

# CUMULUS C50

by GENAQ

## User Guide

Atmospheric Water Generator  
Emergency Response  
50 liters/day



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# 1. General Information

## 1.1. Introduction

GENAQ Cumulus C50 is an Atmospheric Water Generator built in an **Emergency Response** construction, with a nominal generation capacity of 50 liters/day.

The Atmospheric Water Generator has been optimized to maximize the water production and minimize the energy cost per liter of produced water, as well as extend the system operating range to extreme temperature and extreme humidity conditions.

The generator operation diagram is the following:

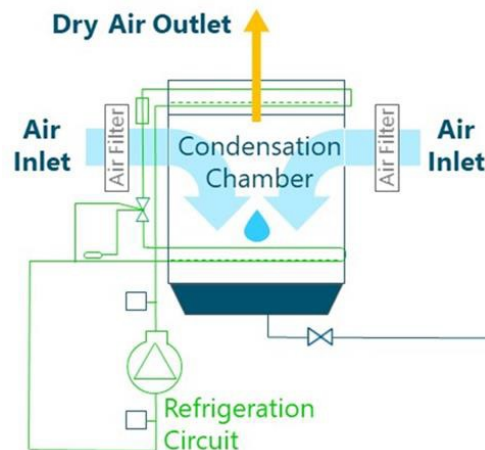


Figure 1: Atmospheric Water Generator working diagram

- The water generator takes laterally an atmospheric air flow that passes through a double air filter to the water precipitator.
- The water precipitator consists of a refrigeration cooler that cools the humid air to temperatures below its dew point, which produces water vapor condensation, present in the atmospheric air.
- When leaving the water precipitator, the air passes through an energy recovery section to precool the incoming air, so that the system energy consumption is considerably reduced.
- Finally, the air flow is carried outside, driven by radial fans.
- The hot and dry air flow is expelled outside by the generator's upper part. Due to the lower specific weight of the exhaust air, it rises naturally in the atmosphere, not interfering with the intake air.
- The condensed water remains in a tray and is pumped to the water filtration and storage system.

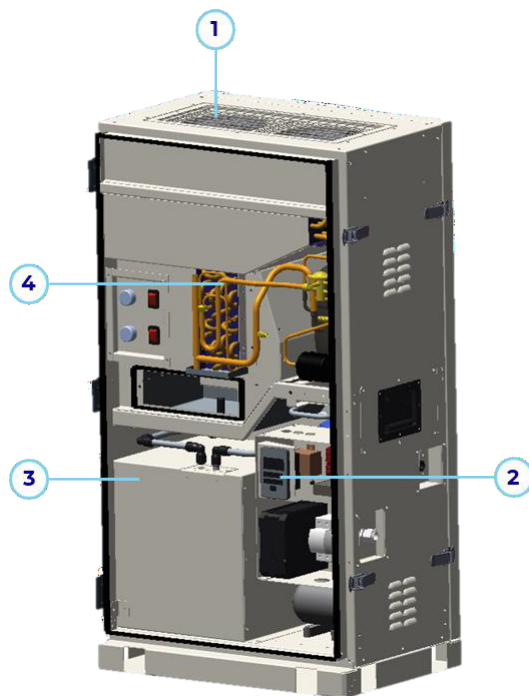
The refrigeration production for the precipitation of the water is obtained through a mechanical refrigerant compression cycle, equipped with alternative high efficiency compressors.

## 1.2. Specifications

Table 1: Technical Specifications

<b>GENAQ Cumulus C50</b>	Version	<b>2.1</b>
	Nominal Generation, at 30°C and 80% RH (±10%)	<b>52 L/day</b>
	Dimensions (Height x Width x Depth)	<b>1050 x 390 x 575 mm</b>
	Weight	<b>70 kg</b>
	Color	<b>Green</b>
	Manufactured in galvanized steel sheet structure with polyester paint of high resistance to corrosion	
<b>Power Supply</b>	Power Supply (Other Voltages Available)	<b>230V-I-50Hz</b>
	Nominal Power	<b>1 kW</b>
	Plug/Socket	<b>Type F</b>
<b>Refrigerant Circuit</b>	Refrigerant	<b>R134A</b>
	Evaporation coil built in copper tubes and aluminum fins, lacquered with epoxy paint	
	Condensation coil built in copper tubes and aluminum fins	
<b>Air Circuit</b>	Nominal Air Flow	<b>300 m3/h</b>
	Maximum Fan Operating Intensity	<b>3.3 VDC</b>
	Air Filter	<b>M5 fine particles air filter</b>
<b>Hydraulic Circuit</b>	Food grade low density lineal polyethylene tube	
	Nominal Water Flow	<b>1 L/min</b>
	Pump Maximum Power	<b>20 W</b>
	Internal Water Storage	<b>9 L</b>
	Water Treatment	<b>Sediment Filter, Activated Carbon Filter, Ultrafiltration Filter, Zeolite Filter, Mineralization Filter, and UV lamp</b>
<b>Control and Electrical Circuit</b>	Control	<b>Dixell XW60VS</b>
	Control Description	<b>Electronic control unit with temperature display</b>
	Electrical and control panel with thermal, magnetothermal and differential protection	
	Safety, Alarms, Operating and Defrosting Cycles Control	
<b>Safety Devices</b>	Protection against refrigerant pressure abnormal levels for high and low pressure	
	Automatic resetting thermal protections in the compressor and motor fan	
	Protection fuses and electrical panel's general grounding	
<b>Limits</b>	Temperature Limits	<b>10°C to 45°C</b>
	Relative Humidity Limits	<b>10% to 100%</b>
	Storage Limit	<b>-15°C to 70°C</b>

## 1.2.1. Circuits and Dimensions



Number	Description
1	Air circuit
2	Electrical and control circuit
3	Hydraulic circuit
4	Refrigeration circuit

Figure 2: Circuits

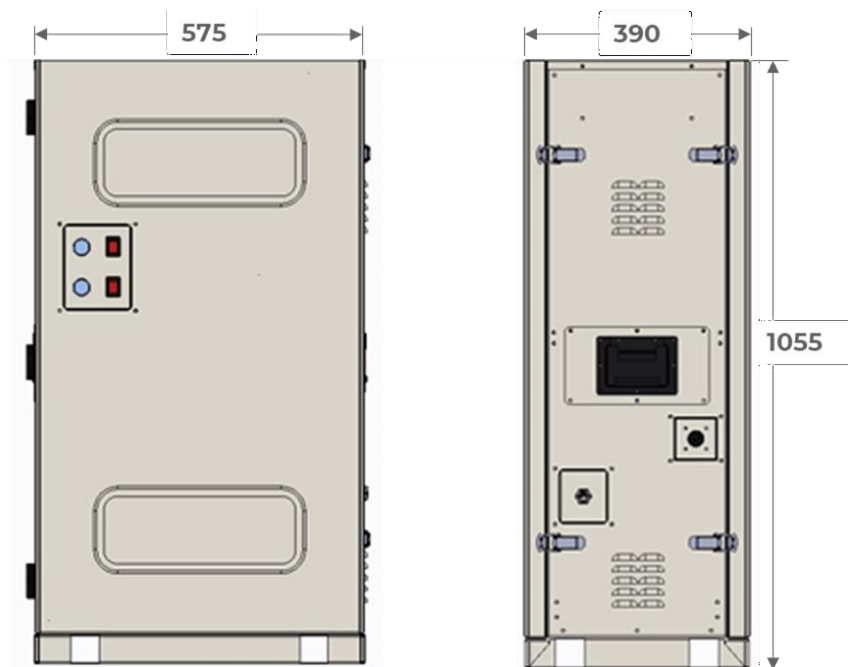


Figure 3: Dimensions

## 1.2.2. Safety Recommendations

To avoid all accidents risks during installation, commissioning, or maintenance, it is mandatory to follow the specific recommendations. The generator start-up, its repair and maintenance must be carried out by qualified personnel.

It is mandatory to follow the recommendations and instructions contained in maintenance manuals, labels, and specific instructions.



Before intervening in the generator, verify that the general generator power is cut to avoid electric shock

Refrigerant leaks can cause:

- Asphyxia, due to displacement of oxygen from the air, narcotic effect and cardiac arrhythmia, due to refrigerant's inhalation.



Always ensure good ventilation in the work area

- Eye irritations and burns from splashes or skin contact.



Wear safety glasses and gloves. Avoid all contact of the skin with the cooling fluid



Be careful with the cutting elements of the generator

In case of accident by coolant inhalation, act according to the following instructions:

- Move the victim to a place where he/she can breathe fresh air. The victim must remain lying down or in the sideways.
- Call emergency medical services if necessary.

In case of eye injuries due to refrigerant splash:

- Never rub your eyes. If contact lenses are used, they must be removed.
- The eyelids will be kept open and rinsed with plenty of water.
- Then, the victim will be transferred to a specialist doctor (ophthalmologist) or to an emergency service.

In case of skin burn by coolant contact:

- Rinse the affected parts with plenty of tap water and keep applying it while removing the clothes.
- The affected parts should never be covered with clothing, bandages, oil, etc.

## 2. Start-up



## 2.1. First Start-up

The generator location will condition its functioning. For optimum performance, follow these steps:

- Once received, check that there have been no damages in the generator or its components.
- Place the generator in a room with good air renewal and away from heat sources, clearing its intakes to facilitate the air aspiration and expulsion, and avoid air recirculation as much as possible.



To ensure good air circulation around the generator, air inlets and outlets must be clear.

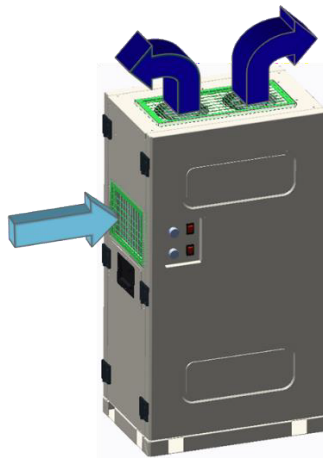


Figure 4: Air flow

- Prior to start up, the generator must remain in vertical position for at least 24 hours.

For the first generator start-up (or after long inactivity periods), it is mandatory to perform a water tank cleaning and complete filling followed by a tank complete emptying thought the Service.

After long periods of inactivity an hyperchlorination must be carried out, as indicated in the section ***Preservation in long periods of inactivity***.

If you have worked inside the generator, check that you do not leave any object inside, that there are no gas leaks and that the hydraulic connections have been carried out properly.

## 2.1.1. Wheels Installation (with the Optional Wheels Adaptation)

If you acquire your GENAQ Cumulus C50 with the optional "wheel adaptation, you will receive the wheels uninstalled to avoid damage during transport.

It is necessary to install the wheels at the bottom of the generator. The installation of the wheels must be done without tip over the generator. Please follow these instructions:

- You need an auxiliary elevation system like a forklift truck or install the wheels before lowering the generator from the pallet.
- Make sure the generator is lift even on both sides to prevent damages.
- Install the brake casters on the front side and screw them.
- Install the swive casters and screw them.
- Remove the pallet.



Figure 5: Wheels installation

In case the forklift is not available, it is necessary move the generator manually at the lateral of the pallet to allow the installation of the back wheels, repeat the process to install the front wheels. For this operation may be necessary more than one person.

Once the wheels are installed, it is recommendable remain the generator in vertical position for several hours before turning it on.

## 2.1.2. UV Lamp Installation

The UV lamp is used to prevent the appearance of microorganisms in the hydraulic system. To do this, water is recirculated from the tank periodically.

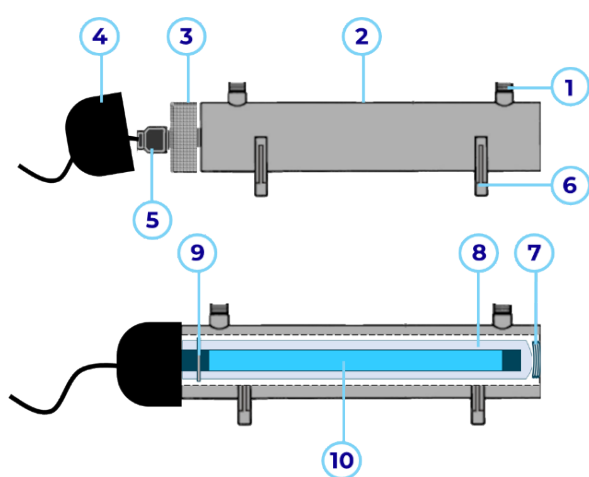


The ultra-violet rays are harmful to skin and eyes.



The UV lamp will beep in the following cases:

- If the UV Lamp is broken
- If the UV Lamp connector is not properly connected



Number	Description
1	Water inlet / outlet connection
2	UV Lamp body
3	Quartz sleeve lock nut
4	PVC cap
5	UV Lamp connector
6	UV Lamp clamp
7	Quartz sleeve clamping spring
8	Quartz sleeve
9	Sealing O-ring
10	UV Lamp

Figure 6: UV breakdown

You will receive your Generator with the UV lamp removed and packaged to avoid damage during transportation, it is necessary to install the Lamp **BEFORE STARTING THE GENERATOR**, make sure you have all the components before starting the assembly.

The assembly instructions are shown in the following sequence:

- Extract the UV Lamp body (2) from the holder and unscrew the Quartz sleeve lock nut (3).

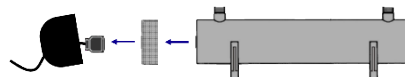


Figure 7: UV Lamp body breakdown

*\* Depending on the model, hydraulic connections are done with quick connectors or with screwed connectors. In the latter case, auxiliary tools may be necessary (like a crosshead screwdriver).*

Make sure that the sealing O-ring (9) is installed in the quartz sleeve. Introduce the quartz sleeve (8) into the UV Lamp body (2). Insert the quartz sleeve keeping the tube completely straight to avoid damage the sleeve, this component is especially fragile.

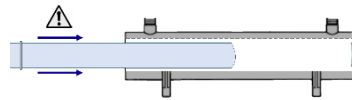


Figure 8: Quartz sleeve installation

- Screw the lock nut (3) to the UV Lamp body (2).



Figure 9: UV lamp lock nut

- Connect the UV Lamp (10) to the connector (5) and insert the lamp into the quartz sleeve (8). The Lamp must be inserted completely straight without damage the quartz tube.

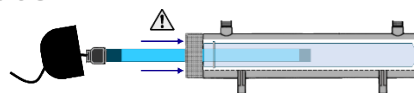


Figure 10: UV lamp installation

- Once all components are properly connected, insert the PVC cap (4) and install the UV lamp into the holder.

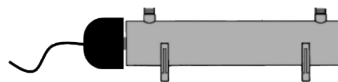


Figure 11: UV lamp

In case the UV lamp stops working, there will be a beep indicating it. In that case, the lamp would need to be replaced.

### 2.1.3. Waste Management

After the generator installation, recycle the packaging and the pallet respecting the environment.

When replacing the generator or any of its components, respect the environment, using an authorized company to remove and recycle, in accordance with the current legislation.

## 2.2. Quick Start Guide

GENAQ Cumulus C50 can be managed entirely from the Control Panel on the front panel. The display has the followings functions and features:










Number	Description
1	Generator ON/OFF
2	SET: Press to view and modify the temperature setpoint
3	Press to show the minimum temperature recorded
4	Press to show the maximum temperature recorded
5	Manual Defrost: Press for 3s to force a defrost ❄️ When the generator starts the defrost, defrost light located on the external side will light
6	Alarm signal (!)
7	Fan ON 🌀
8	Compressor ON ❄️ The compressor light located on the external side will light
9	Input temperature °C

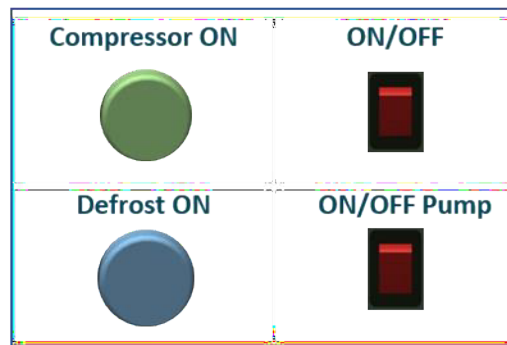
Figure 12: Display

### Basic Functions of Control Command

Using the buttons on the control you can perform the following actions:

Table 2: Control panel actions

Key	Action
	Turn on/off the generator.
	Shows the maximum temperature, in recording and programming mode, increases the value displayed or explores the parameter list.
	Shows the minimum temperature, in recording and programming mode, decreases the value displayed or explores the parameter list.
	View and modify the temperature (by pressing  and  ).
	Lock screen.



Key	Action
Compressor ON	When the Generation is active will shight (compressor active)
Defrost ON	This pilot lights up when the generator starts a defrost (compressor light will be deactivated)
ON/OFF	Generator ON / OFF
ON / OFF Pump	Water service pump - ON to serve - OFF to stop the service

Figure 13: Front panel buttons

### Serve Water

To serve water, it is necessary that lower-level buoy is active. Open the valve “SERVICE” and activate the “pump” switch. Deactivate the switch and close the valve.

# 3. Maintenance

## 3.1. Basic Maintenance

GENAQ Cumulus C50 atmospheric water generator requires:

- **Basic Maintenance**, to be carried out by the user.
- **Professional Maintenance**, to be carried out by a refrigeration professional qualified for this generator.



Any repair, replacement or intervention in the generator by unauthorized personnel will lead to the cancellation of the Warranty.



During maintenance, turn off the power and wear protective gloves to avoid possible cuts.

It is important to follow the Maintenance recommendations with the **frequency** indicated in this Manual

The Basic Maintenance tasks are described below:

### 3.1.1. External Cleaning

To keep your generator free of dust and dirt, wipe the housing surface with a damp cloth. Do not use detergents or solvents.

**Frequency:** Depending on the location.

### 3.1.2. Air Filters

By the generator use, dust and dirt will be deposited on the air filters, hindering the air flow. This requires a periodic filter cleaning and replacement.



It is mandatory disconnect the generator from the power grid before any maintenance task.

#### 3.1.2.1. Air Inlet Filter

- Removing the side panel of the generator by unscrewing 2 Allen screws

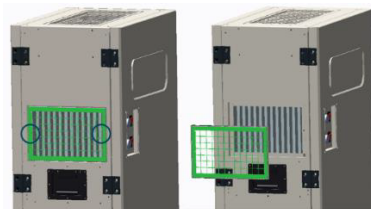


Figure 14: Air inlet access

- Remove the filter and replace it. If spare parts are not available, please contact [support@auqvian.se](mailto:support@auqvian.se).

**Frequency:** Once a year, in dusty environments, the replacement frequency may increase.



### 3.1.2.2. Air Outlet Filter

- Remove the top panel of the filter by unscrewing 2 Allen screws.

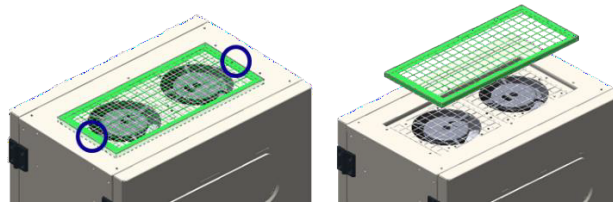


Figure 15: Air outlet access

- Remove the filter and replace it.
- If spare parts are not available, please contact [support@auqvian.se](mailto:support@auqvian.se).

**Frequency:** Replace in case of deterioration.

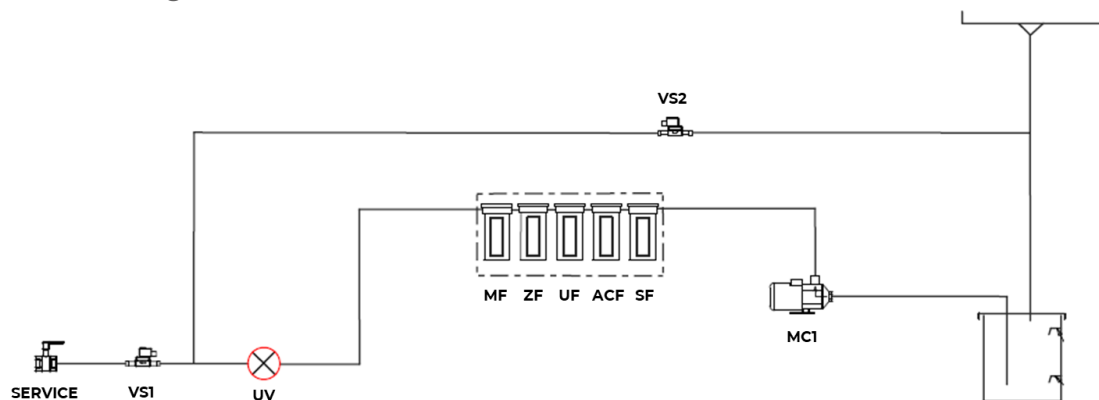
### 3.1.3. Hydraulic Circuit

The hydraulic circuit is composed of several elements that require supervision, cleaning and replacement maintenance:



It is mandatory disconnect the generator from the power grid before any maintenance task.

#### 3.1.3.1. Diagram



Code	Description
VS1, VS2...	Solenoid valve VS1, VS2...
MC1	Water pump
SERVICE	Service valve
UV	UV Lamp
MF	Mineralization filter
ZF	Zeolite filter
UF	Ultrafiltration filter
ACF	Activated Carbon Filter
SF	Sediment filter

Figure 16: Hydraulic circuit

### 3.1.3.2. Leakage Check

Periodically check the absence of leaks in the hydraulic circuit and after any cleaning or replacement operation. To disconnect the pipe, press the ring and pulling the pipe in opposite direction (it is recommendable help with a 10 open-end wrench). To ensure the connection, introduce the pipe completely into the quick connection.

In case of doubts, please contact [support@auqvian.se](mailto:support@auqvian.se).

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**Frequency:** In each maintenance operation.

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### 3.1.3.3. Condensation Tray

The condensation tray cleaning requires removing the access panel as shown below:

- Turn off the generator by pressing the ON/OFF and disconnect it from the power supply.
- Access to the condensation tray by removing the panel.



Figure 17: Condensation tray access panel

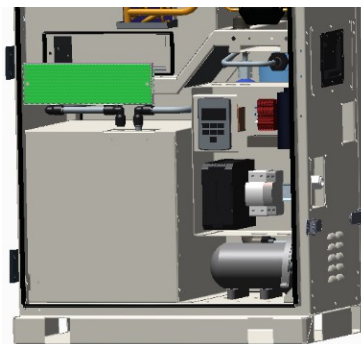


Figure 18: Condensation tray access panel

- Clean the condensation tray with a damp cloth. Do not use solvents, degreasers or other harmful products.
- Close the register and turn on the generator.

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**Frequency:** Depending on the air quality of the place, its frequency is 1 month

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### 3.1.3.4. Water Filters

The water filters are used to trap particles that have got through the main air filters, to avoid microbiological and chemical contamination risk, to avoid any smell or flavor in the water, and to enrich it with minerals.

To replace the filters, please, follow these steps:

- Turn off the generator and disconnect it from the power supply.
- Access into the hydraulic circuit location.

### 3.1.3.4.a. Sediment, Mineralization, Ultrafiltration and Activated Carbon Filters

- Unscrew the filters counterclockwise.



Figure 19: Filters extraction

- Replace the filters with new ones and screw them.
- If you do not have spare parts, please contact [support@auqvian.se](mailto:support@auqvian.se).

### 3.1.3.4.b. Zeolite Filter

- Disconnect the filter from the pipe.



Figure 20: Zeolite filter disconnection

- Unscrew the quick connection to Remove the cap and fill the filter.



Figure 21: Zeolite filter

- Install the filter. Make sure that the O-ring is installed, and the pipes are properly connected to avoid leaks.

### 3.1.3.4.c. Mineralization Filter

- Unscrew the mineralization filter from the quick connections.



Figure 22: Mineralization filter disconnection

- Replace the filter and screw the pipe connection. Make sure that are properly connected to avoid leaks.
- Connect the filters to the pipe.



Please check Possible Anomalies in the ***Troubleshooting*** chapter.

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#### Frequency:

- **Sediments, Ultrafiltration and Activated Carbon filters:** Around one year. In dusty environments, the replacement frequency may increase.
  - **Zeolite filter:** Refill once a year, refill frequency varies as a function of water consumption.
  - **Mineralization filter:** One year, replacement frequency varies as a function of water consumption.
-

### 3.1.3.5. Replacement of the UV lamp

- Extract the UV Lamp body from the holder and unscrew the Quartz sleeve lock nut.

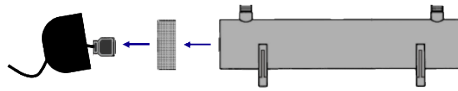


Figure 23: UV Lamp body breakdown

- Make sure that the sealing O-ring is installed in the quartz sleeve. Introduce the quartz sleeve into the UV Lamp body.

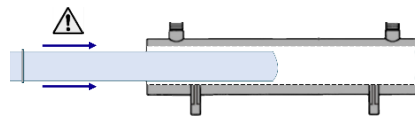


Figure 24: Quartz sleeve installation

- Screw the lock nut, connect the UV Lamp and insert the lamp into the quartz sleeve

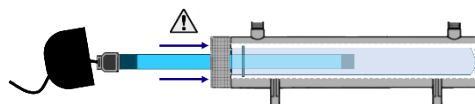


Figure 25: UV lamp installation

If the replacement of the lamp body and / or the brass connections was necessary, please follow these instructions:

- Disconnect the UV Lamp body from the Hydraulic circuit by disconnecting the quick connection.
- Remove the UV Lamp body from the brass connections by unscrew them.
- Screw the new brass 3/8"-female connections (in case they were deteriorated) to the water inlet / outlet.
- To connect the lamp to hydraulic circuit it is necessary to install a 3/8"–10mm quick connection to each brass connection.

Note: In any screwed hydraulic connection, it is especially important to coat the connections with Teflon to ensure the tightness. Please, make sure that these connections are properly tightness to avoid leaks.

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#### Frequency:

- **Cleaning of the Quartz sleeve:** Once a year.
  - **Replacement of Quartz sleeve and the UV lamp:** Around two years.
-

### 3.1.3.6. Water Tank Cleaning

With the use of the generator, the water tank will accumulate sediments. It is important to keep it clean and inspected periodically. To perform a correct maintenance, follow these steps:

- Turn off the generator by pressing the ON/OFF key and disconnect the generator from the grid.
- Disconnect the level buoys connector, unscrew and pulling the two parts in opposite directions.



Figure 26: Level buoys connector

- Disconnect the inlet and the suction pipe from the tank.
- Remove the allen screw that tighten the water tank
- Remove the cover. Clean the tank with a damp cloth. Do not use solvents, degreasers or products harmful to people.
- Once relocated all the elements, turn on the generator.

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**Frequency:** Depending on the air quality of the place, its frequency is 1 month

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### 3.1.4. Preservation During Long Periods of Inactivity

It is **IMPORTANT** to carry out the correct hygiene of the generator if it is going to be more than a week out of operation, as the pipes and filters can be contaminated due to the lack of use. Despite the warranty offered by the generators regarding their hygiene, the pipes' sections between the tank and the dispensing tap can contain microbiological contamination if the generator is not operating.

The manufacturer will not be responsible for any defect, in this sense, if the following procedure is not followed to avoid such contamination:

- Always perform a hyperchlorination of the generator's hydraulic circuit when it has been in a period of inactivity of more than a week.  
For this we will aim for a total chlorine concentration of 7mg/l to eliminate any possible pathogens that may have been developing during the period of inactivity. The table below shows the volume (ml) of sodium hypochlorite to be used depending on the richness of the sodium hypochlorite used.

The total volume of water to be treated corresponds to 12 litres, the capacity of the internal tank.

Table 3: Hyperchlorination

Water amount	Product Concentration	Chlorine
12 liters (full tank)	1%	8.4 ml
12 liters (full tank)	2%	4.2 ml
12 liters (full tank)	3%	2.8 ml
12 liters (full tank)	4%	2.1 ml
12 liters (full tank)	5%	1.7 ml
12 liters (full tank)	6%	1.4 ml
12 liters (full tank)	7%	1.2 ml
12 liters (full tank)	8%	1.05 ml
12 liters (full tank)	9%	0.93 ml
12 liters (full tank)	10%	0.84 ml

- In case the richness of your sodium hypochlorite is different from the one shown in the table above, you can make the calculation using the following equation:

$$V_{NaClO} \text{ (ml)} = \frac{V_{water} \text{ (l)} \times C_{final} \text{ (mg/l)}}{\text{Richness (mg/ml)} \times 10}$$

$$V_{NaClO} = \frac{V_{water} \times C_{final}}{\text{Richness} \times 10}$$

$V_{NaClO}$  = Volume of hypochlorite

$V_{water}$  = Volume of water in the tank

$C_{final}$  = Concentration desired of hypochlorite (7 mg/l is the advisable value for hyperchlorination)

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Richness= % of hypochlorite richness (data available in material safety datasheet)



- After more than one month without use, after the hyperchlorination and empty the tank twice through the service. It is advisable to carry out a tap water analysis according to the local regulation, to detect anomalies in the water treatment, in this case, it is necessary replace it. Check at least the following parameters:
  - Coliform bacteria (E. coli)
  - Aerobia bacteria
  - Ammonia
  - pH
  - Nitrites



For long periods of inactivity, it is advisable to empty the tank, the filters, the UV and empty the pipe (to do this, disconnect the pipe from solenoids valves and the pipe sections before and after the filters).

## 3.2. Professional Maintenance

The **Professional Maintenance** includes all the tasks of the **Basic Maintenance** plus those described in this section which must be carried out by a refrigeration specialized and authorized technician.



Any repair, replacement or intervention on the generator of unauthorized personnel will lead to the cancellation of the warranty.



During maintenance, turn off the power and wear protective gloves and goggles to protect against possible cuts and splashes.

**Frequency:** Annual and in case of any anomaly detected.

Professional Maintenance includes the following tasks:

- The generator metallic parts corrosion control (chassis, bodywork, exchangers, electrical panel, etc).
- Check the air, water and refrigerant isolation circuits.
- In case of an incident, the repair of mechanical parts, refrigeration elements and hydraulic circuit.
- Check the electrical connections.
- In case of an incident, replacement or repair of electrical generator elements.
- Handling of protection elements, control panel, start-up, stop and emergency switches.

In addition to the maintenance tasks recommended above, the generator will be affected by the applicable regulations in this matter.

### 3.2.1. Refrigeration Circuit

Cumulus C50 atmospheric water generator is designed to work with R134A refrigerant. The use of any other refrigerant in this generator is not allowed and invalidates the warranty.

The refrigerant charging and draining will always be done in liquid phase through the Schrader valve located in the liquid line of the generator.

#### 3.2.1.1. Refrigerant Charge and Emptying

Any operation related to loads, drains or replacements of the refrigerant must be carried out by authorized refrigeration professional and never by the user of the generator. The recovery of the refrigerant is mandatory for its subsequent reuse and / or disposal and must be handed over to an authorized waste manager when appropriate.

#### 3.2.1.2. Dehydrator Filter

The filter function is to keep clean and free of moisture the refrigerant circuit neutralizing the acids that can be found therein. Check through the viewfinder indicator of the absence of liquid moisture in the system.

### 3.2.1.3. Oil

Look through the oil viewfinder in order to check the oil level. If there is change of color, check the quality of the oil through a contamination test. In the presence of acid, water or metallic particles, replace the affected oil circuit and the dehydrator filter. If it is necessary to replace the oil, you should use new oil identical to the original one. Both oil type and volume required for each model are listed in tables technical characteristics.

### 3.2.2. **Air Circuit**

If a repair or replacement of the fan is necessary, its access is done by opening the upper plate, as shown in the figure:



Figure 27: Fan access

### 3.2.3. **Control and Electrical Circuit**

Cumulus C50 generator uses DIXELL XW60VS, they have been designed to controller all the functions of this generator.



Figure 28: Control XW60VS

The control includes a small screen that allows the user to display temperatures, compressor operation and fan. It also allows to monitor and change some control parameters.

The electrical panel is composed of electrical safety elements and timer. If an intervention is required, please consult with the manufacturer.

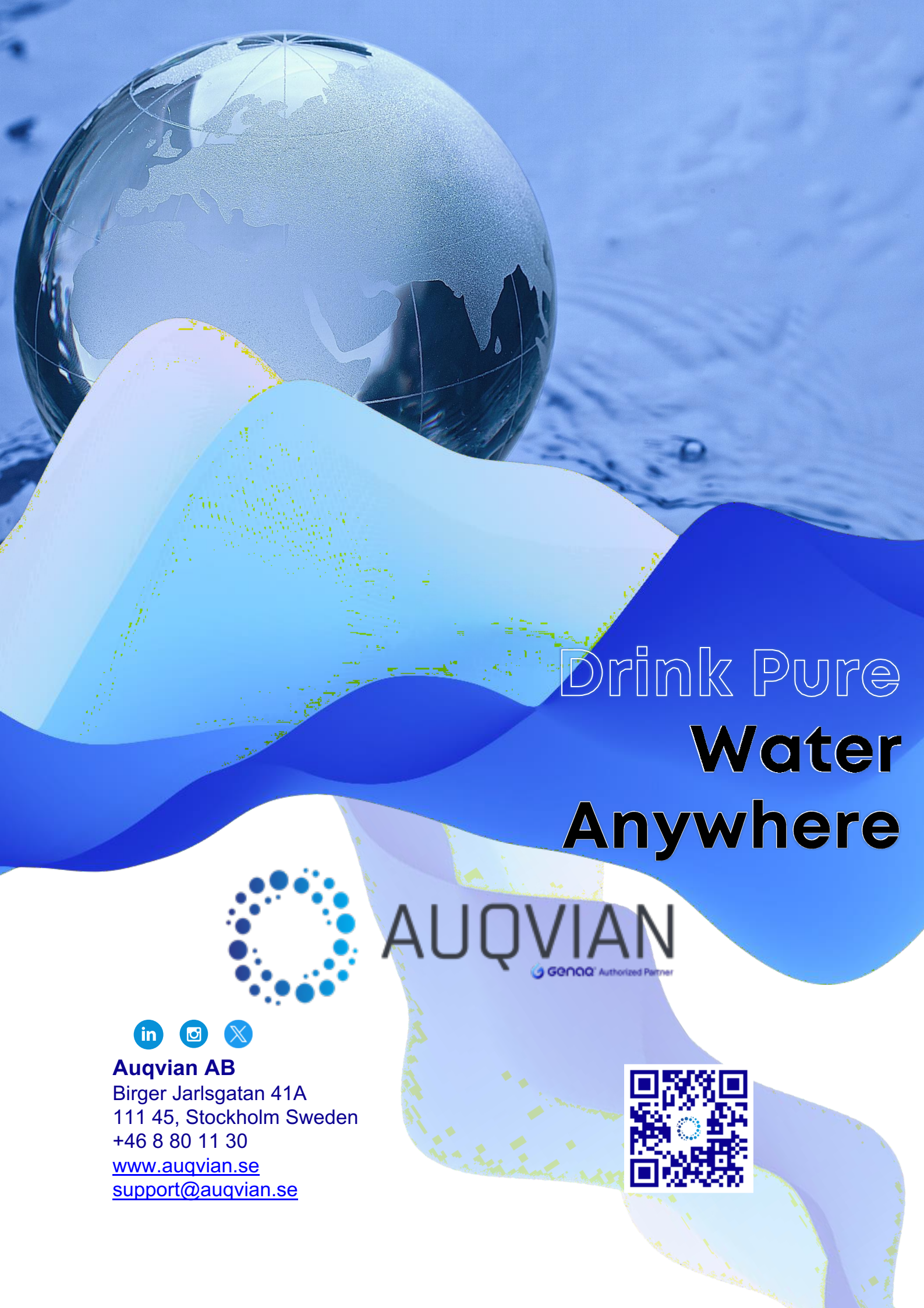
# 4. Troubleshooting

## 4.1. Troubleshooting

If there is a problem with the generator, check the table below and follow these tips. In case you might need additional assistance, please contact [support@auqvian.se](mailto:support@auqvian.se).

Table 4: Troubleshooting tips

Symptom	Cause	Solution
The generator does not turn on	a) Absence of electrical power	a) Check differential, MCB ....
The compressor does not start The compressor pilot is on	a) Absence of electrical power b) Burned contactor coil c) Internal Klixon open d) Inlet Temp lower than set point	a) Check differential, fuses b) Change it c) Wait for rearming, check intensity absorbed
The compressor does not start The compressor pilot flashes	a) The contacts of a control element are open (pressure switches) b) Anti-short cycle timing does not allow start-up	a) Check the safety chain in electronic regulation b) Wait and verify electronic regulation c) Check the continuity of the contact (jumper connection)
The compressor stops a few seconds after starting, the engine sounds intermittently, and opens the internal Klixon	a) Very low network voltage b) Damaged starter kit (check starter relay opening) c) Crammed compressor d) Crashed compressor	a) Check the voltage of the line and locate the voltage drop b) Replace compressor and starter kit c) Check the oil level, and return the oil to the compressor through the suction pipe. If it is necessary to install siphons and resize the pipe. d) Replace the compressor
Repeated stops and starts of the compressor	a) The compressor light flashes b) The compressor pilot remains on. (cut by Klixon) c) Regulating differential too low	a) Check pressures and / or check the safety chain (pressure switches) to find the cause High- or Low-pressure switch cut-out b) Increase the temperature or humidity differential
High pressure switch cut PAL Alarm: Very high condensation pressure	a) Insufficient flow or recirculation of air b) Dirty or clogged air filter c) Fan is damaged d) Dirty or clogged condenser e) High ambient temperature	a) Check air circuits (flow, recirculation, obstructed air outlet) b) Clean c) Repair d) Clean
Evaporator blocked by ice PAL Alarm: Very low evaporation pressure (low pressure switch cut)	a) No evaporator flows b) Cooling fan breakdown c) Continuously frozen Evaporator d) Filter clogging liquid (having different temperature at the inlet and outlet) e) Lack of gas f) Very low-pressure condensation g) Low room temperature	a) Clear air intakes b) Fix it c) Check defrost, defrost parameters change. d) Changing the filter e) Find leak, complete loading f) Air temperature at very low condenser (very high air flow), adjust control parameters condensation or relocating generator
The compressor is noisy	a) Loose Fixation b) Lack of oil c) Default compressor	a) Set b) Add oil up to recommended level c) Change it
Defrosting is not performed	a) Power failure b) Probe out of evaporator coil c) Non-operating module Defrost	a) Check contactor and fuse b) Check reading in Pb2 probe / check location c) Check defrost parameters
EAL Alarm	a) Plate unconfigured to default	a) Check the plate configuration
Null / Sparse production	a) Clogged filters b) Membrane saturated	a) Replace filters b) Replace membrane
Plastic or synthetic flavor	a) Start-up or non-use b) Spent mineralization filter	a) Water filling and complete emptying of the water tank twice b) Replace the mineralization filter
Chlorine taste and smell (with the option chlorine dosing)	a) Spent activated carbon filter	a) Replace activated carbon filter
Unpleasant taste and smell	a) Environmental pollution	a) Replace the filters, the membrane and sanitize the circuit



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