Cocktails
Electrical & refrigerant	
Power supply	115 V / 60 Hz
Wattage / amperage	368 W / 3.2 A
Refrigerant / amount	 R290, 1.66 oz Propane is an extremely flammable gas
Electrical connection	C14 socket
Power cable	NEMA 5-15P plug (type B – grounded)
Cooler type	dry
Climatic class	N
Accessories	
5l cleaning or product canister with CPC socket	1 x
Intake hose with strainer and CPC coupler	1 x
Inlet strainer for particles > 0.04 in	1 x
Drip tray	1 x
Cleaning agent	1 jar (20oz.) of ONE-PRO cleaner from URNEX
Features	
Nitrogen source	Filtered compressed air (78% nitrogen)
Jet Nozzle Mono with spray crowns flowrate: 0.6 l (20 oz)/min	1 x
Nitro rotary switch to switch between NITRO COLD BREW and COLD BREW	1 x
Foam level control	No adjustment – default factory setup
Particle air-filter	Yes

Nitro-Port to connect nitrogen bottles	No
Temperature setup	41.0 – 43.0 °F
Liquid volume inside dispenser	1 x 370 ml (12.5 oz)
Cooling effect during nonstop dispense	Δ 13°F (at 0.6 l (20 oz)/min)
Continuous (non-stop) dispense is only possible until an ambient temperature of 86°F. Between 86 and 95°C non-stop dispensing is possible up to 30 min. Then the dispenser needs a recovery break of 15 min to cool down again.	
Device connections	
Product inlet	1 x CPC coupler 3/8" hose
Others	
Noise emission level	<= 64 dB
Warranty	2 years (after date of production)
Weight & dimensions	
Net / gross weight	49.2 lb. / 54.2 lb.
Dispenser dimensions (H x W x D) including tap handle	20.86 x 7.6 x 21.65 in
Packaging dimensions (H x W x D)	27.0 x 10.0 x 23.2 in

2.4 Filtration

Ensure that the coffee was filtered with a fineness of at least **100 μm** (100 micron). Coarser filtration sizes lead to clogging of the filter in the intake line or in the jet-nozzle outlet-spout of the tap. Make sure the filter adapter is installed in the coffee intake line. The filter adapter provides a particle size filter of 100 μm.



Attention!

By not using an appropriate intake filter the internal dispenser pump might be damaged or destroyed through particles in your liquid.

3. Commissioning

3.1. Scope of Supply


The Nitro Dispenser is delivered with the components as listed below.

	1-tap Nitro Dispenser
	<ul style="list-style-type: none"> 1) 1x Nitro Dispenser 2) 1x Accessories box 3) 1x 5l (170 oz) coffee or cleaning canister
	<p style="text-align: center;">Accessories box parts</p> <ul style="list-style-type: none"> 2.1) 1x drip tray 2.2) 1x intake hose 2.3) 1x ONE-PRO cleaner 2.4) 1x dispenser tap 2.5) 1x tap handle 2.6) 1x tap & filter key 2.7) 1x power cord ^{*1} 2.8) 1x User manual

*1 : The power cord has a C13 plug to connect to the dispenser. The socket plug is country specific

3.2. Setup and Start

The setup and starting procedure between one and two tap versions in principle is identical except the number of taps, intake hoses and canisters differ between the models.

1. Remove foil from drip tray	2. Connect tap and handle to dispenser
 <p data-bbox="256 636 663 692">Remove foil from drip tray</p>	<p data-bbox="794 394 847 443">A</p>  <p data-bbox="932 792 1334 882">Connect tap to the dispenser and fix it with nut</p>
<p data-bbox="161 902 213 952">B</p>  <p data-bbox="309 1245 711 1335">Use wrench to tighten the connection</p>	<p data-bbox="794 902 847 952">C</p>  <p data-bbox="986 902 1372 992">Connect the handle and fix it with the locknut</p>
3. Establish electrical connection	
<p data-bbox="161 1417 213 1467">A</p>  <p data-bbox="363 1417 734 1507">Connect power cord with C13 plug to the dispenser.</p>	<p data-bbox="794 1417 847 1467">B</p>  <p data-bbox="1034 1776 1356 1832">Connect to wall socket.</p>

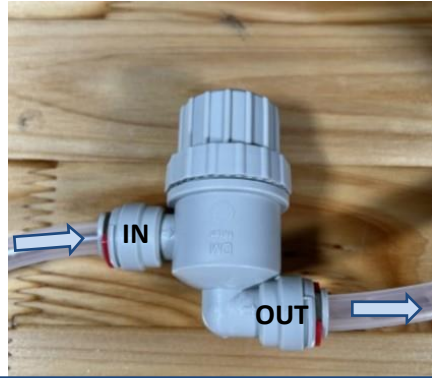
4. Connect canister and rinse with water

A



Fill canister half with water
About 2.5 l (85 oz)

B



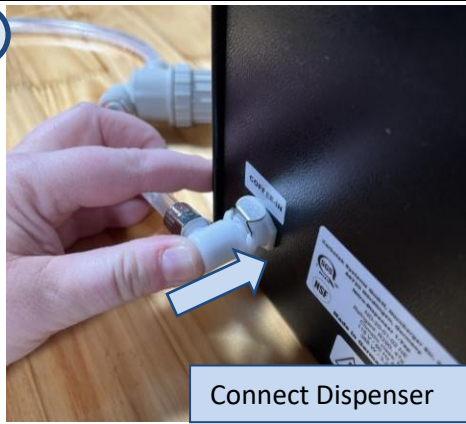
Check flow direction of your intake hose at the filter connection.

C



Connect canister

D



Connect Dispenser

E



Toggle on pressure switch

F



Flip nitro rotary switch into NITRO COLD BREW position.

G



Rinse the dispenser with water. Flowrate should be 0.6 l (20 oz)/min

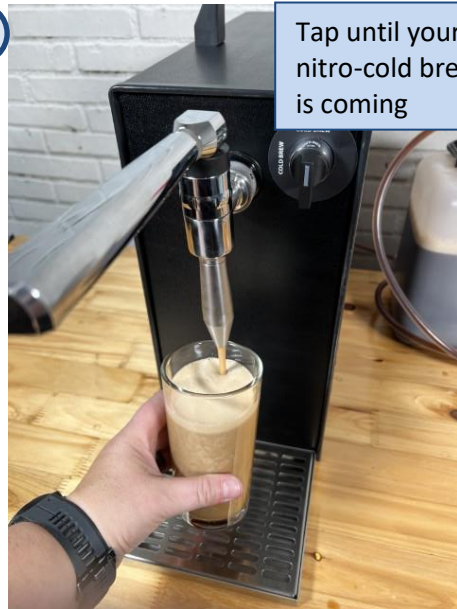
5. Start product dispense

A



Prepare cold-brew coffee in your canister

B

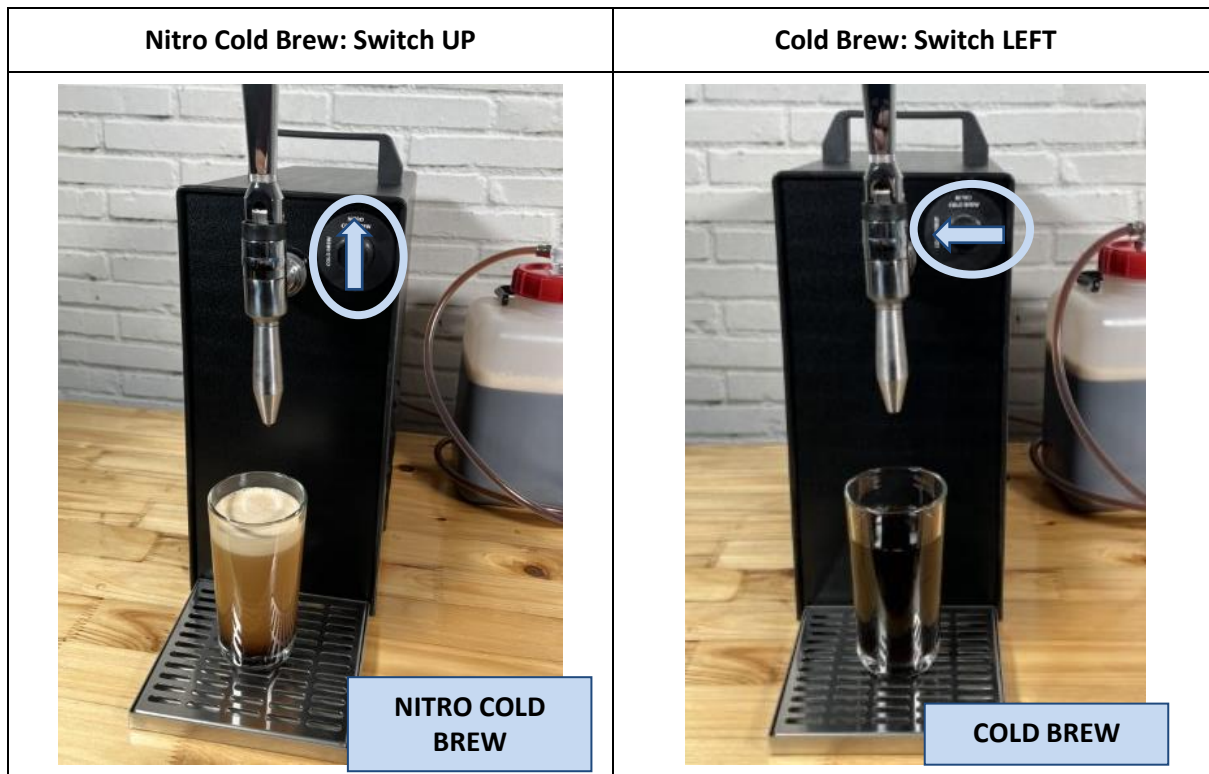


Tap until your nitro-cold brew is coming

3.3. Adjustments

Things that can be adjusted from the operator are:

1. Choose Nitro Cold Brew/Cold Brew dispense mode through rotary-switch



When changing from NITRO-COLD BREW to COLD BREW it takes about 50 ml (1.7 oz) of coffee until the remaining nitro gas is out. Open & close the tap handle a couple of times (3-4) and dispense the 50 ml (1.7 oz) in small batches, like this the gas in the tap is flushed out faster.

4. Decommissioning

Before putting the dispenser out of service, we recommend a chemical cleaning – especially if you want to keep it out of service for a longer time.

1. Provide a chemical cleaning (as in chapter 5.4) OR flush the dispenser and canister with clean water.
2. Let the dispenser suck in air until air is coming out of the nozzle.
Do NOT disconnect the intake line from the dispenser in order to suck air. The CPC coupler system has a check valve that prevents air sucking and by this the internal liquid buffer cannot be emptied.
3. Disconnect the intake line and remove power plug from electrical socket.
4. Pull handle to open tap and release internal pressure

Protect the dispenser against rain and dust and store it in a temperatures range between 32 °F and 140°C.

5. Hygiene, Cleaning, Maintenance

5.1. Product shelf life after connection / opening

The product shelf life after connection to the dispenser depends on a couple of circumstances that are independent from the dispenser. Such as:

- Shelf life of product before and after connection
- Product type and product sensibility
- Ambient or cooled environment before and after connection
- Tapping frequency and break times

Carbotek recommends a weekly cleaning interval – however this is just a general recommendation. The appropriate, product specific shelf life after connection and the corresponding cleaning interval needs to be evaluated with the concrete product.

The product shelf life and the product quality are in the responsibility of the operator. Carbotek can just provide general recommendation at this stage.

5.2. Break times

Consider the points below only as a general guideline to provide enduring high coffee quality to your customers. Coffee / product specific differences exist.


- If the dispense break is longer than 2 days, disconnect your coffee and flush the dispenser with fresh water before restart of coffee dispense.
- If the break time is more than 4 days follow the “Decommissioning” steps in chapter 4.
- After a break time always check the coffee quality with a small sip, before restart of operations.

5.3. Recommended Cleaner and Strength

As a cleaner we recommend the product ONE-PRO from URNEX with a strength of two teaspoons (11g / 0.4 oz) of powder to 2.5 l (85 oz) of warm (40°C / 104°F) water.

ONE-PRO is a so-called one-step cleaner that combines cleaning and disinfection.



2 x  of ONE-PRO powder (11g/0.4 oz)
+ 2.5l (85 oz) of WARM WATER (40°C/104°F)
= 2.5l (85 oz) of CLEANING SOLUTION


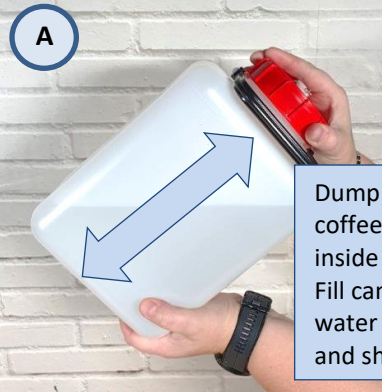

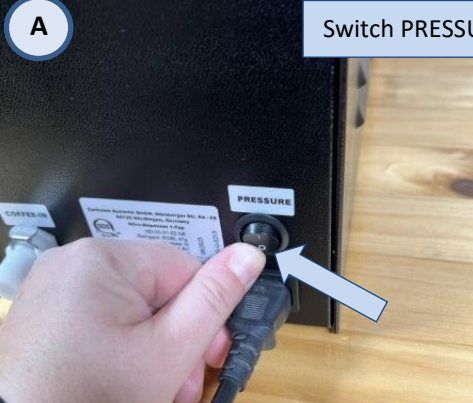
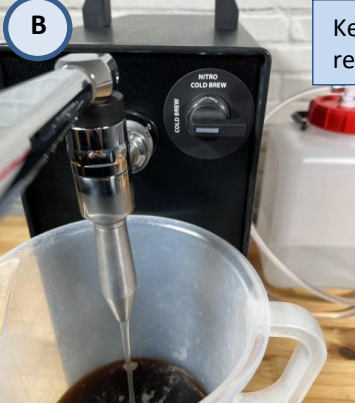
5.4. Chemical Cleaning

Track the cleaning activities in a cleaning protocol in case cleaning records are requested from a food inspection.

It's recommended to wear gloves and safety glasses when working with chemical detergents.

Pay attention to the local safety standards.

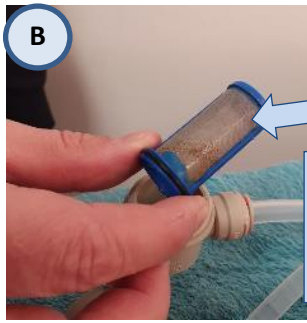
CLEANING PROCESS

1. Cleaning equipment	2. Rinse with water
<p>You need:</p> <ul style="list-style-type: none"> - Cleaner - Brush - Teaspoon - 2l (68 oz) jug - Filter wrench 	<p>A</p>  <p>Dump remaining coffee. Clean canister inside with a brush. Fill canister half with water (=2.5l (85 oz)) and shake it.</p>
<p>B</p>  <p>Connect canister to the dispenser.</p>	<p>C</p>  <ul style="list-style-type: none"> - Open tap and dispense 1.5 l (50 oz) of water. - Put nitro rotary switch in Cold Brew position
3. Release system pressure	
<p>A</p>  <p>Switch PRESSURE OFF</p>	<p>B</p>  <p>Keep the tap open to release pressure</p>

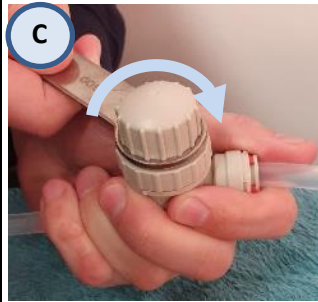
4. Check intake filter, jet-nozzle and tap valve



A Open filter adapter with wrench



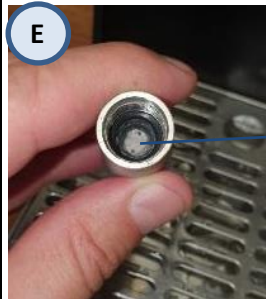
B Take out filter element and clean with water in case of particles or clogging.



C Close filter again



D Unscrew the tap nozzle



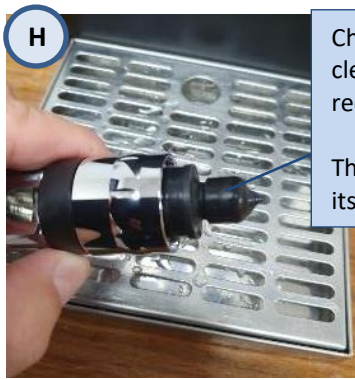
E Check nozzle top. No particles should be there. If so, flush with water and/or clean with brush.



F Reconnect the nozzle to the tap.



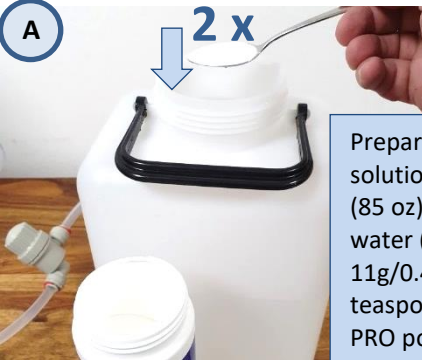
G Unscrew the tap valve



H Check tap valve and clean with a brush if required. Then put it back in its position.

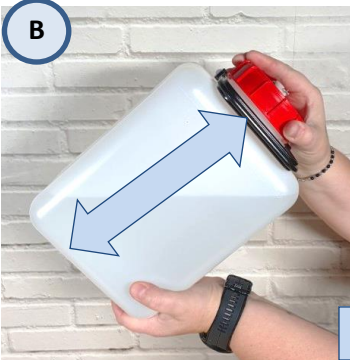
5. Prepare 2.5 l of cleaning solution and flush dispenser

A



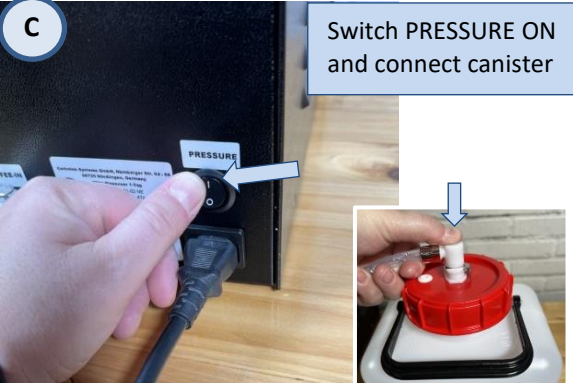
Prepare cleaning solution with 2.5 l (85 oz) hand warm water (104°F) and 11g/0.4 oz (two teaspoons) of ONE-PRO powder.

B



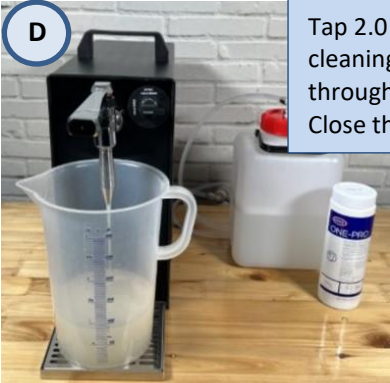
Shake canister

C



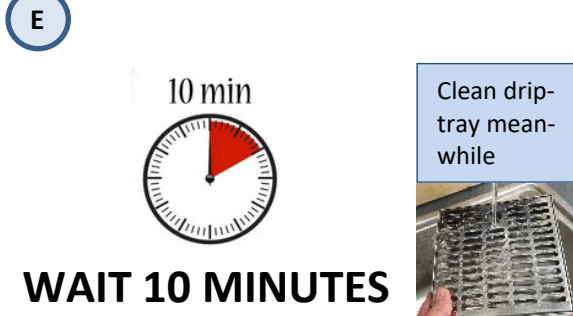
Switch PRESSURE ON and connect canister

D



Tap 2.0 l (68 oz) of cleaning solution through the dispenser. Close the tap after.

E



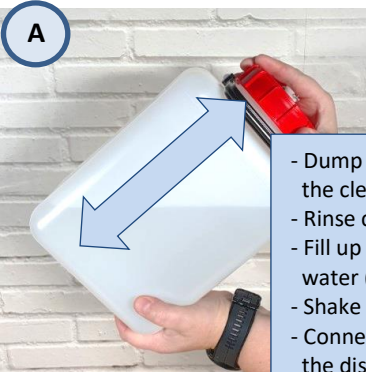
10 min

Clean drip-tray meanwhile

WAIT 10 MINUTES

6. Rinse with water

A



- Dump the rest of the cleaning solution.
- Rinse canister with water
- Fill up canister with fresh water (around 2.0 l (68 oz))
- Shake it
- Connect canister to the dispenser

B



If you want to continue with product dispense:

- Tap 1.5 l (50 oz) of water through the dispenser.
- Now connect back to your dispensing product



If you want to take the dispenser out of service:

- Keep tap open until canister is empty and air is coming through the tap nozzle


5.5. Preventive Maintenance

As preventive maintenance jobs are considered:

- Rinse the vacuum valve at the canister with warm water.** **Every 4 weeks**
 This is required if the canister is used as a product canister for beverages.
 For sugary liquids this is recommended to be done with every cleaning cycle.

<p>Take out the silicone vacuum valve at the canister lid.</p>	
<p>Rinse it with warm water to remove beverage residuals. These residuals might lead to a clogging effect of the vacuum valve.</p>	

- Dust removal from condenser grid at the backside** **Every 6 months**

<p>Blow away the dust at the condenser grid with compressed air.</p>	
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6. Packaging and Shipping

If parcel shipping is intended, please ship the dispenser **ONLY** with the original packaging components as shown below. The dispenser **tap must be detached** before packaging.

Packaging Components



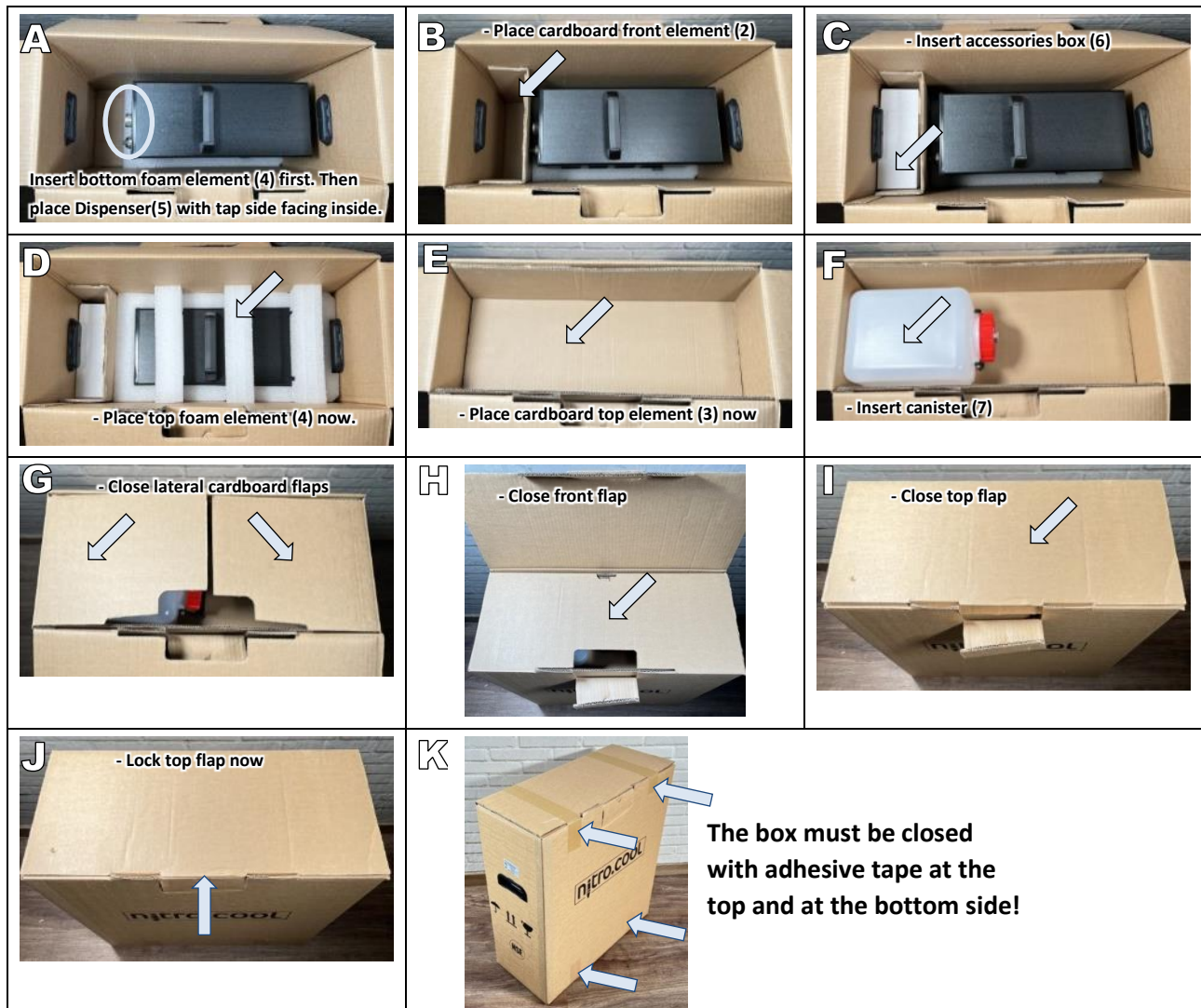
Parts and article numbers

- 1) Transport carton (art 413) with handles (2 x 420)
- 2) Cardboard cut-outs front (art 417)
- 3) Cardboard cut-outs top (art 418)
- 4) Bottom and top foam elements (art 414)
- 5) Nitro-Dispenser
- 6) Accessories box
- 7) Canister

Transport carton SET ND 2020

419 = 413 + 417 + 418 + 420 (2x)
Foam elements not included!

Step by Step (Tap must be detached)



7. Troubleshooting

7.1. Online



<https://youtu.be/Ido13RVYFIU>



Nitro-Dispenser Service:
Troubleshooting 1-Tap | black | 115V

Helping the operator to identify and resolve problems

7.2. Troubleshooting Matrix – Operator fixable

Technical problems, fixable through the operator					Operator experience ID							
					E1	E2	E3	E4	E5	E6	E7	E8
Problem ID	Problem	Effect	toDO	Verification	Too much foam during dispense	Not enough foam during dispense	Liquid flowrate is too slow	No liquid is coming out anymore	Drinks are not cold enough	Leaking	Bad taste / Collapsing canister	Others
CBP1	Pressure toggle switch OFF	No power built-up of the pneumatic circuit. -> No dispense happens, as the pumps runs on pneumatic pressure.	Switch pressure toggle switch in ON position	Dispensing becomes possible				X				
CBP2	No electrical power	Without electrical power no cooling and no air compressor runs. -> No dispensing, no cooling	Check if power cord properly is plugged in. Check if any fuse trapped. Check whether the dispenser makes any noise.	You should hear some noises when opening the tap. (e.g. pump, air-compressor, cooling-compressor)				X				
CBP3	CPC adapter intake line not properly connected.	The CPC adapter of the intake line is not pushed properly into the dispenser socket or the canister socket.	Check the socket connections of intake line and reestablish connection.	Visual check if intake line socket connections are ok.				X				
CBP4	High volume dispense	If there is high volume dispense in peak moments, the cooling compressor cannot cool down fast enough.	The canister connected to the dispenser must be pre cooled in a fridge. This reduces the required cooling energy for the dispenser.	In high volume nonstop dispense the cooling effect is only around 7°C between input and output. Target dispense temperature: 5° (+/- 1° C) 41°F (+/-2°F)					X			
CBP5	Intake filter clogged	Liquid flowrate too slow -> Mismatch of gas and liquid stream	Open and check intake filter	Target flowrate: 0.6 l/min (+/- 10%)	X		X	X				
CBP6	Tap outlet nozzle clogged	Liquid flowrate too slow -> Mismatch of gas and liquid stream	Open and check nozzle. Try to tap without nozzle.	Target flowrate: 0.6 l/min (+/- 10%)	X		X	X				

Technical problems, fixable through the operator					Operator experience ID							
					E1	E2	E3	E4	E5	E6	E7	E8
Problem ID	Problem	Effect	toDO	Verification	Too much foam during dispense	Not enough foam during dispense	Liquid flowrate is too slow	No liquid is coming out anymore	Drinks are not cold enough	Leaking	Bad taste / Collapsing canister	Others
CBP7	Smaller air leak at intake line	Together with the liquid, air is sucked into the dispenser through a leak in intake line or canister lid. -> Mismatch of gas and liquid stream	Check all connections at intake line and in canister lid.	Visible check: There must not be any air bubbles sucked into the dispenser during dispense.	X		X	X				
CBP8	Big air leak at intake line	Due to a loose connection at the intake line or canister lid, ambient air is sucked into the dispenser instead of product out of the canister.	Check all connections at intake line and in canister lid.	Visible check: There must not be any air bubbles sucked into the dispenser during dispense.				X				
CBP9	Recipe or glass issue	Ingredient based foam instability or detergent traces at glass border.	Dispenser cleaning. Use fresh ingredients. Clean glasses / cups properly and rinse with fresh water	Excellent foam quality is a MUST HAVE.		X						
CBP10	Tap valve not screwed in entirely	The valve is not in the end position. -> Liquid will spill out although tap is closed	Tighten tap valve to its end position.	No liquid must spill out when tap is closed.						X		
CBP11	Leaking in terms of liquid spilling or dropping out.	Leaking from intake hose are probably due to a bad hose connection. Leaking at the coupler are probably caused through a damaged O-ring. Leaking from inside the machine require service technician.	Reestablish connections at the intake hoses. Check the O-ring from CPC couplers at intake line. A bad O-ring at a coupler can be the problem.	No leaking from intake hose or coupler must occur.						X		
CBP12	No cleaning	Without regular cleaning, the quality of the drinks will suffer. The canister can collapse if the venting valve in the lid is not cleaned.	Apply cleaning procedure as described in manual chapter 5.4	After cleaning check smell / taste with pure water. There must NOT be any OFF taste.							X	
CBP13	Canister venting valve blocked	Canister is collapsing as venting valve does not open when liquid is sucked out through the dispenser.	Regular cleaning of venting valve in canister lid is required to avoid this. See cleaning procedure in manual chapter 5.5	When venting valve is cleaned it will open when product is sucked from canister.							X	
CBP14	Part damaged or broken	If parts are damaged those can be ordered through your supplier / service partner.										X

If the problem is different from the listed ones, the root cause is inside the dispenser.

Spare Parts for Operators

Article Code	Picture	Article Text	Notes
432		Canister 5L, PE, food safe BLANK RED CAP	Canister for cleaning and / or product storage
495		Lid for 5L-canister with CPC Panel Mount Female 3/8	Lid with valve for canister (432)
659		Check valve - combination valve 7.7 mm material: ML-153 silicon white	Vacuum valve for lid (495)
196		Double click Intake hose CPC Coupler / 0.13 m hose / filter / 1.5 m hose /CPC Coupler	Intake hose
822		Strainer adapter, 100 micron for JG 3/8" intake line 3/8" - 3/8"	Intake filter
1179		Fine filter - strainer, 200 mesh per inch 100 micron particle size	Filter element of filter (822)
1316		CPC Elbow coupler 3/8 PTF - NSF valved, POM hose 9.5mm OD, 6.4mm ID	
1310-Q5		O-Ring 7.65 x 1.78 mm (QTY 5 each) for CPC Elbow-Coupler (1316) Type: AS568-011 / FDA Buna-N	O-Ring for CPC Elbow (1316)
382		Drip tray NSF compliant dimensions 165x150x16mm AISI 304	
1437		Tap handle - chrome plated plastic (BI)	
1447		Tap handle - stainless (BI)	
1411		Tap handle - Oak wood Height 16 cm, conical	
1472		Stout-Tap NSF (BI) without nozzle, handle and shank	
410		Jet Nozzle Mono (0.6 l/min) Connection thread IT: 9/16" - 26 TPI	

1419		Nitro Dispenser Combi-Key	Tool for filter (822) and tap (1472)
783		Rubber feet 7,2/11 LDPE, black	
856		Power plug cable North America type B - C13 plug / Nema 5-15 P 1.8 m	
1780		Accessories box Nitro-Dispenser (Spare part) All parts 1-tap NE (USA/CA)	All parts included as shown in manual
419		Transport carton SET ND 2020 slim with handles and cardboard inserts Size: 650 x 255 x 590 mm (H x W x D)	Transport packaging components
414		Packaging foam parts ND 2020 slim	Transport packaging components
506		ONE-PRO Cleaner Jar 566 g (20 oz) Enough for approx. 100 cleaning cycles	

8. Disposal

The dispenser can be disposed in a recycling center for electrical appliances / refrigerators. Do not dispose it in domestic waste. Please notice the relevant national regulations.

9. Warranty

The guarantee and warranty period during proper and intended use is 2 years.

Defect components are replaced from Carbotek.

10. Declaration of Conformity

Carbotek Systems GmbH, Germany, declare under our sole responsibility that the product is in conformity with the following standards:



11. Contact Data



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