

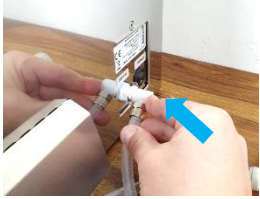










Quick User Guide – Carbotek Nitro-Dispenser






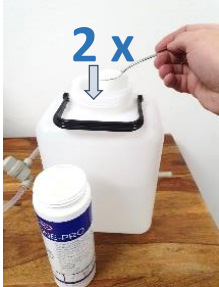

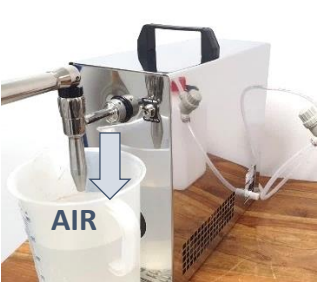
Models: ND-20-01-01 XX / ND-20-01-02 XX / ND-20-02-01 XX / ND-20-02-02 XX
 XX stands for customer specific setup or might be blank.

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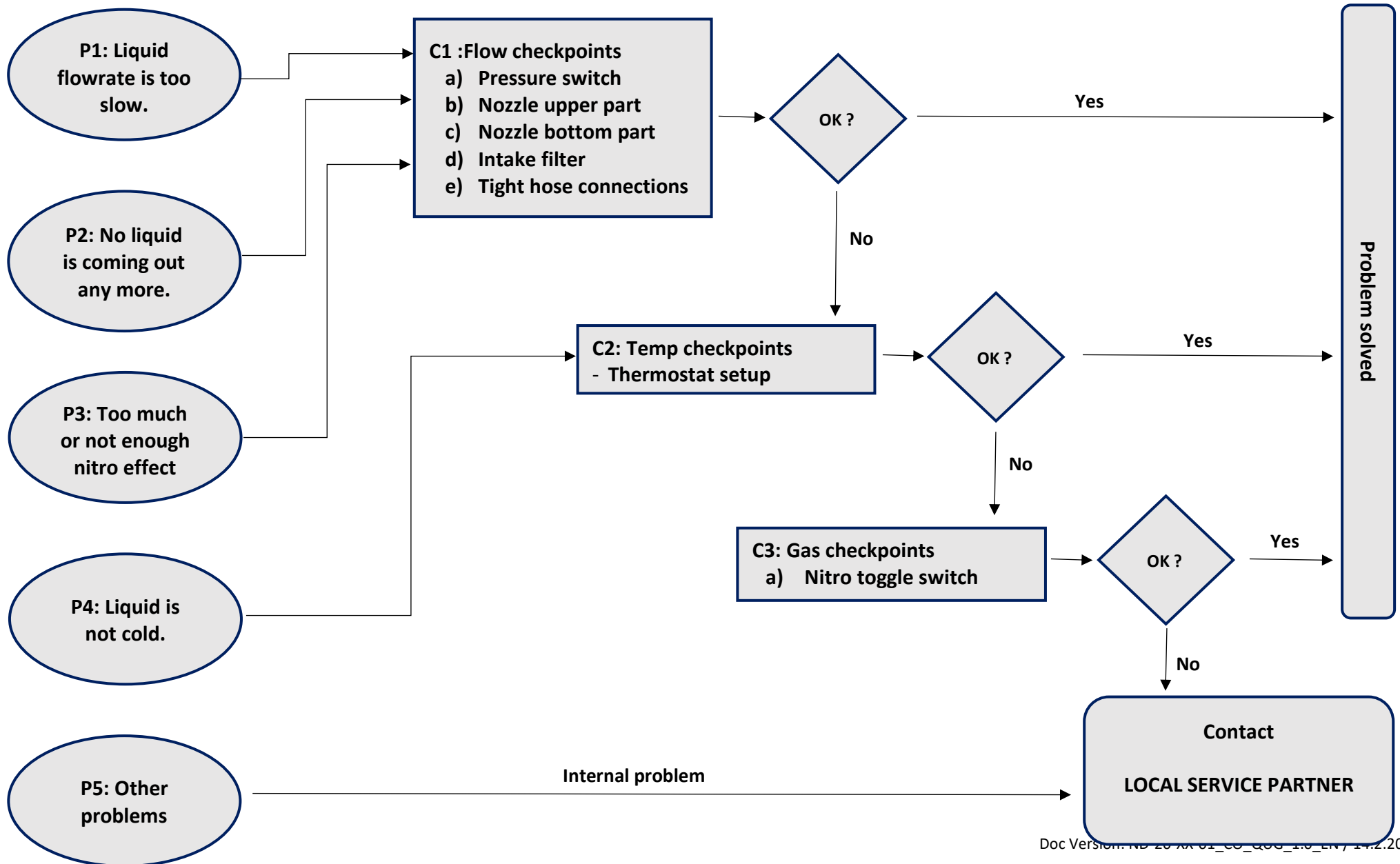
SET UP

1. Scope of Supply 1 x Nitro Dispenser 1 x 5 L canister with CPC coupler 1 x Accessory Box with 1 x Drip Tray 1 x Tap valve 1 x Tap valve handle 1 x Tap key 1 x Filter key 1 x Intake hose with filter and coupler 1 x URNEX One Pro detergent jar 1 x Operation manual		2. Place the dispenser <ul style="list-style-type: none"> Place unit on a level and dry place Leave a gap of at least 3 cm on the left and right side to keep ventilation holes open. Put the drip tray in front of the dispenser and remove the foil. On 115V models click shield in lateral ventilation area. 	
		 <p>115V models only</p>	
3. Connect intake hose <ul style="list-style-type: none"> Push the CPC coupler into the machine 		4. Connect the tap / insert tap valve <ul style="list-style-type: none"> Connect the tap and insert the tap valve into the shank and tighten it with the nut turning clockwise. 	
			
5. Prepare the tap / attach the handle <ul style="list-style-type: none"> Attach the handle Fix position with the counter screw nut. 		6. Adjust temperature on +5°C <ul style="list-style-type: none"> Put the thermostat dial on 7. This is a target temperature of + 5°C on coffee dispensers. On cocktail dispensers, position 7 is a temperature of -1°C. Turn the dial to 4 to avoid water freezing during setup or cleaning. 	
			
7. Prepare Canister – with water <ul style="list-style-type: none"> Put 2-3 l of water in the canister Shake it a few times Connect the CPC coupler The coupler MUST click in 		8. Flush the dispenser <ul style="list-style-type: none"> Connect the power cable Switch ON the air compressor toggle switch Start flushing dispenser with water. 	
		 <p>Toggle switch ON</p>	
9. Connect Cold-Brew <ul style="list-style-type: none"> Put the Bag-In-Box or the Cold-Brew canister in its position Make sure that the coffee has been filtered with at least 100 µm or finer! Connect the CPC coupler of the intake hose. 		10. Fill dispenser with product <ul style="list-style-type: none"> Put the nitro switch on "NITRO ON" Start tapping until product is coming out of the tap. 	
		 <p>NITRO ON</p>	
11. Ready to serve <ul style="list-style-type: none"> The Nitro-Dispenser is now ready to serve excellent Nitro Cold-Brew coffee or coffee cocktails. <p>Enjoy!</p>			

WEEKLY CLEANING

<p>1. Prepare Canister – with water</p> <ul style="list-style-type: none"> Take a canister, flush it with water and fill in 2.0 l of water. Before connecting to the dispenser, shake it to ensure that all internal spots are rinsed. Connect canister to the CPC coupler 		<p>2. Flush the dispenser – with water</p> <ul style="list-style-type: none"> Open the tap and flush about 2.0 l of water through the dispenser. 	
<p>3. Check intake filter</p> <ul style="list-style-type: none"> Take the intake filter key and open the intake filter. Some ml of water will spill out. Take out the filter screen and remove particles or sediments under the water tap. 		<p>4. Check tap nozzle - upper part</p> <ul style="list-style-type: none"> Unscrew the tap nozzle upper part by hand Check the blue screen for particles. Flush those under the water tap if required. 	
<p>5. Check tap nozzle - lower part</p> <ul style="list-style-type: none"> Unscrew the tap nozzle lower part by hand Check the metal disc for particles. Flush those under the water tap if required. 		<p>6. Prepare Canister – with URNEX One Pro detergent</p> <ul style="list-style-type: none"> We recommend wearing gloves and safety glasses when using chemicals. Recommended detergent is: URNEX One Pro Prepare cleaning solution with warm 2.5l water and 2 teaspoons of URNEX powder Shake it Connect canister to the CPC coupler 	
<p>7. Flush the dispenser with detergent</p> <ul style="list-style-type: none"> Open the tap and flush 2.5 l of the detergent through the dispenser Wait 10 min Flush the rest of the detergent through the dispenser 		<p>8. Prepare Canister – with water</p> <ul style="list-style-type: none"> Take the canister, flush it with water and fill in 2.0 l of water. Shake it Connect canister to the CPC coupler 	
<p>9. Flush the dispenser – with water</p> <ul style="list-style-type: none"> Open the tap and flush about 2.0 l of water through the dispenser. 		<p>10. Take the water out</p> <p>If you want to continue with product dispense: - Connect back to your dispensing product</p> <p>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</p>	
<h1>Thank you</h1>			

NITRO-DISPENSER - TROUBLESHOOTING GUIDE



Problems / Checkpoint - Explanation

Problems	
P1	<p>Liquid flowrate is too slow.</p> <p>With a 2-hole disc the flowrate should be 0.6 l/min and with a 5-hole disc 1.2 l/min. With a tolerance of +/- 10% to the mentioned flowrates.</p>
P2	<p>No liquid is coming out any more.</p> <p>No dispense happens at all, by opening the tap.</p>
P3	Too much or not enough nitro effect
P4	<p>Liquid is not cold</p> <p>If the dispense temperature is not right, this can be adjusted but might also be circumstance related.</p>
P5	<p>Other problems</p> <p>Things we have experienced so far:</p> <ul style="list-style-type: none"> a) Air compressor does not stop b) Air compressor is starting every few minutes or even seconds c) Leaking d) Pump is not sucking product any more

Checkpoints	
C1 - Flow	Checking the parts in the dispenser where a flowrate restriction / blockage might occur.
a) Pressure switch	Check if the lateral toggle switch is switched ON, the dispenser is connected to the power net and the power supply is on. → see Quick-User Guide / SETUP / No 8
b) Nozzle upper part	Unscrew the Nozzle upper part and try to dispense again. The flowrate without nozzle (upper and bottom part) should be around 1.5 l/min. Check if there are debris / particles on the blue screen in the Nozzle upper part. If yes, rinse them out under the water tap. Do NOT yet put the Nozzle back on the dispenser and continue with the checkpoints below. → see Quick-User Guide / CLEANING / No 4
c) Nozzle bottom part	Unscrew also the bottom part of the Nozzle and check if there are debris / particles on the metal disc holes. If yes, rinse them away or use a small needle. → see Quick-User Guide / CLEANING / No 5
d) Intake filter	Unscrew the intake filter and check if there are debris / particles on the 200 mesh (100 micron particle filter) filter screen. If yes, rinse them away under the water tap. → see Quick-User Guide / CLEANING / No 3
e) Tight hose connections	Make sure that the dispenser is not sucking in air. There MUST be no gas bubbles entering the dispenser through the intake hose. If you see gas bubbles during dispense, most likely there is a loose push-in hose connection.
C2 - Temp	Checking temperature related settings that can also result in liquid freezing
Thermostat setup	<p>There is a target temperature of 5°C when the temperature dial on the front is turned clockwise on 7 (max). Depending on the coffee inlet temperature it might take 3-5 min until the target temperature is reached. Dispensers for Coffee cocktail have a colder setup. On these units the target temperature on position 7 is -1°C. Putting the dial on 1 is +12°C higher than on 7. So every step on the front dial is a delta of about 2°C.</p> <p>Especially Coffee-Cocktail dispensers might freeze if they are setup to max cold and operated with non-alcoholic liquids. Reduce thermostat setup and wait 1-2 hours.</p> <p>In peak (nonstop) dispense situations, where the cooling compressor has no time to recover, the delta temperature between inlet and outlet is about 7°C at a flowrate of 0.6 lpm. → see Quick-User Guide / SETUP / No 6</p>
C3 - Gas	Checking gas flow settings
a) Nitro toggle switch	If your dispenser has a toggle switch beside the tap, check in both positions (ON and OFF) if there is a nitro effect coming. → see Quick-User Guide / SETUP / No 10
	The amount of gas sent to the liquid stream is not adjustable in this dispenser generation. Cold-Brew Coffee dispensers have a slightly higher gas flow than Coffee-Cocktail dispensers. More gas creates a higher crema (foam). To exchange the gas flow Nozzle, get in touch with Carbotek.