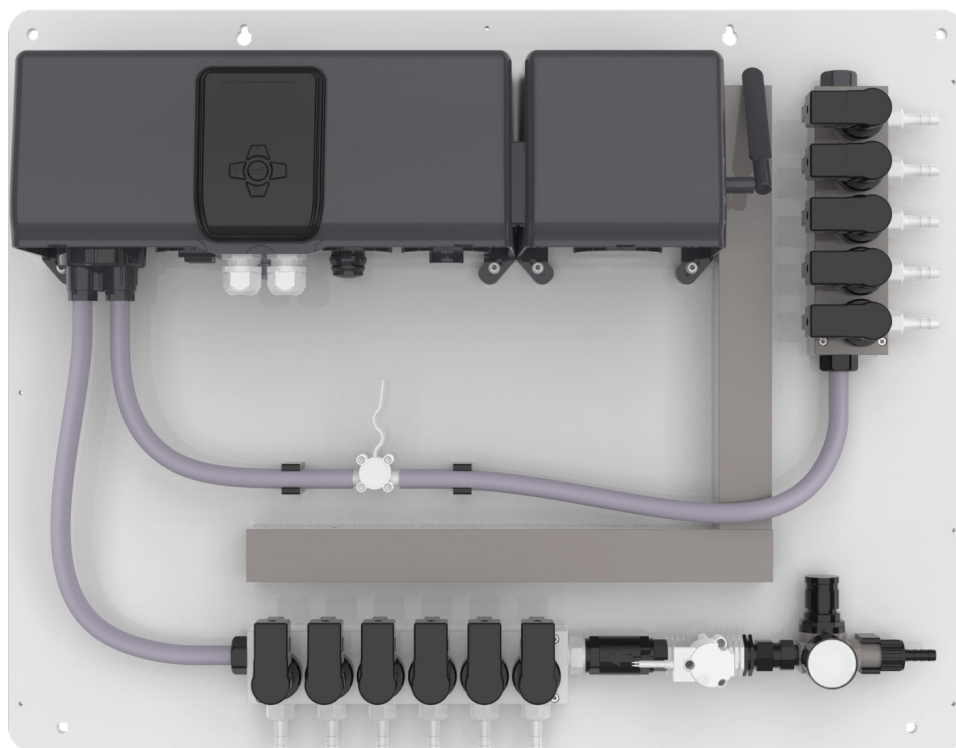


BRIGHTWELL



OPL MULTIPLEX M

LAUNDRY DOSING SYSTEM

(ELECTRIC)

INSTALLATION - SETUP - MAINTENANCE



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GENERAL INFORMATION

SAFETY INFORMATION



Wear protective clothing, gloves and safety glasses when installing our equipment or when handling chemicals. Follow the chemical manufacturer's guidelines for safety advice.



During maintenance work, depower the equipment whenever possible. Be aware of possible chemical residues that may remain on the various components of the equipment. Please flush the equipment with water before carrying out any work.

For information on the products used in this dispensing equipment, refer to the product label and the appropriate Material Safety Data Sheet (MSDS).



Caution! Risk of high voltage electric shock



Electrical installation should only be carried out by trained personnel and in accordance with local electrical wiring regulations. Disconnect power to the unit and isolate it from any electrical source before servicing.



Do not supply power outside the limits indicated on the rating plate.



Please earth the safety equipment as this increases the dispenser's resistance to electrical noise.



Do not use damaged or frayed cables and prevent this from happening by using, when necessary, protective elements (cable glands, conduits, etc...).



The installation of the metering unit must be carried out according to the instructions in this manual.



Do not fix the unit on an unstable, uneven or non-vertical surface. Make sure that the different elements are well anchored. Do not place heavy objects on them.



This equipment works in a vertical position, with the control cabinet at the top left and the chemical products underneath the equipment. Do not install it in other positions.



Do not disassemble or modify this equipment, at the risk of losing the possibility of warranty. Replacement of components (pumps, pipes, valves,...) or modification of the system must only be carried out by qualified personnel.



Avoid running the system dry as this may cause damage to the dosing pump(s).



Always ensure that chemicals are handled with care and that the dosing equipment area is adequately ventilated.



Do not reach into the mechanisms.

GENERAL INFORMATION

GUARANTEE

Your product comes as standard with a 2 year warranty from the date of manufacture, against manufacturing fault or defects and mechanical or electrical breakdown. Please visit our website for full terms and conditions.

www.brightwell.co.uk

www.brightwell-inc.com

MÚLTIPLEX

Multiplex is part of the Brightwell proposal for the dosing of chemical products in industrial laundries and is designed to serve any laundry with a **maximum of 5 washing machines (depending on setup)**.

For the equipment to operate with 5 washing machines, simply configure it with 5 washing machines and use the measuring cup valve as washing machine number five.

Multiplex is a single-pump unit, with an electric diaphragm pump and is designed for a maximum of 6 products. It is possible to extend its capacities by adding additional panels with pump and suction to be able to dose more products and with simultaneous pumps.

The design of the equipment is based on the parameters that govern the entire Multiplex range:

Technical: Industrial design and conception, with the integration of mechanical, electrical and electronic components conceived for continuous tasks and routines.

Flexible: it can be configured and controlled, "in situ" or remotely, from any device, without the need for special applications or programmes.

Secure: Only company-authorised users have access to the equipment, defined by levels and with possible limitation of functions.

Reliable: Control elements and tools -software and hardware- to enable the precision required for dosing in industrial laundries.

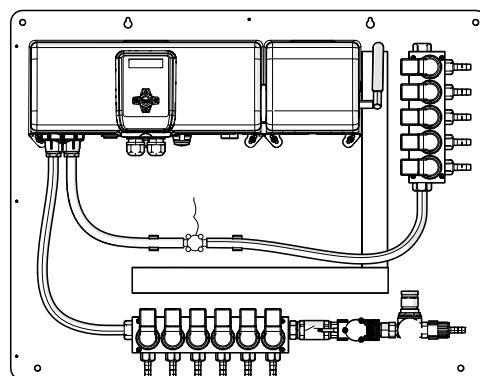
Accurate: Recording of all data to obtain detailed statistics for a correct analysis of consumption, costs, alarms, performance, and production allowing the prognosis and anticipation of possible problems.

Efficient: With routines -software- and elements -hardware- that seek your best performance and effectiveness.

TECHNICAL INFORMATION

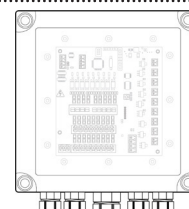
UNIT

MULTIPLEX OPL BUILT IN DISTRIBUTOR (MAIN UNIT)



ACCESSORIES

MULTIPLEX SIGNAL BOX

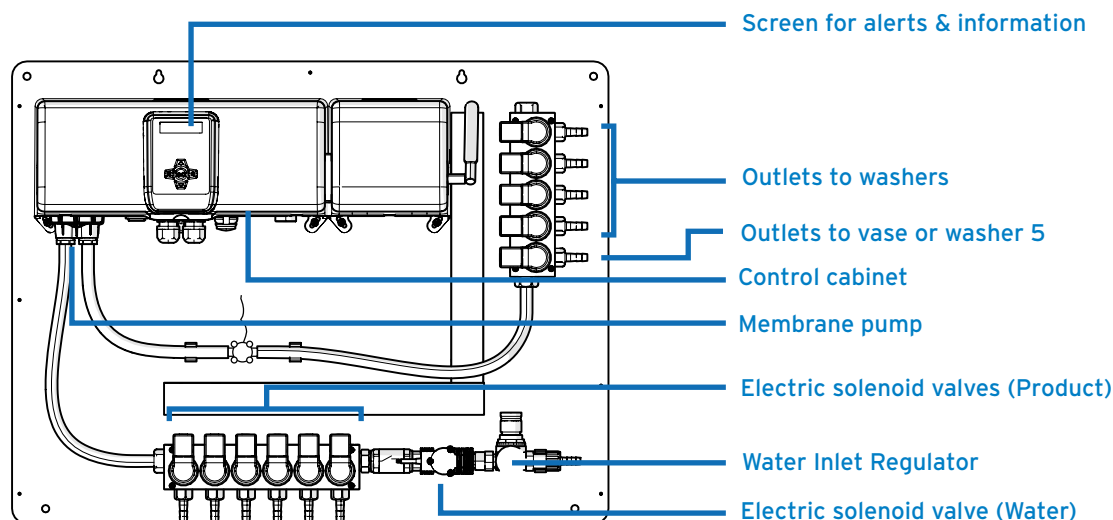


MULTIPLEX SUCTION ROD



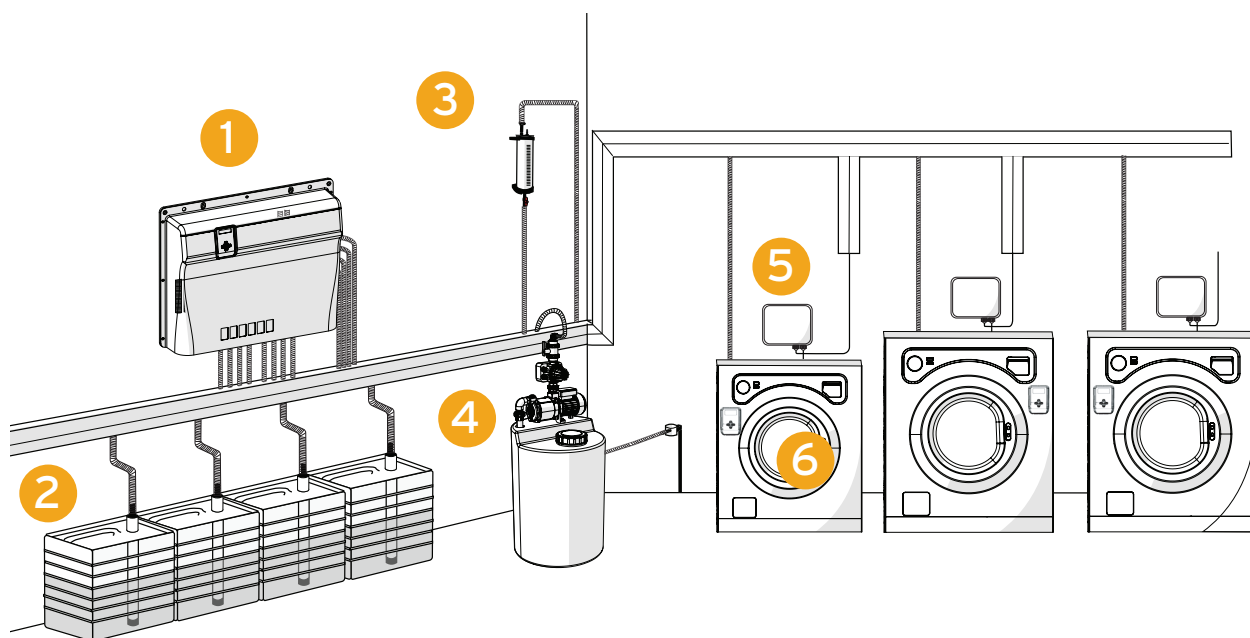
*Brightwell recommends the use of accessories designed to work with Multiplex equipment. Please ask our sales department for more details on these products.

MAIN UNIT DIAGRAM



INSTALLATION AND CONNECTIONS

INTRODUCTION



This image reproduces the 'Standard' setup of a Multiplex OPL unit (your setup will vary based on model), it contains

1. The main unit
2. Suction lances for the chemicals
3. A calibration vase for measuring output
4. A booster tank to regulate water pressure
5. Signal boxes for the washing machines
6. Formula Selectors to manage programs

INSTALLATION AND CONNECTIONS

BEFORE INSTALLATION

- Before beginning installation, ensure you have all necessary items and inspect them for any damage.
- Should you find any missing or defective components, refrain from installing them, as doing so could create a hazardous situation and void the warranty. Instead, return the equipment to the dealer in its original packaging. Installation of this system should only be carried out by qualified personnel in accordance with local regulations.
- Identify a smooth, flat surface near the washing machines for installation.
- It's crucial to note that suction points **should not exceed 5 meters**, thus requiring sufficient space near the chosen point and below where the equipment will be mounted.
- Avoid using elements from existing installations for new wiring. We recommend utilising the material kits provided by Brightwell; consult our sales department for assistance. Regardless, all materials used must meet the specifications outlined in this manual.
- Begin by securely fixing the equipment to the wall, ensuring it is positioned vertically and level. Then mount the communication boxes, placing one near each corresponding washing machine.
- Exercise caution when fixing channels for pipe transportation to prevent excessively sharp bends



Lay out the installation and fix all the elements - equipment, distributor, communication boxes and the necessary installation material - to the wall.



Install pipes and cables using cable ties to ensure that they are securely fastened to avoid pressure surges.



Check the product piping to avoid any possible chokes that could cause an inconvenient flow of the product.



Connect all electrical cables - using ferrules, if possible - and all pipes - using metal clamps.



Install electricity and water supplies (and air, if required).



Communication: Check all communication box connections, configure each box and selector to identify which washer they correspond to. Disconnect the communication connectors leaving only the first box connected.



Check, before raising the circuit breaker, with a multimeter that the incoming voltage is 110-240 VAC / 50-60Hz.



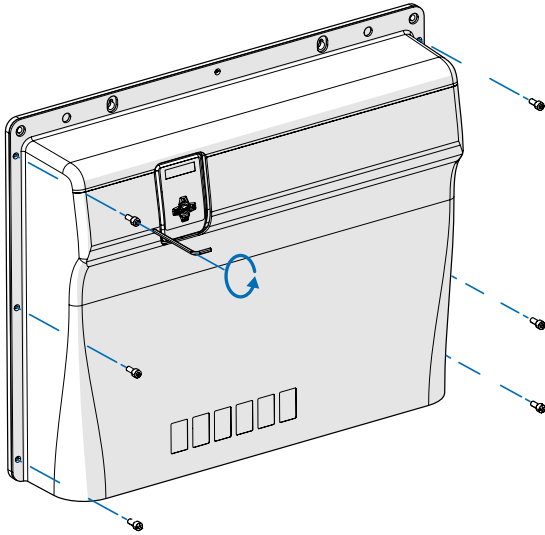
Supply power to the equipment and open the water supply (and air supply, if required).



Check that the supplies are adequate in terms of pressure and flow.

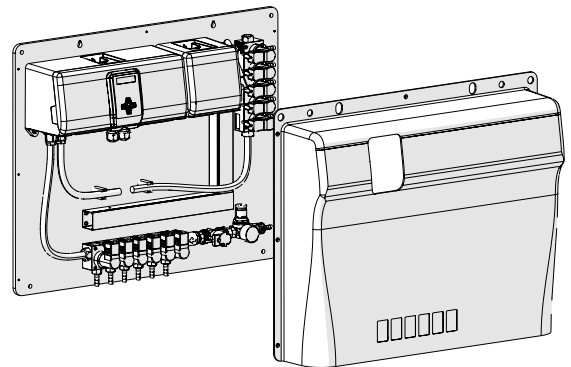
MOUNTING YOUR MULTIPLEX UNIT

1.



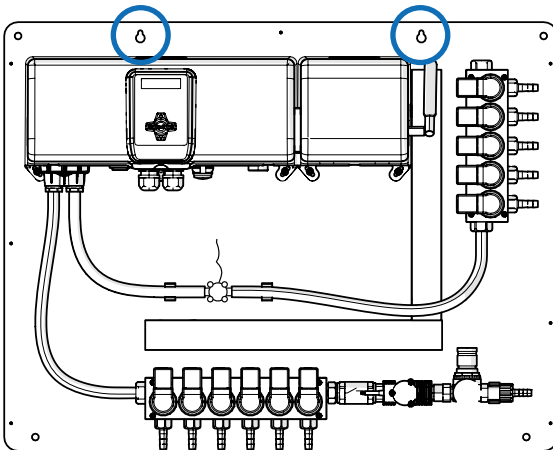
Remove the M6 screws attaching the cover to the OPL unit.

2.



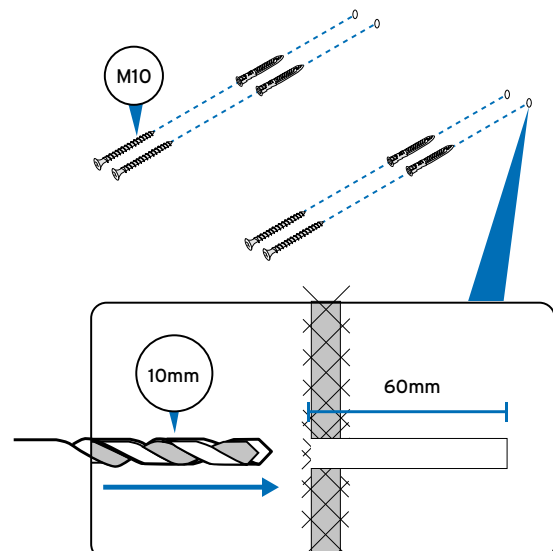
Once all screws are removed, remove the front cover and store safely.

3.



Once all screws are removed, remove the front cover and store safely.

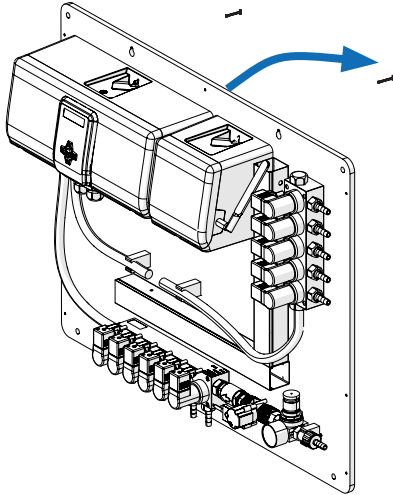
4.



Drill holes into the wall and insert the rawl plugs included. (3/8" / 2.4 in.)

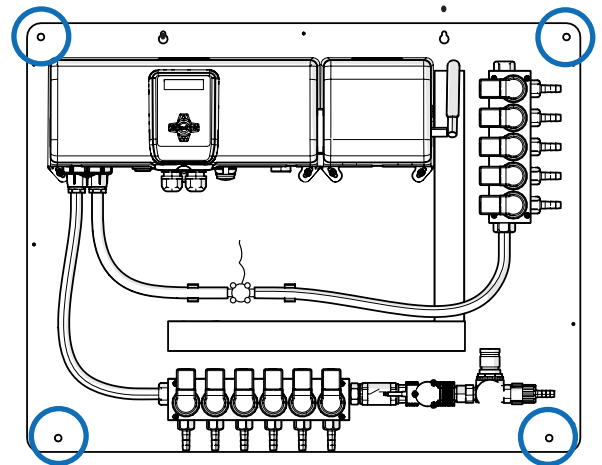
MOUNTING YOUR MULTIPLEX UNIT

5.



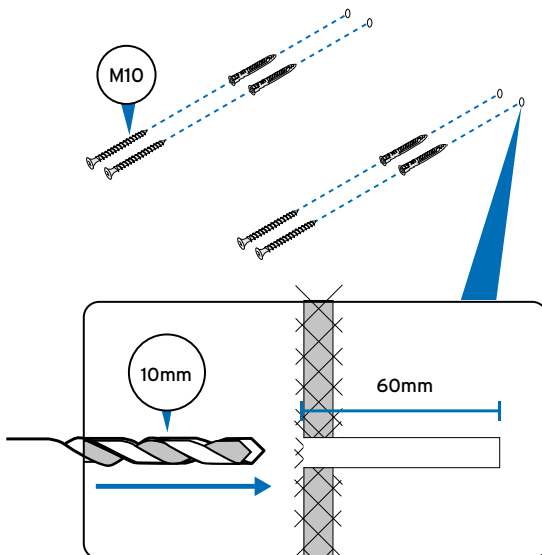
Hook the unit to the wall using the screws before.

6.



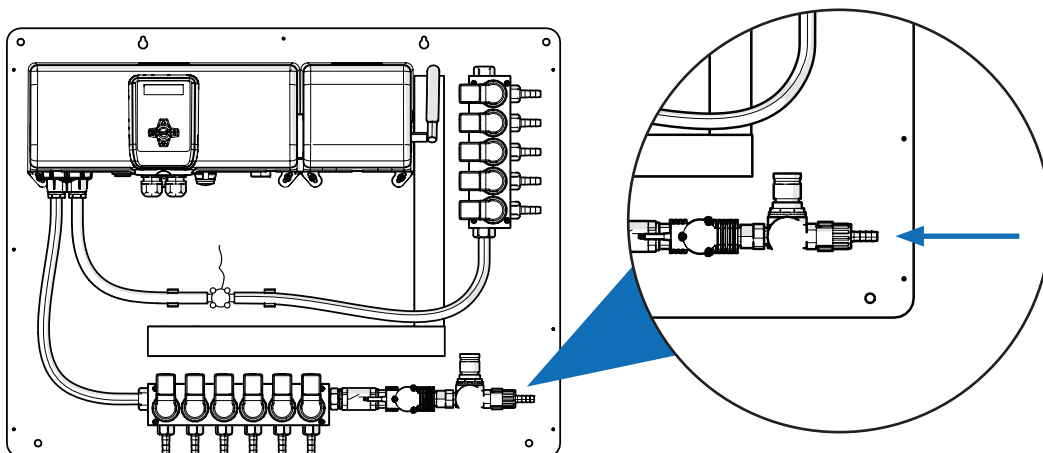
Mark the additional holes.

7.



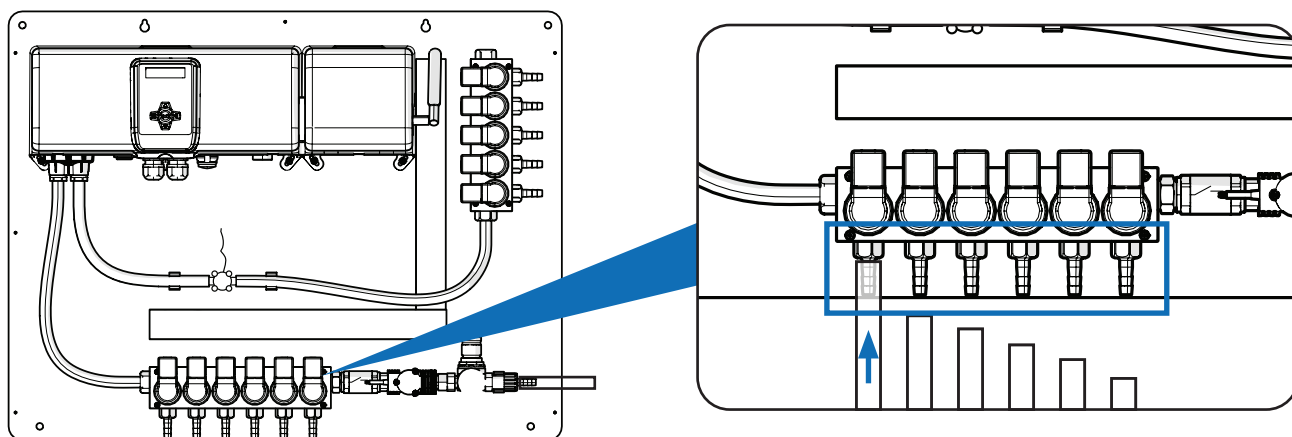
Remove the unit from the wall and insert the additional rawl plugs. (3/8" / 2.4 in.)

CONNECTING WATER TO THE OPL UNIT



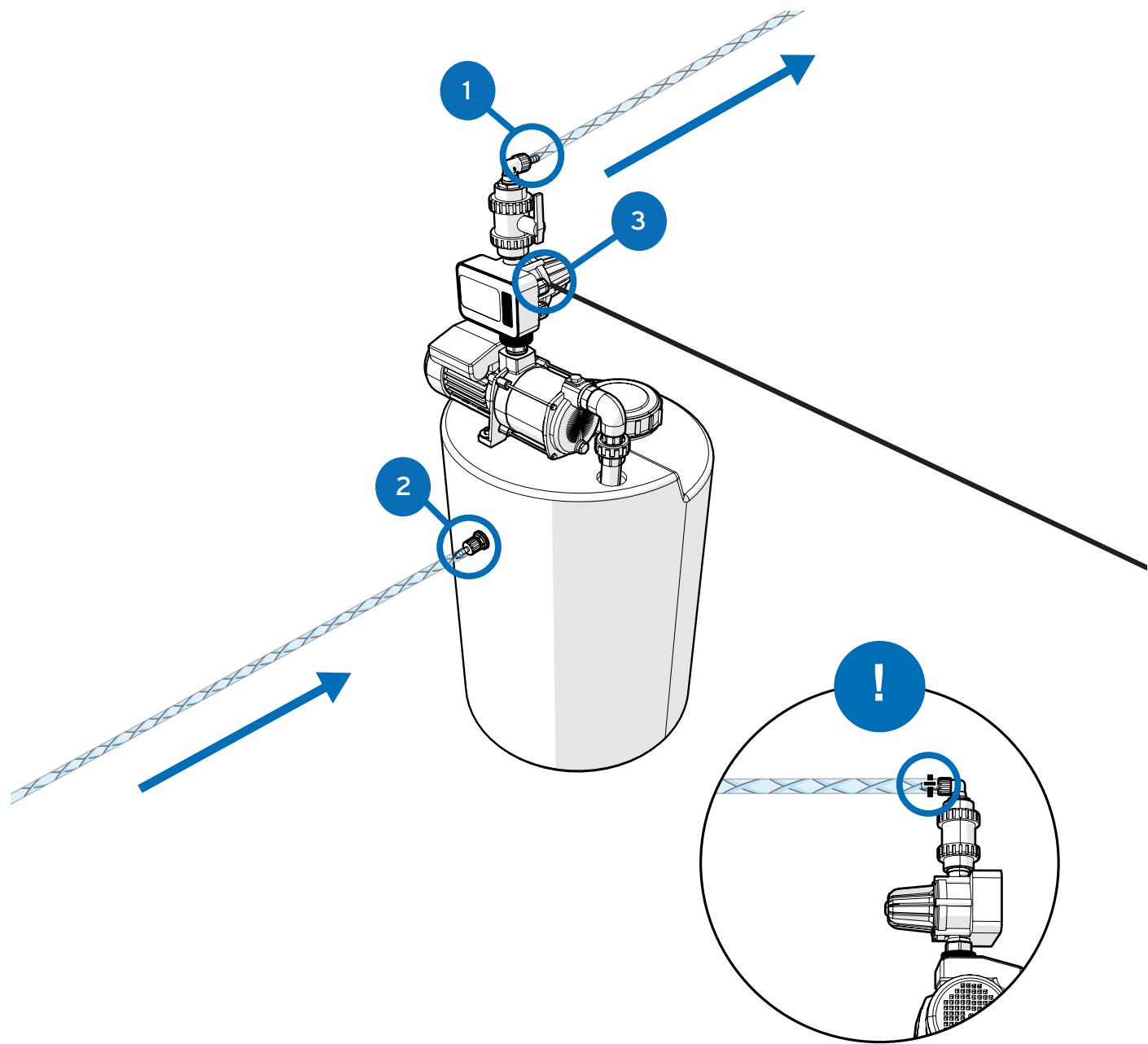
Attach the water to the inlet regulator seen here. It is recommended that you purchase a booster tank to maintain a **constant** pressure rate of 1.8 bars(26 PSI). Use 10x16 braided (3/8" in) PVC pipe and stainless steel clamp.

CONNECTING CHEMICAL TO THE OPL UNIT



Attach the chemicals inlets to the connectors seen here using 10x16 braided (3/8" in) PVC pipe.

BOOSTER TANK CONNECTION (RECOMMENDED)



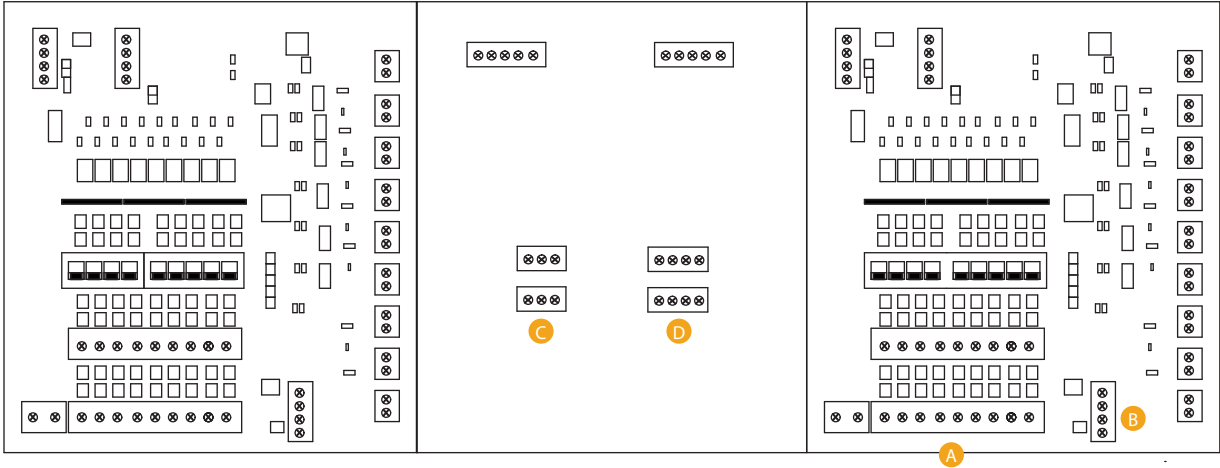
Please note that the unit requires a flow rate of minimum 2 L/min (0.53 GPM) to maximum 10 L/min (2.64 GPM), and a dynamic pressure range of 1.5 bar (21.8 psi) minimum to 3 bar (43.5 psi) maximum. A booster tank is recommended whenever a consistent supply is not available.

Use zip ties or hose clamps on all water connections to avoid leaks.

Please note - If you do not use a booster tank performance values can not be guaranteed by Brightwell.

No.	Description
1	Water Outlet 10mm (3 bar regulated) (3/8" in barbed connector)
2	Water Inlet 10mm (3/8" in barbed connector)
3	110 - 240 v Pump Input

WIRING DIAGRAM



A

- SUCTION LANCE 1
- SUCTION LANCE 2
- SUCTION LANCE 3
- SUCTION LANCE 4
- SUCTION LANCE 5
- SUCTION LANCE 6
- SUCTION LANCE 7
- SUCTION LANCE 8

B

- SUCTION LANCE COMMON (TOP PIN ONLY)

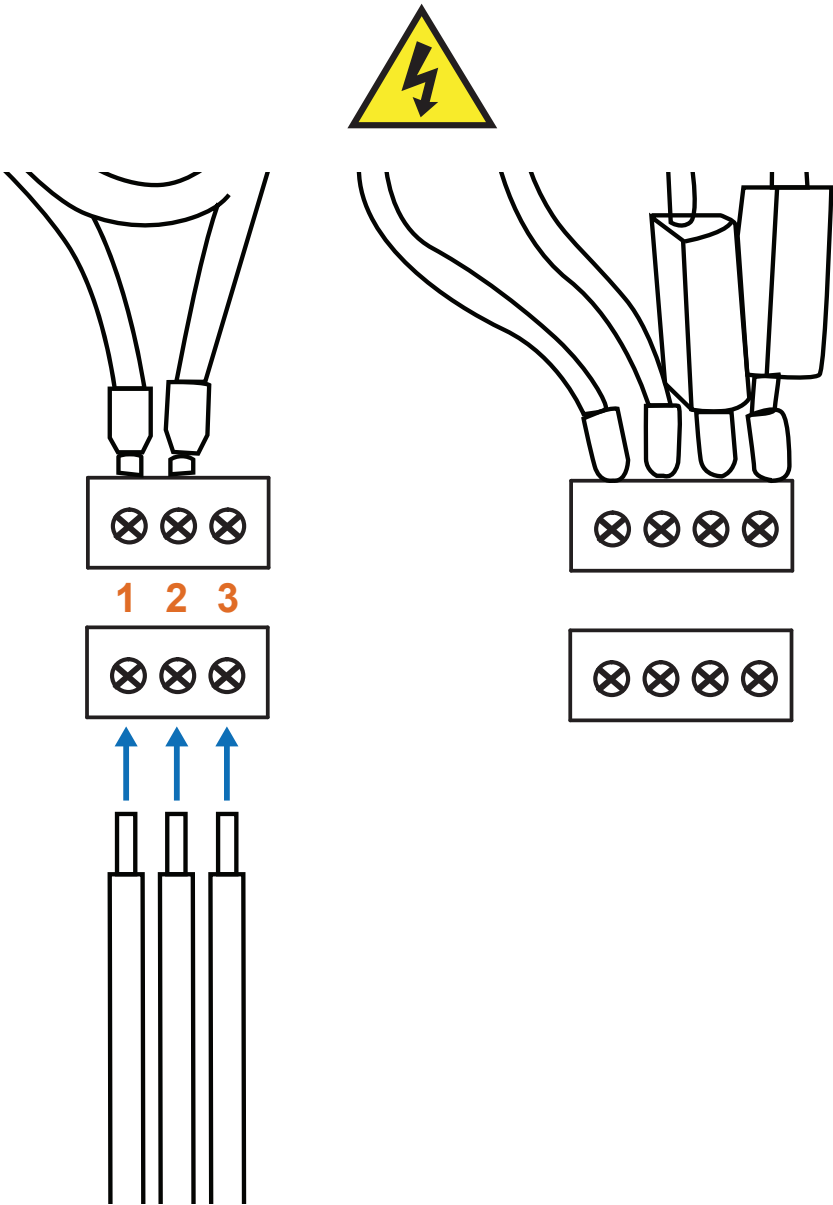
C

- LIVE
- NEUTRAL
- EARTH/GROUND

D

- POSITIVE
- NEGATIVE
- A
- B

WIRING THE POWER

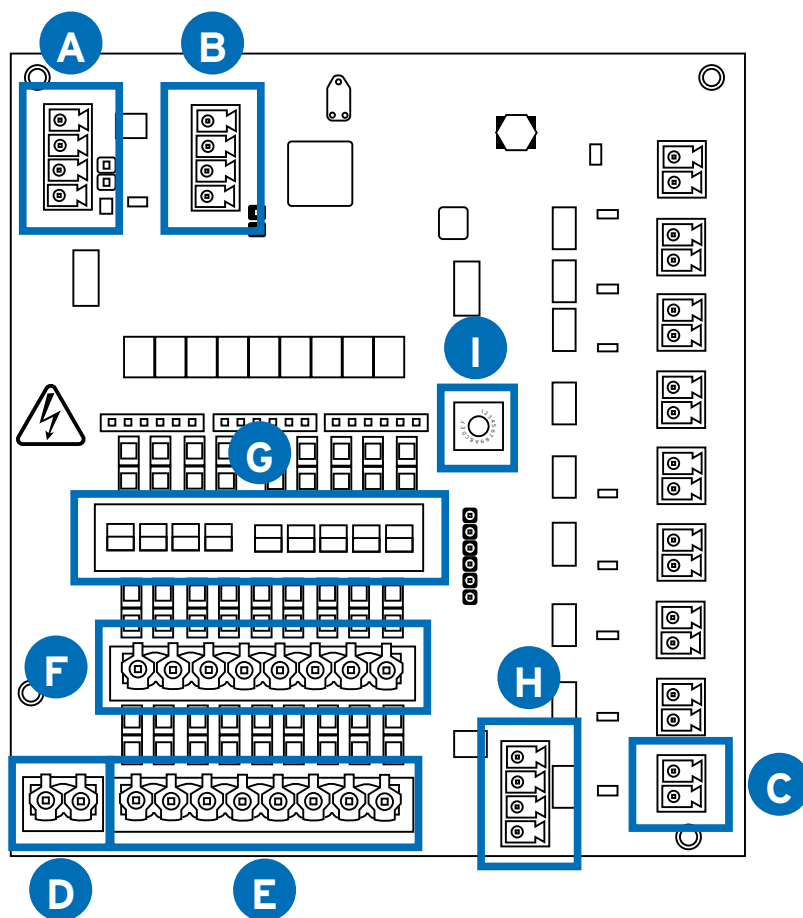


For the power supply of the equipment you must use **3x1'5mm2 cable (3-conductor 16 AWG cable)**. Insert the cable through the channel located at the bottom left and use one of the cable glands to insert it safely inside the control cabinet. Connect to the terminals identified with **X1** found on the lower left of the connections.

The power supply must be suitably protected. Use a specific line for the power supply of the equipment.

Connector	Description
1	LIVE
2	NEUTRAL
3	EARTH/GROUND

PCB CONNECTIONS FOR YOUR SIGNAL BOX



Connector	Description
A	COMMS IN
B	COMMS OUT
C	MACHINE PAUSE
D	COMMON NEUTRAL*
E	SIGNAL/TRIGGER INPUTS*
F	ISOLATED NEUTRAL *
G	COMMON OR ISOLATED DIP SWITCH SELECTOR
H	FORMULA SELECT CONNECTOR
	MACHINE NUMBER ROTARY SELECTOR
I	*Please turn the rotary dial to the machine number in the setup. IE Number 1 = Machine 1 Number 2 = Machine 2

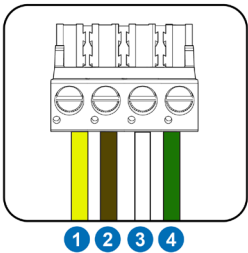
* For the connection between the signal box and laundry machine, you'll need to provide a cable with the correct number of conductors for both signal and neutral transmission.

SIGNAL BOX CONNECTOR WIRING GUIDE

A

COMMS IN

(From the main dosing unit to the signal box)

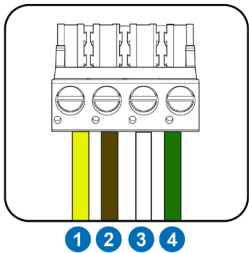


No.	Description
1	24 V +
2	24 V -
3	COMMS A
4	COMMS B

B

COMMS OUT

(To the next signal box in the chain)

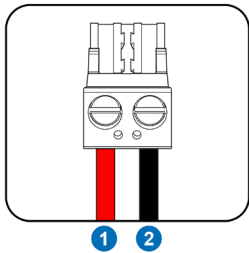


No.	Description
1	24 V +
2	24 V -
3	COMMS A
4	COMMS B

C

VALVE OUTPUTS

(24 VDC)

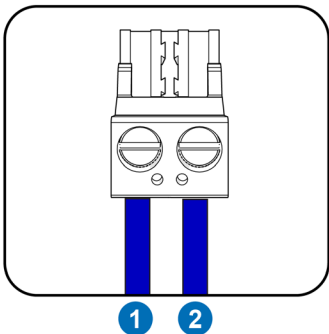


No.	Description
1	24 V +
2	24 V -

D

COMMON NEUTRAL *

(Common neutral input)

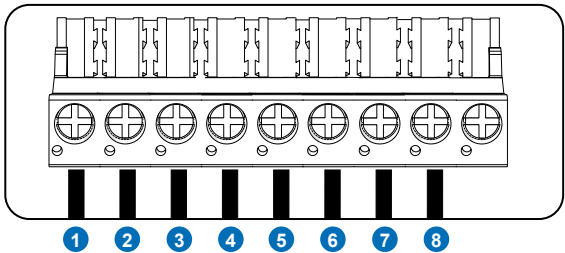


No.	Description
1	COMMON NEUTRAL
2	COMMON NEUTRAL

E

SIGNAL/TRIGGER INPUTS *

(Signal inputs from machine)
(24 - 240 VDC)



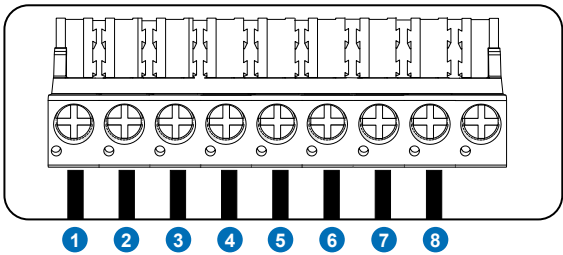
No.	Description
1	SIGNAL/TRIGGER INPUT 1
2	SIGNAL/TRIGGER INPUT 2
3	SIGNAL/TRIGGER INPUT 3
4	SIGNAL/TRIGGER INPUT 4
5	SIGNAL/TRIGGER INPUT 5
6	SIGNAL/TRIGGER INPUT 6
7	SIGNAL/TRIGGER INPUT 7
8	SIGNAL/TRIGGER INPUT 8

SIGNAL BOX CONNECTOR WIRING GUIDE

F

ISOLATED NEUTRAL INPUTS *

(Neutral inputs for isolated signals)
24 - 240 VDC)

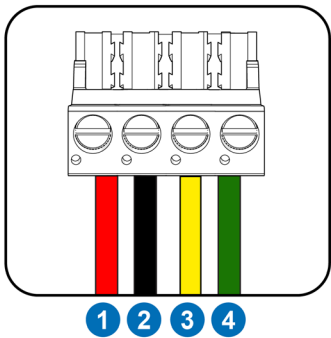


No.	Description
1	ISOLATED NEUTRAL SIGNAL INPUT 1
2	ISOLATED NEUTRAL SIGNAL INPUT 2
3	ISOLATED NEUTRAL SIGNAL INPUT 3
4	ISOLATED NEUTRAL SIGNAL INPUT 4
5	ISOLATED NEUTRAL SIGNAL INPUT 5
6	ISOLATED NEUTRAL SIGNAL INPUT 6
7	ISOLATED NEUTRAL SIGNAL INPUT 7
8	ISOLATED NEUTRAL SIGNAL INPUT 8

H

ENTRADA DE SELECCIÓN DE FÓRMULA

(Formula Select Input)



No.	Description
1	24 V +
2	24 V -
3	COMMS A
4	COMMS B

SIGNAL BOX CONNECTOR WIRING GUIDE

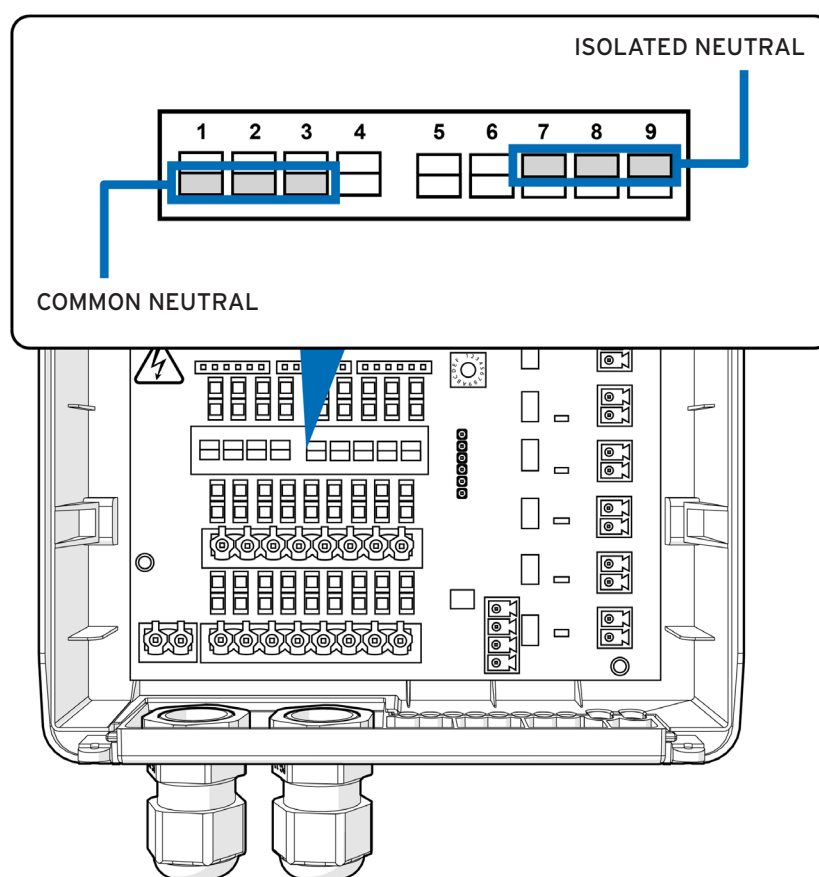
DIP SWITCH CONFIGURATION AND SETUP

To configure the neutral connections, utilise the dip switches positioned above the signal inputs. Set the dip switch to either the **COMMON** or **ISOLATED** position as required. For isolating a trigger signal, move the dip switch to the **TOP** position. Conversely, if it shares a common neutral, move it to the **BOTTOM** position. Here's an example:

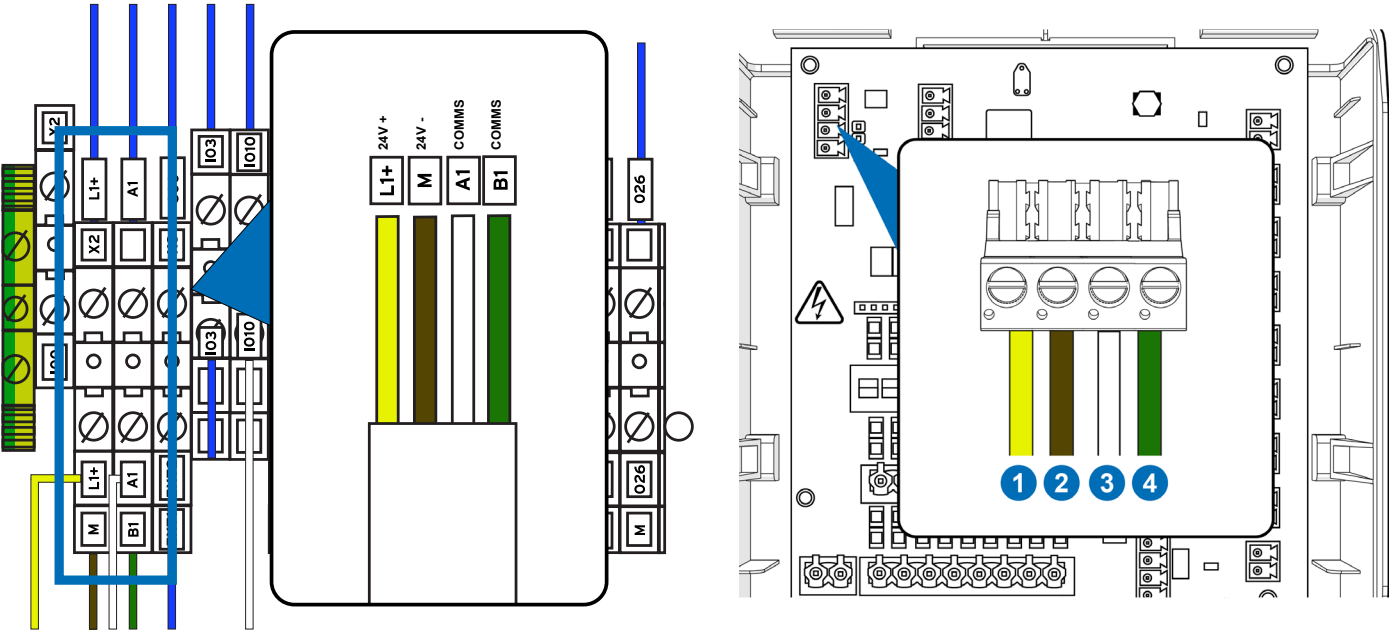
Trigger 1: Isolated - Dip switch 1 set to **TOP**

Trigger 2: Common - Dip switch 2 set to **BOTTOM**

DIAGRAM

G

COMMS WIRING SIGNAL BOX

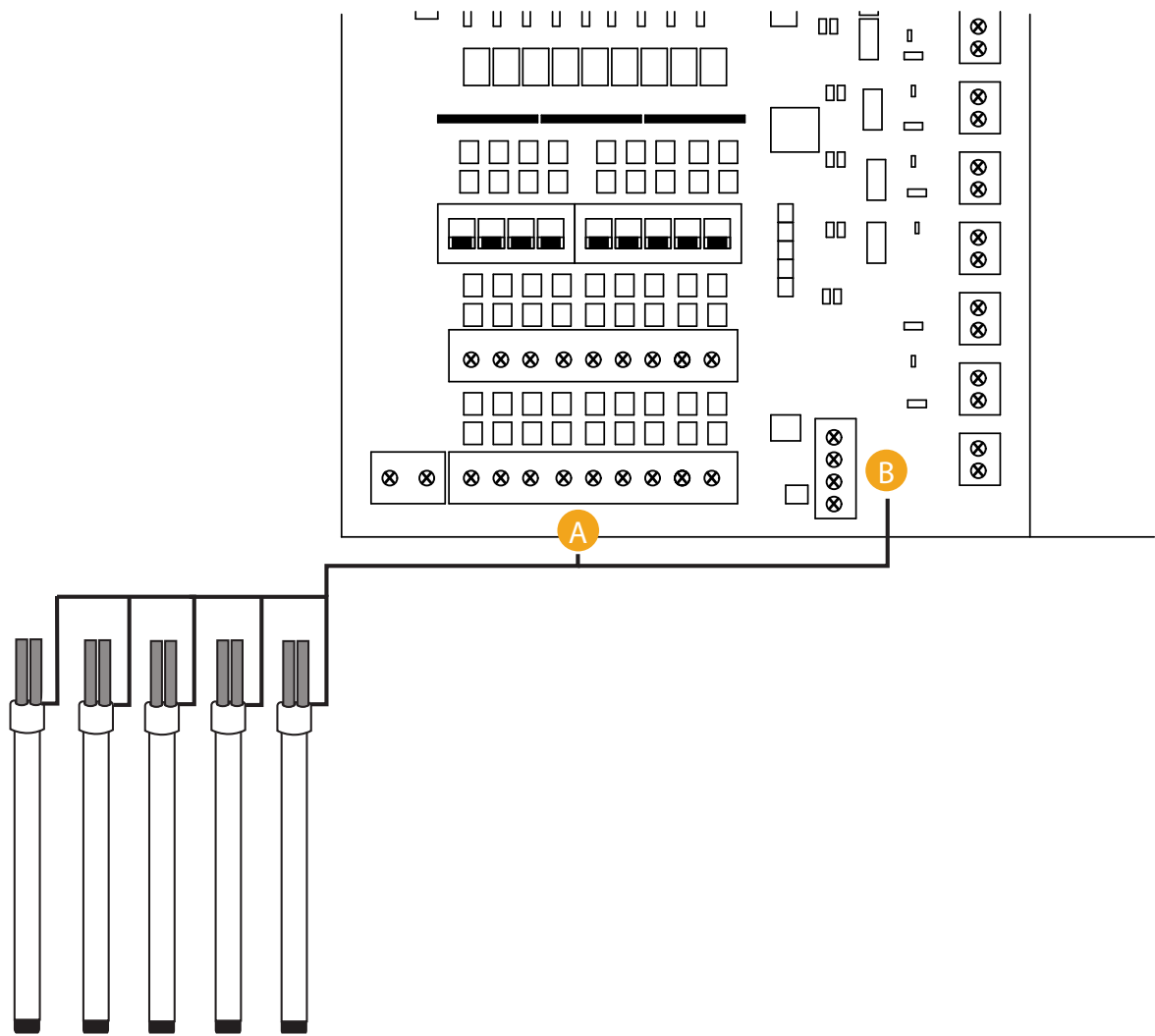


To connect the external communication box to the unit, connect terminal X2 on the main machine to terminal X1 on the communication box.

No.	Description
L1+	24 V +
M	24 V -
A1	COMMS A
B1	COMMS B

No.	Description
1	24 V +
2	24 V -
3	COMMS A
4	COMMS B

ELECTRICAL WIRING SUCTION LANCES

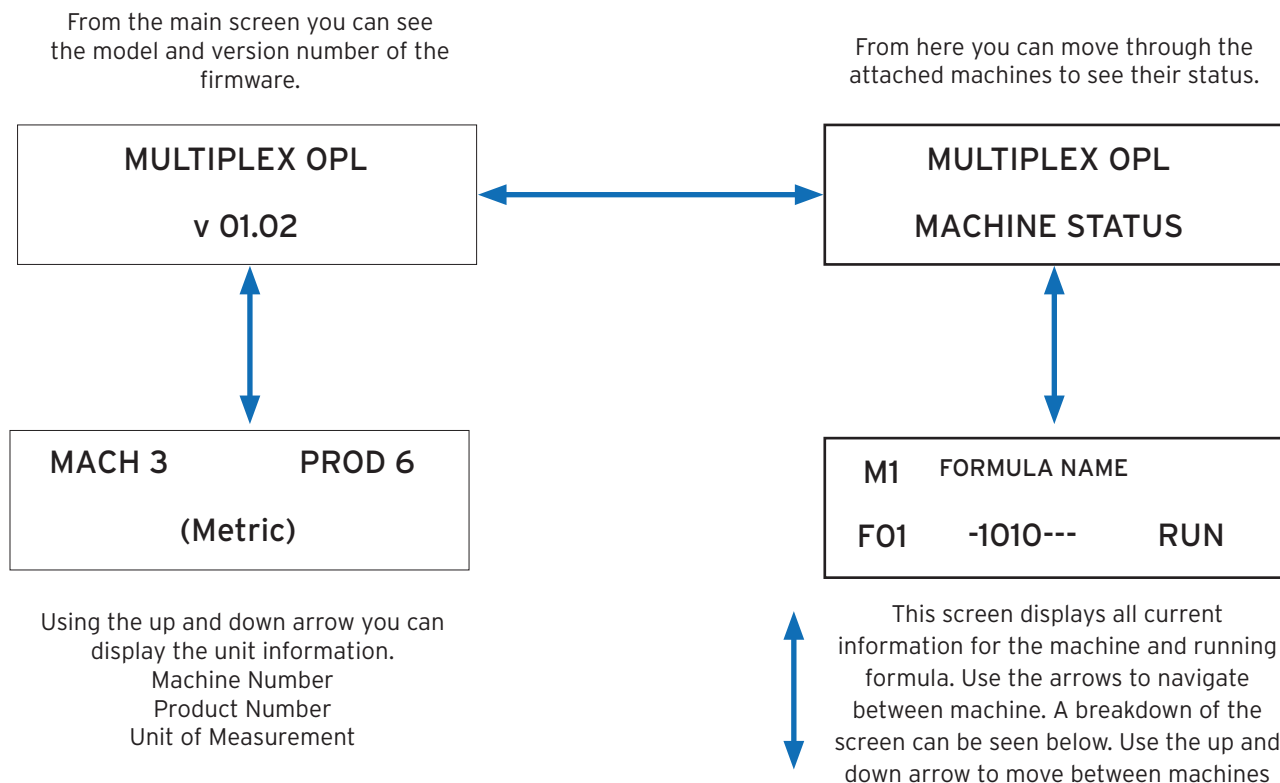


To connect the external suction lances to the machine, utilize inputs as indicated above.

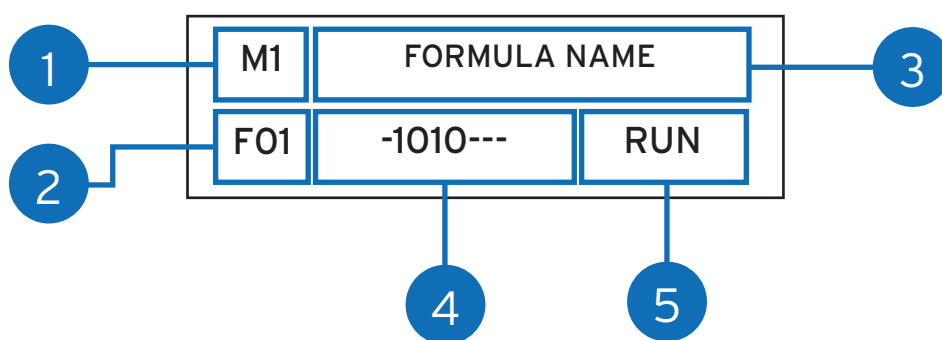
Connection	Rod number
A	SUCTION ROD 1 - 9
B	NEUTRAL (TOP PIN)

MACHINE STATUS AND UNIT INFORMATION

The screen located on your Multiplex OPL unit will allow you to actively see the status of the washers in real time, also displaying any potential issues that may have occurred.



SCREEN BREAKDOWN



1 Displays the machine number

2 Displays the machine number

3 Displays the name of the formula

4 Displays the programmed phases with the following symbols

(-) A dash represents a non programmed phase

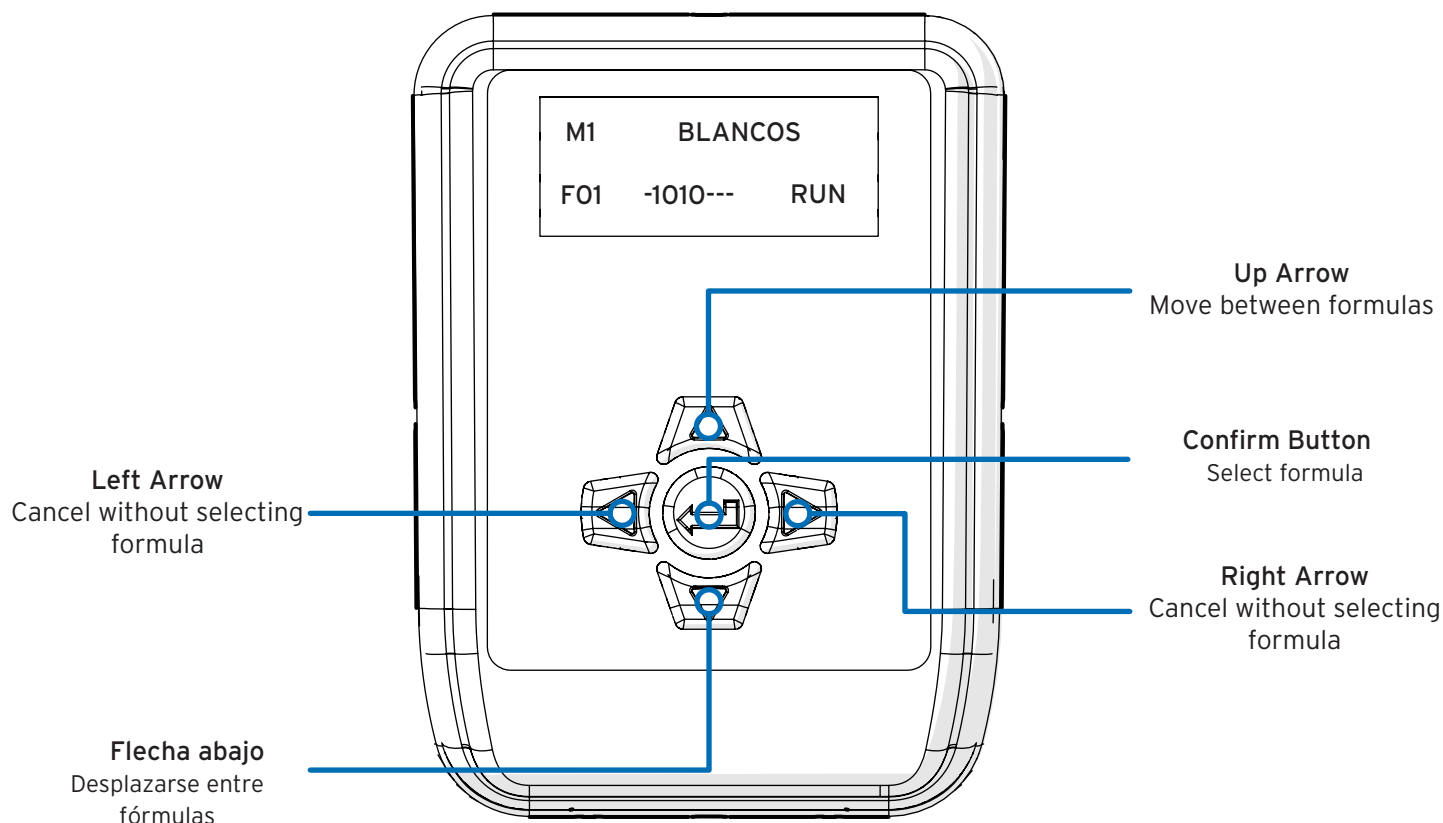
(1) Displays expected phases

(1) Displays received phases

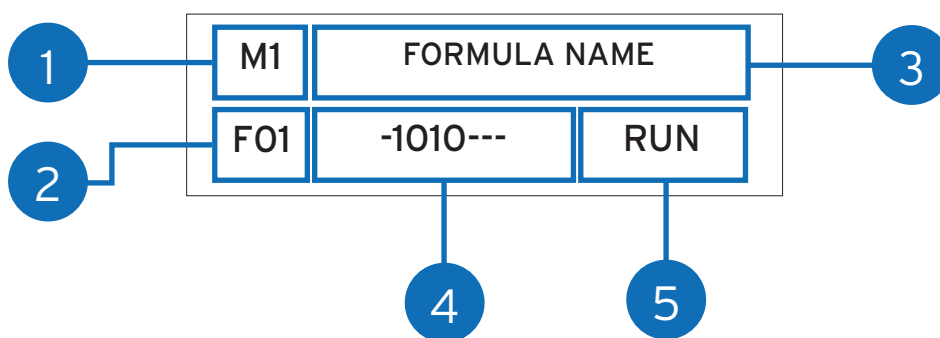
5 Shows the run status. **RUN** for running. **END** for completed. **HLD** for held.

FORMULA SELECTOR

The screen located on your Formula Selector Module will allow you to actively see the status of the washers and wash programs.



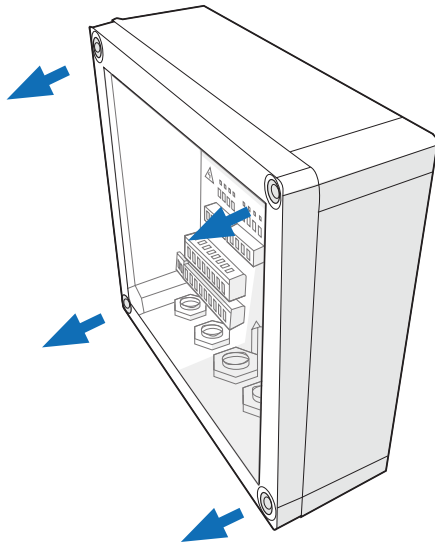
SCREEN BREAKDOWN



- 1 Displays the machine number
- 2 Displays the formula number
- 3 Displays the name of the formula
- 4 Displays the programmed phases with the following symbols
 - (-) A dash represents a non programmed phase
 - (1) Displays expected phases
 - (1) Displays received phases
- 5 Shows the run status. **RUN** for running. **END** for completed. **HLD** for held.

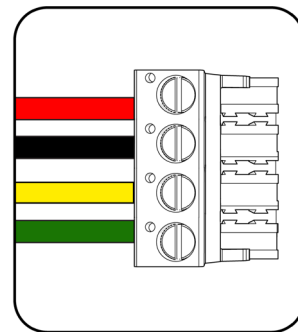
FORMULA SELECTOR

1.



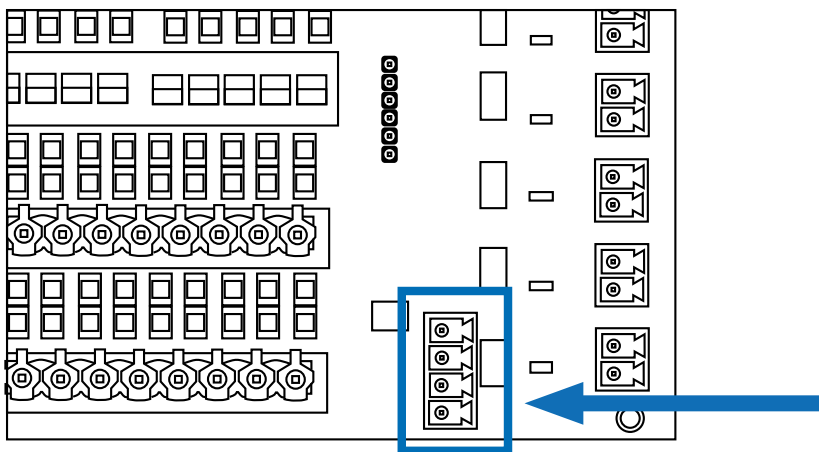
Remove the cover from your Signal Box.

2.



Wire your 4 way connector as shown.

3.

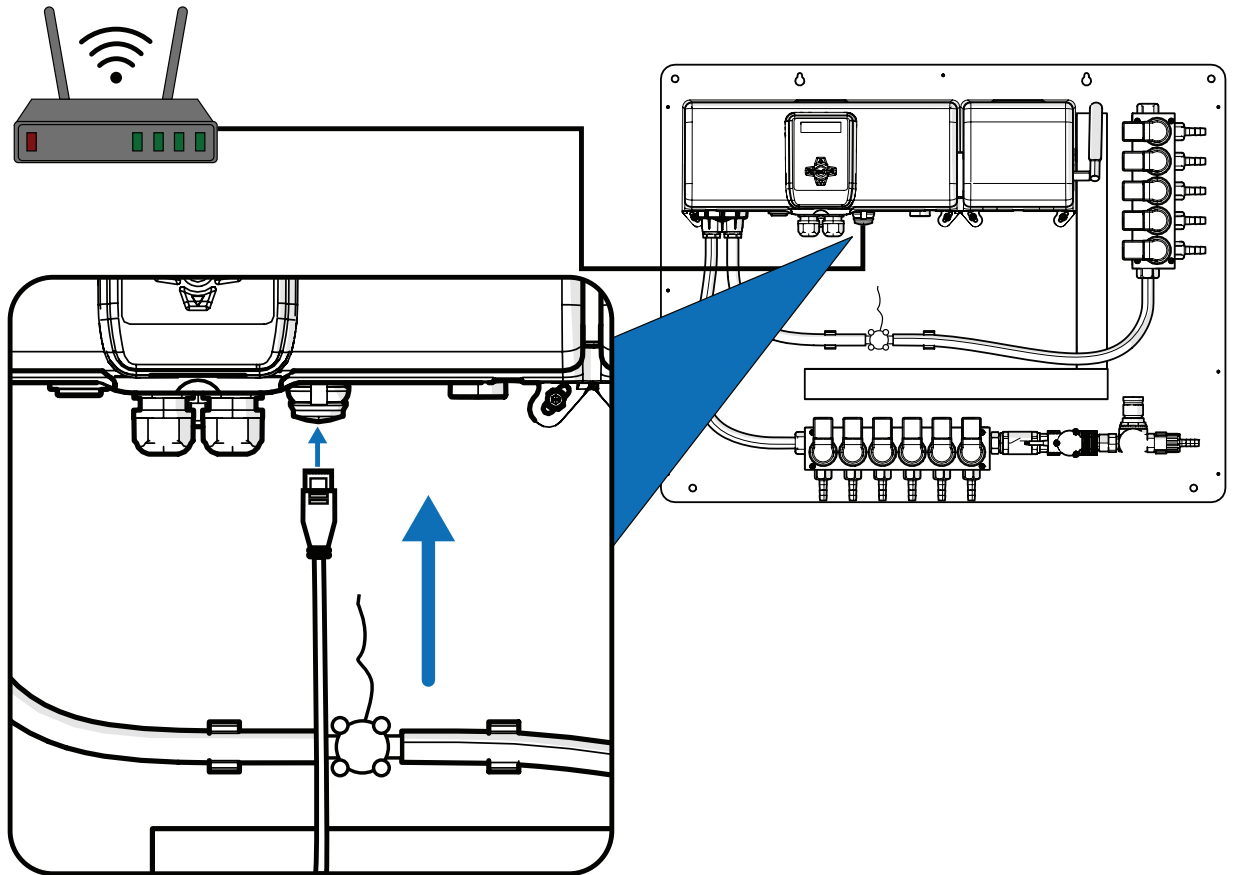


Wire your 4 way connector as shown.

ALERT INFORMATION

Alert Screen	Description
EMERGENCY ALARM	Indicates a critical emergency that requires immediate attention. Examples include 'AIR PRESSURE FAILED!!' or 'EMERGENCY STOP LOCKED!!'
LEAK TEST ALARM	Indicates that the unit has failed the leak test and should be inspected.
WATER TEST ALARM	Indicates a problem during the water test, identifying the specific channel (e.g., 'WATER TEST CHANNEL 2')
WATER FLUSH ALARM	Alerts when there is a timeout during the water flush process, with the affected channel noted (e.g., 'FLUSH TIMEOUT CHANNEL 1').
PRODUCT DOSAGE ALARM	Notifies of a timeout in product dosing.
PRODUCT LOW-LEVEL ALARM	Warns that the product level is low, with the specific product name to be displayed.

CONNECTING YOUR UNIT TO THE INTERNET

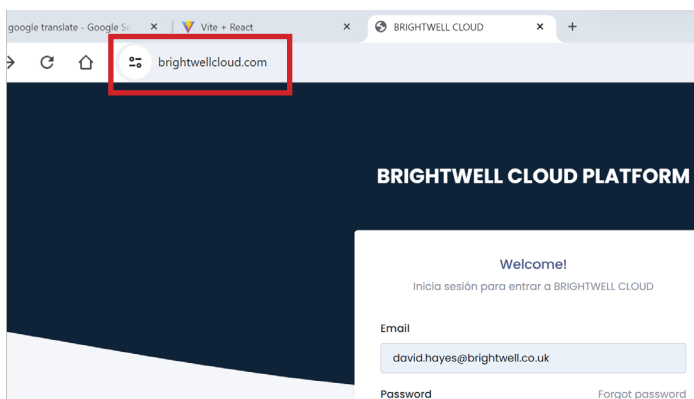


To connect your OPL unit to the internet please use an Ethernet cable and insert into the connector shown here.

CONNECTING TO THE CLOUD

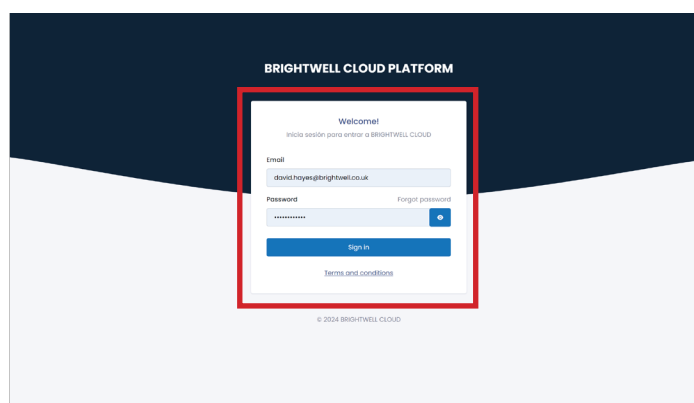
STEP 1

Navigate to <http://brightwellcloud.com> using a suitable web browser.



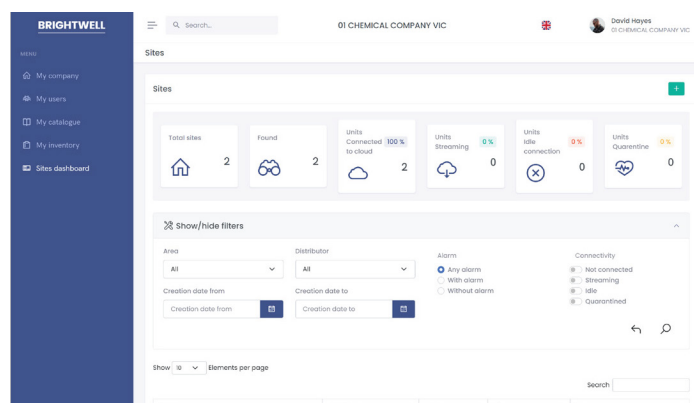
STEP 2

Enter the log in details for your account. (These will be provided to you during the ordering process. Please contact your Brightwell representative if you do not have these).



STEP 3

You will now see the main drop page for your Multiplex setup. We will break down the navigation options below.



HOME PAGE OVERVIEW

The screenshot shows the Brightwell home page overview. The interface includes a side menu, a top navigation bar, a main content area with a 'Sites' dashboard, a filter section, and a table of units.

1 This will shrink or expand the side menu

2 Here you can quickly search for units, sites or customers

3 If you need to change the language use this icon

4 For profile settings or to logout press here

5 The side menu lets you move between the different sections of the portal

6 To add a new site to your system, press this green icon

7 Is a quick overview of your units and statistics

8 To filter the below list of sites use this box to set up your chosen parameters

9 Another search bar to quickly filter your units

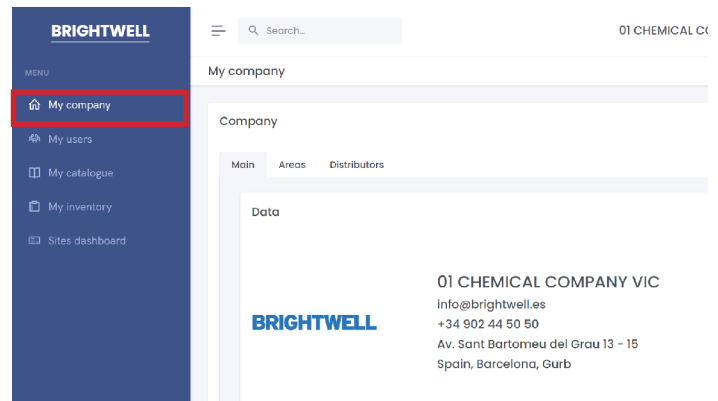
10 This lists all current units attached to your Portal system

- 1** This will shrink or expand the side menu
- 2** Here you can quickly search for units, sites or customers
- 3** If you need to change the language use this icon
- 4** For profile settings or to logout press here
- 5** The side menu lets you move between the different sections of the portal
- 6** To add a new site to your system, press this green icon
- 7** Is a quick overview of your units and statistics
- 8** To filter the below list of sites use this box to set up your chosen parameters
- 9** Another search bar to quickly filter your units
- 10** This lists all current units attached to your Portal system

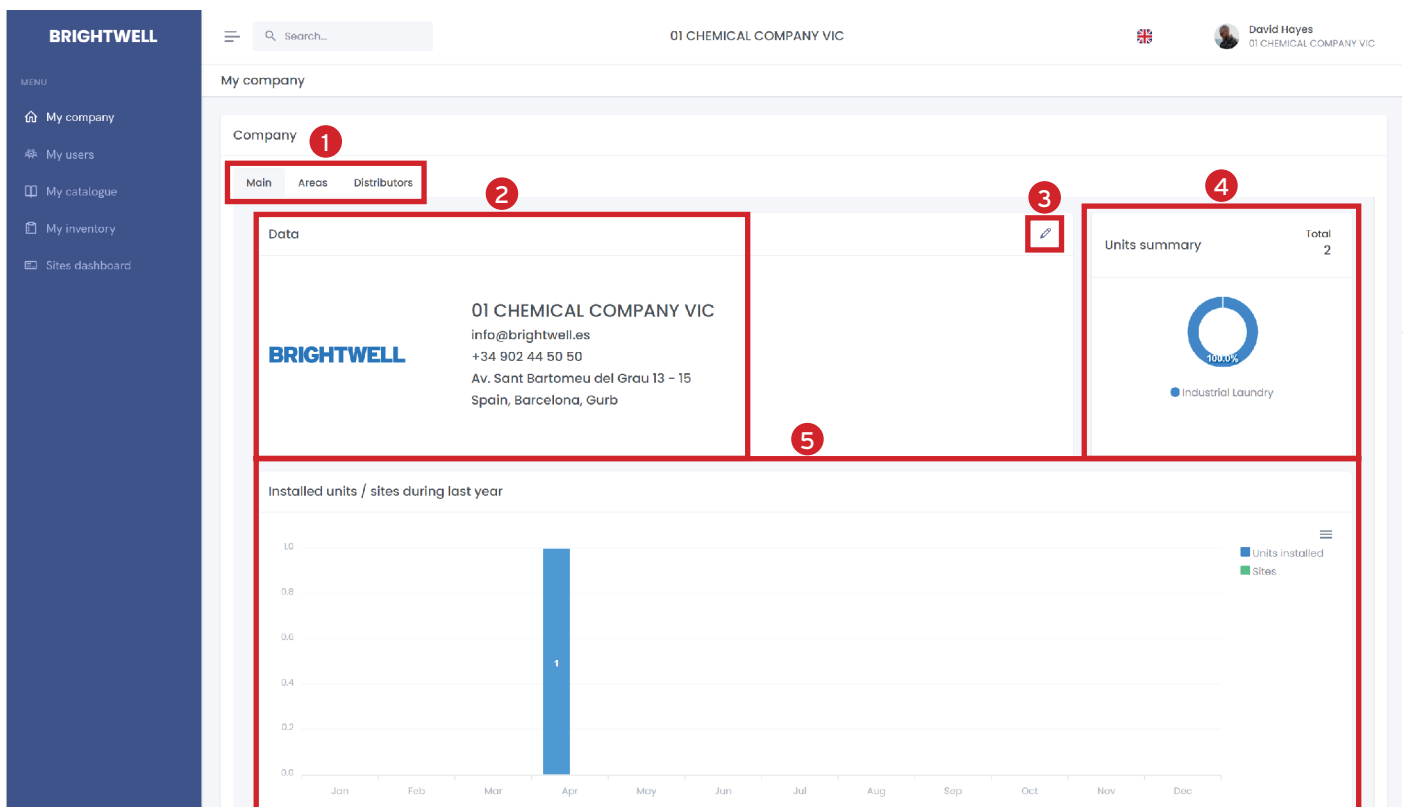
ACCESSING YOUR COMPANY

STEP 1

To access your company settings use the **My Company** icon in the side navigation bar.



MY COMPANY OVERVIEW

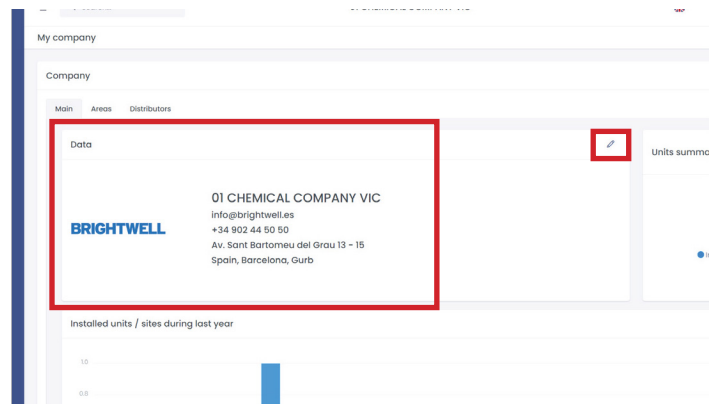


- 1 These tabs allow you to move between the Main page, Areas and Distributors linked to your company
- 2 Here you can see your current company details
- 3 Is the edit icon allowing you to change your company details
- 4 This is a quick overview of your units
- 5 Is a graph showing number of installations in the previous year

EDITING YOUR COMPANY SETTINGS

STEP 1

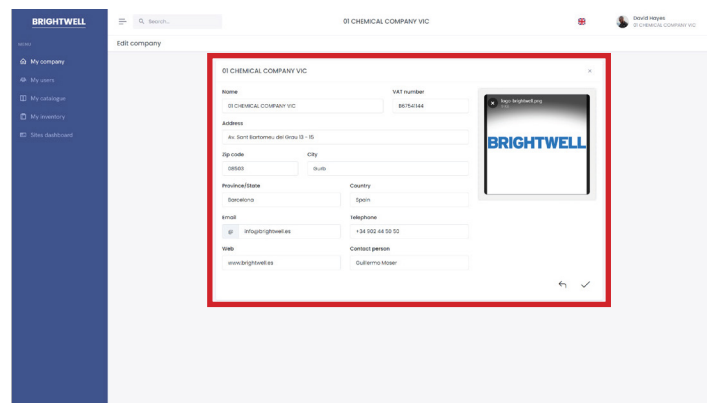
To edit the main company details seen here, press the **Edit icon** in the top right of the tile.



STEP 2

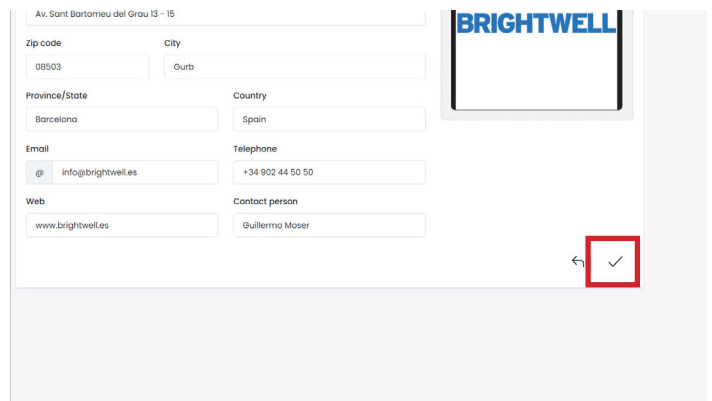
You can now edit the following fields;

- Name
- VAT number
- Address
- Email
- Telephone
- Website
- Contact
- Logo



STEP 3

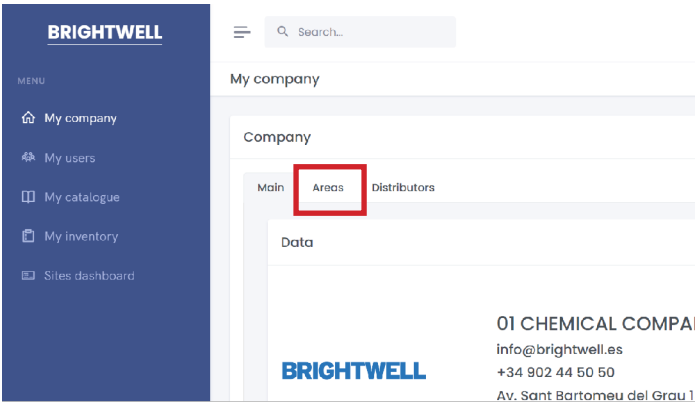
When you have finished the changes press the **Tick icon** to save.



ADDING OR EDITING NEW AREA

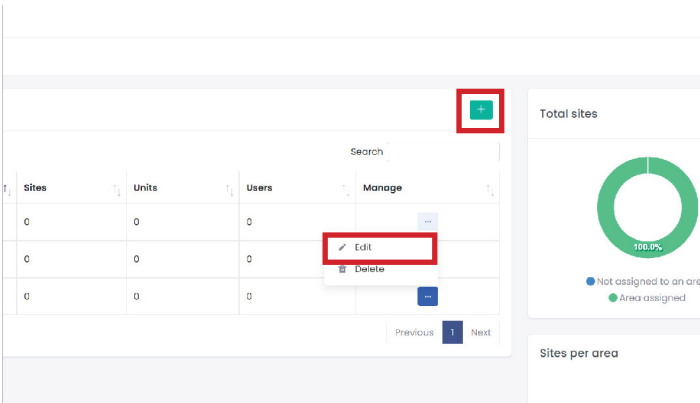
STEP 1

To open the [Areas](#) screen for your company press the [Areas](#) tab at the top here.



STEP 2

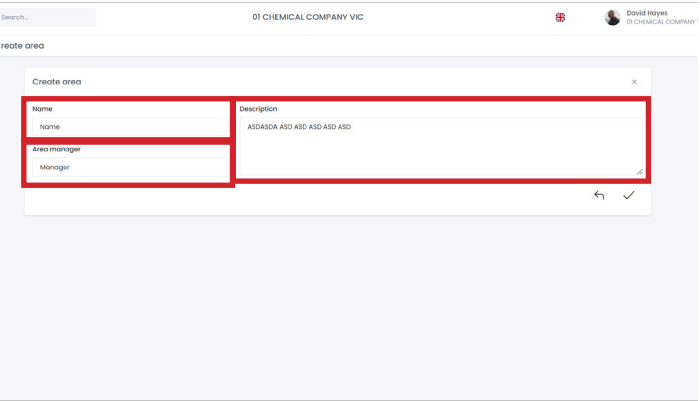
To add a new area press the + icon seen on the right hand side of the tile. To edit an existing area press the 3 dots next to the area you wish to change. A pop up menu will appear and you can select **Edit**.



STEP 3

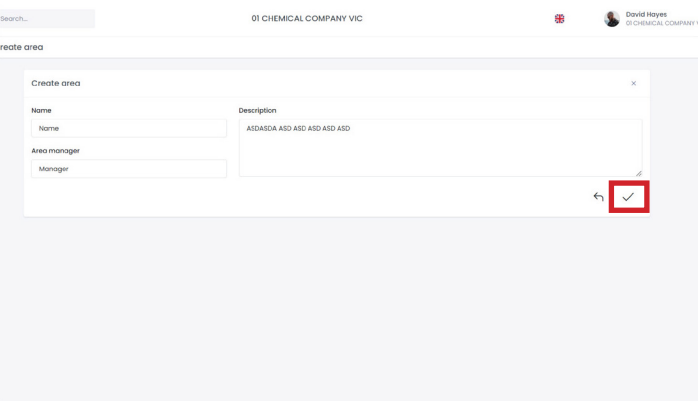
Use the fields provided to set the following details;

- Name
- Area percentage
- Description



STEP 4

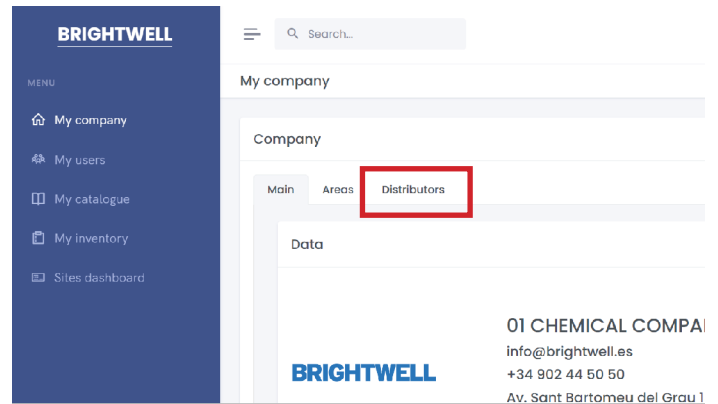
Once you are happy press the Tick icon to save these settings and create your site.



ADDING OR EDITING AN EXISTING DISTRIBUTOR

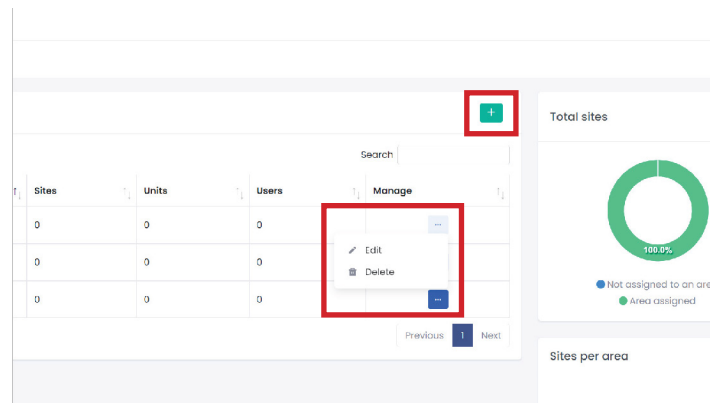
STEP 1

To open the [Distributor](#) screen for your company press the [Distributor](#) tab at the top here.



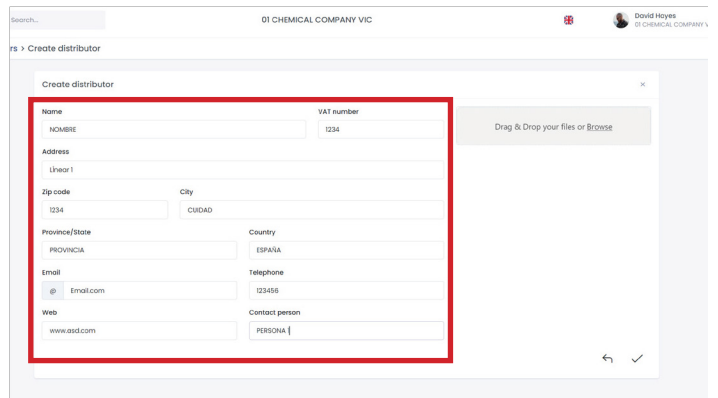
STEP 2

To add a new distributor press the **+** icon seen in the left hand side of the tile seen here. To edit an existing distributor press the **3 dots** next to the area you wish to change. A pop up menu will appear and you can select **Edit**.



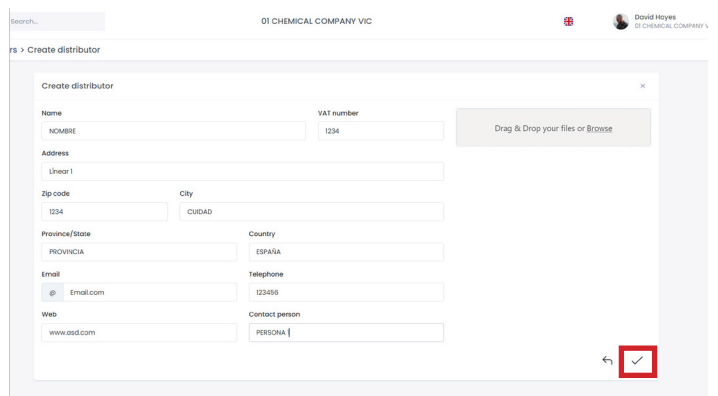
STEP 3

Use the fields provided to add the details of your new Distributor, including an icon if required



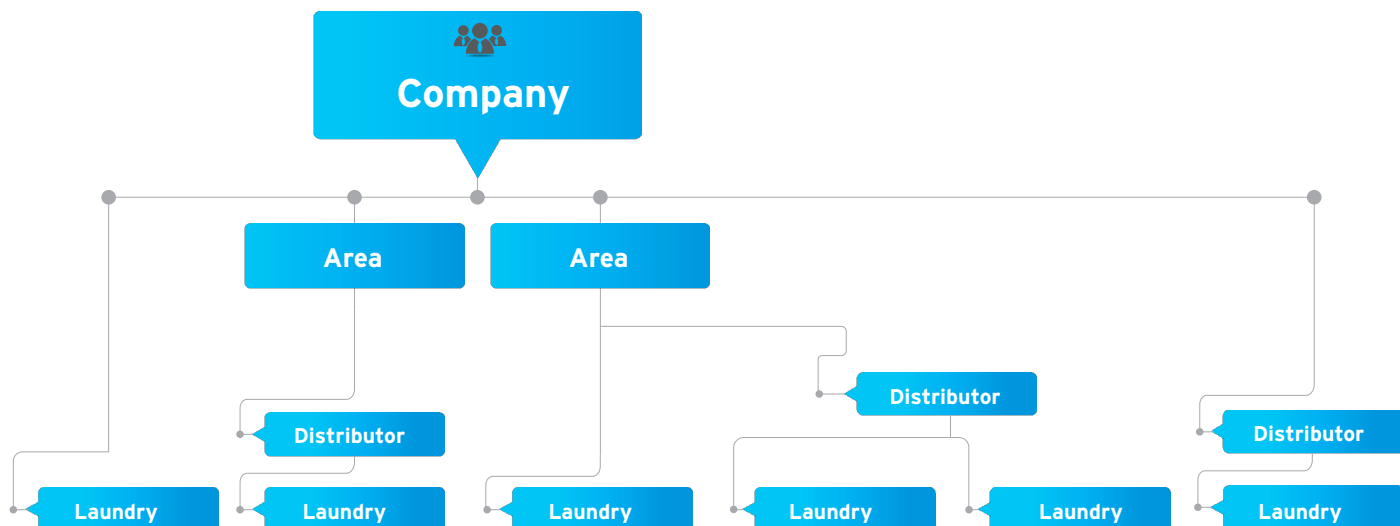
STEP 4

Once you are happy press the Tick icon to save these settings and create your distributor



ACCOUNT PERMISSIONS AND SECURITY

The Multiplex cloud system implements a tiered security system for your company and its users, ensuring that only relevant information and access are enabled for accounts further down the chain. This is explained further in the flowchart below.



Area: Refers to a geographic area or a specific customer that extends over a wide region and is served exclusively by someone without their own customer base.

Laundry: There can also be laundries serviced directly by your company, which will only be accessible via accounts directly linked to your company account.

Distributor: These are your customers who may be hosted within a larger Area account or directly connected to your company.

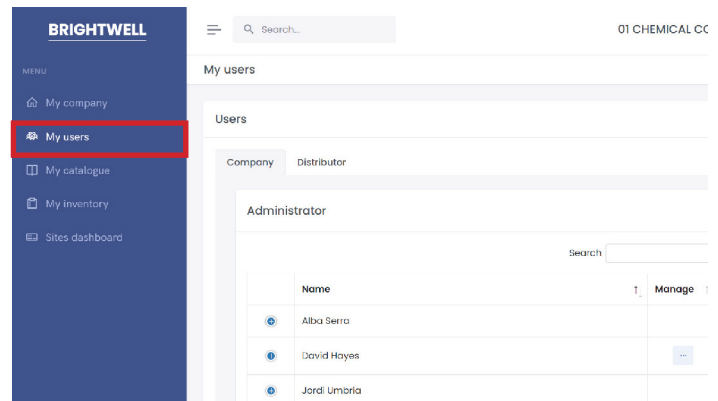
User Accounts: We offer two levels of user accounts for each of the four levels (Administrator and user), each with its own permissions. A user account can create accounts on the levels directly below it, allowing you to build a hierarchical structure that integrates with the existing system.

All of the above can be modified at any time using the Portal, allowing for complete customization of how you manage your cloud structure to perfectly fit your customer needs.

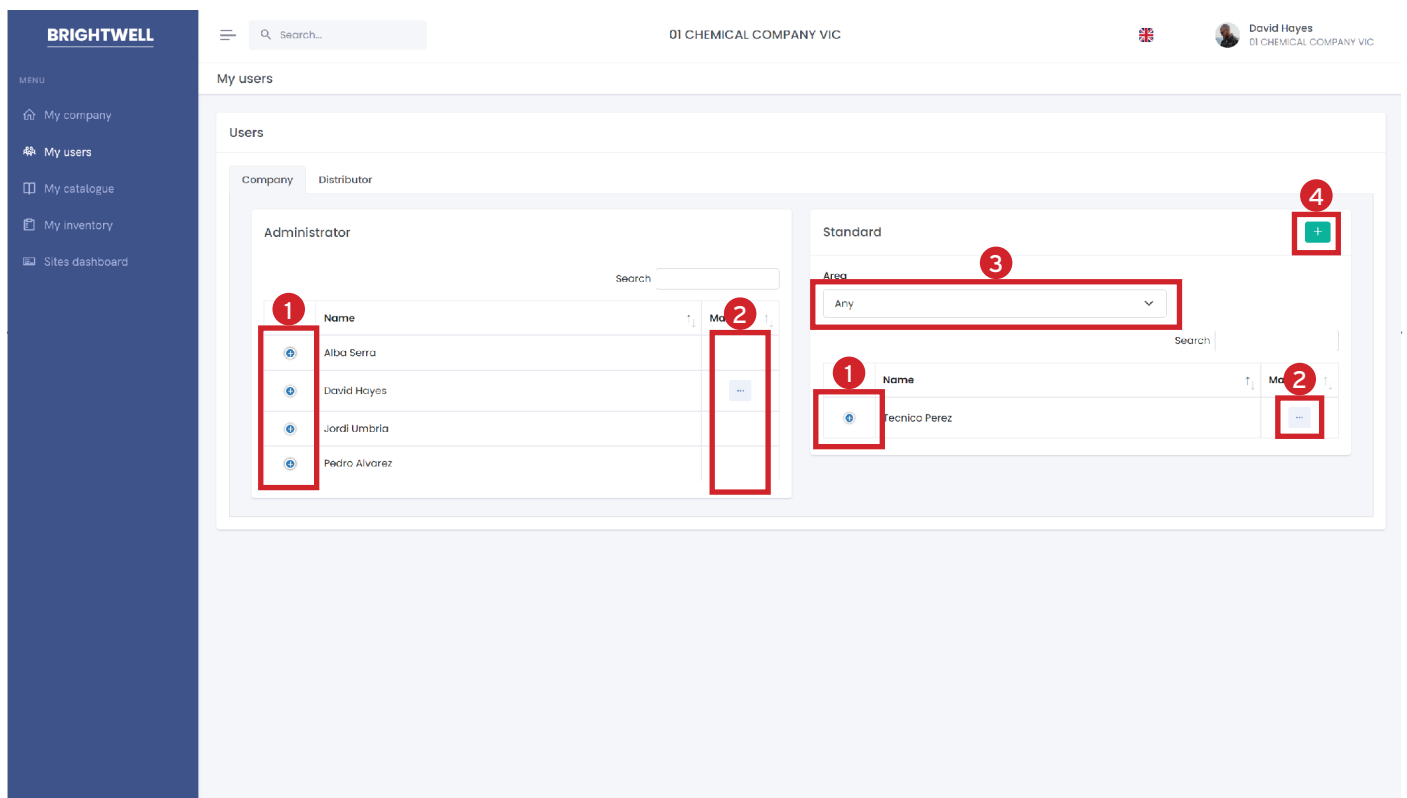
ACCESSING YOUR USERS

STEP 1

To access your user settings use the **My Users** icon in the side navigation.



MY USERS OVERVIEW

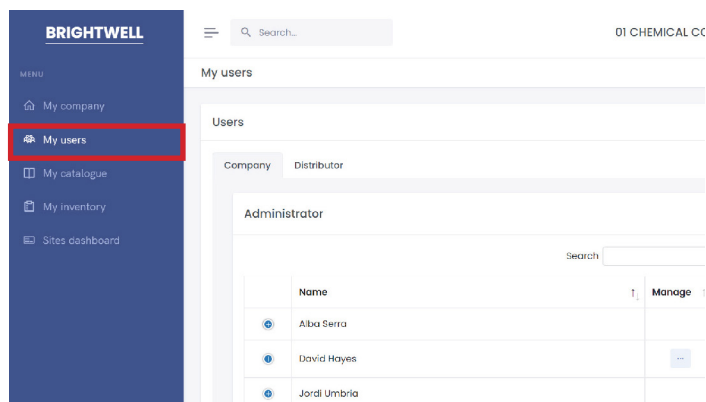


- 1 Expands to show the details for the user accounts
- 2 The three dots allow you to edit the specific user account
- 3 The drop down will allow you to filter the standard users by their account
- 4 Allows you to add a new user to the customer account

EDITING YOUR USER ACCOUNT

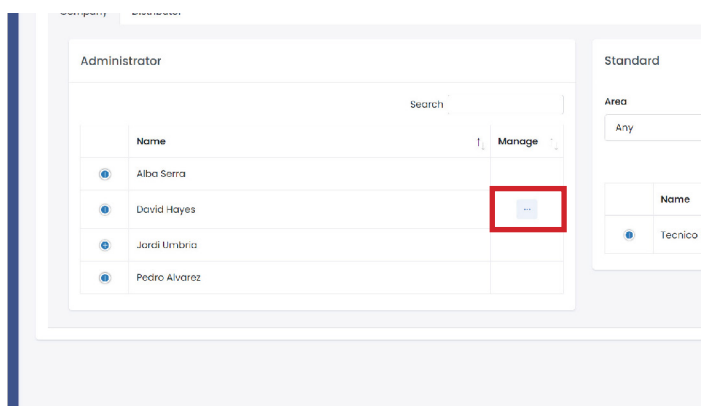
STEP 1

To edit your user account open the **My Users** menu from the navigation bar here.



STEP 2

Locate your account and press the **3 dots** located next to it to open the edit menu.

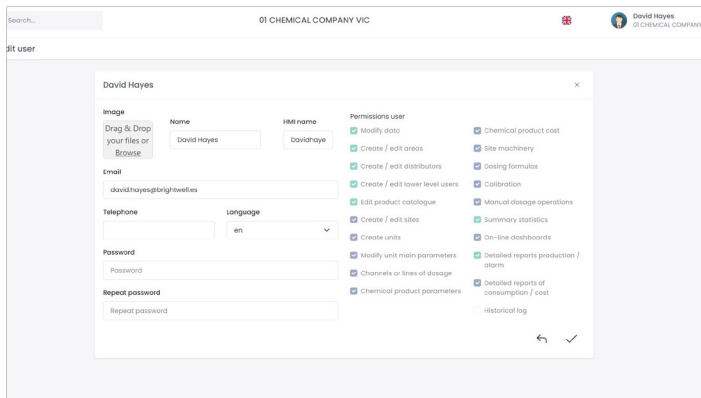


STEP 3

You can now adjust the settings for your account including:

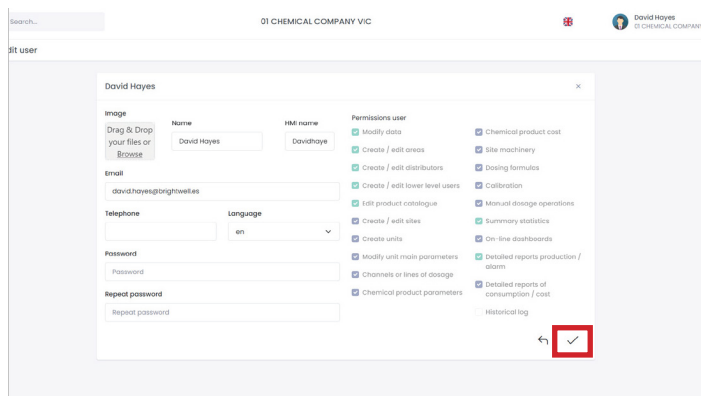
- Setting a photo
- Name and HMI name
- Email
- Telephone
- Language
- Password

You are also able to see your account permissions on the right.



STEP 4

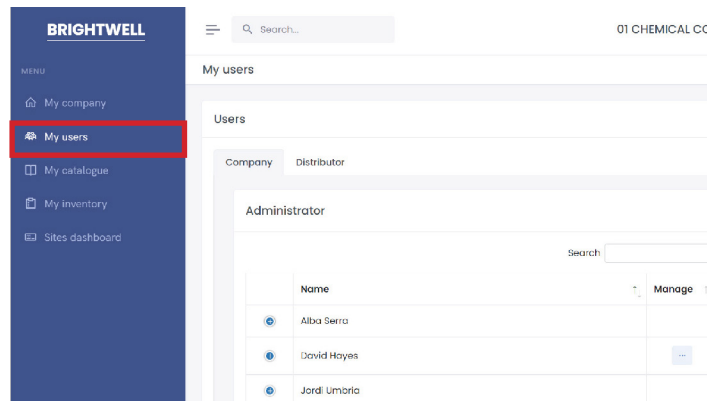
Once you are happy press the **Tick icon** to save these settings and edit your distributor.



ADDING OR EDITING A STANDARD USER ACCOUNT

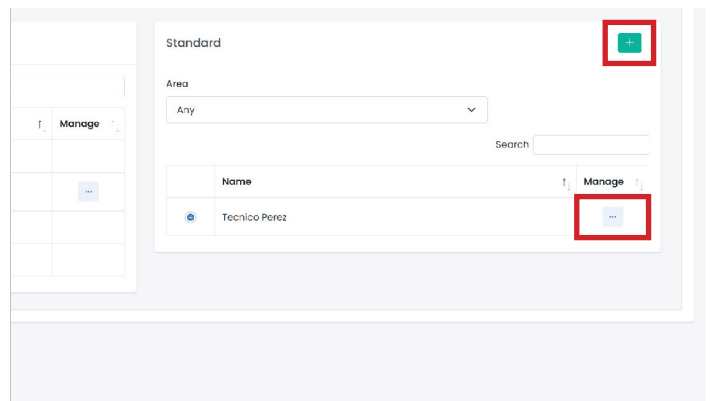
STEP 1

To create a new or edit an existing user account open the **My Users** menu from the navigation bar.



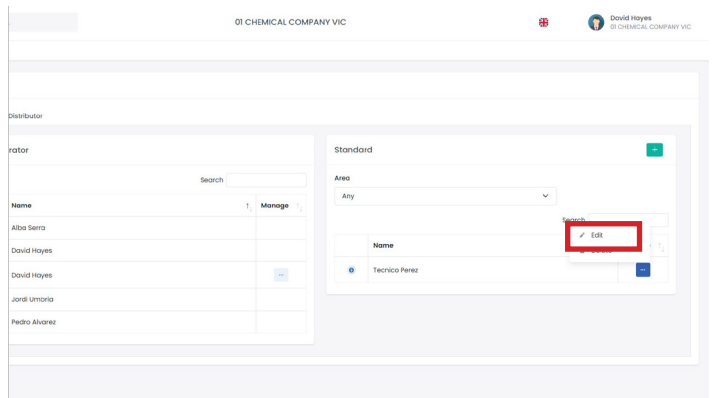
STEP 2

Locate your account and press the **3 dots** located next to the account you want to edit.



STEP 3

Once you have selected this a pop-up will appear. Select **Edit** to open the settings menu

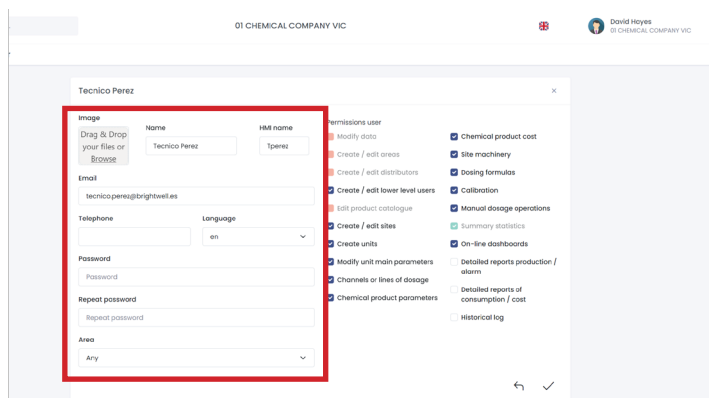


STEP 4

In the left hand column you can adjust the following:

- Setting a photo
- Name and HMI name
- Email
- Telephone
- Language
- Password

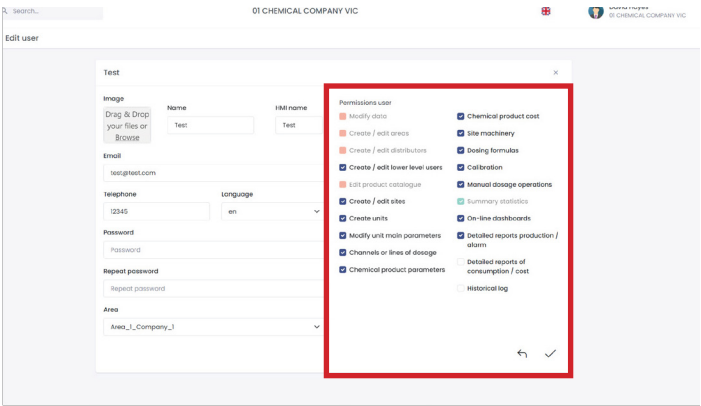
You are also able to set their account permissions on the right using the check boxes provided.



ADDING OR EDITING A STANDARD USER ACCOUNT

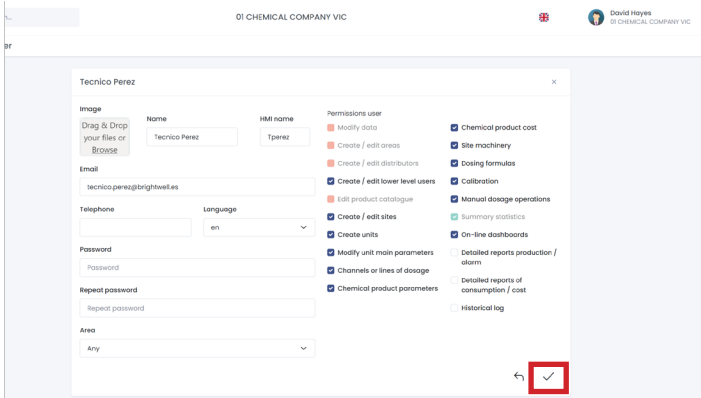
STEP 5

After the user has been created, you can set the account permissions using the tick boxes on the right hand side.



STEP 6

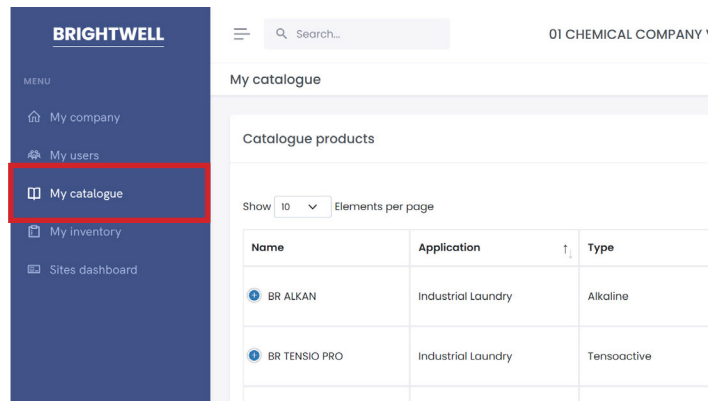
Once you have made the changes press the Tick icon to save the new settings.



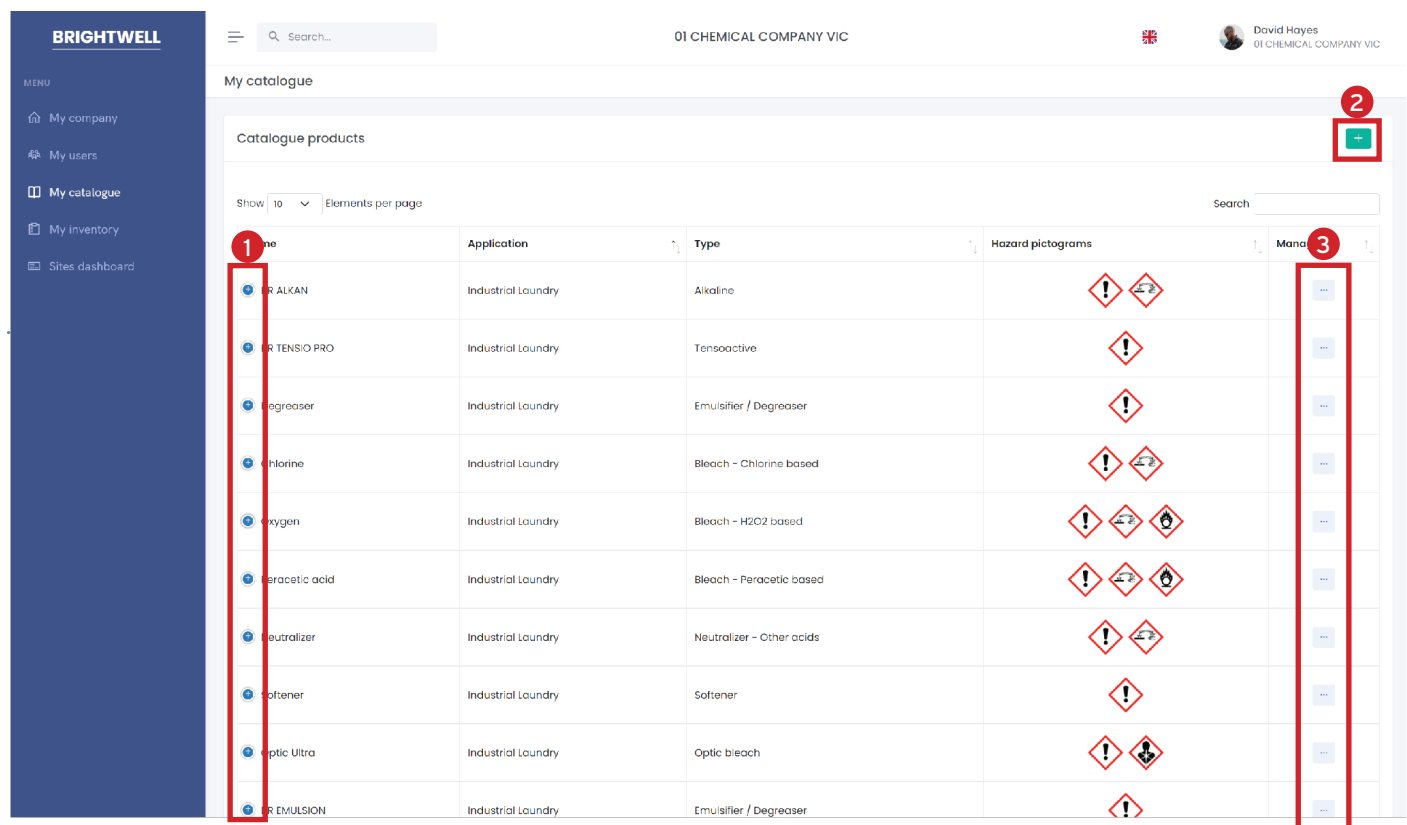
ACCESSING YOUR PRODUCT CATALOGUE

STEP 1

To access your **Product Catalogue** press the **My Catalogue** icon in the side menu.



PRODUCT CATALOGUE OVERVIEW



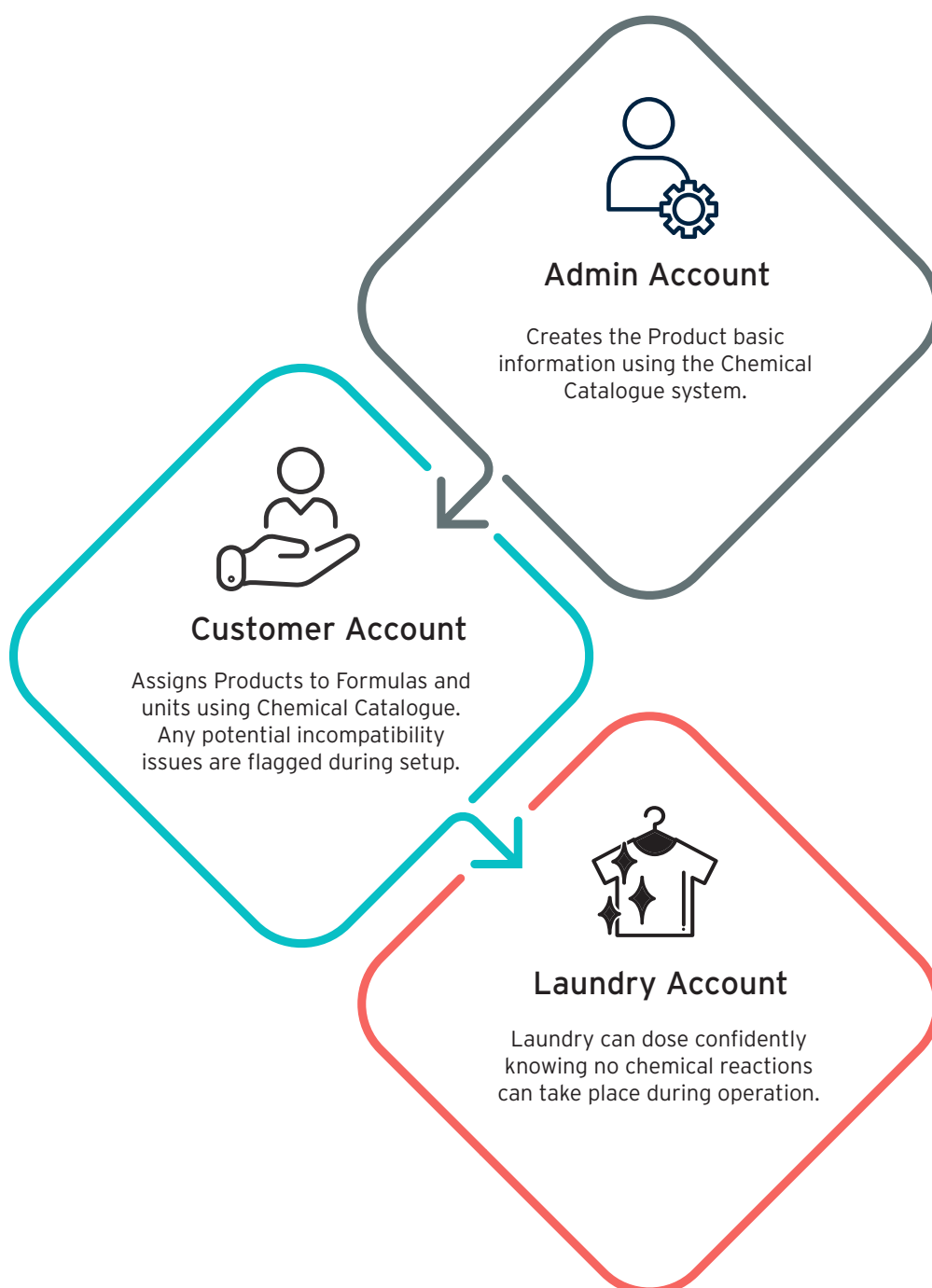
- ① Shows the details of when the chemical was created.
- ② Press this icon to create a new chemical for your catalogue
- ③ Use the three dots to edit an existing chemical

PRODUCT CATALOGUE INFORMATION

To maximize the benefits you receive from your Multiplex system, it is best to use the complete setup options available through the cloud system. This allows you to access warnings for potential incompatibility issues from your products during the wash phase, preventing the hazard of mixing incompatible chemicals and generating unwanted reactions.

Once a chemical has been added to the catalogue, it is set up across all your systems, making it a quick and easy way to manage your entire catalogue for all units in the field.

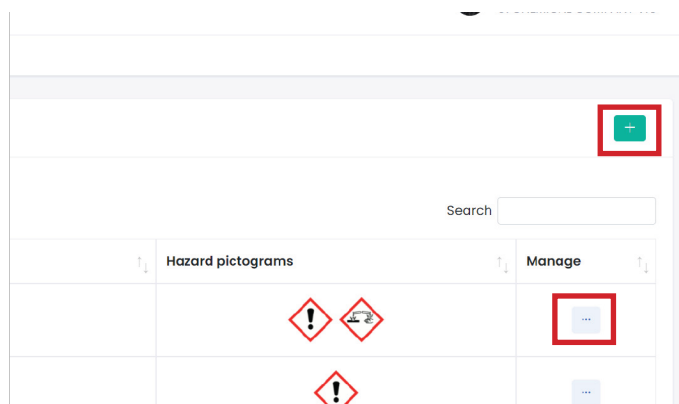
Additionally, you can store any relevant safety or information documentation so that they are available to users with the correct access on your cloud.



EDITING OR ADDING A PRODUCT

STEP 1

To edit an existing product within your catalogue press the three dots on the right of the tile. Alternatively, to create a new product for your catalogue press the + icon in the top right of the tile.



STEP 2

Edit the product details including all relevant hazard information.

Please refer to the chemical manufacturers for this information.

Catalogue > Edit catalogue product

BR ALKAN

Application: Industrial laundry

Type: Alkaline

Datasheet: Drag & Drop your files or Browse

Name: BR ALKAN

State: Liquid

Density: 1

Recommended dose:

! Health hazard

☐ Serious health hazard

☐ Acute toxicity

☐ Hazardous to environment

☐ Corrosive

☐ Oxidising

☐ Flammable

☐ Explosive

☐ Gas under pressure

Health hazard: hazardous

Fire hazard: Will not burn

Instability hazard: Violent chemical change

Specific hazard: None

2 0 2

Indications:

Remarks:

←

✓

STEP 3

When you have completed the information use the Tick icon in the corner to save the details.

✓

NFFA

Health hazard: hazardous

Fire hazard: Will not burn

Instability hazard: Violent chemical change

Specific hazard: None

2 0 2

Indications:

Remarks:

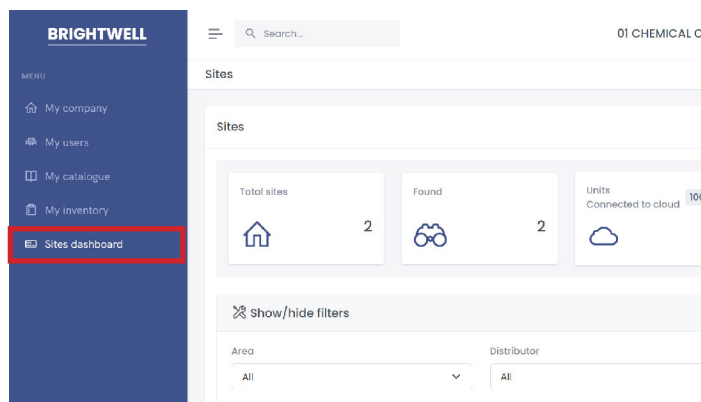
←

✓

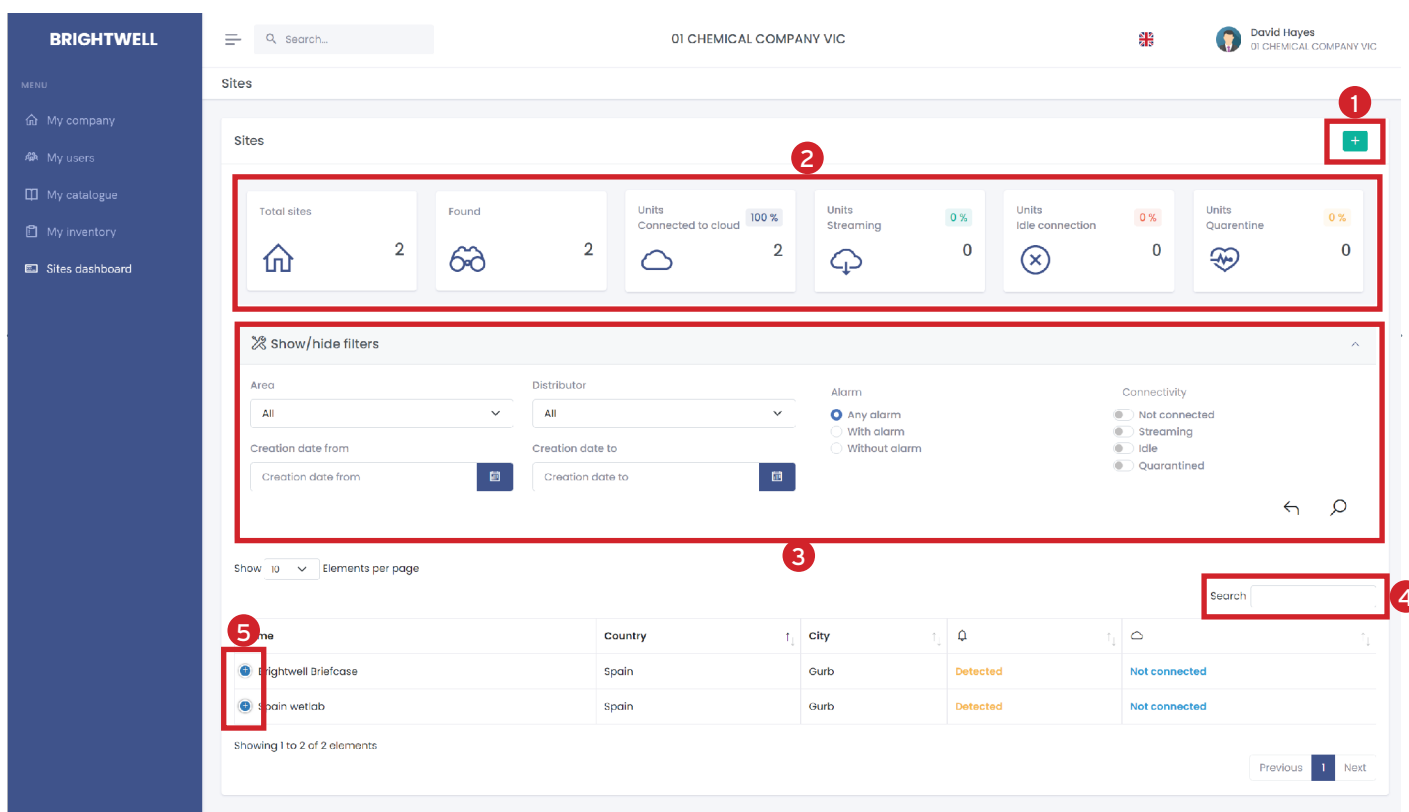
ACCESSING YOUR SITES DASHBOARD

STEP 1

To access your user settings use the **Sites Dashboard** icon in the side navigation.



SITES DASHBOARD OVERVIEW

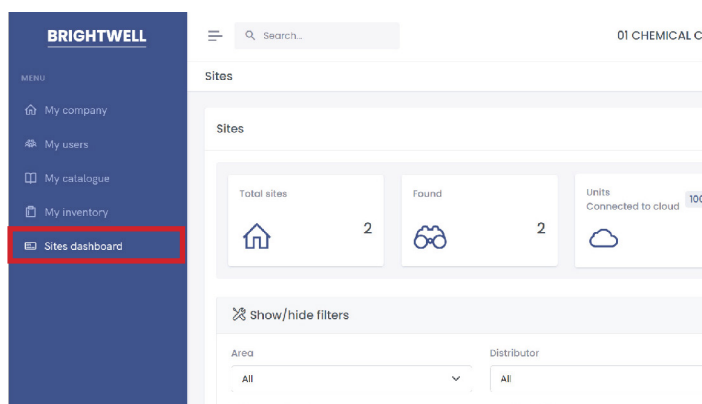


- 1 Adds a new site to your account
- 2 Shows a quick overview of your units and site statistics
- 3 Allows you to set custom filters to display sites
- 4 A custom search bar for your sites
- 5 Displayed the site details

CREATING A NEW OR EDITING AN EXISTING SITE

STEP 1

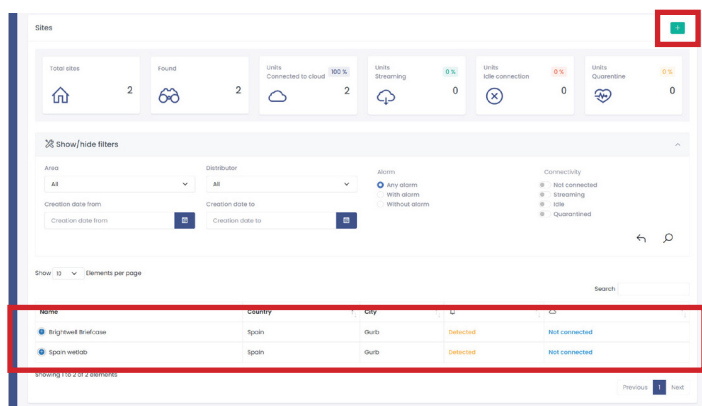
To create a new site, or edit an existing one on your system go to the **Sites Dashboard** menu from the side navigation bar.



STEP 2

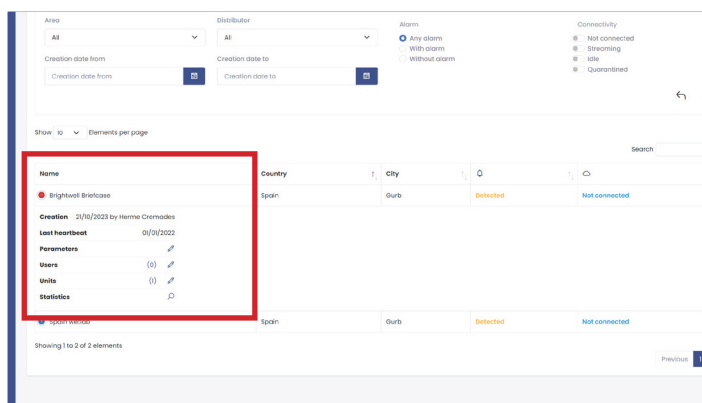
From the sites list locate the site you want to edit and click on it to expand the options.

Alternatively, create a new site, press the + icon in the top right of the screen.



STEP 3

If you are editing an existing site the following menu will appear. Click on the **Edit icon** next to parameters to enter the configuration menu.

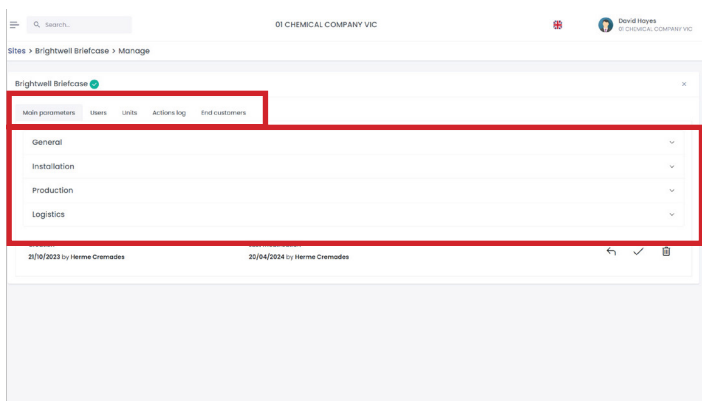


STEP 4

On the site edit screen you can use the top bar to move between the:

- Main Parameters
- Users
- Units
- Actions log
- End customers

The second part are the expandable menus for editing the settings located on this tab.



EDITING A SITES MAIN PARAMETERS

STEP 6

In the **Main Parameters** tab expand the General Tab to adjust the following settings:

- Name
- VAT number
- Address
- Email
- Telephone
- Website
- Logo
- [Area](#)
- [Distributor](#)
- Remarks
- Time zone

STEP 7

Initially you can set up your **Head Maintenance** contact information;

- Name
- Email
- Telephone

STEP 8

If the site has specific internet setup, you can add the **Mode** and **WAN IP** in the fields provided.

STEP 9

In the initial **Supplies** section you can adjust the Voltage type on site. These are:

- 110V - Single Phase
- 230V - Single Phase
- 400V - 3 phases (transformer required)
- 400V - 3 phases + Neutral

EDITING A SITES MAIN PARAMETERS

STEP 10

Next you can adjust your **Water Source Type** between:

- Well / Reservoir
- External tank periodically filled
- Town network

The screenshot shows the 'Installation' configuration page. On the left, there's a sidebar with links: company, users, catalogue, inventory, and dashboard. The main area is titled 'Installation' and contains several sections. The 'Supplies' section includes dropdowns for 'Voltage type', 'Water source type' (highlighted with a red box), 'Water treatment type', 'Water pressure type', 'Air pressure type', and 'Transfer type'. The 'Internet connection' section has a 'Mode' dropdown (set to 'None') and a 'Wired IP' input field. The 'Dosing room' section includes 'Dosing room type', 'Minimum distance to machinery', 'Maximum distance to machinery', and 'Clean area separation type'.

STEP 11

Next you can adjust your **Water Treatment Type** between:

- None
- Osmosis
- Water softener
- Other

This screenshot is similar to the previous one, showing the 'Installation' configuration page. The 'Water treatment type' dropdown in the 'Supplies' section is now highlighted with a red box.

STEP 12

Next you can adjust your **Water Pressure Type** between:

- External Network Pressure
- Pressure booster supplied for the dosing unit
- Pressure booster of the laundry

This screenshot shows the 'Installation' configuration page with the 'Water pressure type' dropdown in the 'Supplies' section highlighted by a red box.

STEP 13

Next you can adjust your **Air Pressure Type** between:

- Not necessary
- Compressor supplied for the dosing unit
- Compressor of the laundry (>=8Bar)

This screenshot shows the 'Installation' configuration page with the 'Air pressure type' dropdown in the 'Supplies' section highlighted by a red box.

EDITING A SITES MAIN PARAMETERS

STEP 14

Next you can adjust your **Transfer Type** between:

- None
- Storage Tank -> Dosage Tank
- Truck -> Dosing Tank
- Truck -> Storage Tank -> Dosing Tank
- Other

The screenshot shows the 'Installation' form with various parameters. The 'Transfer type' dropdown menu is highlighted with a red box, showing 'Unknown' as the selected option.

STEP 15

Next you can adjust your **Dosing Room Type** between:

- None - Products are in an external location
- None - Products are inside the laundry area
- Yes - Products are in a particular room

The screenshot shows the 'Installation' form with various parameters. The 'Dosing room type' dropdown menu is highlighted with a red box, showing 'Unknown' as the selected option.

STEP 16

Next you can set your **Minimum and Maximum distance to machinery**.

The screenshot shows the 'Installation' form with various parameters. The 'Minimum distance to machinery' and 'Maximum distance to machinery' input fields are highlighted with a red box.

STEP 17

Next you can adjust your **Clean Area Separation Type** between:

- No separation between dirty and clean areas
- Normal separation between dirty and clean areas
- Sanitary barriers

The screenshot shows the 'Installation' form with various parameters. The 'Clean area separation type' dropdown menu is highlighted with a red box, showing 'Unknown' as the selected option.

EDITING A SITES MAIN PARAMETERS

STEP 18

The third tab allows you to set the **Production** contact information.

- Production Head
- Production Email
- Production Telephone

The screenshot shows the 'Production' tab selected. A red box highlights the 'Production' section, which contains three input fields: 'Head production', 'Head production email', and 'Head production telephone'. Below this is the 'Shift distribution' section, which displays a table for shifts 1 through 4, with columns for 'From' and 'To' times. At the bottom is the 'Logistics' section, which is currently collapsed.

STEP 19

If your site has shifts, you can adjust the timings here to produce shift specific diagnostic data later.

The screenshot shows the 'Shift distribution' section highlighted with a red box. It contains a table with four rows representing shifts 1 through 4. Each row has two columns: 'From' and 'To', each with a time input field and a dropdown menu for selecting a time zone or shift type.

STEP 20

The last section allows you to adjust the **Logistics** contact information.

- Logistics Head
- Logistics Email
- Production Telephone

The screenshot shows the 'Logistics' tab selected. A red box highlights the 'Logistics' section, which contains three input fields: 'Head logistics', 'Head logistics email', and 'Head logistics telephone'. Below this are several input fields for address information: 'Address', 'Zip code', 'City', 'Province/State', and 'Country'. To the right of these fields is a 'Delivery time frame' section with 'From' and 'To' time input fields.

STEP 21

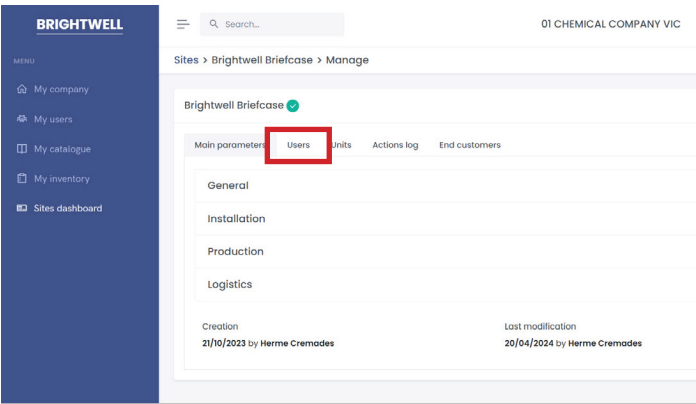
Finally, to save your settings press the **Tick Icon** in the bottom right. You can also delete the site from here using the **Trash Can Icon**.

This screenshot is identical to the previous one, showing the 'Logistics' tab with the 'Logistics' section highlighted. It focuses on the bottom right corner of the interface, where the 'Tick Icon' (used to save settings) and the 'Trash Can Icon' (used to delete the site) are located.

EDITING USERS FOR A SITE

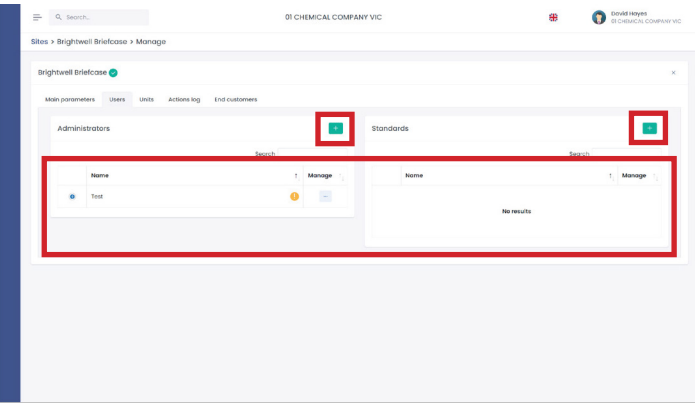
STEP 1

To open the users list for the site press the **Users** tab at the top of the page.



STEP 2

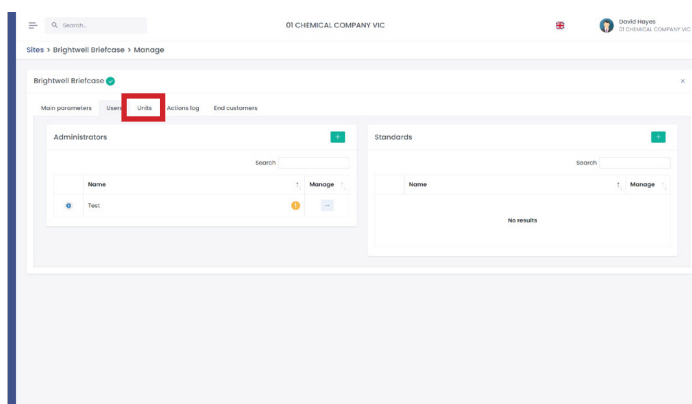
Here you can use the **+** icons to add either site administrators or standard users. Current users will be listed in the tables below.



EDITING A UNIT

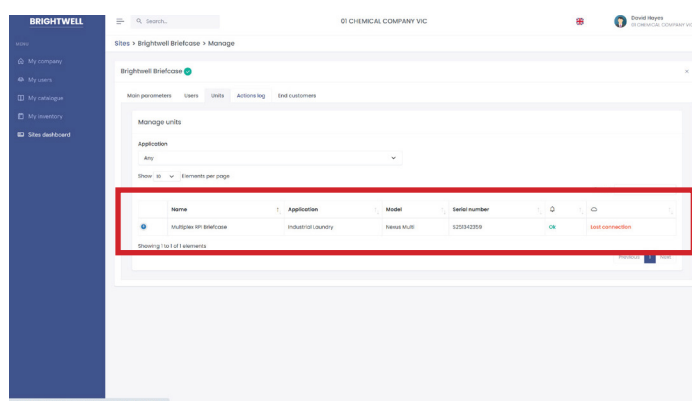
STEP 1

To open the unit list for the site press the **Unit** tab at the top of the page.



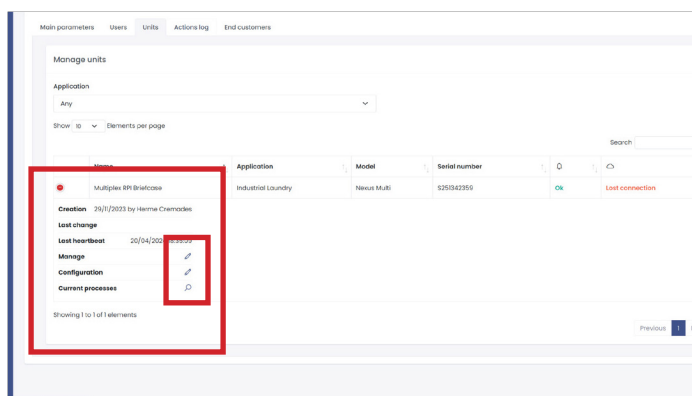
STEP 2

All units that are linked to the site will be listed in the table at the bottom of the page. Click on the unit you want to modify.



STEP 3

Click on the **+** icon or the unit name to expand the parameters menu. Click on the **Edit** icon to make the changes you desire.

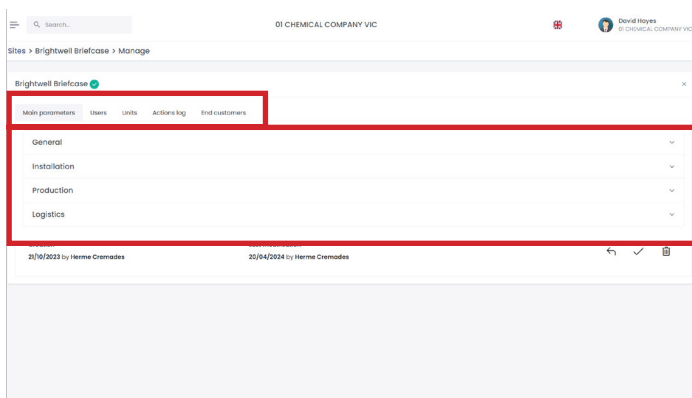


STEP 4

On the site edit screen you can use the top bar to move between the:

- Main Parameters
- Users
- Units
- Actions log
- End customers

The second part are the expandable menus for editing the settings located on this tab.



EDITING A UNIT

STEP 5

Once the unit settings page has opened you can modify the following fields:

General settings in section 1

- Unit Application
- Model
- Name
- Master number
- Protocol

Configuration settings in section 2

This will allow you to edit the channel settings.
(These will be covered in the next section)

Remote warning settings in section 3

- Emergency stop
- External contacts
- Lost connection
- Wrong user login
- Washer communication
- Washer cycles
- Leak test
- Water test / flush
- Product dosage
- Product low level

Connectivity / Status settings in section 4

- Lan IP
- Lan HMI

Special actions settings in section 5

- Change the site the unit is linked to

Please note - All sections are saved separately. If you make changes across multiple sections please make sure to press the Save icon for each section.

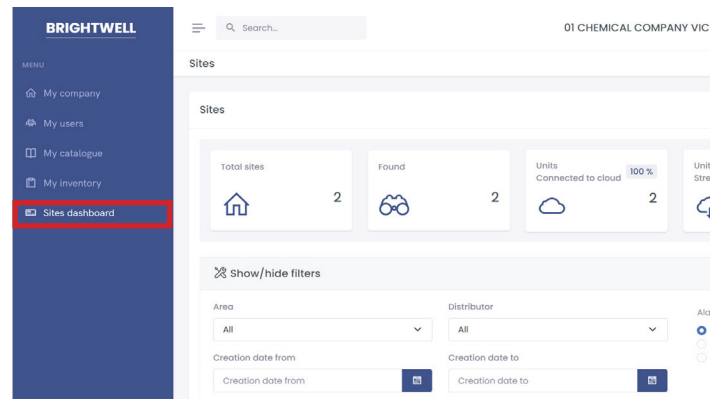
The screenshot shows the 'Manage' interface for a unit, with the following sections highlighted by red boxes and numbered callouts:

- Box 1: General settings** - Includes fields for Application (Industrial Laundry), Model (Nexus Multi), Name (Multiplex RPI Briefcase), Serial number (S251342359), Master number (0), and Protocol (Choose one...).
- Box 2: Configuration** - Includes tabs for Machines (2), Channels (1), and Products (3). Below is a table with columns: Channel, Products, Pump, Solution, and Air.
- Box 3: Remote warnings** - Includes a list of warnings with checkboxes: Emergency stop, External contacts, Lost connection, Wrong user login, Washer communication, Washer cycles, Leak test, Water test / flush, Product dosage, and Product low level. It also has a 'Destination emails' section with 'No' and 'Recipient' options.
- Box 4: Connectivity / Status** - Includes 'Last heartbeat' (20-04-2024 18:35:09), 'Last power-on' (08-12-2023 09:33:20), 'Set to Connected to cloud' (29-11-2023 by), and a 'Lost connection' status. It also has fields for 'LAN IP' and 'LAN HMI'.
- Box 5: Special actions** - Includes a 'Link the unit to a different site' dropdown menu with 'Brightwell Briefcase' selected.

ACCESSING CHANNELS, WASHER EXTRACTORS, FORMULAS AND DATA TRANSFER

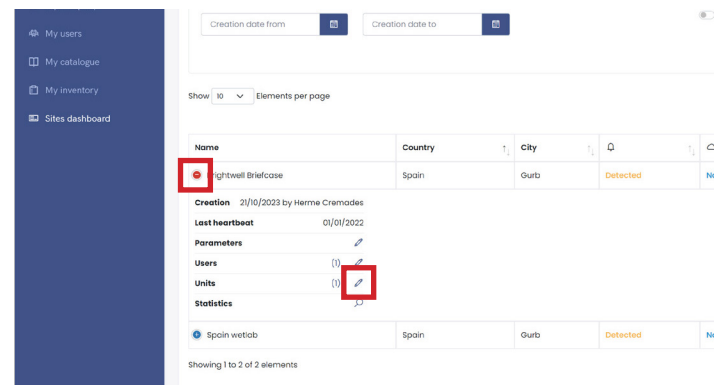
STEP 1

To access the channels, Washer Extractors, Formulas and Data Transfer options for your Portal you will need to follow the below steps. First, click on the **Sites Dashboard** in the side navigation menu.



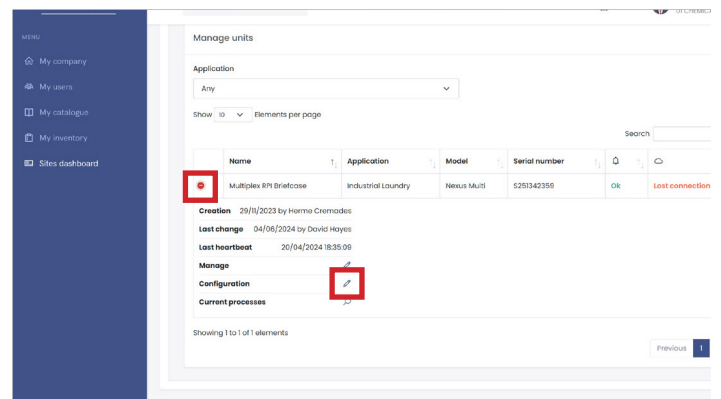
STEP 2

Scroll down until you find the site you want to edit and click on the **+** to expand the options. Press the **Edit icon** next to **Units** option that appears.



STEP 3

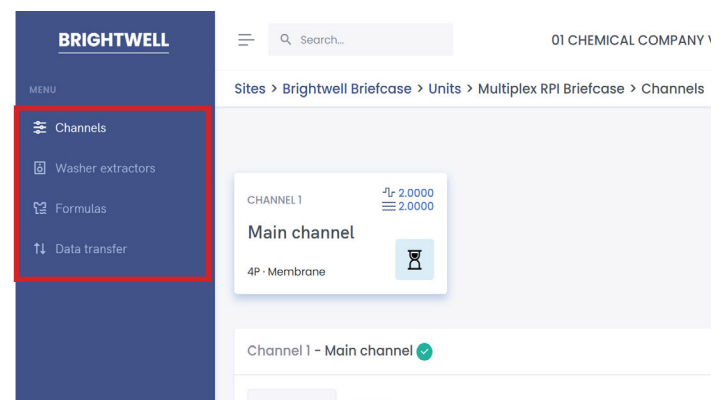
Click on the **+** icon or the unit name to expand the parameters menu. Click on the **Configuration icon** to open the next screen.



STEP 4

Once this opens the options for the following:

- Channels
- Washer Extractors
- Formulas
- Data Transfer



UNIT CONFIGURATION OVERVIEW

Please note - To access the channel parameters menu. Please refer to this previous section - [“Accessing Channels, Washer Extractors, Formulas and Data Transfer”](#)

The screenshot displays the BRIGHTWELL unit configuration interface. The interface includes a top navigation bar with a search bar and user information, a left sidebar with navigation options, and a main content area for channel configuration. Red boxes and numbers highlight specific features:

- 1**: User profile icon in the top right corner.
- 2**: Search bar in the top navigation bar.
- 3**: Side navigation bar containing 'Channels', 'Washer extractors', 'Formulas', and 'Data transfer'.
- 4**: 'Main channel' header and 'Parameters' tab.
- 5**: 'Parameters' and 'Products' tabs.
- 6**: 'Water control' settings including 'Control mode', 'Flow meter type', 'Cost/l', 'Kd (ml / pulse)', and 'Flow rate (l / min)'.
- 7**: 'Dosage' settings including 'Pump type', 'Flush type', 'Water test (ml)', and 'Initial Test Retry', 'Leak Test', 'Flush By Pump'.
- 8**: 'Alarms' settings including 'Pulse detection range' and 'Attempts before warning'.
- 9**: Bottom right corner containing save, delete, and return icons.

- 1 To add a new channel press the icon in the top right
- 2 Here you can see the list of current channels on your system
- 3 The side navigation bar has changed to allow you to move between;
 - Channels
 - Washer extractors
 - Formulas
 - Data transfer
- 4 Use these tabs to switch between Parameters and Product settings
- 5 Channel Name
- 6 Water control settings
- 7 Dosage settings
- 8 Alarm settings
- 9 Save, delete and return icons

EDITING CHANNEL PARAMETER SETTINGS

STEP 1

You can use the first field to adjust the **Channel Name**

Please note - To access the unit Channels menu.
Please refer to this previous section - ["Accessing Channels, Washer Extractors, Formulas and Data Transfer"](#)

Channel 1
Main channel
SP: Membrane

Channel 1 - Main channel

Parameters Products

Name
Main channel

Water control

Control mode
Time

Flow meter type
Paddle Wheel

Cost
100000

AT (ml / pulse)
2.0000

Flow rate (l / min)
2.0000

Dosage

Pump type
Membrane

Flush type
Water Only

Water test (ml)
1000

Alarms
Pulse detection range
Low
Attempts before warning
1

STEP 2

Next you find the [Control Mode](#). Where you can select between **Time** or **Flow meter**.

*We recommend using a flow meter for your Multiplex as it guarantees accurate chemical delivery to your machines. This option is to allow for temporary use of the unit while you await repairs.

Channel 1
Main channel
SP: Membrane

Channel 1 - Main channel

Parameters Products

Name
Main channel

Water control

Control mode
Flow meter

Flow meter type
Paddle Wheel

Cost
100000

AT (ml / pulse)
2.0000

Flow rate (l / min)
2.0000

Dosage

Pump type
Membrane

Flush type
Water Only

Water test (ml)
1000

Alarms
Pulse detection range
Low
Attempts before warning
1

Initial Test Battery
Last Test
Flush By Pump

Checklist
2015/04/04 by Membrane Channels
Last modification
2015/04/04 by Membrane Channels

STEP 3

Select the correct Flow Meter Type using the drop down:

- Paddles
- Oval-Gear
- Thermal

Please note: Do not change this unless you have replaced the flow meter provided from your supplier.

Channel 1
Main channel
SP: Membrane

Channel 1 - Main channel

Parameters Products

Name
Main channel

Water control

Control mode
Time

Flow meter type
Paddle Wheel

Cost
100000

AT (ml / pulse)
2.0000

Flow rate (l / min)
2.0000

Dosage

Pump type
Membrane

Flush type
Water Only

Water test (ml)
1000

Alarms
Pulse detection range
Low
Attempts before warning
1

Initial Test Battery
Last Test
Flush By Pump

Checklist
2015/04/04 by Membrane Channels
Last modification
2015/04/04 by Membrane Channels

STEP 4

Next is the Cost value for the water of this channel, this is used for cost reporting.

Channel 1
Main channel
SP: Membrane

Channel 1 - Main channel

Parameters Products

Name
Main channel

Water control

Control mode
Time

Flow meter type
Paddle Wheel

Cost
100000

AT (ml / pulse)
2.0000

Flow rate (l / min)
2.0000

Dosage

Pump type
Membrane

Flush type
Water Only

Water test (ml)
1000

Alarms
Pulse detection range
Low
Attempts before warning
1

Initial Test Battery
Last Test
Flush By Pump

Checklist
2015/04/04 by Membrane Channels
Last modification
2015/04/04 by Membrane Channels

EDITING CHANNEL PARAMETER SETTINGS

STEP 5

To adjust the **Kf** value please use the highlighted box.

Please note - These values are generated automatically by running a calibration on the unit. Please refer to the Web Server Configuration Tool guide.

*We **DO NOT** advise setting the values manually

The screenshot shows the 'Main channel' configuration page for 'Channel 1'. The 'Parameters' tab is active. The 'Kf (ml / pulse)' field is highlighted with a red box. The value is 2.0000. Other fields include 'Flow meter type' (Paddle Wheel), 'Flow rate (l / min)' (2.0000), 'Cost(l)' (1.00000), 'Pump type' (Membrane), 'Flush type' (Water Only), and 'Water test (ml)' (1000). The 'Alarms' section on the right shows 'Pulse d' (Low), 'Alarm' (1), and 'Attenuation' (1).

STEP 6

You can now set up the **Flow Rate** value for the Chemical here.

Please note - These values are generated automatically by running a calibration on the unit. Please refer to the Web Server Configuration Tool guide.

*We **DO NOT** advise setting the values manually

The screenshot shows the 'Main channel' configuration page for 'Channel 1'. The 'Parameters' tab is active. The 'Flow rate (l / min)' field is highlighted with a red box. The value is 2.0000. Other fields include 'Kf (ml / pulse)' (2.0000), 'Flow meter type' (Paddle Wheel), 'Cost(l)' (1.00000), 'Pump type' (Membrane), 'Flush type' (Water Only), and 'Water test (ml)' (1000). The 'Alarms' section on the right shows 'Pulse d' (Low), 'Alarm' (1), and 'Attenuation' (1).

STEP 7

If you need to adjust the pump type for the unit you can use the drop down menu to choose between:

- Peristaltic
- Motor
- Membrane
- Pneumatic
- Venturi

The recommended configuration for the Multiplex is water or air flush with a membrane or pneumatic pump. (Based on each site).

The screenshot shows the 'Main channel' configuration page for 'Channel 1'. The 'Parameters' tab is active. The 'Pump type' dropdown menu is highlighted with a red box. The selected value is 'Membrane'. Other fields include 'Flow meter type' (Paddle Wheel), 'Flow rate (l / min)' (2.0000), 'Cost(l)' (1.00000), 'Flush type' (Water Only), and 'Water test (ml)' (1000). The 'Alarms' section on the right shows 'Pulse d' (Low), 'Alarm' (1), and 'Attenuation' (1).

EDITING CHANNEL PARAMETER SETTINGS

STEP 8

If you need to adjust the **Flush Type** for the channel use this drop down to choose between:

- No Flush
- Only Water
- Air

It is recommended to use water for set-ups where the distance between the distributor and unit is under 40 metres. Over 40 metres we advise using Air flush and a water test of over 1000ml to prevent product residue building up.

It is only recommended to use no flush when you have chemicals that become more viscous with water or the product is going directly to the washer.

The screenshot shows the 'Main channel' configuration page. Under the 'Parameters' tab, the 'Flush type' dropdown is highlighted with a red box. The selected option is 'Water Only'. Other visible settings include 'Control mode' set to 'Time', 'Flow meter type' set to 'Paddle Wheel', and 'Water test (ml)' set to '1000'.

STEP 9

Next you can adjust the water test volume for your channel. **The minimum value for this is 700 ml to ensure a correct test and separation of chemicals.**

A water test is used to verify that the minimum indispensable conditions and that the product will reach its destination. A water test is recommended when products with high viscosity or high surface tension pass through the channel

The screenshot shows the 'Main channel' configuration page. The 'Water test (ml)' input field is highlighted with a red box, showing a value of 1000. Other settings are consistent with the previous step.

STEP 10

If you want to setup a **Retry the water test** on this channel press the drop down to toggle between Yes or No.

Durante la operación puede haber un evento imprevisto donde el nivel correcto de agua no es entregado entre los productos. Si activa esta opción, podrá realizar una segunda prueba para solucionar este posible problema.

The screenshot shows the 'Main channel' configuration page. The 'Initial Test Retry' checkbox is highlighted with a red box, indicating it is checked. Other settings remain the same.

STEP 10

The final toggle switch enables the **Flush by Pump** function.

***This is not a recommended setup option and is only used when you do not have pressure regulated water for your setup. If this is the case, we advise the purchase of a booster tank to stabilise water pressure and ensure unit performance and reliability.**

The screenshot shows the 'Main channel' configuration page. The 'Flush By Pump' checkbox is highlighted with a red box, indicating it is checked. Other settings remain the same.

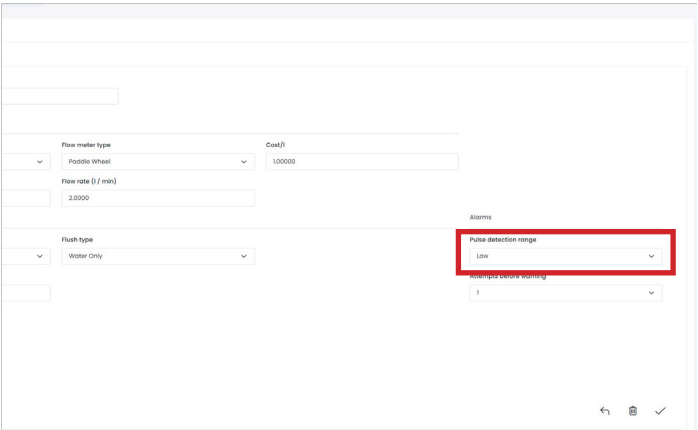
EDITING CHANNEL PARAMETER SETTINGS

STEP 11

At the bottom of the screen you can see the **Alarms settings**. The first box allows you to setup the **Pulse Detection Range**. You can select between:

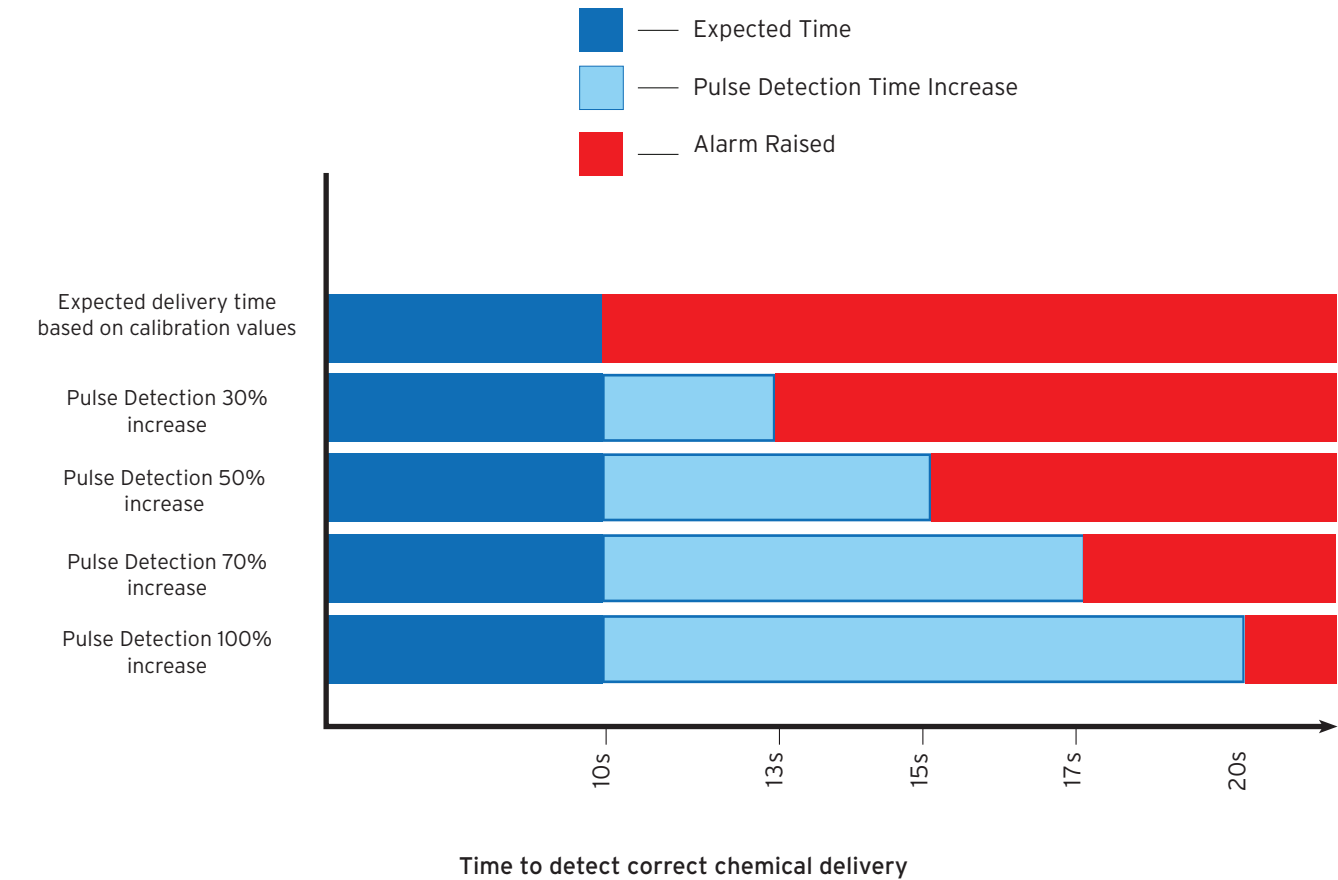
- Low (30%)
- Medium (50%)
- High (70%)
- Maximum (100%)

This is the additional time that can be added for the flow meter to detect the correct volume of chemical. A more detailed explanation is on the next page.



PULSE DETECTION RANGE

When dosing chemical it may be required to increase the detection range to allow for fluctuations in flow for the product. This may be needed when there is potentially gassing products causing gas to expand in the pipe, or very viscous products that can become more difficult to pump if left sedentary. Below is a graph explaining the functionality.



Please note - we advise setting this to as close to the expected delivery time as possible for accurate results and early warning of any potential hardware failures that may arise. Setting this to the maximum level by default will potentially hide maintenance issues that could be resolved before failure of the part.

EDITING CHANNEL PARAMETER SETTINGS

STEP 12

Below this you can set the number of retries before an alarm is raised.

The feature is only available with a flow meter installed. This stops consecutive audio alarms from sounding on the unit to reduce noise pollution in the laundry.

This is ONLY for the product dosage and water flush test. Not initial leak test.

The screenshot shows the 'Editing Channel Parameter Settings' interface. The 'Attempts before warning' dropdown menu is highlighted with a red box. The settings include:

- Flow meter type: Paddle Wheel
- Cost: 1.00000
- Flow rate (l / min): 2.0000
- Flush type: Water Only
- Alarm: Pulse detection range: Low
- Attempts before warning: 1

STEP 13

Once you are happy with the settings you can use the **Tick icon** in the bottom right to save your settings.

The **Trash icon** will clear all changes made.

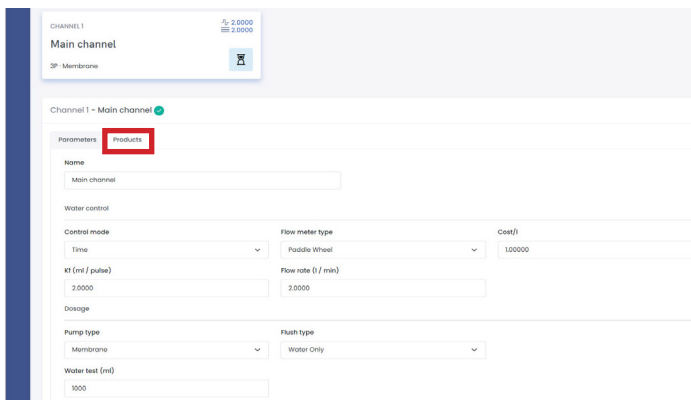
The screenshot shows the 'Editing Channel Parameter Settings' interface. The bottom right corner shows the 'Back', 'Trash', and 'Tick' icons. The 'Tick' icon is highlighted by a red box. The settings are the same as in the previous screenshot.

PRODUCT PAGE OVERVIEW

Please note - To access the products menu. Please refer to this previous section - "[Accessing Channels, Washer Extractors, Formulas and Data Transfer](#)"

STEP 1

To open the Product settings menu press the **Product** tab located at the top of the page.



1 Add channel button

2 Channel list header

3 Side navigation bar

4 Expand icon

5 Status indicator

6 Add product icon

Num	Name	Mode	KI (ml / pulse)	Flow rate (l / min)	Pump speed	Stock solution
1	RR AIKAN	✓	2,000	1,000	80%	⊖
2	BR TENSIO PRO	✓	2,000	1,000	80%	⊖
3	Chlorine	✓	2,000	1,000	80%	⊖
4	ASD	!	2,000	1,000	80%	⊖

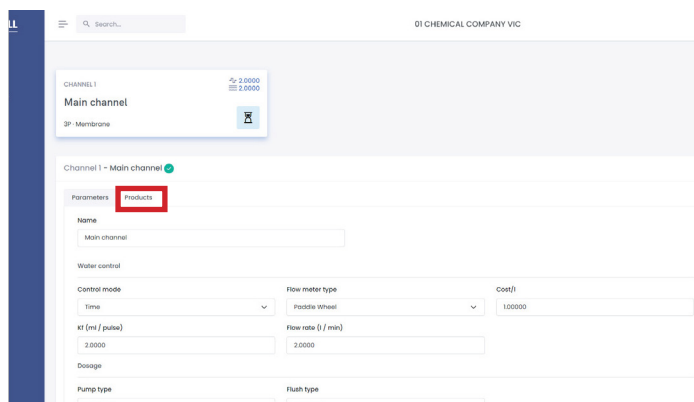
Showing 1 to 4 of 4 elements

- 1** To add a new channel press the icon in the top right
- 2** Here you can see the list of current channels
- 3** The side navigation bar has changed to allow you to move between:
 - Channels
 - Washer extractors
 - Formulas
 - Data transfer
- 4** Press this + icon to expand the selected chemical and view details
- 5** Is a visual indicator for the chemical. Green confirms it has been setup and saved correctly into the catalogue. Orange implies the chemical is incomplete and requires attention
- 6** The + icon here allows you to add a new chemical to your channel

ADDING OR EDITING YOUR PRODUCT SETTINGS

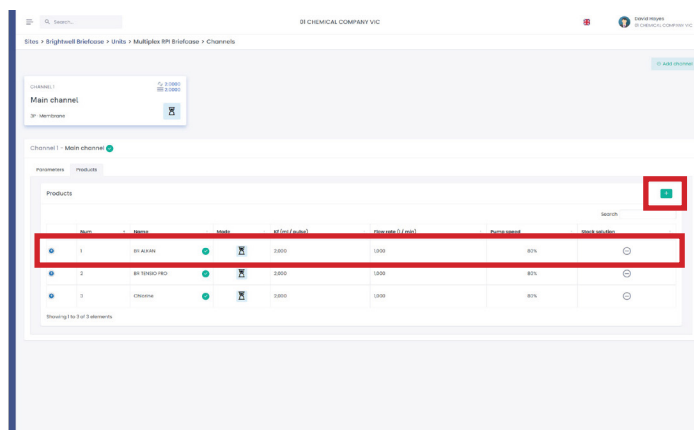
STEP 1

To open the Product settings menu press the **Product** tab located at the top of the page.



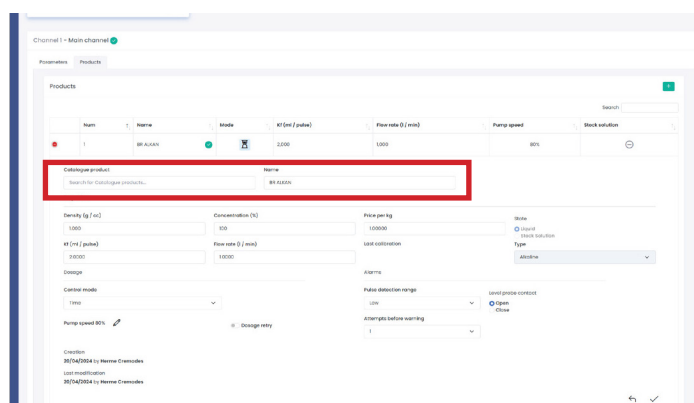
STEP 2

Locate the chemical you want to edit and click on the **Blue + icon** to expand the settings. Alternatively, to create a new Product press the **+ icon** located in the top right of the web page.



STEP 3

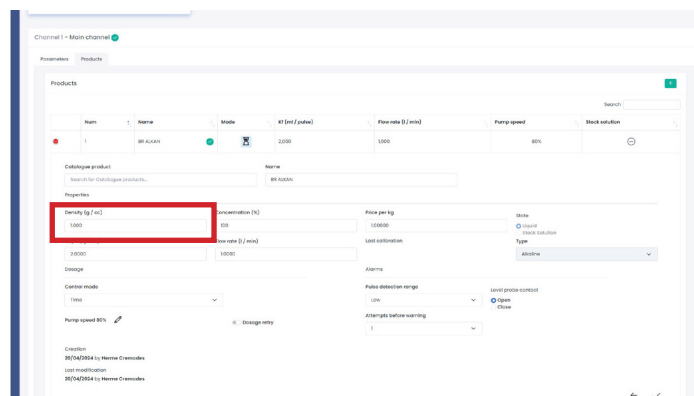
Once expanded you can edit the **Catalogue Product name** and the **Product name** using the text fields provided.



STEP 4

The next box allows you to set the **Density** of the product. Please refer to the chemical manufacturers values for this

We recommend that this value is precise and based on the chemical datasheet. As this directly effects the dosage of the chemical.
 $X \text{ value density} / 1\text{kg of laundry}$



ADDING OR EDITING YOUR PRODUCT SETTINGS

STEP 5

Next set your **Product Concentration** percentage if this is diluted.

If you are using products in pre-dilution and want the 'grams of pure product' you should set this field percentage to the direct dilution of the product. For example:

1000 litres you use 100kg of product your % = $1000/100 = 10\%$

The screenshot shows the 'Products' settings page for 'BP ALKAL'. The 'Concentration (%)' field is highlighted with a red box. The value is currently set to 100. Other visible fields include 'Density (g / cc)', 'Kf (m / pulse)', 'Flow rate (l / min)', 'Pump speed', and 'Stock solution'.

STEP 6

Below you can set the Price per KG of the product for cost reporting.

The screenshot shows the 'Products' settings page for 'BP ALKAL'. The 'Price per kg' field is highlighted with a red box. The value is currently set to 100000. Other visible fields include 'Density (g / cc)', 'Concentration (%)', 'Kf (m / pulse)', 'Flow rate (l / min)', 'Pump speed', and 'Stock solution'.

STEP 7

You can see the State and type of the product on the right hand side.

Please note - These are uneditable and set by the chemical catalogue.

The screenshot shows the 'Products' settings page for 'BP ALKAL'. The 'State' and 'Type' dropdowns are highlighted with a red box. The 'State' is set to 'Liquid' and the 'Type' is set to 'Alkaline'.

STEP 8

To set the Kf value please use the highlighted box.

Please note - These values are generated automatically by running a calibration on the unit. Please refer to the Web Server Configuration Tool guide.

*We **DO NOT** advise setting the values manually

The screenshot shows the 'Products' settings page for 'BP ALKAL'. The 'Kf (m / pulse)' field is highlighted with a red box. The value is currently set to 2.0000. Other visible fields include 'Density (g / cc)', 'Concentration (%)', 'Price per kg', 'Flow rate (l / min)', 'Pump speed', and 'Stock solution'.

ADDING OR EDITING YOUR PRODUCT SETTINGS

STEP 9

You can now set up the **Flow Rate** value for the chemical here.

Please note - These values are generated automatically by running a calibration on the unit. Please refer to the Web Server Configuration Tool guide.

*We **DO NOT** advise setting the values manually

The screenshot shows the 'Products' configuration page for 'BP ALKAL'. The 'Flow rate (l / min)' field is highlighted with a red box and contains the value '1.0000'. Other fields include 'Density (g / cc)' at 1.000, 'Concentration (%)' at 100, 'Price per kg' at 100000, and 'Pump speed' at 80%.

STEP 10

Below you can now adjust the **Pump Speed** for this chemical using the pencil icon.

We recommend a speed of:

- 80% - 100% for high volume delivery
- 30% - 80% for low volume delivery
- **DO NOT** use below 30% speed for delivery

The screenshot shows the 'Products' configuration page for 'BP ALKAL'. The 'Pump speed 80%' field is highlighted with a red box. Other fields include 'Density (g / cc)' at 1.000, 'Concentration (%)' at 100, 'Price per kg' at 100000, and 'Flow rate (l / min)' at 1.0000.

STEP 11

To the right of pump speed you can locate the **Dosage Retry** button.

This will enable the system to retry dosing the product if the correct number of pulses are not met in the expected delivery time.

The screenshot shows the 'Products' configuration page for 'BP ALKAL'. The 'Dosage retry' button is highlighted with a red box. Other fields include 'Density (g / cc)' at 1.000, 'Concentration (%)' at 100, 'Price per kg' at 100000, and 'Flow rate (l / min)' at 1.0000.

ADDING OR EDITING YOUR PRODUCT SETTINGS

STEP 12

At the bottom of the screen you can see the **Alarms settings**. The first box allows you to setup the **Pulse Detection Range**. You can select between:

- Low (30%)
- Medium (50%)
- High (70%)
- Maximum (100%)

This is the additional time that can be added for the flow meter to detect the correct volume of chemical.

A more detailed explanation is found here: [Pulse Detection Range](#)

The screenshot shows the 'OI CHEMICAL COMPANY VIC' interface. Under the 'Main channel' tab, the 'Products' section lists a product named 'BR ALKAL'. Below this, the 'Catalogue product' section shows various properties like Density, Concentration, and Price per kg. In the 'Alarms' section, the 'Pulse detection range' dropdown is highlighted with a red box and set to 'Low'. Other settings like 'Level probe contact' and 'Attempts before warning' are also visible.

STEP 13

Below this you can set the number of **Attempts Before Warning**

The feature is only available with a flow meter installed. This stops consecutive audio alarms from sounding on the unit to reduce noise pollution in the laundry.

This screenshot is similar to the previous one, showing the 'Alarms' section. The 'Attempts before warning' dropdown is highlighted with a red box and set to '1'. The 'Pulse detection range' is still set to 'Low'.

STEP 14

Finally, you can adjust the Level Probe Contact to:

- Normally Open
- Normally Closed

Please note - The standard Brightwell products are Normally Closed

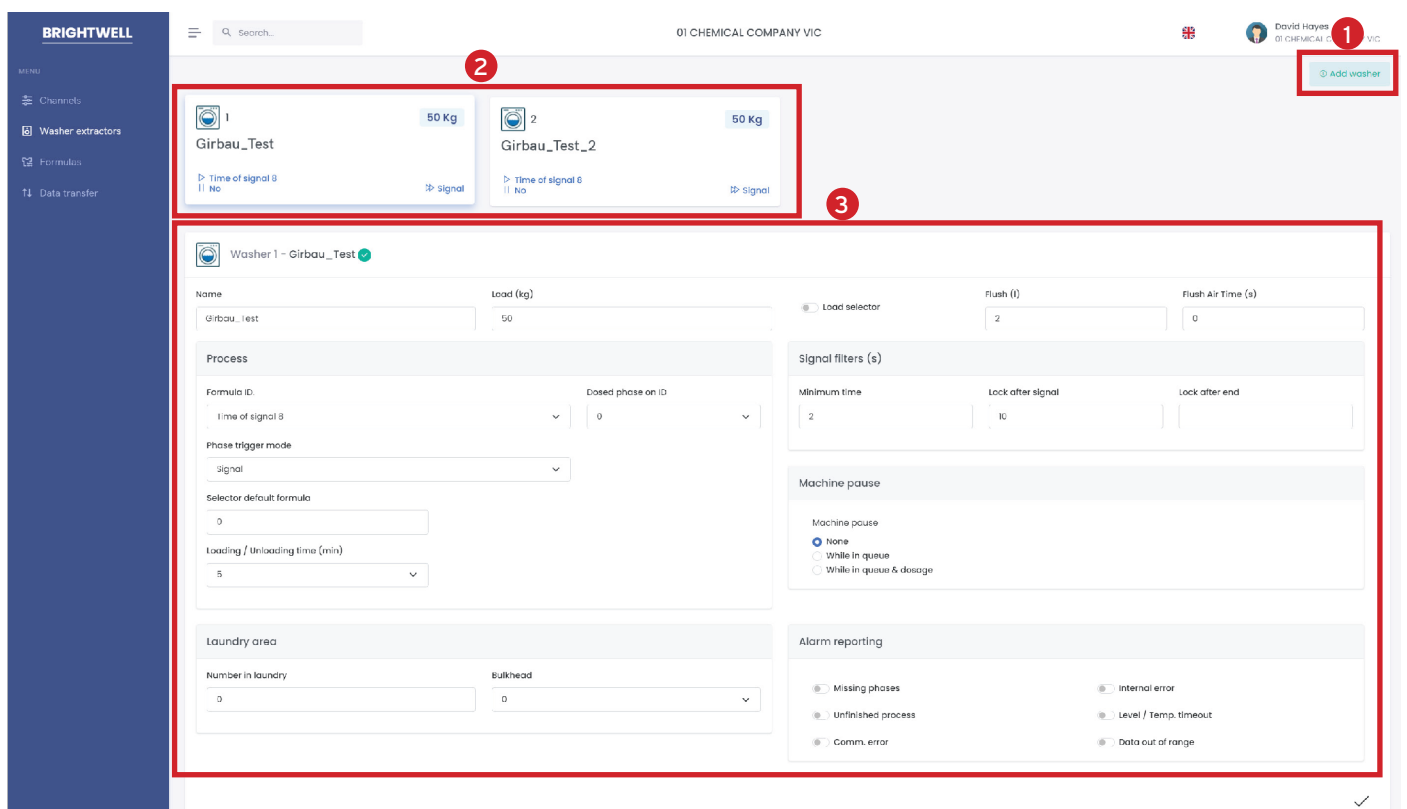
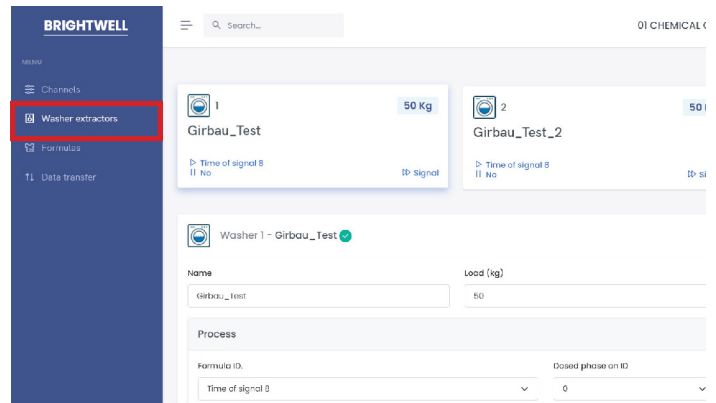
This screenshot shows the 'Level probe contact' dropdown highlighted with a red box and set to 'Open'. The other alarm settings remain the same as in the previous steps.

WASHER EXTRACTORS OVERVIEW

Please note - To access the washer extractors menu. Please refer to this previous section - [“Accessing Channels, Washer Extractors, Formulas and Data Transfer”](#)

STEP 1

To access the **Washer Extractors** overview select the icon in the side navigation bar.

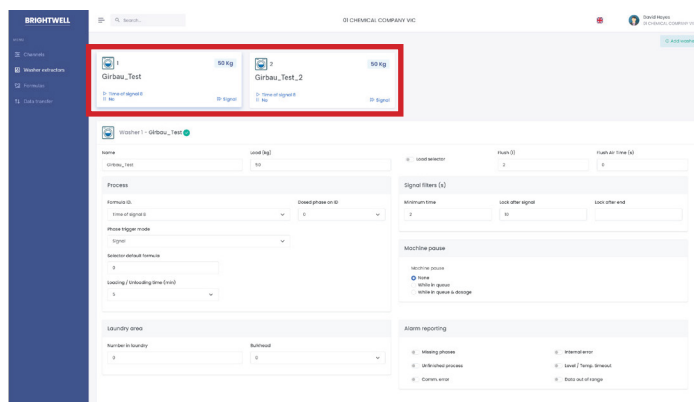


- 1 To add a new channel press the icon in the top right
- 2 Here you can see the list of current washer extractors linked to your channel, this is also how you select the extractor you wish to edit
- 3 The washer extractor settings are listed here

EDITING OR ADDING A WASHER EXTRACTOR SETUP

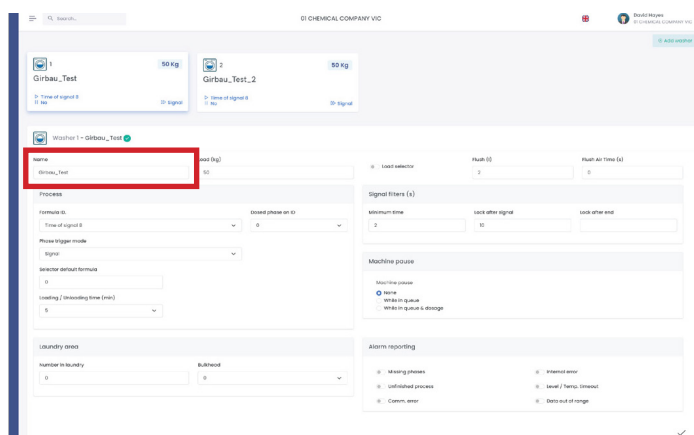
STEP 1

To change the settings on a washer extractor navigate to the **Washer Extractor** menu via the side menu. Once here, select the washer from the available at the top of the page



STEP 2

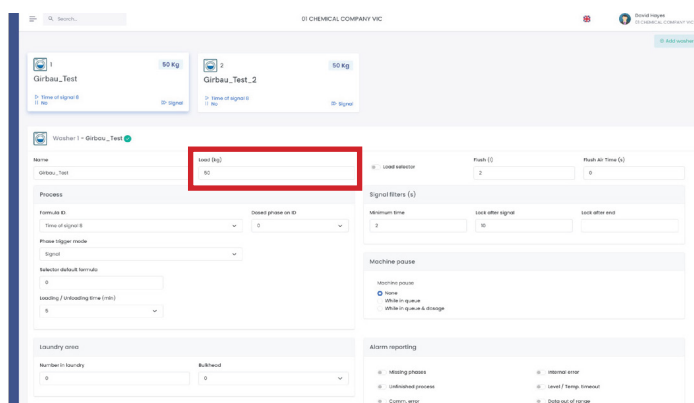
The first section allows you to set the custom name for the washer.



STEP 3

Next you are able to set the **Total Load in Kg** for the Washer Extractor.

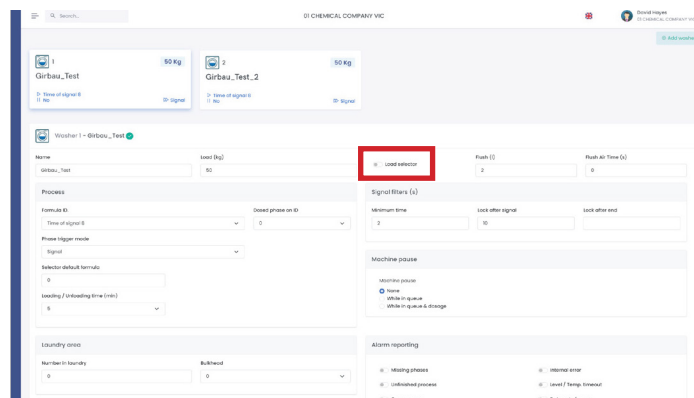
This field is essential in calculating the total volume to be dosed to the load.



STEP 4

You can now enable or disable the **Load Selection** for this washer.

This setting requires a formula select, so please contact Brightwell to discuss this setting and equipment if required.



EDITING OR ADDING A WASHER EXTRACTOR SETUP

STEP 5

The next box allows you to set the **Water Flush (Fl. oz)** quantity required

Alternatively, if you are using air flush you can use the **Air Time (S)** box below this instead

This value needs to be precise for correct delivery of chemical. Please run a visual check of the water required to completely inject the chemical into the machine, as this varies based on distance from the distributor

STEP 6

In the Dosing Process column you can first set the Formula ID section. This can be:

- Selector
- Time of signal 8
- Time of signal 1+8
- Binary
- Free

Please refer to the next section for a more detailed explanation.

SIGNAL TIME 8

This selects the program based on 5 second intervals of the Signal 8 going high. This settings is advised for units with a lower number of formulas (1-20). Please refer to the table below for timings.

Formula	Signal 8 Time on	Formula	Signal 8 Time on	Formula	Signal 8 Time on	Formula	Signal 8 Time on
1	5 s	5	25 s	9	45 s	13	65 s
2	10 s	6	30 s	10	50 s	14	70 s
3	15 s	7	35 s	11	55 s	15	75 s
4	20 s	8	40 s	12	60 s	16...	80 s...

EDITING OR ADDING A WASHER EXTRACTOR SETUP

SIGNAL TIME 1+8

This selects the program based on the duration of signals 1 and 8 going high simultaneously. This setting is advised for units that have a larger volume of formulas to select (20+) The below table explains the timing and selection details.

Formula	Signal 1 Time on	Signal 8 Time on	Formula	Signal 1 Time on	Signal 8 Time on	Formula	Signal 1 Time on	Signal 8 Time on	Formula	Signal 1 Time on	Signal 8 Time on
1	5 s	5 s	11	10 s	5 s	21	15 s	5 s	31	20 s	5 s
2	5 s	10 s	12	10 s	10 s	22	15 s	10 s	32	20 s	10 s
3	5 s	15 s	13	10 s	15 s	23	15 s	15 s	33	20 s	15 s
4	5 s	20 s	14	10 s	20 s	24	15 s	20 s	34	20 s	20 s
5	5 s	25 s	15	10 s	25 s	25	15 s	25 s	35	20 s	25 s
6	5 s	30 s	16	10 s	30 s	26	15 s	30 s	36	20 s	30 s
7	5 s	35 s	17	10 s	35 s	27	15 s	35 s	37	20 s	35 s
8	5 s	40 s	18	10 s	40 s	28	15 s	40 s	38	20 s	40 s
9	5 s	45 s	19	10 s	45 s	29	15 s	45 s	39	20 s	45 s
10	5 s	50 s	20	10 s	50 s	30	15 s	50 s	40	20 s	50 s

BINARY

For this mode the unit will select a program based on the below signal combinations.

Formula	8	7	6	5	4	3	2	1
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								

Formula	8	7	6	5	4	3	2	1
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								

Formula	8	7	6	5	4	3	2	1
33								
34								
35								
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FREE MODE

Free mode allows the users to build a custom list of formula selection based on incoming signals. These are **ONLY** defined via the web portal or web server, they cannot be defined on the built in screen

EDITING OR ADDING A WASHER EXTRACTOR SETUP

STEP 7

After this you can select the **Dosed Phase ID** number using the drop down here.

This allows you to customise what state the machine will enter on receiving the first signal.

If you set this to Phase 0, the unit will not begin dosing until a signal is received from the washer.

If you set this to Phase 1 the unit will immediately begin to dose after the auto formula select signal is confirmed

The screenshot shows the 'Washer 1 - Girbau_Test' configuration page. The 'Dosed phase on ID' dropdown is highlighted with a red box, showing '0' selected. Other fields include 'Name', 'Load (kg)', 'Load selector', 'Flush (s)', 'Flush air time (s)', 'Process', 'Formula ID', 'Time of signal (s)', 'Signal filters (s)', 'Machine pause', 'Laundry area', and 'Alarm reporting'.

STEP 8

You can now choose between a **Signal or Sequential Phase Trigger Mode**.

Signal mode defines that the machine itself will send a signal to identify what phase it is entering.

Sequential mode sets it so that it will move sequentially through the phases one by one in a logical order.

The screenshot shows the 'Washer 1 - Girbau_Test' configuration page. The 'Phase trigger mode' dropdown is highlighted with a red box, showing 'Signal' selected. Other fields include 'Name', 'Load (kg)', 'Load selector', 'Flush (s)', 'Flush air time (s)', 'Process', 'Formula ID', 'Time of signal (s)', 'Signal filters (s)', 'Machine pause', 'Laundry area', and 'Alarm reporting'.

STEP 9

If you have **Selector** chosen you will also have the option to set the **Selector Default Formula**. Which will default back to after a successful cycle.

The screenshot shows the 'Washer 1 - Girbau_Test' configuration page. The 'Selector default formula' dropdown is highlighted with a red box, showing '0' selected. Other fields include 'Name', 'Load (kg)', 'Load selector', 'Flush (s)', 'Flush air time (s)', 'Process', 'Formula ID', 'Time of signal (s)', 'Signal filters (s)', 'Machine pause', 'Laundry area', and 'Alarm reporting'.

STEP 10

Finally you can adjust the time required to load or unload the machine.

The screenshot shows the 'Washer 1 - Girbau_Test' configuration page. The 'Loading / Unloading time (min)' dropdown is highlighted with a red box, showing '0' selected. Other fields include 'Name', 'Load (kg)', 'Load selector', 'Flush (s)', 'Flush air time (s)', 'Process', 'Formula ID', 'Time of signal (s)', 'Signal filters (s)', 'Machine pause', 'Laundry area', and 'Alarm reporting'.

EDITING OR ADDING A WASHER EXTRACTOR SETUP

STEP 11

In the **Signal Filters** column the first box allows you to adjust the **Minimum Time** for an accepted signal. This stops ghost signals from triggering the washer.

The screenshot shows the 'Signal Filters' section of the 'Washer 1 - Girbau_Test' configuration. The 'Minimum time' field is highlighted with a red box, indicating it is the focus of Step 11. Other fields like 'Load selector', 'Flush (s)', and 'Flush Air Time (s)' are also visible.

STEP 12

Next you can adjust the time it takes for the washer-extractor to **Lock after a Successful Signal** has been sent.

The screenshot shows the 'Signal Filters' section of the 'Washer 1 - Girbau_Test' configuration. The 'Lock after signal' field is highlighted with a red box, indicating it is the focus of Step 12. The 'Minimum time' field is also visible.

STEP 13

The final box in the **Signal Filters** column allows you to adjust the **Lock time** for the equipment to allow new signals, once the **RESET** has been completed.

The screenshot shows the 'Signal Filters' section of the 'Washer 1 - Girbau_Test' configuration. The 'Lock after end' field is highlighted with a red box, indicating it is the focus of Step 13. The 'Lock after signal' field is also visible.

STEP 14

The last column is the **W.E Pause (Washer Extractor Pause)** section.

The first box allows you to adjust the Activation between:

- No (Deactivated)
- While in queue
- While in queue and dosage

The washer pause functionality allows for 'queuing' of machines when they request chemical delivery while the unit is busy.

When a machine is 'waiting' its timer is paused so that the wash can complete a full cycle correctly. The above options allow you to adjust when the 'pause timer' begins again.

The screenshot shows the 'Machine pause' section of the 'Washer 1 - Girbau_Test' configuration. The 'Machine pause' dropdown menu is highlighted with a red box, indicating it is the focus of Step 14. The 'While in queue' option is selected.

EDITING OR ADDING A WASHER EXTRACTOR SETUP

STEP 15

The last setting on the left hand column allows you to set the Number in Laundry and the Bulkhead number

The screenshot shows the 'Washer 1 - Girbau_Test' configuration page. The 'Laundry area' section at the bottom left is highlighted with a red box. It contains two fields: 'Number in laundry' (set to 0) and 'Bulkhead' (set to 0). Other sections visible include 'Process', 'Signal filters', 'Machine pause', and 'Alarm reporting'.

STEP 16

The final section allows you to toggle what alarms are enabled on your washer:

- Missing Phases
- Internal Error
- Unfinished Process
- Level / Temp. Timeout
- Communication Errors
- Data Out Of Range

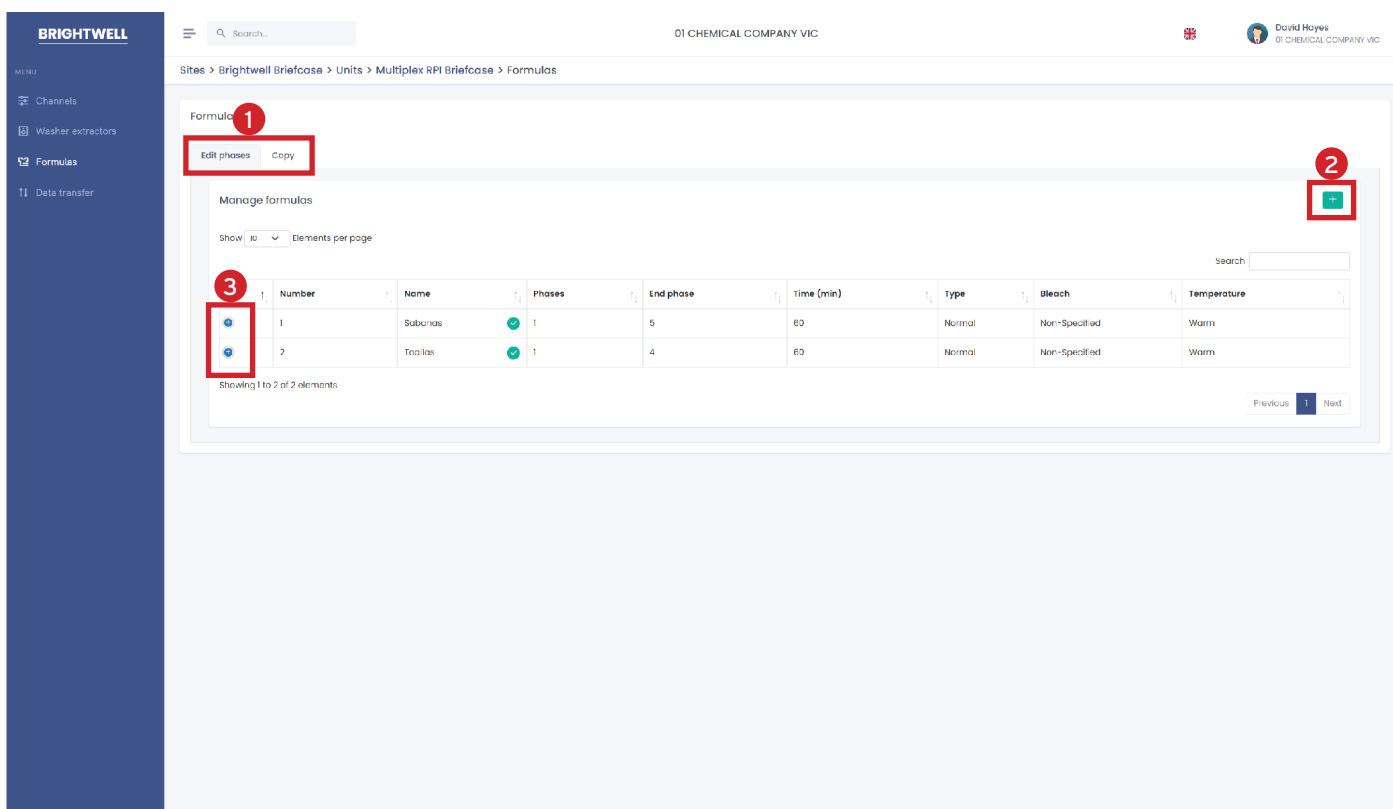
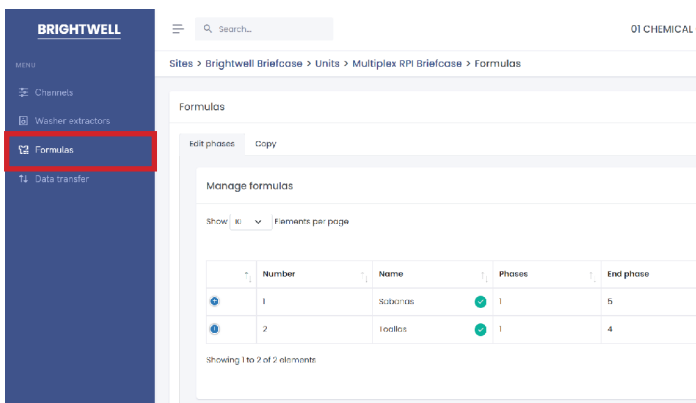
The screenshot shows the 'Washer 1 - Girbau_Test' configuration page. The 'Alarm reporting' section at the bottom right is highlighted with a red box. It contains a list of checkboxes for enabling various alarms: 'Missing phases', 'Internal error', 'Unfinished process', 'Level / Temp. timeout', 'Communication error', and 'Data out of range'. Other sections visible include 'Process', 'Signal filters', 'Machine pause', and 'Laundry area'.

FORMULAS OVERVIEW

Please note - To access the formula menu. Please refer to this previous section - [“Accessing Channels, Washer Extractors, Formulas and Data Transfer \(P28\)”](#)

STEP 1

To access the **Formulas overview** select the icon in the side navigation bar.

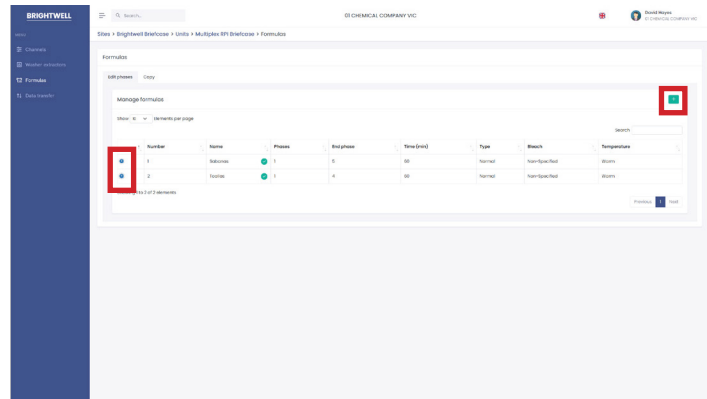


- 1** Allows you to move between the Edit Phases and Copy tabs
- 2** Press this to create a new formula
- 3** Expand the formula using the icon here

EDITING OR CREATING A NEW FORMULA

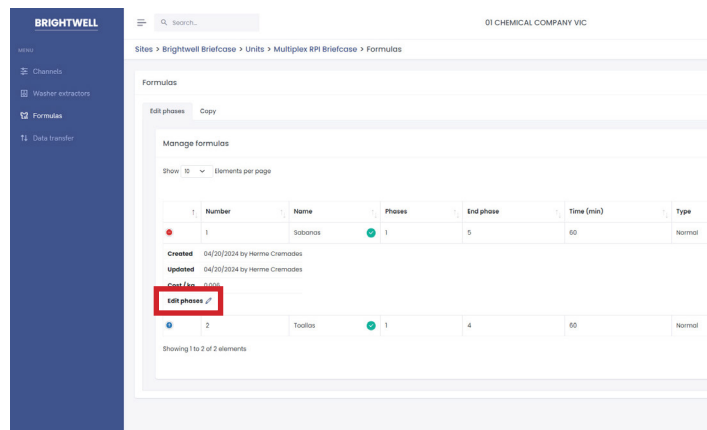
STEP 1

To adjust the settings of your formula press the **Blue + icon** on the formula to expand the options. Alternatively, press the **+ icon** in the top right to create a new one.



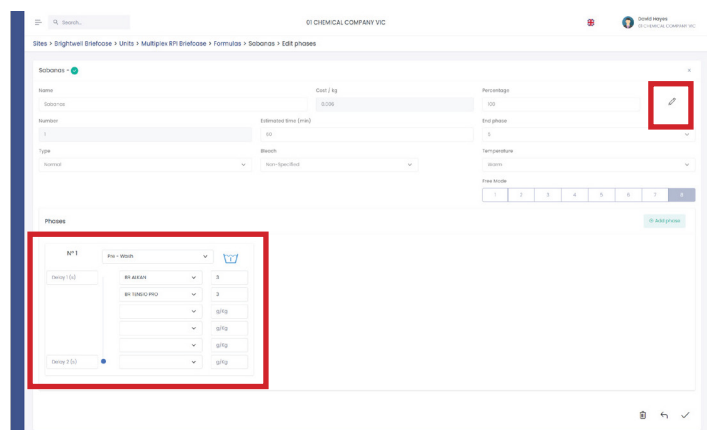
STEP 2

Once the options have been expanded, press the edit icon located next to the **Edit Phases** text.



STEP 3

Once the formula has opened you will be able to edit the phases settings located at the bottom of the page. However, you will be unable to make other changes until you have pressed the Edit icon located on the right hand side of the screen.

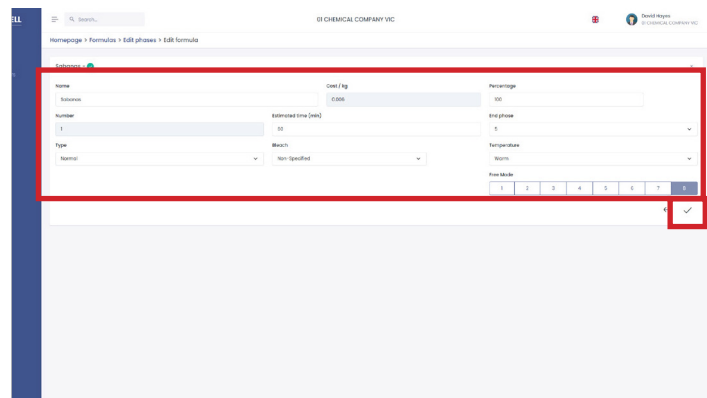


STEP 4

You can now edit:

- Name
- Percentage
- Estimated Time
- End Phase
- Type
- Bleach
- Temperature
- Free mode

Once you are happy with the changes press the Tick icon to save.



EDITING OR CREATING A NEW FORMULA

STEP 5

The next box allows you to set a custom **Formula Name**.

The screenshot shows the 'Edit formula' interface for 'G1 CHEMICAL COMPANY VIC'. The 'Name' field is highlighted with a red box. The 'Substance' field contains 'Substance'. The 'Cost / kg' field contains '0.005'. The 'Percentage' field contains '100'. The 'End phase' field contains '5'. The 'Type' field contains 'Normal'. The 'Batch' field contains 'Non-Specified'. The 'Free Mode' field contains '5'. The 'Free Mode' field has a dropdown menu with options 1 through 5.

STEP 6

You are able to view the **Cost per KG** here.
(this setting is adjusted in the Product settings)

The screenshot shows the 'Edit formula' interface for 'G1 CHEMICAL COMPANY VIC'. The 'Cost / kg' field is highlighted with a red box. The 'Substance' field contains 'Substance'. The 'Name' field contains 'Cost / kg'. The 'Percentage' field contains '100'. The 'End phase' field contains '5'. The 'Type' field contains 'Normal'. The 'Batch' field contains 'Non-Specified'. The 'Free Mode' field contains '5'. The 'Free Mode' field has a dropdown menu with options 1 through 5.

STEP 7

Next you can adjust the **Percentage** value for this formula

This can be adjusted to reduce the percentage of product delivered for this formula. It can be used if dosing to a different sized machine etc.

The screenshot shows the 'Edit formula' interface for 'G1 CHEMICAL COMPANY VIC'. The 'Percentage' field is highlighted with a red box. The 'Substance' field contains 'Substance'. The 'Name' field contains 'Cost / kg'. The 'Cost / kg' field contains '0.005'. The 'End phase' field contains '5'. The 'Type' field contains 'Normal'. The 'Batch' field contains 'Non-Specified'. The 'Free Mode' field contains '5'. The 'Free Mode' field has a dropdown menu with options 1 through 5.

STEP 8

After this you can adjust the **Estimated Time (min)** value for this formula.

This data is informative. It will be useful to obtain more complete statistics.

The screenshot shows the 'Edit formula' interface for 'G1 CHEMICAL COMPANY VIC'. The 'Estimated time (min)' field is highlighted with a red box. The 'Substance' field contains 'Substance'. The 'Name' field contains 'Cost / kg'. The 'Cost / kg' field contains '0.005'. The 'Percentage' field contains '100'. The 'End phase' field contains '5'. The 'Type' field contains 'Normal'. The 'Batch' field contains 'Non-Specified'. The 'Free Mode' field contains '5'. The 'Free Mode' field has a dropdown menu with options 1 through 5.

EDITING OR CREATING A NEW FORMULA

STEP 9

Using the drop down located here you are able to set the End Phase for this formula.

The End Phase denotes what the final phase the washing machine needs to enter to trigger a complete cycle for this Formula.

The screenshot shows the 'Edit formula' interface for 'Substance 1'. The 'End phase' dropdown menu is highlighted with a red box, showing the value '5'. Other fields include 'Name', 'Substance', 'Cost / kg', 'Percentage', 'Number', 'Estimated time (sec)', 'Type', 'Bleach', and 'Rinse Mode'.

STEP 10

You can now select the type of formula you are creating:

- Delicate
- Normal
- Heavy Soil
- Re-Process
- Desize
- Rinse/Spinning
- Recovery
- Other

This data is informative. It will be useful to obtain more complete statistics.

The screenshot shows the 'Edit formula' interface for 'Substance 1'. The 'Type' dropdown menu is highlighted with a red box, showing the value 'Normal'. Other fields include 'Name', 'Substance', 'Cost / kg', 'Percentage', 'Number', 'Estimated time (sec)', 'End phase', 'Temperature', 'Rinse Mode', and 'Bleach'.

STEP 11

If you have bleach for this formula, you can use the drop down here to select:

- Non Specified
- No bleach
- Yes (No chlorine)
- Yes (With chlorine)

This information is informative. It will be useful to get more detailed information about possible problems via the integrated "Help" function.

The screenshot shows the 'Edit formula' interface for 'Substance 1'. The 'Bleach' dropdown menu is highlighted with a red box, showing the value 'Non-Specified'. Other fields include 'Name', 'Substance', 'Cost / kg', 'Percentage', 'Number', 'Estimated time (sec)', 'End phase', 'Temperature', 'Rinse Mode', and 'Type'.

STEP 12

Here you can adjust the **Water Temperature** for this formula

The screenshot shows the 'Edit formula' interface for 'Substance 1'. The 'Temperature' dropdown menu is highlighted with a red box, showing the value 'Normal'. Other fields include 'Name', 'Substance', 'Cost / kg', 'Percentage', 'Number', 'Estimated time (sec)', 'End phase', 'Bleach', 'Rinse Mode', and 'Type'.

EDITING OR CREATING A NEW FORMULA

STEP 13

If you have bleach for this formula, you can use the drop down here to select:

- Non Specified
- No bleach
- Yes (No chlorine)
- Yes (With chlorine)

The screenshot shows the 'Edit formula' interface for 'IS CHEMICAL COMPANY VIC'. The 'Bleach' dropdown menu is open, showing options: 'Non Specified', 'No bleach', 'Yes (No chlorine)', and 'Yes (With chlorine)'. The 'Non Specified' option is currently selected. The 'Bleach' dropdown is highlighted with a red box.

STEP 14

To save the changes press the Tick icon in the bottom right.

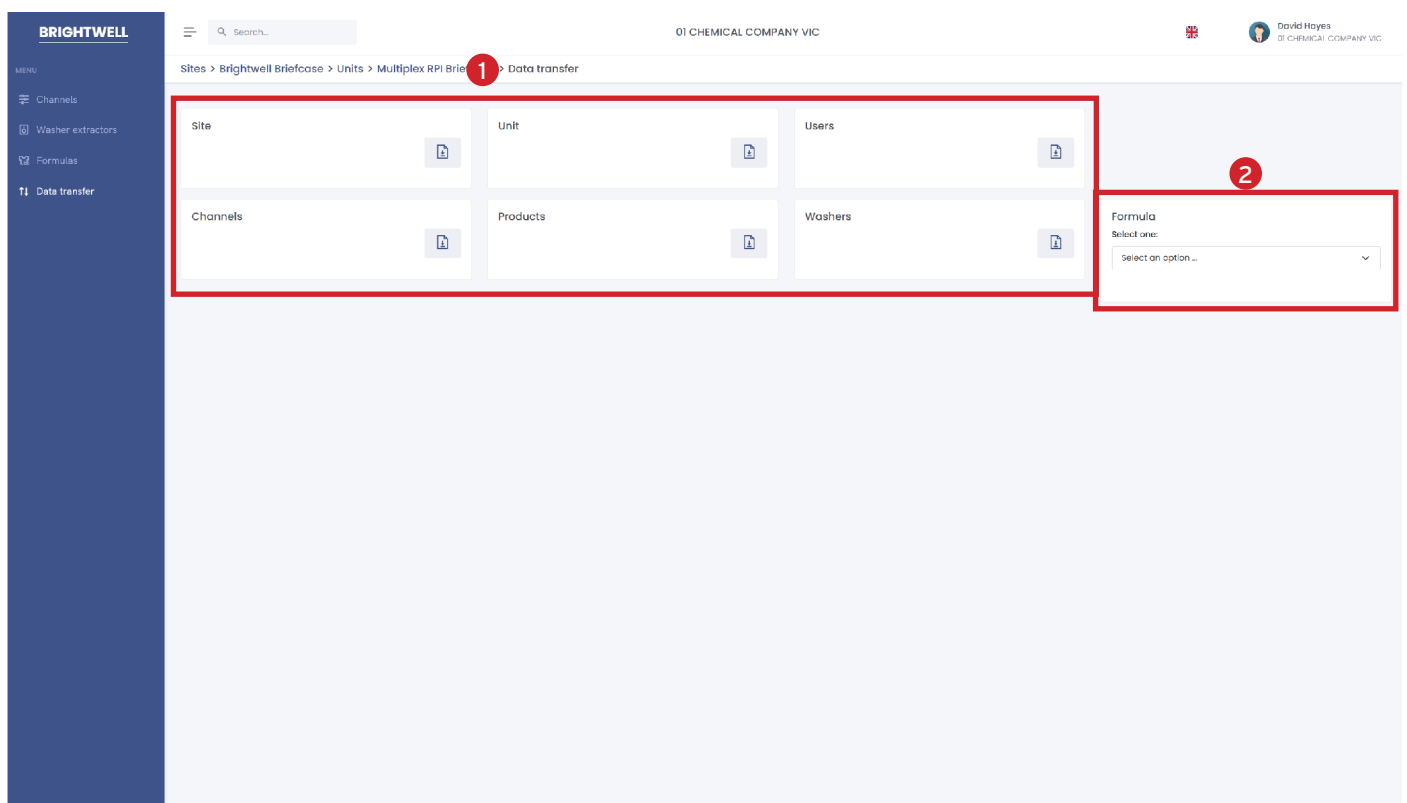
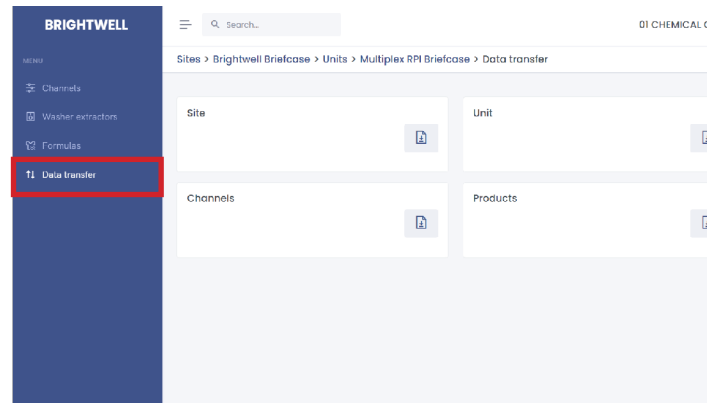
The screenshot shows the 'Edit formula' interface for 'IS CHEMICAL COMPANY VIC'. The 'Save' button, represented by a tick icon, is highlighted with a red box in the bottom right corner.

DATA TRANSFER OVERVIEW

Please note - To access the Data Transfer menu. Please refer to this previous section - [Accessing Channels, Washer Extractors, Formulas and Data Transfer](#)

STEP 1

To access the **Data Transfer** overview select the icon in the side navigation bar



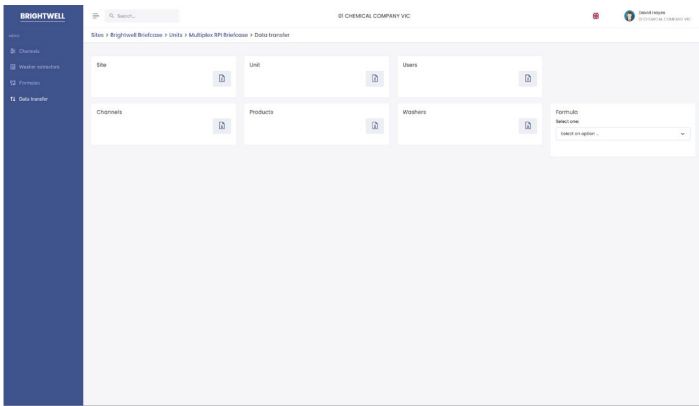
- 1** Allows you to download the individual settings from a unit to transfer. These include:
- Site
 - Unit
 - Users
 - Channels
 - Products
 - Washers

- 2** Use the drop down menu to select a specific formula to transfer

DATA TRANSFER SAVING A JSON FILE

STEP 1

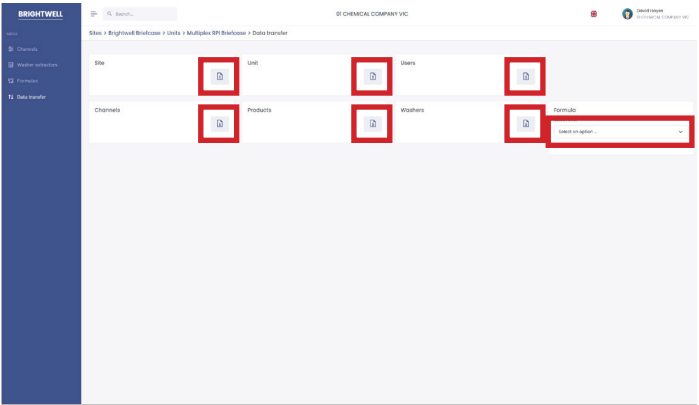
If you want to download JSON setup data for you Multiplex system and transfer it to an offline unit via the Web Server.



STEP 2

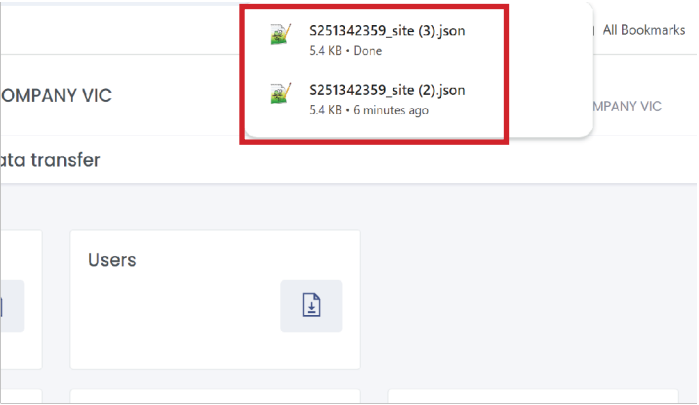
Using any of the **Download** icons seen on here, or the drop down for specific **Formula** data to download a file.

Please note - For the initial setup you will need to download ALL files. After this has been done, any changes to the Washers, Formulas or Channels can be downloaded and replaced individually. Please refer to the Configuration Tool user guide for information on how to upload to the unit.



STEP 3

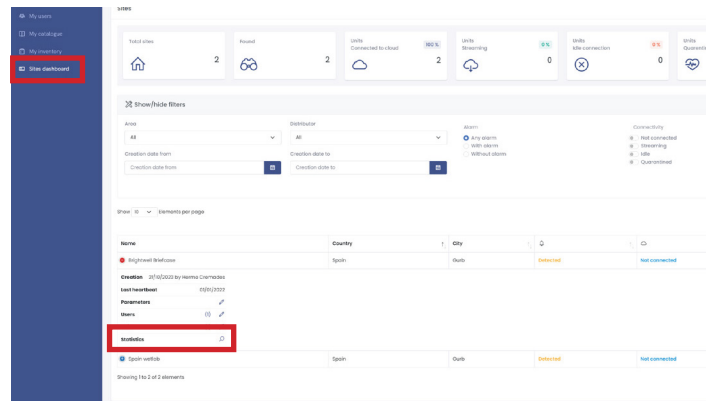
Once the JSON file has downloaded, it is ready to be used via the Configuration Tool.



STATISTICS

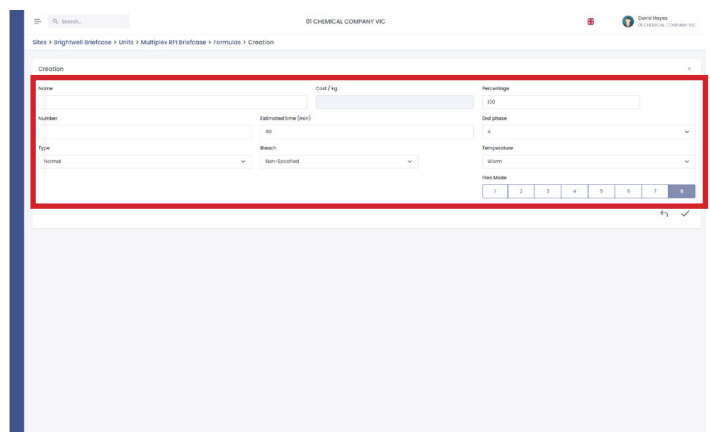
STEP 1

To access the **Statistics** you will need to be on the Sites Dashboard page. Click the + icon to expand the company and press on the Search icon that appears.



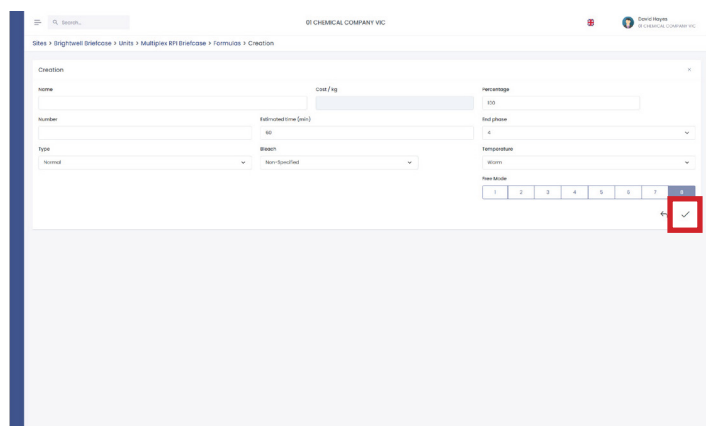
STEP 2

Use the options available here to set the parameters for your report including the machine and dates you want to run it between.



STEP 3

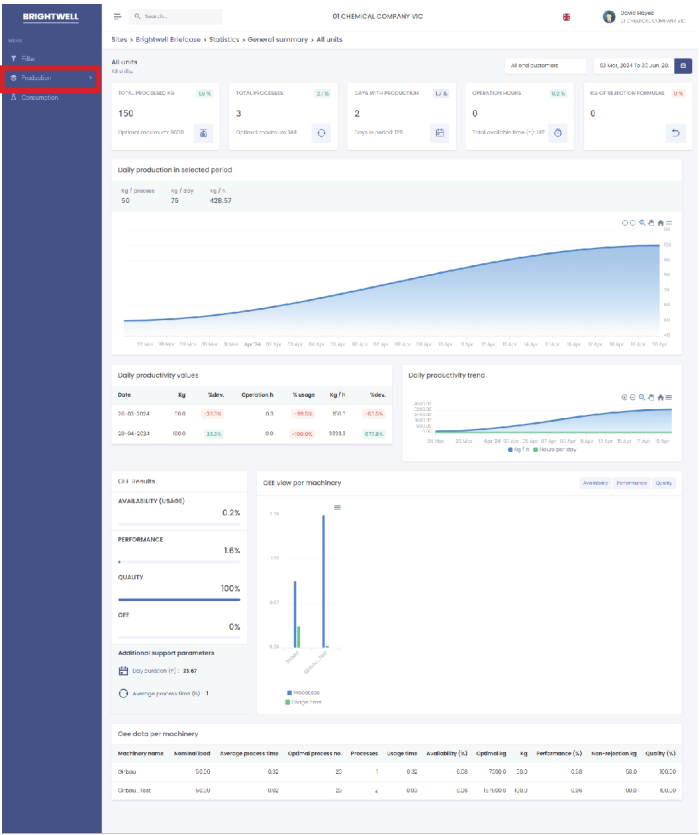
Use the Tick icon on the right hand side to start the report generation.



STATISTICS

STEP 4

Your statistics production stats will now display on the screen.



STEP 5

If you want to see the Consumption statistics for your unit press the **Consumption** icon in the side navigation bar



MAINTENANCE

ON EACH MAINTENANCE VISIT

Visual Check: Inspect all connections for leaks or product residues.

Alarms: Access the list of alarms via the webserver. If any particular alarm is noted on one or more days, prioritize addressing it.

EVERY 6 MONTHS

Visual check: look for leaks or product residues at any of the connections.

Alarms: By connecting to the webserver, look at the list of alarms of the equipment. If you notice a particular alarm on one or more days, focus on it.

Calibration: calibrate the products again. Thermal changes affect the viscosity of the product and it is possible that the calibration is not adjusted.

EVERY YEAR

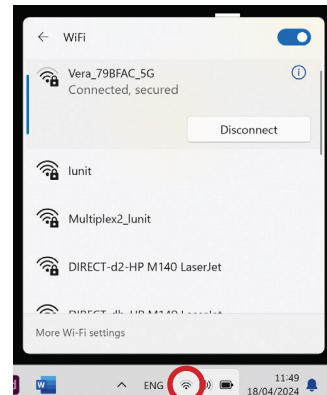
If the equipment operates regularly without seasonal shutdowns, ensure that the suction lines are in good condition. It is recommended to replace the suction line for alkaline products to prevent excessive hardening of the tubes and the risk of breakage

If the equipment is only used during the summer season, it is important to fill all lines with water at the end of the season, including the suction lines. This helps minimize the effects caused by contact with chemicals and prevents future problems.

CONNECTING TO THE UNIT WEB SERVER

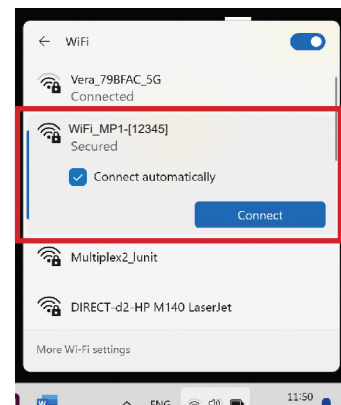
STEP 1

Each Multiplex unit enables direct connection through its web server. This connection is established via your computer's **Wifi network**. After powering on the unit, please allow 3 minutes for it to boot up and generate the server. To view available networks, simply click on the Wifi icon located in your toolbar.



STEP 2

Locate the network named according to Wifi, this appears as the make of the Multiplex and the unit serial, for example: "Wifi_OPL-[123456]", click 'Connect' and you will be prompted to enter the network password for your unit. (This password would have been set up during the ordering process)



STEP 3

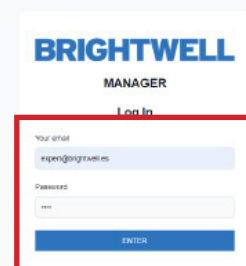
Open your chosen web browser and enter the following address: www.mplpro.com

*Please note - It can take up to two minutes to connect

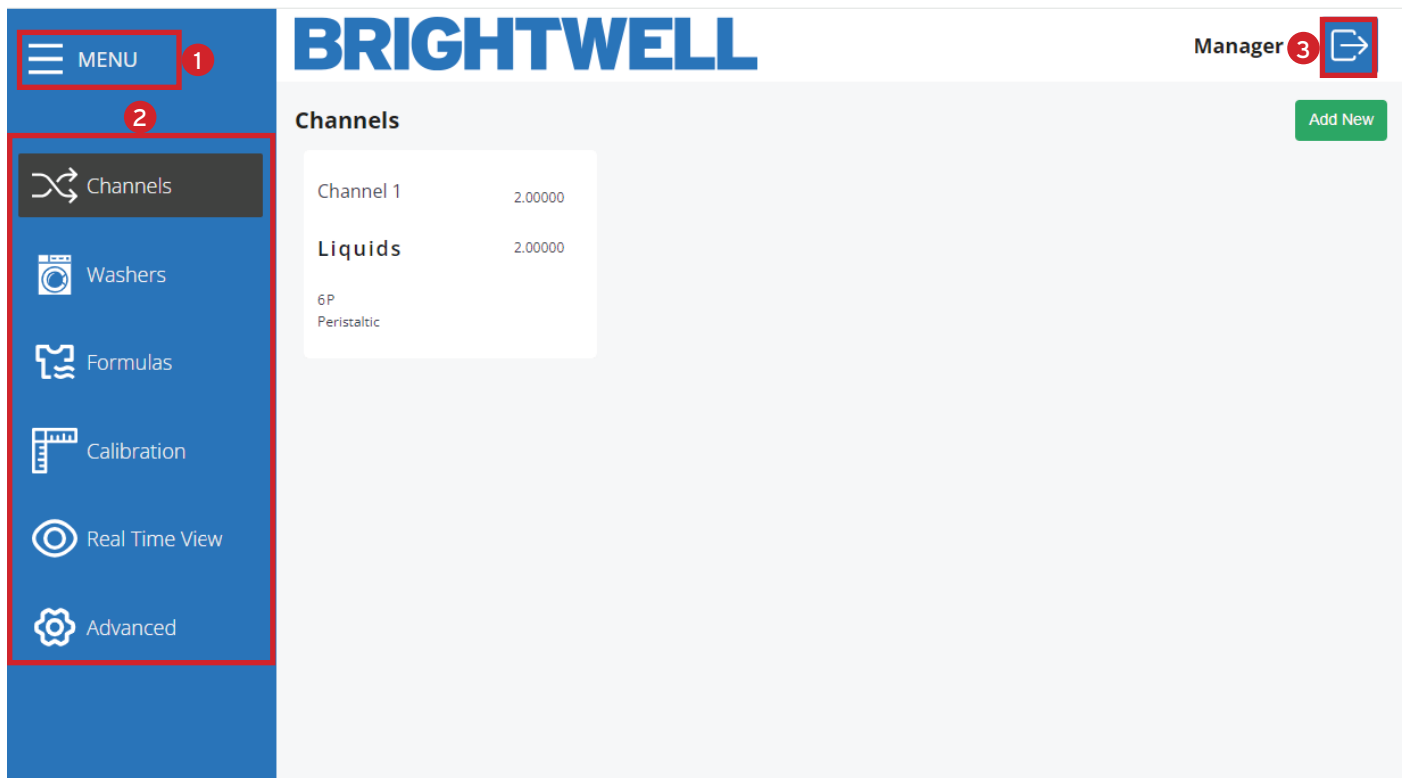


STEP 4

Once the login page for the unit has displayed enter the information into the boxes provided. Once complete press the 'Enter' button to log into the unit. (This information was setup during the ordering process)



OVERVIEW

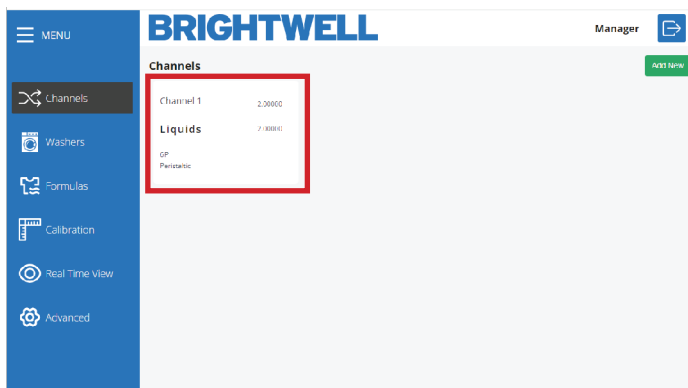


- 1** Number 1 highlights the expandable menu containing general settings for the configuration tool including;
 - Channels
 - Washers
 - Formulas
 - Calibration
 - Real time view
 - Advanced
 - Upload File
- 2** Number 2 is the side navigation bar displaying all menus allowing you to customise your Multiplex unit
- 3** Number 3 is how you disconnect from the unit.

CHANNELS TAB SETTINGS AND OPTIONS

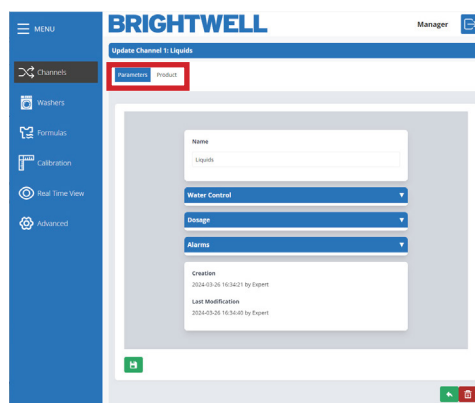
STEP 1

The first menu is 'Channels' which allows you to edit an existing channel or create a completely new one. If you select a channel you will be presented with the current configuration settings.



STEP 2

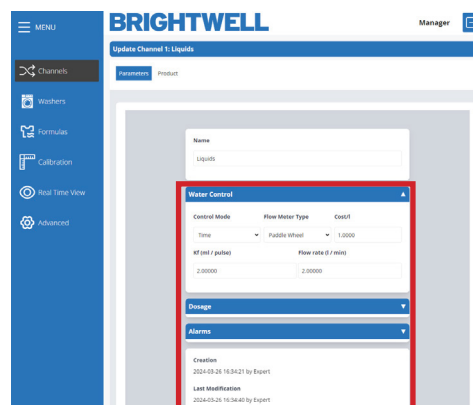
These settings are divided into the two tabs [Parameters](#) and **Product** at the top.



STEP 3

Use the expandable sections in the **Parameters** section to navigate through the editable settings and configure as required. These are expanded in the later section

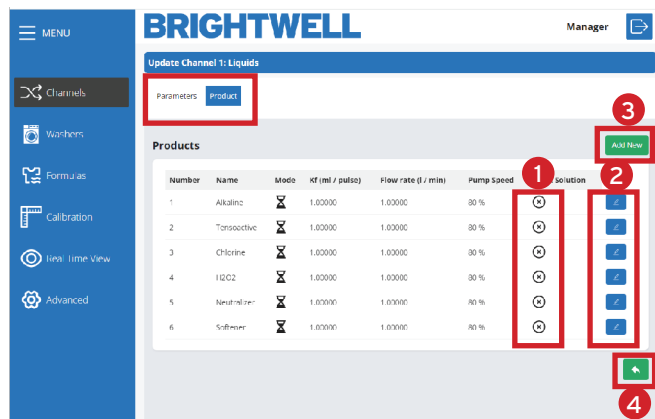
- Editing or Creating a New Channel (P11)



STEP 4

If you open the **Product** tab to move across to this section. From here you can access the following menus:

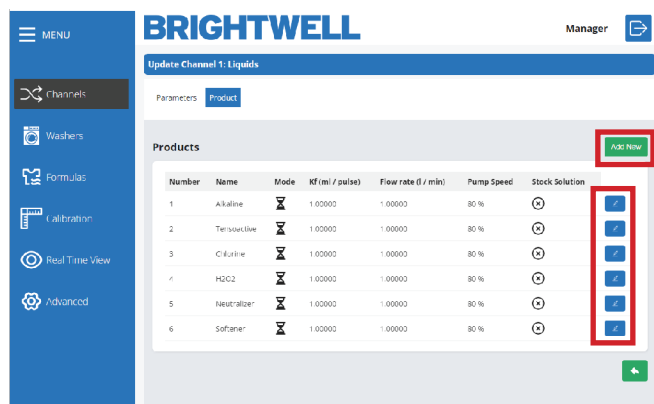
- 1 Delete the chemical
- 2 Edit the chemical details
- 3 Add a new chemical
- 4 Exit the Product menu



EDITING OR CREATING A NEW PRODUCT

STEP 1

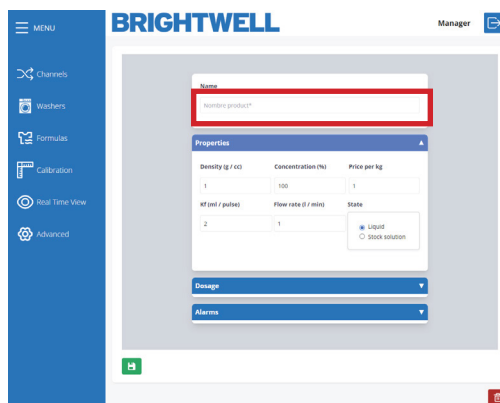
To edit an existing product press the **Edit** icon on the right hand side of the list. Alternatively, to add a new product to your system press the **Add New** button.



STEP 2

Use the first box to set the **Custom Product Name** for the chemical so you can identify it clearly.

It is advisable to be very precise with the name so no errors are made in selection.

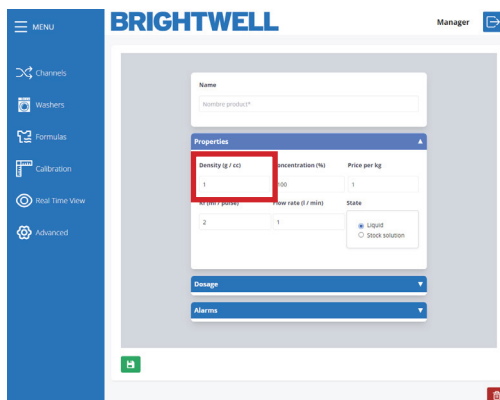


STEP 3

The next box allows you to set the **Density** of the product. Please refer to the chemical manufacturers values for this.

We recommend that this value is precise and based on the chemical data sheet. As this directly effects the dosage of the chemical

X value density / 1kg of laundry

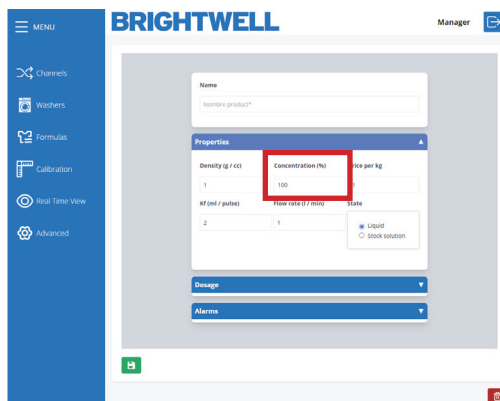


STEP 4

Next set your Product Concentration percentage if this is diluted.

If you are using products in pre-dilution and want the 'grams of pure product' you should set this field percentage to the direct dilution of the product. For example:

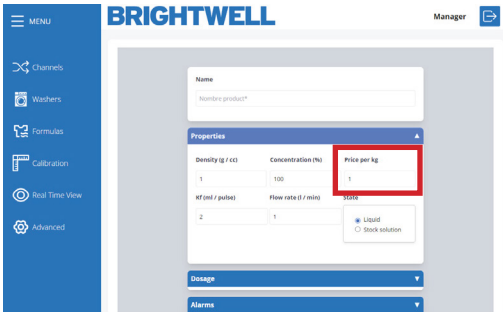
1000 litres you use 100kg of product your % = 1000/100 = 10%



EDITING OR CREATING A NEW PRODUCT

STEP 5

Below you can set the Price per KG of the product for cost reporting.

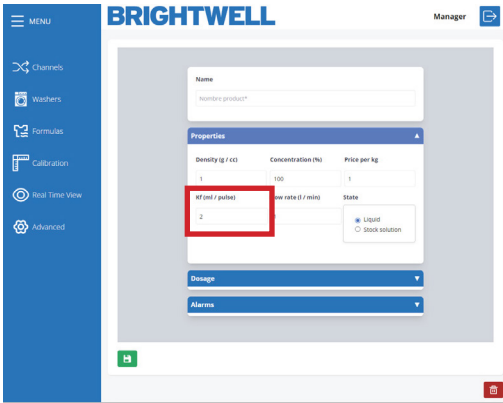


STEP 6

Here you can adjust the Kf value as required.

(Please note - These values are generated automatically by running a calibration on the unit seen later in this guide: - Running a Calibration.)

*We DO NOT advise setting the values manually

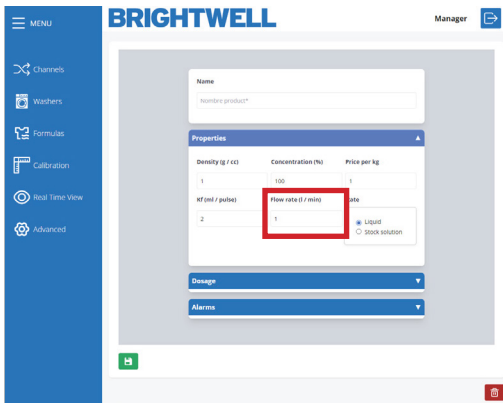


STEP 7

You can now set up the Flow Rate value for the chemical here.

(Please note - These values are generated automatically by running a calibration on the unit seen later in this guide: - Running a Calibration.)

*We DO NOT advise setting the values manually



EDITING OR CREATING A NEW PRODUCT

STEP 8

You can now adjust the **State** of the product using the drop down. You can select between:

- Liquid
- Solid Solution

The screenshot shows the BRIGHTWELL Manager interface. On the left is a blue sidebar with a 'MENU' button and icons for Channels, Washers, Formulas, Calibration, Real Time View, and Advanced. The main panel has a 'BRIGHTWELL' header and a 'Manager' button. Below the header is a form with sections: 'Name' (with a text input), 'Properties' (with a dropdown arrow), 'Dosage' (with a dropdown arrow), and 'Alarms' (with a dropdown arrow). The 'Properties' section is expanded, showing a table with columns: Density (g / cc), Concentration (%), Price per kg, and a 'State' dropdown. The 'State' dropdown is highlighted with a red box, showing 'Liquid' (selected) and 'Solid Solution' options.

STEP 9

Under the Dosage menu you can choose between:

- Modo de control
- Tiempo
- Caudalímetro

Recomendamos utilizar un caudalímetro en todas las configuraciones para maximizar toda la funcionalidad de su Equipo Multiplex.

The screenshot shows the BRIGHTWELL Manager interface. The 'Dosage' section is expanded, showing a 'Control Mode' dropdown. The dropdown is highlighted with a red box, showing 'Modo de control' (selected), 'Tiempo', and 'Caudalímetro' options.

STEP 10

Below you can now adjust the Pump Speed for this chemical.

We recommend a speed of:

- 80% - 100% for high volume delivery
- 30% - 80% for low volume delivery
- DO NOT use below 30% speed for delivery

The screenshot shows the BRIGHTWELL Manager interface. The 'Dosage' section is expanded, showing a 'Pump Speed %' input field. The input field is highlighted with a red box, showing a value of 80.

STEP 11

The final setting in the dosage column allows you to enable or disable the **Dosage Retry**.

This will enable the system to retry dosing the chemical if the correct number of pulses are not met in the expected delivery time.

The screenshot shows the BRIGHTWELL Manager interface. The 'Dosage' section is expanded, showing a 'Dosage Retry' checkbox. The checkbox is highlighted with a red box, showing it is currently unchecked.

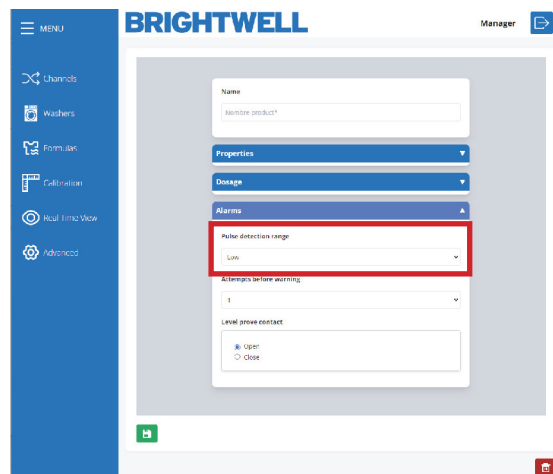
EDITING OR CREATING A NEW PRODUCT

STEP 12

At the bottom of the screen you can see the **Alarms settings**. The first box allows you to setup the **Pulse Detection Range**. You can select between:

- Low (30%)
- Medium (50%)
- High (70%)
- Maximum (100%)

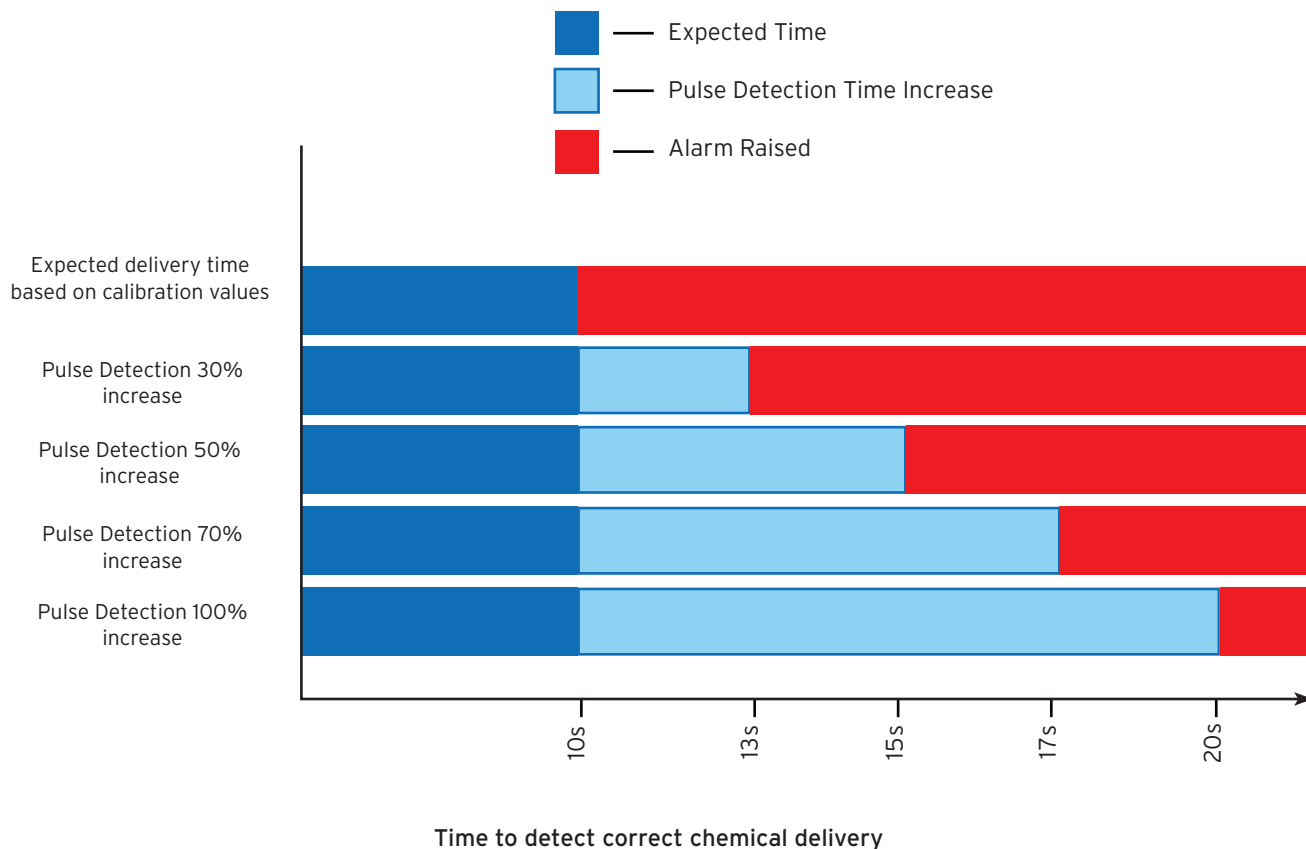
This is the additional time that can be added for the flow meter to detect the correct volume of chemical. A more detailed explanation is found below:



PULSE DETECTION RANGE

When dosing chemical it may be required to increase the detection range to allow for fluctuations in flow for the product. This may be needed when there is potentially gassing products causing gas to expand in the pipe, or very viscous products that can become more difficult to pump if left sedentary.

Below is a graph explaining the functionality.



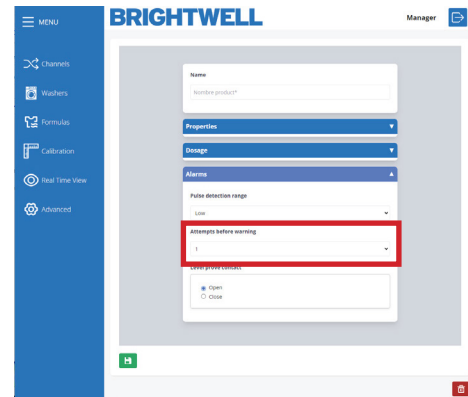
Please note - we advise setting this to as close to the expected delivery time as possible for accurate results and early warning of any potential hardware failures that may arise. Setting this to the maximum level by default will potentially hide maintenance issues that could be resolved before failure of the part.

EDITING OR CREATING A NEW PRODUCT

STEP 13

Below this you can set the number of retries before an alarm is raised.

The feature is only available with a flow meter installed. This stops consecutive audio alarms from sounding on the unit to reduce noise pollution in the laundry.

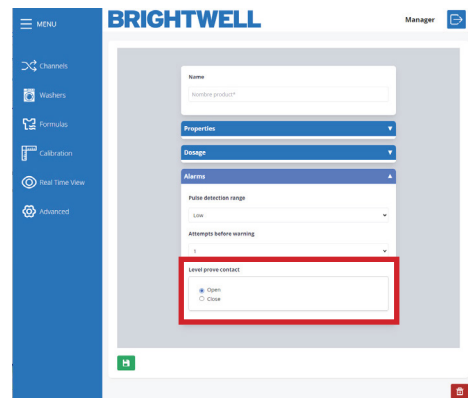


STEP 14

Finally, you can adjust the Level Probe Contact to:

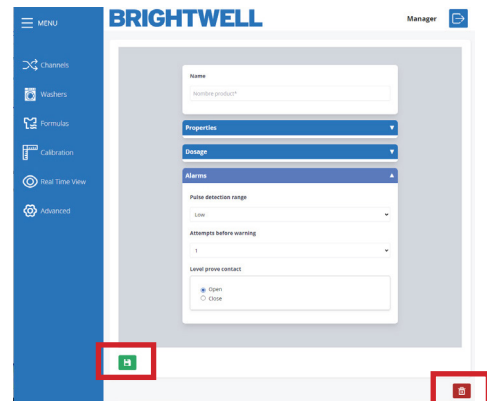
- Normally Open
- Normally Closed

Please note - The standard Brightwell products are Normally Closed




STEP 15

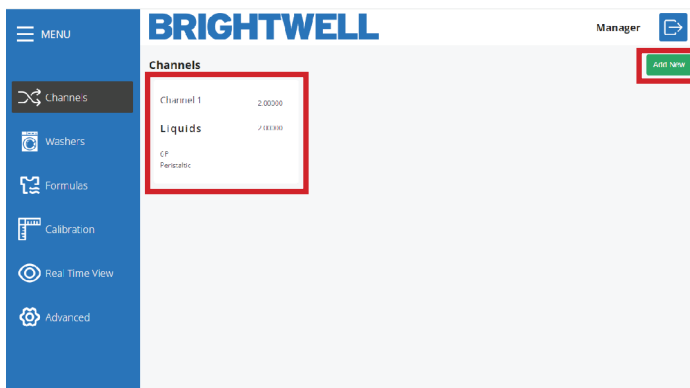
Pressing the **Save** icon located in the bottom left will save the details and complete the setup. Alternatively, the **Delete** icon will remove the chemical.



EDITING OR ADDING A NEW CHANNEL

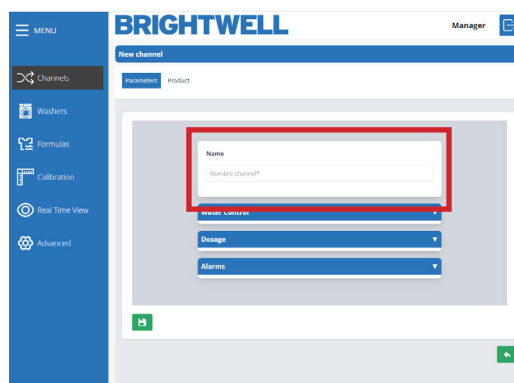
STEP 1

To edit an existing channel press the  in the channels list. Alternatively, to add an additional channel to your Multiplex setup press the **Add New** button in the top right of the screen.



STEP 2

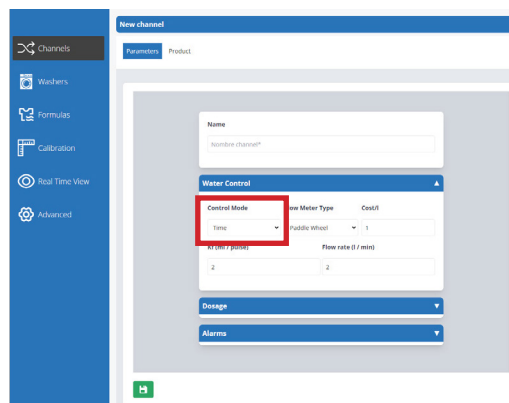
Initially you can set the name for your new channel.



STEP 3

The final setting in this menu is the **Control Mode**. Where you can select between Time or Flow meter.

*We recommend using a flow meter for your Multiplex as it guarantees accurate chemical delivery to your machines. This option is to allow for temporary use of the unit while you await repairs.

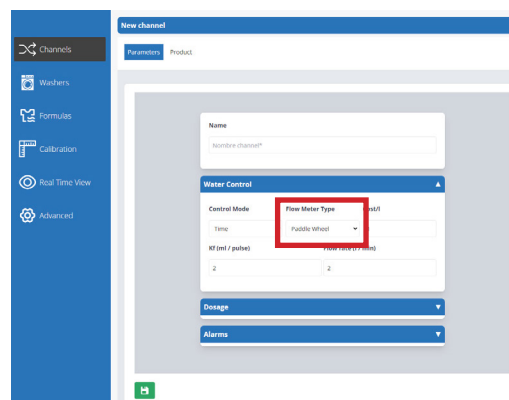


STEP 4

Select the correct **Flow Meter Type** using the drop down:

- Paddles
- Oval-Gear
- Thermal

Please note: Do not change this unless you have replaced the flow meter provided from your supplier.



EDITING OR ADDING A NEW CHANNEL

STEP 5

Next is the **Cost value** for the water of this channel, this is used for cost reporting.

The screenshot shows the 'New channel' form with the 'Parameters' tab selected. The 'Water Control' section is expanded, showing fields for 'Control Mode', 'Flow Meter Type', and 'Cost'. The 'Cost' field is highlighted with a red box and contains the value '1'. Below it, the 'Kf (ml / pulse)' field is also highlighted with a red box and contains the value '2'. The 'Flow rate (l / min)' field is visible but not highlighted.

STEP 6

Here you can adjust the **Kf value** as required.

(Please note - These values are generated automatically by running a calibration on the unit seen later in this guide: - Running a Calibration

*We DO NOT advise setting the values manually

The screenshot shows the 'New channel' form with the 'Parameters' tab selected. The 'Water Control' section is expanded, showing fields for 'Control Mode', 'Flow Meter Type', and 'Cost'. The 'Kf (ml / pulse)' field is highlighted with a red box and contains the value '2'. The 'Flow rate (l / min)' field is visible but not highlighted.

STEP 7

You can now set up the **Flow Rate** value for the chemical here.

(Please note - These values are generated automatically by running a calibration on the unit seen later in this guide: - Running a Calibration

*We DO NOT advise setting the values manually

The screenshot shows the 'New channel' form with the 'Parameters' tab selected. The 'Water Control' section is expanded, showing fields for 'Control Mode', 'Flow Meter Type', and 'Cost'. The 'Flow rate (l / min)' field is highlighted with a red box and contains the value '2'. The 'Kf (ml / pulse)' field is visible but not highlighted.

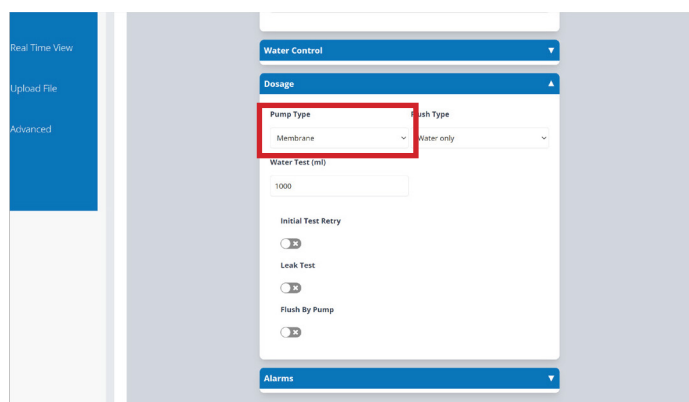
EDITING OR ADDING A NEW CHANNEL

STEP 8

If you need to adjust the [Pump Type](#) for the unit you can use the drop down menu to choose between:

- Peristaltic
- Motor
- Membrane
- Pneumatic
- Venturi

The recommended configuration for the Multiplex is water or air flush with a membrane or pneumatic pump. (Based on each site)



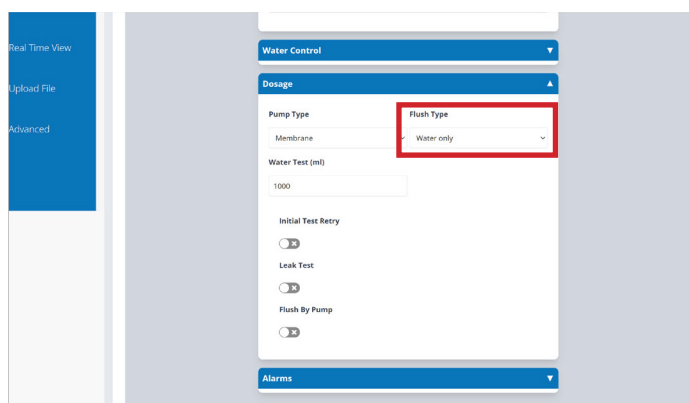
STEP 9

If you need to adjust the [Flush Type](#) for the channel use this drop down to choose between;

- No Flush
- Only Water
- Air

It is recommended to use water for set-ups where the distance between the distributor and unit is under 40 metres. Over 40 metres we advise using Air flush and a water test of over 1000ml to prevent product residue building up.

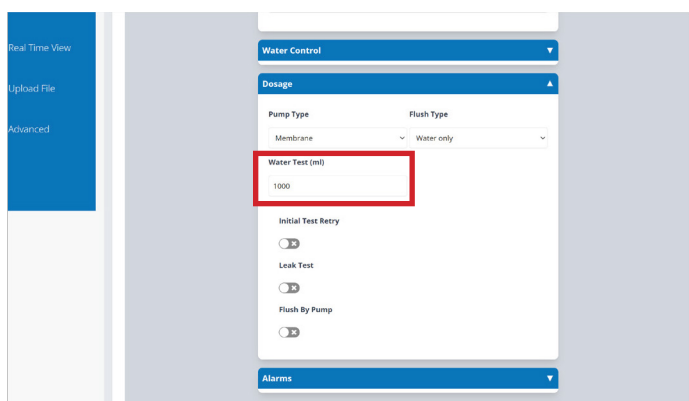
It is only recommended to use no flush when you have chemicals that become more viscous with water or the product is going directly to the washer.



STEP 10

Next you can adjust the Water Test volume for your channel. The minimum value for this is 700 ml to ensure a correct test and separation of chemicals.

A water test is used to verify that the minimum indispensable conditions and that the product will reach its destination. A water test is recommended when products with high viscosity or high surface tension pass through the channel.

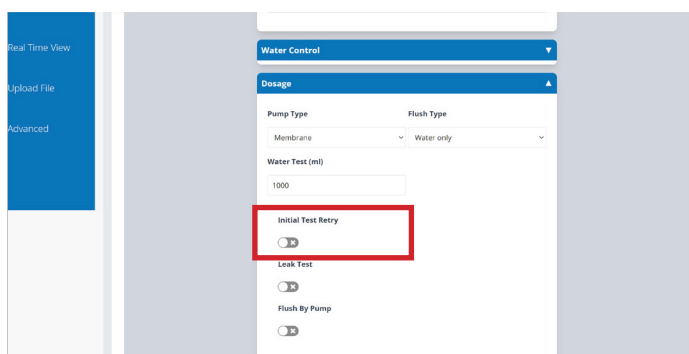


STEP 11

Below this you can set the number of retries before an alarm is raised.

The feature is only available with a flow meter installed. This stops consecutive audio alarms from sounding on the unit to reduce noise pollution in the laundry.

*This is **ONLY** for the product dosage and water flush test. Not initial leak test.*



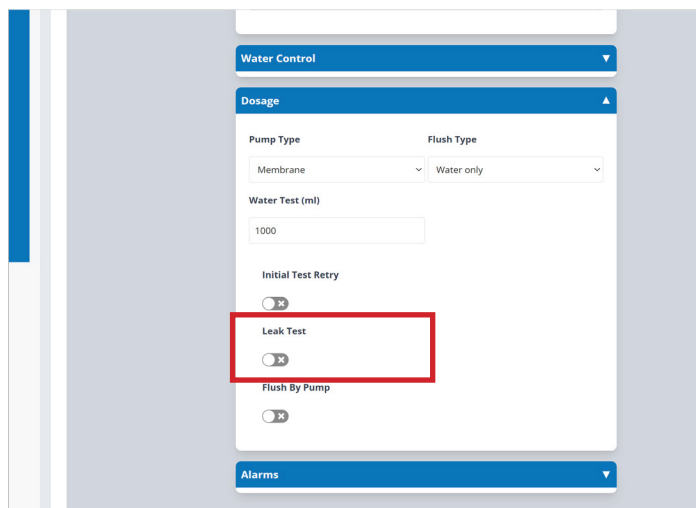
EDITING OR ADDING A NEW CHANNEL

STEP 12

Next enable or disable the [Leak Test](#) for the channel.

A leak test ensures that none of the valves on the unit are damaged by closing the valves and driving water to them, looking at the flow meter to see if any Pulses are detected. It is highly recommended that this option is enabled, however it may be needed to be deactivated for some examples:

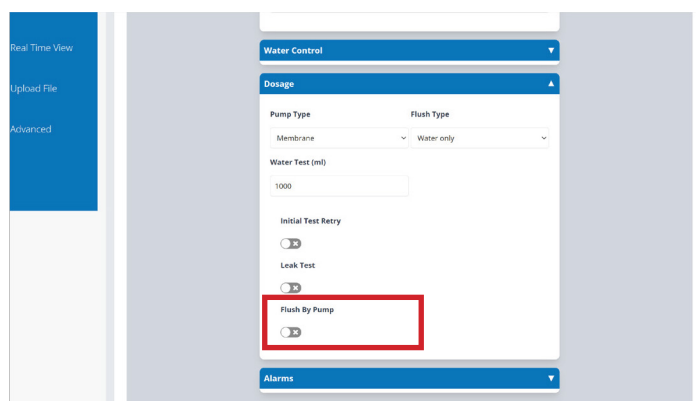
- The pipe is soft and allows for expansion or compression
- There is a longer distance of pipe to the distributor
- The channel product is dosed directly to the distributor



STEP 13

Another [flush](#) setting can be adjusted next, selecting if you are flushing with only a pump or not.

*This is not a recommended setup option and is only used when you do not have pressure regulated water for your setup. If this is the case, we advise the purchase of a booster tank to stabilise water pressure and ensure unit performance and reliability.



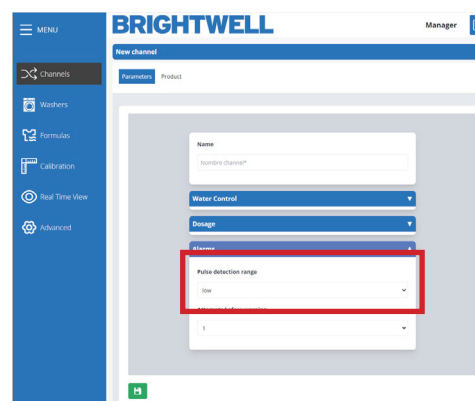
STEP 14

At the bottom of the screen you can see the Alarms settings. The first box allows you to setup the Pulse Detection Range. You can select between:

- Low (30%)
- Medium (50%)
- High (70%)
- Maximum (100%)

This is the additional time that can be added for the flow meter to detect the correct volume of chemical. A more detailed explanation is found earlier here:

[Pulse Detection Range](#)



EDITING OR ADDING A NEW CHANNEL

STEP 15

Below this you can set the number of retries before an alarm is raised.

The feature is only available with a flow meter installed. This stops consecutive audio alarms from sounding on the unit to reduce noise pollution in the laundry.

This is ONLY for the product dosage and water flush test. Not initial leak test

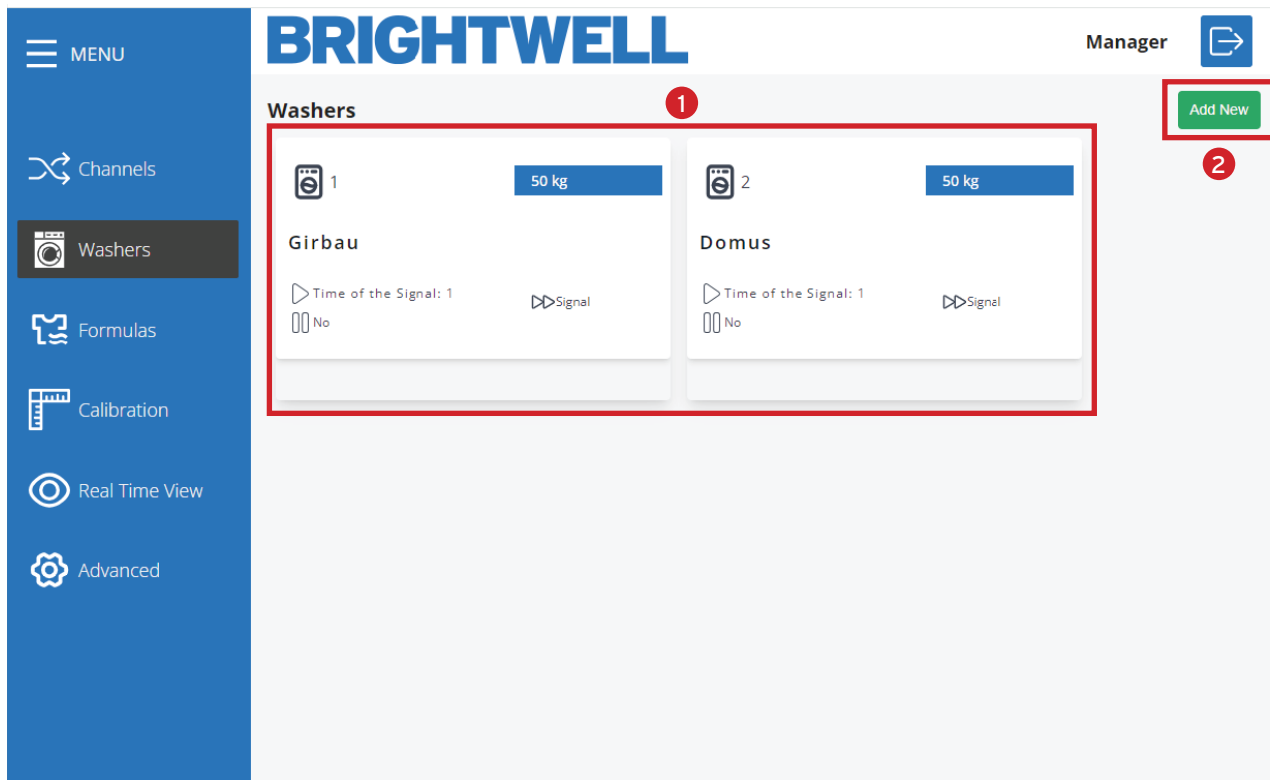
The screenshot shows the 'BRIGHTWELL Manager' interface. On the left is a blue sidebar menu with options: MENU, Channels, Washers, Formulas, Calibration, Real Time View, and Advanced. The main area is titled 'New channel' and has tabs for 'Parameters' and 'Product'. Under 'Parameters', there are sections for 'Name' (with a text input), 'Water Control' (a dropdown), 'Dosage' (a dropdown), and 'Alarms' (a dropdown). Under 'Alarms', there is a 'Pulse detection range' section with a 'Low' dropdown, and an 'Attempts before warning' section with a dropdown menu currently showing '1'. This dropdown is highlighted with a red rectangular box. At the bottom left of the main content area is a green 'Save' icon.

STEP 16

To save your new channel and its settings press the **Save** icon located at the bottom left of the screen

This screenshot is identical to the one in Step 15, showing the 'BRIGHTWELL Manager' 'New channel' settings page. However, in this step, the green 'Save' icon at the bottom left of the main content area is highlighted with a red rectangular box.

WASHERS

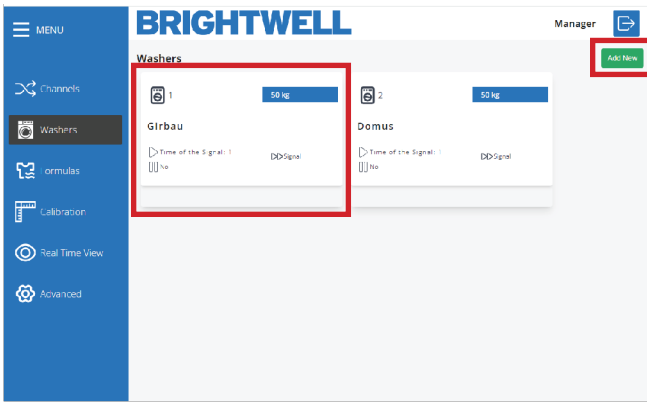


- 1 Number 1 are the current washers setup on the system giving you basic information on the machine details. You can click on any of these to open up the configuration and setup.
- 2 Number 2 is the side navigation bar displaying all menus allowing you to customise your Multiplex unit.

EDITING OR ADDING A NEW WASHER

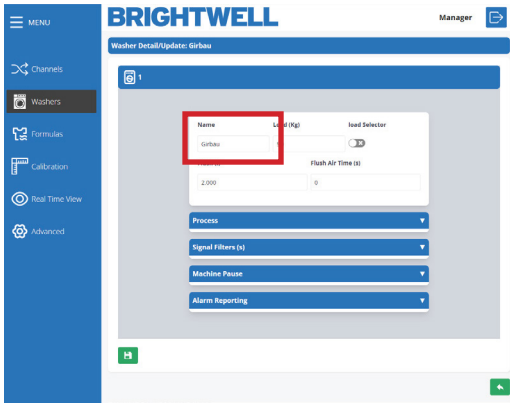
STEP 1

To edit an existing washer click on the icon on the main Washers tab. Alternatively, to create a new press the Add New button located in the top right.



STEP 2

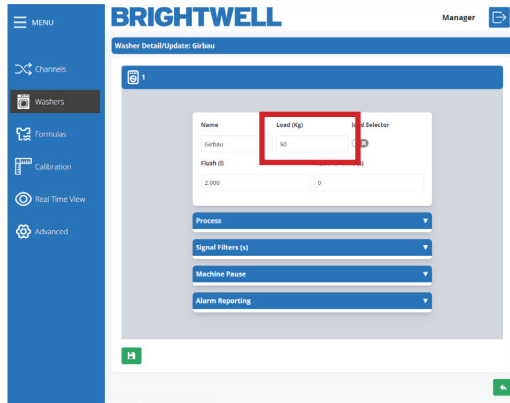
The first section allows you to set the Custom Name for the washer.



STEP 3

Next, you can set the Total Load in Kg for the Washer.

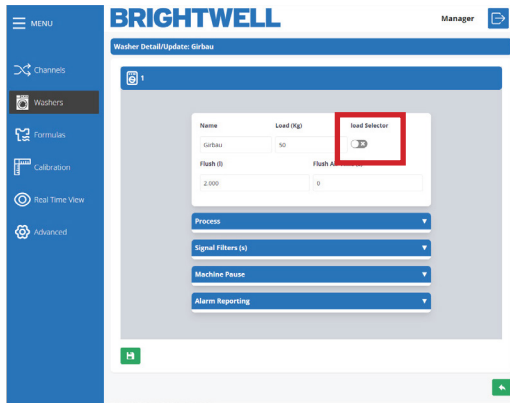
This field is essential in calculating the total volume to be dosed to the load.



STEP 4

You can now enable or disable the Load Selection for this washer.

This setting requires a formula select, so please contact Brightwell to discuss this setting and equipment if required.



EDITING OR ADDING A NEW WASHER

STEP 5

The next box allows you to set the **Water Flush (I)** quantity required.
Alternatively, if you are using air flush you can use the **Air Time (S)** box below this instead.

This value needs to be precise for correct delivery of chemical. Please run a visual check of the water required to completely inject the chemical into the machine, as this varies based on distance from the distributor.

STEP 6

In the Dosing Process column you can first set the Formula ID section. This can be:

- Selector
- Time of signal 8
- Time of signal 1+8
- Binary
- Free

Please refer to the next section for a more detailed explanation.

SIGNAL TIME 8

Esto selecciona el programa basado en intervalos de 5 segundos de la Señal 8 que va alta. Esta configuración se aconseja para Equipos con un número inferior de fórmulas (1-20). Consulte la tabla siguiente para conocer los tiempos.

Formula	Signal 8 Time on	Formula	Signal 8 Time on	Formula	Signal 8 Time on	Formula	Signal 8 Time on
1	5 s	5	25 s	9	45 s	13	65 s
2	10 s	6	30 s	10	50 s	14	70 s
3	15 s	7	35 s	11	55 s	15	75 s
4	20 s	8	40 s	12	60 s	16...	80 s...

EDITING OR ADDING A NEW WASHER

SIGNAL TIME 1+8

This selects the program based on the duration of signals 1 and 8 going high simultaneously. This setting is advised for units that have a larger volume of formulas to select (20+) The below table explains the timing and selection details.

Formula	Signal 1 Time on	Signal 8 Time on	Formula	Signal 1 Time on	Signal 8 Time on	Formula	Signal 1 Time on	Signal 8 Time on	Formula	Signal 1 Time on	Signal 8 Time on
1	5 s	5 s	11	10 s	5 s	21	15 s	5 s	31	20 s	5 s
2	5 s	10 s	12	10 s	10 s	22	15 s	10 s	32	20 s	10 s
3	5 s	15 s	13	10 s	15 s	23	15 s	15 s	33	20 s	15 s
4	5 s	20 s	14	10 s	20 s	24	15 s	20 s	34	20 s	20 s
5	5 s	25 s	15	10 s	25 s	25	15 s	25 s	35	20 s	25 s
6	5 s	30 s	16	10 s	30 s	26	15 s	30 s	36	20 s	30 s
7	5 s	35 s	17	10 s	35 s	27	15 s	35 s	37	20 s	35 s
8	5 s	40 s	18	10 s	40 s	28	15 s	40 s	38	20 s	40 s
9	5 s	45 s	19	10 s	45 s	29	15 s	45 s	39	20 s	45 s
10	5 s	50 s	20	10 s	50 s	30	15 s	50 s	40	20 s	50 s

BINARY

For this mode the unit will select a program based on the below signal combinations.

Formula	8	7	6	5	4	3	2	1
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								

Formula	8	7	6	5	4	3	2	1
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								

Formula	8	7	6	5	4	3	2	1
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								

FREE MODE

Free mode allows the users to build a custom list of formula selection based on incoming signals. These are **ONLY** defined via the web portal or web server, they cannot be defined on the On Screen setup.

EDITING OR ADDING A NEW WASHER

STEP 7

After this you can select the **Dosed Phase ID** number using the drop down here.

*This allows you to customise what state the machine will enter on receiving the first signal.
If you set this to Phase 0, the unit will not begin dosing until a signal is received from the washer.
If you set this to Phase 1 the unit will immediately begin to dose after the auto formula select signal is confirmed.*

The screenshot shows the 'Washer Detail/Update: Carbox' screen in the BRIGHTWELL Manager. The 'Dosed Phase on ID' dropdown menu is highlighted with a red box. The screen includes fields for Name, Load (kg), Load Selector, Flush (s), Flush Air Time (s), Formula ID, Time of Signal s, Phase Trigger mode, Selector default Formula, Loading / Unloading Time (min), and Signal Filters (s).

STEP 8

You can now choose between how the phase of dosification is activated, **Signal** or **Sequential**.

Signal mode defines that the machine itself will send a signal to identify what phase it is entering.

Sequential mode sets it so that it will move sequentially through the phases one by one in a logical order.

The screenshot shows the 'Washer Detail/Update: Carbox' screen in the BRIGHTWELL Manager. The 'Phase Trigger mode' dropdown menu is highlighted with a red box. The screen includes fields for Name, Load (kg), Load Selector, Flush (s), Flush Air Time (s), Formula ID, Time of Signal s, Phase Trigger mode, Selector default Formula, Loading / Unloading Time (min), and Signal Filters (s).

STEP 9

If you have Selector chosen you will also have the option to set the **Selector Default Formula**. Which will default back to after a successful cycle.

The screenshot shows the 'Washer Detail/Update: Carbox' screen in the BRIGHTWELL Manager. The 'Selector default Formula' dropdown menu is highlighted with a red box. The screen includes fields for Name, Load (kg), Load Selector, Flush (s), Flush Air Time (s), Formula ID, Time of Signal s, Phase Trigger mode, Selector default Formula, Loading / Unloading Time (min), and Signal Filters (s).

STEP 10

Finally you can adjust the time required to load or unload the machine.

The screenshot shows the 'Washer Detail/Update: Carbox' screen in the BRIGHTWELL Manager. The 'Loading / Unloading Time (min)' dropdown menu is highlighted with a red box. The screen includes fields for Name, Load (kg), Load Selector, Flush (s), Flush Air Time (s), Formula ID, Time of Signal s, Phase Trigger mode, Selector default Formula, Loading / Unloading Time (min), and Signal Filters (s).

EDITING OR ADDING A NEW WASHER

STEP 11

The final box in the **Signal Filters** column allows you to adjust the **Lock time** for the equipment to allow new signals, once the **RESET** has been completed.

STEP 12

You can then adjust the time that the device would block reception of signals, after having received a valid signal.

With this option, we prevent possible “bounces” of a signal from being mistaken for input signals

STEP 13

In the **Signal Filters** column the first box allows you to adjust the **Minimum Time** for an accepted signal. This stops ghost signals from triggering the machine.

STEP 14

The last column is the **W.E Pause (Washer Extractor Pause)** section.

The first box allows you to adjust the Activation between:

- No (Deactivated)
- While in queue
- While in queue and dosage

The washer pause functionality allows for 'queuing' of machines when they request chemical delivery while the unit is busy.

When a machine is 'waiting' its timer is paused so that the wash can complete a full cycle correctly. The above options allow you to adjust when the 'pause timer' begins again.

EDITING OR ADDING A NEW WASHER

STEP 15

The final section allows you to toggle what alarms are enabled on your washe:

- Missing Phases
- Internal Error
- Unfinished Process
- Level / Temp. Time-out
- Communication Errors
- Data Out Of Range

The screenshot shows the BRIGHTWELL Manager interface. On the left is a blue sidebar menu with options: MENU, Channels, Washers (selected), Formulas, Calibration, Real Time View, and Advanced. The main content area is titled 'Washer Details/Options: G12New' and includes a 'Manager' button. Below the title, there are input fields for 'Name' (G12New), 'Load (KG)' (50), and 'Load Selector' (a dropdown). There are also fields for 'Flash (s)' (2.000) and 'Flash Air Time (s)' (0). Below these are expandable sections for 'Process', 'Signal Filters (s)', and 'Machine Phase'. The 'Alarms Reporting' section is expanded and highlighted with a red rectangle, showing a grid of toggle switches for various alarms: Missing Phases, Internal Error, Unfinished Process, Level / Temp. Timeout, Control Error, and Data out of Range. All toggles are currently turned on.

FORMULAS

MENU

Channels

Washers

Formulas

Calibration

Real Time View

Advanced

BRIGHTWELL

Manager

Formulas

1

Add New

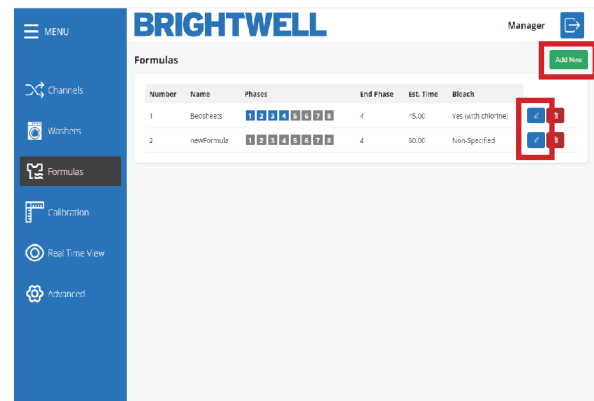
Number	Name	Phases	2	End Phase	Est. Time	Bleach	3
1	Bedsheets	<div>12345678</div>	4	45.00	Yes (with chlorine)	<div><div>3</div><div></div></div>	
2	newFormula	<div>12345678</div>	4	60.00	Non-Specified	<div><div>3</div><div></div></div> <div>4</div>	

- 1 Number 1 is the Add New button to create a new formula
- 2 Number 2 displays the phases that have configuration data setup within the formula.
- 3 Number 3 Is the Edit button, allowing you to edit the configuration of an existing formula.
- 4 Number 4 is the Delete button, allowing you to remove a formula.

EDITING OR ADDING A NEW FORMULA

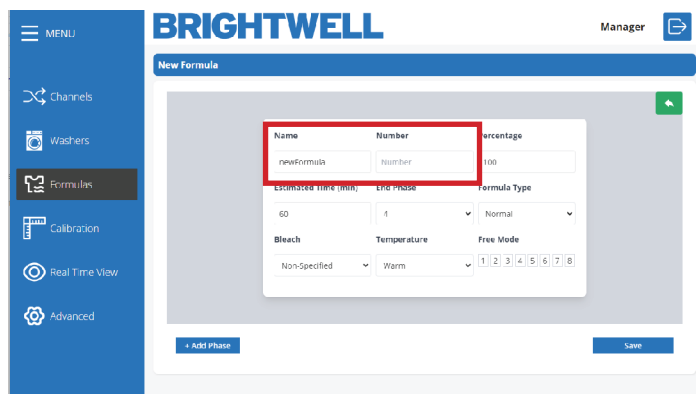
STEP 1

To edit an existing formula on your system press the **Edit** button located on the right hand side. Alternatively, press the **Add New** icon in the top right to create a new formula.



STEP 2

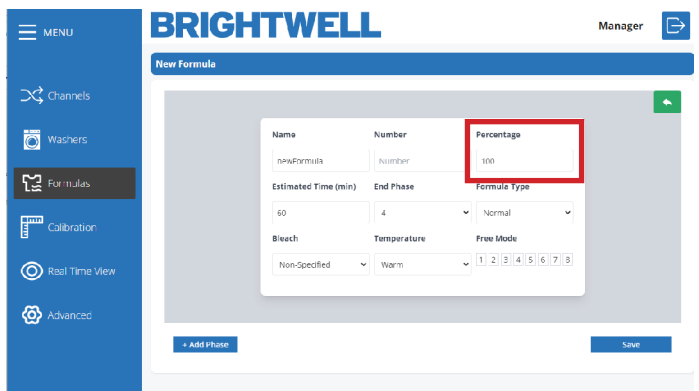
The first two boxes allow you to edit the **Name** of the formula and the assigned **Program Number**.



STEP 3

Next you can adjust the **Percentage** value for this formula.

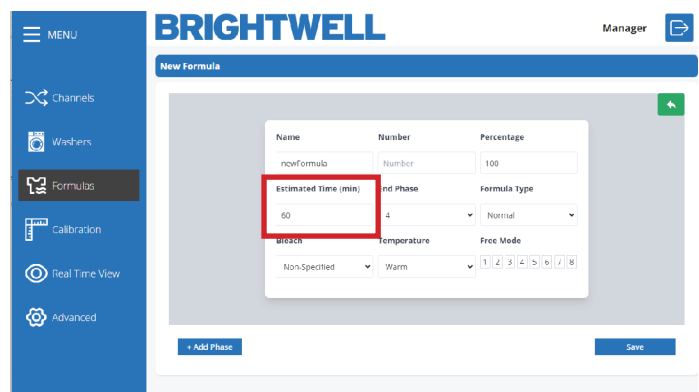
This can be adjusted to reduce the percentage of product delivered for this formula. It can be used if dosing to a different sized machine etc.



STEP 4

After this you can adjust the **Estimated Time (min)** value for this formula.

This is a rough time that the formula will take to complete.



EDITING OR ADDING A NEW FORMULA

STEP 5

Using the drop down located here you are able to set the **End Phase** for this formula.

The End Phase denotes what the final phase the washing machine needs to enter to trigger a complete cycle for this Formula.

The screenshot shows the 'New Formula' form in the BRIGHTWELL interface. The 'End Phase' dropdown menu is highlighted with a red box, showing the value '4'. Other fields include 'Name' (newFormula), 'Number' (Number), 'Percentage' (100), 'Estimated Time (min)' (60), 'Bleach' (Non-Specified), and 'Temperature' (Warm). The 'Formula Type' is set to 'Normal'.

STEP 6

You can now select the Formula Type you are creating:

- Delicate
- Normal
- Heavy Soil
- Re-Process
- Desize
- Rinse/Spinning
- Recovery
- Other

This data is informative. It will be useful to obtain more complete statistics.

The screenshot shows the 'New Formula' form in the BRIGHTWELL interface. The 'Formula Type' dropdown menu is highlighted with a red box, showing the value 'Normal'. Other fields include 'Name' (newFormula), 'Number' (Number), 'Percentage' (100), 'Estimated Time (min)' (60), 'End Phase' (4), 'Bleach' (Non-Specified), and 'Temperature' (Warm). The 'Free Mode' is set to '1'.

STEP 7

If you have bleach for this formula, you can use the drop down here to select:

- Non Specified
- No bleach
- Yes (No chlorine)
- Yes (With chlorine)

The screenshot shows the 'New Formula' form in the BRIGHTWELL interface. The 'Bleach' dropdown menu is highlighted with a red box, showing the value 'Non-Specified'. Other fields include 'Name' (newFormula), 'Number' (Number), 'Percentage' (100), 'Estimated Time (min)' (60), 'End Phase' (4), 'Formula Type' (Normal), and 'Temperature' (Warm). The 'Free Mode' is set to '1'.

STEP 8

You can now set the desired temperature for the formula:

- Cold
- Warm
- Hot
- High Temperature

This data is informative. It will be useful to obtain more complete statistics.

The screenshot shows the 'New Formula' form in the BRIGHTWELL interface. The 'Temperature' dropdown menu is highlighted with a red box, showing the value 'Warm'. Other fields include 'Name' (newFormula), 'Number' (Number), 'Percentage' (100), 'Estimated Time (min)' (60), 'End Phase' (4), 'Formula Type' (Normal), 'Bleach' (Non-Specified), and 'Free Mode' (1).

EDITING OR ADDING A NEW FORMULA

STEP 9

If you are using **Free Mode** for your unit you can set the **Formula Input Signals** here.

The screenshot shows the 'New Formula' interface in the BRIGHTWELL Manager. The left sidebar contains a 'MENU' with options: Channels, Washers, Formulas (selected), Calibration, Real Time View, and Advanced. The main area has a 'New Formula' header and a form with fields: Name (newFormula), Number (Number), Percentage (100), Estimated Time (min) (60), End Phase (4), Formula Type (Normal), Bleach (Non-Specified), and Temperature (Warm). A red box highlights the 'Free Mode' dropdown menu, which shows a list of input signals numbered 1 to 8.

STEP 10

Now that you have completed the basic details for the formula you will need to set up the phases. Press the **Add Phase** at the bottom left.

This screenshot is identical to the one in Step 9, showing the 'New Formula' screen. A red box highlights the '+ Add Phase' button located at the bottom left of the form area.

STEP 11

Within the **Add Phase** screen you can adjust the **Product Delivery** levels for each phase. Using the drop down menu you can select the dosing phase, your chosen products will be listed below. You can add, remove or adjust the values as required

Also, you can **Remove Phase** to delete completely.

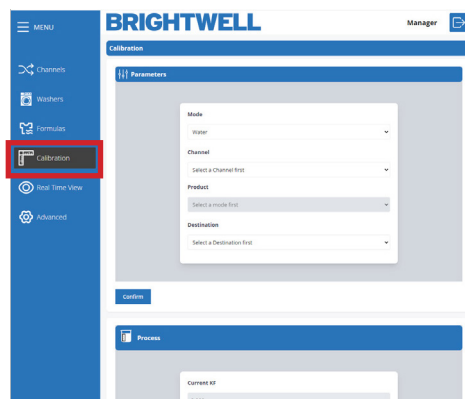
The screenshot shows the 'Phase # 1' configuration screen. It includes a 'Phase Number' field set to 1, a 'Phase Type' dropdown menu set to 'Bleach', and a 'Delay 1' field set to 0. Below these are several rows of product selection dropdowns, each with a value of 2.0000C. A red box highlights the 'Bleach' dropdown menu. Another red box highlights the 'Remove Phase' button at the bottom right.

RUNNING A CALIBRATION WITH THE CONFIGURATION TOOL

STEP 1

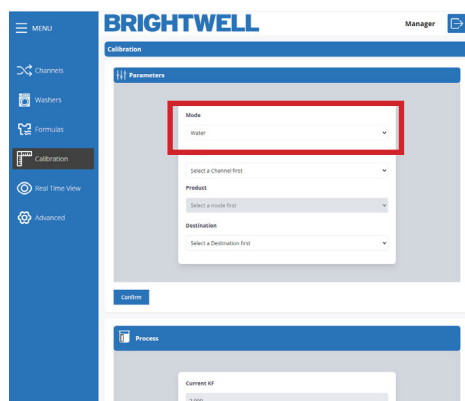
To run a calibration on your Multiplex unit press the **Calibration** icon in the side menu, located here.

Please note - You can **ONLY** run a calibration via the web server.



STEP 2

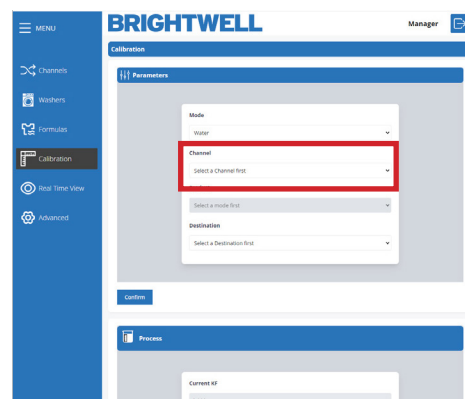
Before you run a calibration on your unit you will need to confirm the details on that channel. Initially you need to select the mode. This can be **Water** or **Product**.



STEP 3

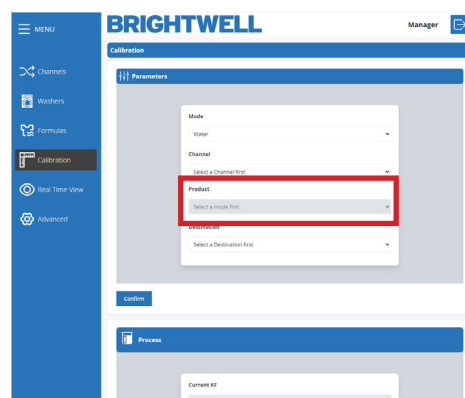
Now you need to select the channel you would like to calibrate to. If you have a measuring vase attached use that. If not, you can either use an empty output or remove the pipe of the current product output and catch using a measuring device.

Please follow all chemical safety if removing piping.



STEP 4

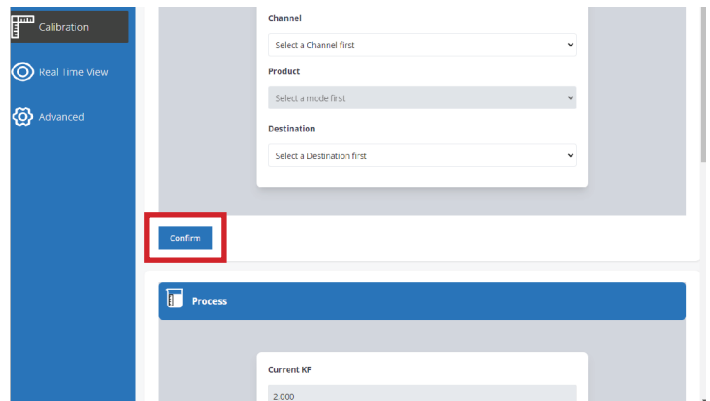
If you have selected Product, you can select that using the drop down.



RUNNING A CALIBRATION WITH THE CONFIGURATION TOOL

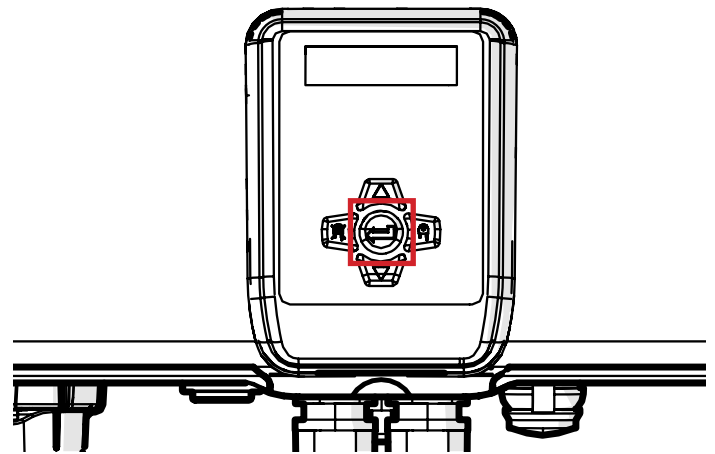
STEP 5

Once you have confirmed the settings press the **Confirm** button to begin the calibration. Please confirm you have a measuring vase or suitable vessel ready to capture the outflow for calibration.



STEP 6

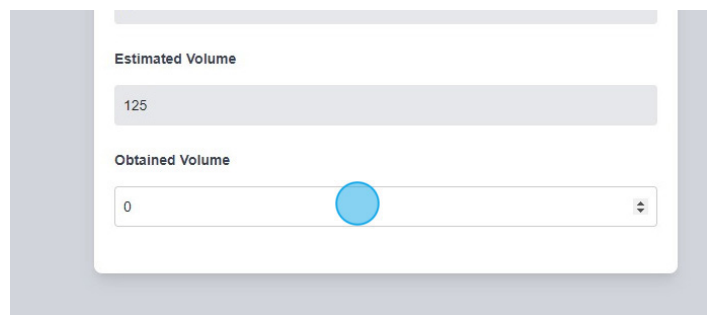
Now that the unit is ready for calibration go to your unit and **press and hold** the [Calibration](#) button on the unit and it will begin to [flush](#).



STEP 7

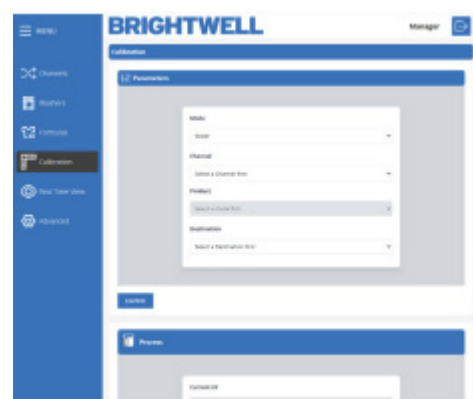
Once the calibration has run confirm the volume of liquid dispensed and enter the values in the **Obtained Volume** tab. Press the **Confirm** button to save these settings.

The unit will now automatically generate the new **Flow rate** and **Kf** for the unit. Setting these values in the relevant sections



STEP 8

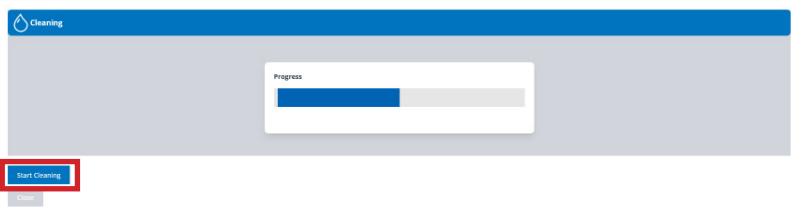
Once calibration is complete, confirm the volume of liquid dispensed and enter the values in the Volume Obtained tab. Press the Confirm button to save these settings.



RUNNING A CLEANING FLUSH

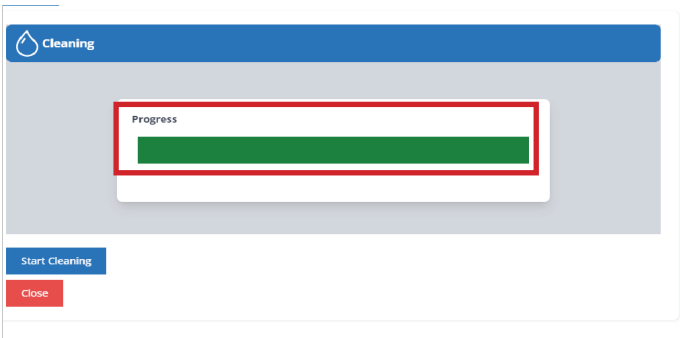
STEP 1

After completing a calibration with product, **YOU MUST** run a cleaning cycle to clear all chemical from the channel. This will automatically show once you have entered the **Obtained Value** into the box. Press the button to begin



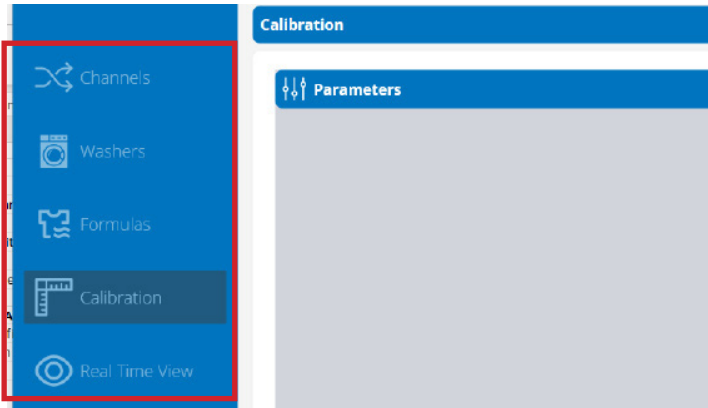
STEP 2

Once a cleaning cycle has completed the progress bar will turn green.



STEP 3

Please note - While you are running a cleaning cycle, you are unable to leave the screen and all navigation options will be disabled.




















REAL TIME VIEW

BRIGHTWELL

Manager

Real Time View

Number	KG	Formula Num.	Formula Name	Washer Customer	Phase Status	Finish	Pause
1	50.00	1	Bedsheets	0	       		
2	0.00	0		0	       		

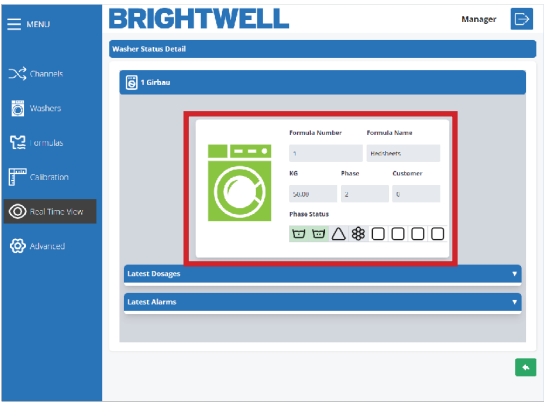
- 1 Number 1 is the machine real-time dashboard
- 2 Number 2 opens the more in depth machine information screen

REAL TIME VIEW

STEP 1

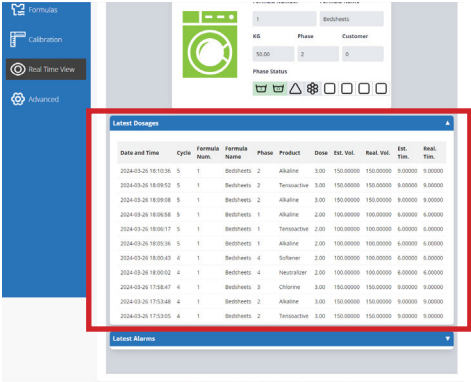
If you expand the view on a single machine you can view more in depth details about the status. The main screen will show:

- Formula Number
- Formula Name
- KG
- Phase
- Customer



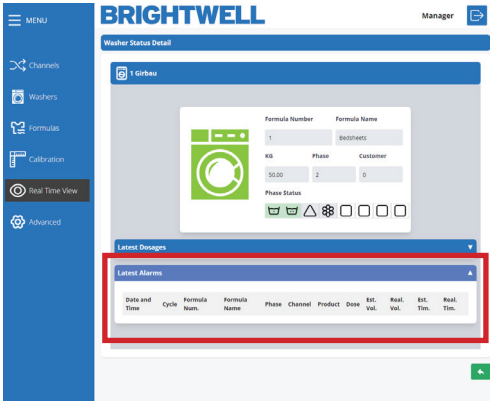
STEP 2

If you choose to expand the Latest Dosages tab it will display more detailed information along with time stamps.



STEP 3

You also have the ability to expand all the alarm information on the Brightwell page. Displaying any issues that the machine has encountered in the latest session.



ADVANCED SETTINGS

BRIGHTWELL Manager

Advanced

Connections

Network ID Password

MiRedWiFi1 Password

Parameters

Metric Units Language

Metric Not used

Save

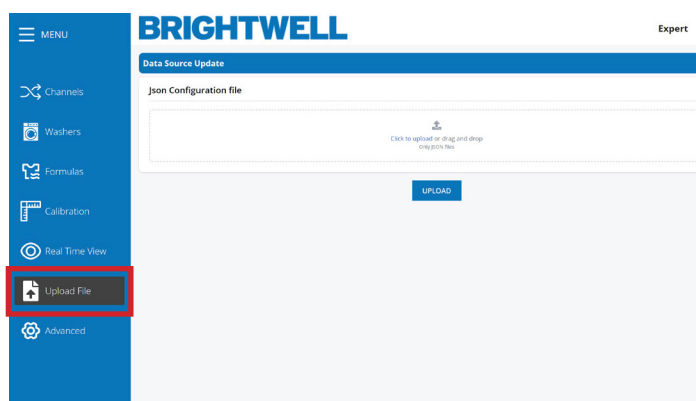
- 1** Number 1 allows you to edit the current Wifi settings. Using the drop down menu to change the Network ID and the textbox to adjust the password.
- 2** Number 2 are the Units and language settings for the unit. Allowing you to adjust based on your needs.
- 3** Number 3 is the Save icon. Use this to save any settings you have adjusted from the menu above.

UPLOADING JSON FILES FOR THE FIRST TIME

STEP 1

To upload JSON files to your unit via the configuration tool for the first time you need to download ALL JSON files from the Portal. Please refer to the **Data Transfer Saving a JSON file**.

To access the data transfer menu press the **Upload File** button.



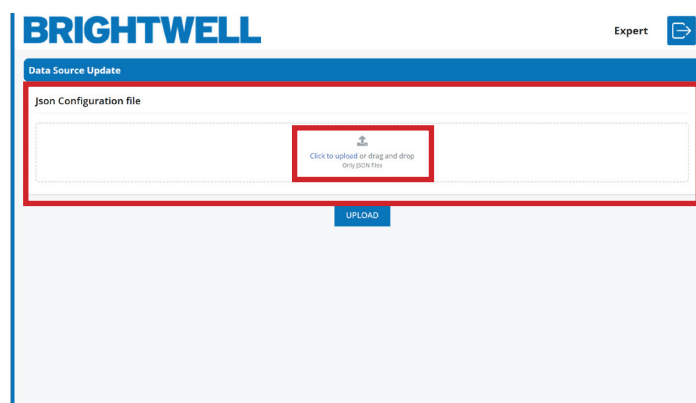
STEP 2

You will need to upload the files in the following order:

- User
- Site
- Channel
- Products
- Washers
- Formulas

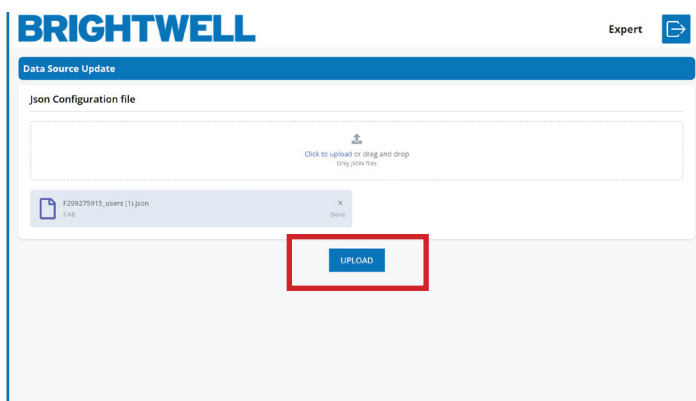
Take your JSON file * and drop it onto the upload box, or alternatively press the **Click to Upload** and select it from your machine.

* (These files are generated via the Portal. Please see the section - Data Transfer Saving a JSON file in the Portal manual)



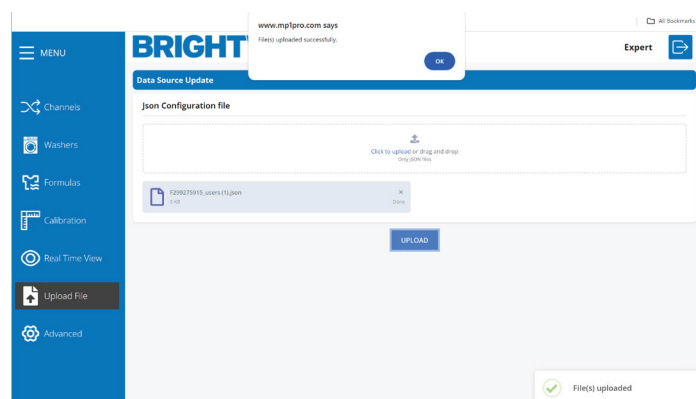
STEP 3

Press the Upload button to upload this to your unit.



STEP 4

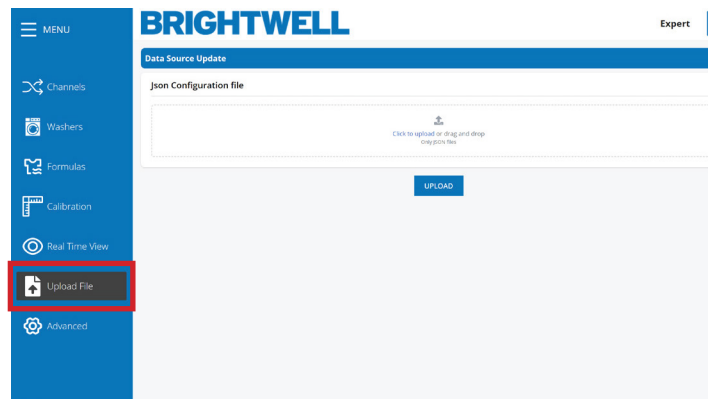
If this has been successful you will receive the following confirmation message.



MAKING CHANGES WITH A SINGLE JSON FILE

STEP 1

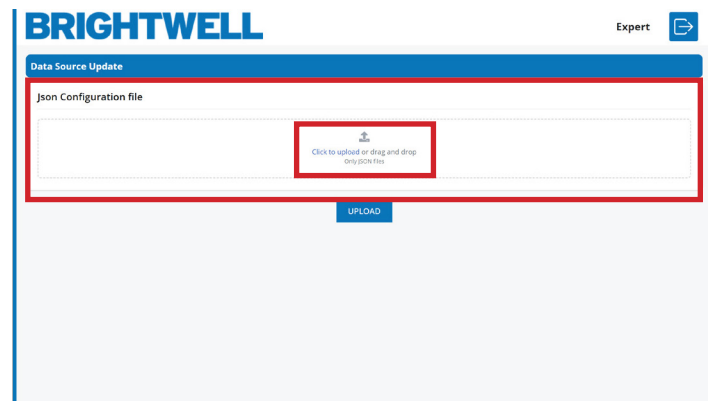
To access the data transfer menu press the **Upload File** button.



STEP 2

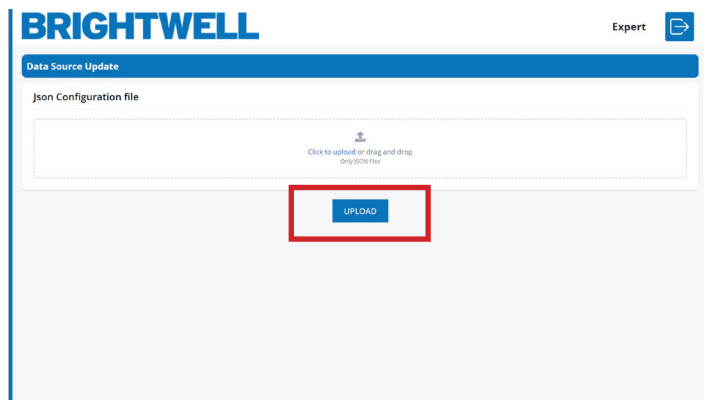
Take your individual JSON file * and drop it onto the upload box, or alternatively press the Click to Upload and select it from your machine

* (This is generated via the Portal. Please see the section - Data Transfer Saving a JSON file in the Portal manual)



STEP 3

Press the Upload button to upload this to your unit.



STEP 4

If this has been successful you will receive the following confirmation message.

