Cabin \ir Nordzone™ System

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User Guide

This product comes in different variants depending on vehicle model. Make sure that the product version matches the vehicle model and consult the service manual of the car if necessary.



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Nordzone[™] System User guide

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Safety instructions

Read these safety instructions carefully and take necessary precautions to reduce the risk of fire, electric shock or injury.



WARNING!

Warning indicates a hazardous situation that could result in death or serious injury.

- Do not use the product if the main power cord or cables are damaged. Contact your retailer for a replacement.
- Keep the product away from heat, liquids, detergents and flammable solvents.
- Do not use the CabinAir app while driving.



CAUTION!

Caution indicates a hazardous situation that could result in minor or moderate injury.

- Always disconnect the power before changing the filter. Only connect power after the Nordzone™ System has been fully installed and the inner lid of the filter compartment is remounted.
- When recirculation of the vehicle is activated, the level of CO_2 may increase and cause driver drowsiness.
- Avoid inhaling the particles from a used filter.
- The particle charging unit has sharp tips that may cause minor injury if not observed.
- Do not alter any parts in any way.
- To avoid electric shock or damage, keep the product away from children.
- This product complies with the maximum allowable concentration of ozone of 0.050 parts per million by volume (ppmv) in a 24-h period.

HIGH VOLTAGE This equipment should be inspected frequently and collected dirt removed from it regularly to prevent excessive accumulation that may result in flash over or a risk of fire. **HAUT TENSION** Cet équipment doit être inspecté fréquemment et la saleté collectée doit être retirée régulièrement pour éviter accumulation excessive pouvant entraîner un flashover ou un risque d'incendie.



IMPORTANT!

Follow these instructions in order to secure product functionality.

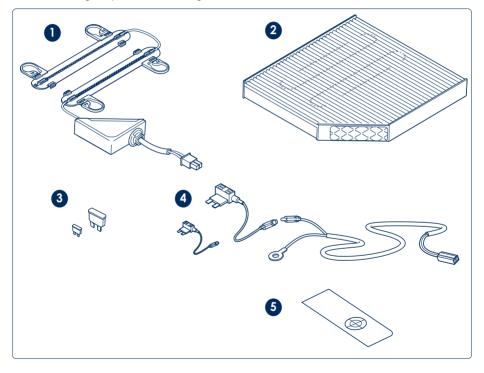
- Professional installation of this product is recommended.
- Use only the items supplied in the box. Do not substitute the Nordzone[™] System original filter with another filter, as this will significantly affect product functionality.
- The product contains high precision technology. Dropping it may cause damage.
- Make sure that the product version matches the vehicle model.
- Make sure to choose a fuse that is only supplying power when ignition is turned on.

DISCLAIMER

- The Nordzone System must be installed and used according to the instructions in this user manual.
- The product warranty only applies if the product is installed according to these instructions and when original parts are used. For more information about warranty visit **www.cabinair.com**.
- CabinAir Sweden AB cannot be held liable for any product or vehicle damage, or personal injuries sustained by the user or others due to faulty installation or usage.

The Nordzone[™] System – box contents

- 1. Particle charging unit
- 2. Nordzone System original filter
- 3. Fuses
- 4. Fuse tap connector/main power cord
- 5. Drilling template used during installation



Healthy air solution from the Nordic forest

Inspired by our origins in the vast Nordic forest region, we bring healthy air to drivers and passengers. Our Nordzone[™] solution upgrades the climate system of your car, keeping the air inside healthy even when driving in dense traffic. Less exposure to airborne allergens and air pollution can ease asthma and allergy symptoms, as well as prevent respiratory problems.

- **Healthier** removes harmful fine dust, pollen, PM_{2.5} and ultrafine particles, smoke and odor. Filters out and deactivates bacteria and virus.
- Safer- no need for recirculation, less risk for CO₂ build up which can cause drowsiness.
- Easier- fully integrated with no loose items so you can focus on driving.
- Smarter Nordzone Air quality monitor (sold separately) visualizes the levels of PM, VOC and CO, inside the cabin. The Nordzone [™] app gives you all the details you need.

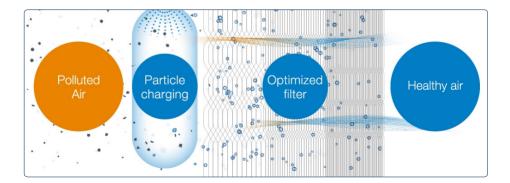


Technology – active air cleaning

The two-stage technology combines the effect of active particle charging technology with optimized filter.

The particle charger actively charges airborne pollutants, making them stick like magnets to the optimized filter, so unlike conventional solutions which rely on just passive filtration, we can trap even smaller particles, such as diesel engine exhaust, viruses and bacteria. Once trapped in the filter, viruses and bacteria is neutralized. All this happen even before the air enters the cabin, which means you don't need to rely on recirculating the air to keep safe from air pollution. The constant flow of fresh and clean air will keep you more alert behind the wheel.

- The particle charging unit charges tiny particles such as PM_{2.5}, harmful gases, bacteria and viruses so they get trapped in the filter.
- The optimized filter captures large particles such as pollen, dust and debris that has a direct, noticeable effect on breathing. The Nordzone[™] System original filter also includes activated carbon which eliminates unpleasant odors.



Installation



IMPORTANT!

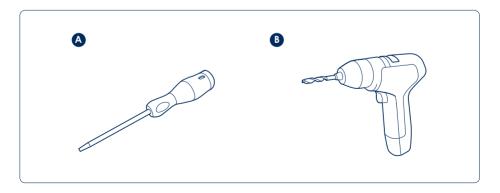
Professional installation of this product is recommended. This guide presents a general installation procedure. Consult the service manual of the car if necessary.

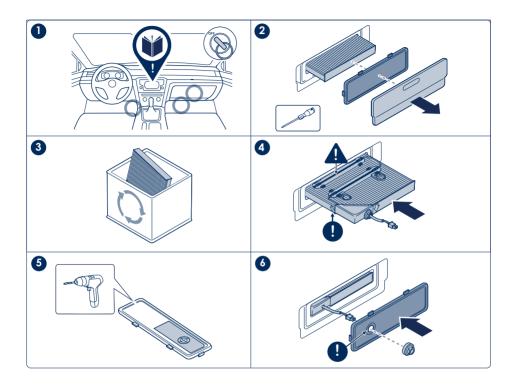
Installing the Nordzone[™] System is similar to replacing a regular cabin air filter. The only difference is that the system is powered from the fuse box. Please note that the location of the fuse box, filter compartment, and how to remove the filter may differ depending on the vehicle model.

Tools

Installation of the Nordzone System might require the following tools:

- A. Screwdriver
- B. Drill





Install the Nordzone[™] System

Follow the steps below to replace a regular filter with the Nordzone System.



CAUTION! Voltage: Turn off the ignition to avoid the risk of electric shock.



IMPORTANT! Matching product version: Make sure that the product version matches the vehicle model.

- 1. Make sure the ignition is turned off. Locate the filter compartment. The location differs depending on vehicle model. Consult the service manual of the car if necessary.
- 2. Remove the cover(s), if any, and the inner lid of the filter compartment. Use the screwdriver if necessary.
- 3. Properly dispose of the used air filter.
- 4. Replace the regular filter with the Nordzone System. CAUTION! The particle charging unit has sharp tips that may cause minor injury if

not observed.

IMPORTANT! Make sure placement is according to the arrows.

- 5. Drill a hole in the inner lid according to the attached drilling template.
- Unscrew the nut on the particle charging unit and pass the cable of the filter through the hole of the lid. Attach the lid and screw the nut back in its position.
 IMPORTANT! Make sure that the newly drilled hole does not have any sharp edges that may damage the cable.

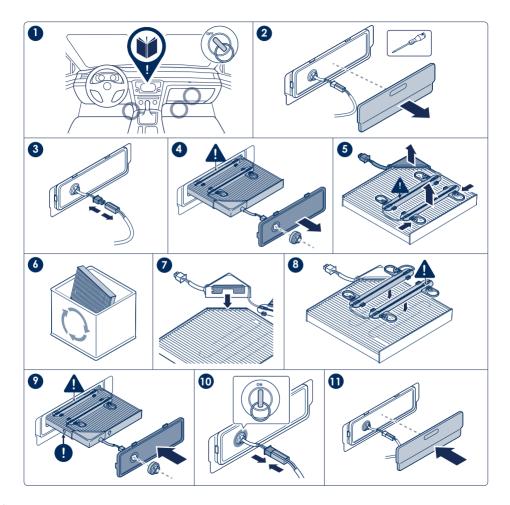


Connect the Nordzone[™] System to the fuse box

1. Locate the fuse box. The location differs depending on vehicle model.

IMPORTANT! The location of fuse box and filter compartment may differ depending on vehicle model. Consult the service manual of the car if necessary.

- 2. Remove the cover(s) of the fuse box.
- 3. Select a fuse location that is only supplying power when the ignition is turned on. Consult the service manual of the car if necessary. Remove the original fuse, if any.
- 4. If the selected fuse location already had a fuse, insert it in the empty slot of the fuse tap connector. If not, use the fuse included in the product box and insert it in the empty slot of the fuse tap connector.
- Insert the fuse tap connector in the selected fuse location.
 IMPORTANT! To avoid the risk of draining the battery, the fuse tap should connect to a fuse that does not supply power when the ignition is turned off.
- 6. Connect the ground connector to the ground screw. Use a screwdriver.
- 7. Connect the fuse tap cable to the red cable in the main power cord.
- 8. Remove the housings between the filter compartment and the fuse box, and route the main power cord between them.
- 9. Connect the main power cord to the Nordzone System in the filter compartment. Check that power is supplied to the product when the ignition is turned on, and that power is cut when the ignition is turned off. The installation is successful if the LED of the product indicates green. If it indicates red or does not light up, see section *Troubleshooting*.
- 10. Remount the housings and cover(s), if any, and make sure that the main power cord is routed neatly.



Replacement of the Nordzone[™] System original filter





IMPORTANT! Matching product version: Make sure that the product version matches the vehicle model.

Product functionality: Use only the Nordzone System original filters to ensure proper function of the Nordzone System, and to qualify for warranty.

- 1. Make sure the ignition is turned off. Locate the filter compartment. The location differs depending on vehicle model.
- 2. Remove the cover(s), unscrew the nut and remove the inner lid.
- 3. Disconnect the main power cord.
- 4. Remove the used Nordzone System from the filter compartment. CAUTION! Avoid inhaling the particles from a used filter.
- Remove the power unit from the corner of the filter. Remove the particle charger unit from the filter by pressing the clips. CAUTION! The particle charger unit has sharp tips that may cause minor injury if not observed.
- 6. Properly dispose of the used air filter.
- 7. Attach the power unit of the particle charger unit to the corner of the new Nordzone System filter.
- 8. Press the particle charger unit onto the pleats of the new filter. Make sure to match the printed outlines on the filter. Check that the unit is completely pressed down. Check that the cables are not damaged and that they are correctly connected.
- 9. Vacuum the filter compartment and insert the Nordzone System. Remount the inner lid. **IMPORTANT! Make sure placement is according to the arrows printed on the filter.**
- 10. Reconnect the main power cord to the Nordzone System filter. The installation is successful if the LED of the product indicates green when ignition is turned on. If it indicates red or does not light up, see section *Troubleshooting*.
- 11. Remount the cover(s), if any.

Maintenance

- For filter replacement procedure and frequency, always follow your vehicle's recommended change intervals.
- Vacuum the filter compartment when replacing parts of the Nordzone™ System.
- Do not allow foreign objects inside the filter compartment while the Nordzone System is installed. This may cause electric shock, damage the product, or affect product functionality.
- Do not repair or adjust any of the parts of the product. Contact your retailer for a replacement.

Support

For information regarding support visit www.cabinair.com.

Warranty

The two (2) years CabinAir limited warranty only applies when the original parts are used and when the product is installed and used according to the instructions of this user manual. For more information visit **cabinair.com**. Warranty provisions may vary from country to country. For details, please refer to the detailed warranty conditions provided by the CabinAir distributor in your country of purchase.

The Nordzone[™] Air quality monitor and Nordzone App – your guide to healthy air

The NordzoneTM Air quality monitor (purchased separately) visualizes the levels of particles and gases inside the cabin. It also alerts you in case of temporarily increased levels of PM, VOC and CO_2 which could temporarily occur in extreme traffic situations like heavy traffic jam, tunnel driving

or overuse of recirculation mode. The design is discrete, and the user interface is easy to understand at a glance, meaning you can focus on the driving.

Together with the NordzoneTM app you get real-time PM_{10} , PM_{25} and PM_1 , CO_2 and VOCs values and can compare in-cabin air quality with outdoor air quality index. The app uses colors to indicate air quality and gives you tips and tricks how to quicker get back to healthy in-cabin air in case of temporarily increased pollutant levels inside the vehicle. For more information, visit **cabinair.com**.

Troubleshooting

Situation	Recommendation
Nordzone™ System unit does not work. LED on particle charger unit does not light up.	 Check that the power source is correctly connected. Check that the fuse is not damaged. If damaged replace fuse.
Nordzone System unit does not work. LED on particle charger unit indicates red light.	 Check that all steps in the installation section have been conducted. Check that the correct Nordzone System original filter is installed. Check that no loose items are blocking the air flow in the filter compartment. If necessary change your Nordzone System original filter. Check service intervals with your dealer. Contact your retailer if the LED continues to indicate red.
LED on particle charger unit lights up when ignition is turned off.	1. Change the position of the fuse tap to one that is only supplying power when ignition is turned on, see section <i>Installation</i> .

Technical specification

	Nordzone™ System	Nordzone™ System original replacement filter*
Connectivity	Bluetooth**	
Operating supply voltage	8-16VDC	
Current consumption	0.1A	
Operating temperature	- 20° to 65° C	
Functional lifetime	80 000 km / 5 years	For replacement frequency, always follow recommended change intervals of your vehicle.
Frequency range	2,402-2,480 GHz	
Output power	-6dBm	
Firmware version	1.0	

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Model Code: NZAQS. FCC ID: 2AXCNNZAQS1STD. IC: 28735-NZAQS

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation

Availability may vary by country.

* micronAir® proTect line with antiviral surface protection by means of a functional filter layer based on fruit extract (active ingredient CAS-Nr. 5949-29-1) for use in air handling / air conditioning systems. Safe bacteriostatic and fungistatic surface protection against a multitude of gram-positive and gram-negative bacteria, yeast and funghi as well as proven antiviral properties (Influenzavirus HIN1 and Coronavirus HCoV 229E) according to ISO 18184.

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www.cabinair.com

Environment protection

Let's protect the environment! Our products are sustainable designed, and all packaging can be recycled. Do not discard filters or any electronic parts with household waste. Please make sure to follow official guidelines and regulations specific to your region for the most accurate and up-to-date waste disposal recommendations.

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