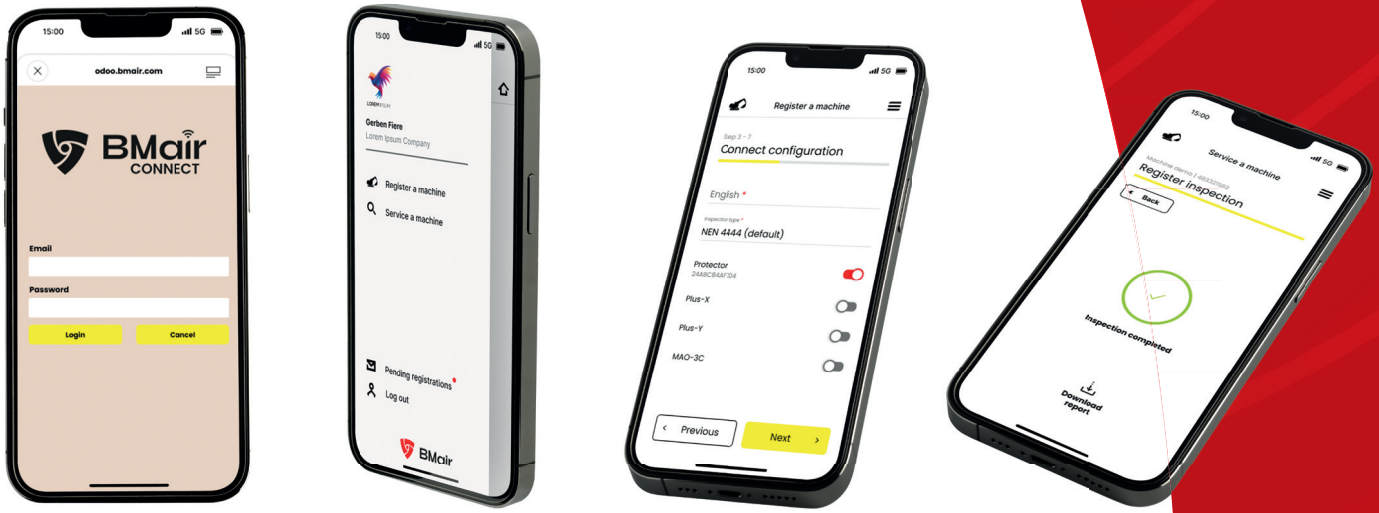
BMair




**User Manual | App**

*Register a BMair Protective Ventilation System*

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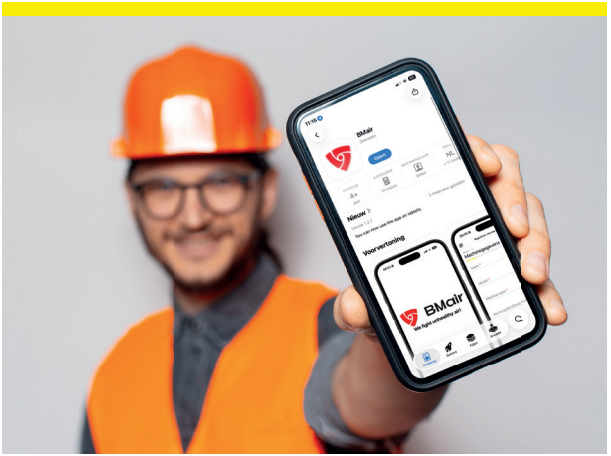


# 1. Introduction

Since the introduction of the BMair Connect product line, all controllers are now online and accessible to both dealers and machine owners. To ensure that every machine is correctly registered, BMair has developed the BMair App.

> Note: The app is intended exclusively for BMair service partners. It is not available to end users and is used solely for machine registration and maintenance. For real-time machine information, please visit the BMair Connect Portal at: **connect.bmair.com**.

The BMair App can be used on any mobile device, including both smartphones and tablets. As a registered user, you will automatically receive email notifications about new features, improvements, and updates to the app. This ensures you are always using the latest version.

**Download the app**

The BMair App is available for download in both the App Store (iOS) and Google Play Store (Android). Since the app is designed for a select group of authorized users, it is not publicly visible in the app stores.

You can download the app directly by clicking the store buttons on the BMair website: **www.bmair.com/app**

**Access to the App**

To use the BMair App, you must have a registered account. If a technician does not yet have one, an account can be requested through BMair Service. Please send your name and email address to: **service@bmair.com**

Once your account has been created, you will receive an invitation to set your password before logging in for the first time.

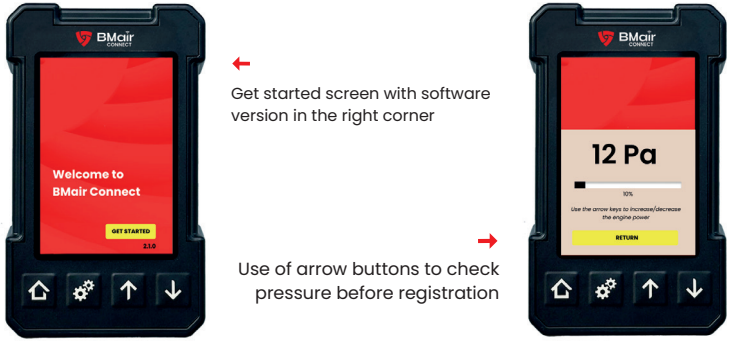
## 2. BMair Connect

To ensure full functionality of the BMair App and connected systems, always make sure the software is up to date when performing installations or maintenance. All BMair Connect units supplied directly by BMair are delivered with the latest software version. However, controllers that have been kept in stock for some time may require a software update before installation.

Before starting any installation, check that the software is running the latest version. You can find the current version number at the bottom of the screen consisting of three digits.

To verify the latest available software version, visit **www.bmair.com/update.** On this page you will find the latest software version as well as step by step instructions on how to perform the update.

All BMair App users will also receive a newsletter by email whenever a new update becomes available.




## 3. Register a Machine

The controller registration should only be carried out after the complete installation, including sealing, has been finished. To verify that sufficient pressure can be built up, it is possible to measure the pressure before registration.

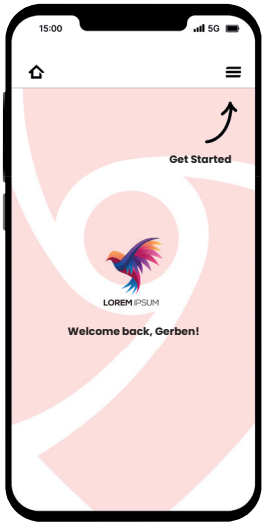
After installation, turn on the machine. The controller will display the 'Get Started' screen, where you can use the arrow buttons to adjust engine power and test pressure. Once sufficient pressure is reached (at least twice the minimum alarm value), you can start the registration process.

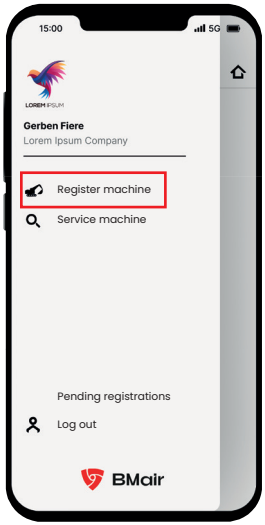
Detailed registration steps are explained on the next page.

## 1 Start

After logging in, press [Menu] to register a machine. Then select [Register Machine] to start the registration process.

> It is important that the machine is running and that the app user is near the machine, preferably outside the cabin with the door closed.

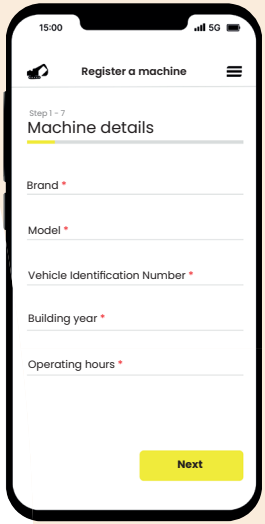



## 2 Machine details

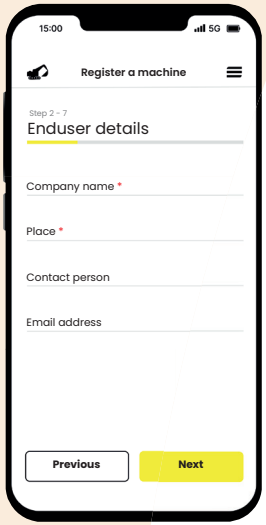
The first step is to enter all machine details, such as the brand and model of the machine. It is important that the VIN is entered in full. If the model is not yet available, the app user can create a new one. The app will then ask for the type of machine (for example, an excavator). Fill in this information as accurately as possible to avoid data inconsistencies. Press [Next].

*Tip: The app suggests options after two characters. Always select the correct one from the list.*



## 3 Enduser details

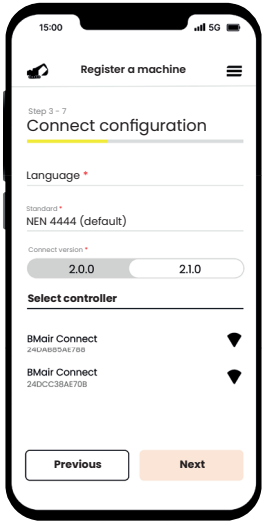
Enter the company name and location of the end user. If the app user knows a contact person who should receive a login, you may also enter their details. If not, the contact name and email address fields are optional and may be left blank. Press [Next] to continue.

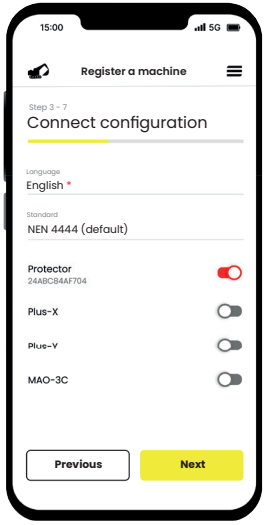



## 4 Connect Configuration

Select the language and the standard you want to program in the controller. The standard is set by default, but the user can change it by tapping on it, but only if a different standard is intentionally required. After this, the app will search for the BMair Connect via Bluetooth. Select the correct BMair Connect from the list, after which the app will automatically detect all connected components along with their serial numbers.

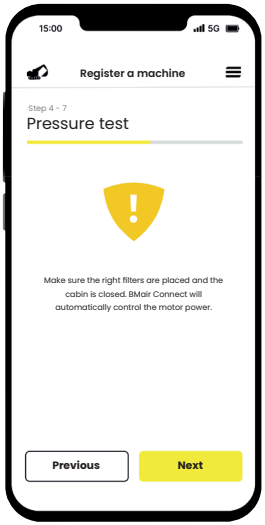
*Tip:*
*Select the right BMair Connect Software version.*

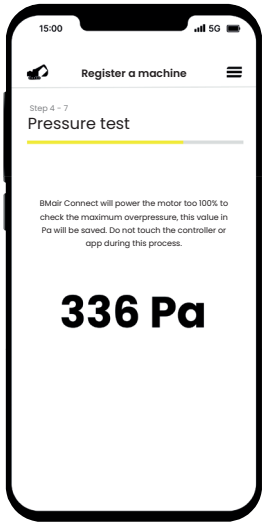


## 5 Pressure test

The app automatically measures the maximum pressure, which must be at least twice the alarm value. If the pressure is sufficient, a green check mark appears and you can continue the registration. If the pressure is too low, you'll be asked to improve the sealing and repeat the test until the pressure is sufficient. Press [Next] to continue.

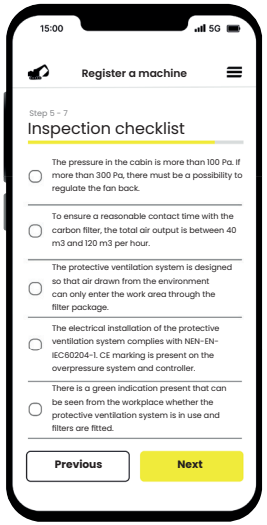



## 6 Inspection checklist

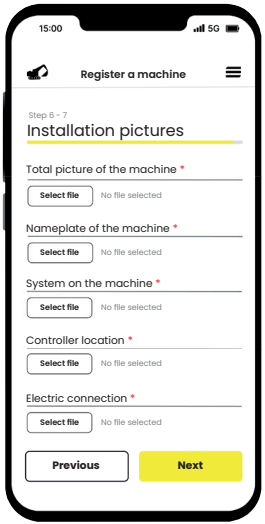
Depending on the selected standard, the user will receive a checklist based on that standard. This checklist will later appear on the certificate, so fill it in carefully. Press [Next] to continue to the next step.

*Tip: To select a checkbox, you can also tap the corresponding text.*



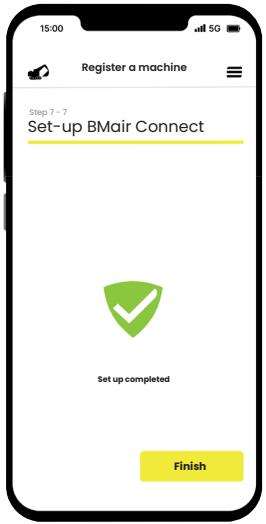
## 7 Installation pictures

In this step, you will be asked to upload installation photos. These photos are used to provide clear visual references in the installation manuals. Please take as many photos as possible to help us expand our database. This will make it easier and faster for us to include detailed installation manuals directly in the app. Press [Next] when all mandatory pictures are set.




## 8 Set-up BMair Connect

The app sends all data to both the controller and the online portal. This may take a moment. When the process is complete, a green check mark with “Setup Completed” will appear. Do not close the app or power off the controller during this process. The controller will start automatically and is then ready for use. After this, the controller can no longer be registered again.

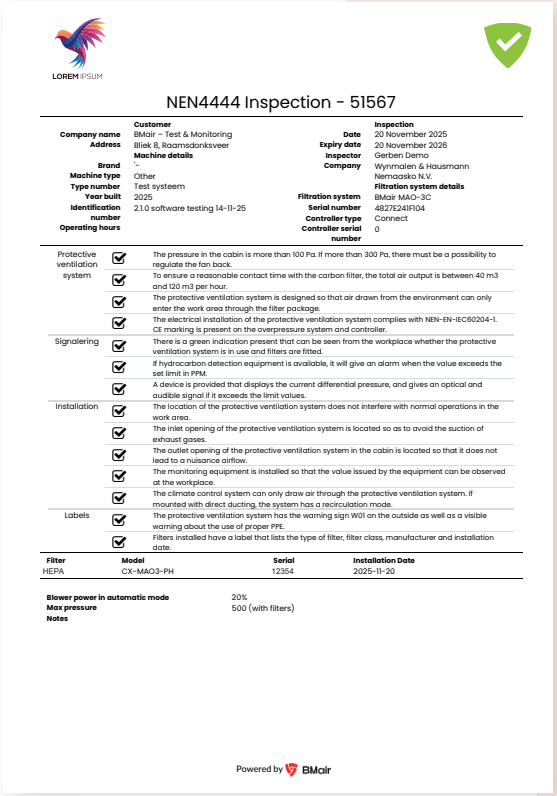


## 9 Certificate

Once all registration steps have been completed, a certificate is automatically generated. At first, the certificate is issued in the name of the service partner's company. After approximately one day, the certificate is verified and updated to display the end user's name.

> The certificate is valid for one year. This is stated both in the portal and on the certificate itself. After one year, the system must be inspected again. This service can also be performed via the BMair App. Follow the steps in the App's service manual to complete this process.

The certificate will show the branding of the service partner's company, ensuring consistent identification of the installer.



LOREM IPSUM

NEN4444 Inspection - 51567

| | | | |
|---|---|---|---|
| **Customer** | | **Inspection** | |
| **Company name** | BMair – Test & Monitoring | **Date** | 20 November 2025 |
| **Address** | Bliek 8, Raamsdonksveer | **Expiry date** | 20 November 2026 |
| **Machine details** | | **Inspector** | Gerben Demo |
| **Brand** | - | **Company** | Wynmalen & Hausmann Nemaasko N.V. |
| **Machine type** | Other | **Filtration system details** | |
| **Type number** | Test systeem | **Filtration system** | BMair MAO-3C |
| **Year built** | 2025 | **Serial number** | 4827E241F104 |
| **Identification number** | 2.1.0 software testing 14-11-25 | **Controller type** | Connect |
| **Operating hours** | | **Controller serial number** | 0 |

| | | |
|---|---|---|
| Protective ventilation system | ☑ | The pressure in the cabin is more than 100 Pa. If more than 300 Pa, there must be a possibility to regulate the fan back. |
| | ☑ | To ensure a reasonable contact time with the carbon filter, the total air output is between 40 m3 and 120 m3 per hour. |
| | ☑ | The protective ventilation system is designed so that air drawn from the environment can only enter the work area through the filter package. |
| | ☑ | The electrical installation of the protective ventilation system complies with NEN-EN-IEC60204-1. CE marking is present on the overpressure system and controller. |
| Signalering | ☑ | There is a green indication present that can be seen from the workplace whether the protective ventilation system is in use and filters are fitted. |
| | ☑ | If hydrocarbon detection equipment is available, it will give an alarm when the value exceeds the set limit in PPM. |
| | ☑ | A device is provided that displays the current differential pressure, and gives an optical and audible signal if it exceeds the limit values. |
| Installation | ☑ | The location of the protective ventilation system does not interfere with normal operations in the work area. |
| | ☑ | The inlet opening of the protective ventilation system is located so as to avoid the suction of exhaust gases. |
| | ☑ | The outlet opening of the protective ventilation system in the cabin is located so that it does not lead to a nuisance airflow. |
| | ☑ | The monitoring equipment is installed so that the value issued by the equipment can be observed at the workplace. |
| | ☑ | The climate control system can only draw air through the protective ventilation system. If mounted with direct ducting, the system has a recirculation mode. |
| Labels | ☑ | The protective ventilation system has the warning sign W01 on the outside as well as a visible warning about the use of proper PPE. |
| | ☑ | Filters installed have a label that lists the type of filter, filter class, manufacturer and installation date. |

| Filter | Model | Serial | Installation Date |
|---|---|---|---|
| HEPA | CX-MAO3-PH | 12354 | 2025-11-20 |

| | |
|---|---|
| **Blower power in automatic mode** | 20% |
| **Max pressure** | 500 (with filters) |
| **Notes** | |

Powered by BMair

*An example of a certificate, available for download via the portal for both service partners and end users.*

# 4. Frequently asked questions

The most frequently asked questions about the BMair App are described in this chapter, along with their answers.

**Can anyone use the BMair Service App?**
No, the app can only be used by authorized BMair service partners. Access is restricted and requires a special login provided by BMair. If you are unsure whether your credentials provide access, please contact BMair Service — either by phone or by email at **service@bmair.com**.

**Can I use the app only on a mobile phone?**
No, the BMair App can be used on both mobile phones and tablets. The app is optimized for mobile devices and works the same way on both types of hardware.

**Do I need an internet connection to use the app?**
The app requires an internet connection when logging in. After that, it can be used both online and offline. Data is temporarily stored on the phone until the connection is restored, after which it is automatically sent to BMair Connect. This also applies when the signal is too weak. After a time-out, the data is saved locally until a stable connection is available again.

**Which standard should I use?**
The default standard is always preselected in the app and can be recognized by (default) displayed after the standard name. This represents the applicable standard for your region. However, there are also specific standards available that you can select when required. Below is a short overview of these specific standards:

NEN4444 (default)
This is the standard setting we use for all BMair installations. It is the closest match to the upcoming European standard, so we always recommend using it. The minimum pressure is set to 100 Pa.

RS20

An Australian mining standard, with a minimum pressure of 50 Pa. Please note that this standard is valid only in Australia.

ISO 23875

The international mining standard. The minimum pressure is set to 50 Pa. Please note that additional components are required to comply with this standard.

EN 157695

The basic cab cabin standard, commonly used in the agricultural sector. The minimum pressure is set to 20 Pa and is only recommended for machines that have difficulty maintaining pressure.

This EN157695 is a basic standard and it is not recommended to select it for heavy machines. Increasing the pressure when the required pressure level is not reached is always the better option to ensure the operator's safety.

**Why does the pressure test require twice the minimum pressure value?**

It is important that the system continues to operate reliably. If the sealing is set to just reach the minimum pressure, malfunctions may quickly occur due to filter saturation or deterioration of the sealing during machine use. This is normal, but we want to prevent such issues.

Therefore, a pressure buffer is created. The system automatically regulates the pressure, which means it does not need to draw in air as forcefully while still maintaining the minimum airflow ($m^3/h$). As a result, the system collects less dust and ensures the operator benefits from long-lasting, stable performance.

# We Fight Unhealthy Air!

BMair

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