



LIQUIMECH — CONNECT

Mobile App

User Manual

V1.0.1



Dust Suppression System

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1. Introduction

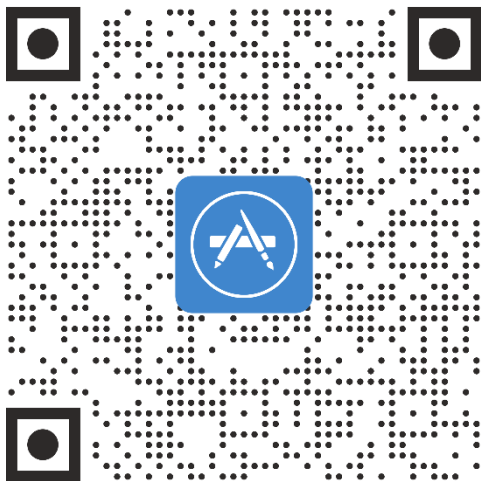
1.1. Overview

The Liquimech Connect App can be used as a companion to the Dust Suppression System, allowing users to configure interval and runtime parameters based on the deployment site, season, and/or usage requirements.

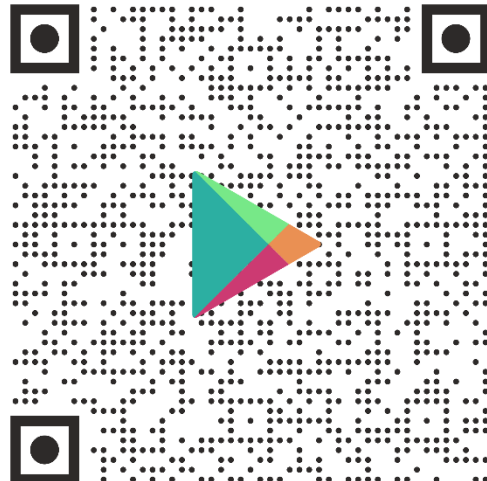
2. Liquimech Connect Mobile App: Getting Started

2.1 Downloading

Download the Liquimech Connect Mobile App from the App Store (iOS) or Google Play Store (Android).



App Store



Google Play Store

3. Liquimech Connect Mobile App: Functionalities

3.1. Login Screen

The app's login screen allows users to sign in or recover forgotten passwords. Below are screenshots of the respective pages:

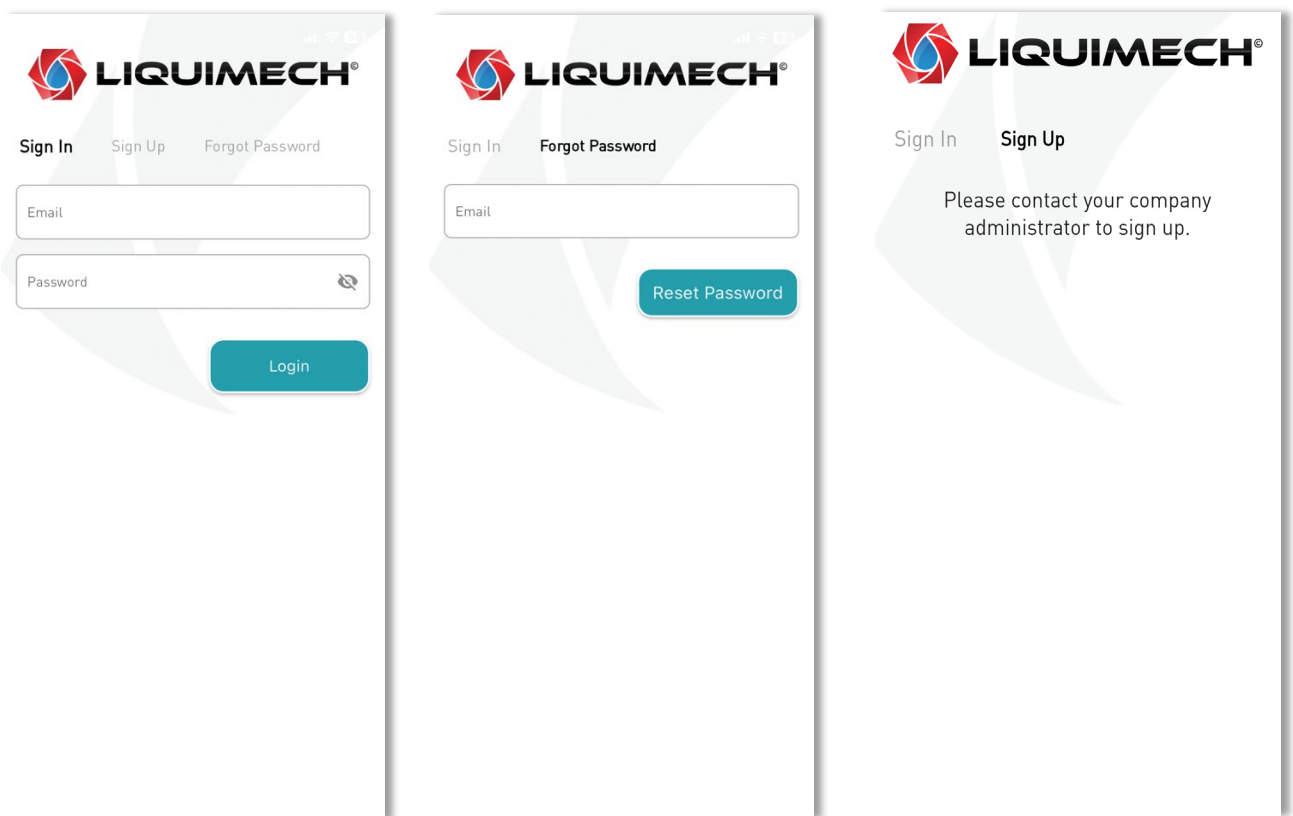


Figure 1: Screenshots of the sign-in, forgot password, and sign-up pages.

Note: To sign up, please contact your company administrator.

User Login

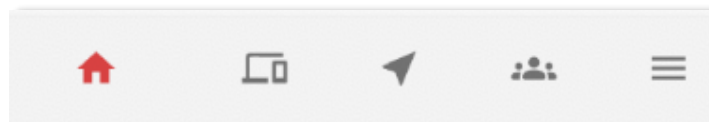
- ❑ Launch the app and enter your registered username and password.
- ❑ Tap "Login" to access the app.

Forgot Password

- ❑ If you forget or want to reset your password, tap "Forgot Password" on the login screen.
- ❑ Enter your registered email address and follow the instructions to reset your password.

3.2. Landing Screen

The landing screen consists of the following main sections, navigable via the navigation rail at the bottom of the screen:



*Figure 2: Navigation rail, from left to right:
Home, Devices, Nearby Devices, Users and Settings.*

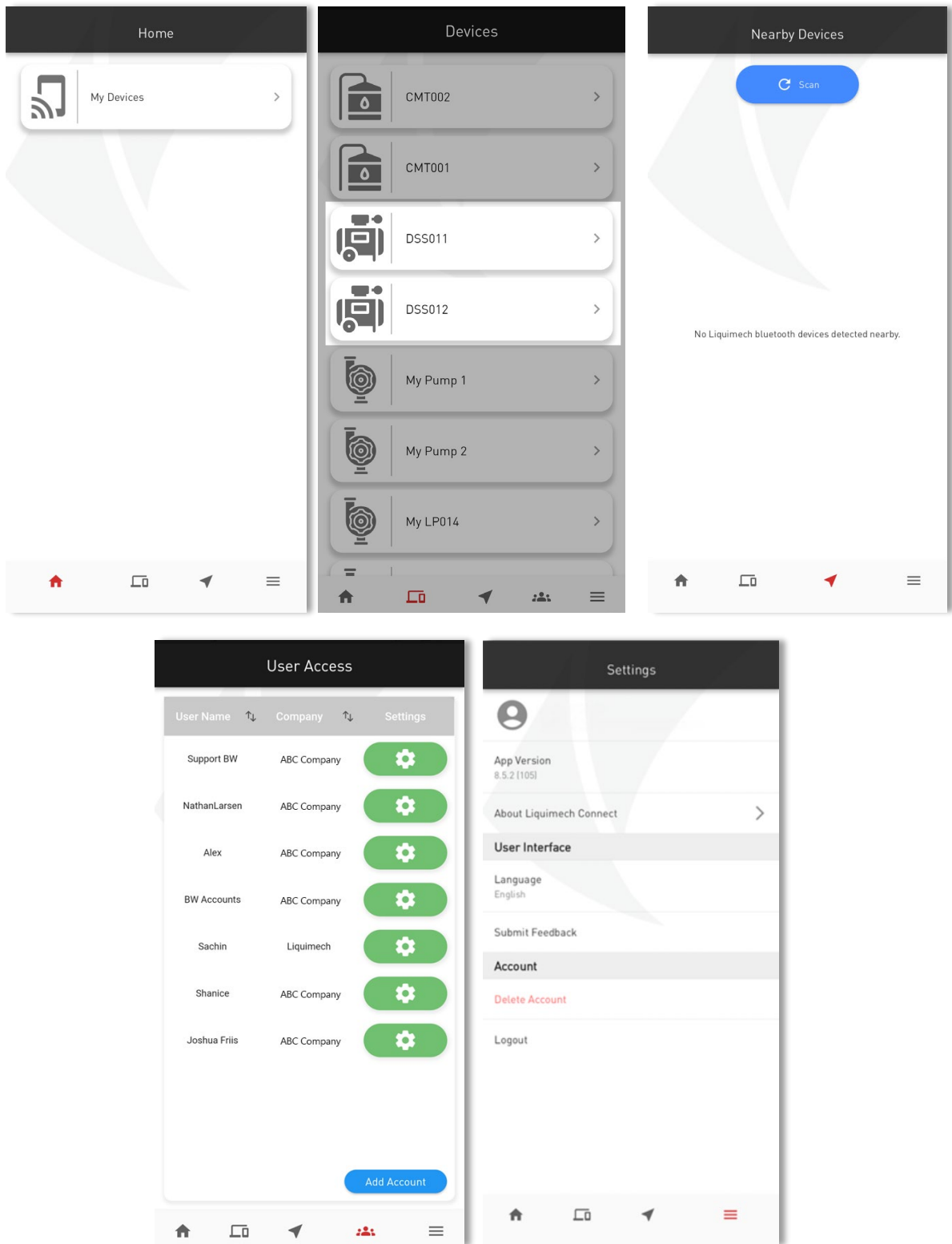


Figure 3: Screenshots showing, in order: Home page, Devices page, Nearby devices page, User Management page, and Settings page.

Dust Suppression System

For dust suppression, an entry with the following icon will be shown:

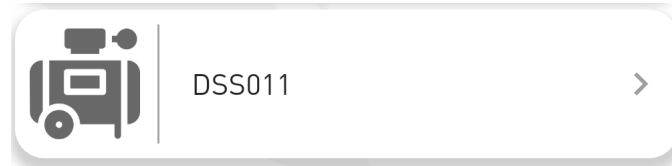


Figure 4: Dust Suppression System entry

- If the field device supports offline interfacing, the app tries to connect to it if it is nearby.
- When the device entry is tapped, the operator is asked permission to connect to it, after which the following message will be shown.

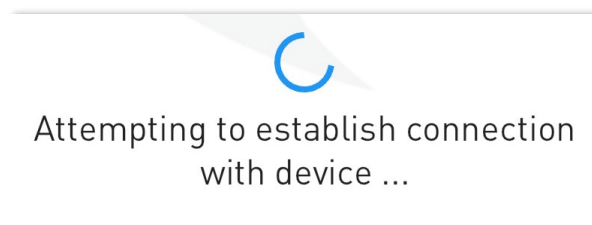


Figure 5: Message after the confirmation.

- Upon successful connection, the following page is shown:

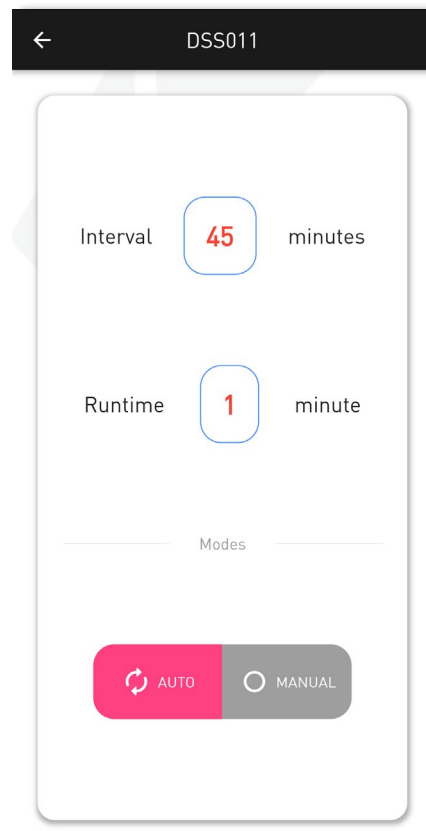


Figure 6: Dashboard after the connection.

If the app cannot connect to the device, the following screen will be shown. The operator can then try to reconnect by pressing the 'Connect' button.

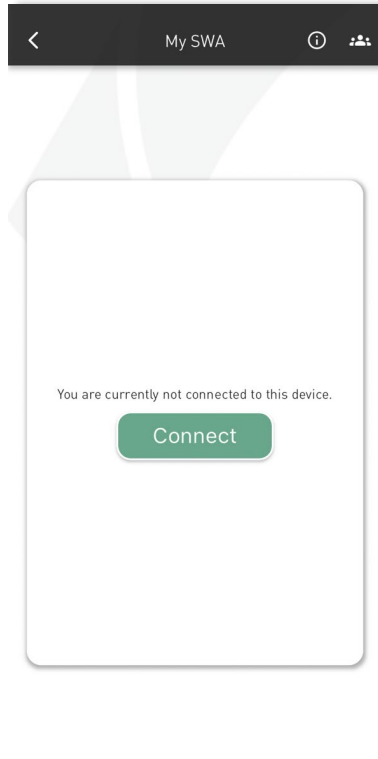


Figure 7: Mobile App cannot connect to the device screen.

The dashboard displays the following information:

A. Current Operating Mode

- Auto Mode:
 - In Auto Mode, the device runs on preset pump intervals and runtimes.
 - The system continuously monitors the flow switch to check for proper operation.

- Manual Mode:
 - You can switch to Manual Mode anytime by using the app.
 - When in Manual Mode, you have direct control to start or stop the pump using the push buttons on the unit.

B. Current Pump Settings

- Pump Interval: The wait time between actions.
- Pump Runtime: How long the pump runs for.

The operating mode can be changed using the toggle switch to select the desired mode.



Figure 8: Mode toggle switch

Note:

- *In Auto Mode, if the flow switch indicates an issue (for example, it doesn't detect proper flow), the system automatically reverts to Manual Mode.*
- *Pressing any physical push button on the device (either to start or stop) will also switch the device to Manual Mode.*

To resume automatic operation after any manual override, simply toggle the mode back to Auto Mode using the app.

The pump settings can be changed by selecting the appropriate boxes.

Interval **45** minutes

Select Interval

42
43
44
45
46
47
48

minutes
hours

Cancel Confirm

Select Interval

42
43
44
45
46
47
48

minutes
hours

Cancel Confirm

Interval Configuration

Runtime **1** minute

Select Interval

1
2
3
4

Cancel Confirm

Runtime Configuration

Figure 9: Interval and Runtime Configurations screen

The table below shows the ranges of the two configurable parameters:

Parameter	Minimum Value	Maximum Value
Interval	1 minute	60 hours
Runtime	1 minute	60 minutes

3.3. User Account Management

The user management page allows an operator with the right access level to provide access to their device to other users.

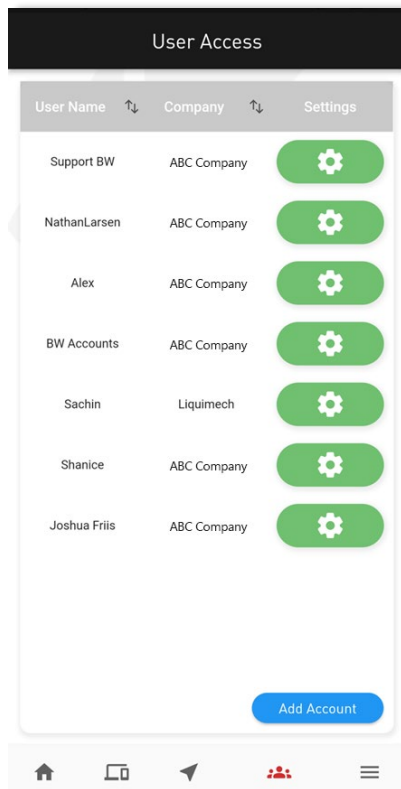


Figure 10: User access screen.

The username, email, and access level can be entered. A target operator may not be given an access level equal to or greater than the access level of the operator using the app.

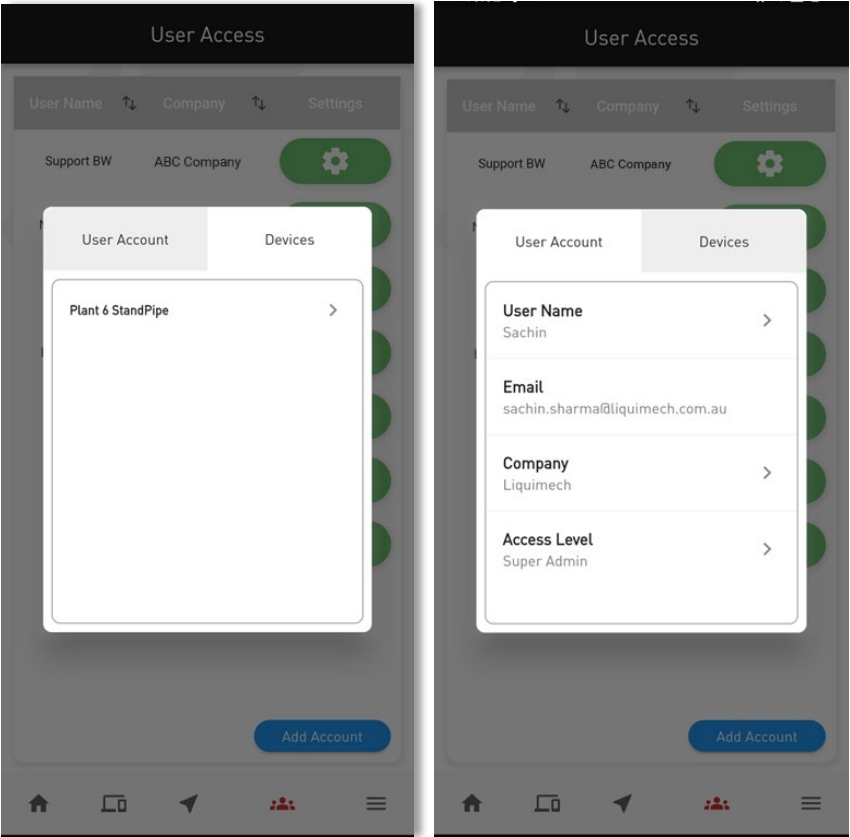


Figure 11: User access screens with a dialog box for managing user accounts and devices.

Access levels

The following table lists all the access levels:

Access Level	Access Title	Description
1	Super-admin	Complete system access with user management capabilities. Usually, the account that Liquimech hands over the product to.
2	Admin	Can modify system settings and view all user activities. Usually delegated by the super-admin to perform day-to-day tasks.
3	Technician*	Limited permission to change settings; can view system status only.
4	Operator*	Basic day-to-day access; can view system status only.

Note: Depending on the company's organisational structure and the field device's capabilities, a technician and operator may have essentially the same features. For the purposes of most organisations, both access levels may indicate accounts with read-only access.

Note: When a new user is added to a device, they will receive an email notification about their new device access.

Existing mobile app users will not receive this email; instead, the newly added devices will automatically appear in their device list.

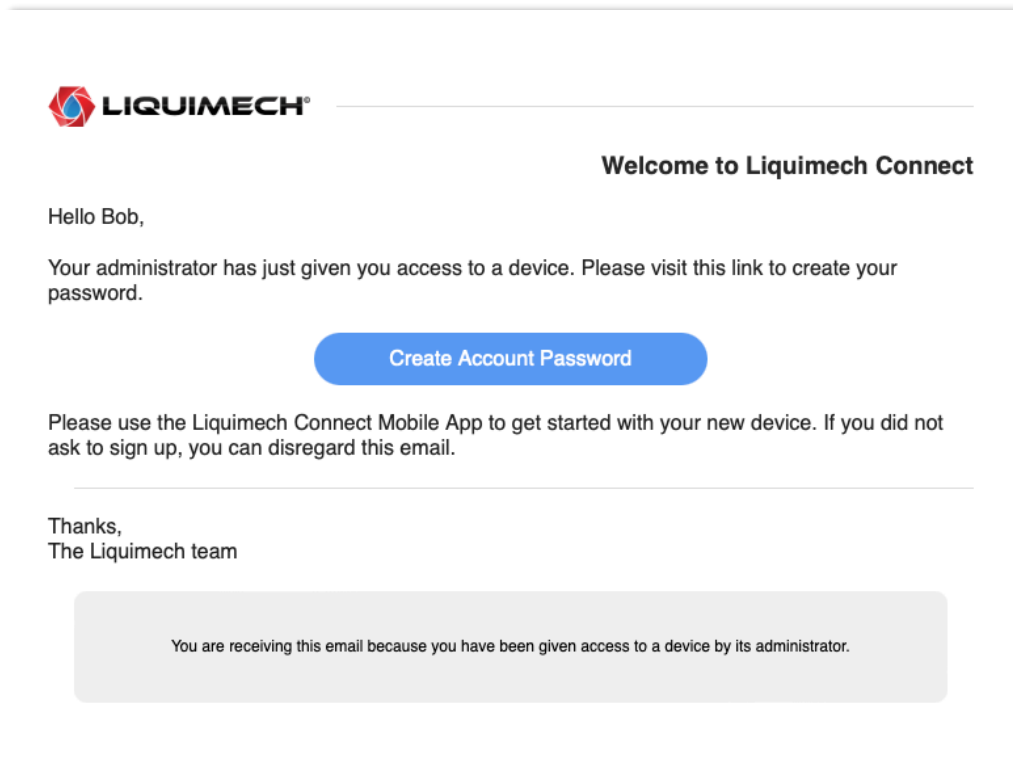


Figure 12: Email notification on new device access.



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