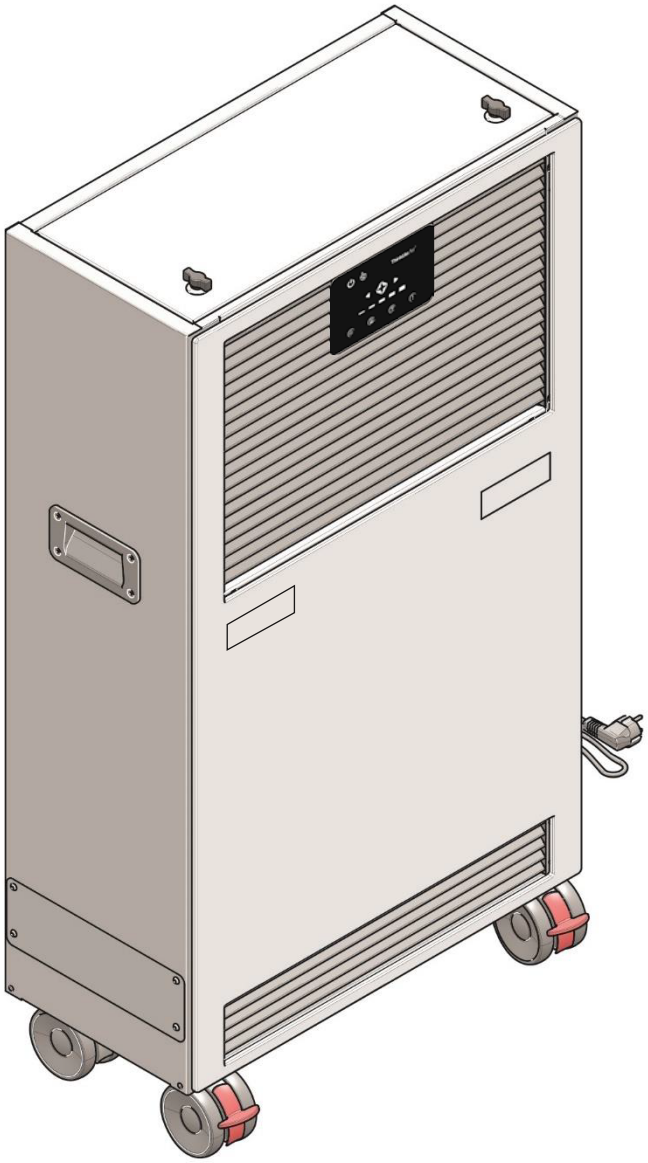
ICon Pro - user manual



TCO Sp. z.o.o.
Tyniecka 126C, 30-376 Krakow, Poland
T: +48 12 268 32 18
E: hello@thecleanair.eu
I: www.iconairhealer.eu

Distributor address and contact data for replacement filters:

Original user manual, written in the English Language

TCO Sp. z o.o.
Tyniecka 126C, 30-376 Krakow, Poland

T: +48 12 268 3218
I: www.iconairhealer.eu
E: hello@thecleanair.eu
E: support@thecleanair.eu

Model: ICon Pro WiFi
Product code: ICON_PRO_2022.01.0001
Date: 28/02/2021
Version: 1.4

Preface

Congratulations, you have just become the owner of the ICon Air Healer with the newest and unique technology in air treatment. Your ICon Pro will improve your indoor air quality in a way no other unit can. This will improve your life standard and safety.
Please read this manual carefully before you start using the ICon Pro. This will help you to enjoy the results ICon Pro delivers, for a long time.

The ICon Pro is easy to use when you follow the instructions. Please read the user manual carefully. Become familiar with the correct operation and maintenance procedures. Store the manual in a safe place. The manual is an essential part of the ICon Pro and must be handed over to the new owner upon resale or exchange. Each ICon Pro has a unique identification number that can be found on the back side of the unit, in the left lower corner. Your TCO partner needs this number when you order parts.

When this manual refers to “the manufacturer” this means: TCO Sp. z o.o. in Kraków, Poland. When this manual mentions “the partner”, your local TCO resell and support service partner is referred to.

Purpose of the user manual

The purpose of the user manual is to provide the user with information during the life of the ICon Pro in such a way that the ICon Pro is used correctly, efficiently and safely, even in the event of reasonably foreseeable misuse.

The user manual contains instructions regarding:

- Personal operator safety
- Intended and non-intended use of the ICon Pro
- Instructions for daily use
- Maintenance instructions
- Storage conditions
- Disposal of the ICon Pro

These instructions must be considered to avoid risks that could lead to physical and/or material damage.

Target audience

This user manual is intended for operators of the ICon Pro and their supervisors, as well as partners and importers.

Operators of the ICon Pro

The ICon Pro may only be operated by a person who:

- has correctly read and understood the instructions in this manual;
- is trained by an experienced operator who has read and understood the instructions in this manual.

Reading guide

The following symbols and terms are used throughout this manual to alert the reader to safety issues and important information:

Symbol	Term	Explanation
	WARNING	Indicates a hazardous situation which, if the safety instructions are not followed, can lead to injuries of the operator or bystanders, light and/or moderate damage to the product or the environment.
	CAUTION	Indicates a hazardous situation which, if the safety instructions are not followed, can lead to light and / or moderate damage to the product or the environment.
	ATTENTION	Indicates a liability situation, where the manufacturer or its partners and affiliates cannot be held accountable for damages caused by non-compliance.

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1 Introduction

The ICon Pro is a safe and easy to use machine. This manual helps you to get started and explains the operation and maintenance procedure. You will be surprised how fast and effective the ICon Pro is in improving the indoor air quality. But remember, NO unit in the world is able to remove 100% of all contaminants from the air. The quality of healed air delivered by ICon Pro is unconquerable.

Indoor air quality refers to the air quality within buildings and structures, focusing on health and comfort of building occupants. In general it is what we experience as the temperature, humidity, good or bad ventilation and concentration of different air contaminants.
It is scientifically proven that the indoor air quality can be five to ten times worse than outdoor air quality, especially with regard to airborne chemicals and microbiological contamination.

There are three main contaminants' groups:

- particulate matter - air suspended particles (commonly known as PM level);
- VOC (volatile organic compounds) - gases emitted from solid or liquid sources, which include a wide range of chemicals, some with short term or long term effect on health and human body;
- (micro) biological contamination - includes bacteria, viruses and molds.

Only by eliminating all three groups of contaminants the air we breathe is safe and healthy. We call it healed air.

The best way to improve your indoor air quality is to:

- reduce the contamination at its's source, for example by reducing the use of chemicals (including cleaning chemicals), using proper filters in vacuum cleaners and reducing cross contamination between rooms and buildings;
- improve ventilation (often a difficult and expensive solution, especially in modern buildings with complex HVAC systems);
- use an air cleaner. The ICon Pro is one of the very few air cleaners that deliver really pure air. We call it healed air, since it is perfectly purified and healthy.

TCO continuously improves all their products based on user experience and feedback. Any deviations between the texts and/ or images from the manual and your ICon Pro can therefore arise from the difference in model or from possible changes due to continuous development and innovation.

1.1 Intended use of the product

The ICon Pro is developed around the unique FS-ACT® technology (USA, Europe and other countries patent protected) which targets all three groups of contaminants, delivering really clean air.

FS-ACT® translates into Full Spectrum Air Cleaning Technology. Our system is the first and only on the market which works truly as a Neutralize &Collect technology. The ICon Pro does not just filter the air. It also neutralizes all living organisms, brakes down and eliminates harmful gases and, before air outlet, collects all particles and what is left from microbes on a high grade filter.

- The ICon Pro is for indoor use only, do not use it outdoors.
- The machine is designed for commercial use in medium to large spaces (up to 250 m^2).
  Of course the actual space coverage will depend on contamination level. In a specific situation with one ICon Pro unit you will be able to heal the air on a smaller space or you may be forced to use two units.

1.2 Non-intended use of the product

WARNING

Non-intended use can have consequences for the safety of operators and bystanders and will void the warranty on the product.

Do not use the ICon Pro:

- outdoors;
- in the proximity of high humidity sources, like indoor air humidifiers, spa area near the indoor fountains;
- in industrial applications with a high dust level since this will limit the efficiency and may damage the unit;
- without the use of a grounded 220V power source;
- with a damaged power cord;
- in areas or rooms with a risk of explosion;
- with clogged air inlet and filters.

1.3 Lifespan

CAUTION

ICon Pro is designed to work almost maintenance free for a long time. You should not need to contact an authorized TCO partner before 2 years of running ICon Pro 24/7. But should error codes happen too often, always do contact your supplier to ensure long and trouble free operations. When run in a 24/7 mode, you will have to replace certain parts , this operation is possible and doable only by your specialized service provider.

1.4 Modifications

It is not permitted to make modifications to the design and construction of the ICon Pro without consultation and written permission from the manufacturer. This affects the warranty, see section 1.6 Warranty, and may be the reason of potentially risky and dangerous situations.

1.5 Specifications

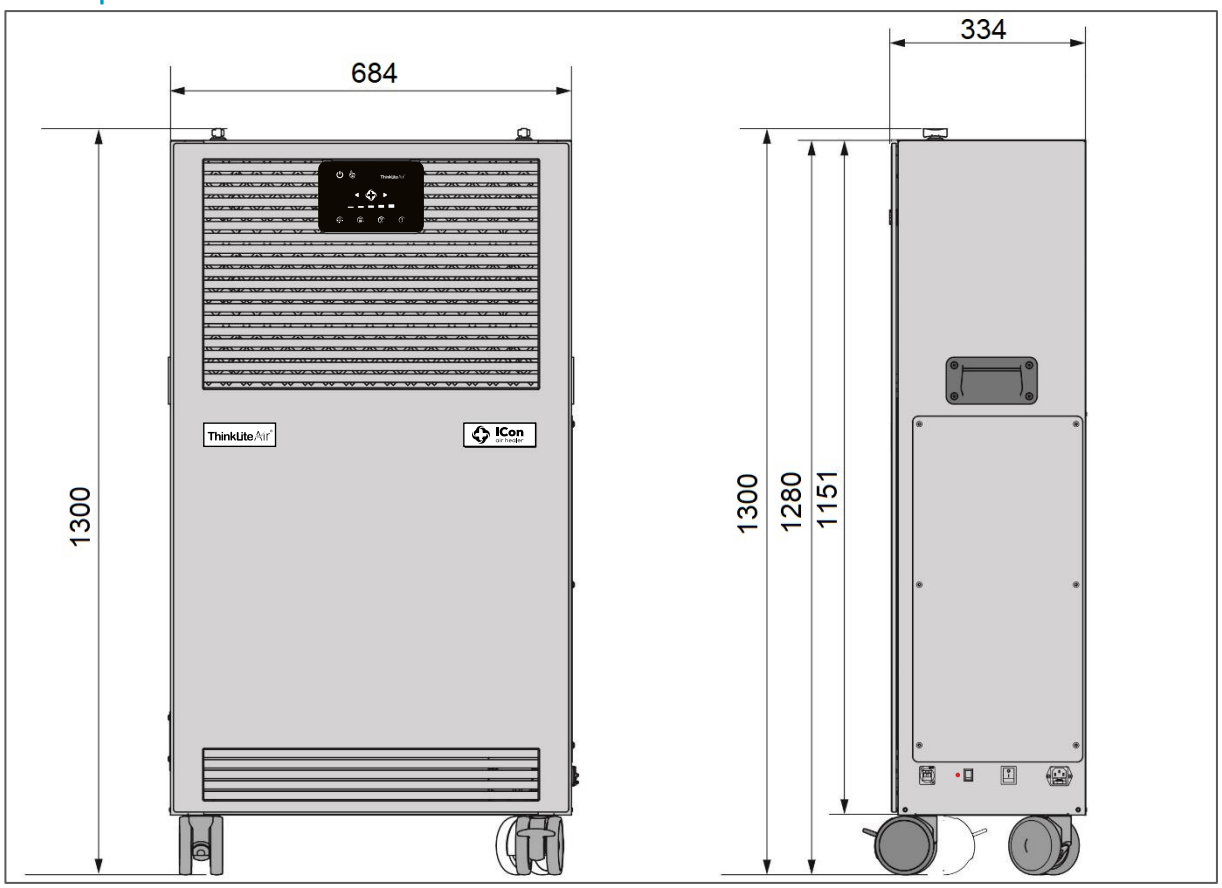


Figure 1

Product (body unit):	1300*684*334 mm
Weight:	74 kg
Control panel on front of unit:	yes, touch screen + App
Transport wheels:	yes

1.6 Warranty

The ICon Pro should only be used with the materials supplied. Using alternative supplies may cause damage to the ICon Pro and may cause a risk to the operator. The use of alternative supplies voids manufacturer's warranty. Standard manufacturers warranty period is 24 months. Warranty conditions you will find on www.iconairhealer.eu/resources.

1.7 Identification

Each ICon Pro has a unique identification number that can be found on the back side of the unit, in the left lower corner. Your TCO partner needs this number when you order parts.

Explanation type plate:

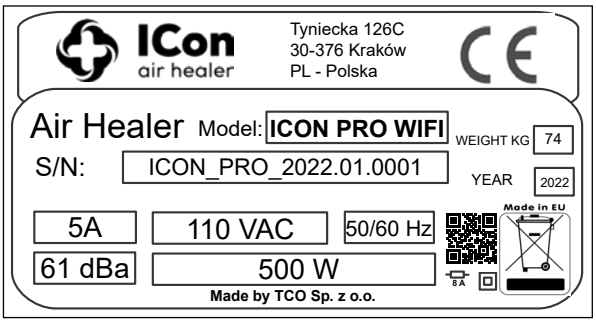


Figure 2

Product type: ICon Pro

Serial number: ICON_PRO_2022.01.0001

Power supply and capacity: AC110V / 500W
Manufacturer: TCO Sp. z o.o.
Country of assembly: Poland

2 Description

The ICon Pro combines state-of-the-art air purifying technologies in one, easy to set up stand-alone unit. The ICon Pro consists of:

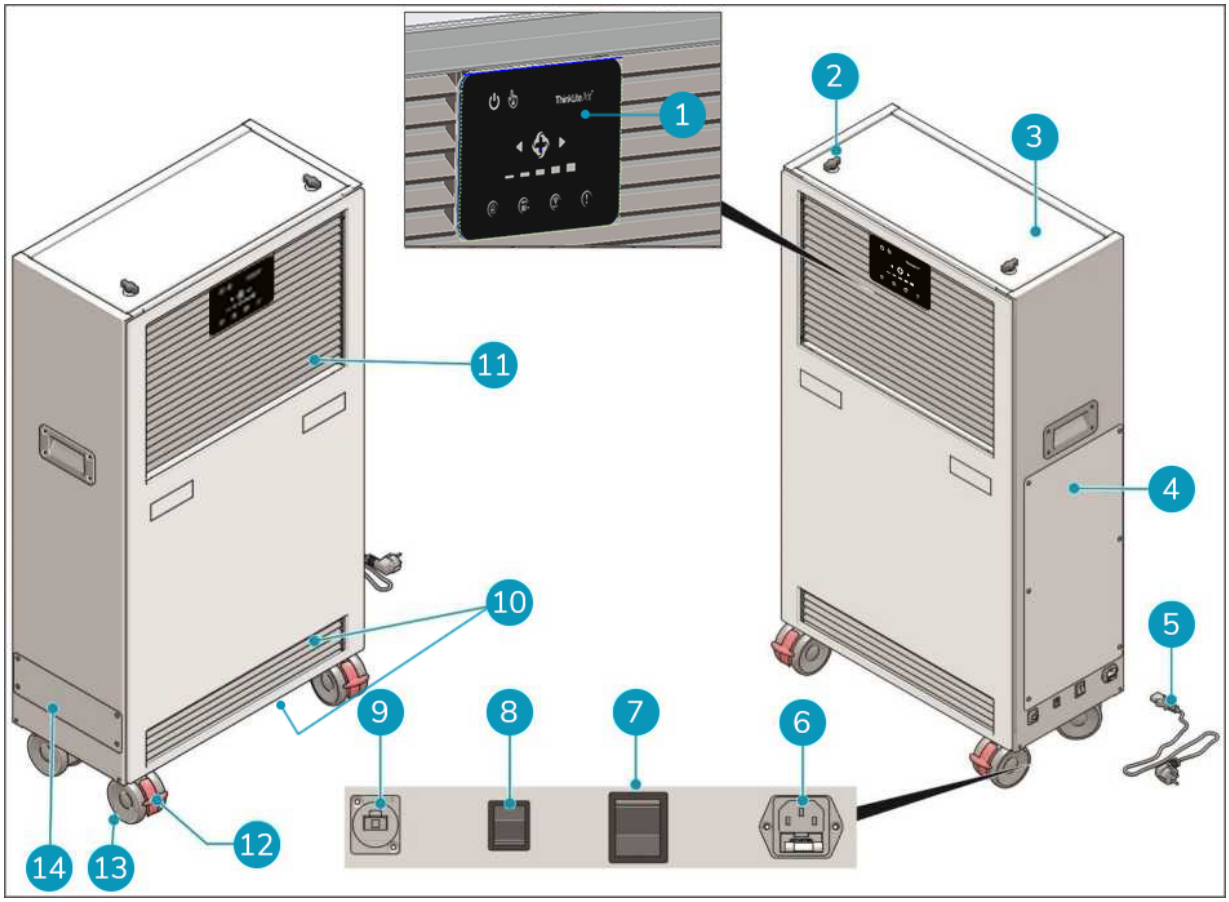


Figure 3

1. Touch screen.
2. Locking knobs of main HEPA filter compartment lid.
3. Main HEPA filter compartment. Attached to the inside of the compartment panel you will find a 2.5 Allen wrench, to be used for opening the panel of the pre-filter compartment.
4. Neutralization chamber panel. (**only to be accessed by qualified service provider**).
5. Power cable.
6. Power cable socket.
7. Main power on/off switch.
8. WiFi on/off switch. .
9. RJ ethernet connection socket.
10. Air inlets.
11. Air outlet.
12. Caster wheels brakes.
13. Caster wheels.
14. Pre-filter compartment.

2.1 Working principle

The polluted air enters the air inlets at the front and bottom of the unit (Figure 4, pos. 5).

The air passes through the custom designed pre-filter (Figure 4, pos. 4). The pre-filter filters out larger particles and heavy dust. The layers of activated carbon in the pre-filter provide basic absorption of volatile organic compounds.

The neutralization chamber (Figure 4, pos. 3) is equipped with complex and sophisticated technology (patented). A combination of UV light and other technologies, takes care of the volatile organic compounds and micro-biological contamination.

The decontaminated air finally passes through a high grade, custom made main HEPA filter (Figure 4, pos. 1). This filter ensures proper filtration of the smallest particles (even smaller than 0,3µ). The clean air leaves the unit through the air outlet (Figure 4, pos. 6) on the front of the ICon Pro unit.

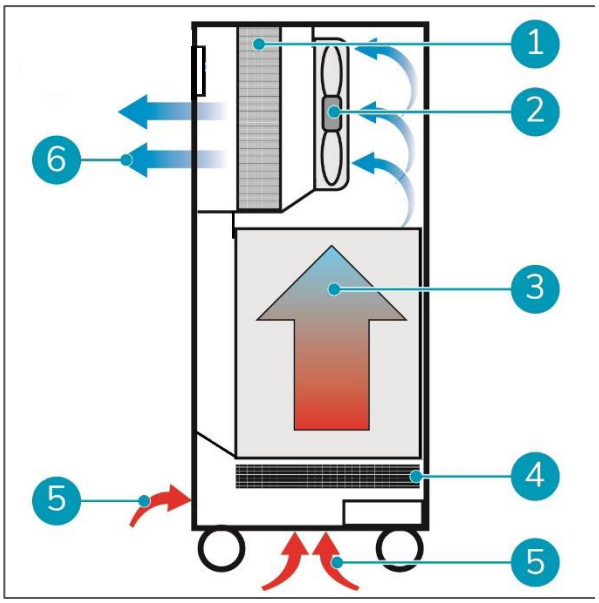


Figure 4

1. HEPA filter.
2. Fan.
3. Neutralizing chamber.
4. Carbon pre-filter.
5. Contaminated air inlets.
6. Healed air outlet.

The ICon Pro is equipped with:

- a 110V power supply unit;
- a powerful air fan;
- safety switches (so called kill switches) on the panels of main HEPA filter and pre-filter compartments;
- RJ socket for ethernet connection (for trained user only).

ATTENTION

It is advisable that the RJ ethernet connection is used by IT advanced users only and/or by trained operators. Ask your ICon Pro authorized supplier for support in setting the web access to ICon Pro.

3 Safety

Safety comes first, therefore please take time to read and understand these safety instructions. Improper use can cause harm or void the manufacturer's warranty.

3.1 General safety instructions

The ICon Pro is an electrical appliance. Please read the safety instructions before use and take the necessary precautions to reduce the risk of fire, electric shock or injury.

- Never perform repairs yourself, always use the professional service of your ICon Pro supplier.
- Do not use ICon Pro when in alarm/error mode. Always consult your supplier before using it again, unless the problem is solved following our Trouble shooting guide on page 30.
- Always use the replacement filters recommended by your ICon Pro supplier.
- Always switch off and unplug the unit before replacing the pre-filter and the main HEPA filter.
- Always follow the instructions in this user manual to ensure long and trouble-free use.

3.2 Machine orientation

Always place the ICon Pro in an upright position. Once correctly placed on location, always lock the brakes on the front and rear caster wheels (Figure 5, pos. 1) when the ICon Pro is in operation.
Push the brake lever down to lock the brake, pull it up to unlock the brake.

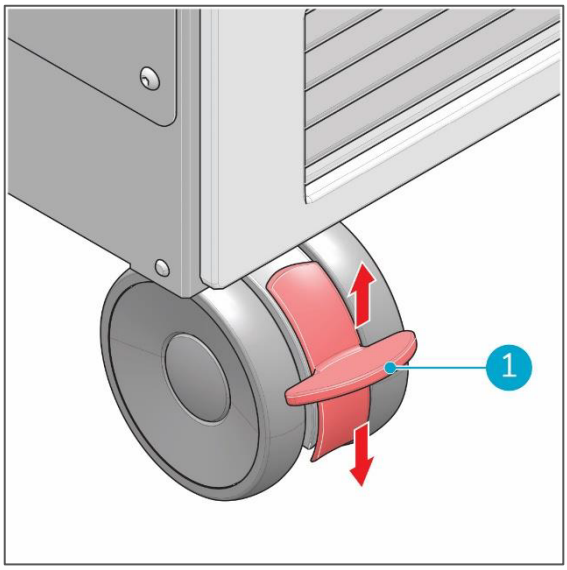


Figure 5

4 Transport and storage

CAUTION

Always keep the body of the ICon Pro in an upright position when moving it.

5 Assembly and installation

The ICon Pro does not require assembly. The pre-filter and main HEPA filter are pre-installed.

CAUTION
The ICon Pro unit is heavy. Do not try to carry and/or move the unit by yourself. You should always use someone's help.

5.1 Unboxing

A newly delivered ICon Pro consists of these items:

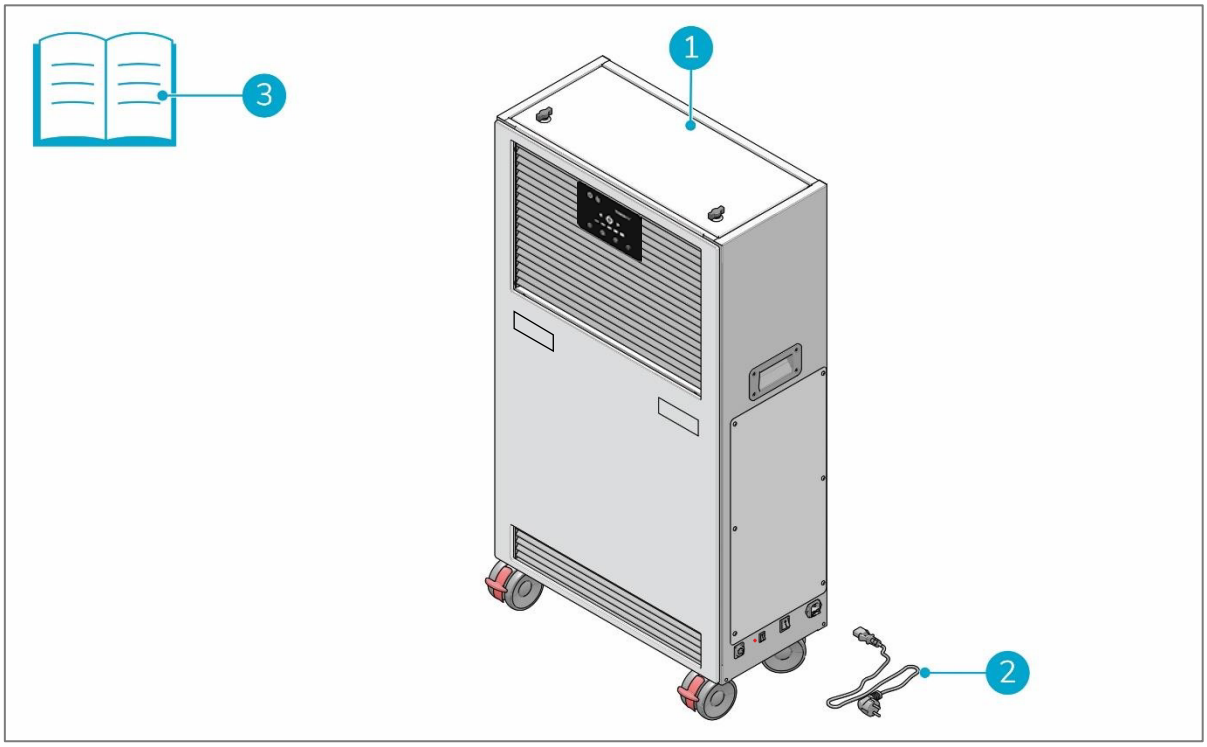


Figure 6

1. 1x ICon Pro unit
2. 1x power cable
3. 1x user manual

We care about our environment! Therefore we use as little non-recyclable packaging materials as possible. Your ICon Pro is protected in the packaging box by honeycomb paper board. After unpacking the unit, dispose of the packaging box and honeycomb paper boards into a paper marked waste bin. Dispose of the plastic bag into a plastic marked waste bin.

5.1.1 Unboxing your ICon Pro

1. Always keep the box in the upright position, according to the labelling on the box.
2. Open the front box flaps (Figure 7, pos. 2 and 6).
   - Inside you will see the honeycomb paper boards protecting your ICon Pro.
3. Remove the front honeycomb paper board.
   - You will see your ICon Pro as shown in Figure 7.
4. Remove the left and right honeycomb paper boards (Figure 7, pos. 3 and 7).
5. Remove the double honeycomb paper board from underneath your ICon Pro (Figure 7, pos. 4).
6. Unlock the caster wheels (Figure 7, pos. 5) and pull your ICon Pro out of the box.
7. Remove the honeycomb paper board on top of your ICon Pro (Figure 7, pos. 1).
8. Remove the plastic bag from your ICon Pro. Your unit is unpacked and ready for use.
9. Check if the power cable and user manual are in the box. If not, immediately inform your supplier.
10. Now, when you plug the power cord into the ICon Pro and the power outlet, the unit will be ready to work.

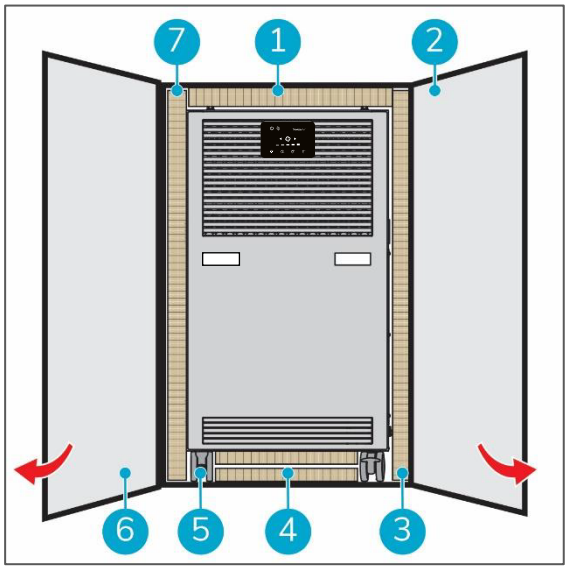


Figure 7

6 Operation

6.1 Before you start

Carefully select the best location for the ICon Pro for the best purifying results. In an environment with heavy polluted air you may consider the use of more than one unit in the same room.
In general you should place the ICon Pro:

- as much in the middle of the room as possible;
- away from heat sources;
- away from humidity sources, like air humidifiers;
- on a solid and level surface;
- on a location where the ICon Pro and its power cable do not form an obstacle.

6.2 Main power on/off

1. Insert the power cable into the power cable socket of the ICon Pro and the power plug into the wall socket (Figure 8, pos. 1).
   - The main power switch is in off position, the red LED indicator in the switch is off.
2. Press the main power switch to turn on the power (Figure 8, pos. 2).
   - The red LED indicator in the switch is lit.
3. Press the main power switch (Figure 8, pos. 2) again to turn off the power.
   - The red LED indicator on the main power switch is off.

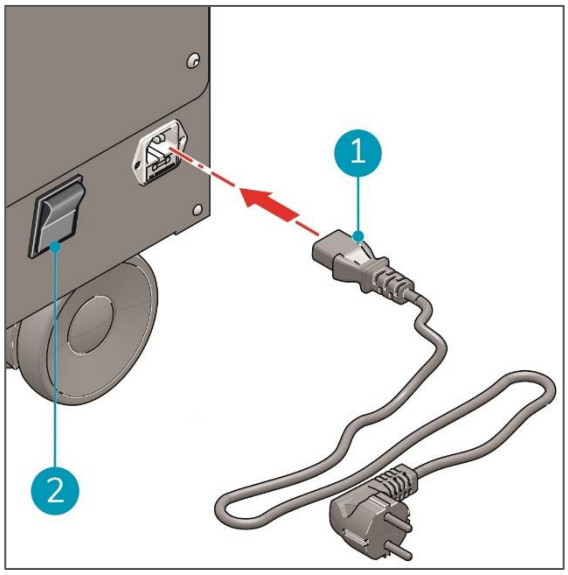


Figure 8

6.3 ECO mode function

ICon Monarch is equipped with ECO mode function. By default, ICon Monarch works on standard, full power mode for neutralization chamber. The ECO mode can be used in spaces where VOC and/or microbiological contamination level is low and user wants to save on energy consumption and extend the lifespan of UV lamps. For example places with high PM contamination level as predominant in indoor air.

It is advisable to use ICon at its full decontamination power, however energy saving mode is available and advisable where possible (go to chapter 6.5). Switching ECO mode On or Off is only possible via the smartphone App or via the Icon Portal.

6.4 Control panel – Touch screen

The control panel on the front of your ICon Monarch unit, lets you adjust the basic ICon operation functions. By touch screen you will be able to turn your unit On or Off and change the speed of the main fan, to set up proper air flow. All the other icons on the screen are just informative, to use more advanced controls you will have to use the advanced ICon App for smartphones or ICon Web Portal. Please go to App Manual.

6.4.1. Active touch icons

The control panel – touch screen consists of three active touch icons and informative icons, with different colours indicating different units status (Figure 9).

ON/OFF switch **(Figure 9, pos. 1)**

Fan speed controls:
Fan speed Down **(Figure 9, pos. 2)**
Fan speed Up **(Figure 9, pos. 3)** of the main fan, to set up proper air flow. All the other icons on the screen are just informative.

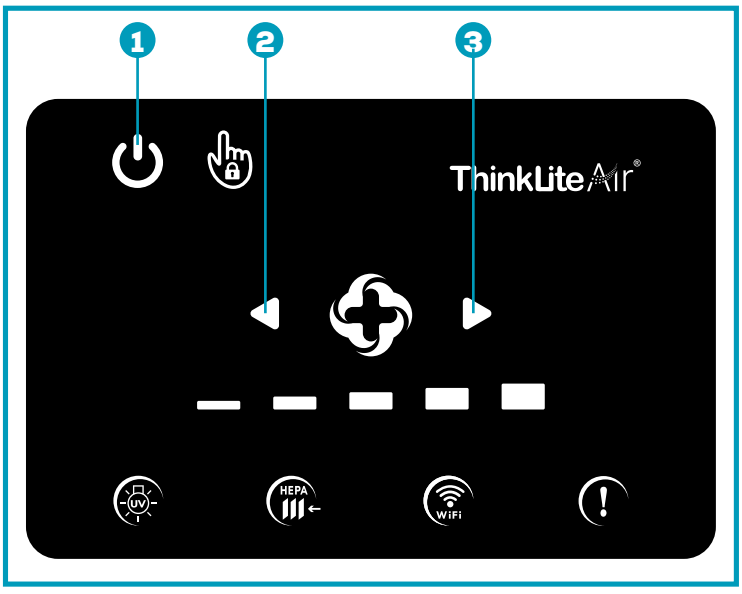


Figure 9

6.4.2. Informative icons on unit touch screen

Pos. 4
ICon Air Healer logo, always ON when unit is ON and/or in standby mode.

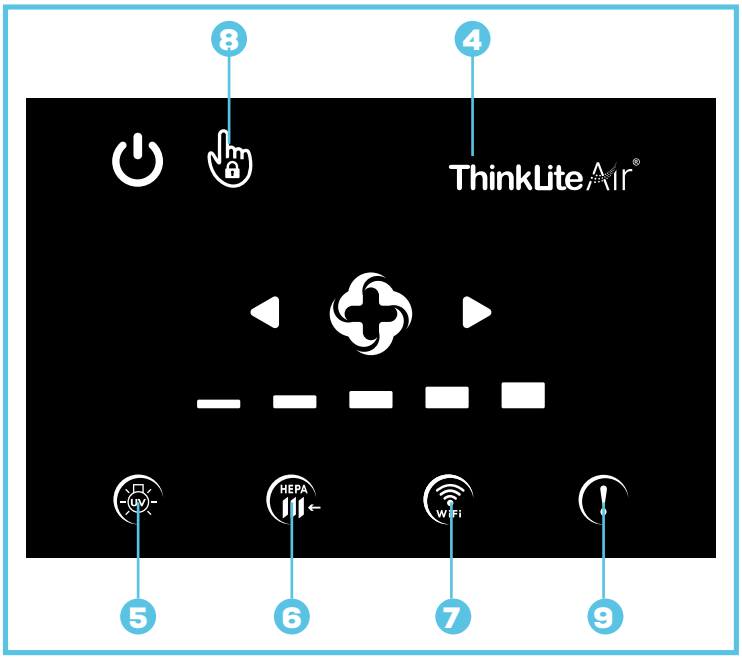


Figure 10

Pos. 5 UV Lamps status indicator:

Lits **Green** when UV lamps are OK and are within a dedicated lifespan time.

Lits **Orange** when UV lamps reached 75% of it's lifespan, but still are 100% functional. Information for the user – please contact your ICon supplier with this information and order UV lamps' set.

Lits **Red**, when UV lamps have reached 100% of it's lifespan, they require immediate replacement, their efficiency is below the optimal.

Pos. 6 HEPA filter status indicator:

Lits **Green** when HEPA filters are OK and are within a dedicated lifespan time

Lits **Orange** when HEPA filters reached 75% of their lifespan, but still are 100% functional. Information for the user – please contact your ICon supplier with this information and order HEPA filters' set.

Lits **Red** when HEAP filters have reached 100% of their lifespan, they require replacement, their efficiency is below the optimal. Please note that your HEPA filters never lose their filtration efficiency, but by getting saturated/clogged, they reduce the air flow so the whole unit efficiency goes down.

Pos. 7 WiFi status indicator:

Lits **Blue** when WiFi connection in your ICon is turned ON and unit has remote connection to Internet and our cloud IoT Hub.

Lits **Green**, when WiFi function is turned on, but your ICon is NOT connected to Internet via the WiFi network.

When you don't see the icon lit, it's slightly Grey, the WiFi on your unit is turned Off, you can't control your unit via the App or Web Portal.

Pos. 8 Touch screen Locked/Unlocked status indicator

When you don't see icon lit, it's slightly Grey, your touch screen is active (Unlocked), you can use the basic controls for ICon Monarch, to turn unit On/Off and change the main fan speed.

When lits **Orange**, your touch screen is Locked, you and no other user, can not use the screen controls, no function is active.

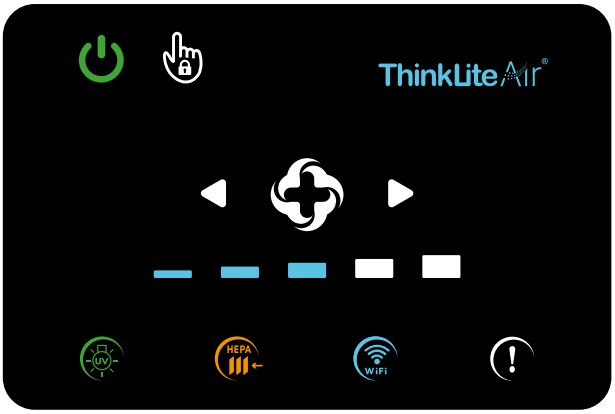
Pos. 9 Error/Alarm icon

Lits **Red** when system detects internal Errors and/or malfunction.

What the informative icons tell about unit status? Here are some combinations, as an example.

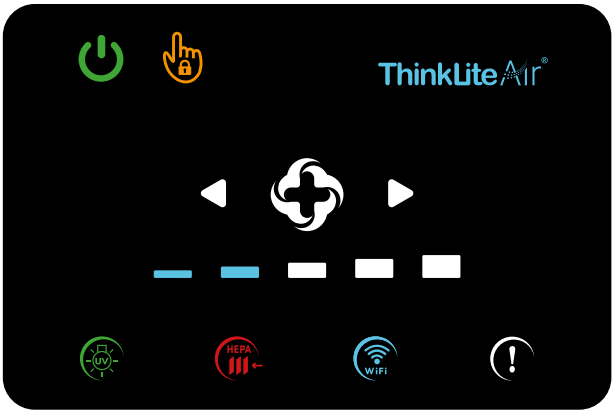
Screen A

- unit is turned ON
- unit works on fan speed level 3
- UV lamps are ok and within a life span
- HEPA filters have reached >75% of their lifespan
- WiFi connectivity is ON
- no Alarms/Errors detected



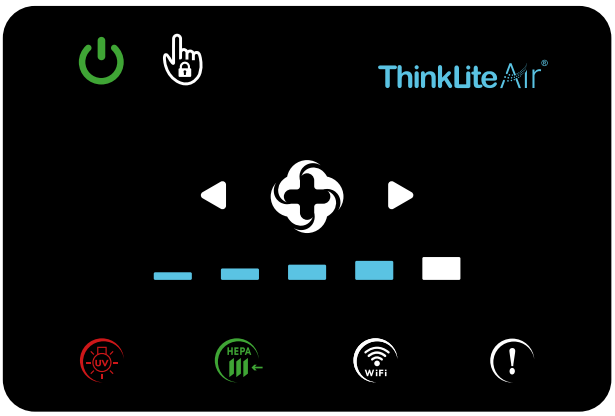
Screen B

- unit is turned ON
- touch screen is locked, inactive
- fan speed set on level 2
- UV lamps are ok and within a life span
- HEPA filters have reached 100% of their lifespan, to be replaced
- WiFi connectivity is ON
- no Alarms/Errors detected



Screen C

- unit is turned ON
- touch screen is active, unlocked
- fan speed set on level 4
- UV lamps have reached 100% of their life span and they need to be replaced immediately
- HEPA filters are ok, withing their lifespan
- WiFi connectivity is turned Off, no Internet connection
- no Alarms/Errors detected



Screen D

- unit is turned ON
- touch screen is locked, inactive
- fan speed level set on 3
- UV lamps reached >75% of their lifespan, prepare to order the lamp set
- HEPA filters have reached >75% of their lifespan
- WiFi connectivity is turned ON
- Alarm/Error indicator is red, system detected technical problem, go to troubleshooting to find a solution and/or contact your ICon service provider

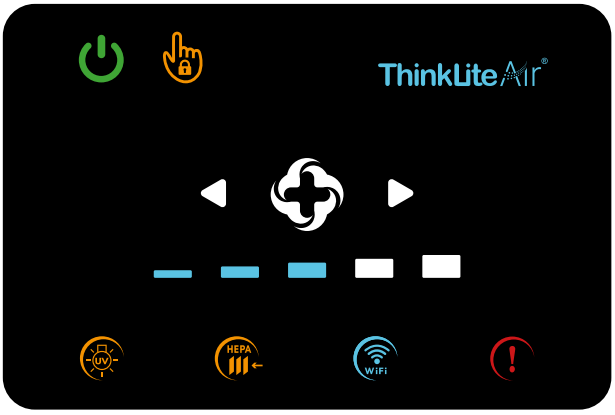
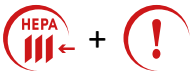


Figure 11

6.4.3. Alarm/Error codes guide

Our ICon has a self-testing system built in, which in case of detected problem will inform the user of occurring problem. Here is the Alarm/Error code explanation guide and how to react.

Alarm code displayed	Code explained	How to react
	Time&Date Error or Other malfunction detected.	Please go to advanced settings and set Time&Date. If Error code stays after that, please contact your service provider.
+ beep sound	PreFilter drawer is open or prefilter not installed.	Close the prrfilter drawer and/or install prefilter.
	HEPA filters not installed and/or not installed properly.	Insert the main HEPA filters properly, following the Manual.
	UV lamp malfunction. Neutralisation chamber does not work properly.	Contact your ICon service provider.
	The main unit Fan malfunction, fan does not work properly.	Turn the unit Off and then back On. Problem not solved – contact your service provider.
	HEPA filters have reached their 75% of the lifespan.	Contact your ICon supplier, order new HEPA filter set.
	UV lamps have reached 75% of their life span.	Contact your ICon supplier, prepare for lamps replacement.
	HEPA filters have reached 100% of their lifespan.	Replace the HEPA filter, install the new one.
	UV lamps have reached 100% of their life span, need to be replaced.	Contact your service provider and replace the UV lamp set. Do Not replace the lamps by yourself.

6.5 Advanced ICon control functions

Your ICon is equipped with advanced control function to let you better use it, according to your personal needs. All these advanced function are available via the ICon App (iOS and Android versions available). For App ICon management you will have to connect your ICon to available in your building WiFi network or connect to Internet via Ethernet.

In case you don't have any WiFi network available, or for any reason you can't connect ICon to WiFi, for example security reasons you may connect your ICon to Internet via LAN connection. For single unit management we have implemented smart functions to let you manage your Icon via Access Point, by connecting ICon to your smartphone.

Enterprise users, with more than 10 units, will have a dedicated ICon web portal available to manage all their Icons.

Advanced functions available for your ICon:

1. Management via AP (Access Point) Lan or WiFi to use smartphone App or dedicated Web Portal
2. Connecting your ICon to your personal account, for full control
3. Management up to 10 units – via the ICon App or unlimited units via the WebPortal
4. You may assign name and location to each and every ICon you have
5. Change ICon control from Manual to Automatic
6. Full control of current ICon status and it's components: like HEPA filter and UVC lamp set usage (in % of a life span)
7. You may switch On or Off the ECO function
8. You may lock/unlock the Touch screen, to prevent unauthorised persons to change settings
9. You may set the weekly working schedule for every Icon unit. Weekly schedule is possible different for each day, for working days and weekend and/or the same for all 7 days in a week.
10. You will have an overview on main errors and tips how to react
11. You will have easy access to service support
12. More functions to come in a near future while we are developing

6.5.1 ICon control without WiFi connection, via the Access Point

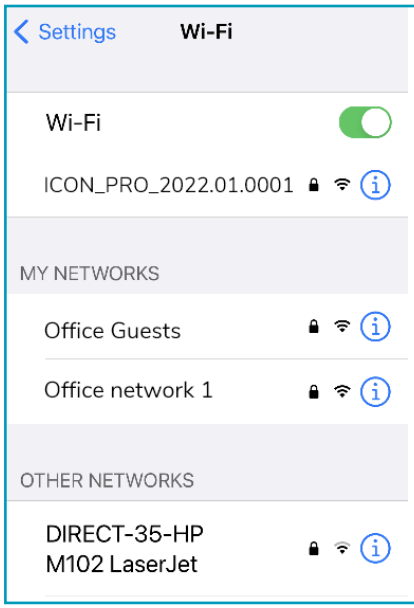
In case there is no WiFi network available in your building or for any reason, like security, you are not allowed to connect ICon to WiFi or LAN network, we still provide means to manage your ICon and use its all advanced functions.

In such case you will use so called Access Point connection, provided by your ICon. To use that control protocol, follow the guidelines and have your smartphone ready.

1. Connecting via the AP (Access Point) Step 1

To connect via AP, go to your smartphone Settings, then WiFi connection and activate it.

2. Connecting via the AP, step 2



Open available networks and find your ICon. Your ICon will apprear like that:
ICON_PRO_2022.01.0001
Specific ID of your ICon you will find on a sticker, applied to your ICON.

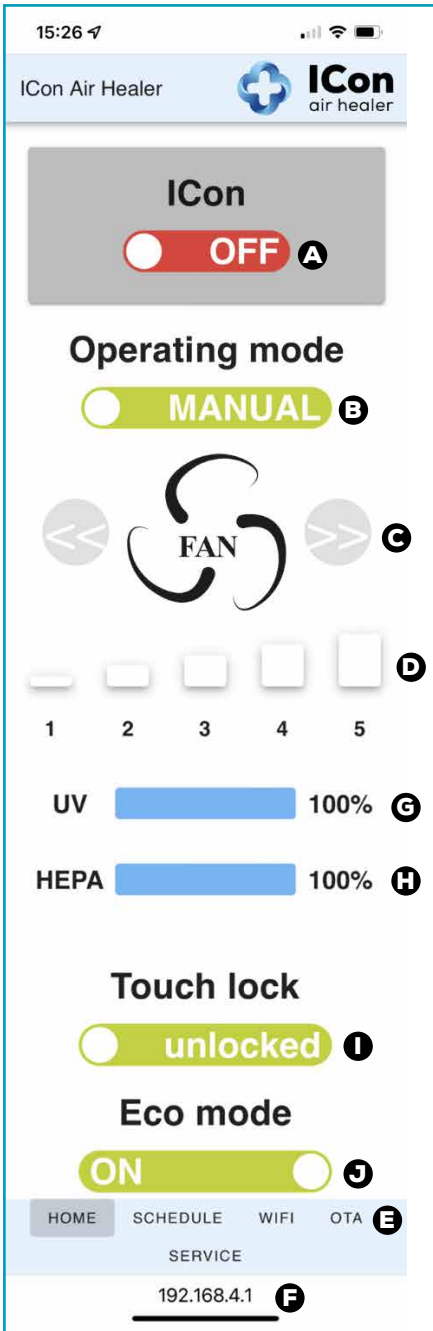
3. Connecting via the AP, step 3

Once you have selected your ICon and your smartphone gets connected, you will have to enter the Password **ICON126C#30376**, also provided on a sticker as in p. 2. Enter supplied Password and connect to AP.

4. Entering the control functions

Once your smartphone is connected via the AP with your ICon, you are able to use ICon advanced controls. To do that, switch to your web browser, for example Safari.

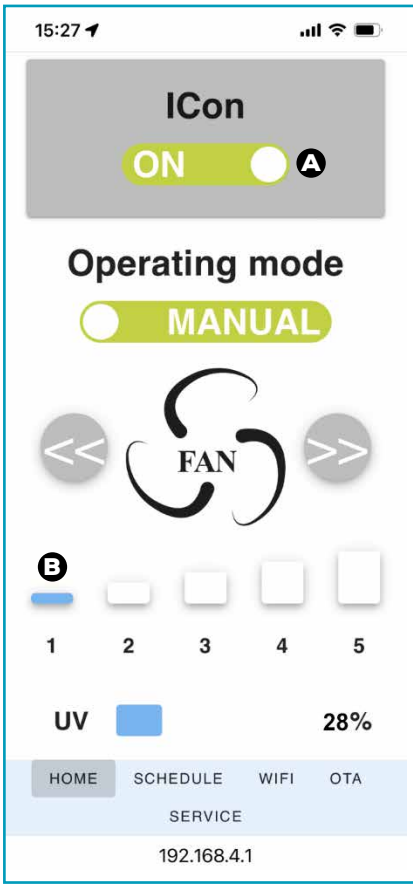
Now in the web address field (Figure … pos.6), enter the following sequence: 192.168.4.1, then select enter. And here is where you get to:

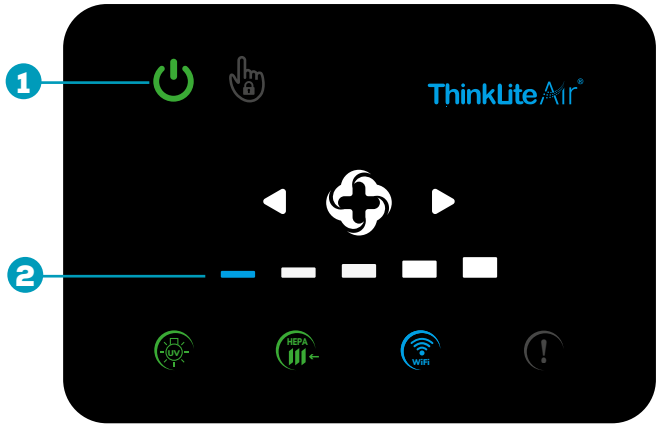


On this main screen you will find current working status of your ICon plus information on UV lamp and HEPA filter usage level. Also via the bottom menu you will be able to access other functions.

- **A** On/Off switch
- **B** Manual/Automatic Mode switch
- **C** Main fan speed Up and Down controls
- **D** Selected fan speed display
- **E** Bottom Menu, advanced functions access
- **F** Website address to ICon AP
- **G** UV lamp set remaining life time, in %
- **H** HEPA filter remaining life time, in %
- **I** Touch screen Unlock/Lock switch
- **J** ECO mode On/Off switch

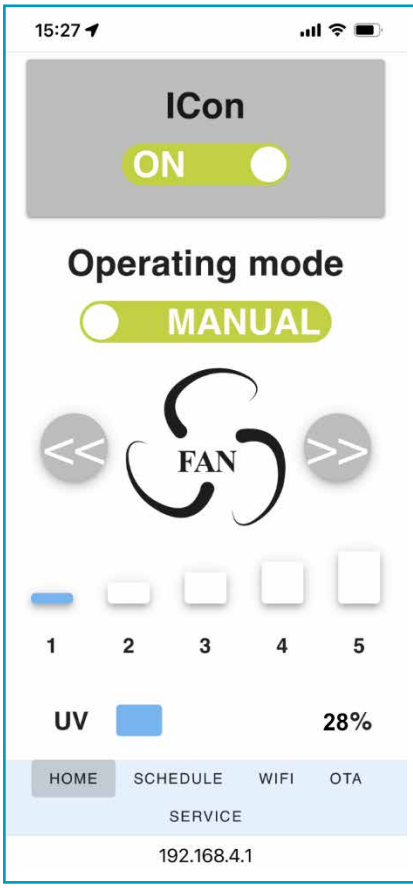
5. Using the ICon controls via the AP screen.





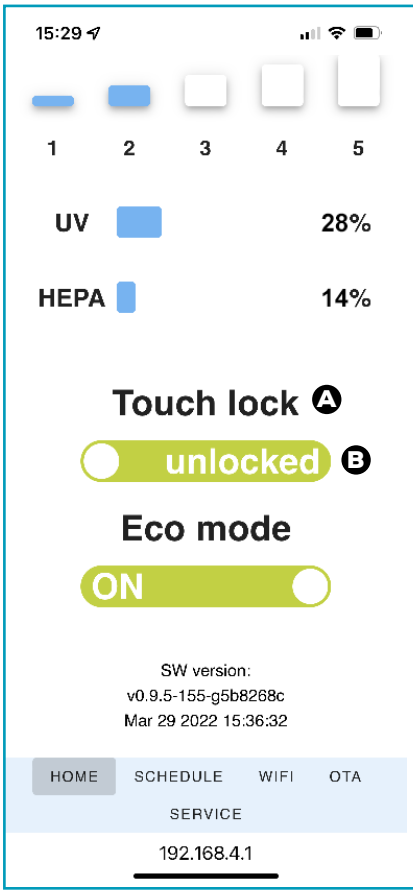
Using the On/Off switch turn you ICon On.
A the image turns green, the same you will see on your ICon touch screen, On/Off control turns green 1.
ICon when turned on always starts on fan speed 1 level B / 2.
Your ICon works currently on Manual mode.

6. Changing the Fan speed.



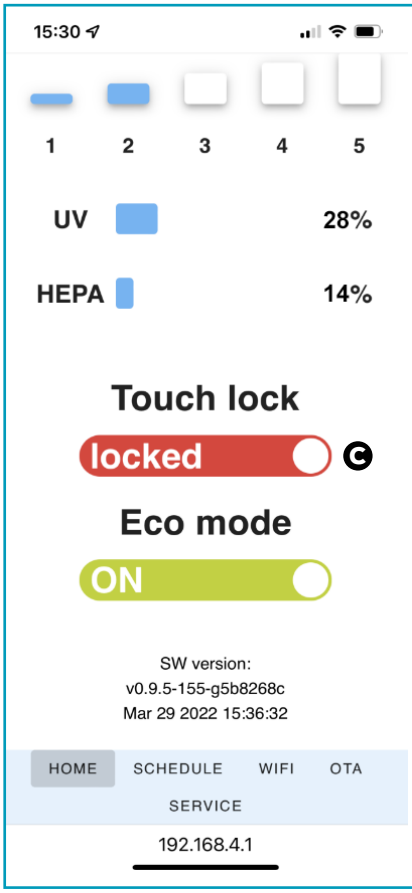
By using the Up ad Down fan speed controls you may change ICon fan speed.
Press Up button 1 once to change the fan speed 1 level up, touch it twice and change the fan speed 2 levels up.
Fan speed indication on the touch screen will confirm your selection.

7. Locking and unlocking the touchscreen.



Ⓐ To lock or unlock (activate or deactivate) the touch screen, use the Touch lock function.

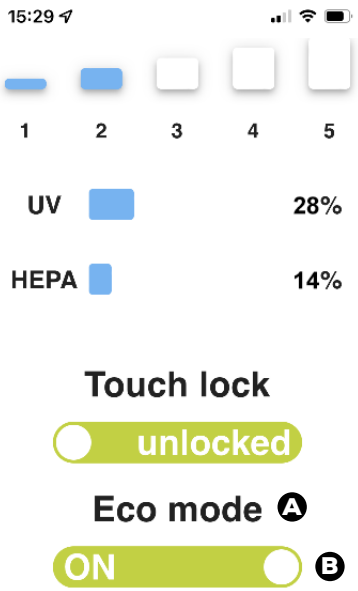
Ⓑ When slide bar is Green with “unlocked” message, ICon screen is active and anyone can change the unit settings (On/Off and fan speed controls) via the screen on the unit.



When slide bar is Red with “locked” message Ⓒ, unit screen is locked, no one can change any settings from touch screen.

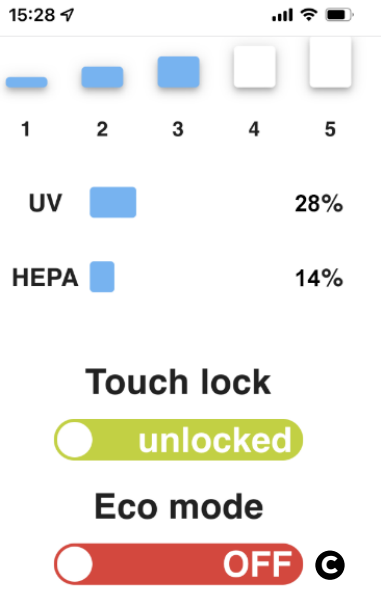
When touch screen is inactive,
the hand and padlock symbol is lit orange,
to indicate the touch screen being locked.
To activate screen again, you have to change settings in AP mode.

8. Activating and deactivating of the ECO mode.



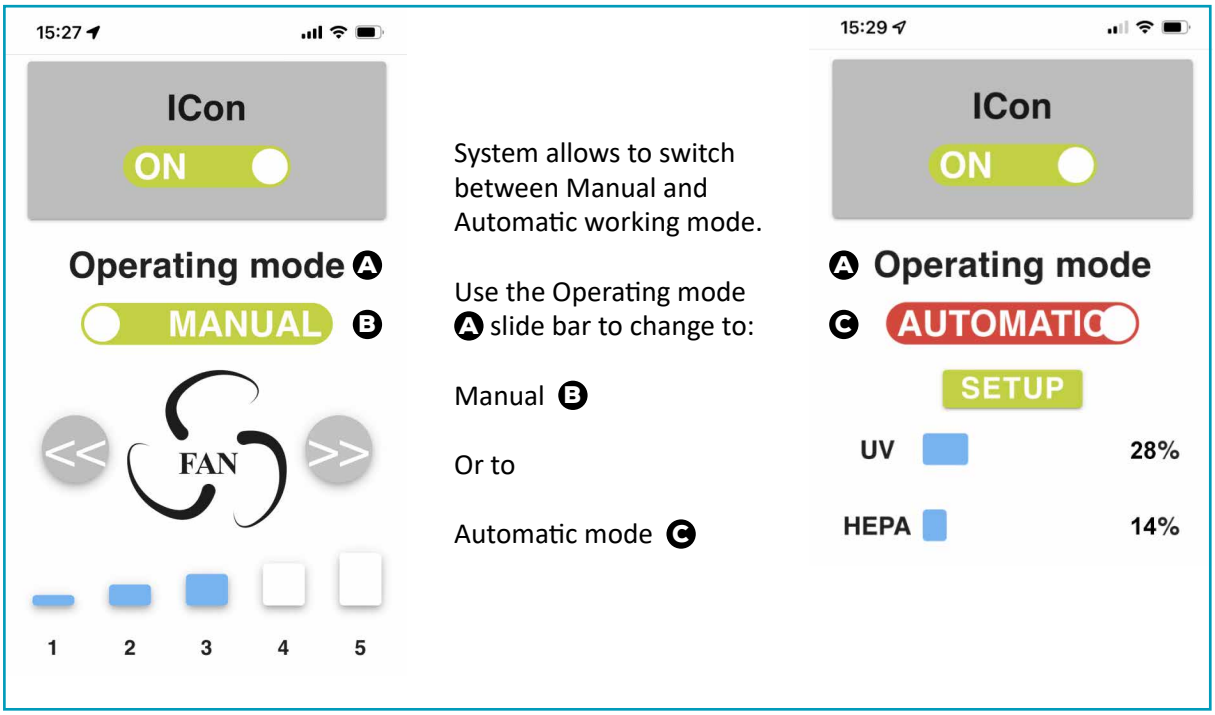
Ⓐ ICon system allows you to activate and deactivate ECO mode (see chapter 6.3)

When ECO mode slide bar is Green Ⓑ, the ECO mode is activated.

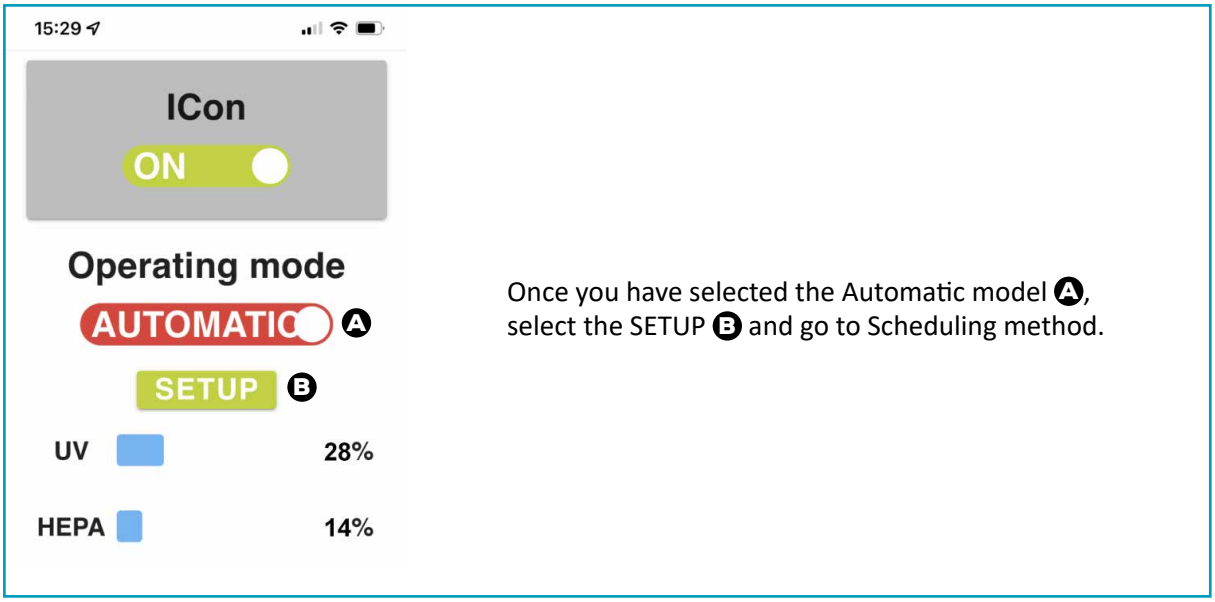


When slide bar is Red with Off on it Ⓑ, ECO mode is in Off position and chamber works on full power.

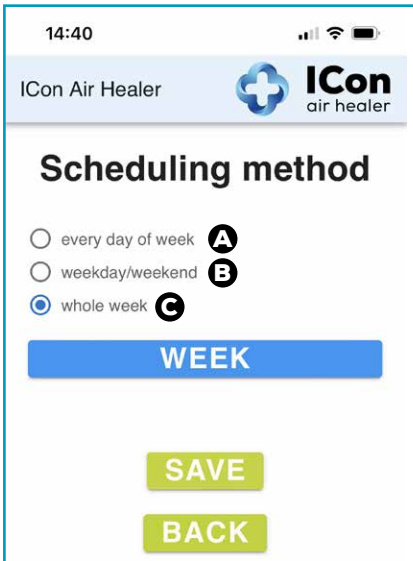
9. Changing from Manual to Automatic mode and vice versa.



10. Setting the weekly working plan in Automatic mode.



11. Scheduling method.



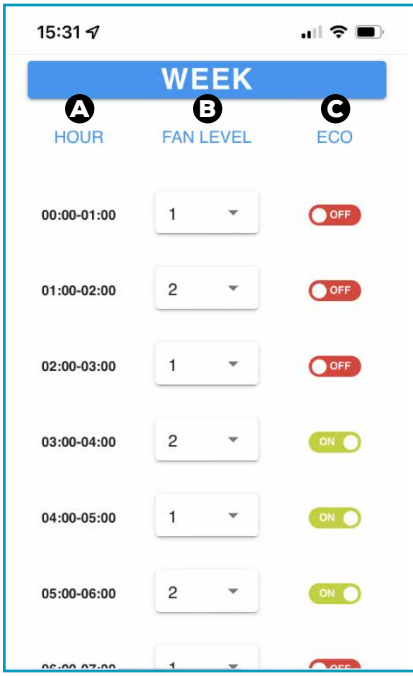
You may set different working plan for each and every day of the week, select “every day of a week” Ⓐ.

To set different plan for all week days and different for the weekend, select: “weekday/weekend” Ⓑ.

To set the same working plan for all 7 days of the week, select “whole week” Ⓒ.

12. Scheduling unit weekly working plan.

No matter what you plan, each day, week days weekends or a whole week, the scheduling method is the same.



Column 1 Ⓐ - scroll down to enter each 24 hour of a day.

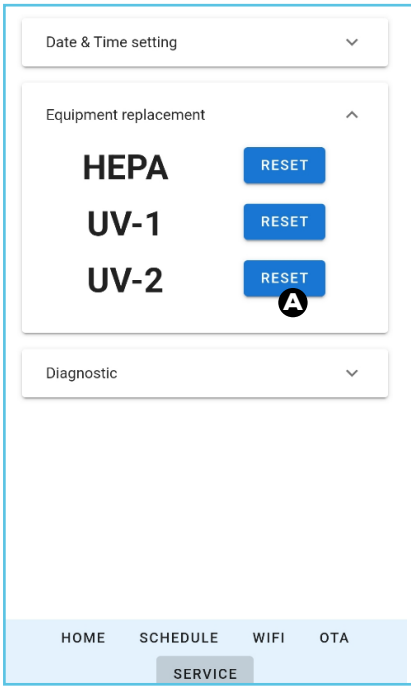
Column 2 Ⓑ - turn the unit Off for the selected hour or turn it On by selecting the desired Fan speed (1-5)

Column 3 Ⓒ – here you may activate or deactivate the ECO mode. Just slide it On or Off (left or right)

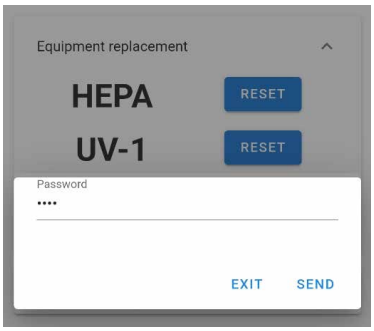
Plan all 24 hours, On/Off , fan speed and ECO On/Off and select SAVE to save weekly or daily plan.
Follow the same protocol for all 7 days of the week, SAVE it at the end. You ICon saves the working schedule in the internal memory. Every time you switch into Automatic mode , unit will follow the Saved plan.

13. Other functions.

ICon system counts the working hours to tell you when to replace HEPA filters and UV Lamps. It is important to reset the counter when these consumables are replaced.
To do that, enter the Service settings, then Equipment replacement.



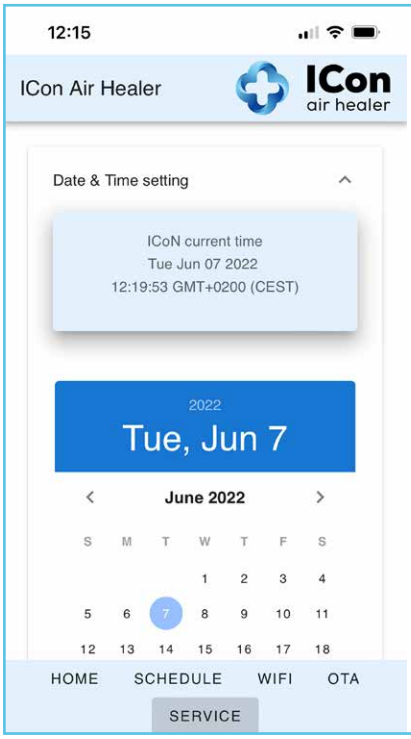
Enter HEPA RESET, system will ask you for Password.



Enter the Password provided in unit Manual and select SEND. Once correct Password is entered, system will reset the HEPA life span counter.
After that go to HOME screen

ATTENTION

UV-1 and UV-2 lamp counter reset is to performed only by an authorised service provider. Do not replace UV lamps yourself and/or by an unauthorised person.



ICon system may ask to set up Time&Date, in some cases system will inform the user of Time&Date settings problem by red lighting the Alarm/Error icon.

To fix the problem go to Service settings and using the simple tools set Date and Time and Save it at the end.

After saving new Date and Time, Error code will disappear. ICon will work according to new settings.

6.5.2 Hard Reset – how to reset unit settings back to factory default settings

ATTENTION

When you will want to move your ICon between the buildings, different locations and/or even change the WiFi network you will want your ICon to be connected to, you will have to perform so called Hard Reset – reset current settings, memorized in unit internal memory, back to factory default settings.

Here are the steps how to perform the Hard Reset protocol:

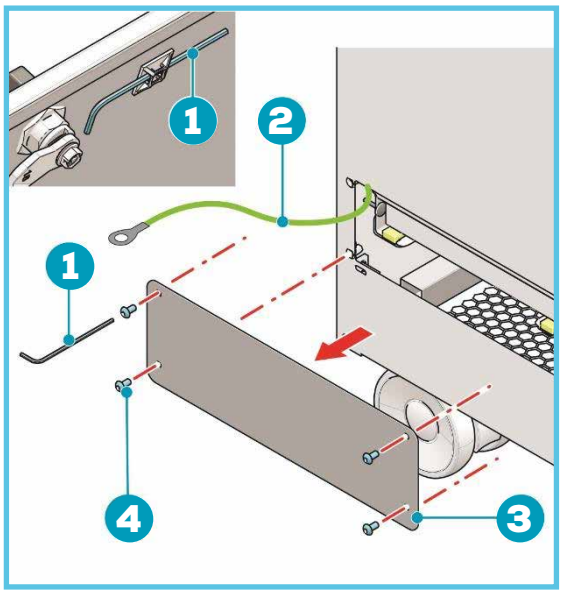


Figure 12

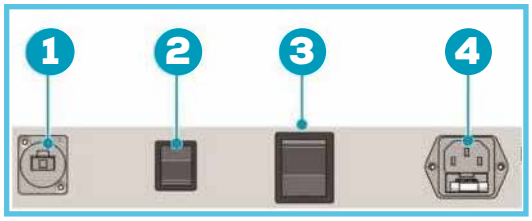


Figure 13

1. Before Hard Reset protocol, turn the unit Off with main power switch (Figure 13, pos.2).
2. To preform Hard Reset you will have to remove the PreFilter cover (Figure 12, pos.3). To do that use the hex key (figure 12 pos. 1), supplied with your ICon. You hex key is hidden on the lid of the HEPA filter compartment.
3. Using the hex key, loosen up the four screw on prefilter cover and remove the cover.

   Important: prefilter cover is connected to ICon body with grounding cable – Do Not disconnect this cable!
4. Now press the Hard Reset switch and hold it. While doing that turn the unit back On with main power switch.
5. Hole Hard Reset switch pressed for apro. 5-10 seconds. You will hear 5 beep sounds. The Touch screen will get alive in blue for a second, and unit will stay On.
6. Hard Reset protocol hase been performed successfully.
7. Now to finish, put the prefilter cover back on the main unit body, using the screws and hex key.
8. ICon is ready to connect to new WiFi network

7 Maintenance

7.1 Replace the pre-filter

WARNING

- Always switch off and unplug the unit before replacing the pre-filter filter.
- Always use the replacement filters recommended by your ICon Pro supplier.

1. Unscrew the Allen screws (4x - Figure 14, pos.4) of the pre-filter compartment panel (Figure 14, pos. 3) with the provided 2.5mm Allen wrench (Figure 14, pos.1)
   NOTE: The Allen wrench is attached to the inside of the main HEPA filter compartment panel).
2. Remove the compartment panel (Figure 14, pos.3).
   NOTE: There is a ground wire (Figure 14, pos. 2) connecting the compartment panel and the main ICon Pro unit. **DO NOT** disconnect it from the main ICon Pro unit.

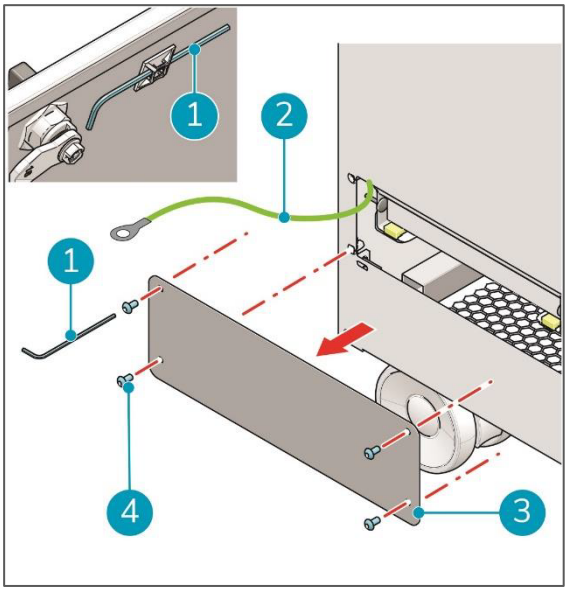


Figure 14

3. Pull the filter lock (Figure 15, pos. 1) forward and push it down.
4. Take the pre-filter by the handle on the front of the filter (Figure 15, pos. 2) and carefully pull it out of the compartment.
5. Put the old filter in the plastic bag supplied with the new filter.
6. Seal the plastic bag and follow the instruction on the bag for disposal.

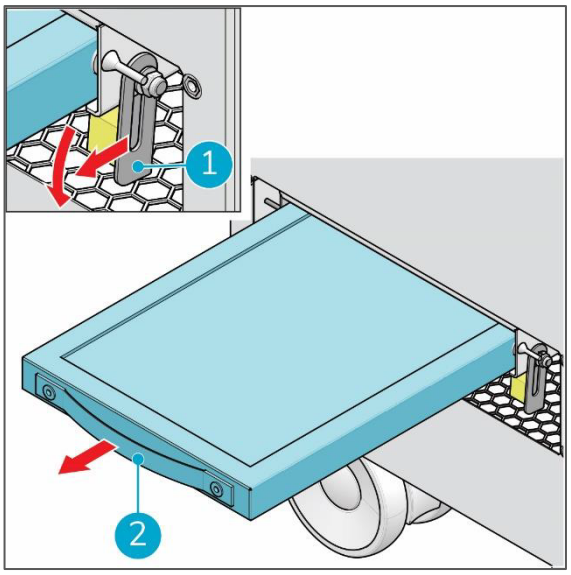


Figure 15

7. Carefully slide the new filter (Figure 16, pos. 1) into the compartment.
8. Pull the filter lock (Figure 16, pos. 2) upward and push it forward into the compartment to lock the filter.
9. Place the compartment panel and tighten the Allen screws (4x).
10. **NOTE**: Make sure that the ground wire (Figure 14, pos. 2) is always connected to the compartment panel. If needed attach again.

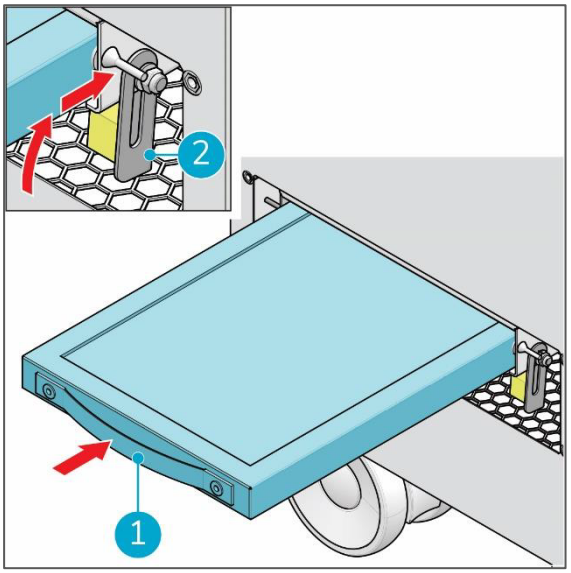


Figure 16

ATTENTION

The pre-filter collects heavy dirt and keeps it away from the ICon Pro's neutralization and clean compartments. When the ICon Pro's air inlets (front and bottom) are very dirty, it is advisable to change the pre-filter sooner (for example every six months) than the main HEPA filter.

7.2 Replace the main HEPA filter

WARNING

- Always switch off and unplug the unit before replacing the main HEPA filter.
- Always use the replacement filters recommended by your ICon Pro supplier.

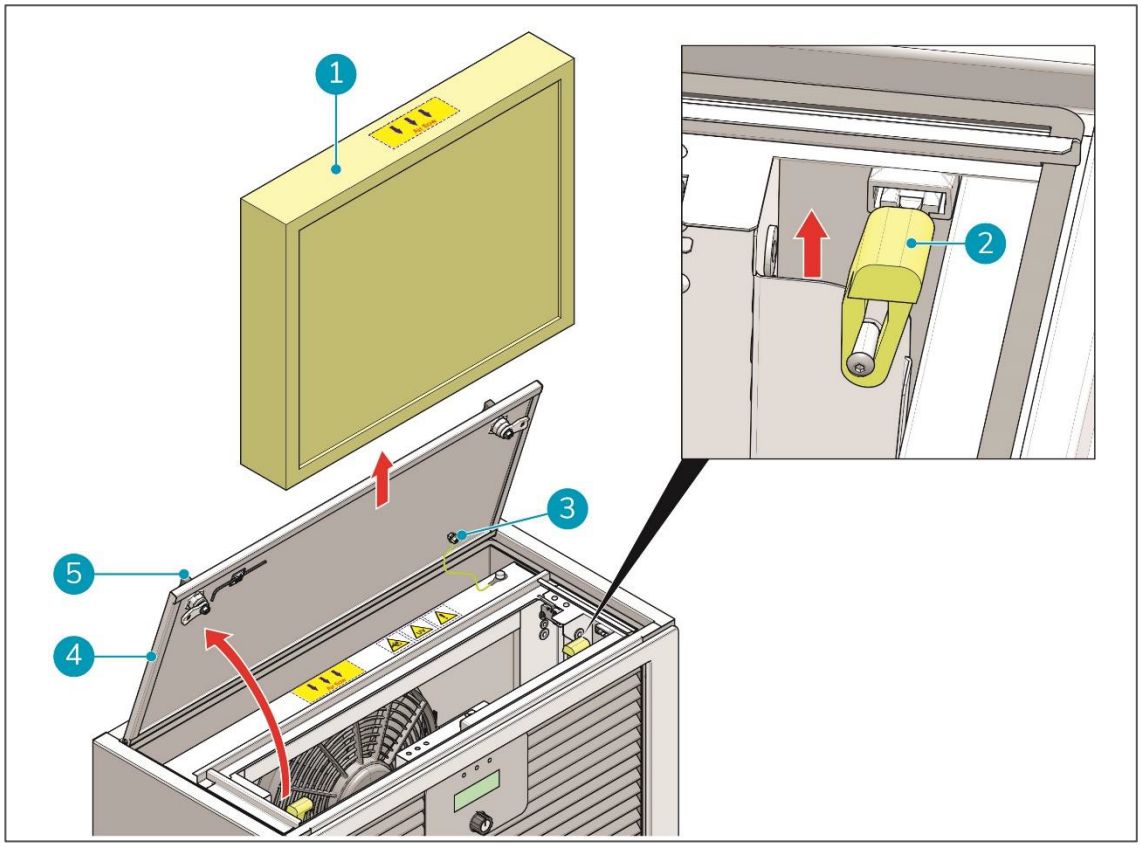


Figure 17

CAUTION

Handle the filter with extreme care.
Once the filter is damaged its filtration capabilities are limited.
Make sure you don't damage or touch:

- the filtration material;
- the gasket on the filter frame.

1. Turn the two knobs (Figure 17, pos. 5) on the main HEPA filter compartment panel (Figure 17, pos. 4) counter clockwise until the panel is loose.
2. Open the compartment panel.
   NOTE: There is a ground wire (Figure 17, pos. 3) connecting the compartment panel and the main ICon Pro unit. **DO NOT** disconnect it.
3. Pull up the two yellow locking levers (Figure 17, pos. 2) to release the filter.
4. Carefully pull out the filter (Figure 17, pos. 1) from the compartment.
5. Put the old filter in the plastic bag supplied with new filter.
6. Seal the plastic bag and follow the instruction on the bag for disposal.

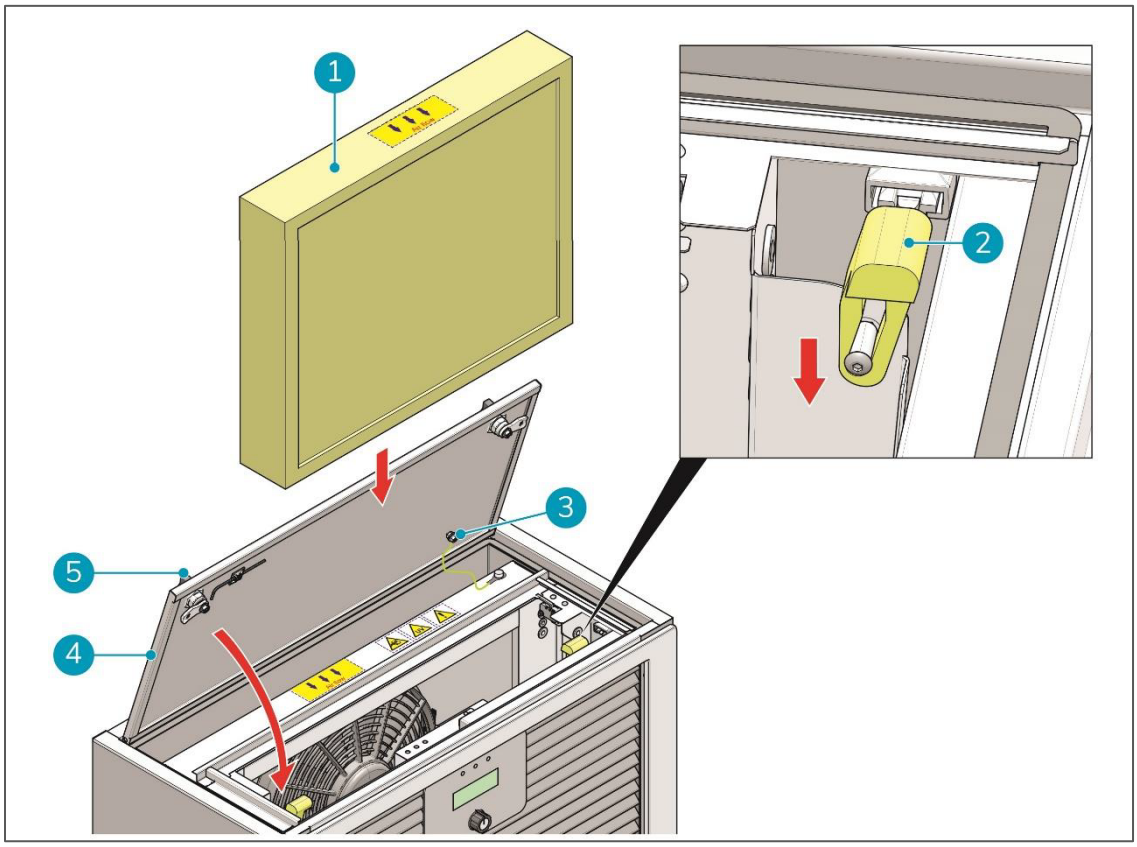


Figure 18

7. Carefully place the new filter into the compartment (Figure 18, pos. 1).
   Make sure that:
   - the arrows on top of the filter are visible;
   - the arrows point in the direction of the outlet airflow;
   - you handle the filter with great care to avoid any damage to the gasket on the filter. The side of the filter with the gasket **MUST** be directed towards the fan.
8. Push down the two yellow locking levers (Figure 18, pos. 2) to lock the filter.
9. Close the compartment panel (Figure 18, pos.4).
10. Turn the two knobs on the compartment panel (Figure 18, pos. 5) clockwise until the panel is locked.

7.3 Recommended additional cleaning

Keep the unit clean by wiping it with a dry cloth. Do not use any liquids to clean the ICon Pro.
Occasionally clean the air inlets (front and bottom) with a vacuum cleaner and/or a dusting brush.
Always disconnect and unplug the ICon Pro before cleaning it.
Cleaning the inside of the ICon Pro is not necessary. All main components are not accessible and are self-cleaning.

7.4 Ordering replacement filters

Always order your replacement filters using suppliers article codes.
For distributor address and contact data: see page 2.

7.5 Service interval UV-lamps

The ICon Pro is equipped with UV-A and UV-C lamps. The radiation of these lamps is crucial for proper functioning of the FS-ACT® technology. The UV-A and UV-C lamps have a limited life span. ICon Pro software measures the operating time of each lamp in the neutralization chamber. The total operating time is the indicator of the necessity of lamp replacement for service technicians only.
The ICon Pro is designed for trouble-free and low maintenance functioning for about 2 at 24/7 operation.

ATTENTION

When the device runs at full neutralization chamber power in 27/7 non-stop mode, the UV lamps must be replaced after 2 years.

8 Trouble shooting

Your ICon Pro is designed to work maintenance free for a long time. Of course, as in every technical unit, a problem may occur. Here are some hints on how to find a solution. If this doesn't solve your problem or if your problem is not listed, contact your nearest ICon Pro service point.

Problem	Cause	Solution
Turn on / turn off is not possible	Power cable not connected	Connect power cable
	Main power switch is turned off	Turn on main power switch
	Power cable is damaged	Replace the power cable
	Power source not functioning	Use another socket
Main power switch red indicator light is lit, green LED indicator on control panel is lit, but fan doesn't work	Panel(s) of filter compartment(s) are not properly closed	Close the panel(s) and make sure they are locked
	Fan level is not selected	In the Fan menu > Fan level select a Fan level (Low, Medium, High, Max)
	An error has occurred	Check the error codes in the Status menu and follow the instructions as stated in 6.4.7 Status menu
The ICon Pro sounds an alarm and the red LED indicator on the right side of the control panel is lit	Panel(s) of filter compartment(s) are not properly closed	Close the panel(s) and make sure they are locked
	The ICon Pro may need a system reset	Turn your ICon Pro of and turn it back on again
The ICon Pro doesn't clean the air good/fast enough	The selected Fan level is not correct	In the Fan menu > Fan level select a higher Fan level, for example from Low to Medium or High
	The air inlets in the front and at the bottom are polluted	Clean the air inlets
	The filters are polluted and need replacement	Check the Status menu and, if necessary, replace the filters
While in operation the ICon Pro sounds too loud	The air inlets in the front and at the bottom are polluted	Clean the air inlets
	The ICon Pro operates on a higher Fan level than needed	In the Fan menu > Fan level select a lower Fan level, for example from High to Medium or Low
	An error has occurred	Check the error codes in the Status menu and follow the instructions as stated in 6.4.7 Status menu

9 Decommissioning and disposal

ATTENTION

It is the responsibility of the ICon Pro owner to dispose of the product responsibly.

At the end-of-life the ICon Pro still contains valuable resources and needs to be disposed of according to your local laws and regulations regarding recycling of electrical equipment.

Before disposal please:

1. Remove the pre-filter and main HEPA filter.
2. Dispose of all items according to your local laws and regulations.

10 Attachments

10.1 Technical specifications

General specifications	
Power requirements	110V 50/60Hz
Energy consumption, 5 fan speeds (Eco mode)	LEVEL 1 - 186W, LEVEL 2 - 197W, LEVEL 3 - 205W, LEVEL 4 - 233W, LEVEL 5 - 291W
Energy consumption, 5 fan speeds (Default mode)	LEVEL 1 - 355W, LEVEL 2 - 367W, LEVEL 3 - 380W, LEVEL 4 - 407W, LEVEL 5 - 470W
Dimensions (without/with packaging)	1300x684x334/1328x794x444 mm
Weight (without/with packaging)	74/87kg
Fan motor	AC 230V, long lifespan, non-stop use OK
Control panel	Touch screen
Air output (Low-Max)	200-600m^3/h
Housing material	Metal
Color of main housing/locking arms	RAL7042/RAL7016 or RAL9003/RAL7016
Noise level, 5 fan speeds	LEVEL 1 - 40dB, LEVEL 2 - 48dB, LEVEL 3 - 53dB, LEVEL 4 - 57dB, LEVEL 5 - 61dB

Performance	
EN 1822 filter classification	HEPA H14 ≥99,999%
Main HEPA filter life	H14 - average up to 12 months, with 24/7 operation, depends on PM contamination level
PM particle filtration at ≥0,2µ (H14)	≥99,999%
VOC reduction (TVOC)	≥95-97%
Microbiological contamination reduction level	≥99,9999%
Output air quality, Merv standard	Merv 19

Other features	
Recommended room size	250m^2, depending on air contamination level
Max room size	Up to 250m^2
Neutralization chamber	Self-cleaning, long life, maintenance free 24 months (standard working mode)
Display languages	English
Fan speed settings	5
Control via local LAN and WiFi	Local AP and smartphone App
UV lamps life status	Real time control
Working modes	Manual/Automatic
ECO function	Reducing the neutralization power by 50% in rooms where there is no risk of VOCs and microorganisms
Electrical safety	CE, EMC certification

10.2 CE certificate

TCO
The Clean Option

EG/EC
KONFORMITÄTSERKLÄRUNG
DECLARATION OF CONFORMITY

Wir:
We: **TCO Sp. z o.o., ul. Tyniecka 126C, 30-376 Kraków, Poland**

Erklären in alleiniger Verantwortung, das das Produkt: Luftfilter- und Reinigungssytem
Declare under our sole responsibility that the product: Air filtration and cleaning system

ICon Air Healer
(Art der Machine / Type of machine)

ICon Pro , production year 2022
und folgende / and following,
(Modell – Seriennummer, Baujahr / Model – serial number, year of production)

auf das sich diese Erklärung bezieht, mit den folgenden Normen übereinstimmt,
to which this declaration relates is in conformity with the following standards,

EN 55014-1:2006 Household appliances and similar
EN55014-2:1997 + A1:2001 Category II
IEC 61000-4-2:199 +A1:1998 + A2:2000 , IEC 61000-4-4:2004, IEC 61000-4-5:2005, IEC 61000-4-6:2003 + A1:2004 + A2:2006, IEC 61000-4-11:2004, EN 61000-3-2:2006, EN 6100-3-3:2008

(Titel und/oder Nummer sowie Aufgabedatum der Norm(en) oder der anderen normativen Dokument(e)
(Title and/or number and data of issue of the standard(s) or other normative document(s)

gemäss die Bestimmungen der Richtlinien:
follow the provision of directives: **2004/108/EC**

Kraków, 01.05.2022

Dariusz Mikolajczyk
Director

(Ort und Datum der Ausstellung)
(Place and Datae of issue)

(Name und Unterschrift oder gleichwertige Kennzeichnung des Befugten)
(name and signature or equivalent marking or authorized person)

TCO Sp. z o.o | ul. Józefitów 15/1 | 30-045 Kraków | Poland | T +48 12 268 32 18 | E-mail : hello@thecleanair.eu