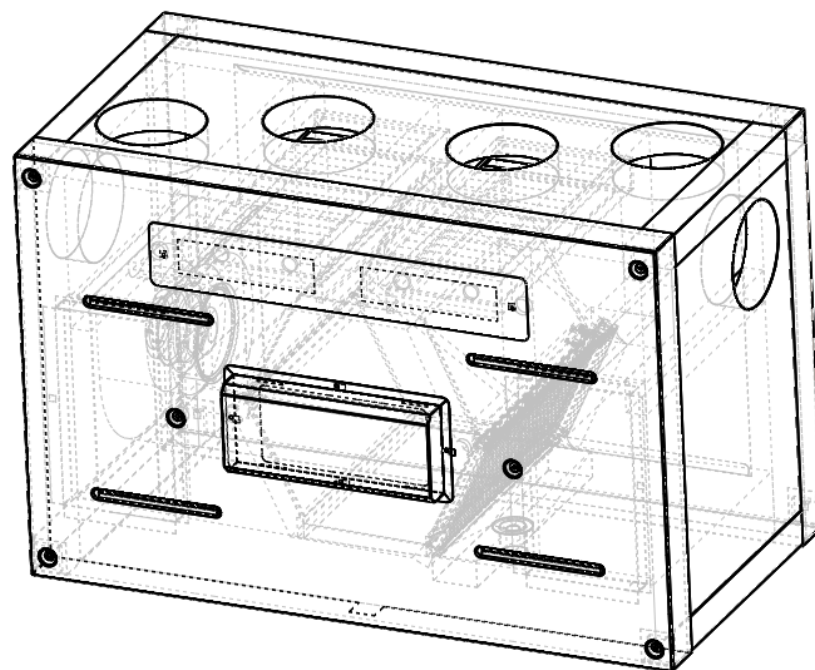


ProAir 700LI



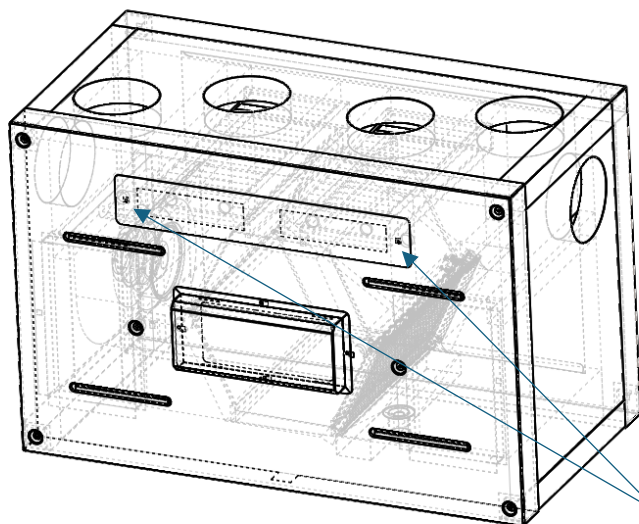
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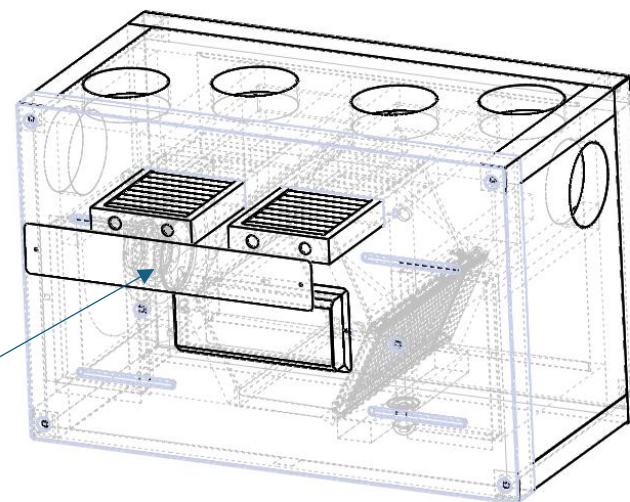
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Changing filters in your PA700LI MVHR Unit



Filter Access,

Unscrew the 2 thumb screws
and remove the panel to
access the filters

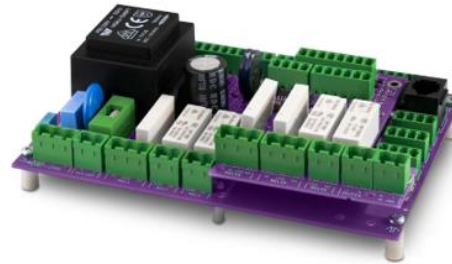


ProAir Hardware Components

The touch panel visual will be located in an area that is accessible



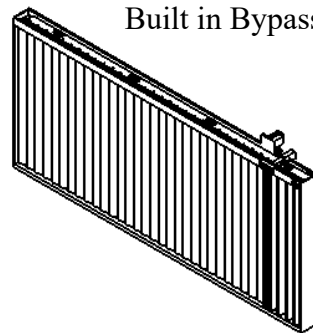
PCB – Located in the MVHR unit



Wireless Boost Switches



Built in Bypass



Built in Co2/Humidity and Temperature Sensors



ProAir Touchpad Panel Explained

The ProAir Touch Panel can only control basic ventilation modes and settings. The device is controlled by touching the selected function button on the touch control panel.

Button symbols and LED signal meanings:

The LEDs will light up when the device is switched on. LEDs, indicate the status of the unit when it is switched on, e.g. fan speed selected, automatic control activated, scheduling, bypass, error notifications etc



If LED is lit, Bypass is activated



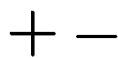
Used to switch between Bluetooth and WiFi



An LED illuminates to inform you when the unit is operating according to the timetable schedule set by the weekly calendar



The speed of the fans will change automatically depending on the air quality information received from the CO2 and Humidity sensor



Increases or decreases the fan speed.



LED Alert - Signaling of active events from the unit. LED will light if there is an error



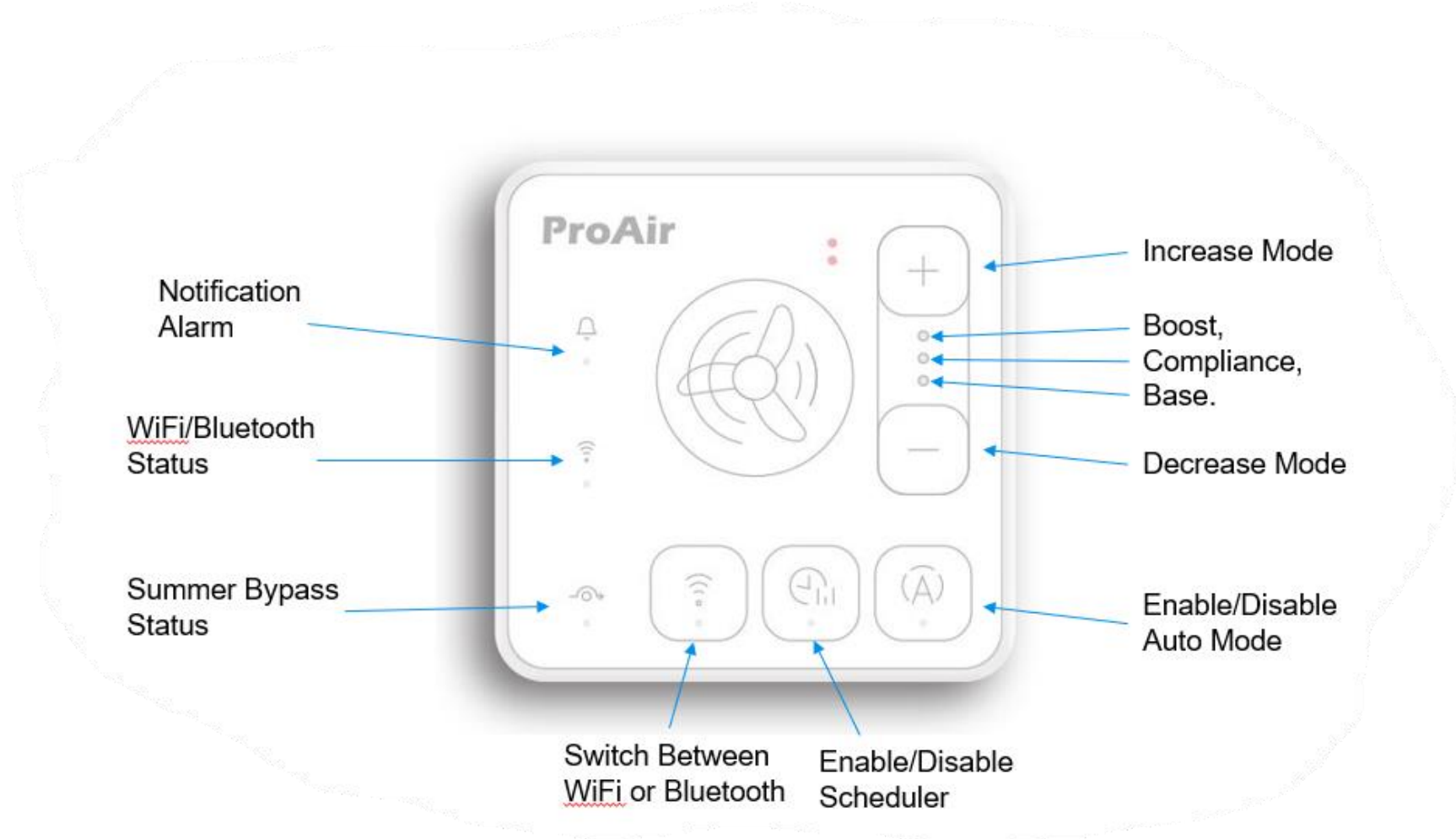
LED Alert - A rapidly flashing LED means that a Bluetooth signal is being emitted.

A steady lit symbol means there is an active connection to the Wi-Fi network and the internet.

A slow flashing symbol means there is a connection to a Wi-Fi network but no internet connection.

If the system is powered off for any reason and then the power comes on again, the system will start operating with the settings it had before the power outage

ProAir Touchpad Panel Overview



ProAir Apps – can be found on Google playstore or Apple store

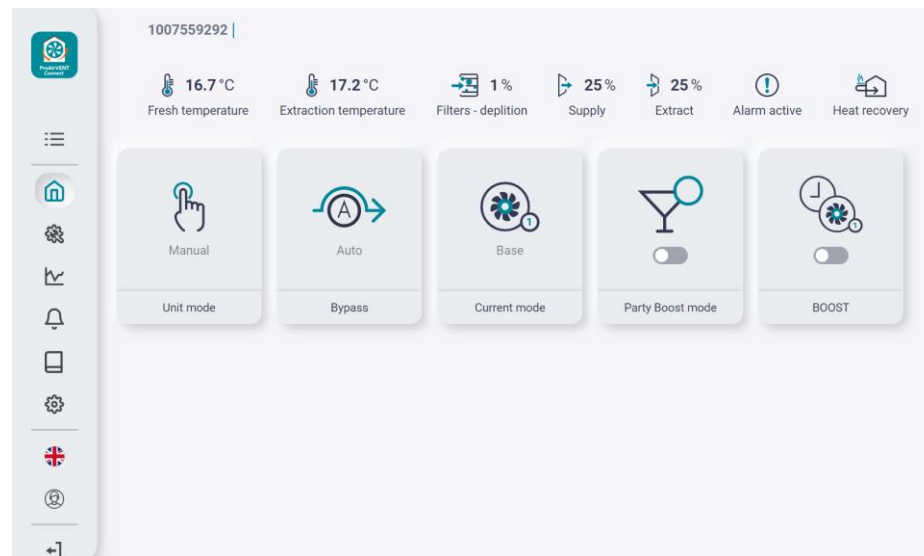


ProAirVen Local Control – The bluetooth Application connects to the system when you are within 10 metres of the touchpad panel visual, it is design for device control and configuration



ProAirVent Connect – The Cloud application connects to the system from anywhere in the world once the Touchpad panel is setup and connected to an internet connection

ProAir Cloud Dashboard - www.proairventconnect.ie



App Download Links

Google Play

<https://play.google.com/store/apps/details?id=ie.proairvent.connect&hl=en>

<https://play.google.com/store/apps/details?id=com.proair.proairventlocalcontrol&hl=en>

Apple Store

<https://apps.apple.com/us/app/proairvent-connect/id6504237829>

<https://apps.apple.com/us/app/proairvent-local-control/id6504237752>

Cloud Dashboard Website

www.proairventconnect.ie

ProAir App QR Codes

Google Play ProAirVent Local Connect



Apple IOS ProAirVent Local Connect



Google Play ProAirVent Connect

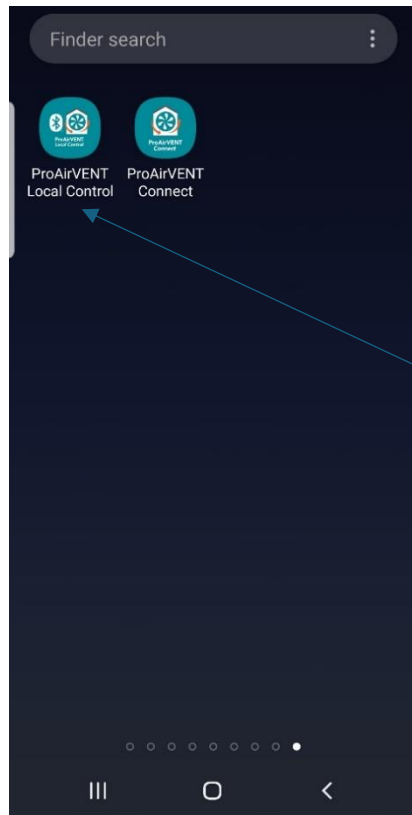


Apple IOS ProAirVent Connect



Bluetooth App Walkthrough

Opening the Bluetooth App (ProAirVent Connect App) after downloading to phone device

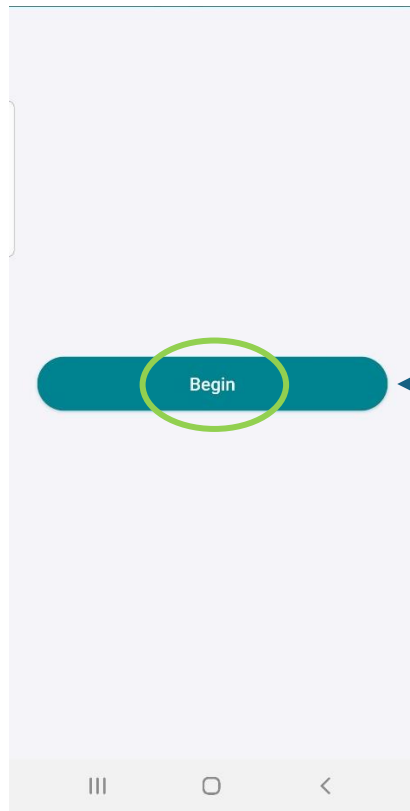


ProAirVent Local App – This app is to be used if you are not connected to the Internet, it is for local connection via Bluetooth

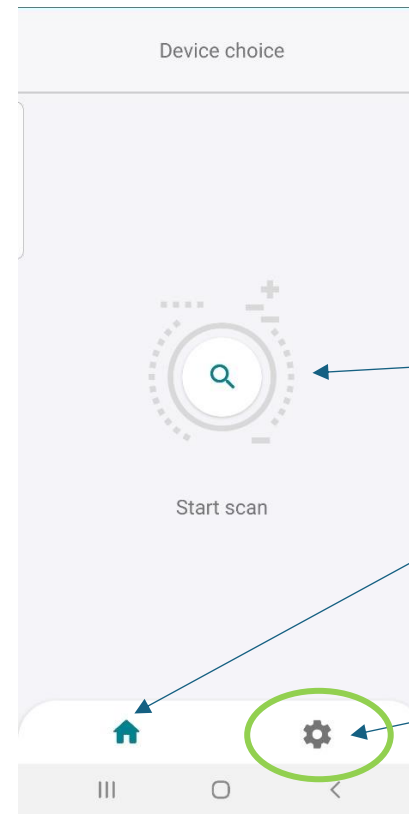


ProAirVent Local Control App loading screen

Begin - Scan for device screen



Click on Begin to move to the device scan screen



On the scan screen there are some options

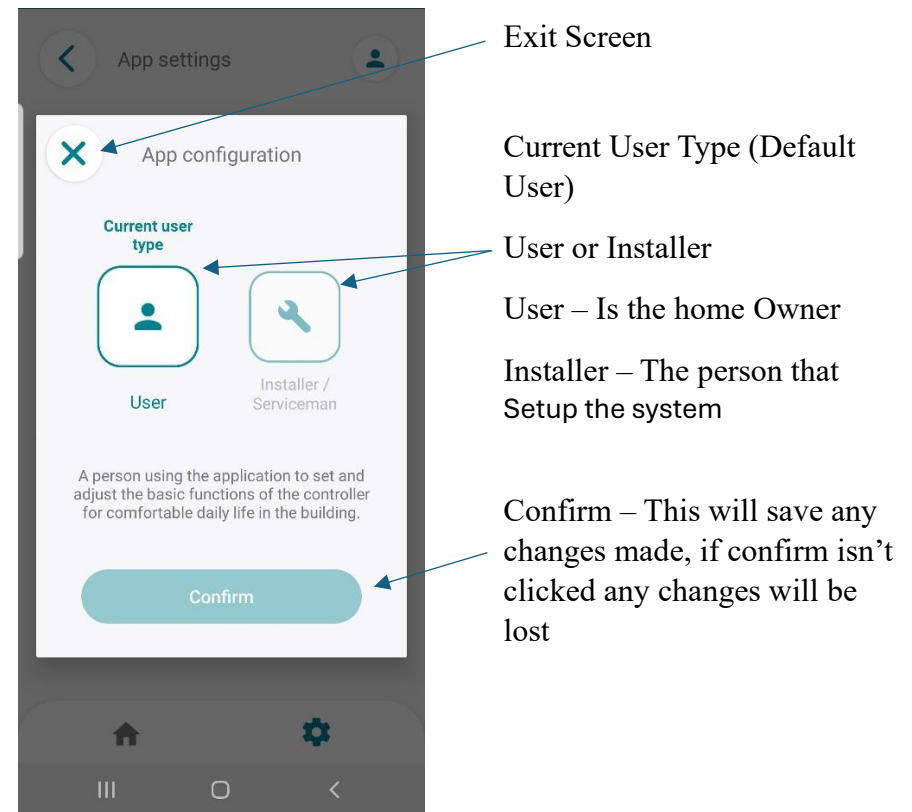
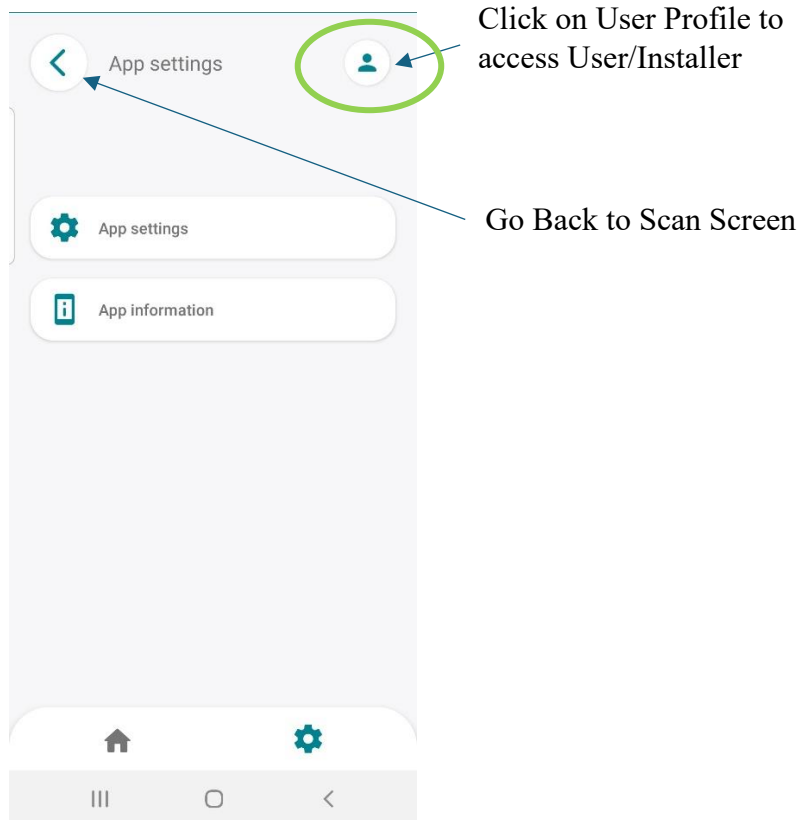
Scan for the MVHR Device

Home icon – Lets the User return to the home screen

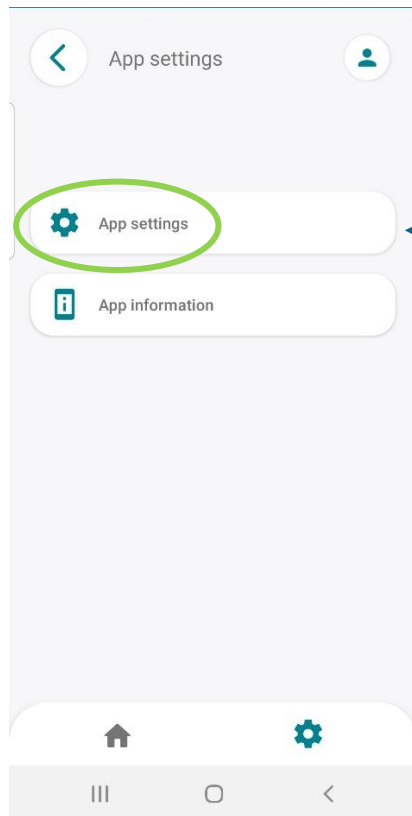
Settings Icon – Allows the user to change control access (User or Installer), App colouring and Degree Format (C or F)

Scan screen settings icon

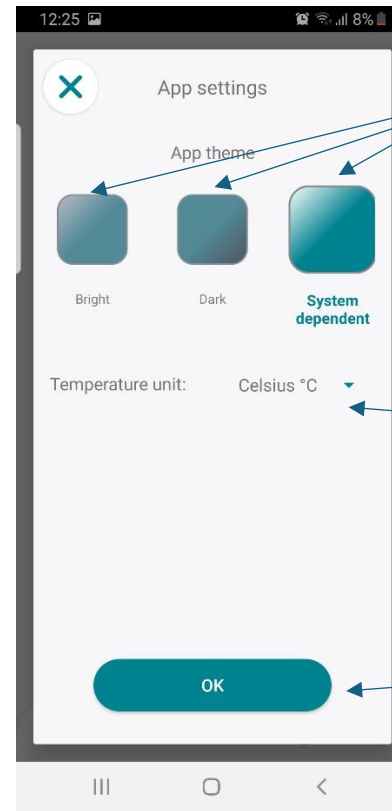
User Profile



App Settings



App Settings



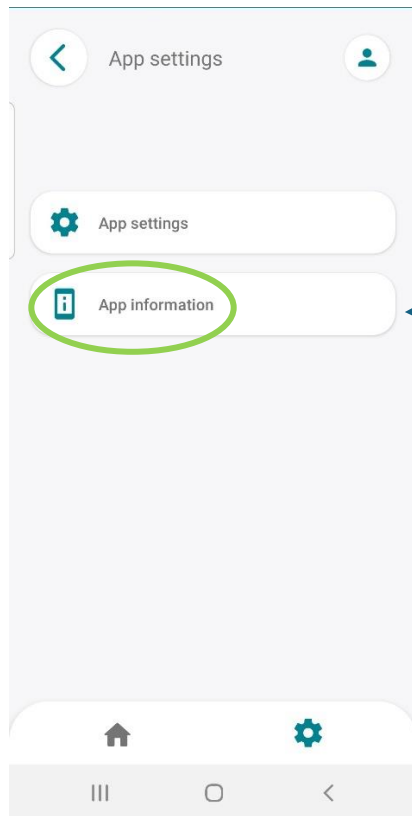
App Themes

Change the App Theme,
Bright, Dark or system default

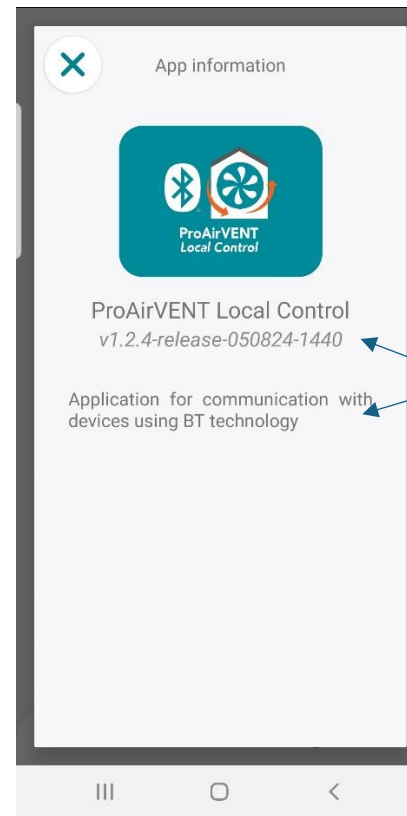
Temperature Unit can be
changed Celsius or Fahrenheit

Ok – This will save any
changes made, if confirm isn't
clicked any changes will be
lost

App Information

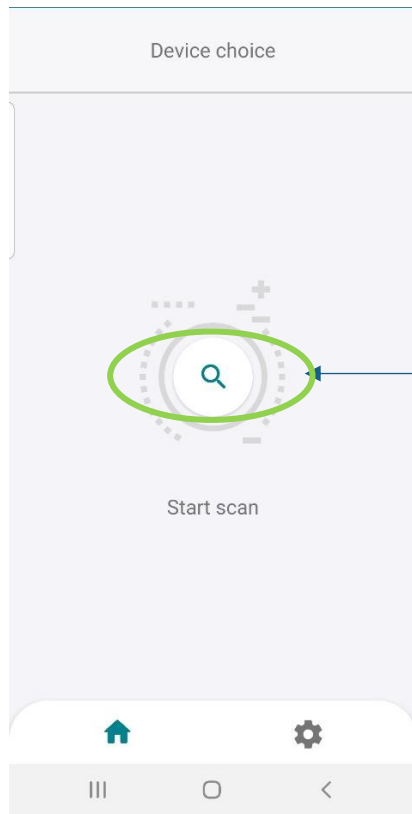


← App Information

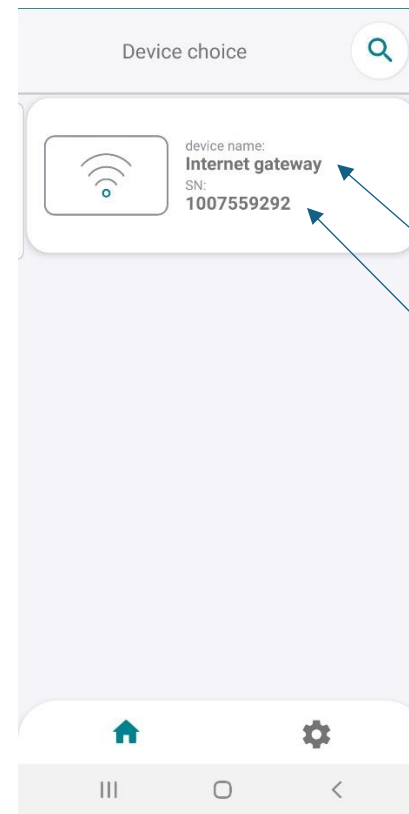


App Information

Scanning for Connected Devices



Scan for the MVHR Device



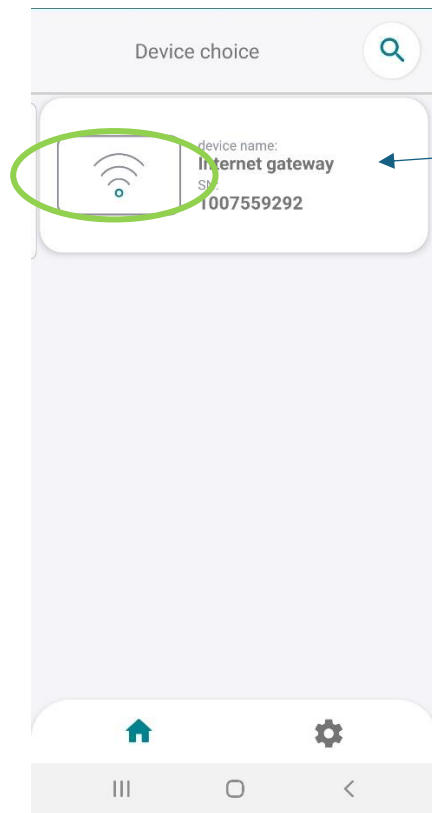
Refresh Search

Device Name – (Internet Gateway is default)

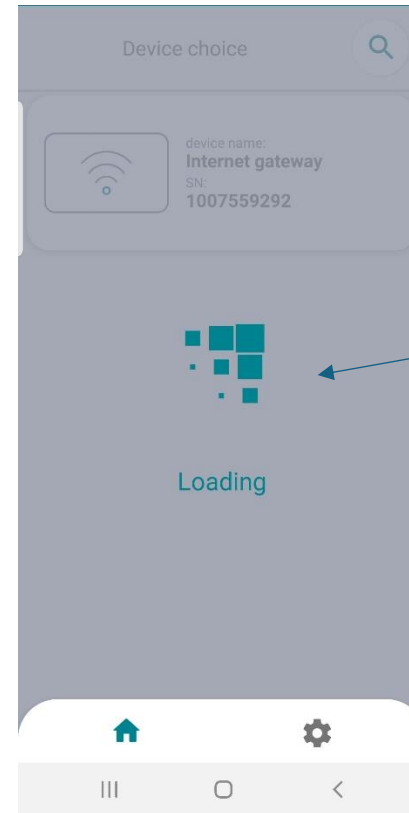
Serial Number specific to system

(Bluetooth and Wi-Fi are fitted in the touchpad)

Scanning for Connected Devices (Continued)



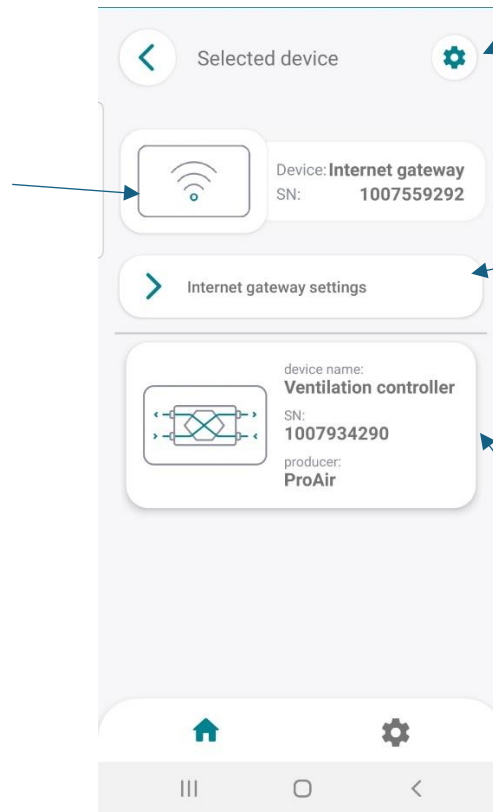
Click on the System Icon



System operation loading

Device Control Home Screen

Touchpad Device settings –
Allows the user to setup an App password for limiting access control



Settings – This is to update software for the touchpad

Internet Gateway Settings

Setup system to Router

Get ProAir Vent Local Control Password

Time Synchronisation

Other Internet Gateway Settings

Ventilation Controller

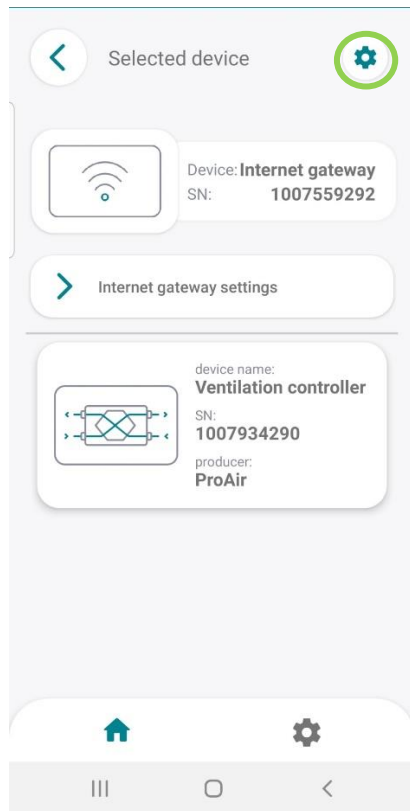
This is control of the PCB parameters for

Users,

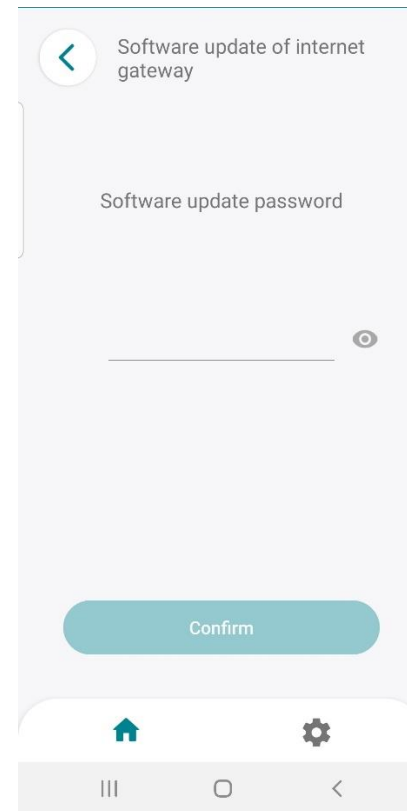
ProAir Installers and

ProAir Service

Touchpad Software Update



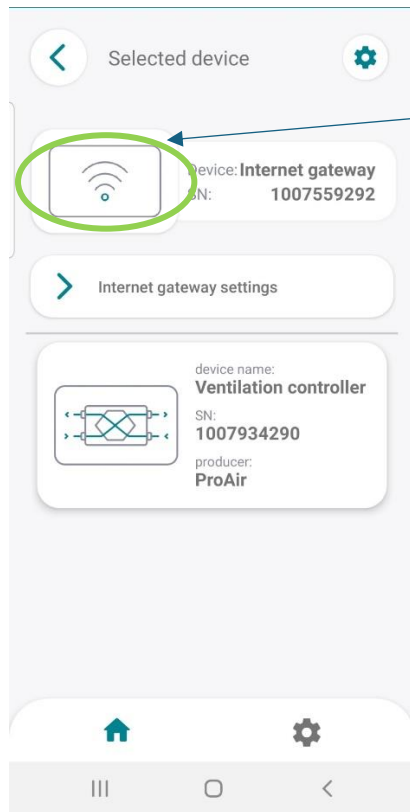
Settings – This is to update software for the touchpad



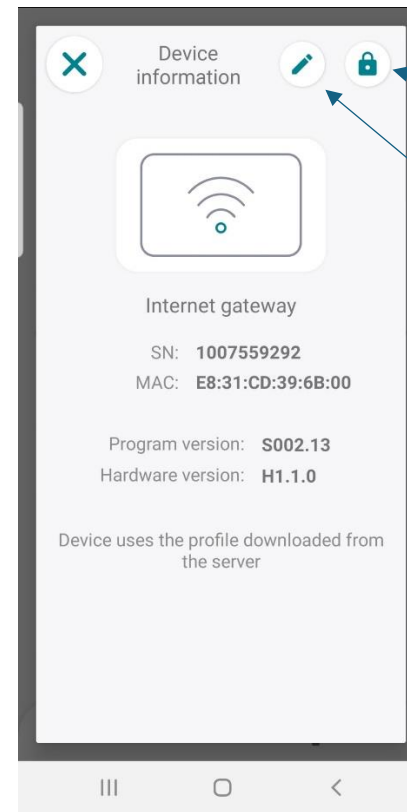
Software updates can be performed by an installer locally when in the owner's home

(this is password protected)

Rename Device/Setup Password



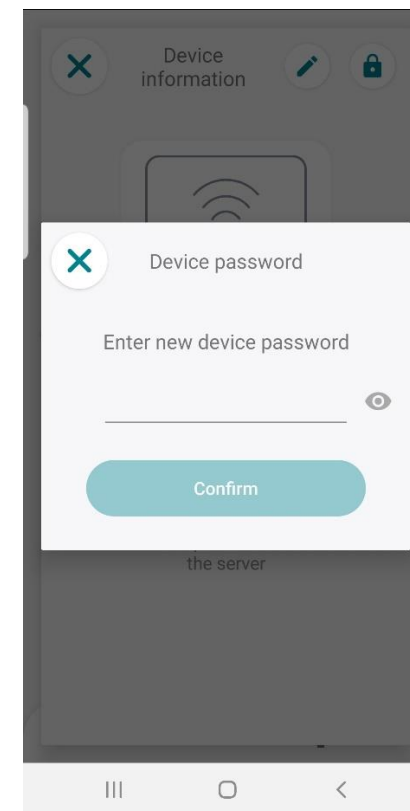
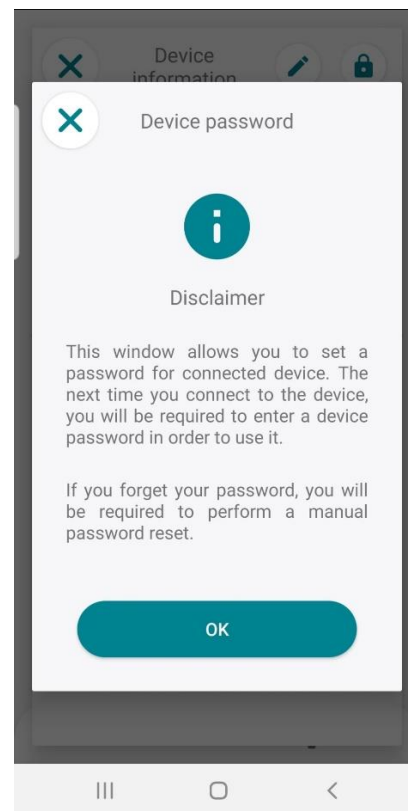
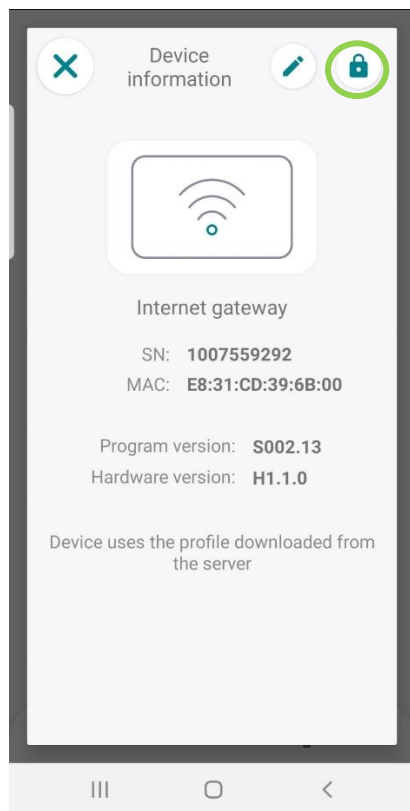
Setup Password protection
and Edit Device name



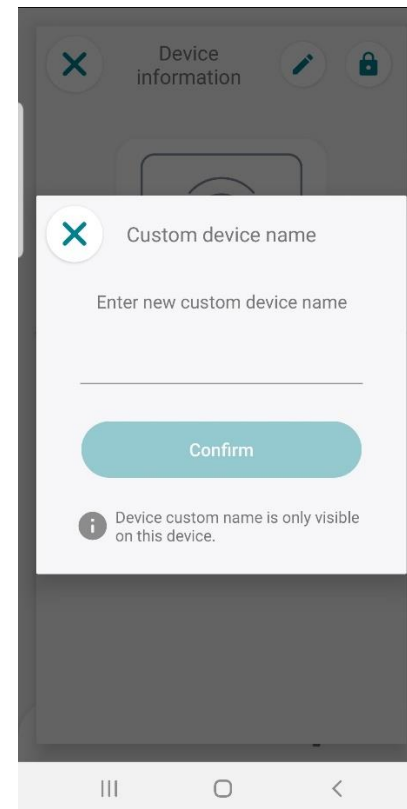
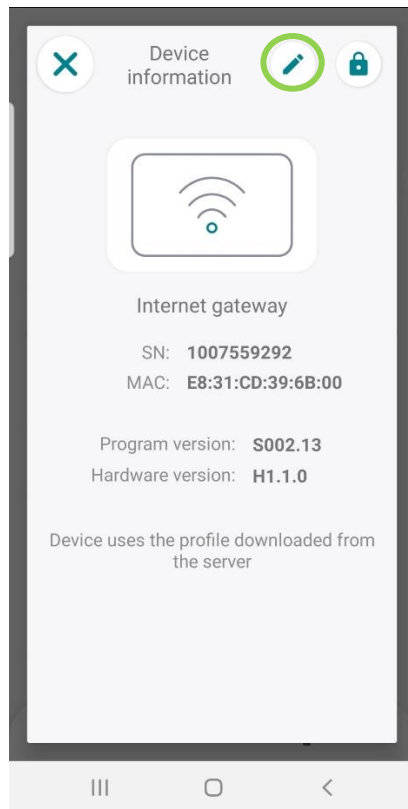
Setup Password protection

Edit Device Name

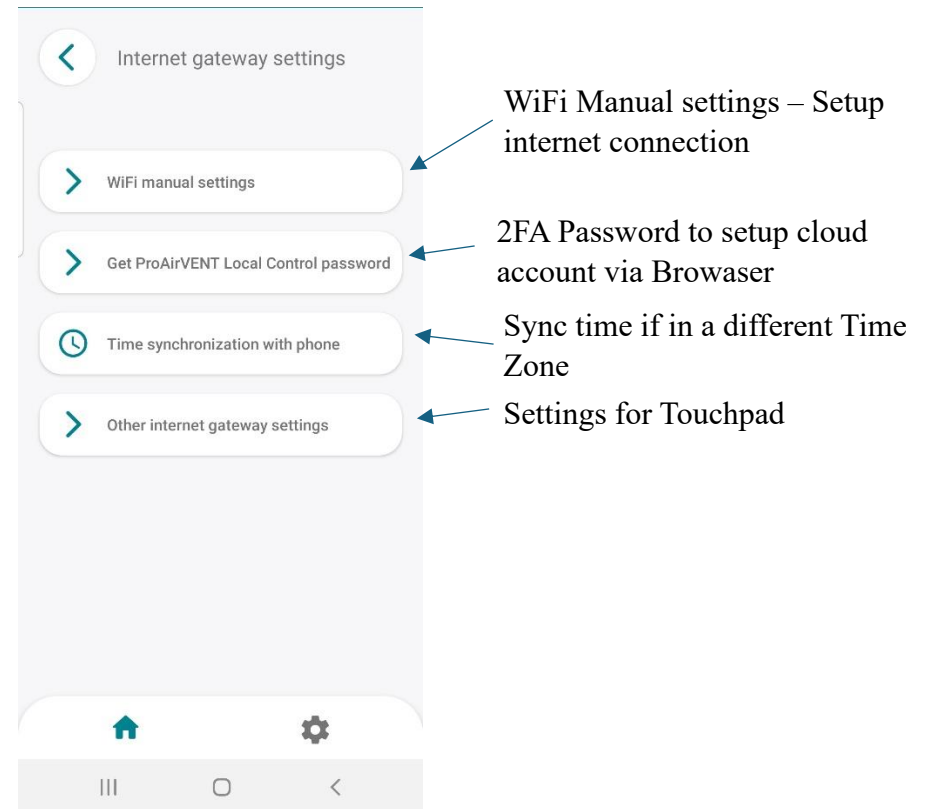
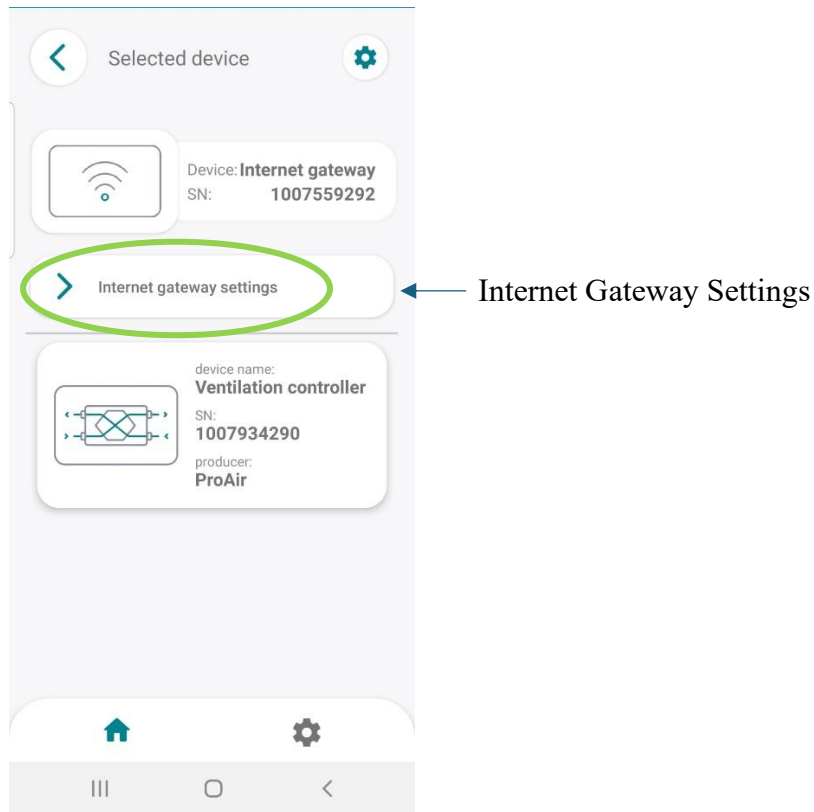
Setup Device Password



Setup Device name setup

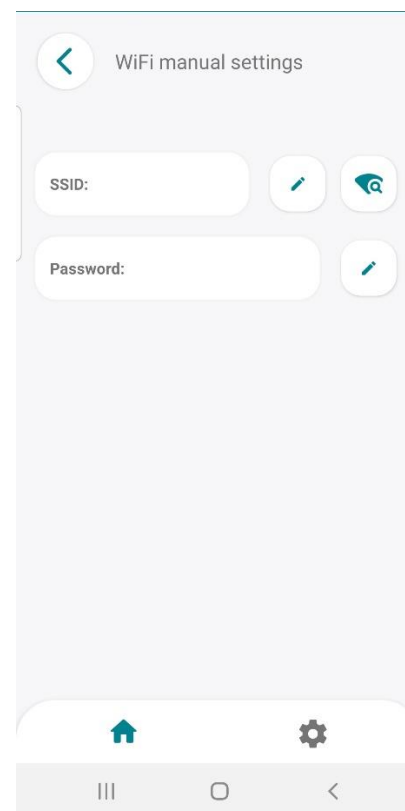
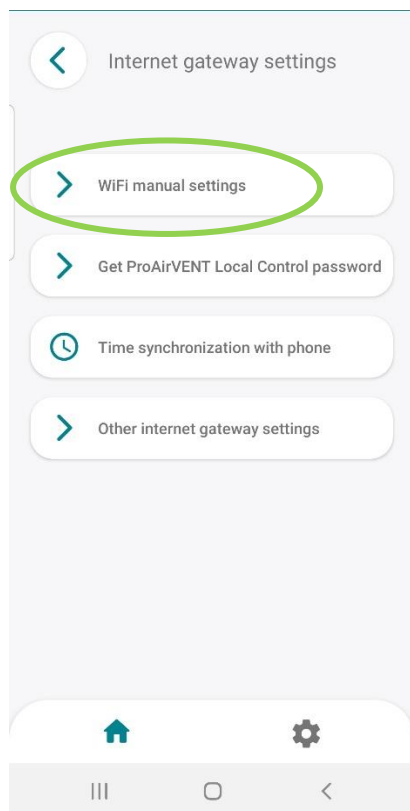


Internet Gateway Settings

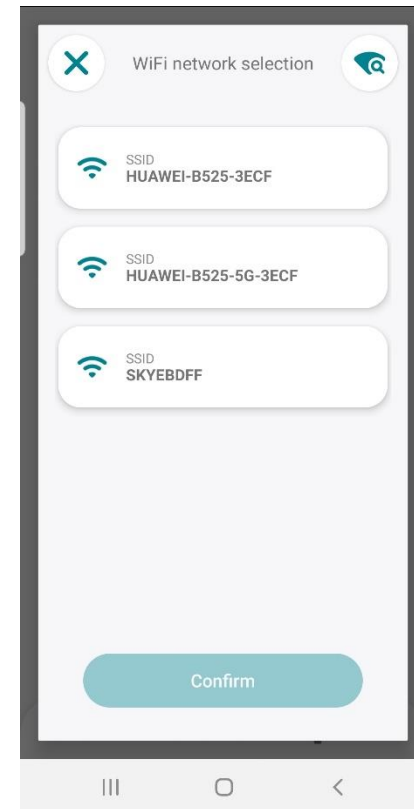
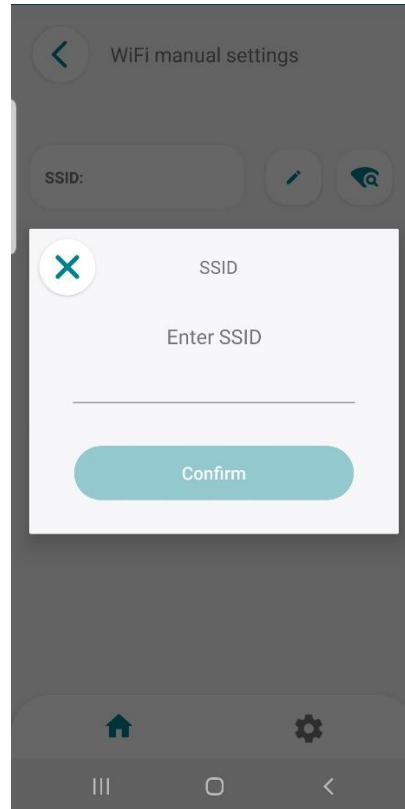
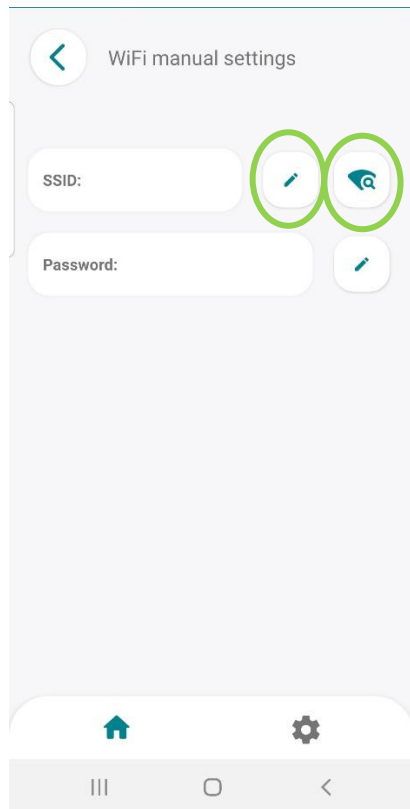


Setup Router connection

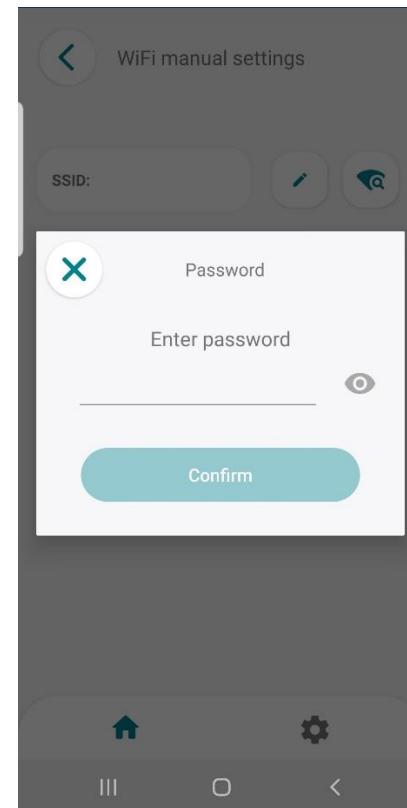
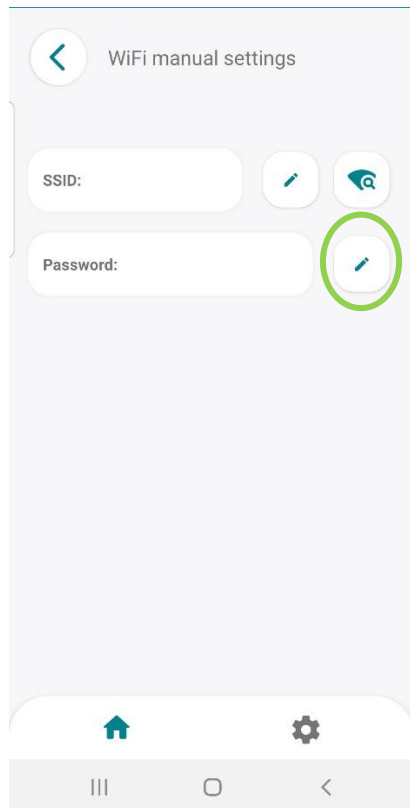
Setup Connection to the internet



Setup Router Connection (Continued)

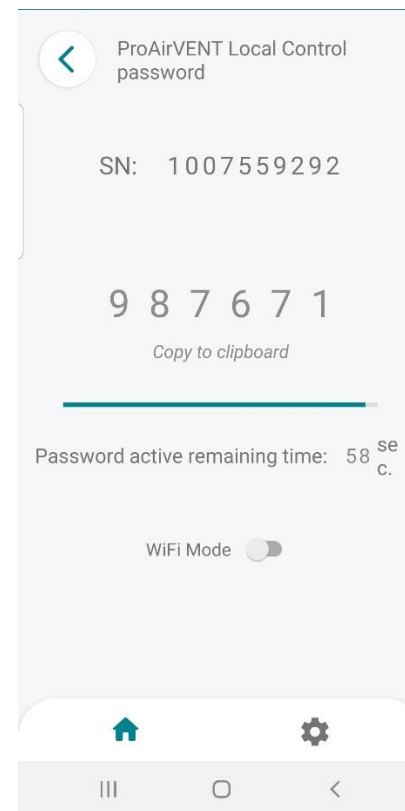
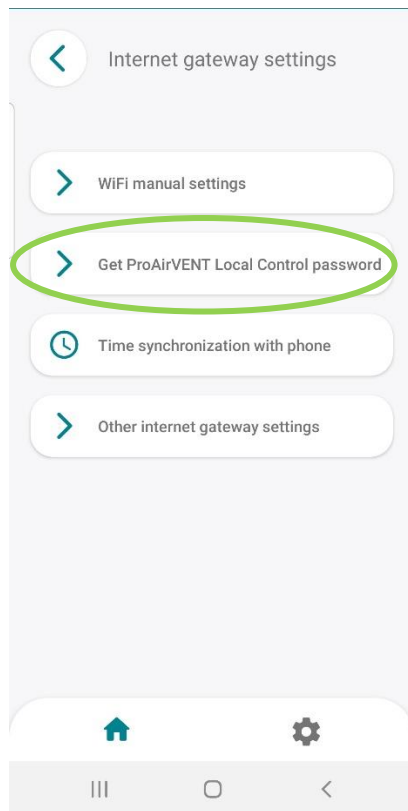


Setup Router Connection (Continued)



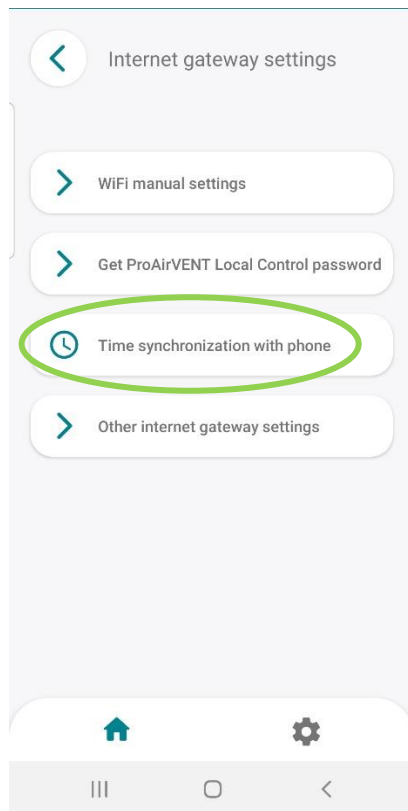
2FA Request Code

Needed when creating an account via a browser instead of using the app to create an account



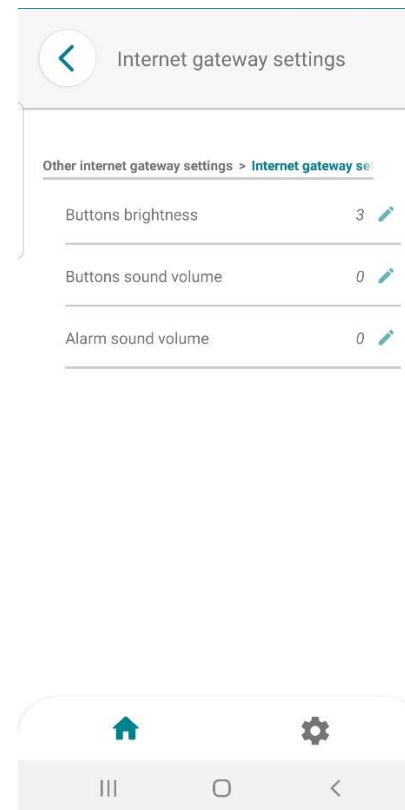
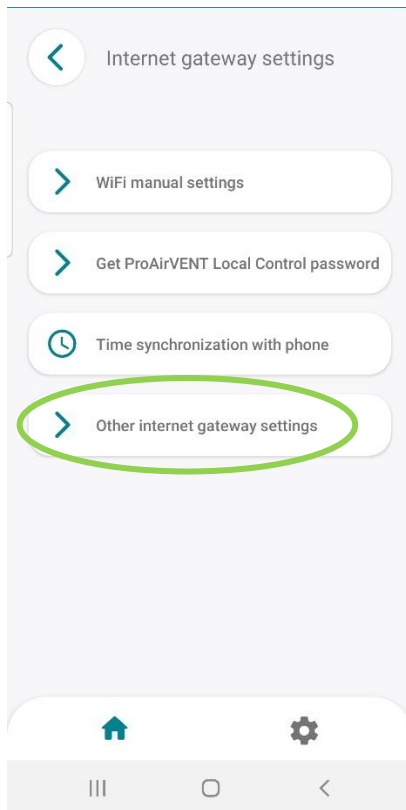
Time Synchronization

Can sync in with any time zone from the Users phone

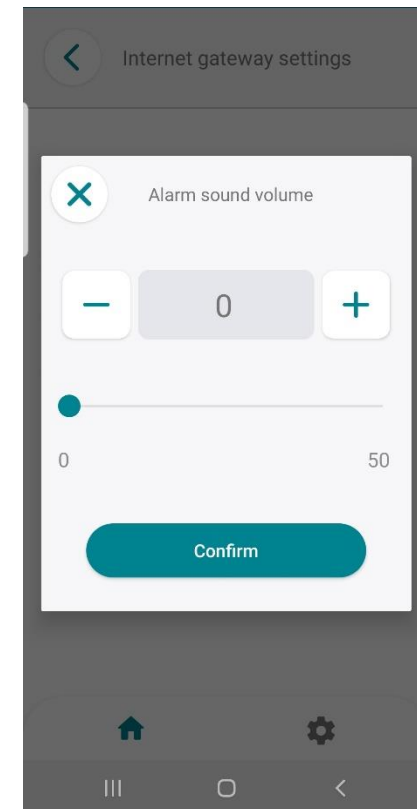
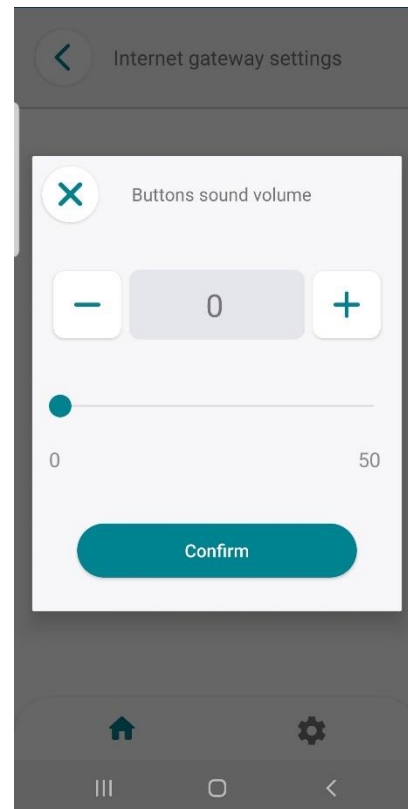
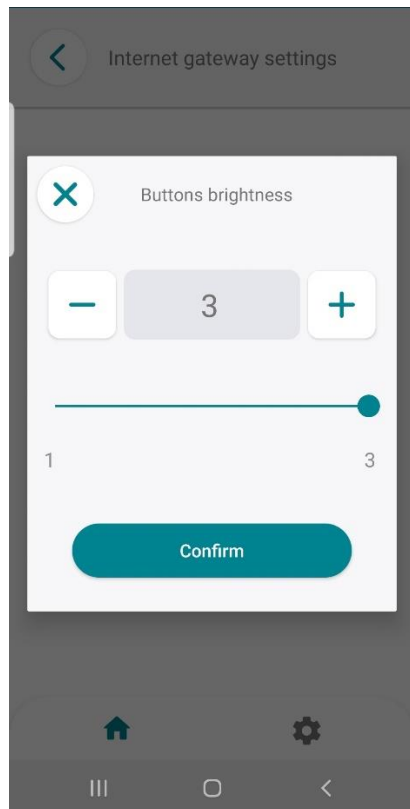


Touchpad Brightness, Volume and Alarm Noise Levels

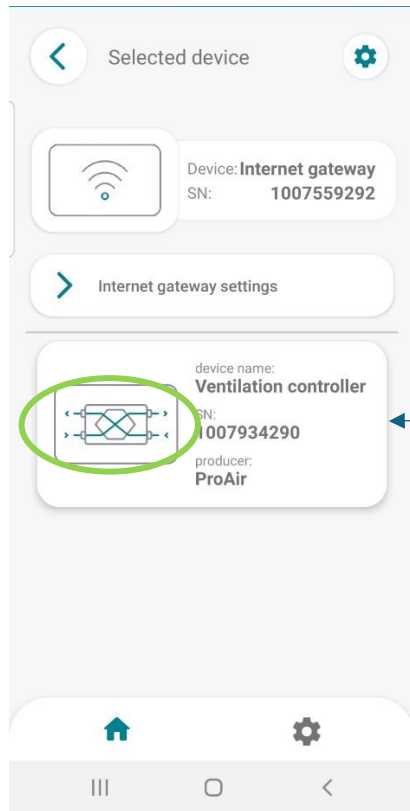
The user can setup the touch panel to sound beeps when the panel is pressed, Beeps when there is an alarm fault, and also dim/brighten the LEDs



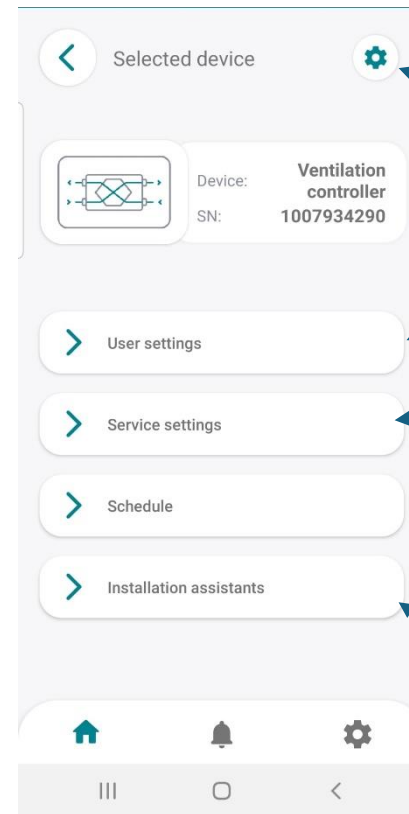
Touchpad Brightness, Volume and Alarm Noise Levels (Continued)



Ventilation Controller Settings



Ventilation Controller
This controls the PCB parameters for Users, ProAir Installers and ProAir Service



Settings – Update software to the PCB and take snap shots of logs (installer and service access only)

User Settings

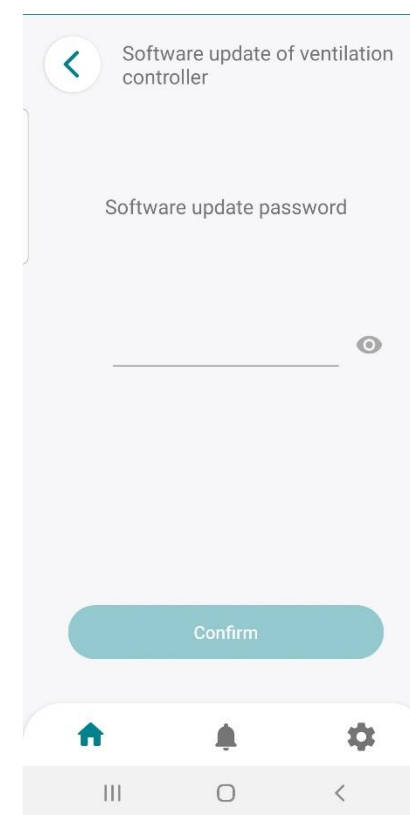
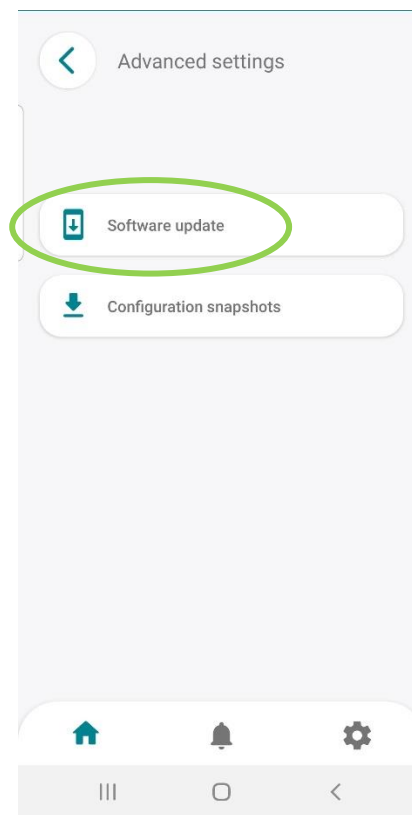
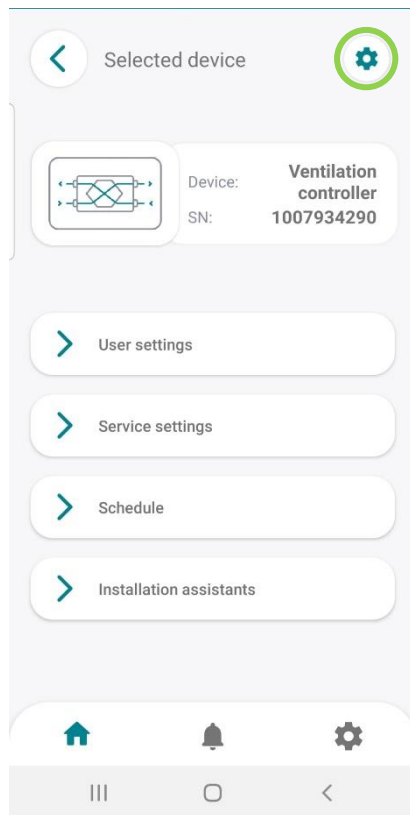
Installer/Service Settings Only
(Password Protected)

Schedule

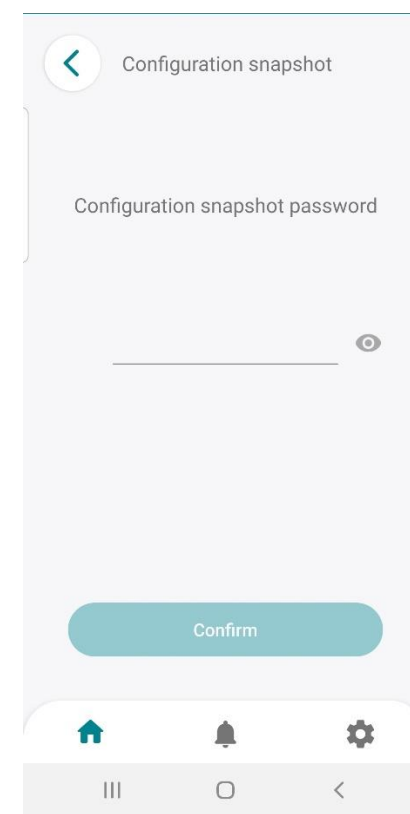
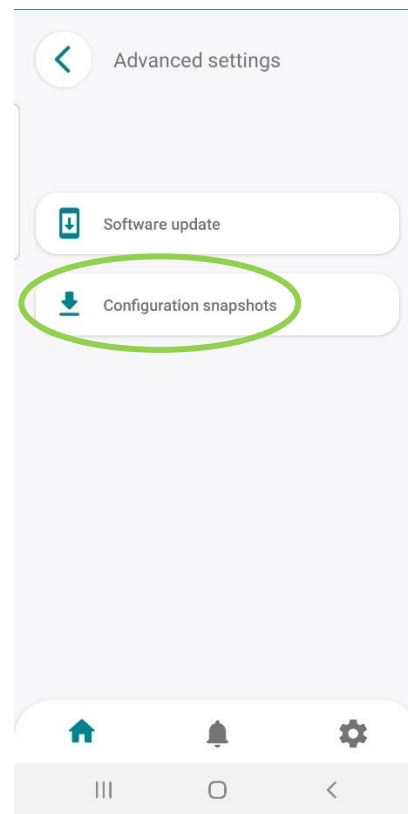
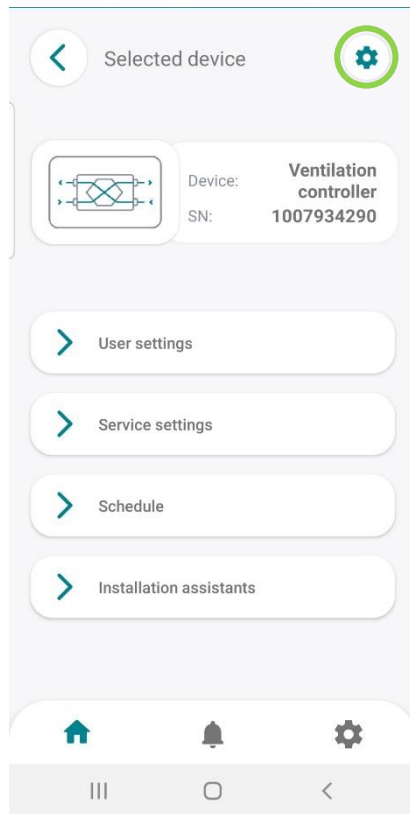
Installation Assistants
(Password Protected)

Ventilation Settings

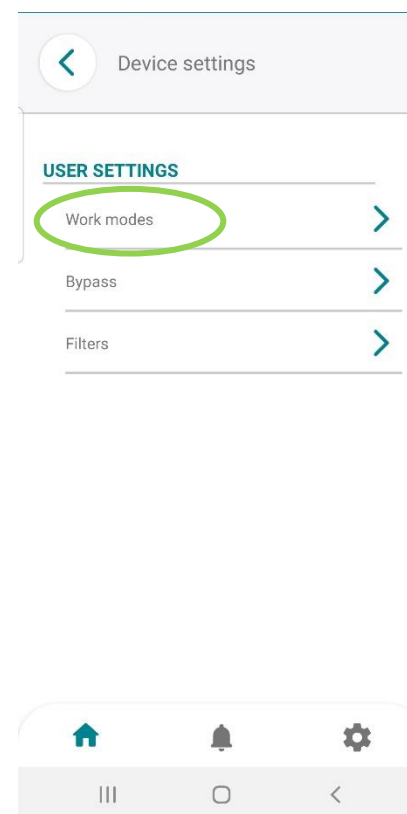
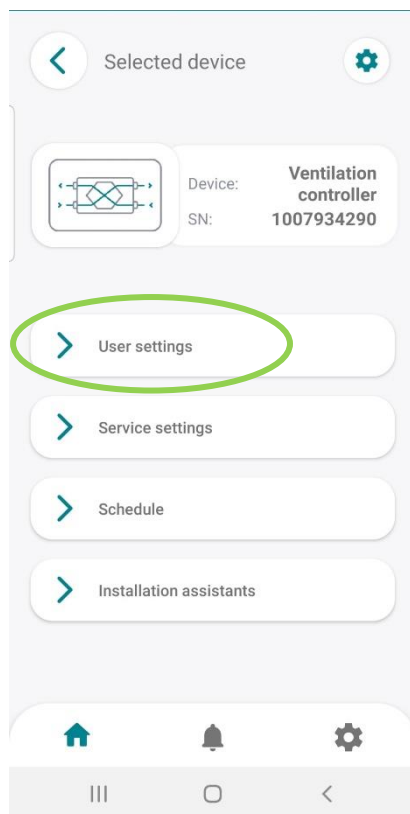
PCB Software Update



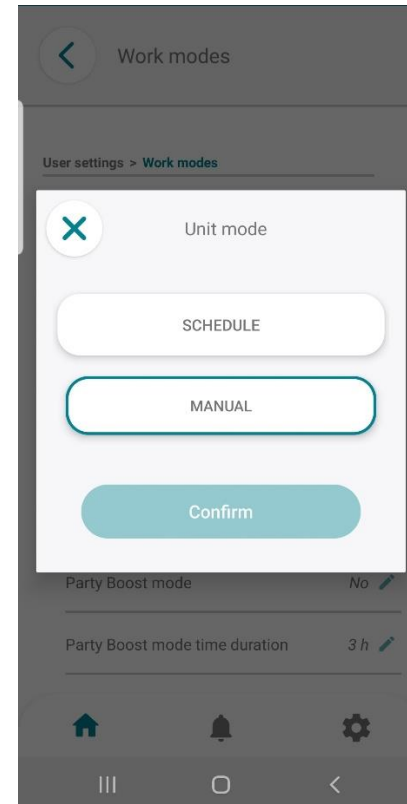
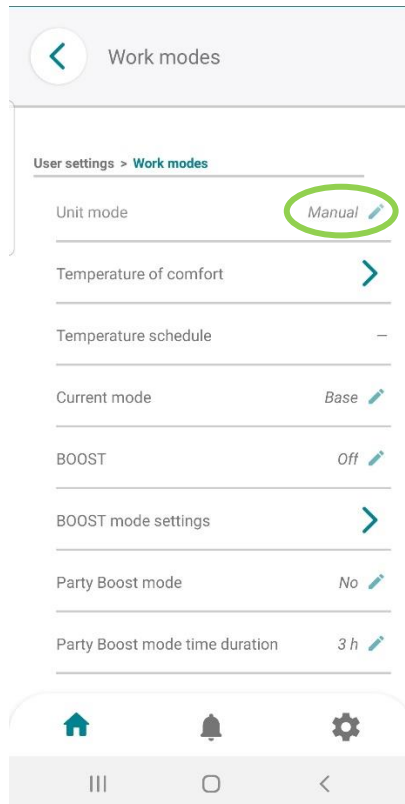
PCB Configuration Snapshot



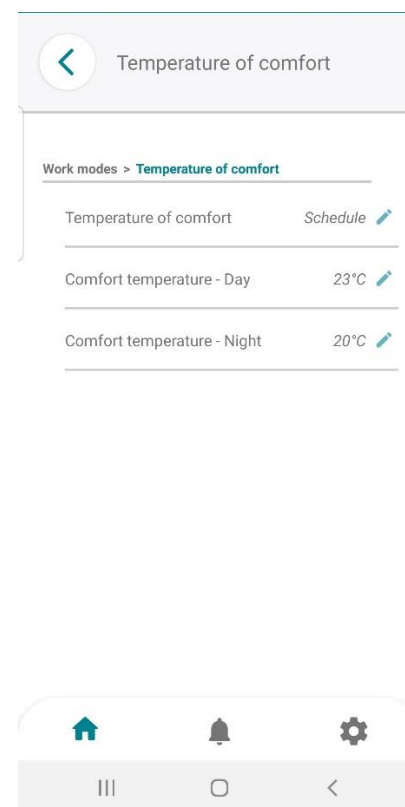
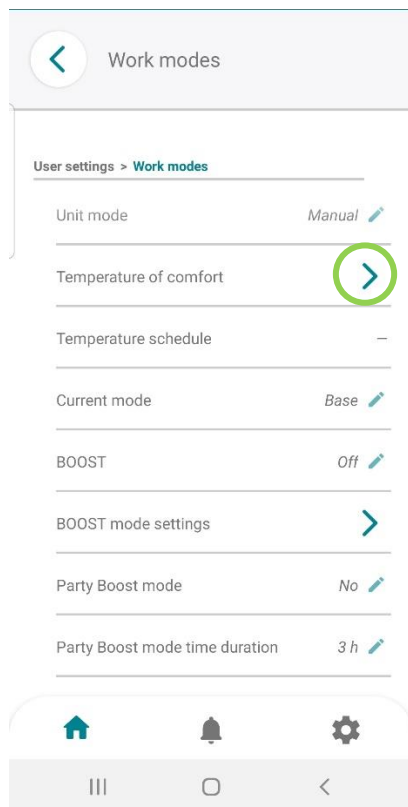
User Settings



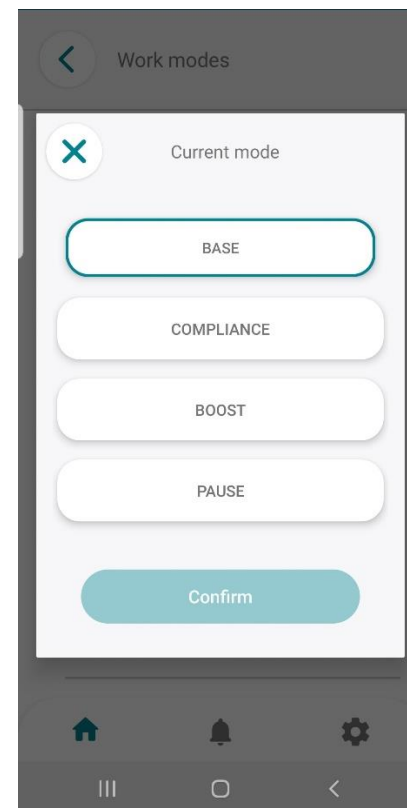
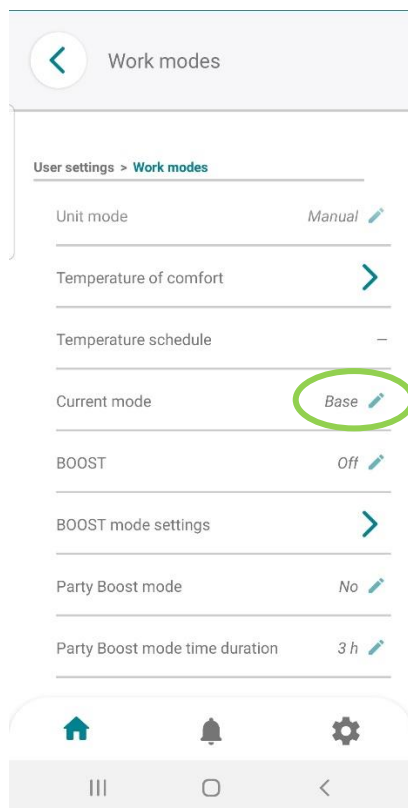
Unit Mode Settings



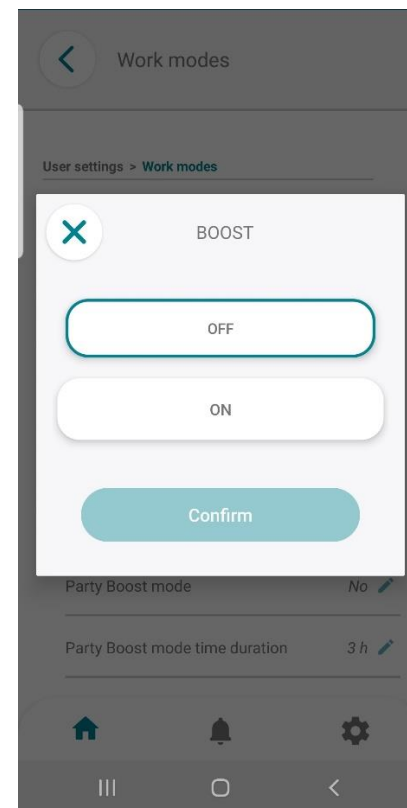
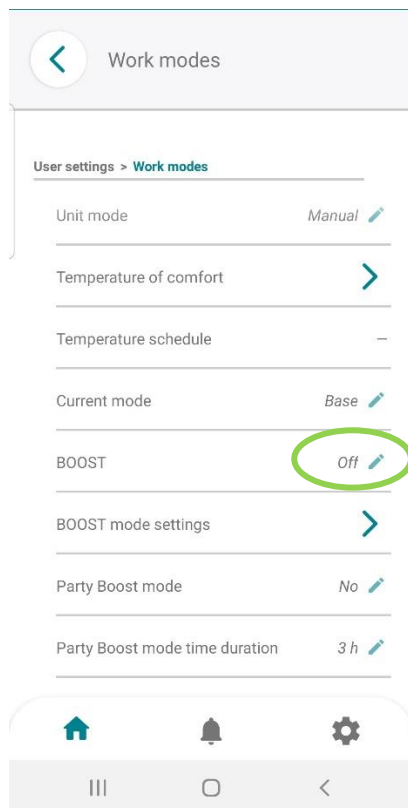
Temperature of Comfort Setting



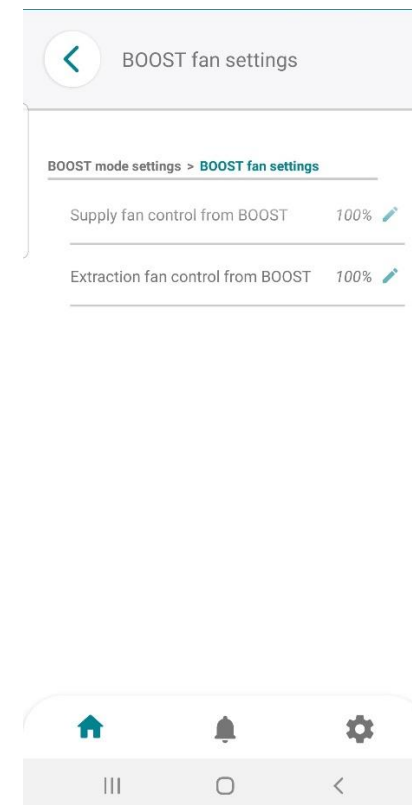
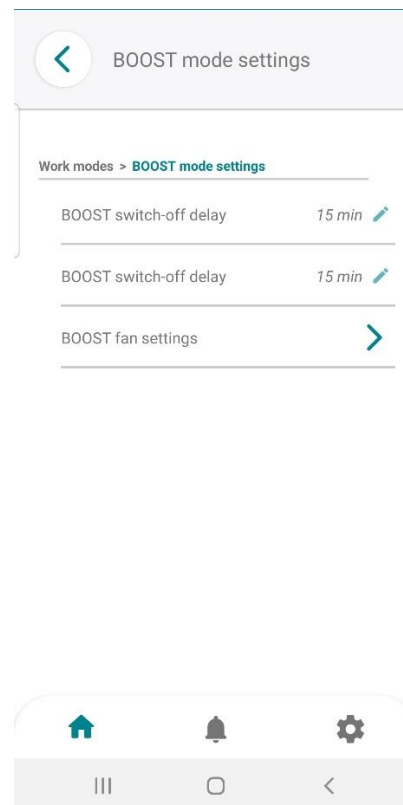
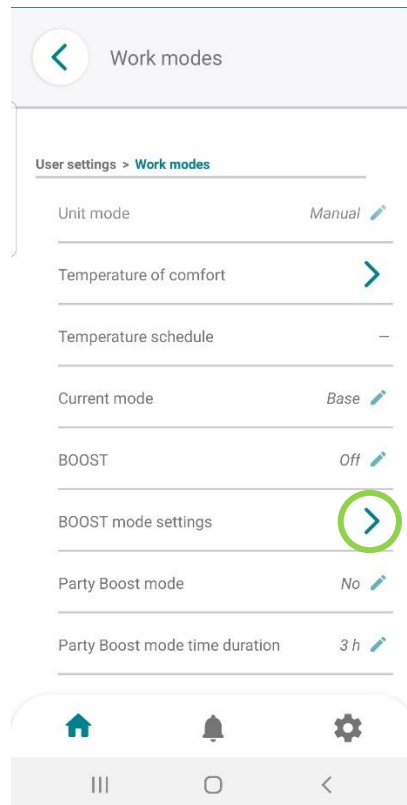
Current Mode Settings



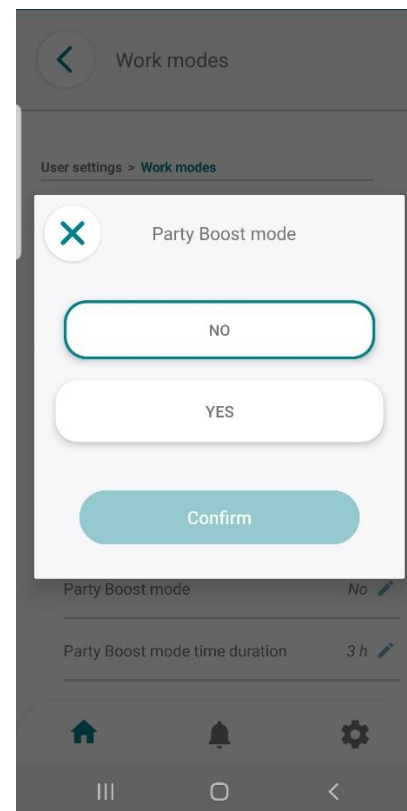
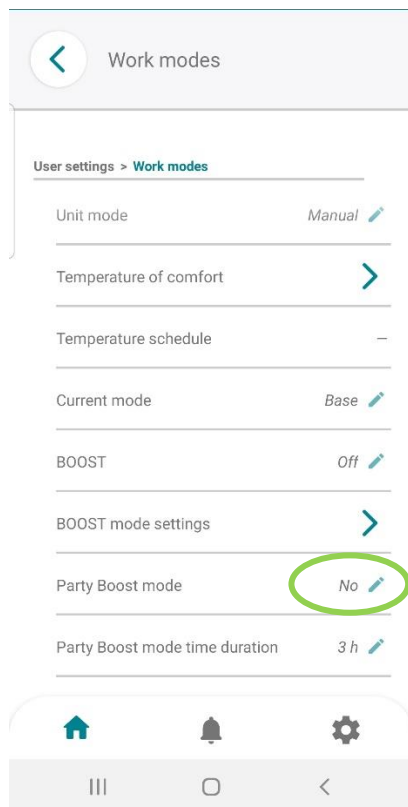
Boost On/Off



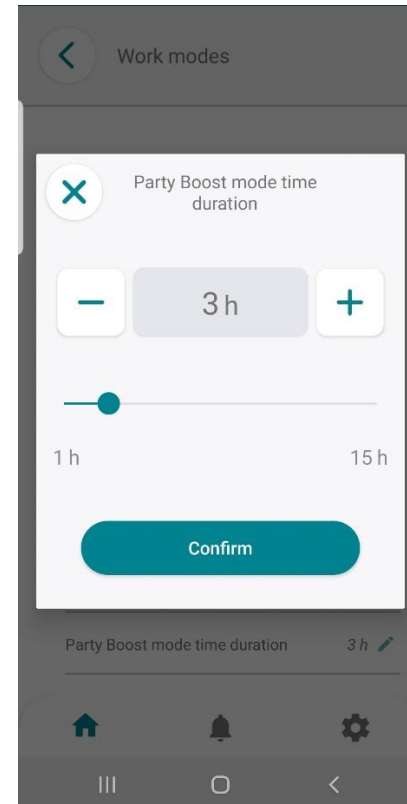
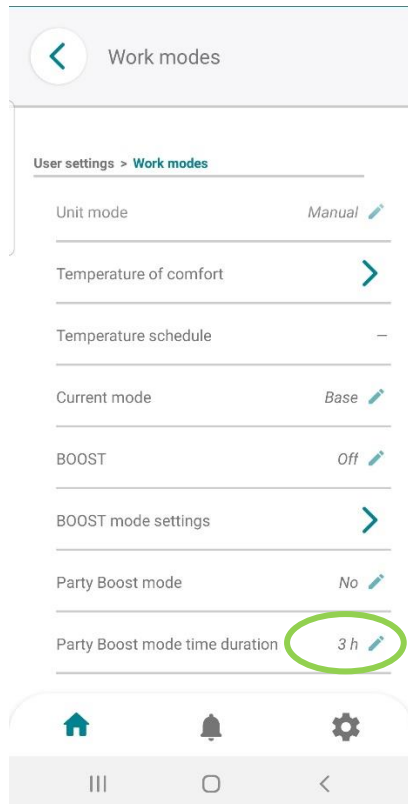
Boost Settings



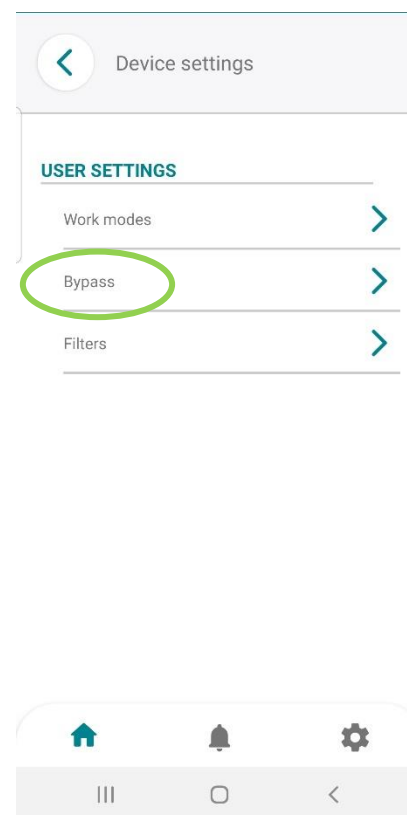
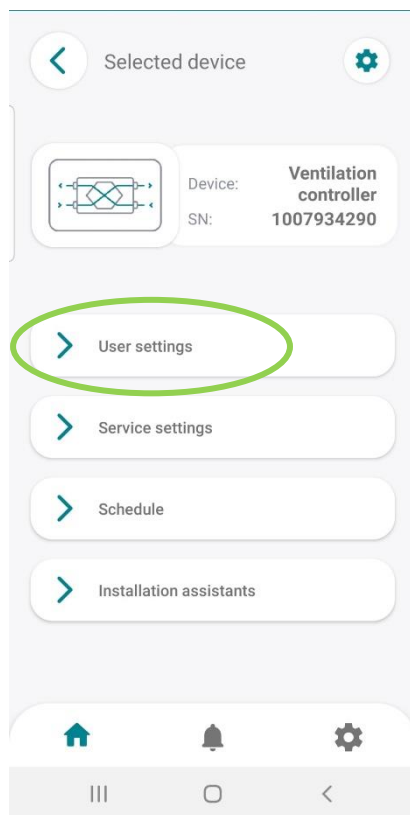
Party Boost On/Off



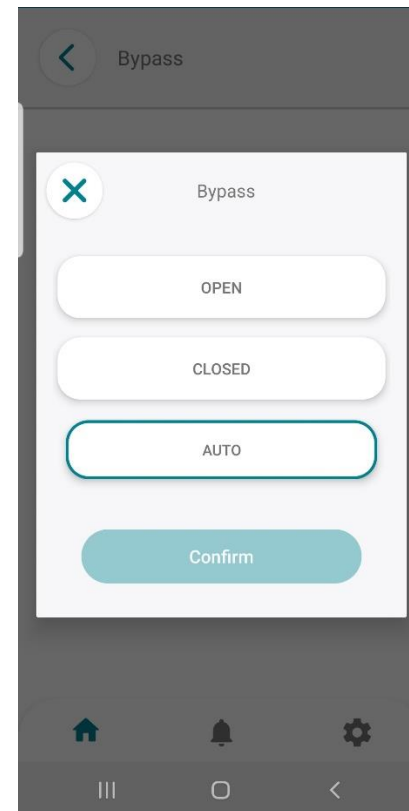
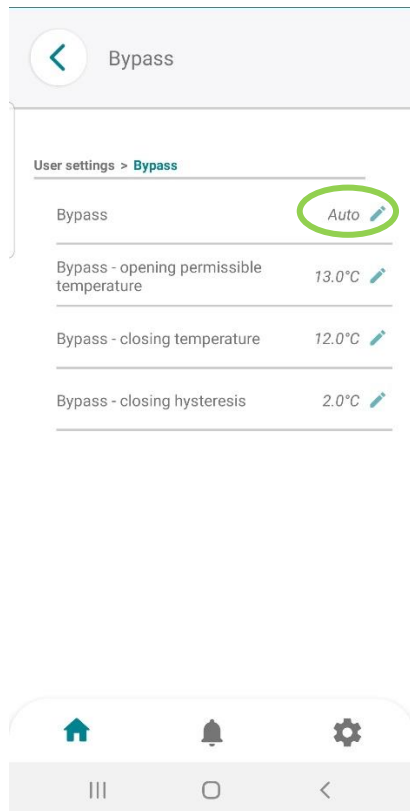
Party Boost Time Setup



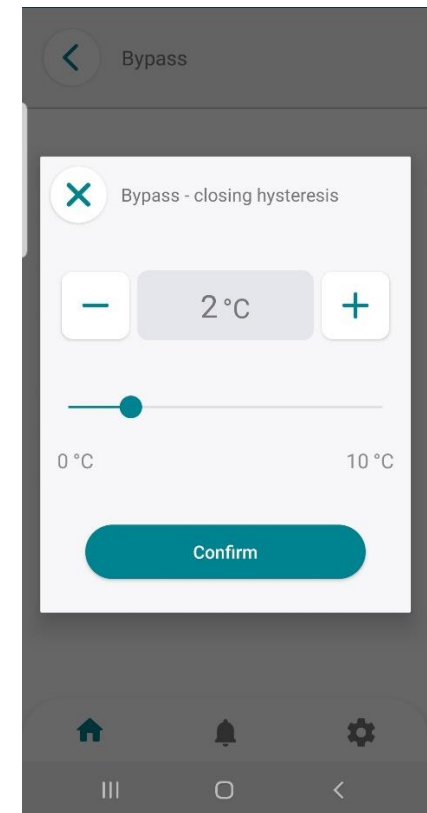
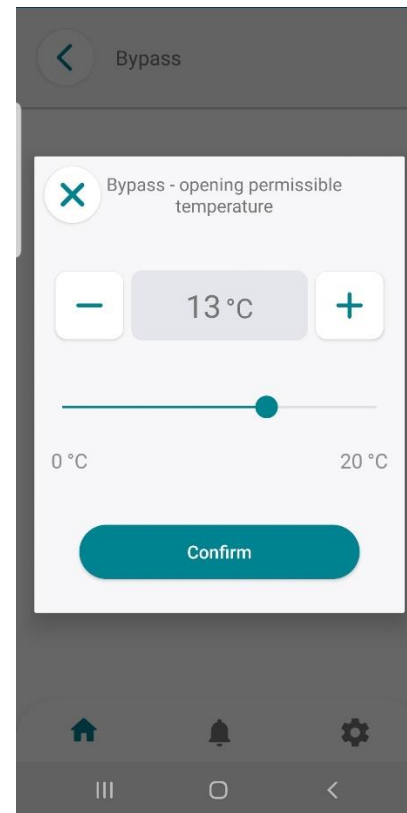
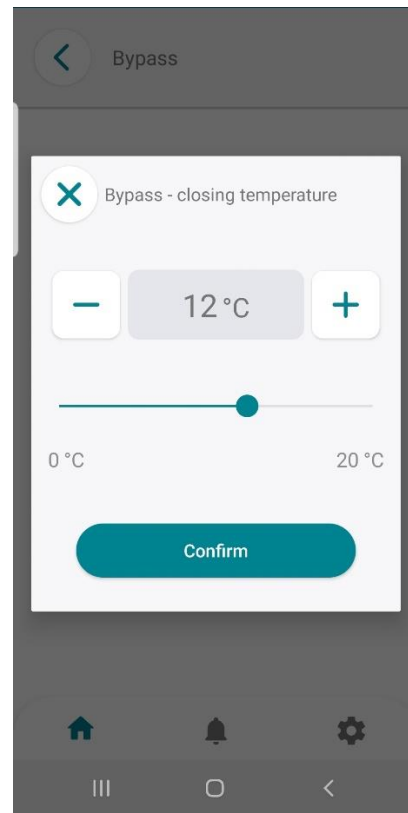
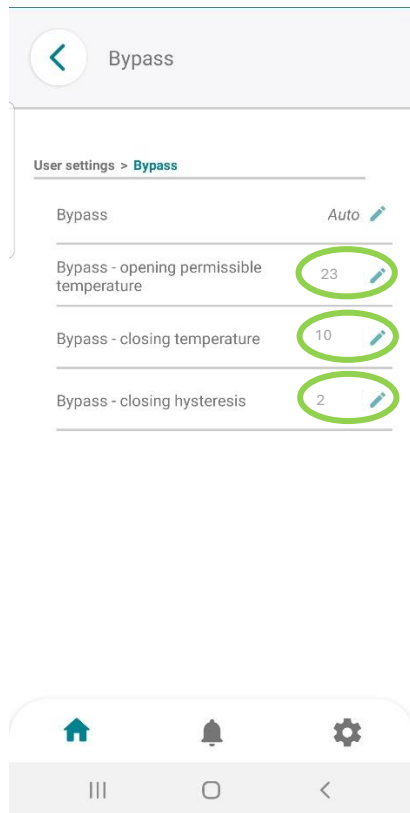
User Settings Bypass



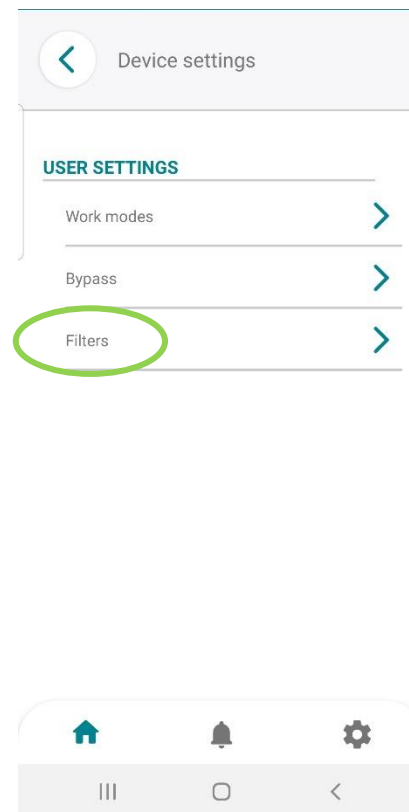
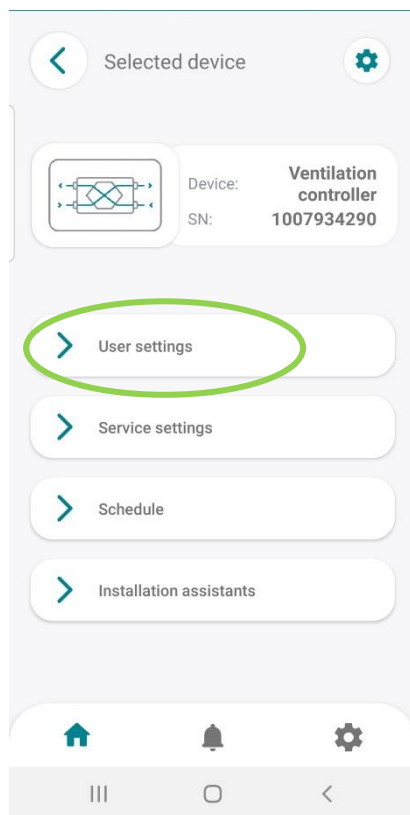
Bypass Settings



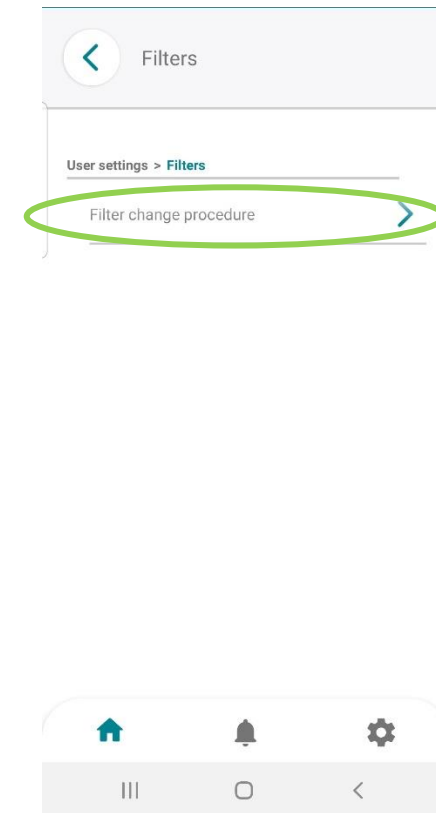
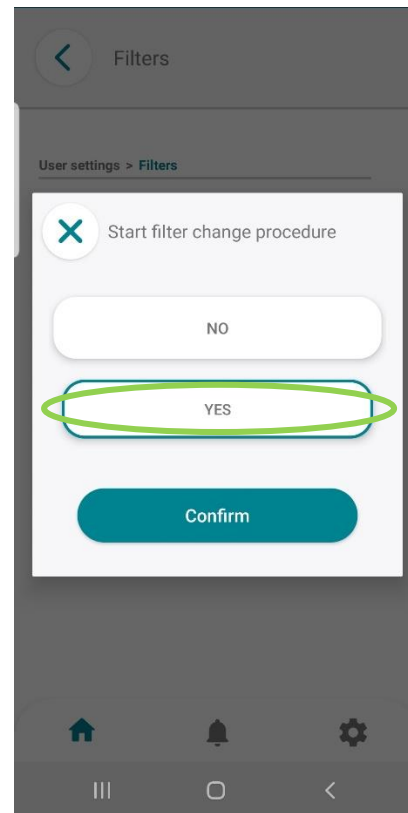
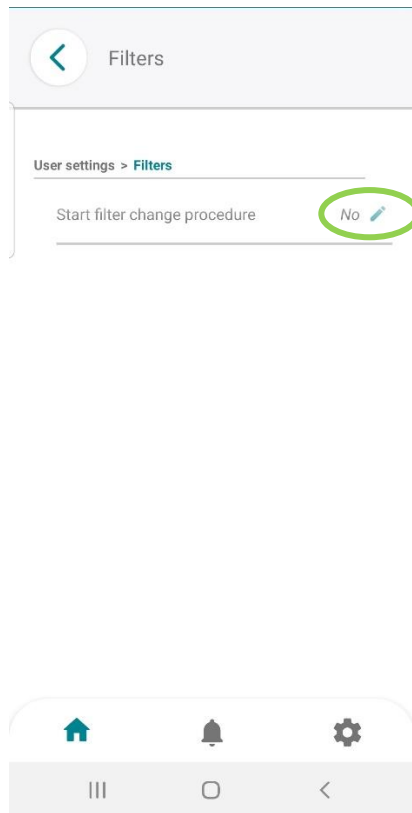
Bypass Auto/Open/Closed/Set Points



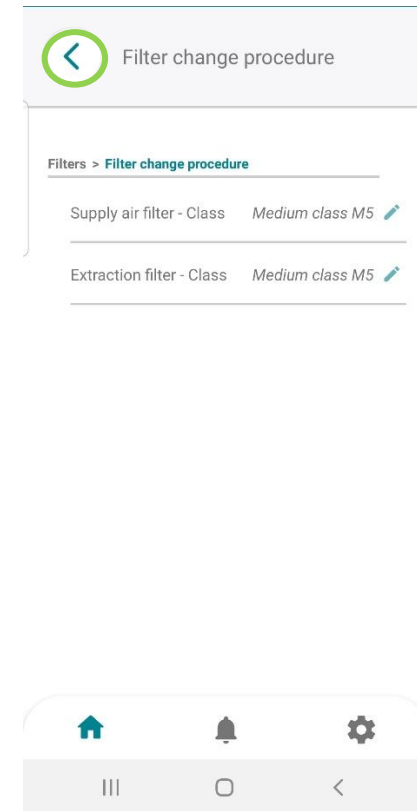
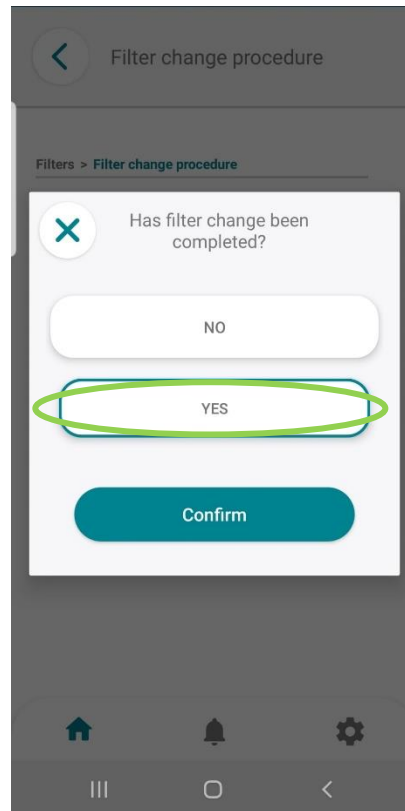
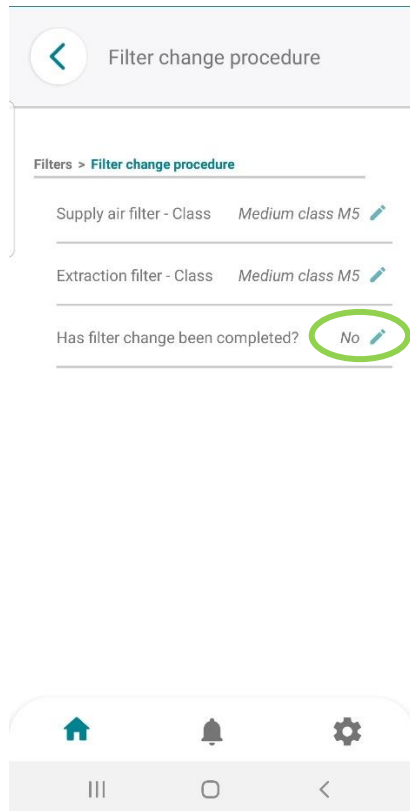
Filters Settings



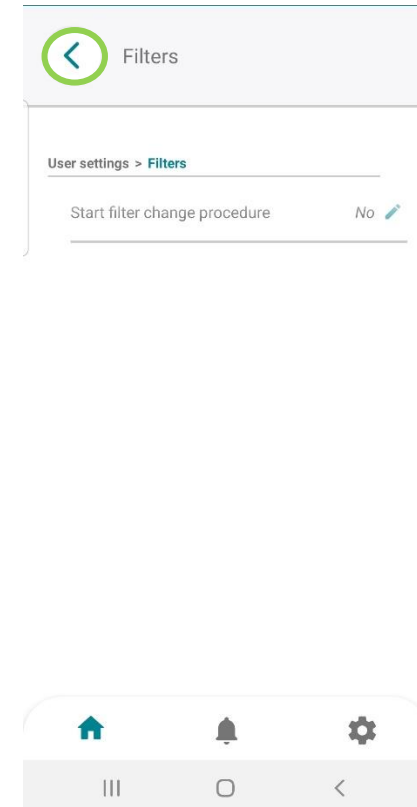
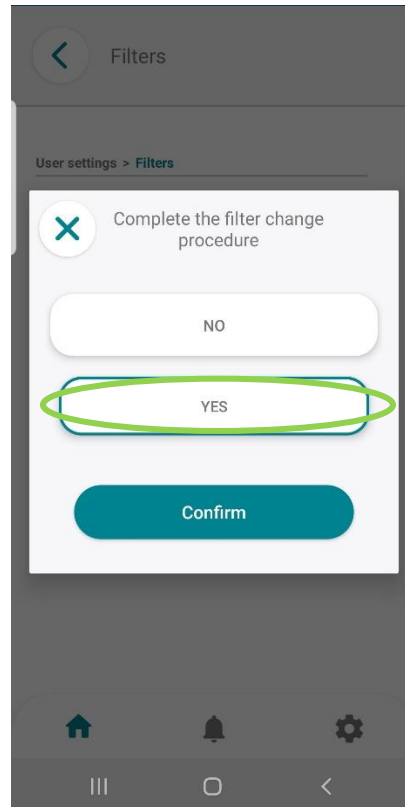
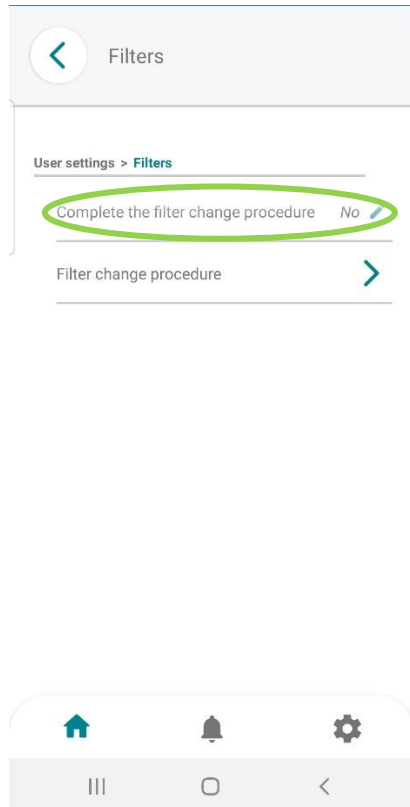
Filter Reset Procedure



Filter Reset Procedure (Continued)

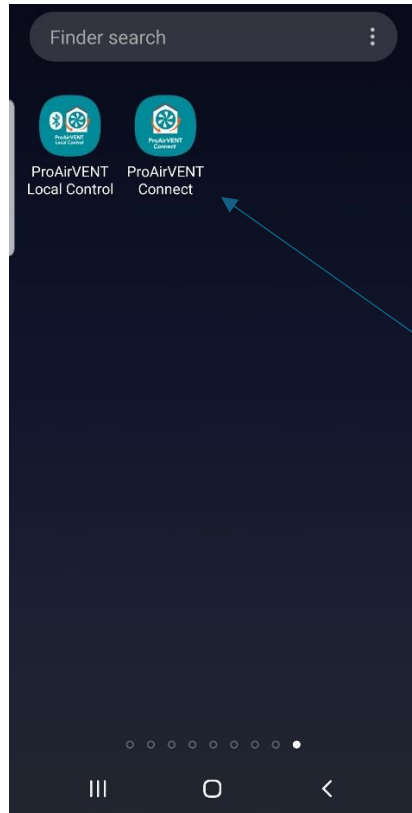


Filter Reset Procedure (Continued)

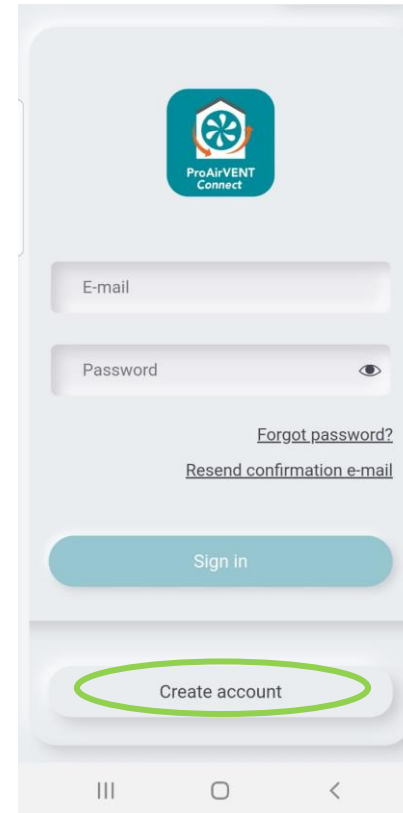


Cloud App Walkthrough

Create an Account



ProAirVent Connect App – This app is to be used to connect from anywhere in the world once the control is connected to the internet in the users house



Create Account

Create an Account (Continued)

ProAirVENT Connect

Sign in

E-mail

Password

digit, lowercase, capital letter, special character, 8-20 characters

*I declare that I have read and accepted the [terms and conditions](#) of the ProAir Cloud System.

*I declare that I have read [\(the information clause\)](#) on the processing of personal data

Consent to processing of personal data for marketing purposes ([read more](#))

Consent to receiving commercial information by e-mail and SMS/MMS ([read more](#))

Consent to marketing communication via telephone calls ([read more](#))

I'm not a robot

Sign up

Powered by plum

Enter your Email and setup a password

Tick the check boxes to proceed

Select all Images with **bicycles**

Click verify once there are none left


VERIFY

Catcha screen to prevent Bots setting up accounts

Create an Account (Continued)


digit, lowercase, capital letter, special character, 8-20 characters

- *I declare that I have read and accepted the [terms and conditions](#) of the ProAir Cloud System.
- *I declare that I have read ([the information clause](#)) on the processing of personal data
- Consent to processing of personal data for marketing purposes ([read more](#))
- Consent to receiving commercial information by e-mail and SMS/MMS ([read more](#))
- Consent to marketing communication via telephone calls ([read more](#))


I'm not a robot  reCAPTCHA
Privacy - Terms

Sign up


EN



E-mail

Password 

[Forgot password?](#)
[Resend confirmation e-mail](#)

 Activation link has been sent to your e-mail address

Create account

After creating an account, verify the account via the link sent to your Email Inbox


Welcome to ProAir Cloud!

Your account is almost ready. To enjoy all the features of ProAir Cloud confirm your registration.


Confirm

Activation link:
<https://proairventconnect.ie/confirmsignup/dc00751f-a850-4435-8992-4e41a79700da/614340>


EN



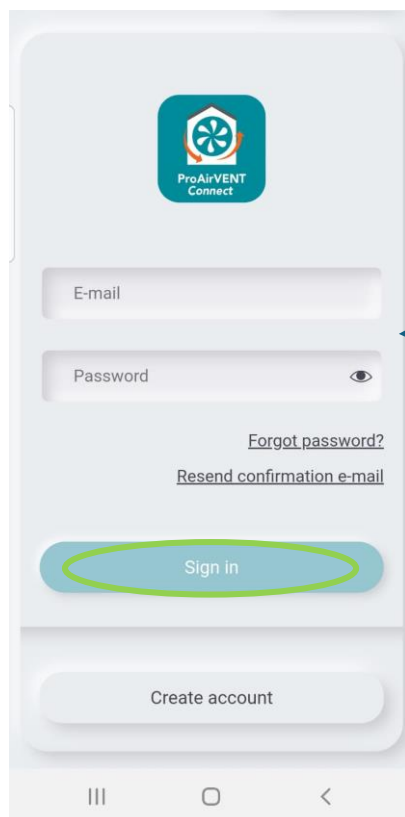
E-mail

Password 

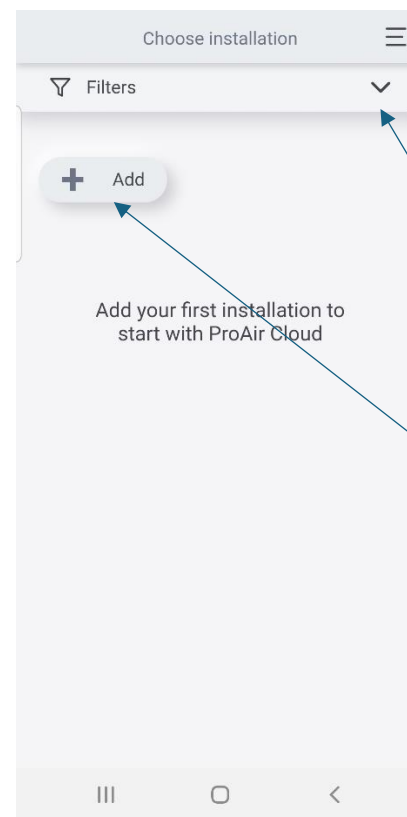
[Forgot password?](#)
[Resend confirmation e-mail](#)

 Account has been activated

Signing in to New Account

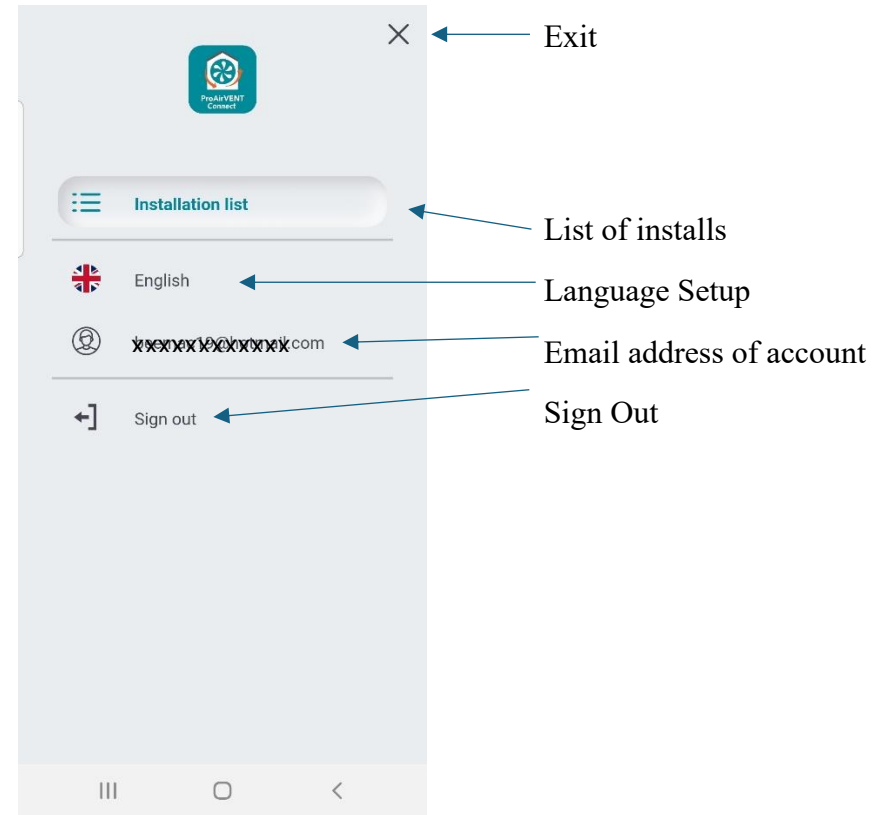
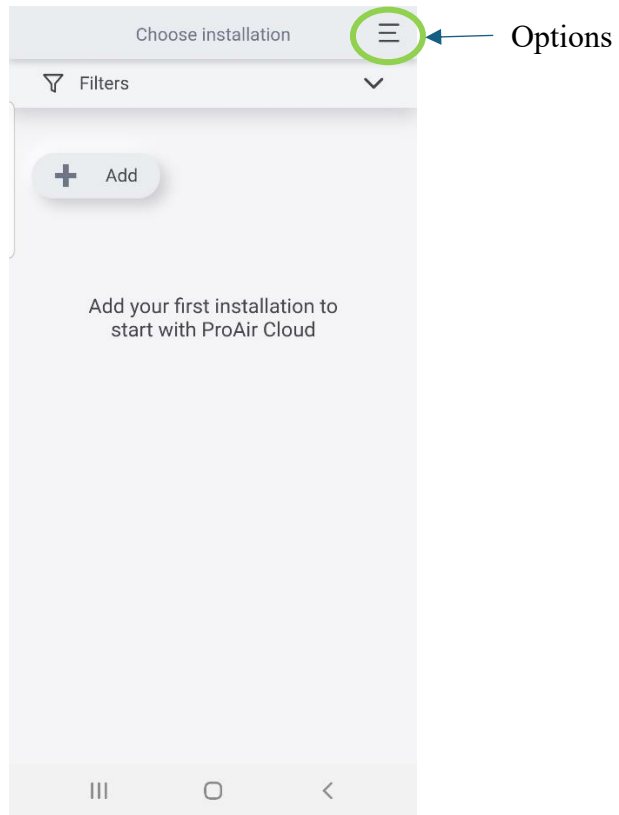


Sign in with your Email and the password setup earlier

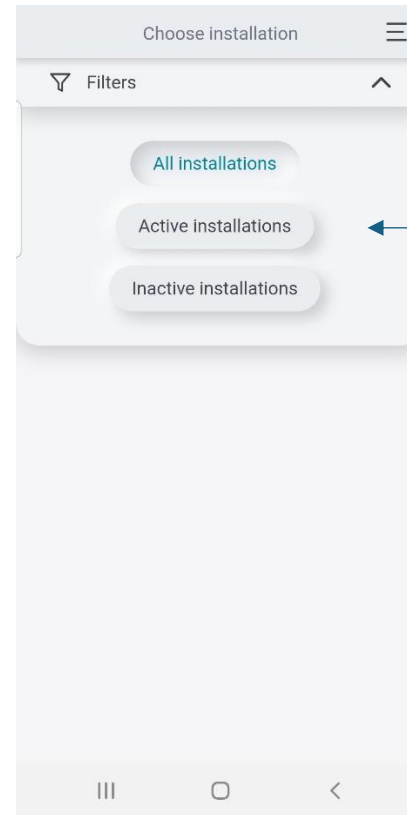
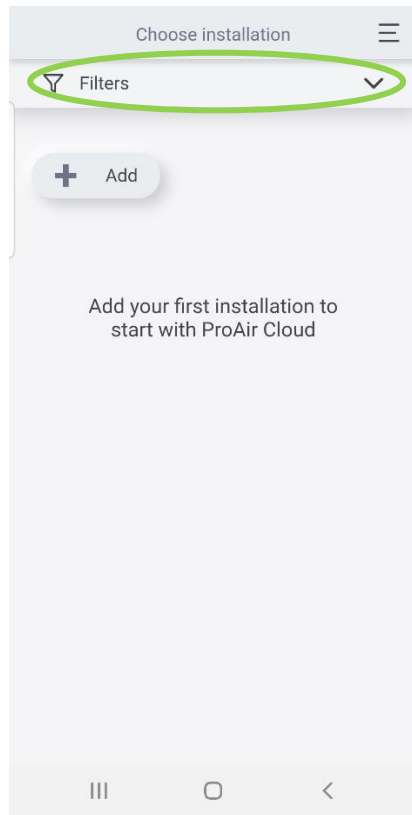


- List of installs
- Language Setup
- Email address of account
- Sign Out
- Filters – Shows if the connection is active or
- Add – This will add a device to the installation

Signing in to New Account (Continued)

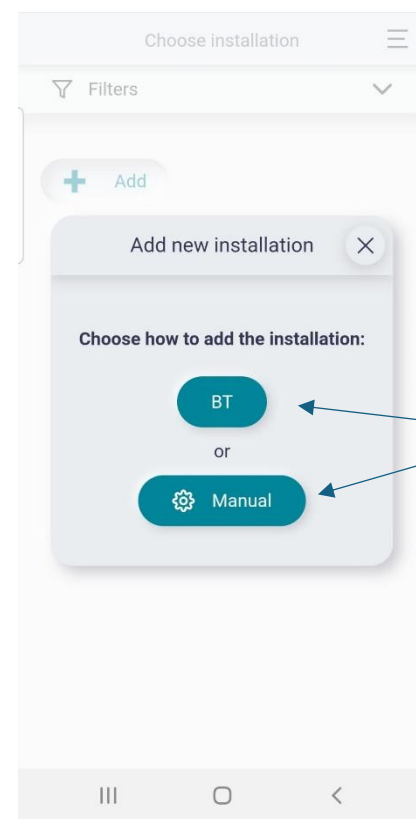
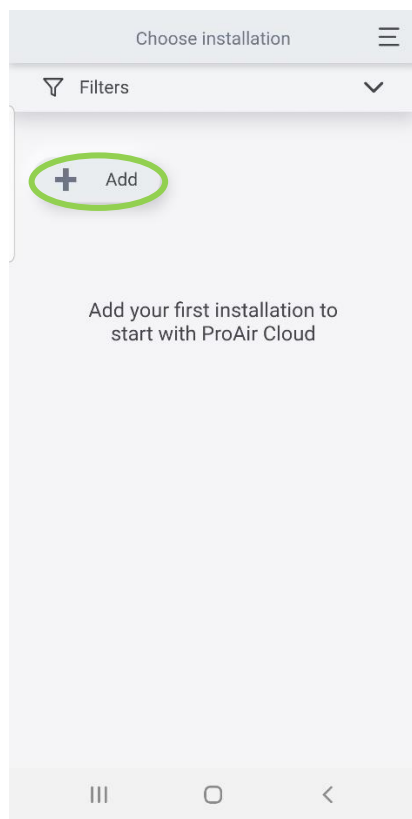


Signing in to New Account (Continued)



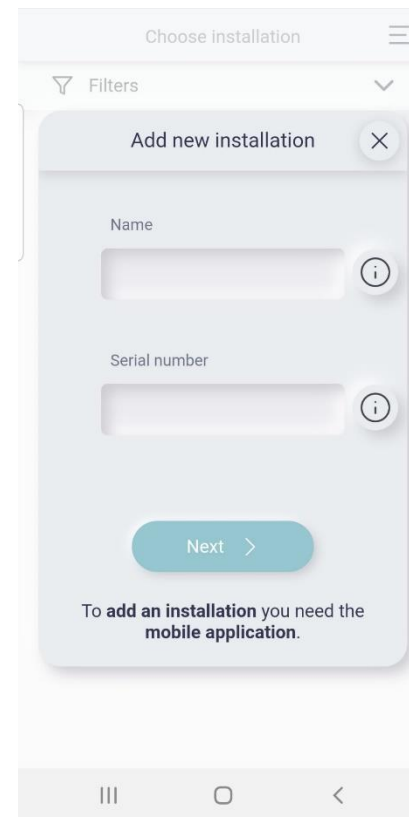
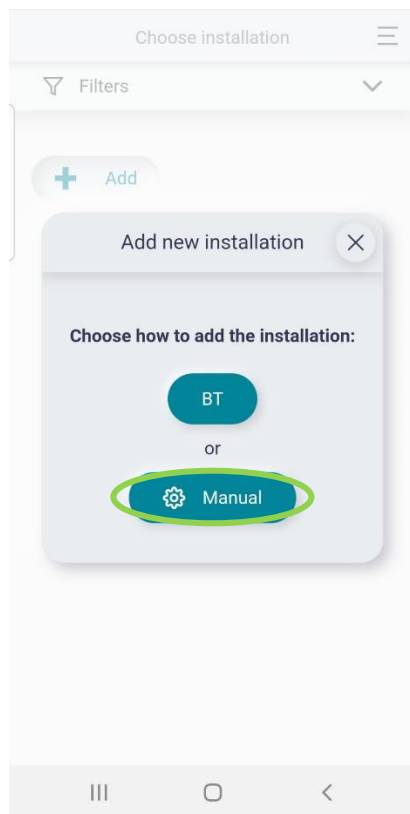
List of Installations

Adding a Device



Add install Manually or via Bluetooth

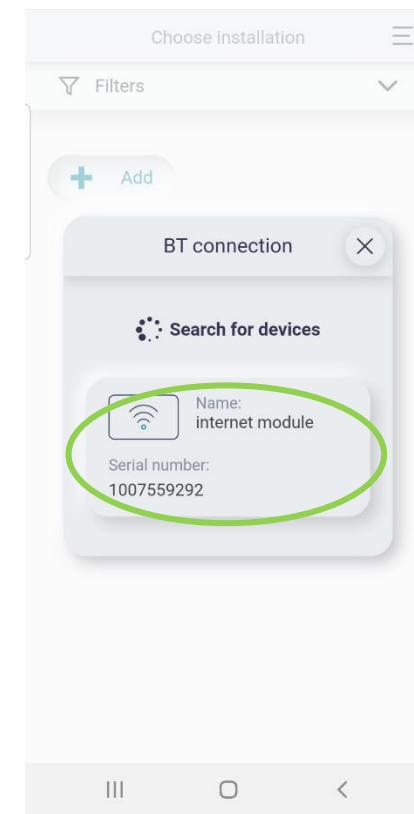
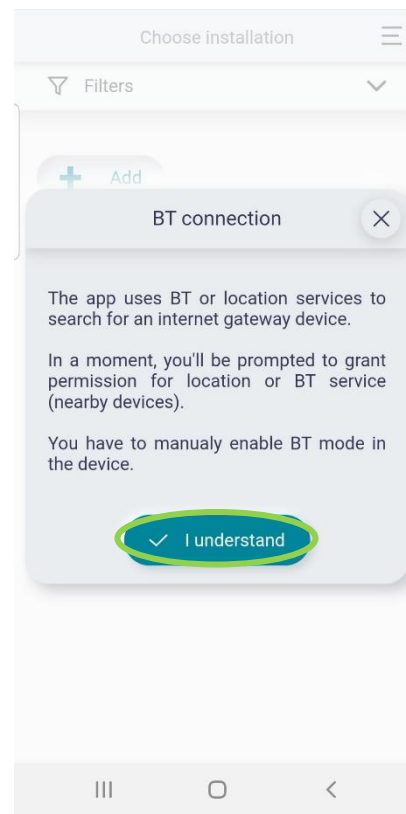
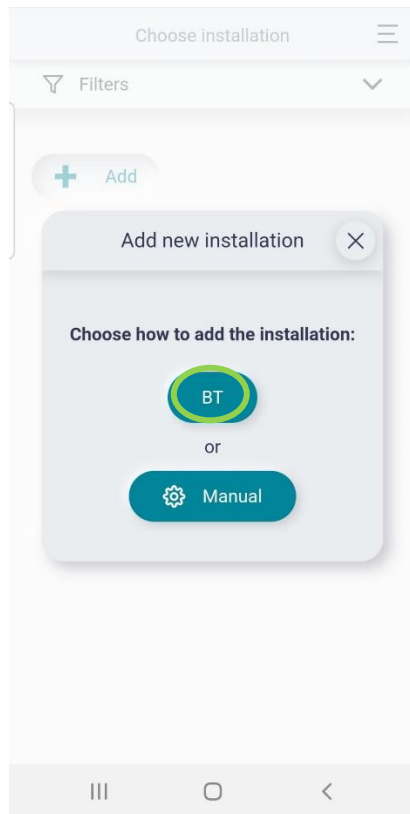
Adding a Device Manually



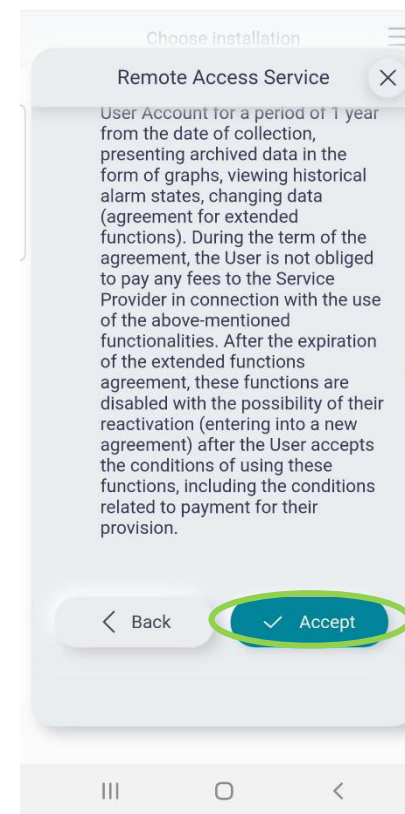
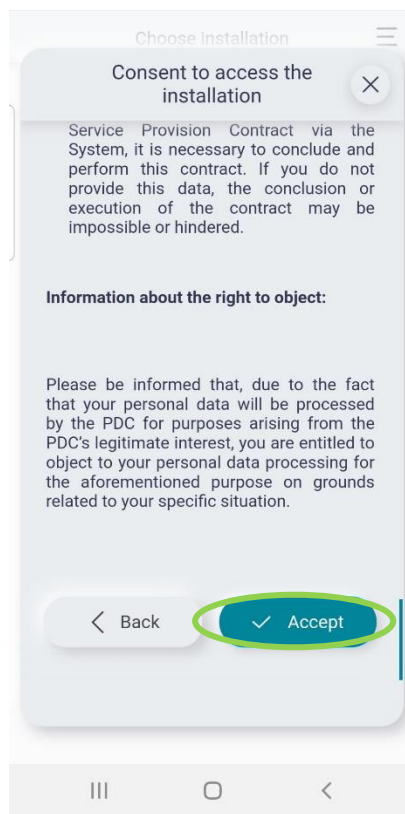
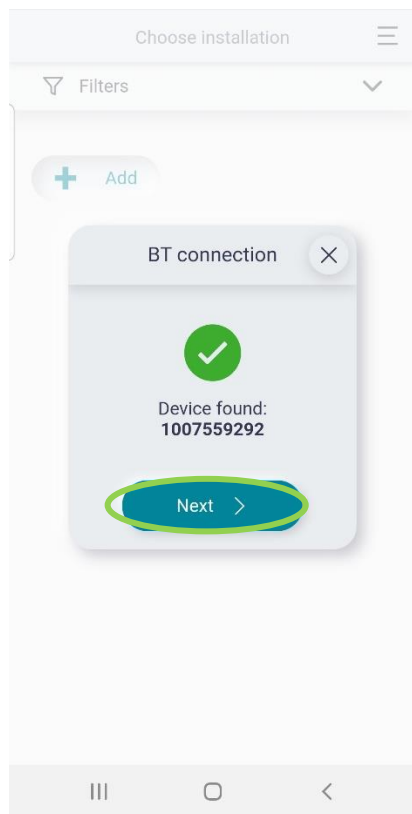
Add name of device and
the Serial Number of the
Device

This is the Internet

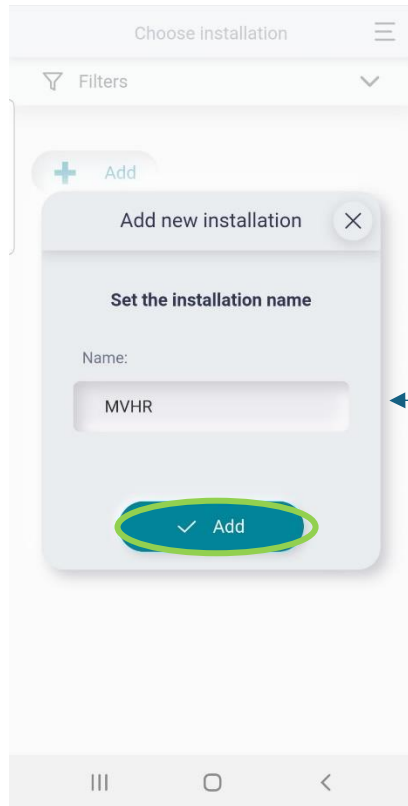
Connecting a Device Via Bluetooth



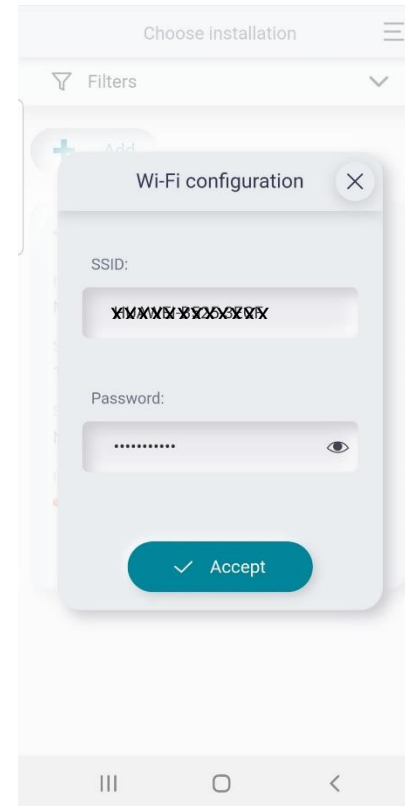
Connecting a Device Via Bluetooth (Continued)



Connecting a Device Via Bluetooth (Continued)

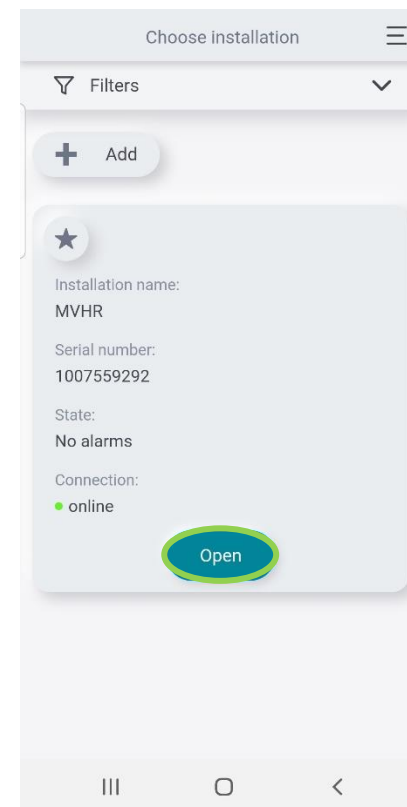
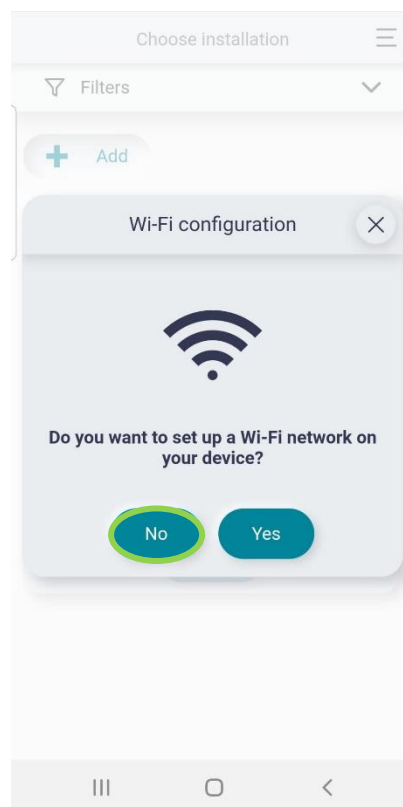
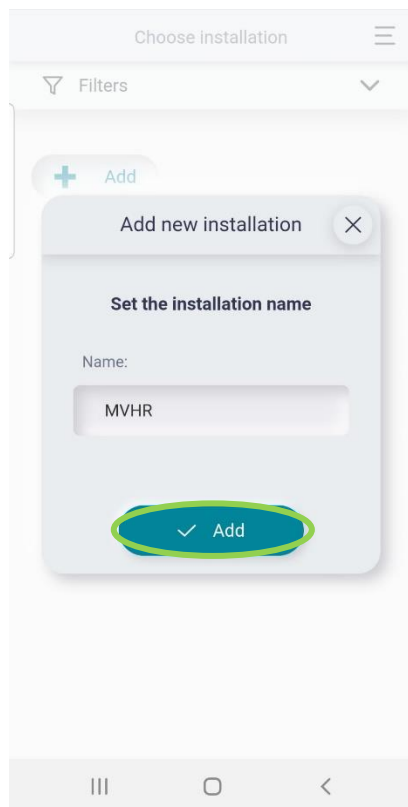


Setup a name for the Device and Add

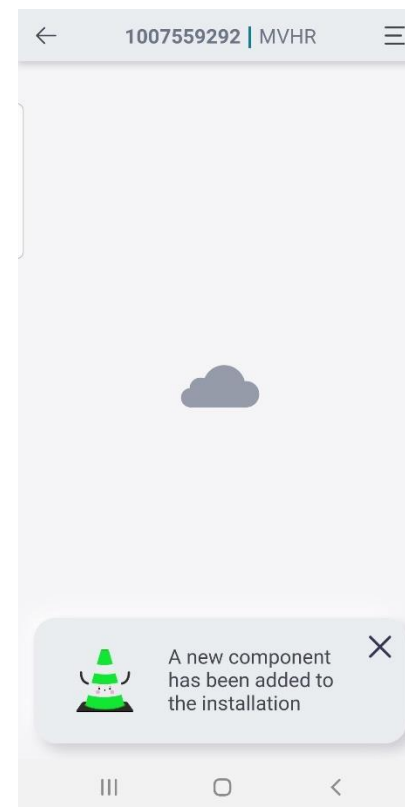
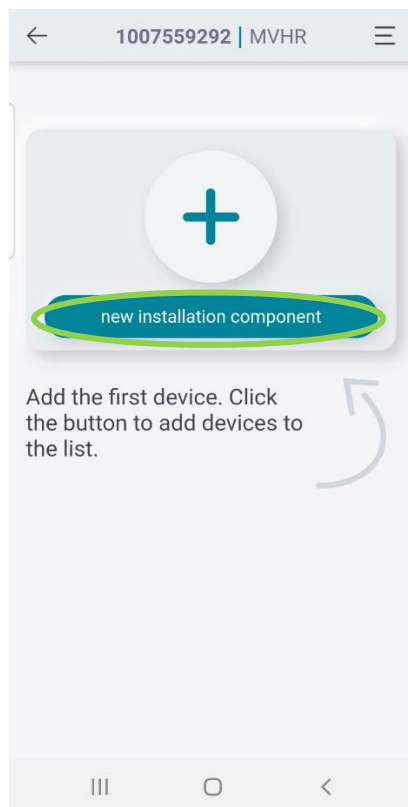


****Internet Connection** should be setup following instructions from Page 20, If this was setup prior to this step the Router and Password detail will appear here

Connecting a Device Via Bluetooth (Continued)



Connecting a Device Via Bluetooth (Continued)



Cloud App Home Screen

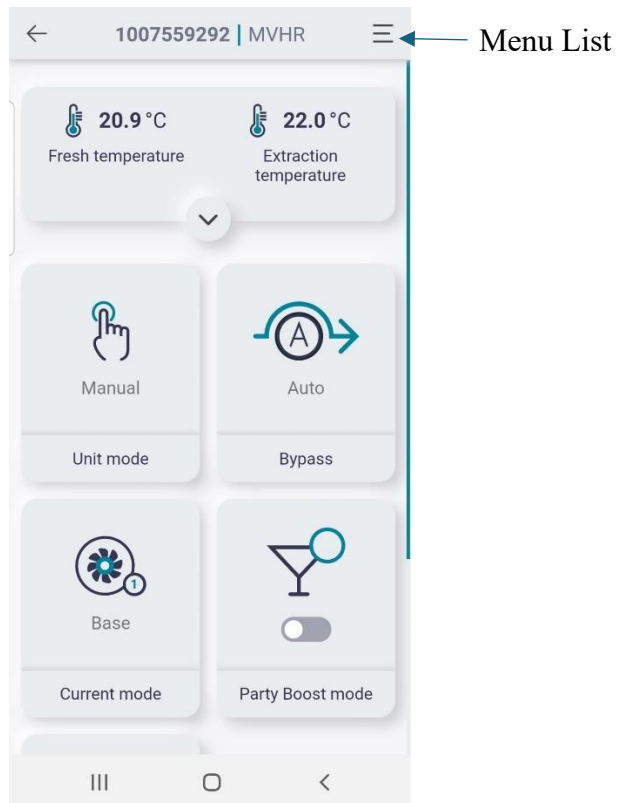
The image displays three screenshots of the ProAir Cloud App Home Screen, illustrating various data points and interactive elements. Each screenshot shows a top navigation bar with a back arrow, the unit ID '1007559292', and the system type 'MVHR'. The main content area is divided into several sections:

- Top Section:** Displays 'Fresh temperature' (20.9°C) and 'Extraction temperature' (22.0°C) in the first screenshot, and 'Fresh temperature' (17.0°C) and 'Extraction temperature' (17.2°C) in the second. These are labeled as 'Read Only Data'.
- Middle Section:** Shows 'Filters - depletion' (2%) and 'Supply' (25%) in the second screenshot, and 'Extract' (25%) and 'Alarm active' (indicated by an exclamation mark icon) in the third. These are labeled as 'Fan Speeds' and 'Alarm (If Any)'. The 'Alarm active' status is also labeled as 'Status of Unit'.
- Bottom Section:** Features 'Heat recovery' (indicated by a flame icon) in the second screenshot. Below this are 'Unit mode' (Manual/Auto) and 'Bypass' buttons, and 'Current mode' (Base/Party Boost) buttons. These are collectively labeled as 'Interactive Tiles'.
- Bottom-most Section:** Shows 'Boost' (indicated by a fan icon and a toggle switch) in the third screenshot.

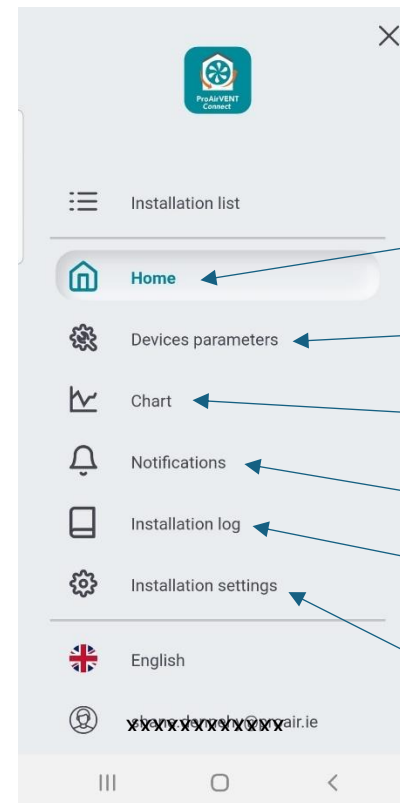
Annotations with arrows point to specific elements across the screenshots:

- Read Only Data:** Points to the temperature values.
- Temperatures:** Points to the 17.0°C and 17.2°C values.
- Filter Usage:** Points to the 2% and 25% filter depletion values.
- Fan Speeds:** Points to the 25% extract and supply values.
- Alarm (If Any):** Points to the 'Alarm active' indicator.
- Status of Unit:** Points to the 'Alarm active' indicator.
- Interactive Tiles:** Points to the Manual/Auto, Bypass, Base/Party Boost, and Boost buttons.
- Manual/Schedule:** Points to the Manual button.
- Auto Mode:** Points to the Auto button.
- Current Mode:** Points to the Base and Party Boost buttons.
- Party Boost:** Points to the Party Boost toggle switch.
- Boost:** Points to the Boost toggle switch.

Cloud Menu List



Menu List



Back to Home Screen

Home – Brings you back to the home screen

Device Parameters – User Settings – Refer Page 31 for

Chart – Gives a full log of hardware

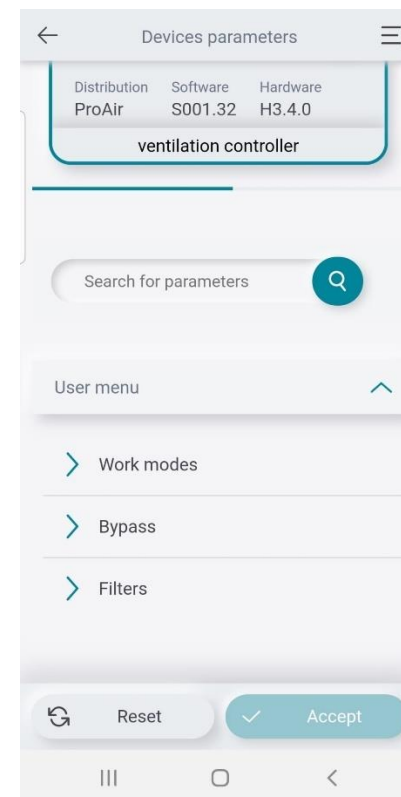
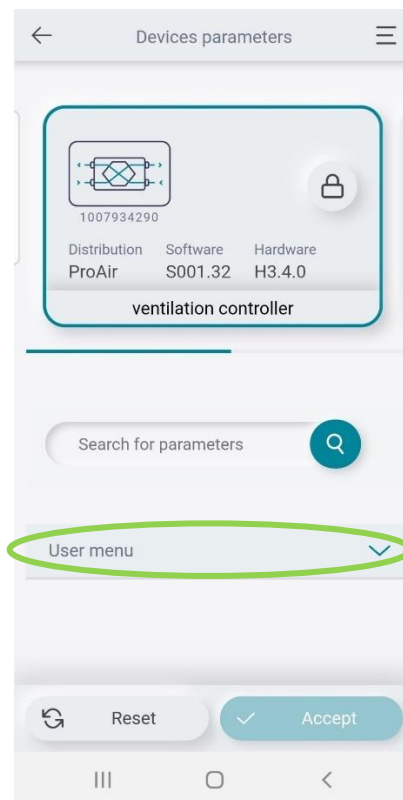
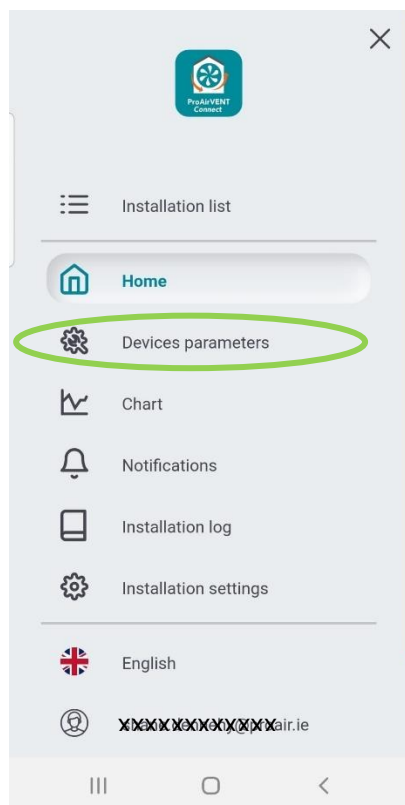
Notifications – Shows present and historical issues

Installation Log – For Notes

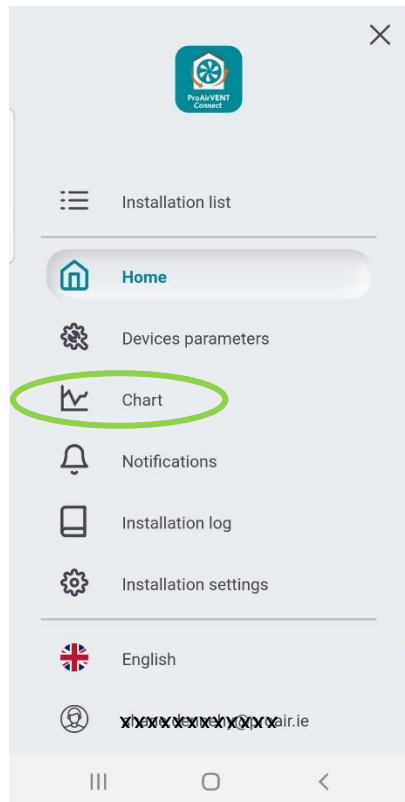
Installation Settings – For the User to add in contact details – (this is fully confidential and protected)

Cloud Device Parameters

Device Parameters – User Settings – Allows the user to access some Parameters – Refer to Page 31 for overview of all control setting Menus

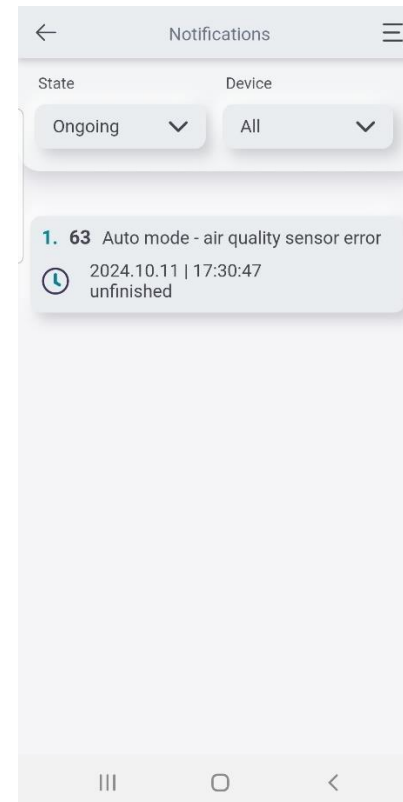
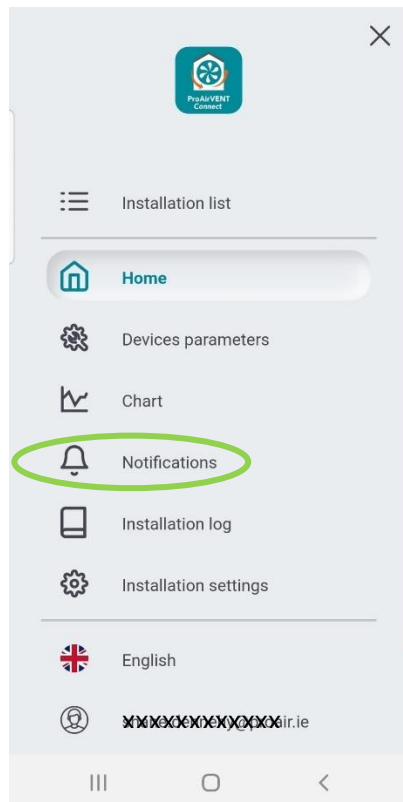


Cloud Charts



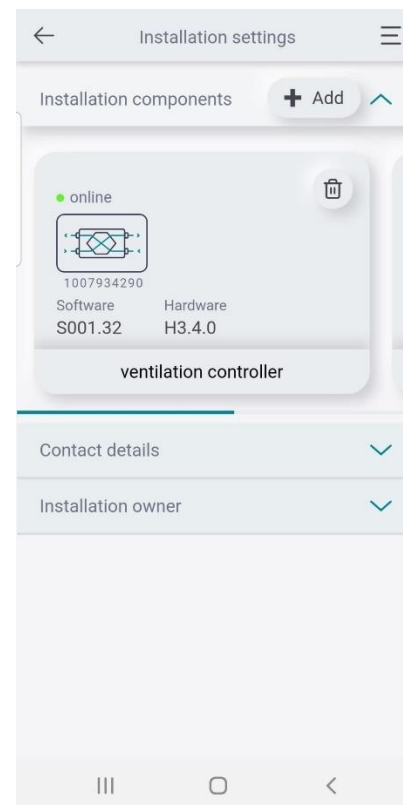
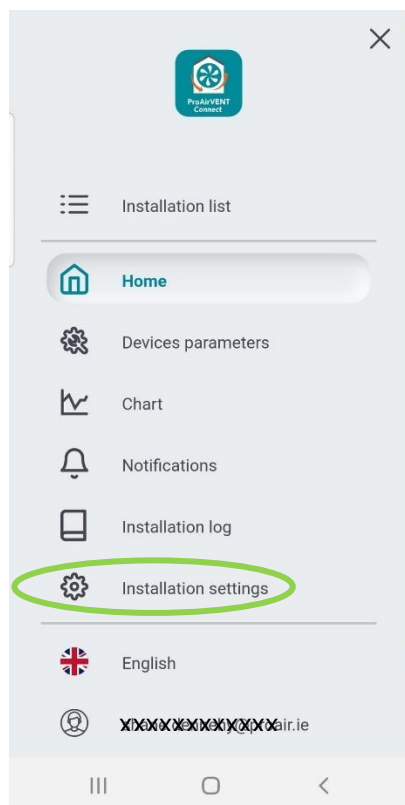
Gives a full log of the hardware Status and readings, full date search and choice of hardware to view

Cloud Alerts/Notification



Notifications – Shows present and historical issues

Cloud Installation Settings/Contact Details



Installation Settings – For the User to add in contact details – (this is fully confidential)

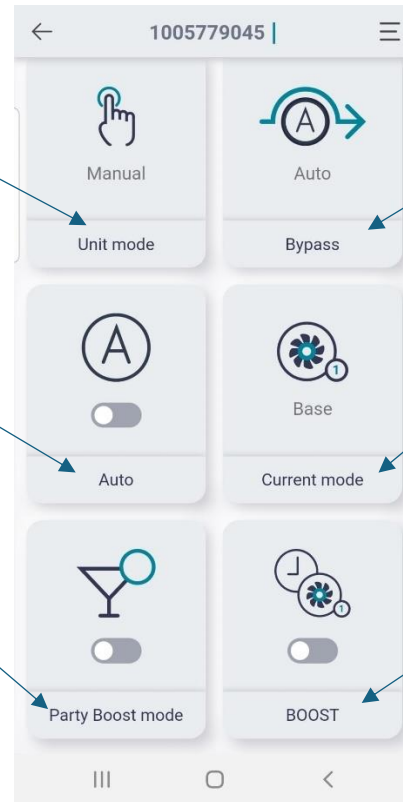
Cloud Home Tile Settings

Unit Mode – This can be switched between manual and schedule mode,

Manual runs the system at a set fan speed, Scheduler allows the user to setup different speeds on a 24/7 calendar

Auto – When activated the system will increase and decrease depending on the Co2/Humidity conditions the ventilation system reads

Party Boost Mode – The user can enable this feature if there is a big gathering in the house to keep the air fresh and clean – this is a timed boost (Default 3 hours)

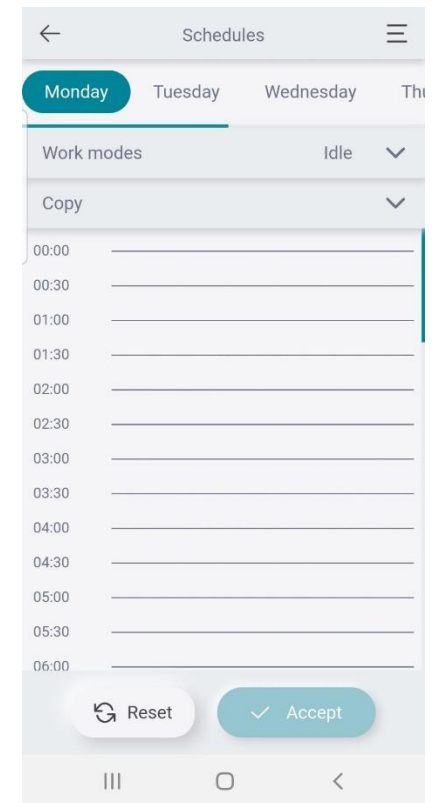
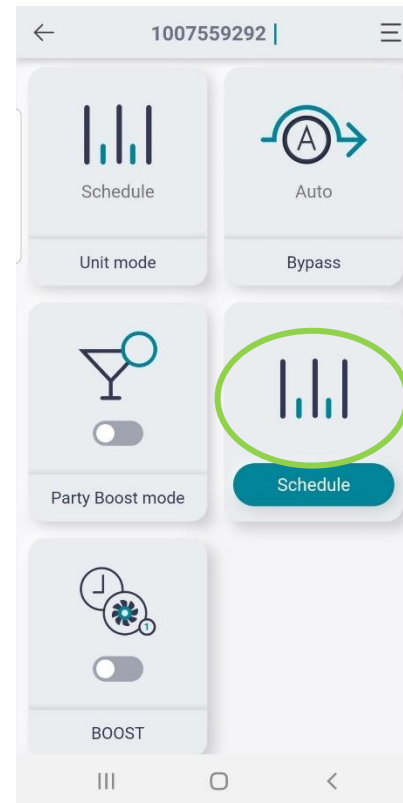
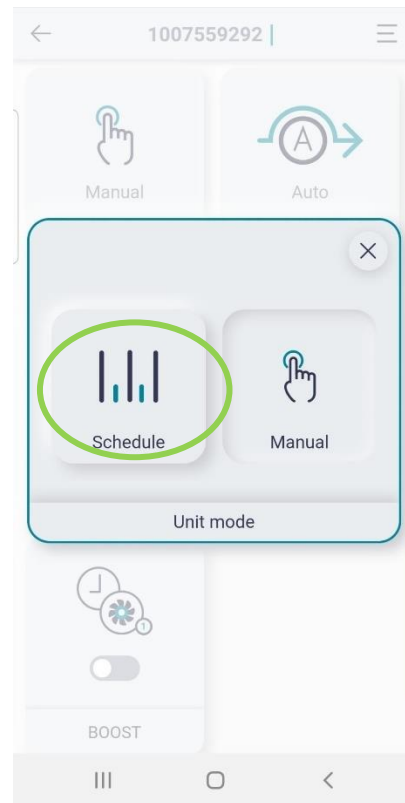
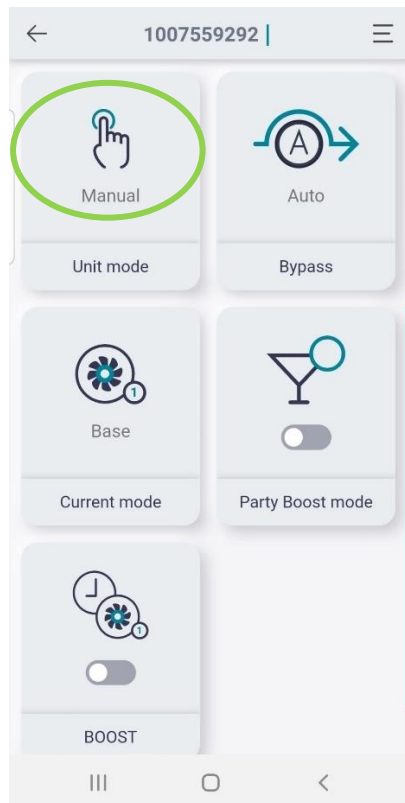


Bypass – The user can open (On) or Close (Off) the bypass manually or leave it in Auto mode to open and close automatically

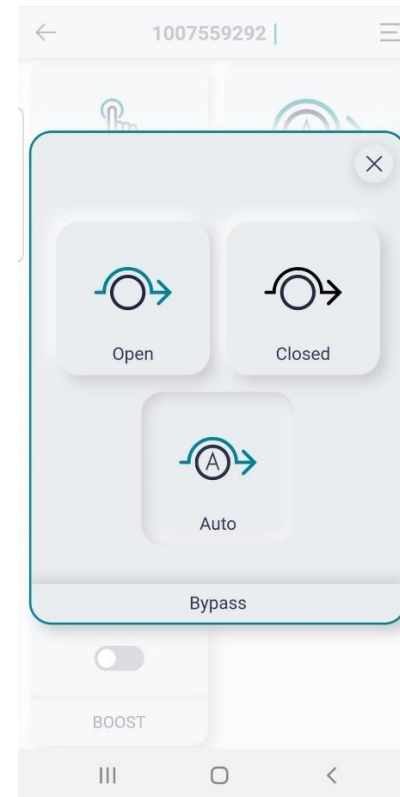
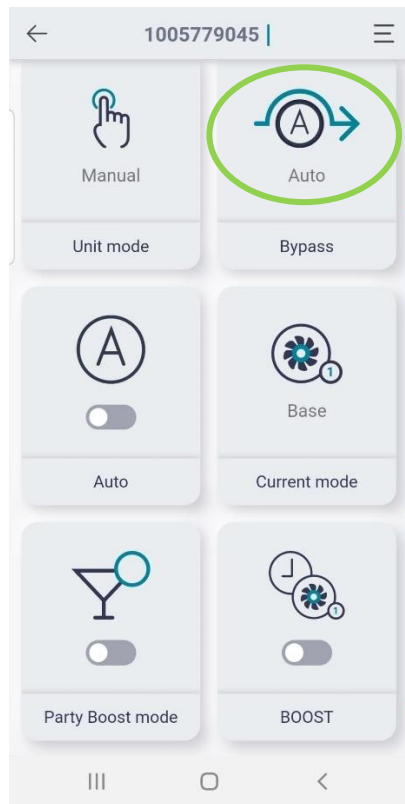
Current Mode – There are 3 speeds, Base is the ideal running state, Compliance is used for Validation, Boost is the high end speed to remove any extra condensation created by showers

Boost – The user can enable this boost on the app or via the Wireless switches fitted in the house (Default 15mins) ideally used when there is a shower being used

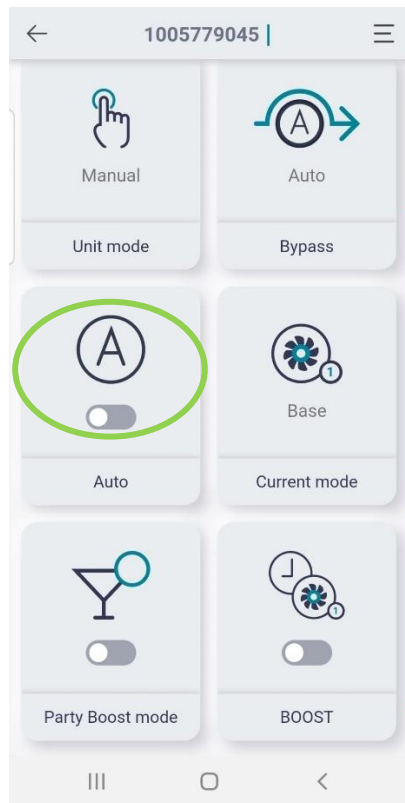
Cloud Schedule



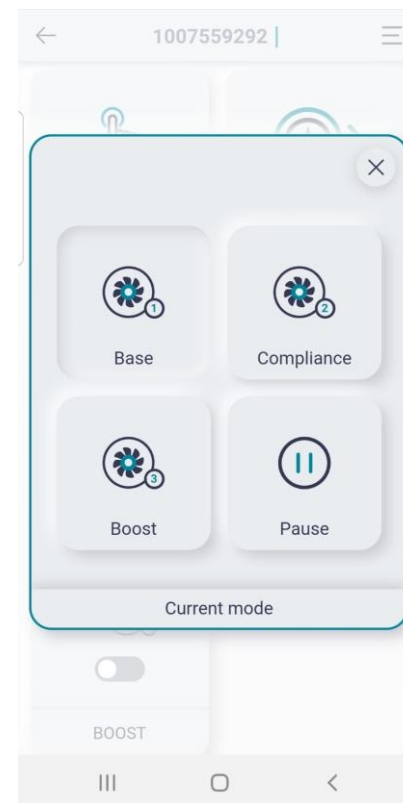
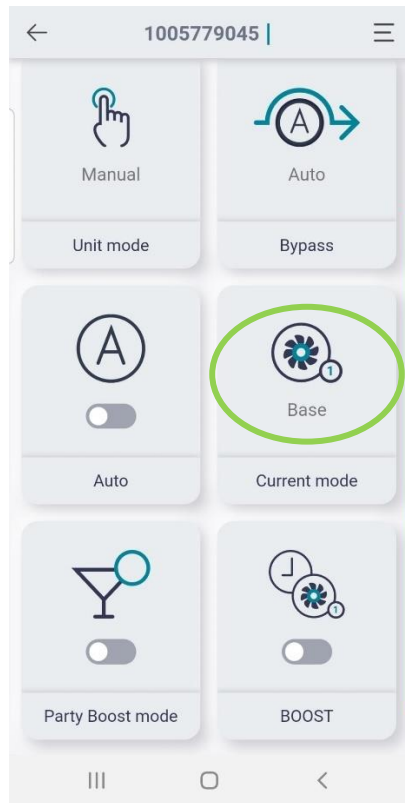
Cloud Bypass



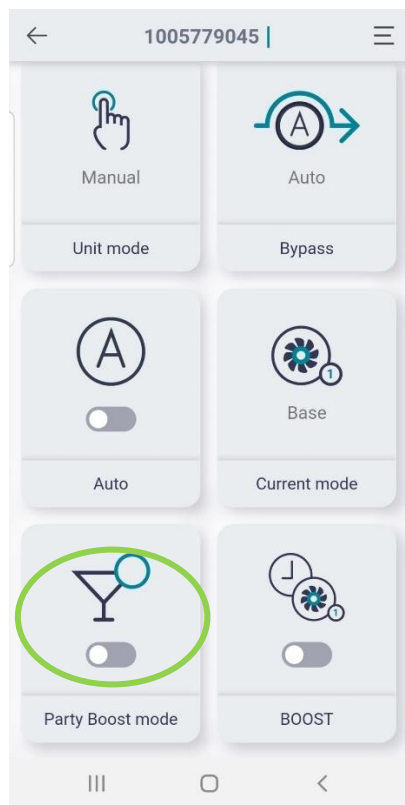
Cloud Auto



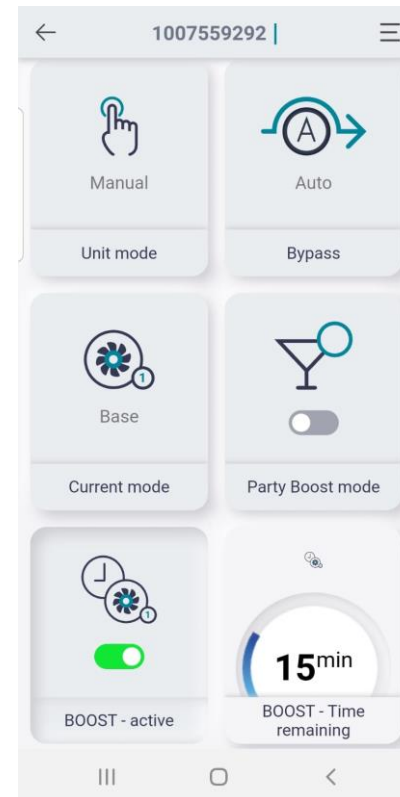
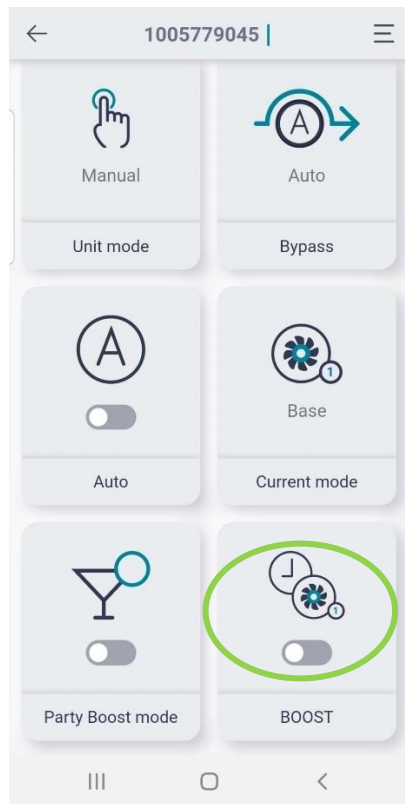
Cloud Current Mode



Cloud Party Boost



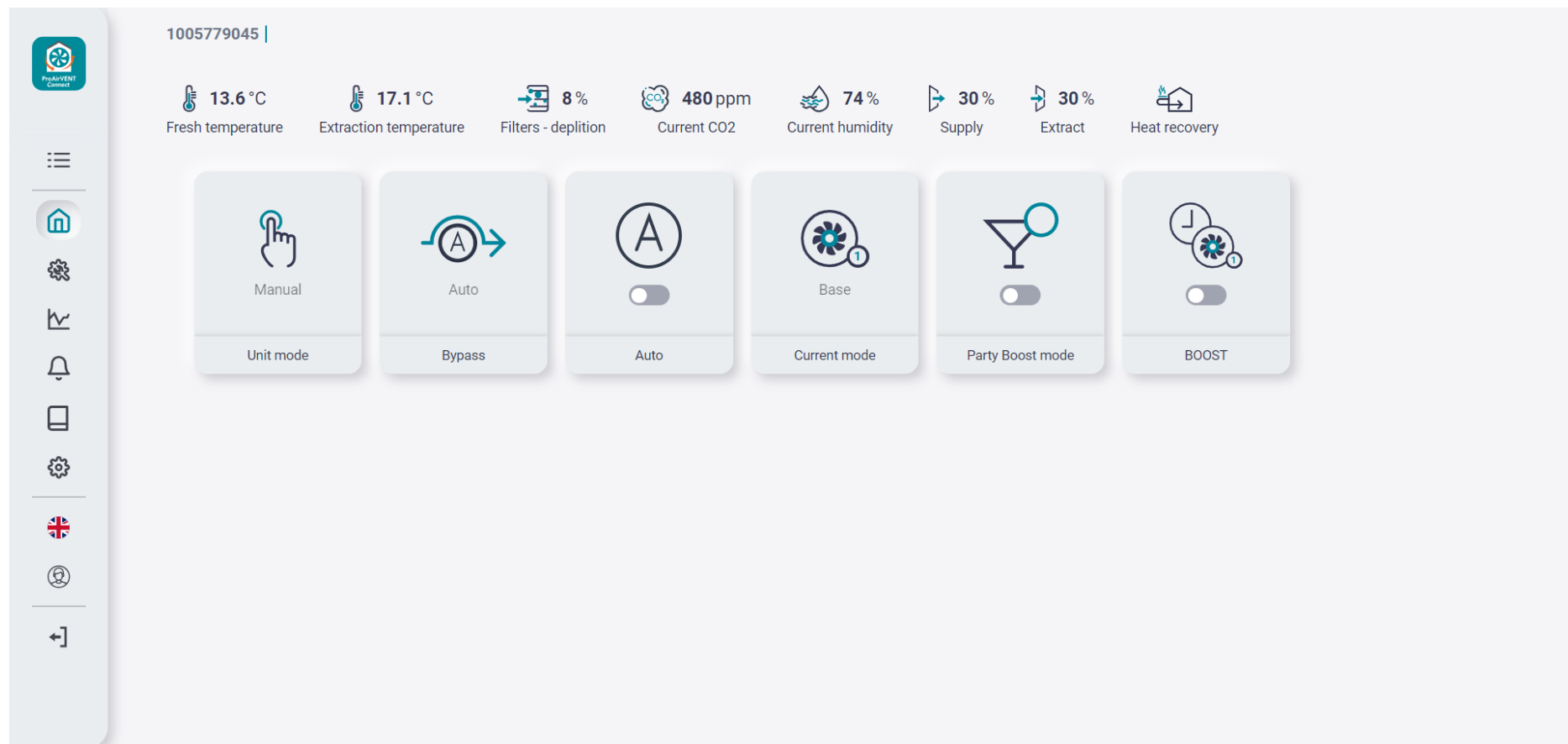
Cloud Boost



ProAir Cloud Dashboard Overview

ProAir Cloud Dashboard - www.proairventconnect.ie

The ProAir Cloud Dashboard can be also be accessed on a laptop via a browser (Chrome, Edge, Firefox etc) the layout resembles the same as the ProAirVent Connect Phone App, **only accessible if the system is connected to the router and is receiving an internet connection



Modbus/BMS Table

The following table provides a complete list of the controller's Modbus parameters.

BMS index	Modbus address	Variable name	Description	Signal type	Min.	Value Max.	Dom.	Variable type	Comments
1	0	Program version	Program series	O	0	0xFFFF	1	hex	
2	1	-	-	-	-	-	-	-	
3	2	STATUS_OK	Status of work	O	0	1	0	integer	
4	3	AWARIA	Failure status	O	0	1	0	integer	
5	4	WORK_MODE	Controller work run	I/O	0	6	0	integer	3 – run1, 4 – run2, 5 – run3,
6	5	Tmain	Lead sensor	O	0	2	0	integer	0 – extraction sensor, 1 – supply sensor, 100 – panel sensor
7	6	Tsup	Supply air temperature (T1)	O	-40.0	60.0	0.0	integer	999 – if sensor failure

8	7	Texh	Extraction air temperature (T2)	O	-40.0	60.0	0.0	integer	999 – if sensor failure
9	8	Tinl	Intake/exhaust air temperature (T3)	O	-40.0	60.0	0.0	integer	999 – if sensor failure
10	9	Tout	Exhausted air temperature (T4)	O	-40.0	60.0	0.0	integer	999 – if sensor failure
11	10	Trec	Ground heat exchanger (GWC) temperature (T15)	O	-40.0	60.0	0.0	integer	999 – if sensor failure
12	11	Theat	Temperature after secondary heater (T16)	O	-40.0	60.0	0.0	integer	999 – if sensor failure
13	12	Tpanel	Main panel temperature	O	-40.0	60.0	0.0	integer	999 – if sensor failure
14	13	Q1-limit	Air quality sensor (Q1-0/1)	O	0	1	0	integer	0 – contact open 1 – contact closed
15	14	-	-	-	-	-	-	-	
16	15								
17	16								
18	17	BYPASS	Bypass actuator state	O	0	1	0	integer	0 – flow off, 1 – flow on
19									

20	19	IN1	IN1 external signal	O	0	1	0	integer	0 – inactive, 1 – active
21	20	IN2	IN2 external signal	O	0	1	0	integer	0 – inactive, 1 – active
22	21	ECO	ECO external signal (control panel)	O	0	1	0	integer	0 – inactive, 1 – active
23	22								
24	23								
25	24								
26	25								
27	26								
28	27								
29	28								
30									
31	30								
32	31								
33	32								
34	33	Mode_OUT	OUT mode	I/O	0	1	0	integer	0 – inactive, 1 – active
35	34	Mode_PARTY	PARTY mode	I/O	0	1	0	integer	0 – inactive, 1 – active
36	35								
37	36								
38	37								
39	38	-	-	-	-	-	-	integer	
40	39	Temp_USER1	Setpoint temperature in run 1	I/O	8	30	20	integer	Unit: °C

41	40	Temp_USER2	Setpoint temperature in run 2	I/O	8	30	20	integer	Unit: °C
42	41	Temp_USER3	Setpoint temperature in run 3	I/O	8	30	20	integer	Unit: °C
44	43	W1	Supply fan, current control	O	0	100	0	integer	Control in %
45	44	W2	Extraction fan, current control	O	0	100	0	integer	Control in %
46	45	W1_EN	Permission to operate supply fan (W1)	O	0	1	0	integer	0 – inactive, 1 – active
47	46	W2_EN	Permission to operate extraction fan (W2)	O	0	1	0	integer	0 – inactive, 1 – active
49	48	Speed_W1_U SER1	Speed W1 in run 1	I/O	dyn. (15)	dyn. (100)	30	integer	Control in %
50	49	Speed_W1_U SER2	Speed W1 in run 2	I/O	dyn. (15)	dyn. (100)	50	integer	Control in %
51	50	Speed_W1_U SER3	Speed W1 in run 3	I/O	dyn. (15)	dyn. (100)	75	integer	Control in %
52	51								
53	52								
54	53								
55	54	Speed_W2_U SER1	Speed W2 in run 1	I/O	dyn. (15)	dyn. (100)	30	integer	Control in %

56	55	Speed_W2_U SER2	Speed W2 in run 2	I/O	dyn. (15)	dyn. (100)	50	integer	Control in %
57	56	Speed_W2_U SER3	Speed W2 in run 3	I/O	dyn. (15)	dyn. (100)	750	integer	Control in %
58	57								
59	58								
60	59								
61	60								
62	61								
63	62								
64	63								
65	64								
66	65								
67	66								
68	67	-	-	-	-	-	-	-	-
69	68								
70	69								
71	70								
72	71								
73	72								
74	73								
75	74	BMS_address	Device address for BMS communication	O	0	247	1	integer	
76	75	-	-	-	-	-	-	-	
77	76	BMS_change_ en	Changing settings from the BMS	O	0	1	1	integer	0 – off, 1 – on

78	77	BMS_STOP_en	START_STOP from the BMS	O	0	1	1	integer	0 – off, 1 – on
79	78	-	-	-	-	-	-	-	
80	79	UID1	UID – characters 1 and 2	O	12336	23130	-	ASCII	
81	80	UID2	UID – characters 3 and 4	O	12336	23130	-	ASCII	
82	81	UID3	UID – characters 5 and 6	O	12336	23130	-	ASCII	
83	82	UID4	UID – characters 7 and 8	O	12336	23130	-	ASCII	
84	83	UID5	UID – characters 9 and 10	O	12336	23130	-	ASCII	
85	84	UID6	UID – characters 11 and 12	O	12336	23130	-	ASCII	
86	85	UID7	UID – characters 13 and 14	O	12336	23130	-	ASCII	
87	86	UID8	UID – characters 15 and 16	O	12336	23130	-	ASCII	
88	87	UID9	UID – characters 17 and 18	O	12336	23130	-	ASCII	

89	88	UID10	UID – characters 19 and 20	O	12336	23130	-	ASCII	
90	89	UID11	UID – character 21	O	48	90	-	ASCII	The younger byte is a character, the older byte is skipped
91	90	-	-	-	-	-	-	-	
92	91								
93	92								
94	93								
95	94								
96	95	-	-	-	-	-	-	-	-
97	96	-	-	-	-	-	-	-	-
98	97								
99	98								
108	107	-	-	-	-	-	-	-	-
109	108								
110	109								
112	110								
113	112								
114	113								
116	114								
117	116								
118	117								
119	118	PSA_W1	Supply fan start level	I/O	dyn. (15)	dyn. (100)	25	integer	Control in %
120	119	PSA_W2	Extraction fan start level	I/O	dyn. (15)	dyn. (100)	25	integer	Control in %
121	120	-	-	-	-	-	-	-	-
122	121	-	-	-	-	-	-	-	-

