

# User manual



## NORDIC Juice machine

Your retail dealer

.....

.....

U / EN

Rev. 090921

### **Dispenser description for Nordic**

Nordic is a dispenser for cooling water and mixing juice- concentrate to a ready to drink product. The dispenser is for three non-carbonated drinks and chilled water.

- The dispenser is connected to the water mains by a pressurised tube and to an electric wall socket by a power plug.
- The water-pressure is adjusted with the water-regulator and the pressure is displayed on the manometer.
- The water is chilled by the cooling-block, which in its turn is chilled by the air-cooled compressor.
- The water-temperature is adjustable with a thermostat. The mixing ratio product/water is adjusted with the ejectors.
- Pushing one of the four buttons on the front panel dispenses the mixed product or water.

### **General !**

Read the instructions carefully before you start working with this equipment.  
The equipment should be installed and serviced by trained staff

## Dispenser description Nordic

### Picture



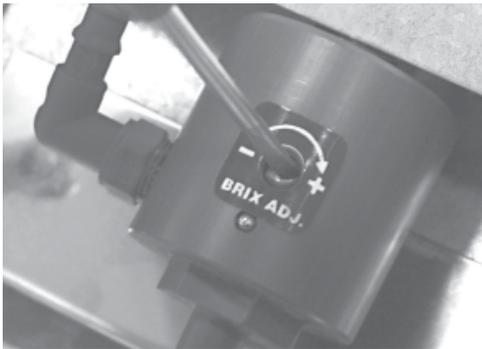
### description

#### **Water-regulator with manometer**

The water-regulator can be adjusted up to 6 bar.

The minimum pressure is 2,2 bar.

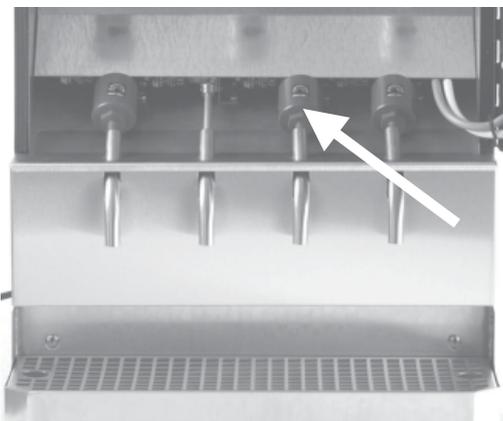
Note! When adjusting the pressure, dispense product.



#### **Venturi ejector**

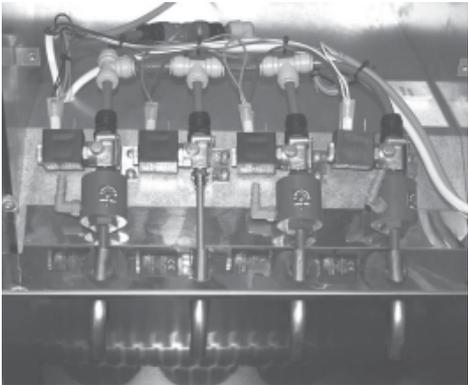
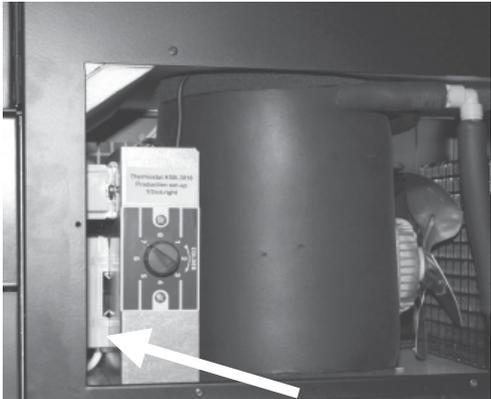
The mixing ratio is adjusted on the ejectors. When water flows through the ejector, the concentrate mixes with the water.

The mixing ratio is regulated on the ejector. There are two kinds, one for products with cells, and one for products without cells.



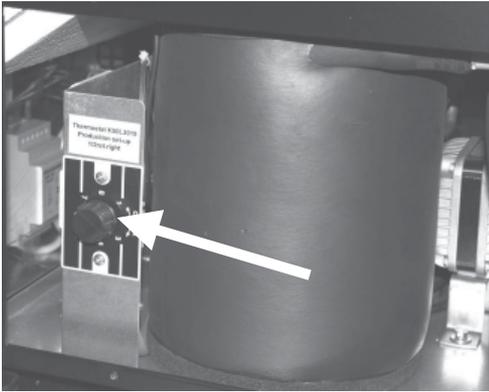
Turn the adjustment screws according to the label on the ejector in order to increase or decrease the amount of concentrate.

## Dispenser description Nordic

Picture	description
	<p><b>Water valve</b></p> <p>The Water valve is connected to the ejector and opens the water-flow.</p>
	<p><b>Push-button</b></p> <p>The push buttons on the front panel controls the water valves. Use only one button at a time.</p>
	<p><b>Cooling-block</b></p> <p>The cooling-block is a flow through block with three built-in stainless steel coils. <b>The coils are for water, refrigerant R134A and thermostat</b></p>
	<p><b>Transformer</b></p> <p>The transformer is a 230 / 24 V (32 VA). The transformer supplies 24 V to the magnetic-valves.</p>

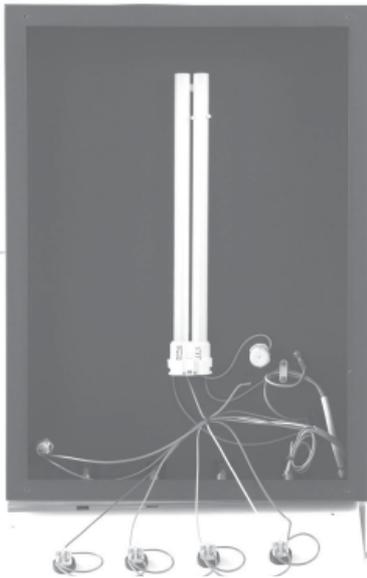
# Dispenser description Nordic

Picture	description
---------	-------------



## Thermostat

The thermostat keeps the temperature within correct range. Factory adjusted do not adjust, this may cause damage and water leakage in the dispenser.

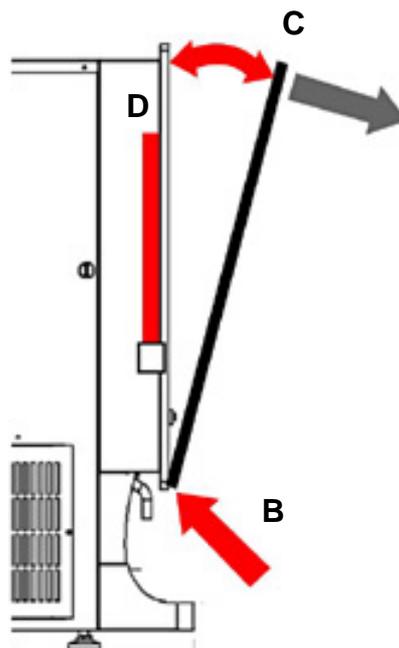
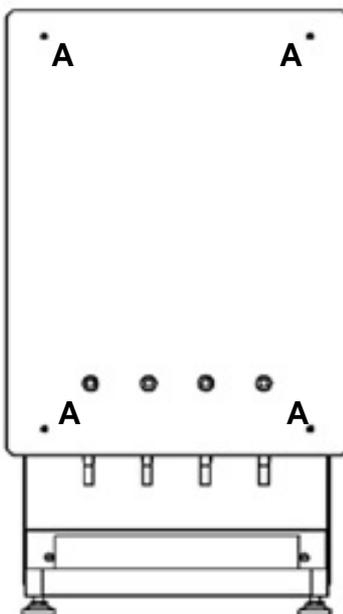


## Illumination

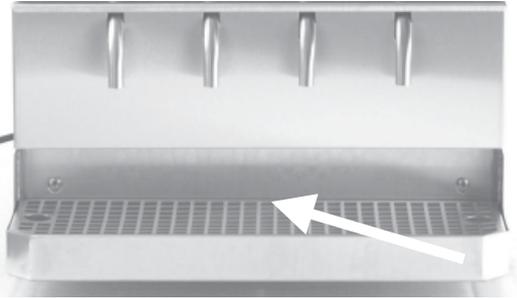
Behind the front panel there is a low-energy fluorescent lamp with the effect of 24W. The fluorescent lamp is a PL-lamp.

## Change low-energy lamp

Loosen frontplate (4 screws). (A), hold the frontplate see (B). Lift out frontplate (C) and change lamp. assemble the frontplate.



## Dispenser description Nordic

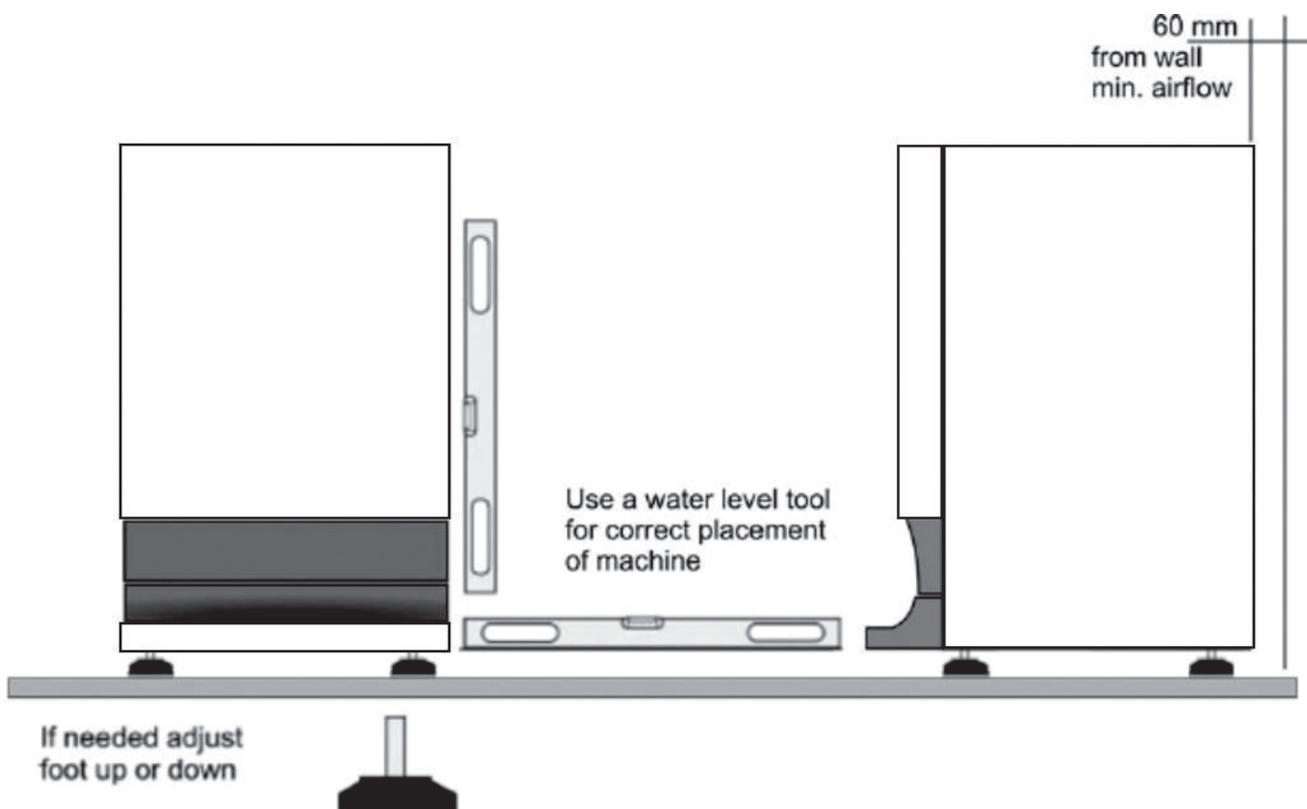
Picture	description
	<p><b>Drip-tray</b></p> <p>It is possible to connect drainage to the drip-tray.</p>
	<p><b>Large particle-filter</b></p> <p>A large particle-filter is fitted between the cooling block and the water valves.</p> <p><b>It is possible to rinse the filter if needed.</b></p>

## Installation and users instruction Nordic

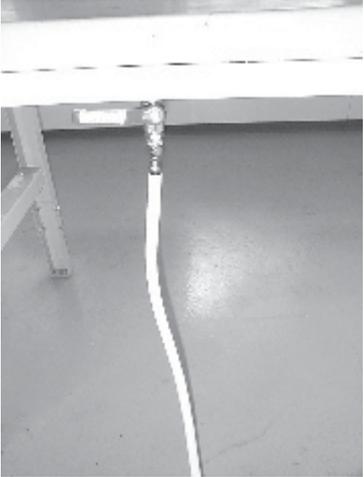
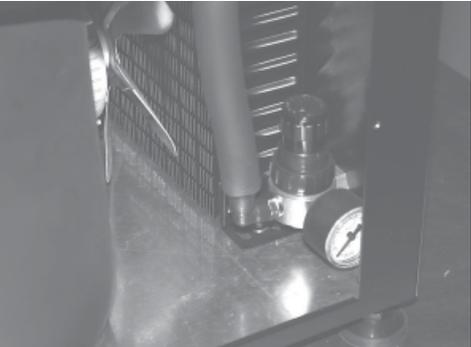
Picture	description
	<p>Unpack dispenser from the packaging and ensure that nothing is damaged.</p> <p>Place the dispenser to it's position. Note: The dispenser weights about 49 kg.</p> <p><b><u>Don't lift by door/front panel.</u></b></p> <p>Allow a space of min. 40mm around the frame for air circulation.</p>

**Place the machine on a flat level and waterproof surface.**

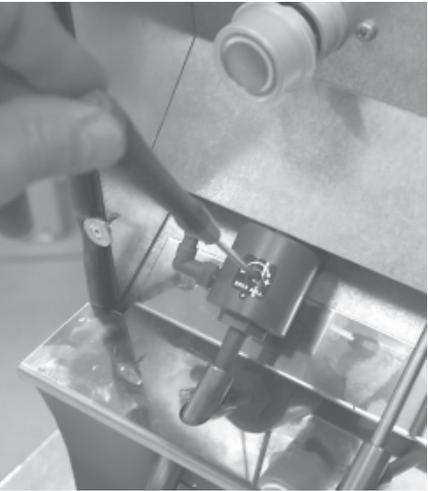
If necessary adjustment with the adjustable feet.

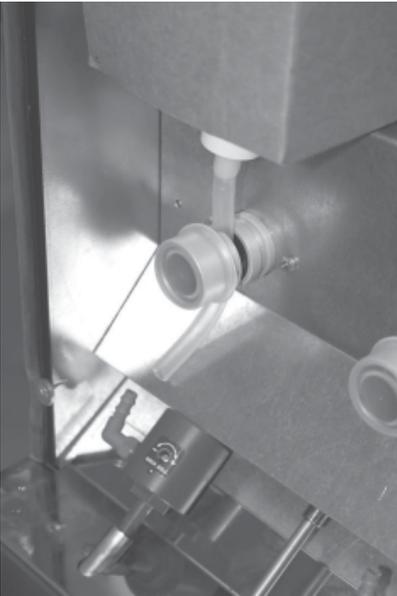


## Installation and users instruction Nordic

Picture	description
 A black and white photograph showing a white water hose connected to a cold water main. The hose is secured with a metal fitting and a seal. The background shows a light-colored wall and a dark floor.	<p>Connect the water-hose from the dispenser to the cold water mains (do not forget seals).</p> <p>Turn on the water and check for leaks.</p> <p><b>Note!</b> It is strongly recommended to use some sort of water isolator in the water line in case of an emergency leakage.</p>
 A black and white photograph showing a person's hand plugging a power cord into a wall socket. The hand is wearing a watch. The background shows a white wall and a white cabinet.	<p>Connect the power-plug to the wall socket.</p> <p><b>Now the compressor starts and the front panel lights up.</b></p>
 A black and white photograph showing a manometer (pressure gauge) inside a dispenser. The gauge has a needle pointing to a reading of 2.2 bar. The background shows the internal components of the dispenser.	<p>The water pressure is factory adjusted to 2.2 bar, which is the correct working pressure.</p> <p>Check by pressing and <u>holding</u> one product button and reading the manometer. If there is variations adjust by pulling up knob and turn it until you get a reading of 2.2 bar.</p>

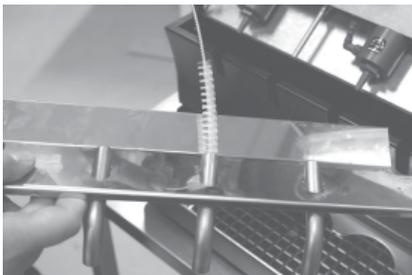
## Installation and users instruction Nordic

Picture	description
	<p><b>Place the bag-in-box in the dispenser and connect it to the pinch solenoid-valve and ejector.</b></p> <p><b>Pushing the centre of the pinch solenoid valve and sliding the tube in from the side, fixes the tube.</b></p> <p><b>Cut the tube to correct length and push it onto the elbow connector on the ejector.</b></p>
	<p><b>Place a cup under the outlet pipe.</b></p> <p><b>Dispense a glass of product by pressing the push-button.</b></p> <p><b>Check that the brix-value (mixing ratio) is okay, if not adjust.</b></p>
	<p><b>To adjust the brix, use the adjustment screw on the ejector.</b></p> <p><b>The dispenser is now ready to use</b></p>



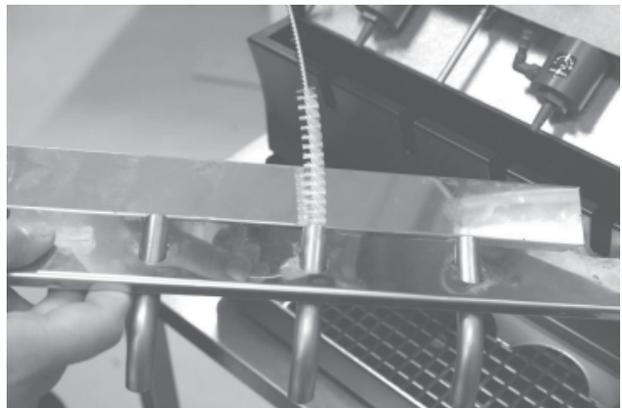
### Change of bag-in-box

1. Turn the box so the perforated side is turned upwards.
2. Brake the perforation on the box and place the main pipe in the punched hole
3. Place the box in the dispenser so that the tube points down to wards the pinch-solenoid. Press the end of the pinch-solenoid and insert the tube from the side
4. Check the tube length so that it will reach 1cm into the venture nipple.
5. If the tube is to long, cut it to the right length.
6. Slip the tube to the venture nipple.
7. Make sure that the tube is not twisted, and shut the door to the dispenser.
8. Place a cup under the outlet-pipes and draw until the juice comes out.



### Daily cleaning

1. Clean internal and external surface with a damped rag.
2. Use the cleaning-brush to clean the outlet-pipes
3. Wet the brush in water and put it in the outlet pipe from the inside of the door.
4. Clean the drip-tray.





### Periodic cleaning

1. **Disconnect the bag-in-box tube from the venturi.**
2. **Fill the cleaning bottle with warm water and some washing-up liquid and connect it to the venturi.**
3. Shut the dispenser door and put a cup under the outlet-pipes rinse the venturi and the outlet-pipes by pressing the respective push buttons.
4. Use the cleaning-brush to clean the outlet pipes

**Return the boxes and connect the tubes to the venturis.**

## Handling and cleaning instructions Nordic



Fig. 1.

1. Open the Bag-in-Box at the perforation. Pull out the silicon tube and the plastic connector, so it is clear of the box.
2. Place the box inside the dispenser. Press in the pinch solenoid and slide the tube in to the opening. (Fig 2)
3. Push the tube onto the ejector nozzle. (Fig3)
4. The dispenser is now ready to use.



Fig. 2.

1. When changing the Bag-in-Box, the dispenser should be cleaned with hot water.
2. Fill the rinsing bottle with a solution of hot water and a sanitising agent. Add two drops of washing-up liquid. Connect the tube to the nozzle and wash it through. (Fig 4)
3. Wet the brush in a hot water and sterilising solution. Clean the outlet pipes by pushing the brush all the way through the pipe and back again. (Fig 5)
4. Rinse the pipes with the water solution from the bottle.
5. The pinch solenoid that the tube runs through should be cleaned on a regular basis, by pouring a hot water and sterilising solution over it. This will dissolve any residual concentrate.
6. The air inlet (condenser) at the back of the machine should be cleaned from dust on a regular basis by brushing or vacuuming the grid.



Fig. 3.



Fig. 4.

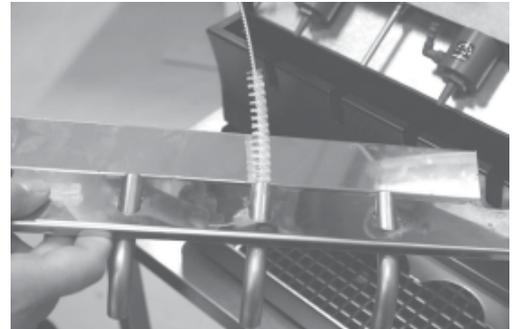


Fig. 5.

## Trouble shooting Nordic

<b>Problem</b>	<b>Probable cause</b>	<b>Attend to</b>
<b>Concentrate is Dripping from outlet pipe.</b>	<b>The tube is not properly fixed into the pinch solenoid valve</b>	<b>Fix the tube properly into the pinch solenoid valve</b>
<b>Mostly water or only water coming from outlet pipe</b>	<b>The tube is kinked due to incorrect length</b>	<b>Cut the tube to correct length</b>
	<b>The pinch solenoid needs cleaning.</b>	<b>Clean pinch solenoid with hot water.</b>
	<b>The tube is twisted.</b>	<b>Untwist the tube.</b>
	<b>The bag is empty.</b>	<b>Replace bag.</b>
<b>Nothing happens when I push the buttons, and there is no "clicking" sound.</b>	<b>No power to the valves</b>	<b>Check the valve on/off - key switch inside the door.</b>
	<b>Thermo fuse in the transformer has cut. (On older models, a fuse has blown).</b>	<b>Remove power to the dispenser and put it back on after 10 sec. (Change fuse).</b>
<b>Nothing happens when you push the buttons, and there is a "clicking" sound.</b>	<b>Water supply turned off</b>	<b>Check water supply</b>
	<b>Water regulator turned off or failed. (Manometer =0 bar).</b>	<b>Check water regulator (change needle valve in water regulator).</b>
	<b>The cooling coil has frozen. (Manometer = max pressure)</b>	<b>Shut off water supply and call service.</b>

## Trouble shooting Nordic

Problem	Probable cause	Attend to
<p>The taste is to strong/ weak.</p>	<p>The dispenser is not cleaned properly.</p>	<p>Clean ejector, outlet pipes and pinch solenoid.</p>
	<p>The ejector is not adjusted correctly.</p>	<p>Call service.</p>
<p>It constantly drips fluid from the outlet- pipes.</p>	<p>Dirt in the water valve.</p>	<p>Call service.</p>
<p>Troubles with cooling system.</p>		<p>Call service.</p>
<p>The drinks are not cold.</p>	<p>Failure in thermostat.</p>	<p>Call service.</p>
	<p>Failure in cooling system.</p>	<p>Call service.</p>

## Technical data Nordic

<b>Electrical connection</b>	230 V/50 Hz/ 2,5 A
<b>Water connection</b>	3,0 m Tube with 3/8" internal thread (minimum 2,2bar water pressure.)
<b>Compressor</b>	Elektrolux GL 80
<b>Cooling gas</b>	HFC-134 a Amount to fill 240 gram
<b>Cooling capacity</b>	294 W
<b>Cooling system</b>	Dry block with stainless-steel pipes inside.
<b>Front light</b>	24 W Fluorescent-lamp
<b>Front sign size</b>	400 x 550 mm
<b>Dispenser measurement</b>	Height 745 mm With 385 mm Depth 560 mm
<b>Weight</b>	49 Kg

## Notes Nordic

### Note 1.

The thermostat is factory adjusted and improper adjustment may cause the cooling system to freeze causing damage or water leakage in the dispenser.

### Note 2.

It is strongly recommended to use some sort of water isolator in the water line in case of an emergency leakage.

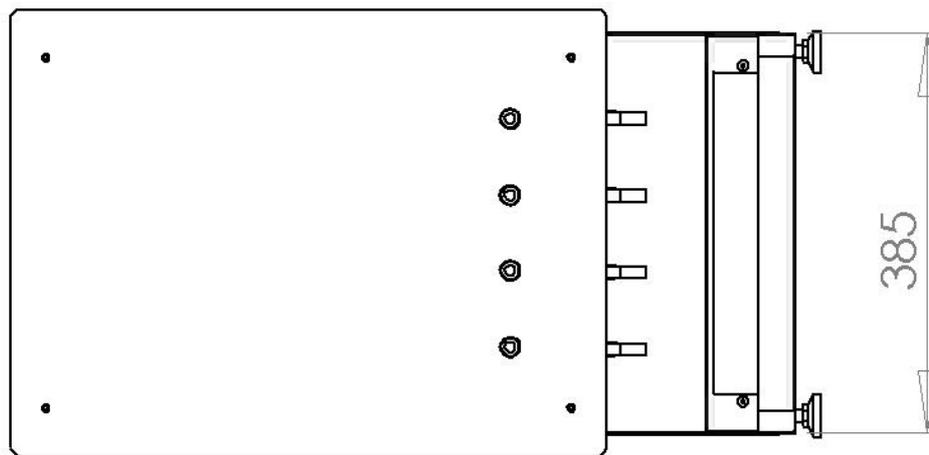
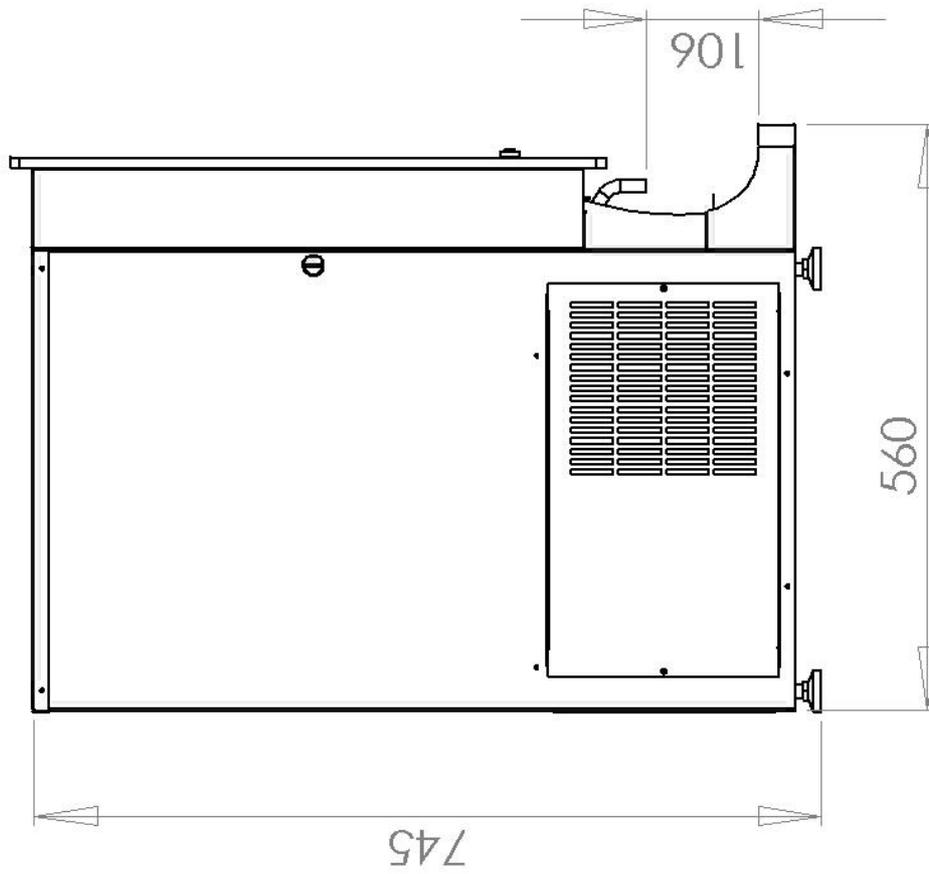
### Note 3.

Maximum ambient temperature in the room where the dispenser is located should not exceed more than 25 C.

### Note 4.

If the dispenser has frozen, check water tubs and connections inside the dispenser before running the dispenser again.

# Dimension sketch.



# COFFEE QUEEN

## NORDIC

Juice machine



### FOR SERVICE

**Please contact your retail dealer**

Din återförsäljare / Your retail dealer

.....

.....

.....

**COFFEE QUEEN AB, Box 960, 671 29 ARVIKA**, besöksadress; Korpralsv 1B,  
Tel vxl; +46 (0)570-47700, Fax; +46 (0)570-47719  
E-mail: [info@coffeequeen.se](mailto:info@coffeequeen.se) [www.coffeequeen.se](http://www.coffeequeen.se)

Art. nr/Art. no. 1704145