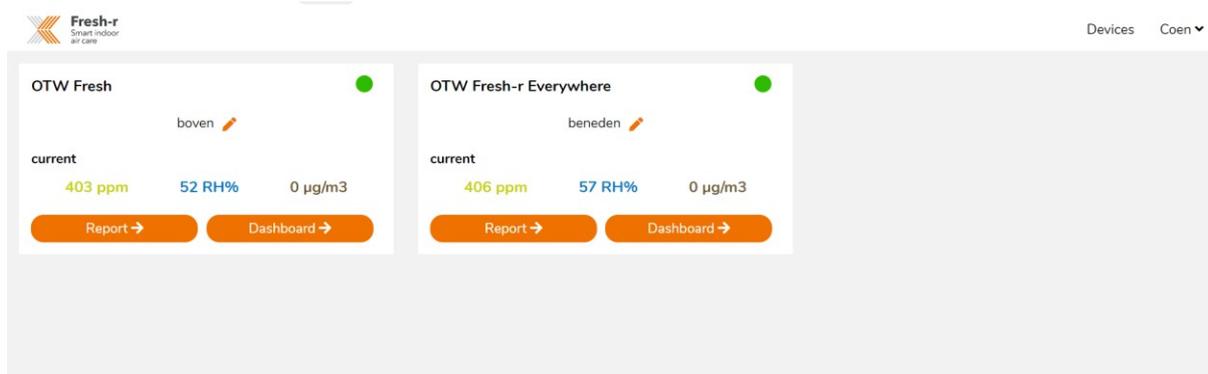# Manual Fresh-r Web App

This guide describes how to access the data from the Fresh-r installed with you. After that, we briefly show which data you can view and how you can interpret it.

**Access to the data**

To access this information, you need a Username and Password. Fresh-r gives you these.

The web application can be accessed via the Fresh-r website. You can go through the following steps to access via the Internet browser on your PC or Apple computer:

1. Open the website  https://fresh-r.me
2. *You will now enter the login screen and you can enter the Users naam (this is an e-mail address) and the Password you have received. Then click on the* login *button*
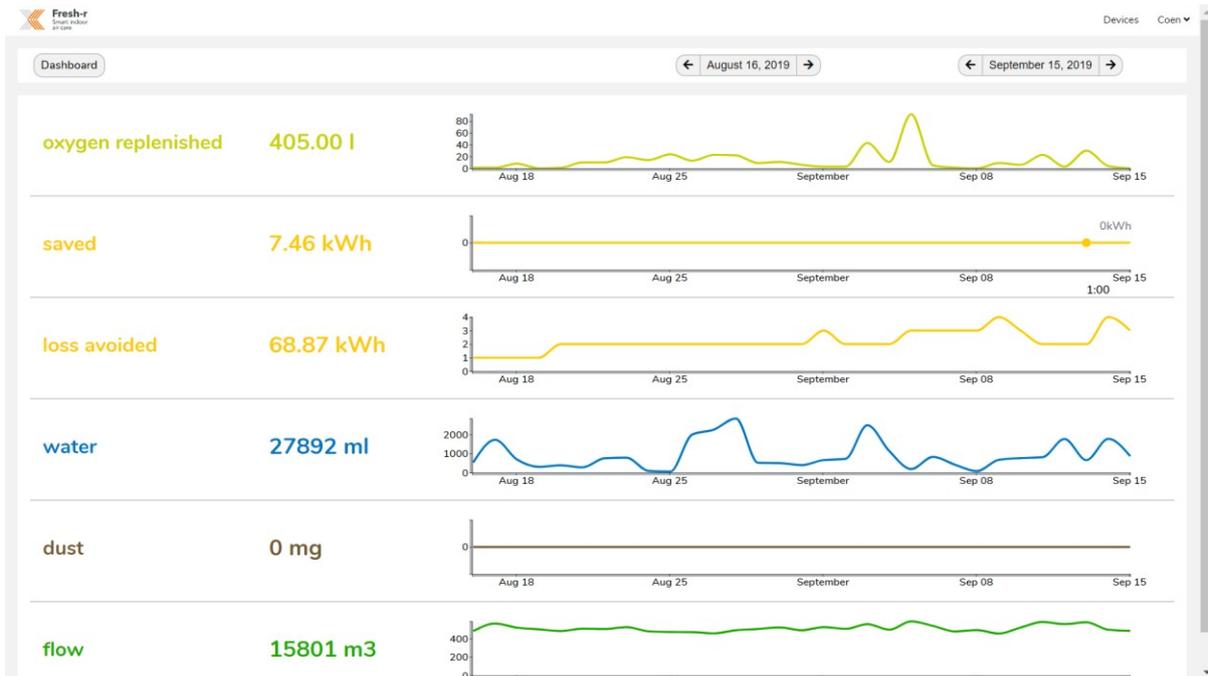3. You will now get the overview below with the Fresh-r devices from which you can view the data.



4. You can click Report or Dashboard to view the data of the device in question.

**The information you get from the Fresh-r**

The Fresh-r works demand-driven so will ventilate more air if needed. More ventilation is needed if you are with more people or also when there is a lot of moisture, for example by cooking or showering. To do that, there are sensors in the Fresh-r that continuously measure how much $CO_2$ and moisture is in the air because people breathe, cook, etc. These measurement data are also visible to you via the web application and you can thus see what the performance of your Fresh-r are.
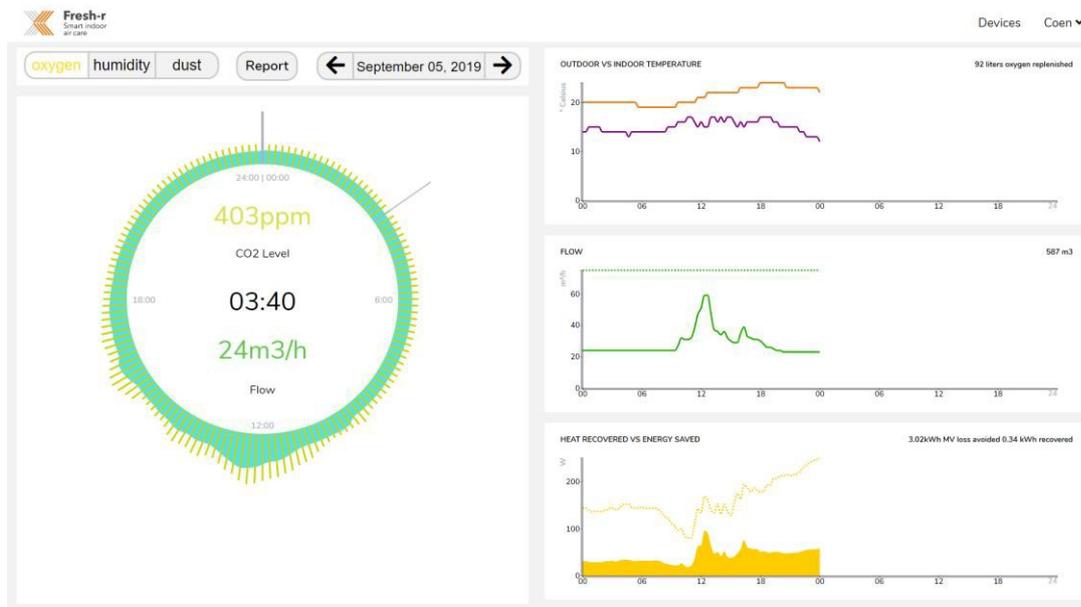
On the following pages you will see what information you get on the screens and what you can draw from it.

**Report**



This overview contains an overview of different key numbers for a week or more. The start and end date can be chosen by clickingon the arrows next to the dates or on the date itself.

**Dashboard**



## Oxygen and energy saving

This screen shows the amount of fresh oxygen that the Fresh-r has brought in and CO2 that has been ventilated outwards.

At the top left you will see three buttons. The first with 'Oxygen', or oxygen, is colored and you can see that it has been chosen. You can click on the other two buttons to see the data on moisture and particulate matter. (Particulate matter only if installed.)

At the top right of the screen you will see that this is the data of 5 September 2019. You can go through the days by clicking on the triangles to the left and right of the date. When you click on the date itself, you will see a calendar in which you can select the day you want.

On the left is a large circle that shows the data of the day for 24 hours (at the top it is midnight and clockwise you can see the dates for all hours of the day):
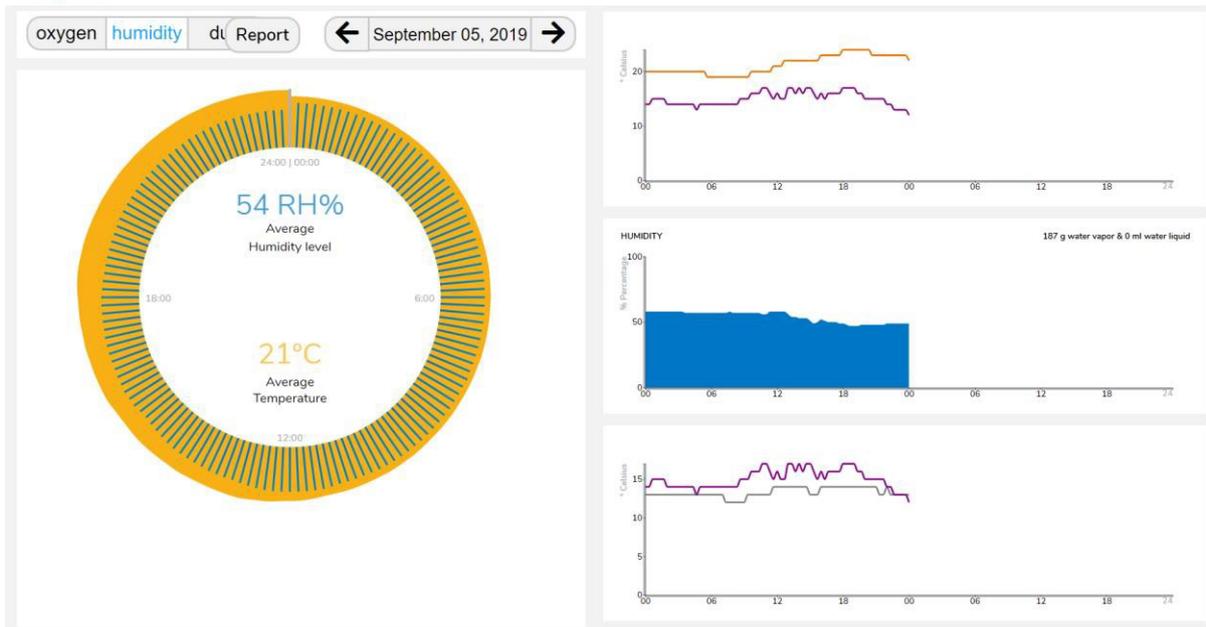- The yellow dashes show the amount of CO2 in the number of particles per million (PPM). The Fresh-r strives to keep it below 1200 because it makes you feel comfortable and clear.
- The green plane shows the amount of air ventilated by the Fresh-r.
- In the circle there are two digits and you can see that for this day the average CO2 content was 403 PPM and the average volume was 24 m3 of air per hour.

You can use your mouse arrow to go along the circle and see what the CO2 content was and the amount of ventilated air per 10 minutes.

On the right side of the screen you will see 3 charts:
1. At the top is a graph with the indoor and outdoor temperature, respectively in an orange and purple line. It also says how much CO2 is from fresh oxygen, in this case 92 litres.
2. In the middle is a graph showing the amount of air that has been refreshed. You can see that this is a bit higher especially in the evening because there are more people at home. You can also see that a total of 300 m3 of air is ventilated this day.
3. At the bottom is the graph in which you can see how much energy has been recovered and how much energy you have saved compared to using a standard mechanical ventilation system. In this case, more than 3000 and more than 300 Wh respectively.

Also with these graphs you can go along the graph with your mouse arrow and see the exact values.

## Moisture and temperature

This screen shows the amount of moisture drained by the Fresh-r.

The graphs work the same as explained above for oxygen/CO2/energy.

In the left circle, the blue and yellow numbers show respectively the average relative humidity and the average temperature inside throughout the 24 hours.

On the right side of the screen you will see at the middle graph that 187 ml of water has been drained in the form of water vapour this day. You can also see in this graph that the relative humidity has been very stable during the day (50-55 %).

In the bottom graph on the right you can see the dew point in the gray line and the showerat temperature in the purple line. The dew point is the temperature at which the moisture in the air condenses. If there is a cold place somewhere in the house that comes close to the dew point temperature, condensation will form there. If this happens often or for a longtime, it can lead to moisture or fungal spots.

**The Fresh-r data  and privacy**


The Fresh-r works automatically and will ventilate more air when needed. More ventilation is needed if you are with more people or also when there is a lot of moisture, for example by cooking or showering. To  do this, there are sensors in the Fresh-r  that continuously measure how much exhaled air (via the $CO_2$ content) is in the air and what the moisture content is.

When the Fresh-r is connected via Wi-Fi, this data is also visible via the web application and you can see how  the  air quality in yourhome is and  what the performance of your Fresh-r is.

The data can be accessed via the computer systems of Vaventis BV (Fresh-r is a brand name of Vaventis BV) in which they are managed. We manage this data with the utmost care according to the following rules:

1.  The data of the Fresh-r are the property of the occupant of the house in which the Fresh-r is installed and are not used for purposes other than those mentioned below.
2.  The management and processing of the data have been notified to the Dutch Data Protection Board (CBP). The corresponding notification number is FG007475. On our website you will see the privacy statement, see  https://fresh-r.eu/privacy-verklaring
3.  The data is used for  the following purposes:
    a.  Give the resident insight into the air quality (how healthy is the air) and performance (how much energy wordt saved) of the Fresh-r. In the manual of the web application it is visible which data is involved.
    b.  Give the homeowner insight into the air quality and performance of the Fresh-r so that they can monitor the performance of the Fresh-r. Thedata are only visible at an aggregated  level, i.e. in totals and averages per week and month, **not** per day or hour.
    c.  For monitoring the operation of the Fresh-r and possibly remedying malfunctions. The data is accessible tospecificvaventis employees and is processed under the supervision of these employees.
    d.  For the planning of maintenance. The maintenance company will be notified when the Fresh-r needs to be cleaned. The maintenance company then contacts the resident to make an appointment.
4.  Vaventis does not store your data for longer than is permittedand is necessary for the processing of the purposes for which your data are processed.
5.  The resident can view his own data via a secure environment and only after entering the personal username and waitingplace. The password can be changed by the resident at any time.
6.  Vaventis has taken appropriate and strict technical and organizational measures to protect (personal) data against loss or against any form of unlawful processing.
7.  As a resident of the house, you have the following rights:
    a.  Right of access. You can view which data from your home is available via the web application. We are obliged to show you the data and we do this via the web application.
    b.  Right of correction. If the collected data is incorrect, you may request Vaventis to correct this data. We are obliged to participate in this.
    c.  The right to be forgotten. Vaventis may not keep the data from your home in a waythat is necessary. In this case, that means that Vaventis will have to delete the data that refers to you if you move. This is done by default when you indicate that you have moved.
    d.  Right to transfer and display data. You can choose to give others access via the web app.
    e.  Information law. Through this letter we inform you what we do with the Fresh-r data and why.