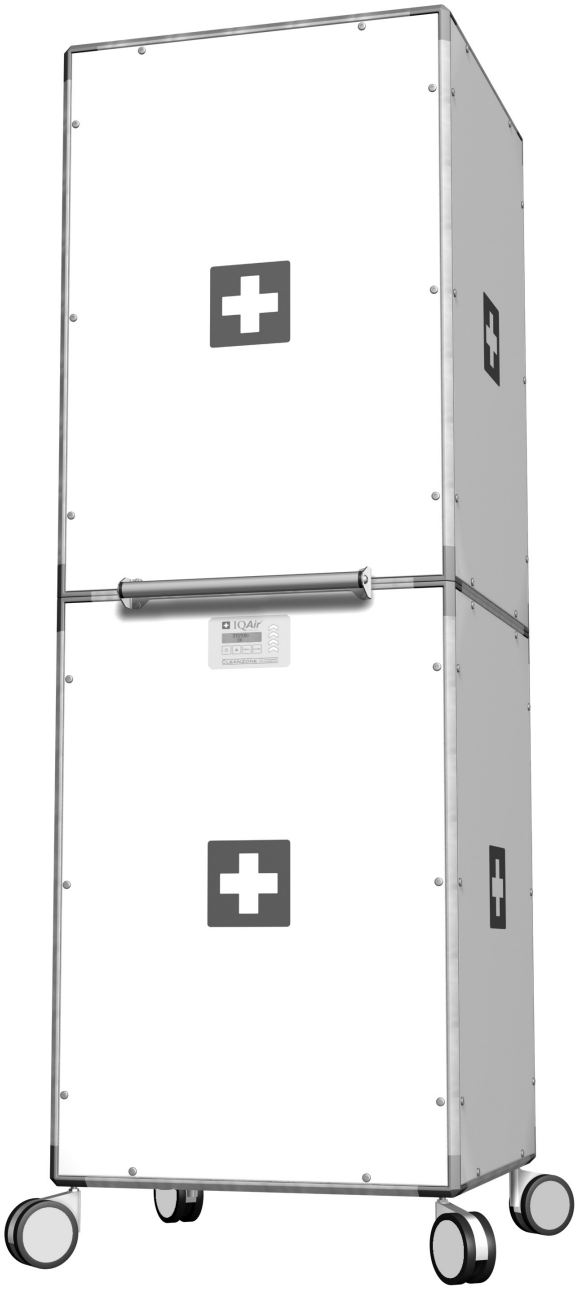
IQAir®

CleanZone® 5000 Series

User Manual



Swiss Made

208.06.01.01_IQ_MA_CZ5000_EN_120430

Read and save these instructions

Safety Precautions

To reduce the risk of fire, electric shock, or injury to person(s) observe the following:

- Installations must be done in accordance with all applicable codes and standards, including fire-rated construction codes and standards.
- The unit is not designed to provide combustion and/or dilution air for fuel-burning appliances.
- Always disconnect the power cord from electrical outlet before replacing filters, adding or removing parts and before cleaning.
- This unit must be grounded. The power supply cord has a grounding plug for your personal safety. It must be plugged into a mating grounding receptacle, grounded in accordance with the national electrical code and local codes and ordinances. Do not remove the ground prong. Do not use an extension cord.
- This unit must be installed in an indoor location, protected from the elements.
- When the ambient temperature for the unit location is below freezing (32°F – 0°C), the unit must run continuously to prevent condensation.
- Do not attempt to recover in any way the exhaust air from a dryer or a range hood. This would cause clogging of the filters and constitute a fire hazard. This will also void the warranty.
- Do not operate this appliance if it has a damaged cord or plug, if the motor fan fails to rotate, if it is not working properly, if it has been dropped or damaged. Contact IQAir for repair or replacement part service.
- Do not run cord under carpeting. Do not cover cord with throw rugs, runners, or similar coverings. Arrange cord away from traffic area and where it will not be tripped over.
- Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer at the address or telephone number listed in this document.
- Do not use this appliance in areas with very high concentrations of dusts or powder to prevent the danger of dust explosions.
- Do not use this appliance in explosive areas.
- Only use original IQAir® filters and accessories. Use of non-IQAir parts or accessories will void the warrantee.
- Keep the power cord away from heated surfaces.
- If the unit is used during construction or renovation, regularly check filters for prematurely clogged filters.
- Save these instructions for future reference.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concering use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- Always wear appropriate protective equipment, such as work gloves, safety goggles for service.

Table of Contents

Chapter 1 – Air Cleaning Systems and Indoor Air Quality

1.1 Improving Indoor Air Quality

Air cleaning can play an important role when it comes to improving indoor air quality. However, it should be noted that air cleaning should be used in conjunction with pollution source control and ventilation, wherever possible.

Strategy to improve indoor air quality
To tackle any indoor air quality problem, keep the following three-step strategy in mind:

1. Eliminate or reduce the air pollution source as much as possible. Source control is by far the most effective way to improve indoor air quality, since it deals with air pollution at the point of origin.

2. Ensure that sufficient fresh air is entering the room from outside. Air cleaners are not a substitution for sufficient ventilation. They are not able to reverse the conversion of oxygen (O_2) into carbon dioxide (CO_2), caused by breathing and combustion processes.

3. Ensure the IQAir® system can clean enough air to cope with the size of the indoor environment. The actual hourly air volume cleaned by the system should be at least double the air volume of the indoor space. If the rate at which pollutants enter the room air is high or the indoor air quality requirements are stringent, the hourly air delivery of the system needs to exceed the room air volume several times. To achieve the appropriate level of air turnover, it may be necessary to employ more than one system.

Air Cleaning Results
Although air cleaners may be advertised and sold to be suitable for use in specific indoor environments and to deal with specific indoor air quality problems, the manufacturer and distributors make no claim as to the specific air cleaning results that are achieved under the user's individual operating conditions. The air quality improvements that can be realized with the IQAir® system (as with any air cleaner) in indoor environments depends to a significant degree on individual circumstances, which are out of the control of the manufacturer or distributors. Important factors which will influence the air quality improvements that can be achieved in an indoor environment with an air cleaner include:

- Type of air pollutants present
- Intensity of the pollutant source(s)
- Pollutant concentration
- Size of the indoor environment
- Operating speed of the unit
- Saturation state of the filters in the air cleaner

Consult a qualified specialist to determine an effective and comprehensive indoor air quality strategy.

Chapter 2 – Model Overview

2.1 Introduction

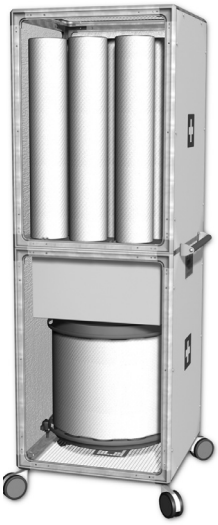
The CleanZone® is a powerful mobile air cleaning system that offers high-volume, high-efficiency performance at minimal noise levels. Three CleanZone® models are available to address specific air purification needs:

CleanZone® 5100
This model offers maximum particle filtration (true HEPA grade).

CleanZone® 5200
This model offers maximum gas phase filtration, while also featuring high-efficiency particle filtration.

CleanZone® 5300
This model offers gas phase filtration in combination with true HEPA grade particle filtration.

CleanZone® 5100



CleanZone® 5200

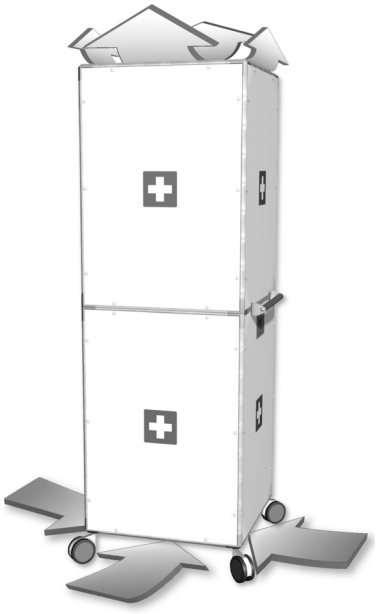
CleanZone® 5300

2.2 How the System Works

In the standard upflow orientation, air is drawn in through the grille end panel at the base of the Fan Module. Air is pre-filtered by the PreMax™ 500 particle filter before passing through the fan and into the Main Filter Module. Depending on the model configuration, the air then passes through:

- CleanZone® 5100: HyperHEPA®700 filter drum,
- CleanZone® 5200: GCXL/S gas filter cartridges followed by post-filter sleeves, or
- CleanZone® 5300: GCX gas filter cartridges and then though a HyperHEPA®300 filter drum.

Clean air is then delivered through the grille end panel at the top of the Main Filter Module.



2.3 Upflow and Downflow Orientation

Irrespective of the chosen model, the direction of airflow through the CleanZone® system can either be upflow (i.e., bottom-to-top), or downflow (i.e., top-to-bottom). A downflow orientation may be desirable for treating pollution that tends to rise, such as tobacco smoke.

upflow

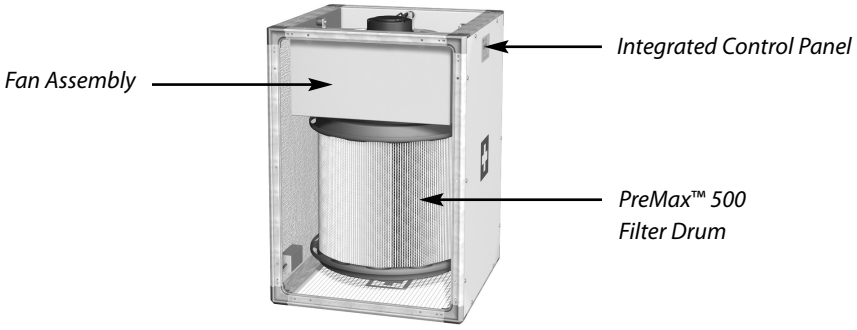
downflow

Chapter 3 – System Components

3.1 Fan Module

The Fan Module is identical for all three models. The Fan Module includes, amongst others, the following components:

- PreMax™ 500 particle filter
- Integrated control circuitry
- Fan in special isolation housing

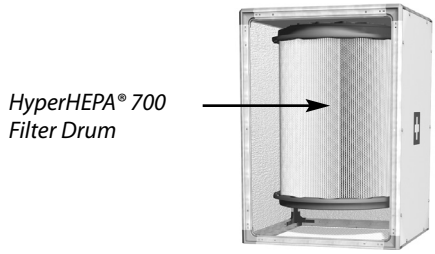


3.2 Main Filter Module

The Main Filter Module distinguishes the three different CleanZone® models from each other:

3.2.1 CleanZone® 5100

This model features the HyperHEPA® 700 filter drum, which focuses on high-efficiency fine-and ultra-fine particle filtration.



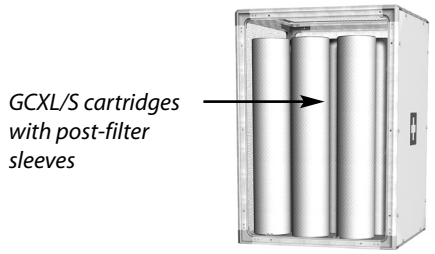
CleanZone® 5100
Main Filter Module

3.2.2 CleanZone® 5200

This model features GCXL/S cartridges (set of 12), which are optimized for gas-phase pollution treatment. The factory fitted post-filter sleeves also offer high-efficiency particle filtration.

A variety of gas cartridges are available for the control of specific gaseous pollutant groups:

- **MultiGas™** – for volatile organic compounds and many inorganic compounds
  Tip: *Best choice for broad-spectrum coverage.*
- **VOC** – for volatile organic compounds, hydrocarbons and solvents
- **ChemiSorber** – for inorganic compounds and some organic compounds (e.g., formaldehyde, sulfur dioxide)
- **AM (ammonia)** – for ammonia and amines
- **AcidPro** – for acids (e.g., hydrogen sulfide, sulfur dioxide, chlorine, sulfuric acid)
- **Hg (mercury)** – for mercury vapors



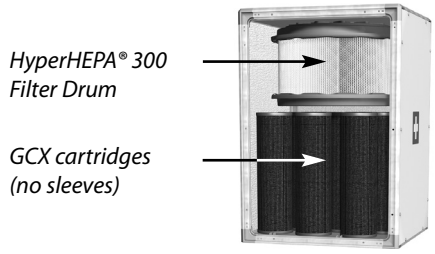
CleanZone® 5200
Main Filter Module

3.2.3 CleanZone® 5300

This model features GCX cartridges (set of 12) plus the HyperHEPA® 300 filter drum, thereby offering a combination of both gas-phase pollution treatment and true HEPA filtration.

A variety of gas cartridges are available for the control of specific gaseous pollutant groups:

- **MultiGas™** – for volatile organic compounds and many inorganic compounds
  Tip: *Best choice for broad-spectrum coverage.*
- **VOC** – for volatile organic compounds, hydrocarbons and solvents
- **ChemiSorber** – for inorganic compounds and some organic compounds (e.g., formaldehyde, sulfur dioxide)
- **AM (ammonia)** – for ammonia and amines



CleanZone® 5300
Main Filter Module

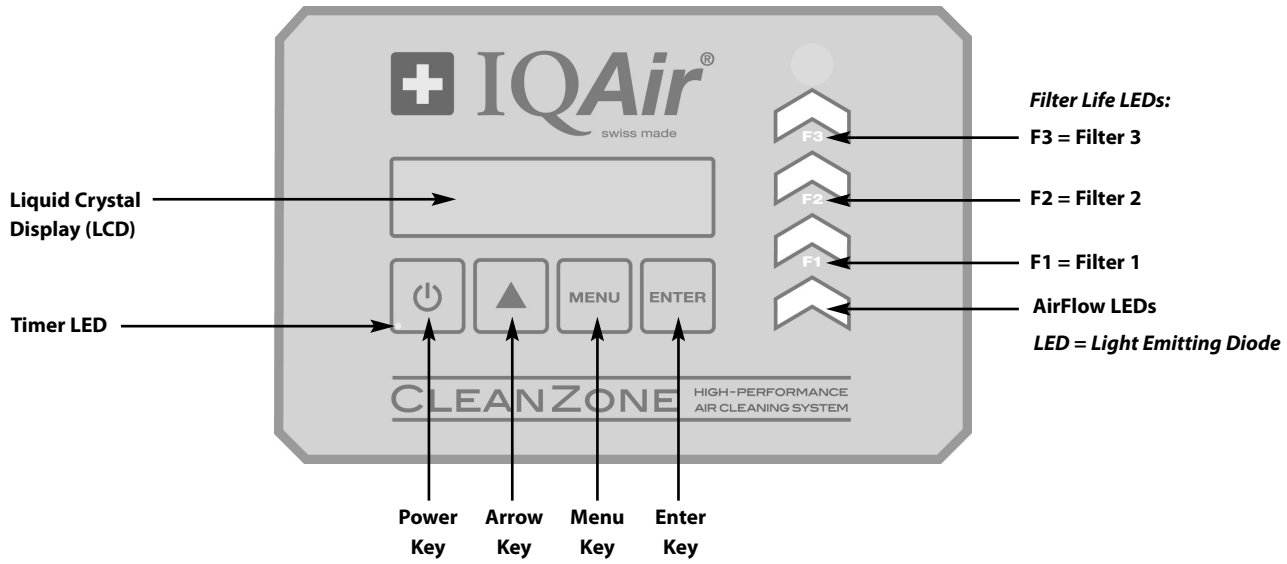
Chapter 4 – Operating Instructions

4.1 Control Panel Functions

The CleanZone® system is operated and controlled via the integrated control panel on the front panel of the Fan Module.

Several operations can be completed via the electronic control panel, including:
- Switching the system on and off
- Controlling the fan speed and corresponding air delivery rate
- Checking the remaining filter life of the individual filters
- Setting the automatic timer
- Resetting the Filter Life Monitor after replacing a filter
- Locking the control panel to avoid tampering with the system's settings
- Choosing the desired display language

4.2 Description of Control Panel Elements



LCD Display: The 2-line LCD displays important information about the system's settings. In standby mode, the first line displays the model. If the timer is activated, the first line will show the current day and time, and the programmed start and stop times will be displayed on the second line.

When the CleanZone® is running, the first line displays the current speed setting and the second line displays the corresponding air delivery rate of the system.

Power Key

The **Power** key switches the CleanZone® system on and off. When the system is switched off, the fan stops running, but the system will remain connected to the power supply (standby mode). The standby mode allows for automatic timer start-up. In the standby mode, the various menu functions can be accessed.
Tip: *In a menu window the* ***Power*** *key also serves as a quick exit key to return to the main display window.*

Arrow (▲) Key

When the system is switched on, the ▲ key allows the adjustment of the fan speed. In the enter mode, indicated by the appearance of a black flashing cursor (see "**Enter** Key" below), the **Arrow** ▲ key is used to modify the selected setting in the display window. Confirmed with the **Enter** key, the enter mode is automatically terminated. The LCD will then display the current menu settings for another 15 seconds before reverting to the main window display.

Menu Key

Menu

The **Menu** key allows access to any one of 13 menus. Pressing the **Menu** key once allows access to the first menu function. Pressing the **Menu** key twice allows access to the second menu function, and so on. If no key is pressed for 15 seconds in a menu window, the display will revert to the main display window.
Tip: *If you are in a menu window and would like to remain in the window for more than 15 seconds, keep the ▲ key depressed.*

Enter Key

Enter

The **Enter** key, if pressed for three seconds, allows the modification of a setting. The enter mode is indicated by a flashing cursor on the modifiable setting. Pressing the **Enter** key again will save any entry and move the cursor to the next modifiable item in the display window. When the last modifiable choice in a window is confirmed with the **Enter** key, the enter mode is automatically terminated and the new settings are saved.

Filter Life LEDs: Whenever the system is on, the color of the filter life light emitting diodes (LEDs) indicates the state of the individual filters in the system.

The filter life indicator LEDs signal four possible stages in the life of the filter:

1. Green: The filter is still within 80% of its estimated life span.

2. Orange: The filter is approaching the last 20% of its estimated life span.

3. Red: The filter has reached the end of its estimated life span.

4. Red blinking: The filter has passed its estimated life span and should be replaced immediately. The CleanZone® system's effectiveness is likely to have been reduced dramatically, either due to a reduction in airflow (particle filters are clogged) or a reduction in filter efficiency (gas phase filters are saturated).

Note: *The remaining filter life information is based on the currently selected fan speed and the programmed pollution level.*

Airflow LEDs: These LEDs indicate that the fan is running: the faster the blinking, the faster the actual fan speed of the unit.

4.3 Regulating Fan Speed

The CleanZone® system can be set to run at 10 different fan speeds, which correspond to 10 different airflow rates. Speed 1 is the lowest, and speed 10 the highest fan speed. To change the fan speed, press the ▲ key. When the CleanZone® system is running, the LCD displays the fan speed and the corresponding airflow rate unless the timer has been set; in which case, the timer settings will be displayed on the second line.

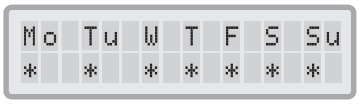
Note: *When switched on using the* ***Power*** *button, the system starts at the fan speed at which it was running when last used.*

4.4 Overview of Menu Items

1. **Filter Life Monitor**
   Indicates the remaining filter life of the individual filter elements within the system. Filters are numbered in the order in which air flows through them. This is a read-only menu.

2. **Daily Timer**
   Activates the timer and sets the daily ON period.

3. **Weekly Timer**
   Indicates the weekdays on which the timer will be active.



4. **Timer ON Speed**
   Sets the fan speed for the Timer ON period.

5. **Timer OFF Speed**
   Sets the fan speed for times outside the Timer ON period.

6. **Time / Day Setup**
   Sets the current time and day.

7. **Installing New Filters (Filter Life Reset)**
   Resets the Filter Life Monitor after replacing a filter element.

8. **Airflow Units**
   Enables the user to choose between metric and imperial units for the airflow display.

9. **Pollution Level Setting**
   Allows the modification of the air pollution setting so the system can calculate the remaining filter life, taking pollution intensity into account.

10. **Language**
    Sets the display language. English is the default language.

11. Model Change

Sets the model configuration of the CleanZone®.
The default control panel configuration is for the CleanZone® 5100.
Note: *CleanZone® 5200 and 5300 models need their control panels to be set to the appropriate model in the Model Change menu.*

12. Operating Hours

Indicates the number of hours the CleanZone® system has been in operation. This is a read-only menu.

13. Service/Installer/Factory Access

Service Access allows users to access the password feature.
Installer Access and Factory Access are for authorized service personnel and factory use only, respectively.

4.5 Menu Items in Detail

The CleanZone® system's control panel offers a choice of several menu options, which allow access to the advanced features of the system. In total there are 13 active menu functions. The functions can be accessed in either standby mode or when the system is running.

4.5.1 Filter Life Monitor

The Filter Life Monitor shows the remaining life of each individual filter at any given time. The Filter Life Monitor watches over the most important factors affecting the life of the individual filters. Thanks to the Filter Life Monitor, the user does not have to guess when filters need to be replaced or replace them at fixed intervals (which rarely correspond to the actual amount of use).

1. To reach the Filter Life Monitor from the main display window, press the **Menu** key once. The remaining life of the PreMax™ 500 (Filter 1) will appear. The remaining filter life is expressed in hours.

2. Press the ▲ key to view the remaining life of the other filters in the system.

Note: *Filters are numbered in the order the air flows through the system. (e.g., the PreMax™ 500 corresponds to "Filter 1")*

Model	Filter 1	Filter 2	Filter 3
CleanZone® 5100	PreMax™ 500 drum	HyperHEPA® 700 drum	
CleanZone® 5200	PreMax™ 500 drum	GCXL/S cartridges	
CleanZone® 5300	PreMax™ 500 drum	GCX cartridges	HyperHEPA® 300 drum

How the Filter Life Monitor Works

The Filter Life Monitor makes a calculation of the remaining filter life, taking into account not only past use of the system, but also likely future use.

Past use is calculated from the already elapsed operation time at the set fan speeds and Pollution Level Indices during that period. This input is compared with an internal memory bank that contains information about the different filters' lives under specific conditions of use.

As reference for future use, the Filter Life Monitor uses the fan speed and the Pollution Level Indices that are currently set. The relationship between the current fan speed, the current Pollution Level Indices, and the remaining filter life displayed can be expressed as follows:

- The higher the current fan speed setting, the shorter the remaining filter life.
- The higher the current Pollution Level Index setting, the shorter the remaining filter life for the affected filter.

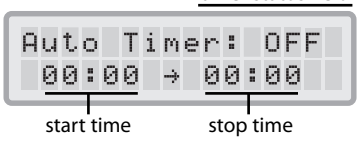
4.5.2 Daily Timer

Note: *the correct time/date needs to be programmed for the timer function to operate correctly.*

The Daily Timer Menu allows the setting of a Timer ON period, which is defined by a start time and a stop time. For the Timer ON period, a fan speed can be selected in the Timer ON Fan Speed menu. The time outside the Timer ON period is defined as the Timer OFF period, for which the air cleaner can be switched off or for which a different fan speed can be selected in the Timer OFF Fan Speed menu.

The timer status field indicates whether the timer function is enabled or disabled and allows the user to quickly enable/disable the timer (e.g., turn it off for holidays).

timer status field



1. To reach the Daily Timer Menu from the main display window, press the **Menu** key twice.

2. Press and hold the **Enter** key until the cursor starts to flash.

3. Press the ▲ key one time to activate the timer.
   Note: *If the START and STOP times are identical, the timer cannot be activated.*
   Note: *The time is displayed in a 24 hrs. clock (e.g., 6:00 pm is 18:00)*

4. Press the **Enter** key to save the timer status setting and to proceed to the START time.

5. Select the desired START hour by pressing the ▲ key.

6. Press the **Enter** key to save the START hour and to proceed to the minute setting.

7. Select the desired START minute setting by pressing the ▲ key.
   Note: *The minute settings can only be set in five minute increments.*

8. Press the **Enter** key to save the minute setting, save the START time and to proceed to the STOP time setting.

9. Select the desired STOP hour by pressing the ▲ key.

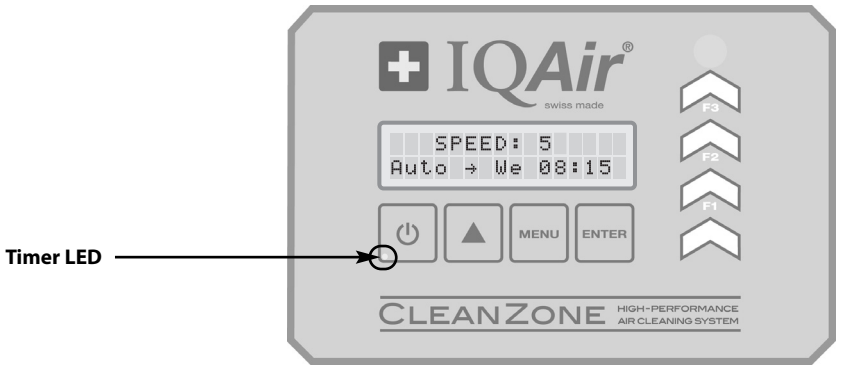
10. Press the **Enter** key to save the STOP hour and to proceed to the minute setting.

11. Select the desired STOP minute setting by pressing the ▲ key.

12. Press the **Enter** key to save the STOP minute setting, save the STOP time and to exit the enter mode.

Timer Information in the Control Panel

The CleanZone® system's control panel displays the timer status without the need to access the Timer menu windows. When the timer is activated, the second line of the display's main window shows the selected start and stop times. In addition, the timer LED will show a green light when the timer is activated. When the timer is not activated, the timer LED will show a red light (in standby mode) or no light (when the CleanZone® is running).

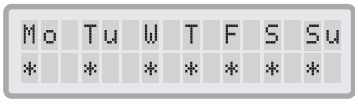


4.5.3 Weekly Timer

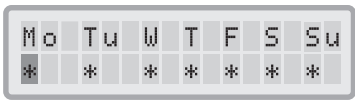
The Weekly Timer allows the activation/deactivation of the Timer ON period on certain days of the week. In its default setting, the timer is enabled on all seven days of the week, and is indicated by asterisks below the abbreviations of the days. On days, without an asterisk, the air cleaner will be running at the speed that is set in the Timer OFF Fan Speed menu.

Note: *At least one day of the week must be enabled with an asterisk to be able to run the Daily Timer. If the timer is disabled on all days of the week, the timer status field in the Daily Timer menu will switch to "OFF" and the timer will be disabled.*

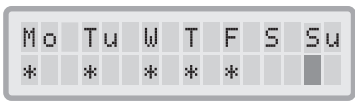
1. To reach the Weekly Timer Menu from the main display window, press the **Menu** key three times.



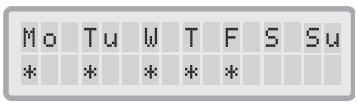
2. Press and hold down the **Enter** key until the cursor appears.



3. Press the ▲ key to activate (asterisk) or deactivate (no asterisk) the Daily Timer on a particular day. Press the **Enter** key to proceed to the next day.



4. Repeat the same procedure until the timer has been activated/de-activated on the desired days. The final **Enter** command exits the enter



4.5.4 Timer ON Speed

The Timer ON/OFF Speed menus allow the programming of two different fan speeds for two different time periods (referred to as Timer ON and Timer OFF periods). For the Timer ON period you can select between fan speeds 1 to 10. For the Timer OFF period you can select between fan speeds 0 (i.e. off) to 10.

1. To reach the Timer ON Fan Speed menu from the main display window, press the **Menu** key four times.

2. Press and hold the **Enter** key until the cursor appears.

3. Press the ▲ key to select the desired speed for the Timer ON period. The default setting is Speed 5.

4. Press the **Enter** key to confirm the chosen speed and to exit the enter mode.

4.5.5 Timer OFF Speed

For the Timer OFF period you can select between fan speeds 0 (i.e. off) to 10.

1. To reach the Timer OFF Fan Speed menu from the main display window, press the **Menu** key five times.

2. Press and hold the **Enter** key until the cursor appears.

3. Press the ▲ key to select the desired speed for the Timer OFF period.

4. Press the **Enter** key to confirm the chosen speed and to exit the enter mode.

4.5.6 Time/Date Setup

When the CleanZone® system is first connected to the power, the day and time displayed will be incorrect and will have to be set for the timer function to work properly. Once the current day and time are set, they will only need to be reset if the unit is disconnected from the power supply for more than an hour.

1. To access the Time/Date Setup menu from the main display window, press the **Menu** key six times.

2. Press and hold the **Enter** key until the cursor starts to flash.

3. Select the hour by pressing the ▲ key.
   Note: *The time is displayed in a 24 hrs. clock (e.g., 6:00 pm is 18:00)*

4. Press the **Enter** key to save the hour setting and to proceed to the minute setting.

5. Select the minutes by pressing the ▲ key.

6. Press the **Enter** key to save the minute setting and to proceed to the day setting.

7. Select the day of the week by pressing the ▲ key.

8. Press the **Enter** key to save the day setting and to exit the enter mode.

9. Press the **Power** key to return to the main display.
   Note: *The display will automatically return to the main window if no key is pressed for 15 seconds.*

4.5.7 Installing New Filters (Filter Life Reset)

The Filter Life Reset function allows the Filter Life Monitor to be reset after a new filter has been installed. As a result, the appropriate filter life LED on the control panel will be reset to green and the hour count in the Filter Life Monitor display will be reset to the full life span of the new filter.

Note: *Resetting the Filter Life Monitor will also cancel the "Replace Filter" warning from the main display window.*

1. To reach the Filter Life Monitor function from the main display window, press the **Menu** key seven times.

2. Press and hold the **Enter** key until the flashing cursor appears.

3. Press the ▲ key to select the filter that has been replaced.

Note: *Filters are numbered in the order the air flows through the system. (e.g., the PreMax™ 500 corresponds to "Filter 1")*

Model	Filter 1 (F1)	Filter 2 (F2)	Filter 3 (F3)
CleanZone® 5100	PreMax™ 500 drum	HyperHEPA® 700 drum	
CleanZone® 5200	PreMax™ 500 drum	GCXL/S cartridges	
CleanZone® 5300	PreMax™ 500 drum	GCX cartridges	HyperHEPA® 300 drum

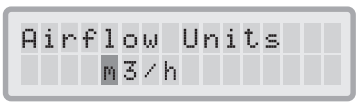
4. Press the **Enter** key to reset the filter life for the selected filter.

5. To safeguard against inadvertently resetting the life of the wrong filter, the selection needs to be reconfirmed. The Filter Life LED for the appropriate filter will also flash red. Press the **Enter** button to confirm the filter change, or the **Menu** button to cancel.

Upon reset of the filter life, the remaining filter life of the new filter will be displayed (based upon the current fan speed and pollution level settings.

4.5.8 Airflow Units

1. To reach the Airflow Units function from the main display window, press the **Menu** key eight times.



2. Press and hold the Enter key for three seconds until the first character of the air volume units starts to flash.

3. Press the ▲ key once to change the units from cubic meters per hour (m^3/h) to cubic feet per minute (cfm), and vice versa.

4. Press the **Enter** key to confirm the air volume unit change. Until modified again, the airflow rate will now be displayed in the newly selected units.

4.5.9 Pollution Level Setting

The Pollution Level Settings are used by the Filter Life Monitor for a more accurate calculation of the remaining filter life. The Pollution Level Indices are based on air pollutant groups that have particular impact on the life of the CleanZone® system's filters. Each setting can be adjusted to reflect the pollution levels in a certain indoor environment.

The Pollution Level menu allows the user to view and modify the Pollution Level settings for:

- Large Dust
- Chemicals
- Fine Dust

Large Dust Index: This index is based on the group of coarse or heavy dust. This dust can contain particles ranging from several millimeters in length down to particles a mere 0.003 mm (3µm) in size. This type of dust will generally settle on top of surfaces within an hour after generation or agitation. It consists of fibers, pollen, spores, dander, coarse dust, etc.

Chemical Index: This index is based on the group of gaseous organic compounds. These are organic chemicals that are present in the air in the form of gas molecules. This group includes solvents, hydrocarbons, such as benzene, formaldehyde, perchlorethylene, styrene, toluene and xylene.
Note: *the CleanZone® 5100 does not have a Chemical Index due to the fact that it does not contain gas filter cartridges.*

Fine Dust Index: This index is based on the group of fine dust particles. This type of dust is smaller than 0.003 mm (3 µm) in size and will remain airborne for long periods of time. This dust group is made up of small combustion particles that are created as the result of combustion processes (e.g., automobile exhaust and diesel soot), small allergen particles such as cat allergens, tobacco smoke particles, etc.
Note: *the CleanZone® 5200 does not utilize the Fine Dust Index since it does not contain a HyperHEPA® filter drum.*

Determining the Pollution Level Setting

The setting for each of the Pollution Level Indices can range from 1 to 9, with 9 being the highest pollution rate. The default setting is 3. The settings from 1 to 5 correspond to "very low," "low," "average," "high," and "very high" pollution levels. The extended settings from 6 to 9 describe extremely high pollution levels, as may be experienced in some commercial or industrial environments.

There are a number of factors that may make a modification of the default settings necessary in order to ensure the most accurate filter life display possible.

Tobacco Smoke

The amount of tobacco smoke in room air can have a significant effect on filter life. If tobacco smoke exposure is regular, the Pollution Level Indices for each pollutant group should be adjusted to 5 or 6, and in extreme cases, even higher.

Presence of Gases and Chemicals

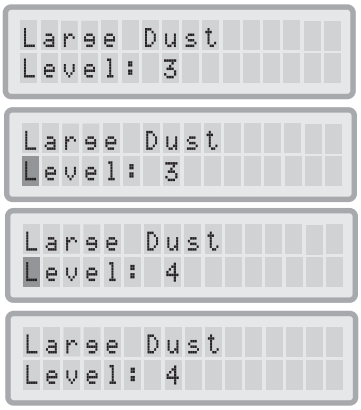
Gases and chemicals may be set free from solvents, paints, varnishes and from vehicle or industrial emissions, as well as pesticides. Such pollutants influence the life of the gas filter cartridges in the CleanZone 5200 and 5300. If there is a high presence of gases and chemicals, it is recommended to increase the Chemical setting to 5 or 6, and in extreme cases, even higher.

Dusty Environments

Environments with a high dust levels are likely to shorten the life of the pre-filter. If there is a frequent high dust content in the environment, set the Large Dust setting to 5 or 6, and in extreme cases, even higher. (Tobacco smoke exposure should not be used for the definition of a "dusty environment").

Modifying the Pollution Level Settings

The Pollution Level menu allows the adjustment of the individual pollution settings to reflect the actual pollution levels in a particular environment more closely. This enables the Filter Life Monitor to perform a more precise calculation of the remaining filter life.



1. Press the **Menu** key nine times to reach the Pollution Level menu, wich will be indicated by the Large Dust Index screen.

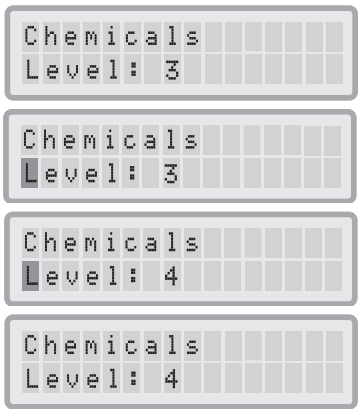
2. Press and hold the **Enter** key until the cursor appears.

3. Press the ▲ key to modify the Large Dust Index setting to reflect the large dust pollution levels found in the environment where the system is used (for guidance, see previous section).

4. Press the **Enter** key to save the Large Dust Index setting.

5. Press the ▲ key to proceed to the Chemical Index.

6. Press and hold the **Enter** key until the cursor appears.



7. Press the ▲ key to modify the Chemical Index setting to reflect the chemical pollution levels found in the environment where the system is used (for guidance, see previous section).

8. Press the **Enter** key to save the Chemical Index setting.

9. Press the ▲ key to preceed to the Fine Dust index.

10. Press and hold the **Enter** key until the cursor appears.

11. Press the ▲ key to modify the Fine Dust Index setting to reflect the fine dust pollution levels found in the environment where the system is used (for guidance, see previous section).

12. Press the **Enter** key to save the Fine Dust index setting.

Limitations of Pollution Level Indices

The concept of Pollution Level Indices allows for a more precise calculation of the remaining filter life than with regular filter life counters. Even so, the determination of Pollution Level Indices inherently assumes some degree of approximation, which results in some variability/uncertainty to the exact filter replacement interval. For this reason, it may become necessary to change filters before the expiry of the indicated filter life, especially if there is a noticeable decrease in filtration performance. In such a case, it may be necessary to increase the appropriate Pollution Level Index settings to reflect the higher actual pollution level that the user is experiencing.

4.5.10 Language

Note: *the choice of languages may vary depending upon the country in which the unit was purchased.*

The Language menu sets the system's display language.

1. To reach the Language Menu Display from the main display window, press the **Menu** key 10 times. The current display language is shown.

2. To change the display language, press and hold the **Enter** key until the cursor starts to flash.

3. Use the ▲ key to scroll through the display language options.

4. Press the **Enter** key to save the display language and to exit the enter mode.

4.5.11 Model Change

The modular design of the CleanZone® system allows the unit to be configured, and later reconfigured, to suit the user's specific application. In addition to the physical changes when switching between model types, it is important to also change the model setting within the control panel.

1. To reach the Model Change menu from the main display window, press the **Menu** key 11 times. The current model configuration is displayed.

2. To change the model configuration, press and hold the Enter key until the cursor starts to flash.

3. Use the ▲ key to choose among the three CleanZone® models (i.e.,CleanZone® 5100, 5200, or 5300).

4. Press the Enter key to save the model setting and to exit the enter mode.

4.5.12 Operating Hours

Because the CleanZone® system is a commercial unit, it may be desirable to keep track of its operating hours to determine usage or to calculate amortization. As such, this function is read only, and cannot be reset by the user.

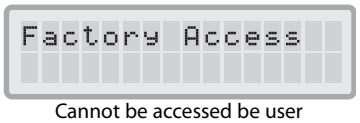
- To reach the Operating Hours menu from the main display window, press the **Menu** key 12 times. The number of hours the CleanZone® has been running since it was first put into operation will be displayed.
  Note: *the Operating Hours will not reset during model changes.*

4.5.13 Service/Installer/Factory Access

Service Access allows users to access the password feature. Installer Access and Factory Access are for authorized service personnel and factory use only, respectively.

Accessible by the user

Upon entry of the correct Service Access password, additional menu items will appear related to the password function, including the ability to change the password, and to restrict access to the control panel via password control.



Cannot be accessed be user
(For Installer and Factory use only)

1. To reach the Service Access menu from the main display window, press the **Menu** key 13 times.

   (Pressing the ▲ key would then cycle through the options of logging in as an Installer or Factory personnel. Users only use Service Access, so this is not necessary.)

2. Press and hold the **Enter** key until "0000" appears on the second line of the display, and the cursor starts to flash.

3. Use the ▲ key to enter the first digit of the password. Pressing the ▲ key advances through numbers and then the alphabet.

4. Press the **Enter** key to set the first digit of the password, and to advance to the next digit.

5. Repeat for all four digits. After entering the last digit, the password will either be rejected or access will be granted.

Note: *the default Service Access password is "1234." It is recommended that users change this immediately, making sure to remember the new password.*

4.5.14 Change a password

Allows the user to set a new password. The password is four digits long, and can be either numbers or letters.

To change the password, first log in via the Service Access, as described above.

1. The Change Password menu will be the first supplementary menu after logging in via Service access.

2. Press and hold the **Enter** key until the cursor begins to flash.

3. Use the ▲ key to enter the first digit of the password. Pressing the ▲ key advances through numbers and then the alphabet.

4. Press the Enter key to set the first digit of the password, and to advance to the next digit.

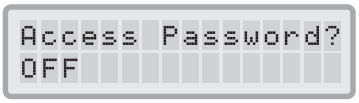
5. Repeat for all four digits. After entering the last digit, press the **Enter** key again to save the setting to exit the enter mode.

Note: *this sets the password for Service Access, which is also used whenever prompted for a password.*

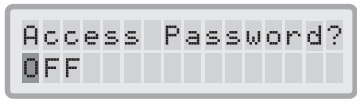
4.5.15 Activate Password Access

When activated, the control panel will prompt for a password before allowing changes to any of the control settings.

The password feature is reached via the Service Access, as described above.



1. Cycle back around through the menu options until the Access Password menu appears.



2. Press and hold the **Enter** key until the cursor begins to flash.

3. Press the ▲ key to either activate or deactivate the password feature.

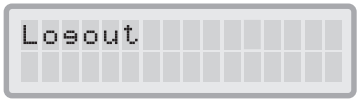
4. Press the **Enter** key again to save the setting and to exit the enter mode. If the password feature was turned on, this will automatically log out of the Service Access, and activate the password feature. Any attempts to change a setting will then prompt the user to first enter the password.

4.5.16 Logout

Manually logs out of Service Access, and closes any access restricted functions. Further access requires the reentry of the password.

It is recommended to log out after completing any changes.

1. The Logout menu is the second supplementary menu after logging in via Service Access.



2. Press and hold the Enter key until the display reads, “Logged out” on the second line of the display.

Note: *If there is no activity for 20 minutes, the system will automatically log out.*

4.6 Access Control

Control of the CleanZone® system can be restricted via two mechanisms: password access (described above), and the control panel lock.

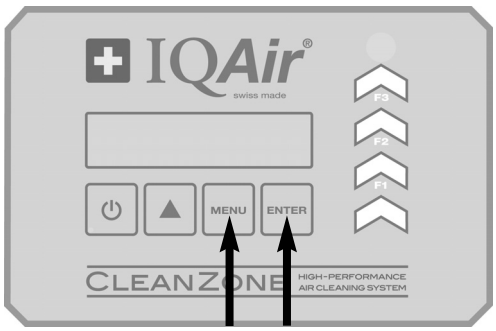
Locking the Control Panel

The control panel's keyboard can be locked to avoid tampering with the settings.

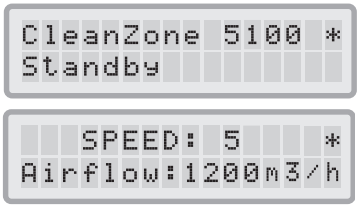
Note: *the remote control will still work, since the keyboard lock only restricts access via the buttons on the control panel.*

Note: *the locking function will be cancelled by disrupting the power supply.*

To lock or unlock the control panel keys, press and hold the **Menu** and **Enter** buttons simultaneously for five seconds. The activated keyboard lock is indicated by an asterisk in the control panel display.



Example of control panel displays when the keyboard is locked:



4.7 Remote Control

In addition to the control panel, some features of the CleanZone® system can be controlled by using the hand-held remote control.

The remote control can be used to perform the following tasks:

- Switch the system on and off
- Select the desired fan speed
- Activate and deactivate the timer function

Note: *start and stop times can only be set and changed directly on the control panel.*

4.7.1 Description of Remote Control Elements and Functions

- **OFF**
  The Off button is used to turn the fan off and put the device into Standby mode.

- **Speed (number pad)**
  To switch the CleanZone® system on with the remote control, press any one of the speed control buttons, which are labeled from 1 to 10.

- **Timer On/Off**
  If start and stop times have been set in the Daily Timer menu, it is possible to switch the timer on and off with the remote control. To switch on the timer, press the Timer button and then the Timer ON button. To switch off the timer, press the Timer button and then the Timer OFF button.

4.7.2 Replacing Batteries in the Remote Control

When the batteries become weak, the transmission results will deteriorate and the the batteries should be replaced. The remote control requires two AAA-size batteries. The battery compartment is located on the back side of the remote control.

To open the battery compartment, press and slide the battery compartment cover. Replace the used batteries with fresh ones.

AAA batteries (set of 2)

Chapter 5 – Replacing the Filters

Note: *the following instructions describe filter replacement for a system assembled in the standard upflow orientation. For downflow orientation, it would simply be inverted.*

5.1 Replacing the PreMax™ 500 Filter Drum

The PreMax™ 500 filter drum is located in the Fan Module.

1. Remove one of the side panels to gain access to the filter.

Tip: *It is preferable to remove one of the side panels without any electrical connections (i.e., without the integrated control panel, and without the power cord).*

2. Remove the used PreMax™ 500 filter drum by rotating it counter-clockwise. This will unlock the filter from the bayonet mount, and allow it to be removed.

Tip: *turn the filter by the handles around the top and bottom edges of the filter drum. This will also help keep the filter from dropping down and damaging the grille end panel.*

3. Write the installation date on the new filter drum's labels as a matter of routine.

4. Position the drum's bayonet mount into the bottom of the fan assembly housing, press firmly upwards, and rotate clockwise to lock in place.

Tip: *The filter label indicates the direction of rotation for locking/ unlocking the filter drum.*

5. Replace the side panel on the Fan Module, and secure with10 panel screws.

6. Reset the Filter Life Monitor. (See Chapter 5.4)

5.2 Replacing the HyperHEPA 700/300 Filter Drum

The HyperHEPA® 700 and 300 filter drums (CleanZone® 5100 and CleanZone® 5300 Models, respectively) are located in the Main Filter Module.

1. Remove one of the side panels to gain access to the filter.

2. Remove the used HyperHEPA® filter drum by rotating it counter-clockwise. This will unlock the filter from the bayonet mount, and allow it to be removed.

Tip: *The filter label indicates the direction of rotation for locking/ unlocking the drum filter.*

Tip: *turn the filter by the handles around the top and bottom edges of the filter drum. This will also help keep the filter from dropping down.*

3. Write the installation date on the filter drum's labels, as a matter of routine.

4. Position the drum's bayonet mount into the drum mounting plate, press firmly upwards and rotate clockwise to lock in place.

5. Replace the side panel on the Main Filter Module, and secure with 10 Panel screws.

6. Reset the Filter Life Monitor. (See Chapter 5.4)

5.3 Replacing the Gas Cartridges (Models 5200 and 5300 only)

The GCXL/S and GCX gas cartridges (CleanZone® 5200 and CleanZone® 5300 models, respectively) are located in the Main Filter Module.

Caution: *the carbon media in the gas filter cartridges may soil clothing and carpeting. Please exercise care when handling cartridges. Disposable gloves are recommended.*

1. Remove one of the side panels to gain access to the filter.

2. Remove the used GCXL/S or GCX cartridges by rotating them counter-clockwise. This will unlock the cartridge from the bayonet mount, and allow it to be removed.

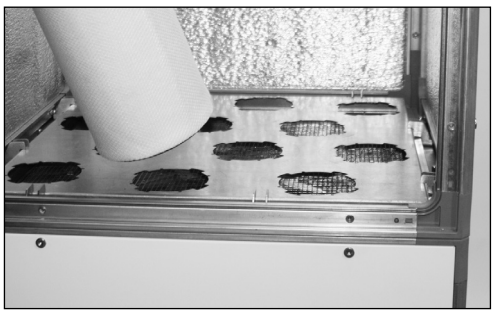
Tip: *turn the cartridge by the handle at the end of the cartridge. Cartridges are filled with gas filtration media, and are heavy.*

3. Unwrap the new gas cartridges, writing the replacement date on each cartridge's label immediately after the bag is opened as a matter of routine.

4. For the GCXL/S cartridges, remove the carbon dust protection sticker covering its bayonet mount. This is to contain any carbon dust that may have settled out during transit. Discard the sticker and any dust that may have accumulated.

5. Insert the cartridge's bayonet mount into the cartridge mounting plate and rotate clockwise until it locks in place. Repeat for all 12 cartridges.

6. Replace the side panel on the Main Filter Module and secure with panel screws.



7. Reset the Filter Life Monitor. (See Chapter 5.4)

5.4 Resetting the Filter Life Monitor

Reset the Filter Life Monitor in the control panel for each filter that was replaced. Filters are numbered in the order the air flows through the system, and vary depending on the model configuration:

Model	Filter 1	Filter 2	Filter 3
CleanZone® 5100	PreMax™ 500 drum	HyperHEPA® 700 drum	
CleanZone® 5200	PreMax™ 500 drum	GCXL/S cartridges	
CleanZone® 5300	PreMax™ 500 drum	GCX cartridges	HyperHEPA® 300 drum

Press the **Menu** button seven (7) times to get to the New Filter setting.

Press and hold the **Enter** key until the cursor flashes, and the lower display line indicates Filter 1. Press the ▲ key to select the filter that was replaced.

Press the **Enter** key, and the display will now ask to confirm the selection. Press the **Enter** key for "yes," or the **Menu** key to cancel the selection.

Repeat for all new filters.

Chapter 6 – Maintenance

6.1 Cleaning the Housing

- Unplug the CleanZone® system before attempting to clean it.
- Use a soft and clean cloth for cleaning.
- For water soluble stains, use a window cleaning fluid.
- For the removal of tough, non water soluble stains, use a silicon spray.
- Do **not** use any solvents or any organic cleaning fluids.

6.2 Maintenance-Free Fan

The CleanZone® system is equipped with a maintenance-free fan motor.

Technical Support

Should technical problems arise during or after the warranty period, please contact your point of purchase. Should no dealer be available, please contact the technical support center for your region. (See back cover of this User Manual)

To expedite your service request, please provide the following information:

- model name, article and serial number (found on the serial label on the rear panel)
- your details (name, address, phone, e-mail)
- place and date of purchase
- description of problem

Ordering Replacement Filters

For all your filter replacement needs, please contact your point of purchase and provide the following information:

- filter type and article number (found on the filter label)
- alternatively, provide the air cleaner model name and the relevant filter code (e.g. "F1") shown on the right side of the control panel, next to the orange or red LED light.

Warranty Information

This air cleaning system is covered by a **two(2) year limited warranty.** If within **two years** from the original purchase by the end-user from the authorised dealer this air cleaning system or any part thereof (with the exception of filters) is proved to be defective by reason only of faulty workmanship or materials, the faulty item, or parts thereof, will be repaired or replaced free of charge for labor and materials. The warranty for replaced parts and service work will expire automatically with the termination of the original system's warranty.

This warranty shall not apply to damage caused by misuse, wear and tear, neglect, unauthorised repair, damage caused by installation, adaptation, modification or use in an improper manner or inconsistent with operating and maintenance instructions, or to wear or deterioration resulting from environmental conditions or to damage sustained during transport. No liability will be accepted under this warranty for any fault or damage arising from defective workmanship, if the unit has been serviced, repaired or modified by any person other than the manufacturer's authorized service personnel or if the system's serial sticker has been removed or tampered with.

No shipping, handling or insurance costs for warranty repairs will be refunded. Obvious defects must be communicated to the authorized dealer within 10 days of the purchase date.

To secure your warranty rights and prevent transport damage, all products must be returned in original packaging. Please keep the original packaging.

Important Note: In the event of a defect occurring, please contact your point of purchase immediately and describe the defect. Before any product is returned for service or repair, please seek the express prior permission from your point of purchase. Your dealer reserves the right to refuse any return shipment which is received without prior permission. Such shipments may be returned at the original sender's cost.

The permission to return products does not constitute an acceptance of liability. Upon receipt, the returned product will be inspected carefully. Should the fault be covered by the terms of this warranty, the product will be repaired free of charge. Should the fault not be covered by the warranty, a repair and transport quote will be issued which needs to be accepted in writing before repair work will be carried out.

Contact Information
For further information on installation and technical issues, please contact the IQAir® technical support center for your region:

North America (USA, Canada, and Mexico):

IQAir® North America, Inc.
Technical Support – Commercial Products
10440 Ontiveros Place
Santa Fe Springs, CA 90670
USA

Tel: 1-888-560-1020
Fax: 1-562-903-7601
www.iqair.com/support

International (except North America):

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Blumenfeldstrasse 15
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