



NITRO COFFEE DISPENSER OPERATION MANUAL

KC KHS-2CNSS Brushed SS / KC KHS-2CNBS Black SS / KC KHS-2CNMS Mirror SS

Safety Regulations

Never allow water to come into contact with any of the electrical parts of the Nitro Coffee Dispenser. There is a danger of creating a short circuit.

Intended Use

The Nitro Coffee Dispenser is intended to be used in cafes, restaurants, & pantries. It dispenses liquid from any pressurized or non-pressurized container (ideal for use with a Bag in Box (BiB)) by drawing liquid, infusing it with atmospheric nitrogen and chilling it to 2°C. Do not use boiling or unfiltered liquids. The Nitro Coffee Dispenser must only be operated by a trained person. The appliance is not to be used by persons (including children) with reduced physical, mental or sensory abilities or with scarce experience and/or expertise, unless they are supervised by a person responsible for their safety, or they are instructed by this person on how to properly use the Nitro Coffee Dispenser.

Power Supply

The Nitro Coffee Dispenser must be connected to the power supply in accordance with its specifications. Only connect the Nitro Coffee Dispenser with the specified supply voltage.

Power Cord

Never use the Nitro Coffee Dispenser if the power cord is defective. Report any defects in the cord and/or plug to the service provider immediately. Do not pass the power cord around corners, over sharp edges or over hot objects and keep it away from oil. Do not use the power cord to carry or pull the Nitro Coffee Dispenser. Do not pull out the plug by the power cord nor touch it with wet hands. Do not let the power cord hang freely from tables or shelves.

For the Safety of Others

Ensure that children cannot play with the Nitro Coffee Dispenser and/or the packaging materials. Observe the warning and safety instructions on the electrical components and in this manual. Improper use of the Nitro Coffee Dispenser such as opening the Nitro Coffee Dispenser during operation, incorrectly operating the Nitro Coffee Dispenser, or not following standard guidelines for operating electrical equipment may lead to injury.

Fire Safety Precautions

In case of fire, use carbon dioxide (CO₂) extinguishers. Do not use water or dry powder extinguishers.

Suitable Location for Operation and Maintenance

The Nitro Coffee Dispenser should be installed in accordance with the safety regulations in force at the time of installation. Use the Nitro Coffee Dispenser in an environment between 7°C and 32°C. Make sure it is a dust free environment. Avoid placing open flames and/or incandescent objects near the Nitro Coffee Dispenser to avoid melting or other damage to the dispenser housing. If the dispenser has been exposed to such conditions alert the service provider, who will carry out a safety check.

Storing the Nitro Coffee Dispenser

If the Nitro Coffee machine is to remain inactive for a long time, turn it off and unplug it. Store the Nitro Coffee Dispenser in a dry place, out of the reach of children. Make sure the storage area is between 2°C and 37°C Keep it protected from dust and dirt.

Repairs / Maintenance

In case of failure, problems or a suspected fault resulting from a fall, immediately remove the plug from the power socket and alert the service provider or specialised technician. Never attempt to operate the Nitro Coffee Dispenser if it is faulty. Please report any fault in the Nitro Coffee Dispenser to your service provider. Only the service provider and/or technician may carry out servicing operations and repairs on the Nitro Coffee Dispenser, unless otherwise informed. Any repair of the dispenser must be done only when it is switched off and it is ascertained that there is no electric current. All spare parts must be obtained from your service provider. Follow the service and maintenance instructions in this operation manual.

2. General Information

2.1 Use

The Nitro Coffee Dispenser pulls any filtered liquid from a pressurized or unpressurized container. It chills the liquid to 2°C. It infuses the liquid with atmospheric nitrogen.

2.2 Viscosity of Liquid

Ensure that your beverage has been filtered in order not to clog the precautionary pre-filter or if that has been bypassed, not to clog the machine. Thick liquids risk slowing down the liquid pump inside the Nitro Coffee Dispenser. The Nitro Coffee Dispenser comes with a pre-filter that is already fitted into the intake tube. If the pre-filter is not attached you can risk damaging components inside the Nitro Coffee system.

2.3 Beverage container

Any non-pressurized or pressurized container can be used depending on what is required. We recommend using a BiB that comes with the Nitro Coffee Dispenser. Every machine comes with 3 BiB bags and 1 BiB Adaptor.

2.4 Specifications

Product Name	Nitro Coffee Dispenser
Model	KHS-2CNBS/KHS-2CNMS/KHS-2CNSS
Power Supply	115 V / 60 Hz
Dimensions (W/H/L)	20x8.25x18.5 inches
Weight	53.0 lbs
Dispense flowrate	6.6 gph
Coffee temperature at tap*	35° F (+/- 1.8° F)
Internal tubing capacity	0.79 qt.
Warranty	1 year

3. Setup

3.1 Assembly

The Nitro Coffee Dispenser is delivered with the following parts:



Make sure the intake tube is pushed very firmly into both sides of the pre-filter to prevent air bubbles from entering the tube.

3.2 Pouring

1. Assemble the tap handle.
2. Make sure the air-compressor switch at the bottom of the machine is switched off. If the red light inside the switch is off, then the air compressor is off.
3. Plug in the power cord.
4. Connect the intake tube to the Nitro Coffee Dispenser by pushing the male elbow coupler into the female coupler at the bottom of the machine. If you need to release it then push the metal spring and it will loosen. Make sure that the pre-filter is already attached to the tube. It comes attached upon delivery of the Nitro Coffee Dispenser. Make sure all tubes are pushed in very firmly to avoid air bubbles entering the tube.
5. Drop the open end of the tube in any container. The Nitro Coffee Dispenser will pull from any pressurized or non-pressurized container.
6. Turn the air-compressor switch on.
7. Place your cup beneath the stout and pull the handle outward by 90°
8. Return the handle to the start position when you have completed the pour.

3.3 Temperature

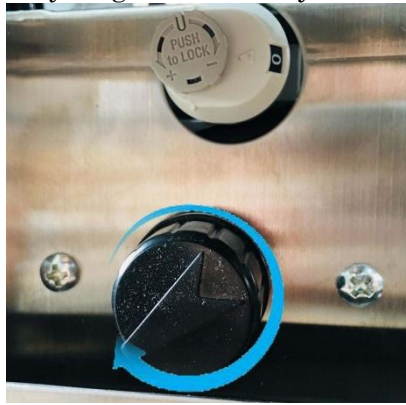
The target dispense temperature is set at 2°C (+/- 1°C). The temperature control knob is in the control panel at the side of the machine. To switch the cooling system off turn the knob to OFF. Make sure there is a click when turning it off. To achieve the coldest temperature, turn the knob to MAX.



3.4 Nitrogen Control

Locate the Nitrogen control knob in the control panel at the side of the machine. Turn it towards the minus (-) sign to decrease the nitrogen and towards the plus (+) to increase nitrogen. Keep it

between 0 for no Nitrogen and 2. The factory setting is at the recommended level at 1. If the gauge is over 2, then it risks too many large bubbles in your Nitro beverage.



4. Storing

Before putting the Nitro Coffee Dispenser out of service for a period longer than 2 weeks, we recommend a thorough flush with an espresso cleaner. Follow the cleaning steps below. Store the Nitro Coffee Dispenser in a dust free environment between 2 C and 37 C.

5. Cleaning

The Nitro Coffee Dispenser needs to be flushed with water every 24 hours. In addition, it must be cleaned every 14 days as described in the steps below. If it has not been used for a long period of time we recommend cleaning it with a suitable espresso detergent.

1. Flush the Nitro Coffee Dispenser with water every 24 hours. To do so, fill an empty bag with clean water. Attach your Bag in Box Adaptor to the bag. Pull the tap so the Nitro Coffee Dispenser pulls the water and cleanses the machine.
2. For your cleaning cycle every 14 days please follow the remaining steps below.
3. Unscrew the stout and rinse it with fresh water. Screw it back on the tap.
4. Disconnect the pre-filter and unscrew it for inspection. Use tools if necessary as it is tightly screwed. Clean the internal net and then reattach the cap. Reattach the pre-filter to the intake tube. Make sure the tubes are firmly inserted.



5. Prepare a suitable espresso detergent in a jug. Dilute with room temperature water. Either fill a bag with the espresso detergent solution and attach the BiB Adaptor; or fill an empty jug with the espresso detergent solution, de-attach the BiB Adaptor, and drop the loose end of the intake tube in the jug.
6. Pull the tap and allow the Nitro Coffee Dispenser to draw the solution through the tubes until it starts flowing from the tap. Follow the detergent manufacturer's recommendations.
7. After use of an espresso cleaner, flush the unit with clean water as done in step 1. Then pull the handle to let the Nitro Coffee machine release the remaining liquid.
8. Unscrew the entire tap at the base. Pull out the silicon tube pictured below and rinse well with water. Re-insert the silicon tube and screw back the tap once complete. Note that the top part of the silicon tube is blue and this should be at the further end inside the machine.



9. Switch of the air compressor and pull the handle again. This will release the pressure. Keep the intake tube connected throughout.

6. Troubleshooting

Problem 1. I am not happy with the quality of my cascade

Remedy:

- A) There may be ice in the tubes. It blocks the nitrogen from infusing.
 1. Unplug the Nitro Coffee Dispenser and wait 15 minutes. Repeat until the Nitro Coffee Dispenser starts pouring a cascade again.
- B) There might be too much air entering the intake tube. This causes large bubbles to pour out at the tap.
 1. Tighten all connections to make sure there aren't any air bubbles flowing through the tube. Make sure that air isn't being pulled from your source - the non-pressurized container.

Problem 2. Nothing is pouring when I pull the tap

Remedy:

- A) Make sure that all connections are connected firmly and that the air compressor is on.
- B) If liquid is flowing through the tube before the pre-filter, yet nothing flows after the pre-filter, then the pre-filter needs to be cleaned.
 1. Disconnect the pre-filter and unscrew it for inspection. Use tools if necessary as it is tightly screwed. Clean the internal net and then reattach the cap. Reattach the pre-filter to the intake tube.
- C) There might be a blockage inside the Nitro Coffee Dispenser from the following:
 1. Ice.
 - i. Unplug the Nitro Coffee Dispenser entirely from the power supply and wait 15 minutes. Repeat until the Nitro Coffee Dispenser starts to work again
 2. Or, unfiltered liquid that has a lot of sediment or coffee residue.
 - i. Complete step 8 in the cleaning section (5). Check to see if there is a blockage.
 - ii. Test to see if the Nitro Coffee Dispenser pours.
 - iii. If not, there may be a bigger blockage in the liquid pump. You will need to unscrew the stout.
 - iv. Remove the BiB Adaptor and place a hose at the far end of the intake tube.
 - v. Turn the air compressor on.
 - vi. Pour water into the intake tube at a high pressure. Pull the tap (still without a nozzle) to flush out any sediment that is stuck in the Nitro Coffee Dispenser.
 - vii. The pressure of the water will force out any blockage.
 - viii. Reattach the stout to the tap.
 - ix. Reattach the BiB Adaptor to the intake tube.
 - x. Resume normal operation.

7. FAQ

Q. I just received my Nitro Coffee Dispenser, how do I set it up?

A. Please follow the instruction manuals that come with the Nitro Coffee Dispenser. It is easy to set up!

Q. Where do I put my Cold Brew coffee or tea?

A. Every Nitro V2PX comes with 3 BiB bags and a BiB Adaptor. You can fill the bags with your Cold Brew and connect the BiB Adaptor to the nozzle of the BiB bag. Take the other end of the BiB Adaptor and clip it into the Nitro Coffee machine from behind. Please watch our instructional video.

Q. Is the cleaning process easy?

A. Yes, you need to fill a container or BiB bag with 1 litre of water and pull the tap to draw the water into the Nitro Coffee Dispenser and out of the tap. This needs to be done daily to keep the tubes clean. We recommend that this is also done with an espresso solvent dissolved into the water once every two weeks. Steps on how to clean the Nitro Coffee Dispenser can be found in the Operation Manual.

Q. I am not getting enough crema, what should I do?

A. There are 3 possible reasons. First, rotate the nitrogen calibration by following the (+) sign to increase the amount of nitrogen. Secondly, the pre-filter might be clogged and needs to be cleansed. Thirdly, the Cold Brew coffee that you are using may be too oily, unfiltered, or brewed in a mineral poor water. Please read more about water composition in our blog and what role it plays in creating a creamy nitro coffee. Check out our troubleshooting section.

Q. I am getting large bubbles in my nitro Cold Brew coffee, what should I do?

A. There are 2 possible reasons. First, rotate the nitrogen calibration knob to decrease the amount of nitrogen infused into your beverage. Secondly, make sure all the tubes are pushed in firmly and there is no air seepage. Observe if there are any air bubbles flowing through the intake tube. Air that seeps into the tubes will ultimately come out at the tap in the form of air bubbles. This will also happen if your intake tube is sucking in air.

Q. My beverage is not cold enough, how do I make it colder?

A. Check to make sure there isn't a power issue. If the air compressor is working then the problem is not power related. Make sure the fridge knob is turned to its coolest setting. The temperature can be adjusted on the thermostat knob on the back panel. The target pour temperature is 2°C. In cases of continuous pouring temperature may rise to 5°C

Q. The Nitro Coffee Dispenser is not pouring coffee, what should I do?

A. There are several reasons why this may happen. All of them are easily remedied. Please follow our troubleshooting guide in this Operation Manual.

Q. When I pull the tap I get large bubbles followed by a creamy nitro, how do I make the entire beverage consistently creamy?

A. We recommend purging before every pour. When pouring count 2 seconds and wait for any air bubbles in the tap to come out and then tilt your glass beneath the pour and fill to the top.

Q. When I pour two glasses of nitro Cold Brew coffee, the second one is sometimes slightly less chilled than the first one. Why is that?

A. We recommend pouring for 45 seconds and then pausing for 15 seconds before your 2nd pour. This allows the coffee inside the fridge to chill to your desired temperature.

Q. The Nitro Coffee Dispenser has a humming sound that comes and goes, why?

A. This is the sound of the fridge thermostat. When there is a humming sound this means that the fridge is cooling down to the pre-set temperature on the knob. When the sound stops this means that the air compressor has also stopped as the desired temperature has been reached.

Q. I have the fridge set at the coolest possible temperature but the beverage is not cold enough, why is this?

A. The variance between the Cold Brew coffee in your container/BiB and at the tap is 18 C. This means if your Cold Brew coffee is 20 C then the nitro coffee at the tap will be 2 C.

Q. Do I need to keep a gap between the vents on the side and top of the machine and the nearest wall?

A. Yes, just allow a few centimetres for the side vents and 10 cm from the top.

8. Warranty & Service

The warranty period is 1 year. Please review our warranty terms and conditions. Defective components are replaced by (.....)

9. Disposal

The packing materials can be recycled. Unplug the appliance and cut the power cord. Deliver the appliance and power cord to a service centre or public waste disposal facility. This product may not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.