




















BigFarmNet Manager

User Manual



1	Operating Instructions	5
1.1	Login	5
1.2	User Interface	5
2	 Visualization	7
3	 Dashboard	8
4	 Survey	10
5	 Alarm	12
6	 Climate	15
6.1	Details	16
6.2	Reports	17
6.2.1	Predefined key values	18
7	 Batch Manager	19
7.1	In-between functions	21
7.2	 Production - Broiler	22
7.3	 Production - Breeders	24
7.3.1	Feed	25
7.4	 Production - Layers	26
7.5	 Manure drying	28
8	Day Programs	29
8.1	 Program Manager	29
8.1.1	Creating a New Day Program	29
8.1.1.1	Based on a program on the house controller	29
8.1.1.2	Based on a Standard Program	30
8.1.2	Import and export of day program	31
8.2	Editing Programs	33
8.2.1	Editing Curve Programs	34
8.2.2	Editing Day Programs	34
8.2.3	Standardreference	35
8.3	 Remote control	37
9	Analysis	38
9.1	 History	38
9.1.1	Comparison between locations and user-defined graphs	39
9.1.2	Adjusting the history view	40
9.2	Data Export	40
10	 WebExplorer	42
11	Support Tool log	44
12	 Remote Access	45
12.1	Allocation of Remote Access license	45
12.2	Operation log	46
12.3	Local access to house controller display via Remote Access	46
13	Setup functions	48
13.1	 Password	48
13.1.1	Creating and Changing Passwords	48

13.1.2	Forgotten Password	48
13.1.3	 User Administration	49
13.1.3.1	User groups	49
13.1.3.2	Create, adjust or delete.....	50
13.1.3.3	 Alarm Notification to Users	51
13.2	System preferences	51
13.2.1	Automatic update	52
13.2.2	Alarm for house controller monitoring	52
13.2.3	Start-up display	52
13.2.4	Key value layout.....	52
13.2.5	 Network Information.....	53
13.2.6	Backup settings.....	54

1 Operating Instructions

1.1 Login



Open BigFarmNet Manager.

The program starts up with the default language of the PC provided that it is available in BigFarmNet. If the default language is not available, BigFarmNet Manager will start up in English. See Create, adjust or delete [► 50] regarding the change of language.

BigFarmNet Manager has the following standard users without a password:

User: admin

User: guest

Enter user name and leave the **Password** field empty.

See the User Group [► 49] section concerning user types and rights.

When logging in for the first time, create a configuration or connect to an existing configuration, see Technical Manual for more details.



We recommend that you create an admin user password immediately after installing the program, as login grants access to all house controllers in the network.

See the Creating and Changing Passwords [► 48] section for details on how to change passwords.



1.2 User Interface



The tools (A) available for the location marked on the left side of the screen are displayed as icons at the top of the screen. Click on the drop-down icon (B) to select the different locations.

Switch between tools by clicking the icons for:

	Dashboard	User-defined display of key figures for production and climate.
	Visualization	Graphical view of locations with hotspots.
	Overview	Table list of key values.
	Alarm device	Table view of alarm inputs and outputs.
	History	Graphic view of key values history.
	Climate	View of climate key figures. Adjustment of climate settings
	Batch Manager	Batch data and in-between functions.
	Broiler	Displaying production key values
	Breeder	Displaying production key values
	Layer	Displaying production key values
	Manure drying	Display of key values for manure drying. Adjustment of settings for manure drying (layers only).

-  Remote control Editing day programs.
-  Alarm Alarm view and alarm log.

The icon **(C)** is used to return to the start-up view from all menus.

The icon **(D)** is used to show/hide the side panel.

The tool bar contains a number of menus **(E)** for the setup of BigFarmNet Manager, passwords, users, house controller programs and data management.

Files


Export...


Print Setup...


Print Preview...


Exit... Alt+F4


Functions


 Alarm Notification...


 Program Manager...


 Camera...


 Web Access...


 Remote Access...


 Network Information...

 Backup Settings...

 User Management...

 Change Password...


 Alarm Unit Configurator...


 Configurator...

Setup

Preferences...

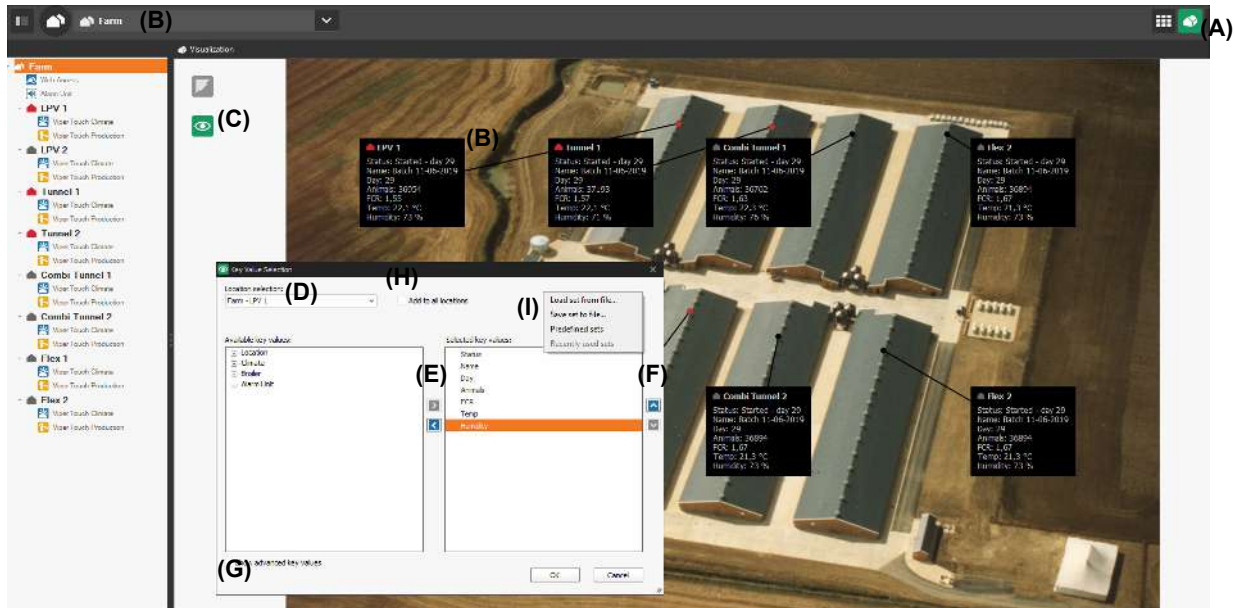
Help

 Help... F1

 About...

2 Visualization

Click the icon (A) to select Visualization.



In Visualization, a hotspot (B) can be added to each location showing selected key values (see Technical Manual for addition of new hotspots).

Key values can be selected at location level or for all locations at once.

Move hotspots in Visualization by clicking and dragging using the mouse cursor. The cursor must be located above the left side of the hotspot to be moved.

Click the key value icon (C) or right-click a hotspot to change which values are shown.

Select the location for (D) which key values are to be selected.

Select a key value and click on the right/left (E) arrow to switch between available/selected.

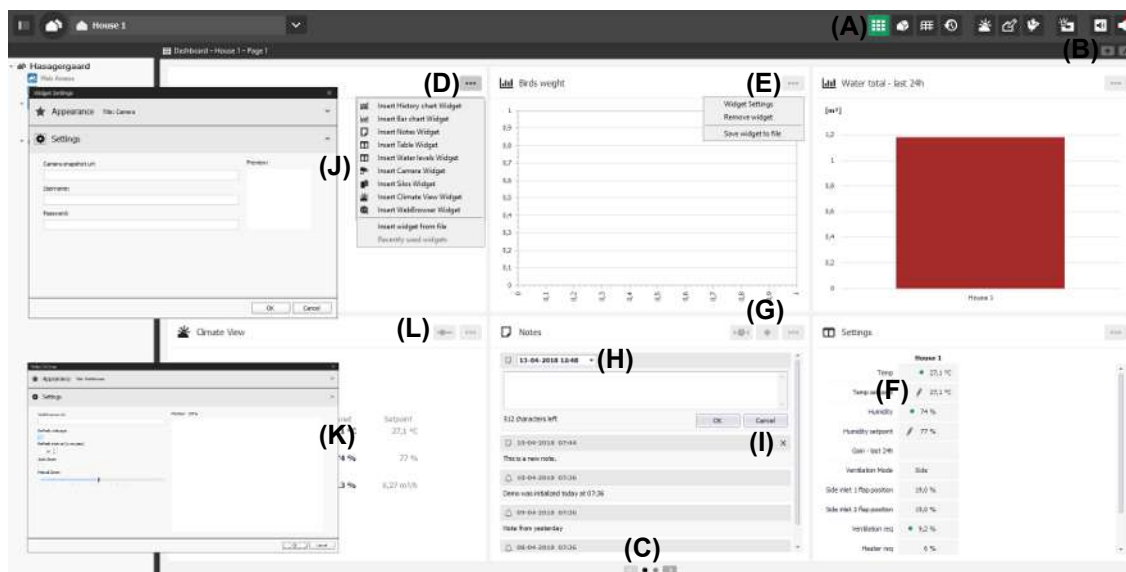
The order of the selected values can be changed using the up/down arrow (F).

To access additional key values, select **Show advanced values (G)**.

You must first select **Add to all locations (H)** to add one or more values to all locations at once.

The selected key values may be saved as a file on the computer. The saved key values may be inserted in the individual locations or all locations. The options are displayed by clicking on **Key value sets (I)**. See also the Pre-defined key values ► 18] section.

3 Dashboard



Click on the icon **(A)** to see the farm or house dashboard.

The dashboard may contain 2 pages. Click on the plus icon **(B)** to add a page to the dashboard. The entire dashboard can also be saved and inserted for a single location or for multiple locations. This can be used, e.g. to display the same dashboard on several computers. Click on the icon **(B)** to display the options.

You can change between pages **(C)** at the bottom of the screen.

Insert and edit widgets

Select an empty field, click on the icon **(D)** and browse the widgets that can be inserted.

Click on the settings icon **(E)** in a widget field to delete, change or save an individual widget. Widgets saved on the computer can be inserted into an empty field. The most recently saved widgets are displayed next to 'most recently used widgets'.

It is possible to change the colors, viewing periods and key values for the graph, bar chart and table. For widgets which show several locations (farm level or several sections) it is possible to select which locations data will be shown for.

It is possible to change set values and carry out registrations directly in the, e.g. table view.

Click on the icon **(F)** to enable editing.

Notes

Click on the icon **(G)** to write a new note.

Notes are saved with the date and time **(H)** and are available to all users.

Make a note with a time/date in the future. BigFarmNet will then generate a pop-up message of the time/date selected.

Notes can also be seen at the top of the history function.

Click on the icon **(I)** to delete a note.


Camera widget

Select the **Camera (J)** widget. Enter the URL, user name and password, where applicable, for the video stream to be displayed. The connection will be displayed in Preview.

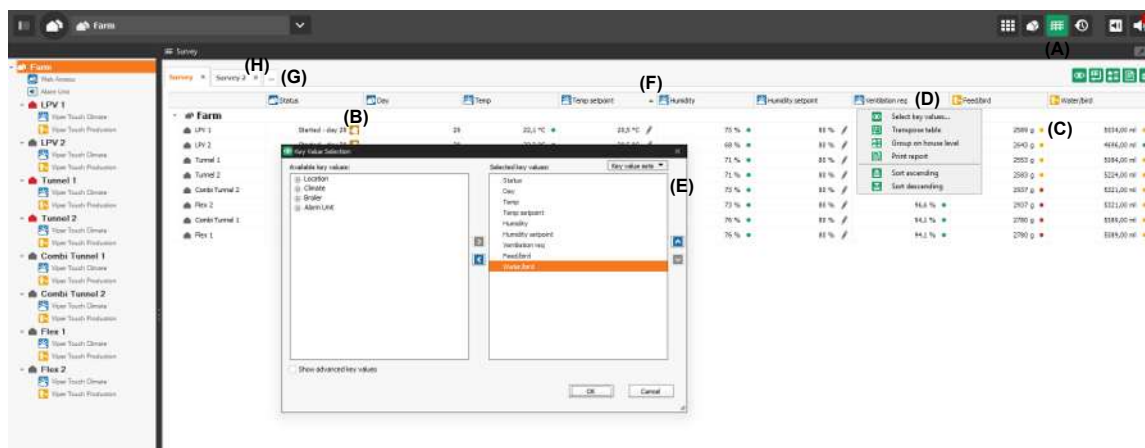
WebBrowser widget

Select the widget **WebBrowser (K)**. Enter the URL for the webpage to be displayed. Adjust settings for the update interval and zoom if necessary. The connection will be displayed in Preview.

Climate and Silo widget











Click the icon  (L) to adjust the settings.

4 Survey




Click on the icon **(A)** to see an overview of the farm's locations.


The current status of a location is displayed in the survey by clicking on the status icon **(B)**.


Icon	Status	Description
	Active	The location is Active. Regulation is carried out according to the current settings. After batch start, the day number adds one for each day.
		
		
	Active – other animals	
	In-between function – soaking	This location is Empty. The in-between function is running for a pre-set period of time.
	In-between function – disinfection	
	In-between function – washing	
	In-between function – drying	
	In-between function – washing	This location is Empty. Regulation is carried out according to the Empty house setting.
	No information	BigFarmNet Manager cannot retrieve data from the controller.

A colored field **(C)** next to the values shows the regulation status of the value in question. The colors correspond to the scale in the controller. If a key value is not accessible for a location, for example because no sensor has been installed, this will be indicated by means of an empty cell or three dashes.



To access and change the overview, right-click somewhere in the table or click the icons in the right side of the table **(D)**.

Use the survey **(E)** to select the key values  that are shared by all locations. Key values in the survey can be selected in the same way as those for visualization. Key values shared by all locations can be selected in the survey.

 Change the setup of the table so that the locations are indicated as column headings and not as row headings – or vice versa.

If the farm has several subsections, it can be an advantage to select the  **Group on House Level** view, where the sections in each house can be hidden.

 Print report. Sends the report in question to the printer.

  To be able to sort by column values, right-click or click a column heading.

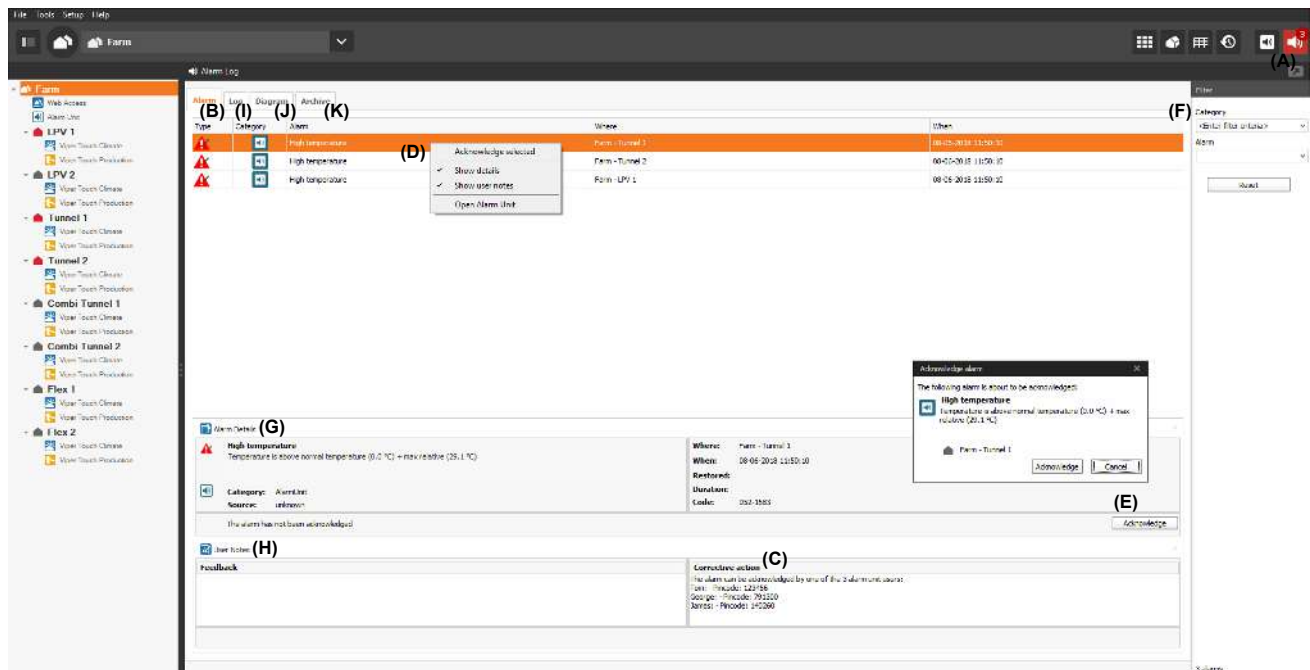
A small arrow **(F)** appears when sorting by column has been carried out.

To create a new survey, click the ... **(G)** tab. The setup of the new survey will be a copy of the current one.

To access and rename it, right-click or double-click the tab.

To remove a survey, click close (x) **(H)**.

5 Alarm



Click on the alarm icon **(A)** in the top right corner or on an alarm icon in the visualization or the overview.

Active non-acknowledged alarms appear as a flashing icon in the tree structure. They can also be viewed under the **Alarm** tab **(B)**.

The Normal and Admin user groups can acknowledge the alarms via BigFarmNet Manager **(C)**. Right click on the alarm in the alarm list **(D)** and select Acknowledge or click on Acknowledge in the detail window **(E)**. BigFarmNet Manager acknowledges the alarm and moves it from the **Alarm** tab to the **Log** tab, where it is possible to search for it.



Please note that alarms cannot be acknowledged via BigFarmNet Manager for house controllers that are connected via WebLink.

Therefore, alarms can only be acknowledged on 135Pro, 235Pro, Viper Touch.

If there are many alarms, it would be a good idea to filter them by category and maybe also by alarm type **(F)**.




Click **Reset** to remove a filter again.






Click the alarm or click **(G) Alarm details** for further information about alarm type, etc.

Two types of notes can be added to each alarm: **Feedback (H)** and **Corrective action (E)** for noting further information about the alarm.

Alarms are indicated by icons in all the overviews. The various icons indicate the current status of the alarm situation.

Icon	Status	Description
	Active alarm	There is an active non-acknowledged alarm. The alarm situation is still present.
	Inactive alarm	The alarm has not been acknowledged. The alarm situation no longer exists.
	Acknowledged alarm	The alarm has been acknowledged. The alarm has been disabled. The alarm situation still exists.
	Alarm ended	The alarm has been acknowledged. The alarm has been disabled. The alarm situation no longer exists.






Icon	Status	Description
	Active warning	There is an active warning. A warning does not require acknowledgement. The situation still exists.
	Warning ended	The situation no longer exists.
	Info	Information about an event which has occurred.

Icon	Category	Alarm/Warning in connection with
	Climate	Climate (temperature, humidity, etc.)
	Production	Production
	KIK	Reporting program for broiler production
	Tuppen	Reporting program for broiler production
	KLF	Reporting program for broiler production
	Alarm	Alarm unit
	System	House controllers hardware and software
	Management	Network

The tab **Log (I)**


The alarm log contains all alarms, specifying how long an alarm was active.

All alarms are shown for the past 14 days by default. Enter one or more search criteria and click the required date interval:

-  The past 24 hours.
-  The past week.
-  The past two weeks.
-  A specific date interval.
-  Entire batch.

It is also possible to make a free text search in the **User notes** field.

Other relevant data can also be included when analysing an alarm situation. In case of a climate-related alarm, additional information can be retrieved from the climate function.

1. Select location.
2. Click on the icon for climate  On a location
3. Check if the climate settings are correct.
4. Check the climate sequence for the most recent 24 hours using the curve view

Delete old alarms.

In principle, the alarm log can contain an infinite number of alarms.

To access and delete old alarms, click on **Delete**.

Diagram tab (J)

In the **Diagram** tab, it is possible to display alarms in different graphic designs.

Select the required diagram type:

- Time
- Location
- Category

Enter search criteria and select date interval.

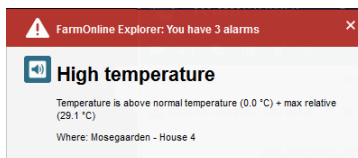
Zoom by clicking the diagram and scrolling or using the zoom tools.

Make sure that the zoom level does not hide any alarms.

Archive tab (K)

The archive contains non-active, acknowledged alarms, which are older than a set number of days.

Daily management of alarm



BigFarmNet Manager indicates alarm status in the overview displays (**Visualization** and **Overview**). The alarm is also displayed on the screen as a pop-up message.

Click on the pop-up message to open the alarm window.

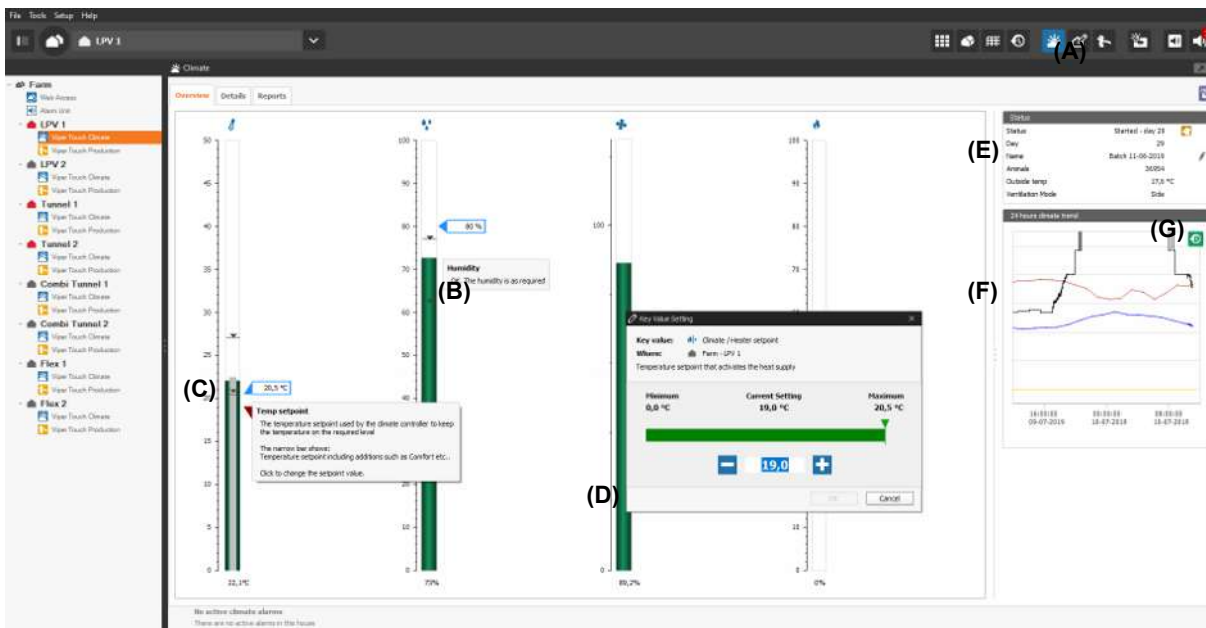
To see details, click an alarm in the list.

The alarm can be moved to the desired position in the window by clicking and dragging it.

In the menu **Setup/ Preferences** Notifications pop-up select whether the pop-up should be displayed even when BigFarmNet Manager is not open.

The computer must be restarted before a change to this setting becomes effective.

6 Climate



Click on the climate icon **(A)**.

BigFarmNet Manager displays an illustration with columns indicating the current status for temperature, humidity, ventilation, heating requirement and CO2 level.

Arrows show the minimum and maximum values of the day. Move the cursor over an arrow **(B)** to view the actual values in a screen tip.



Move the cursor over the Set temperature field to view a grey column in the temperature column **(C)**. The grey column shows a corrective setting of e.g. the comfort temperature.




The values set are shown in a field to the right of the column **(D)**. Click the value to access and change it.

The info window shows the house type and individual key parameters of the location **(E)**.

The graph to the right shows the climate trend during the last 24 hours **(F)**.

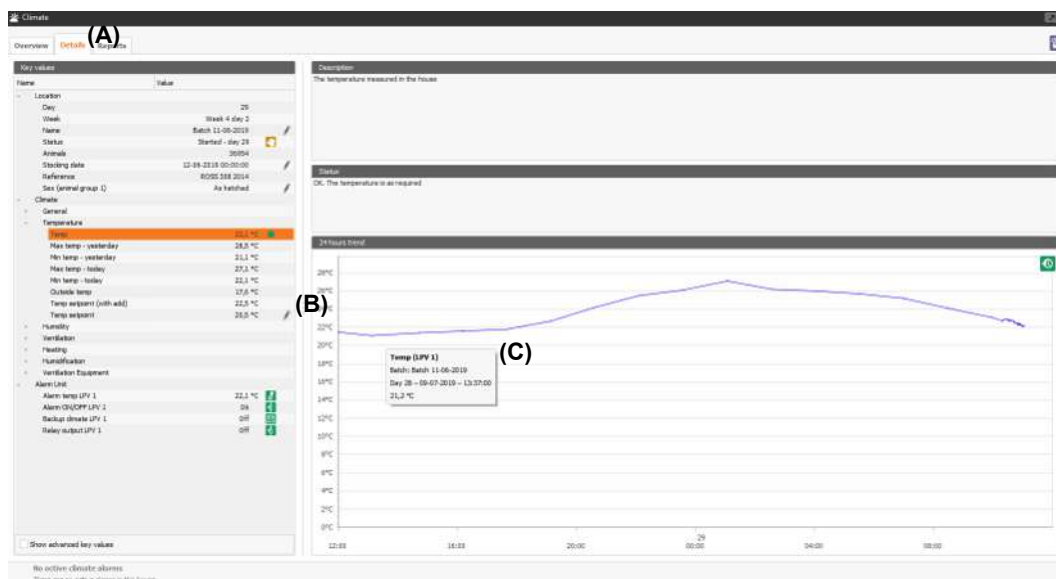
Double-click on a curve or click the history icon **(G)** to open the associated history view.

Icon	Color scale	Description
	Dark red	Temperature is too high. Alarm for absolute high temperature.
	Red	Temperature is too high.
	Yellow	Cooling is active.
	Dark green	The set temperature has been increased by an addition for comfort or extra ventilation due to a high ventilation level.
	Green	Inside temperature is within the required range between the temperature setpoint and heating setpoint.
	Light blue	Temperature is too low. Heating is active.
	Blue	Temperature is too low. Alarm for low temperature.
	Red	Humidity is too high. Alarm for absolute high humidity.
	Yellow	Humidity is too high. The air humidity is above the required level.
	Green	Air humidity is within the required range between the humidity setpoint and humidification setpoint.
	Blue	Humidity is too low. Humidification is active.
	Grey	Absolute low humidity. Typical term for sensor error.

Icon	Color scale	Description
	Dark green	Comfort or Extra ventilation is active.
	Green	Ventilation is within the required range.
	Blue	Minimum ventilation is operating.
	Not divided according to a scale	
	Red	CO2 is too high. Alarm for too high CO2.
	Yellow	Ventilation is above minimum ventilation.
	Green	CO2 level is within the required range.

6.1 Details

Click on the **Details** tab (A).



The displayed parameters depend on the installation and functionality of the climate or production controller used. Functions that cannot be accessed in the selected climate or production controller are not displayed.

For a description of the functionality, see the documentation for the controller.

Set values are shown with an editing icon (B) to the right of the value. Click the icon to access and change it.

When a value is highlighted in the list on the left, a corresponding graph is displayed in the bottom right field. Hold the cursor over the graph to view the value for the individual points (C).

6.2 Reports

The **Reports** tab (A) shows selected key values.

The screenshot displays the 'Reports' tab in the BigFarmNet Manager. The main window shows a table of key values for different batches. A 'Key Value Selection' dialog box (C) is open, showing a list of available key values and a 'Selected key values' list. A 'Print' dialog box (I) is also open, showing options for printing the report. The right sidebar contains settings for the report, including 'Data Interval' (F), 'Details' (G), and 'Print/Export' (H).

Click on the key value icon (B) to access which key values should be included in the report (C). The key values are displayed as both tables and graphs.

Right-click on the column headings (D) for print and data export options.

History intervals

Select the relevant batch (E).

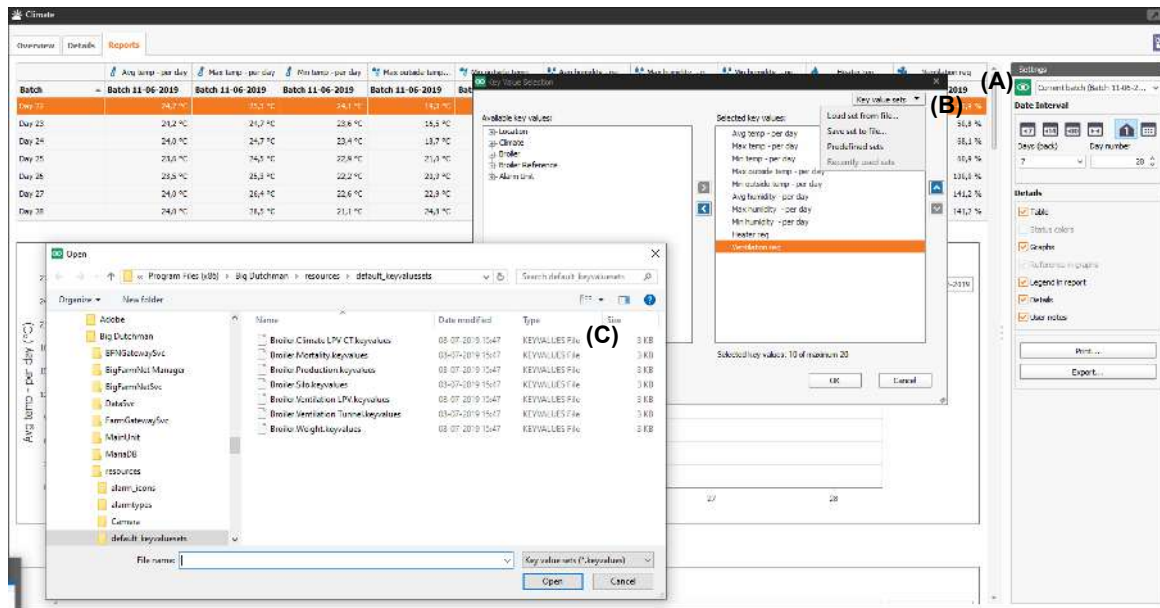
(F) Select the number of days to be displayed and the day number the display should start with by using the symbols for 7, 14, 30 or all days, or via the drop-down menu.

Select whether to display status colors in the table, values as graphs, reference values, and whether to add a brief explanation to the selected key values in the report (G).

The reports can be printed and exported (H) in a number of file formats and the files can be directly placed into e-mails as attachments (I).

6.2.1 Predefined key values

When installing BigFarmNet Manager version 4.2 or higher, a number of key value sets with predefined key values are also installed.



Click the key value icon (A) to be able to select key values. Press the arrow next to **Key value sets** (B) and choose between the options **Load set from file**, **Save set to file**, **Predefined sets** and **Recently used sets**.

When selecting **Predefined sets**, a number of key value sets appear (C), these are defined by Big Dutchman.

You can also choose to save your own key value set or to load an already saved set.

7 Batch Manager

The house controller automatically creates a new batch at batch end. The new batch then starts.

The in-between functions are active at the start of a batch. See also the section In-between functions [▶ 21].

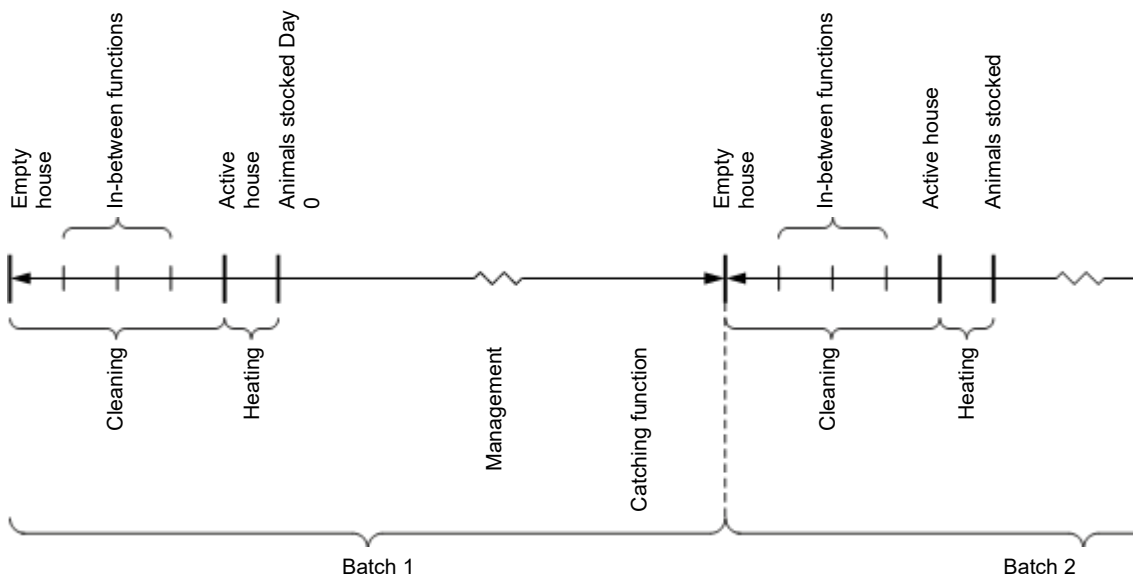
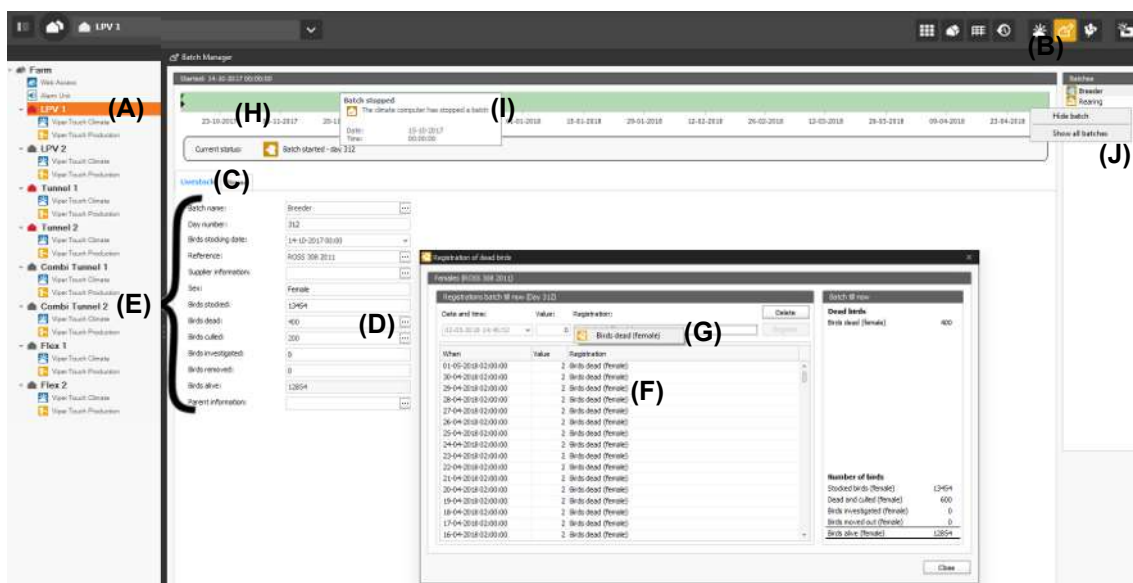


Figure 1: Overview of batch course.

Select a location **(A)** and click the icon **(B)** to open the function **Batch management**. Select the **Livestock** tab **(C)** for access to indicate batch data.



Data may be entered for the following **(E)**:

- | | |
|-----------------------|---|
| Batch name | Indicate a batch name so that the batch can be recognized again – e.g. in the history. |
| Day no. | Displays the current day number of the batch. |
| Animals stocking date | This is filled out automatically with the date for Day 0 when the batch is created. Time of stocking can be changed in BigFarmNet Manager without influencing the house controller. |

Number of animals	The current number of animals. The number is automatically adjusted according to the numbers entered
Reference	Enter the reference for the batch.
Supplier information	Enter contact information for suppliers.
Gender	Enter animal type (female, male, as hatched).
Number at batch start	Enter the number of birds that were stocked in the house at batch start.
Dead animals	Registration and summary of the number of dead animals.
Culled animals	Registration and summary of number of culled animals.
Poultry removed	Summary of the number of animals that have been removed from the house since batch start.
Animals alive	The current number of animals. The number is automatically adjusted according to the numbers entered.
Breeder information	Enter the reference for the breeders.

Click on the dots outside the desired field to open registration. Enter a value

Click the field **Register (G)** and select a reason for recording in the drop-down menu.

As an option you can select the time (in this way registrations for the past can also be made).

Click on **Register**.

These recordings are added and are included in the total calculation of the current number of animals in the house.

It is possible to delete a registration by marking it in the list **(F)** and clicking on **Delete**.

The date line **(H)** provides an overview of the chronology of the events relating to the batch since batch start, showing:

- batch start
- in-between functions
- stocking of animals
- removal of animals

Right-click the date line to see day numbers rather than dates.

Screen tips **(I)** indicate event and time.

The data and chronology of events for previous batches at the location can be seen by selecting a batch from the list on the right-hand side of the window. Only data for the current batch can be changed.

If previous batches or batches created by error are required to be removed from the list, they can be hidden by right-clicking **(J)** and selecting **Hide batch**.

7.1 In-between functions

The in-between functions are designed partly to facilitate the cleaning activities when the house is depopulated in-between batches, and partly to ensure the air change and temperature in the empty house.

The in-between functions are placed at the start of the batch course. See also the *Overview of batch functions* figure.

Select the **House (A)** subtab to set in-between functions for the current batch. In-between functions for the following house controllers can be activated via BigFarmNet Manager:

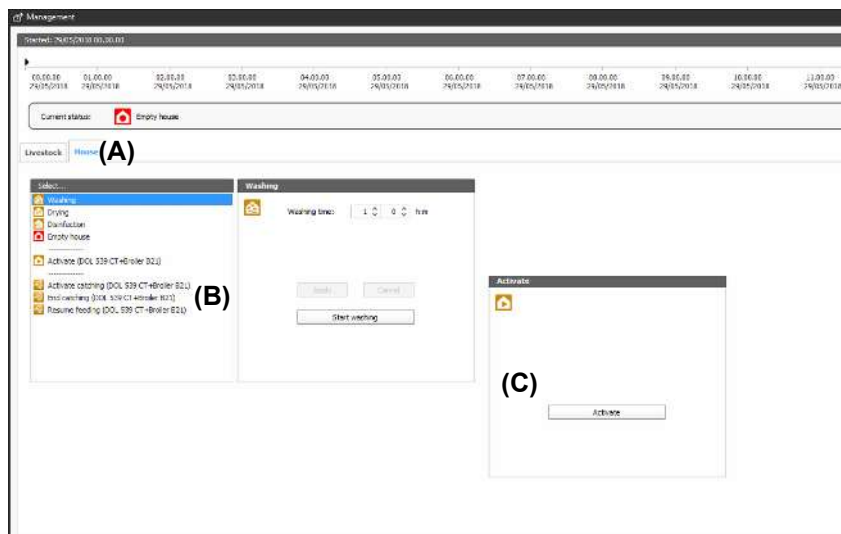
Viper Touch, 235Pro, 135Pro.

In-between functions can only be activated when the batch status is **Empty house**.

Setup options depend on the functionality of the house controller used.

Functions that cannot be accessed in the house controller selected appear greyed out.

For a description of in-between functions, see the documentation for the house controller.



The catching function **(B)** is designed to alter the air change in the house in connection with all or some of the animals leaving the house. The function also modifies the feeding program, light control and alarms.

The catching function can be activated and deactivated via BigFarmNet Manager, but only during the period which has been set on the house controller for catching.

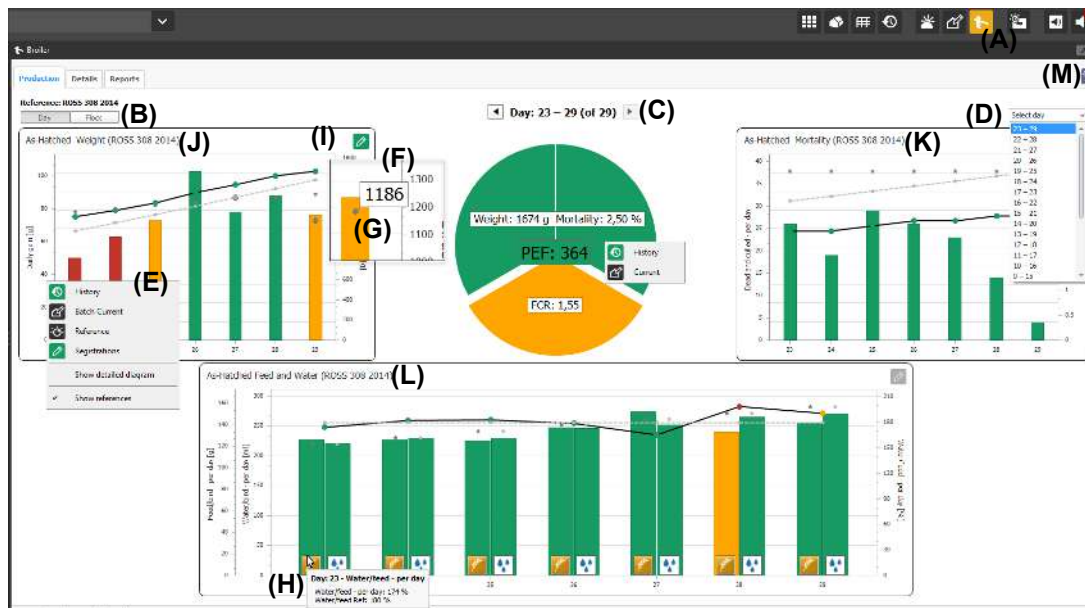
It is also possible to perform a forced restart of the feeding system, which stops before the catching function is activated.

See the documentation for the house controller for a description of the catching function.

Some house controllers can be activated **(C)** via BigFarmNet Manager.

7.2 Production - Broiler

BigFarmNet Manager displays the most important production key figures in a graphic overview.



Click on the icon (A) to select the **Production** function.

Click (B) to change between daily history and batch history view.

- **Daily history:** Day by day history for the current batch.
- **Batch history:** The history for this and the previous batches at the day number indicated.

Click on (C) to move one day forward or back.

The list (D) is a shortcut for selecting a time, that is a long way from the current one.

The circular chart shows the key figures for the birds' weight, mortality and FCR (Feed Conversion Ratio).

$$\text{FCR} = \frac{\text{Consumed feed}}{\text{Growth}}$$

The so-called PEF (Production Efficiency Factor), which is the overall expression of production efficiency, is also indicated.

The higher the PEF value, the better the productivity.

PEF is calculated based on:

$$\frac{\text{Weight (kg)} \times (100 - \text{mortality (\%)})}{\text{Age (days)} \times \text{FCR}}$$

Right-click the diagram to access history or batch management.

Right-click (E) a graph to access the associated history, management, reference or registration.

Double-click on a diagram to display it in a larger size (F), and click on it again to close the standard display.

The large numbers show the current values and the small numbers show reference values.

Control weighings can be registered manually. Control weighing is shown in the diagram with a plus icon (G) together with the registered value.

Hold the cursor over a column or graph to view the exact values shown as a screen tip **(H)**.

The colors used in the graphics have the following meaning:

Green: Normal

Yellow: Observe

Red: Critical

See also Graphic colors for status indication [► 36].

Click the editing symbol **(I)** to carry out manual registration.

If the icon is in grayed out it means that the function is not installed in the house controller or data cannot be changed manually.

Registration can also be carried out on earlier days for the entire batch.

It is possible to register:

- Manual weighing (without weigher in the house) and control weighing (with automatic weigher in the house)
- Dead and culled (with cause)
- Feed

It is possible to delete a registration by marking it in the list and clicking **Delete**.

The following key figures can be seen in the graphic illustration:

- **Weight (J)**
 - Daily gain (column)
 - Poultry weight (graph)
- **Mortality (K)**
 - Dead and culled (column)
 - Mortality (graph)
- **Water and feed (L)**
 - Feed per bird for the last seven days (column 1)
 - Water per bird for the last seven days (column 2)
 - Water/feed relationship (graph)

Click on the icon **(M)** to access remote control for the production module. This function is also used for editing a day program directly at a specific location. See also Remote control [► 37].

See also the Details [► 16] (Details) section about the **Details** tab, and the Reports [► 17] (Reports) section about the **Reports** tab.

7.3 Production - Breeders

BigFarmNet Manager displays the most important production key values in a graphic overview.



Click on the icon **(A)** to select the **Production** function.

Click on **(B)** to change between daily history and week history view.

Click on **(C)** to move one week forward or back or forwards or backwards..

The list **(D)** is a shortcut for selecting a week interval that is a long way from the current one.

Right-click **(E)** a graph to access the associated history, management, reference or registration.

Double-click on a diagram to display it in a larger size (**F**), and click on it again to close the standard display.

The large numbers show the current values and the small numbers show reference values.

In houses where the animals are weighed with an automatic weigher, the results of control weighing can be recorded manually. Control weighing is shown in the diagram with a plus icon (**G**) together with the registered value.

Hold the cursor over a column or graph to view the exact values shown as a screen tip **(H)**.

The colors used in the graphics have the following meaning:

Green: Normal

Yellow: Observe

Red: Critical

See also Graphic colors for status indication [► 36].

Click the editing symbol (I) to carry out manual registration.

If the icon is in grayed out it means that the function is not installed in the house controller or data cannot be changed manually.

Registration can also be carried out on earlier days for the entire batch.

It is possible to register **(J)**:

- Eggs (manual, system and floor)
- Manual weighing (without weigher in the house) and

- control weighing (with automatic weigher in the house)
- Feed
- Dead and culled (with cause)

It is possible to delete a registration by marking it in the list and clicking **Delete**.

The following key values can be seen in the graphic illustration:

- **Eggs**
 - Eggs/animal - per day/week (column)
 - Eggs/animal (graph)
- **Weight females/males**
- **Feed and water – females/males**
 - Feed/animal – per day/week (column)
 - Water/animal - per day/week (column)
 - Water/feed relationship (graph)

The recorded water consumption is the joint consumption for females and males.

Click on the icon **(K)** to access remote control for the production module. This function is also used for editing a day program directly at a specific location. See also Remote control [► 37].

7.3.1 Feed

The **Feed** tab **(A)** shows status and possible settings for the feeding system as a table.

The screenshot shows the 'Feed' tab (A) in the BigFarmNet Manager. The main area (B) displays a table with the following data:

Dest	Animal Type	Feed Type	Daily Target	State	Current Target	Amount
1	Male	Feed A	300.0 kg	Stopped	300.0 kg	0.0 kg
2	Female	Feed/Mix 1	250.0 kg	Stopped	250.0 kg	0.0 kg
3	Female	Feed/Mix 1	250.0 kg	Stopped	250.0 kg	0.0 kg
4	Female	Feed/Mix 1	250.0 kg	Stopped	250.0 kg	0.0 kg
5	Female	Feed/Mix 1	250.0 kg	Stopped	250.0 kg	0.0 kg
6	Male	Feed A	300.0 kg	Stopped	300.0 kg	0.0 kg

Below the table is a 'Manual filling' dialog box (E) with a table for manual filling amounts:

Dest	Animal Type	Feed Type	Manual filling kg
1	Male	Feed A	300.0
2	Female	Feed/Mix 1	250.0
3	Female	Feed/Mix 1	250.0
4	Female	Feed/Mix 1	250.0
5	Female	Feed/Mix 1	250.0
6	Male	Feed A	300.0

At the bottom, there is a 'Feed state: not running' indicator (D) and a 'Feed week program' table (E) showing the feed schedule for the week.

It is possible to change the feed type and amount of feed for the current day under **Destinations (B)**.

Click the editing icon **(C)** next to the destination to be changed.

It is possible to use manual filling for all destinations.

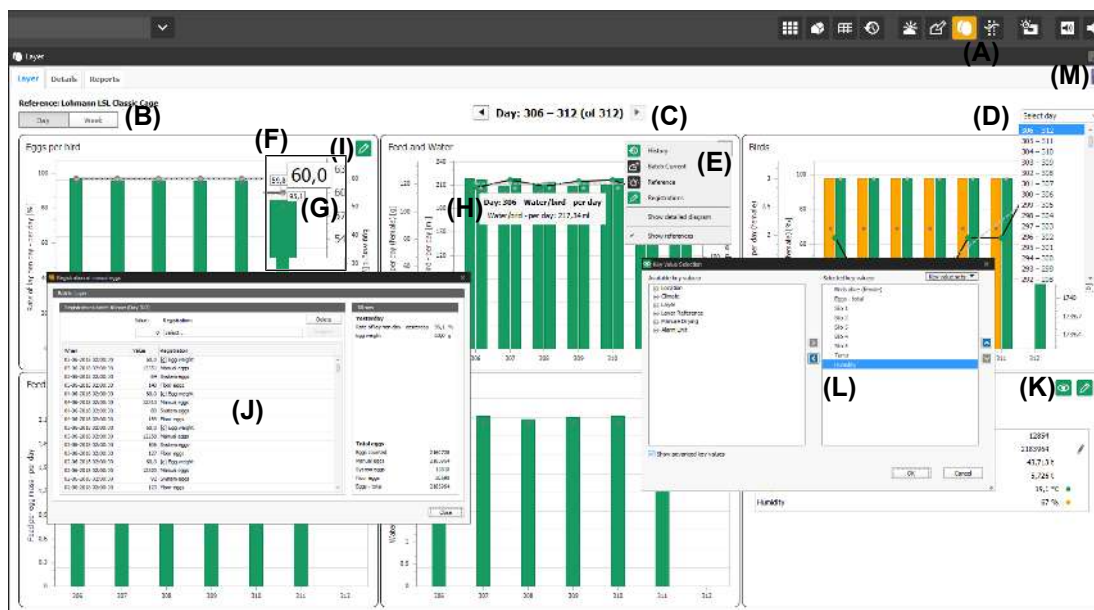
Enter the desired amount for each destination and click on **Start filling (D)** (the button is not active if the house controller is busy feeding).

The automatic feed program can be overridden on a given day **(E)**.

See also the Details [► 16] (Details) section about the **Details** tab, and the Reports [► 17] (Reports) section about the **Reports** tab.

7.4 Production - Layers

BigFarmNet Manager displays the most important production key figures in a graphic overview.



Click on the icon **(A)** to select the **Production** function.

Click on **(B)** to change between daily history and week history view.

Click on **(C)** to change forward or back between week intervals and days.

The list **(D)** is a shortcut for selecting a week interval that is a long way from the current one.

Right-click **(E)** a graph to access the associated history, management, reference or registration.

Double-click on a diagram to display it in a larger size **(F)**, and click on it again to close the standard display.

The large numbers show the current values and the small numbers show reference values.

In houses where the animals are weighed with an automatic weigher, the results of control weighing can be recorded manually. Control weighing is shown in the diagram with a plus icon **(G)** together with the registered value.

Hold the cursor over a column or graph to view the exact values shown as a screen tip **(H)**.

The colors used in the graphics have the following meaning:

Green: Normal

Yellow: Observe

Red: Critical

See also Graphic colors for status indication [► 36].

Click the editing symbol **(I)** to carry out manual registration.

If the icon is in grayed out it means that the function is not installed in the house controller or data cannot be changed manually.

Registration can also be carried out on earlier days for the entire batch.

It is possible to register **(J)**:

- Eggs (manual, system and floor)
- Manual weighing (without weigher in the house) and
- control weighing (with automatic weigher in the house)

- Feed
- Dead and culled (with cause)

It is possible to delete a registration by marking it in the list and clicking **Delete**.

The following key figures can be seen in the graphic illustration:

- **Eggs per animal**
 - Number of 'lay-hen days' – per day in percent
 - Average weight of eggs
- **Feed and Water**
 - Feed/animal per day
 - Water/animal per day
 - Water/Feed per day
- **Weight females**
 - Dead and culled per day (females)
 - Liveability
 - Weight of poultry:
- **Feed and water per egg mass**
 - Feed per egg mass per day/week
 - Water per egg mass per day/week

The recorded water and feed consumption is the joint consumption for females and males.

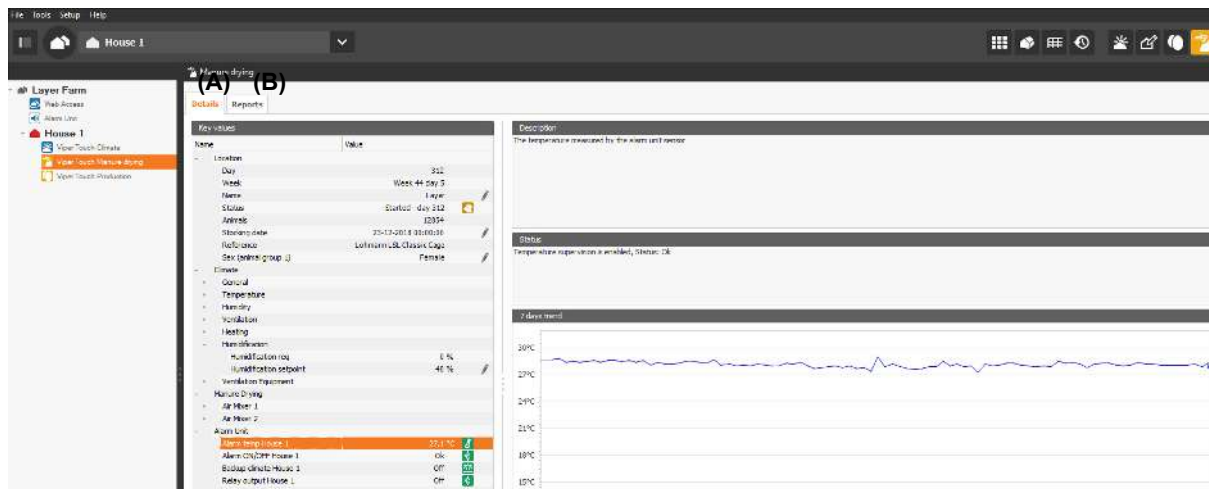
Click the icon **(K)** to select key values **(L)** for viewing in the overview on the bottom right. See also the Predefined key values [► 18] section.

Click on the icon **(M)** to access remote control for the production module. This function is also used for editing a day program directly at a specific location. See also Remote control [► 37].

See also the Details [► 16] (Details) section about the **Details** tab, and the Reports [► 17] (Reports) section about the **Reports** tab.

7.5 Manure drying

Manure drying is a module for monitoring and collecting data from a house controller with the manure drying feature and for adjusting the settings.



Click the icon **(A)** to select the function **Manure drying**.

The function has two tabs: **Details (B)** and **Reports (C)**. See the section Details [▶ 16] for general information about the tab **Details** and the section Reports [▶ 17] for general information about the tab **Reports**.

8 Day Programs

For houses with batch production, the house controller can regulate the conditions according to a curve sequence, which allows it to adapt the conditions in the house to the changing needs of the animals on an on-going basis.

With BigFarmNet Manager, such curve sequences can be created as standard programs using the **Program Manager** or they can be adjusted on individual house controllers using the **Remote Control**.

Setup options regarding the individual programs depend on the functionality of the house controller used. Functions that cannot be accessed in the selected house controller appear grayed out.

For a description of the climate functionality, see the documentation for the house controller.

8.1 Program Manager

The Program Manager can create and edit standard day programs for climate, production and references for different types of house controllers.

The graphic display makes it easy to edit day programs, which can be changed and installed on all the required house controllers at once.

The Program Manager makes it easy to ensure that the same settings are used on the entire farm/ several farms and that the required climate and production strategies are followed.

Select **Program Manager** in the menu **Tools** to create new climate and production day programs and use reference curves.

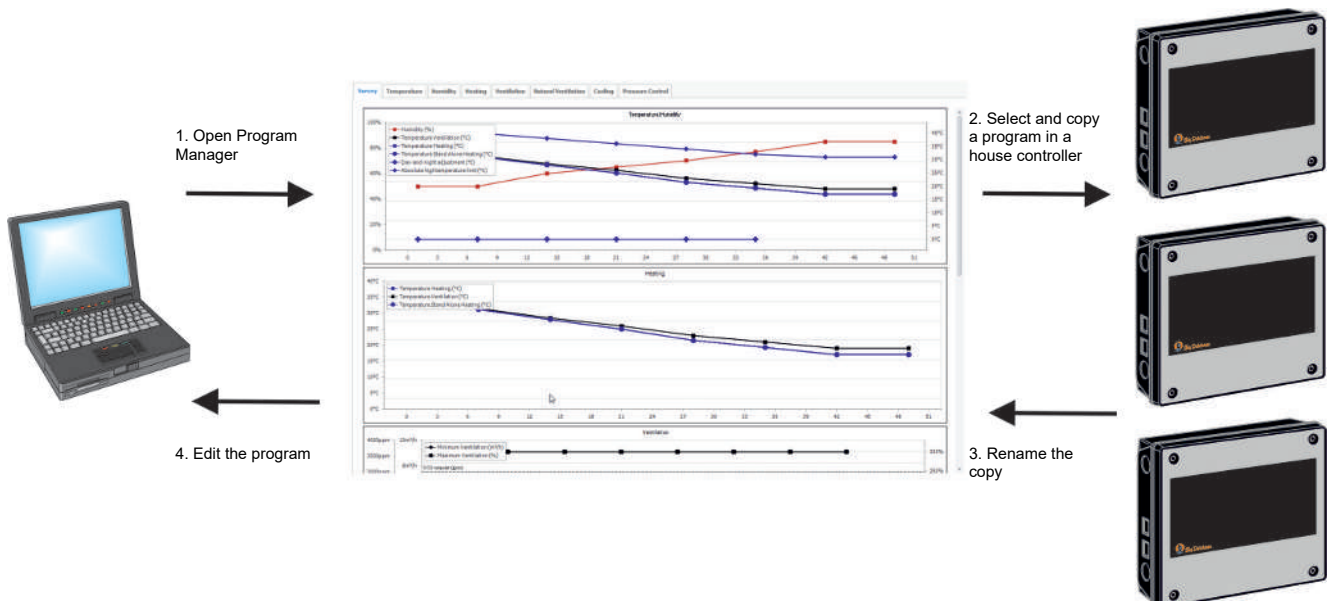
BigFarmNet Manager shows the programs that are used by all the house computers in the network.

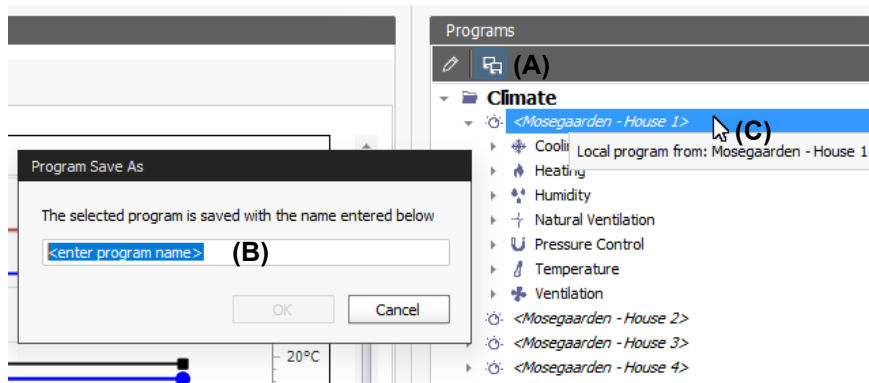
The program or reference can be copied and named in BigFarmNet Manager. It can then be edited and installed on one or more house controllers.

8.1.1 Creating a New Day Program

A new program can be created either by using one of the standard programs available in BigFarmNet Manager or by copying a program used by a house computer.

8.1.1.1 Based on a program on the house controller





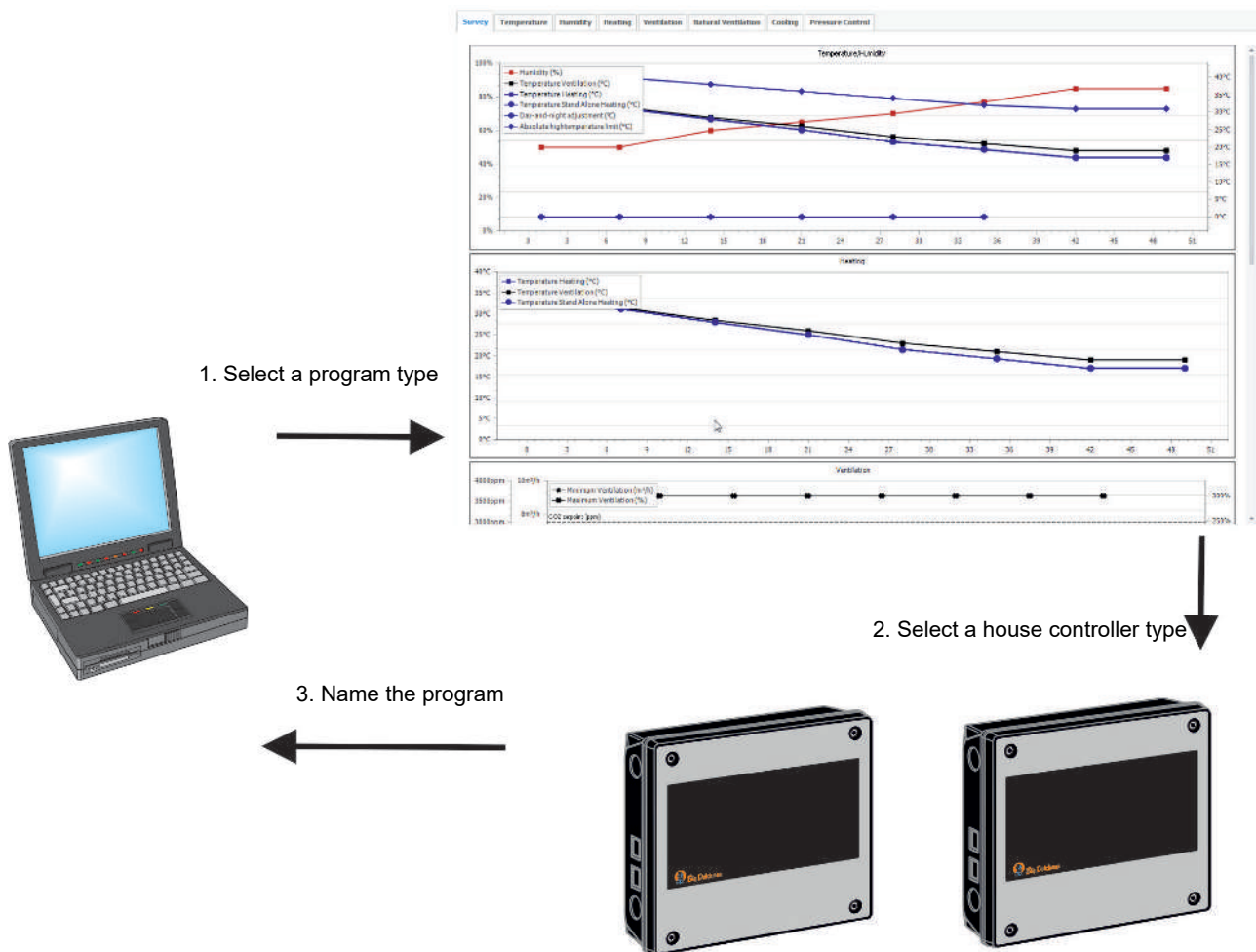
To create a copy of an existing program, select the program in the list and click on the copy icon (A).

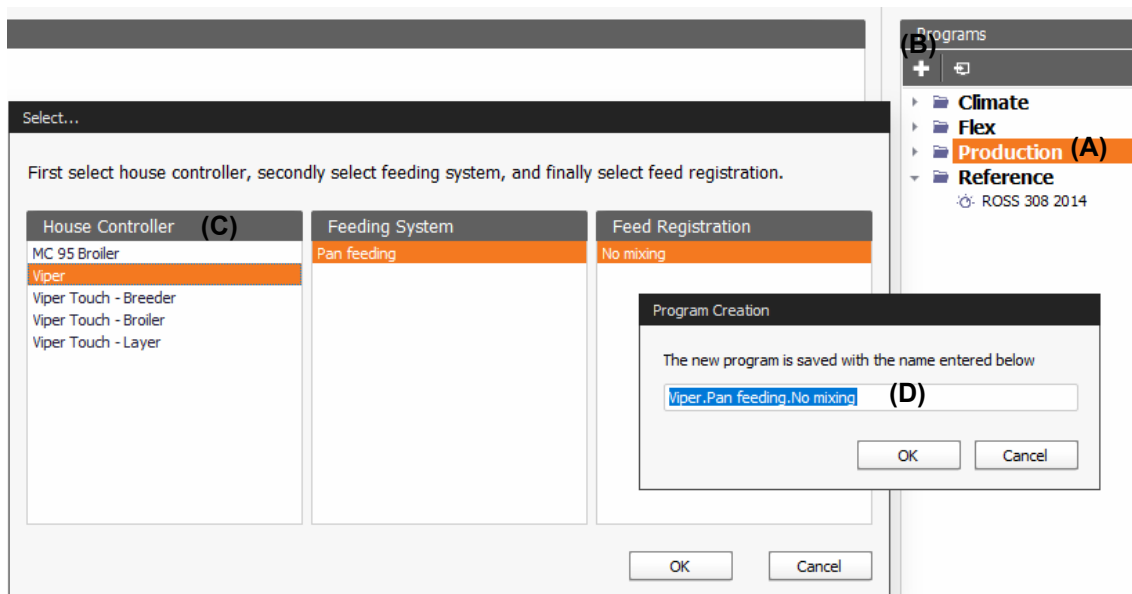
Name the program (B).

The program is created in BigFarmNet Manager and can be seen in the list. It is then possible to edit and install it on all house controllers of the type selected.

A screen tip indicates whether the program has been installed on a house controller and at which location (C).

8.1.1.2 Based on a Standard Program





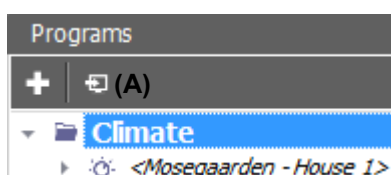
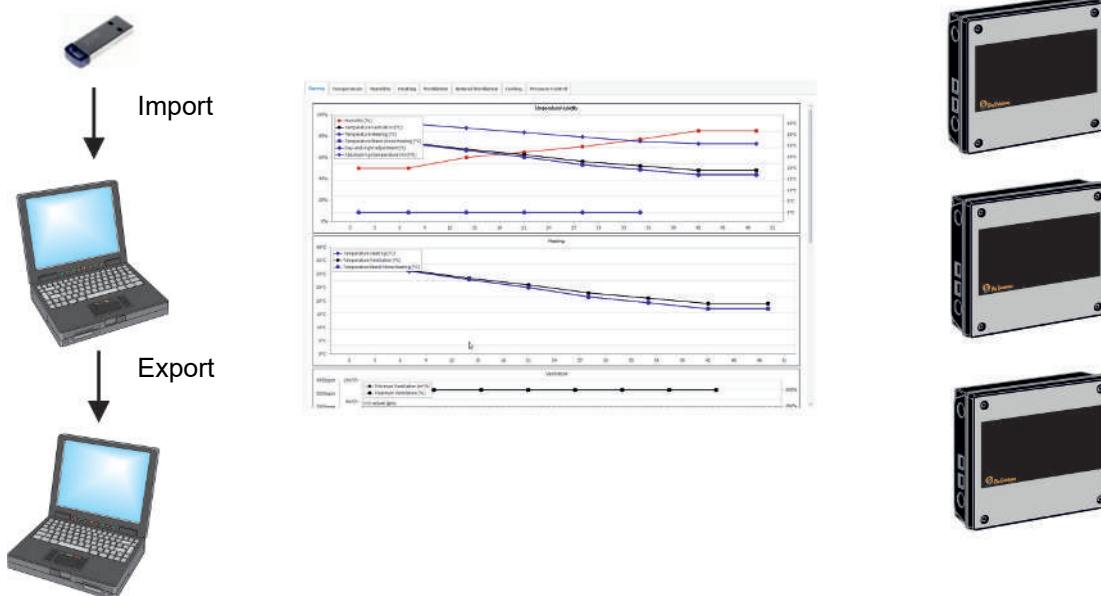
To create a new program, select the required program type **(A)** and click on the plus icon **(B)**.

Select the house controllers for which the **(C)** program is to be used, as well as the functionality that corresponds to the installation.

Name the program **(D)**.

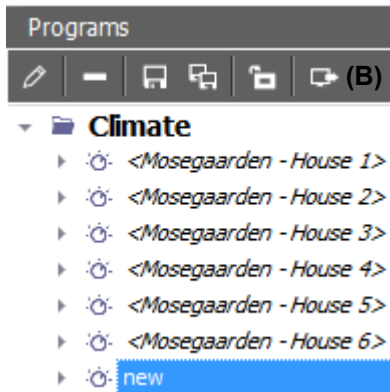
8.1.2 Import and export of day program

A day program can be exported to a file format, which can be sent to another computer or to Support for troubleshooting. The program must first be copied if it is already installed on a house controller.



Select the required program type and click on the import icon **(A)** to import the day program from a PGM file.

Locate the file to be imported.



Select the required program and click on the export icon **(B)** to export the day program to a PGM file.

Save the file on your computer so it can be sent by email or saved on a USB flash drive.

8.2 Editing Programs

The overviews provide a complete overview of the house controller's climate curves, production programs and references.

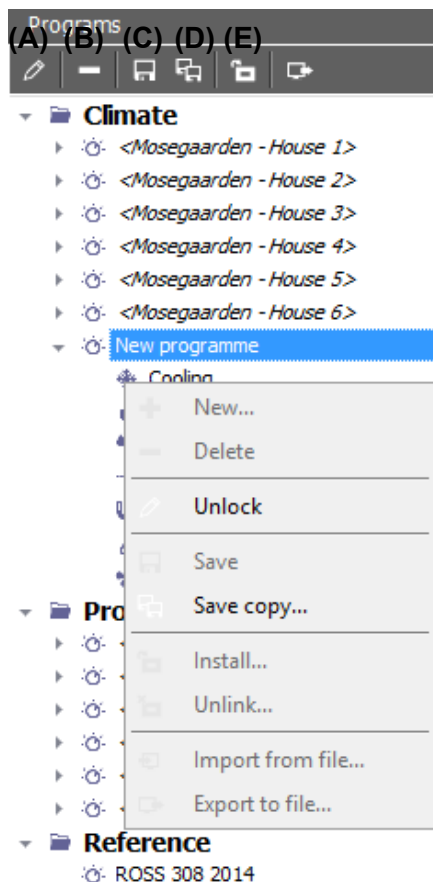
The subtabs provide access to adapting individual parameters and alarms for each function.

The functions and tabs shown depend on the type of house controller. Functions that are available in the house controller, but not installed, are not shown or appear as toned-down functions.

For a description of the functionality of the climate and house controller, see the documentation for the house controller.

A day program can only be edited via the Program Manager **before** it is installed on the house controllers.

If a program has already been installed, a copy of the program must be created for subsequent editing and installation. In addition, the original program must be deactivated on the house controller.



All programs are edited by means of tools, which are available in the program's tool bar and via a right-click menu.

- (A) Click to open the program for editing and to end editing
- (B) Click to delete the program
- (B) Click to save the program
- (D) Click to copy the program
- (E) Click to deactivate the connection between the production or climate controller and BigFarmNet Manager

When a day program is installed on a house controller, a connection is created between BigFarmNet and the house controller.

When changes occur, e.g. after a software update on the house controller or by editing the day program, it may be necessary to disconnect the connection and install a new day program.

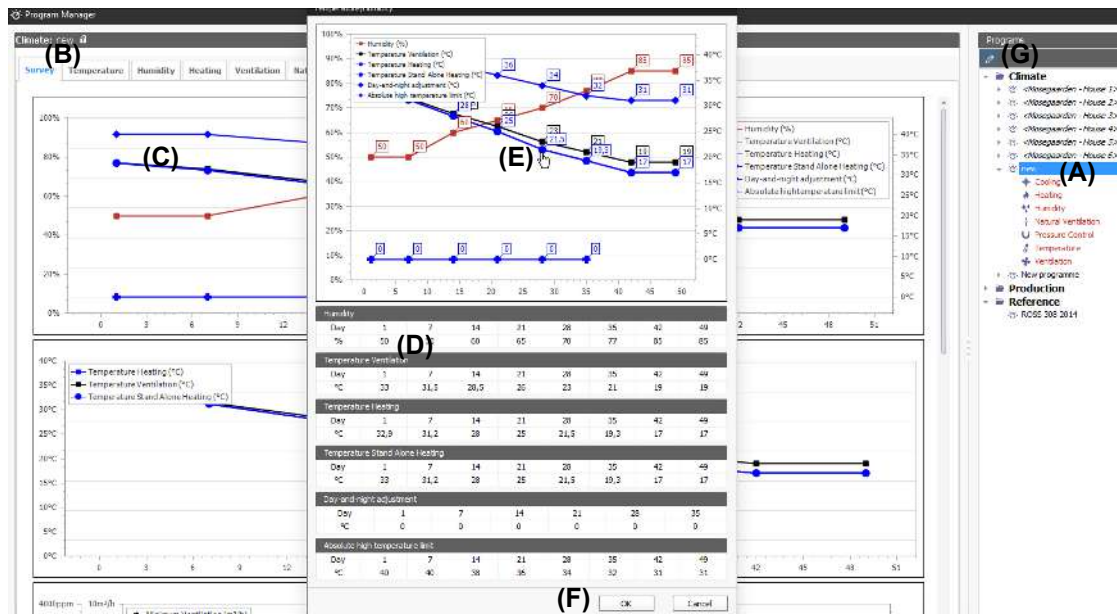
It is not possible to edit and delete programs that are currently being used in a house. Instead, a copy must be created with a new name.

The software version number should be included when naming copies. The software version number is found in the menu **Network Information** under **Setup**.

It is possible that a program based on a software version number cannot be installed on a house controller with newer software.

8.2.1 Editing Curve Programs

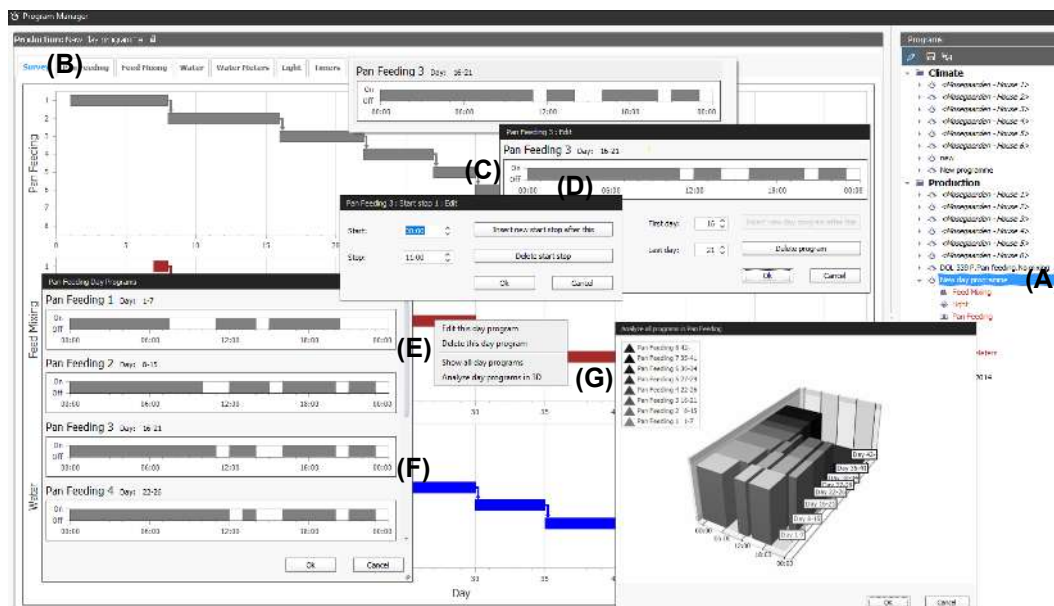
The editing principles apply to all curve programs.



1. Open the program that has been copied for editing (A).
2. Select the tab **Overview** (B) and double-click in the curve to be changed (C).
3. In the table, click the value to be changed (D) and enter the new value
4. or
5. point at the curve and drag it when the cursor changes to a hand (E).
6. Click **OK**. (F) when all the required changes have been made.
7. Close editing (G).

8.2.2 Editing Day Programs

The editing principles apply to all day programs.

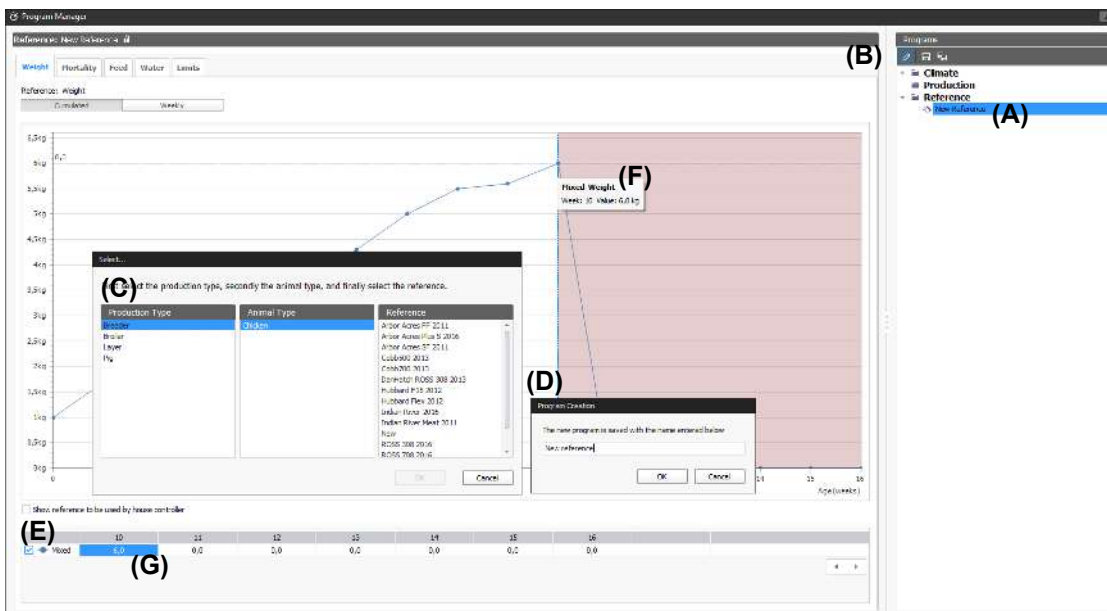


1. Open the program that has been copied for editing (A).

2. Select the tab **Overview (B)**.
3. Click on a day program, hold down the cursor and drag to change its length, or double-click the program to be able to **(C)**:
 - edit start and stop times.
 - enter a new day program.
 - delete the day program.
1. Double-click a start time in the pop-up menu in order to **(D)**:
 - edit start and stop times.
 - enter a new start/stop time.
 - delete the start time.
1. Right-click on a day program in order to **(E)**:
 - edit the day program.
 - delete the day program.
 - view all day programs **(F)**
 - analyze the day program in 3D **(G)**.

Scroll to enlarge or diminish the graphic illustration.

8.2.3 Standardreference



1. To create a copy of an existing standard reference, select the program in the list **(A)** and click on the copy icon. You can also do this by clicking on the plus icon **(B)** that appears when **Reference** is highlighted.
2. Select **Production type**, **Animal type** and **Reference (C)** and give the reference a new name **(D)**.
3. The diagram contains reference values for each production type. Place a check mark in the table next to the type to be displayed **(E)**.
4. A screen tip **(F)** will appear when the cursor hovers over a point in the curve and by clicking the value in the table below the curve is highlighted **(G)**.

Graphic colors for status indication

Under the tab **Limits** it is possible to adapt the status display of key values.

The colors in the graphic illustration indicate the production status of the key value in question. Three optional colors can be used for each value to indicate whether the status is **Normal**, **Observe** or **Critical**.

Upper and lower percentage limits can be set for critical and observation statuses. The colors will thus show when a key value's current value deviates from the reference with the set percentage.

The screenshot shows the 'Program Manager' window with the 'Limits' tab selected. The table lists various reference values and their corresponding status limits. The 'Edit Color Limits' modal is open, showing settings for 'Critical', 'Observe', and 'Normal' statuses. The sidebar on the right shows the program structure with 'Reference' selected.

Reference name	From day	Critical above	Critical below	Observe above	Observe below	Normal	Observe	Critical
Colostrum	0	20 %	10 %					
Dead and culled	0			10 %	30 %			
Dead and culled per day	0			25 %	50 %			
PCD	10			5 %	20 %			
Feedlot per day	4	30 %	10 %	20 %	40 %			
Feedlot illness	4	30 %						
Mortality	0							
PCD	10	10 %						
Water feed per day	0	40 %						
Water feed illness	0	30 %						
Water feed per day	4	30 %						
Weight	0	20 %						

Click on the reference to be **(A)** edited then click on the editing icon **(B)** in order to open the reference for editing.

Select the **Limits** tab **(C)**.

Place a check mark in the checkbox **(D)** next to a key value in order to use colors and limits in status displays.

Select a reference in the list and click on the **Edit Color Limits (E)** button or double-click on the reference.

You have the following setting options:

Use colors and limits in status displays.

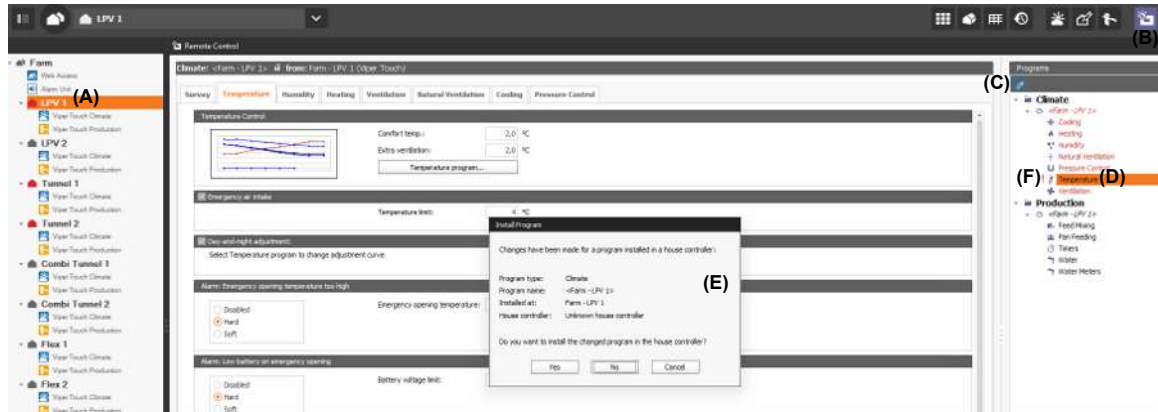
The time the limit should be valid from.

Limits: Percentage deviations for critical and observation status in relation to the reference values.

Colors for critical, observation and normal status.

8.3 Remote control

Use the **Remote Control** function to edit a program directly at a specific location.



1. Select a location in the navigation structure to the left **(A)** and click on the remote control icon **(B)** to edit a program for this location.
2. When remote control is used, the programs are edited as described in Editing Programs [► 33].
3. Click on the editing icon **(C)** to edit the selected program **(D)**.
4. When editing is complete, click the edit icon **(C)** again to transfer the change to the house controller. Confirm the transfer in the pop-up menu **(E)**.

If a named program has been installed in the house controller and the program is then changed using the remote control function, a red exclamation mark **(F)** will appear next to the program.

9 Analysis

9.1 History

BigFarmNet Manager can collect data in the form of diagrams for any given period. This makes it possible to document and analyse, e.g. developments in climate regulation and alarm sequences, and to compare different parameters.

It is possible to compare several selected locations and batches in terms of history. It is also possible to make notes in the dashboard module, which are displayed in a specific place in the history. See also the section Dashboard [► 8].

Click on the history icon **(A)**. BigFarmNet Manager is able to display graphs of all values that can be retrieved from house controllers.











History tools


Click to select the required tool. The active tool is shown as a mouse cursor. Click the tool again to deactivate it.

- Select key values **(B)**
- Zoom: click and drag to zoom **(C)**
- Move zoom area **(D)**
- Undo zoom **(E)**
- Select percentage zoom **(F)**
- Click on a key value in the graph to highlight it in the list **(G)**

History intervals

History can be displayed as date view or batch view (week) **(H)**.

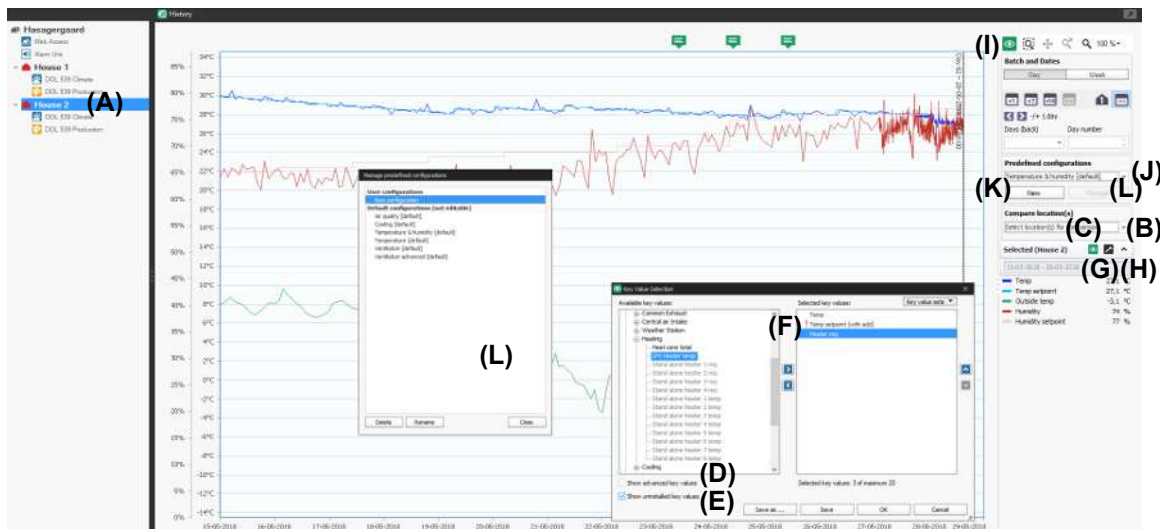
Day		Week	
	The past 24 hours		The past week
	The past week		The past five weeks
	The past two weeks		The past ten weeks
	Entire batch		Entire batch

Click the symbol for batch view  then select the day number on which the view is to start as well as the number of days.

Click the symbol for date view  to select the interval.

9.1.1 Comparison between locations and user-defined graphs

Data for several locations can be compared in the graphic history view.



The basis of the comparison is the location selected in the location structure (A).

Click on the arrow to select the location to be compared (B).

Click on the key value icon (C) in the location tool bar to select the key values for the individual location. Mark **Show advanced Key Values** Select Show advanced key values (D) to select graphs of additional key values.

Mark **Show uninstalled key values** (E) to view key values for functions that are not installed on the house controller.

A red exclamation mark (F) next to a key value indicates that the function is not installed.

Click on the tool icon (G) to configure the colors, shapes and y-axis of the graph.

Click on the arrow (H) to minimize the location view so that the key values are not displayed.

Click on the cross to remove the graphs of the location from the diagram.

Click the key value icon (I) in the general tool bar to select key values for all locations, which are compared at once.

BigFarmNet Manager has a number of predefined graph setups with key values selected for various analyses. Click on **Select...** (J) to select the types of graph to be displayed.

Click on **New** (K) to create a new custom graph.

Click on **Administer** (L) to delete custom graphs.

9.1.2 Adjusting the history view



Place the cursor in the diagram and right-click to open a context menu for adjusting the history view (A).

Right-click and select **Add new window** to distribute the graphs in several windows and move the graphs between windows.

Right-click and select **Setup window** to select background colors for the graph. Select the graph to be setup if there are several graphs.

It is possible for the diagram to indicate the duration of different periods using a color code. The X axis can show the date/time or the day number of the batch.

Right-click in the displayed list of key values (B) to select the window in which the graph will be shown and customise its appearance.

Select **Setup graph...** to select the type of graph for each key value (C) in the list.

Select y-axis view:

- **Common axis**: all key values with the same device (e.g. °C) have the same axis.
- **Own axis – auto scale**: the individual key value has its own axis, the scale of which adapts according to the values shown.
- **Own axis – fixed scale**: the individual key value has its own axis with defined minimum and maximum values. Select this type of axis to be able to display parallel offset graphs.
- **Hide axis**: select the check box to hide the y-axis.

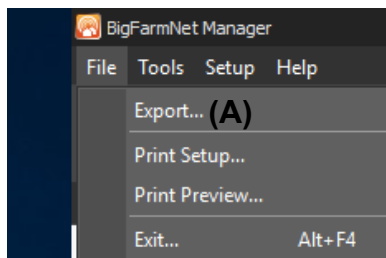
Select background color for viewing periods (D) for:

- Active house
- In-between functions

9.2 Data Export

BigFarmNet Manager is able to extract data from **Overview, Alarm, History, Climate, Broiler/ Breeder/ Layer** for processing in other programs. An extract consists of the data which are currently being viewed in the window.

All views can be printed directly.



1. Select data to be exported.
2. Select **Export (A)** in the menu **Files**.
3. Select the required file format.

Data from **Overview**, **Alarm**, **History**, **Climate**, **Broiler/ Breeder/ Layer** can be exported to PDF, etc.

Data from **Overview**, **Alarm**, **History** can also be exported to Excel.

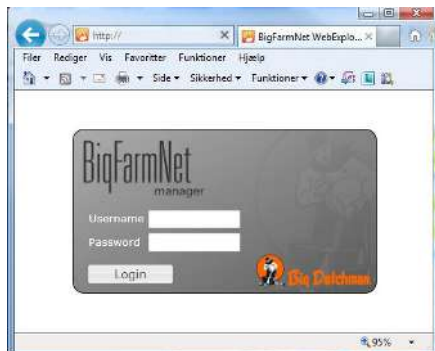
1. Indicate the required data set-up.
2. Name and select location of file.

10 WebExplorer

BigFarmNet name WebExplorer is a webpage providing reading access to history, overview and alarm log in BigFarmNet Manager.

The webpage is in English.

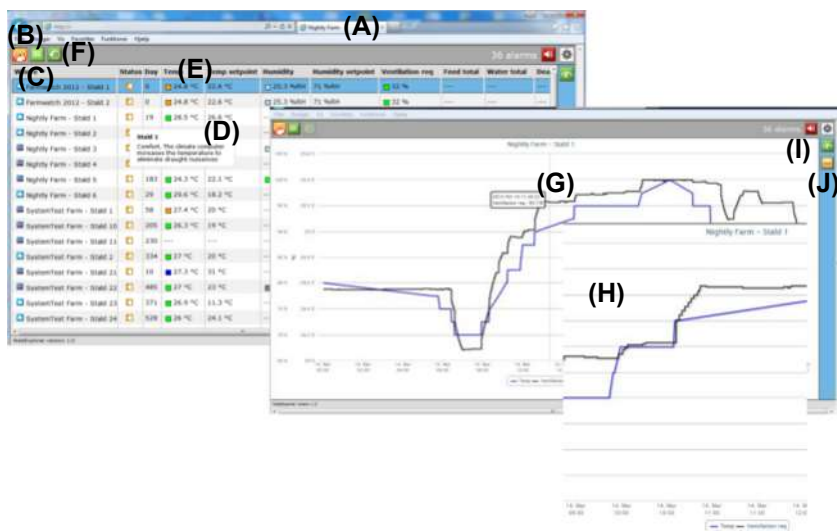
See Technical Manual for how to set up WebExplorer.



Open an internet browser (e.g. Firefox, Google Chrome, Internet Explorer).

Enter the WebExplorer address.

Log in by entering the BigFarmNet Manager user name and password.



The title of WebExplorer is the same name you entered in Web-Access (A). This is typically the name of the farm but can also be the name of the collection of farms.

Click on the WebExplorer icon (B) or the overview icon (C) to open the overview display.

Hover the cursor over a value to display an explanatory screen tip (D).

Click on the column heading (E) to organize the column according to the values read.

Select a location in the overview and click on the history icon (F) to open the graphic history view.

Hover the cursor over a value to display the precise value and time (G).

Click and drag to zoom inside the graph (H).

Click on the key value icon (J) to change the displayed key values.

Click on the icon (I) to change between different period views.



Today



Yesterday



Last week




Current batch

The screenshot shows the 'Current batch' section of the BigFarmNet Manager. It features a table of alarms with columns for Type, Category, Alarm, and When. A tooltip (B) is displayed over the 'Stable 3' entry, explaining that the feed consumption is low and the alarm is only active during a feeding period. The 'When' column header (C) is highlighted. A sidebar on the right contains a list of stables (Stable 3, Stable 4, Stable 5) and a 'Logout' button (D) with a gear icon. The interface also shows a '8 alarms' notification and a 'Feed' section with a '0 kg' value.

Click on the alarm icon **(A)** to open the active alarms log.

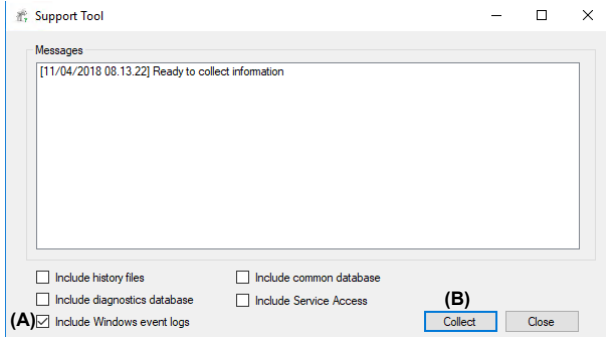
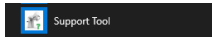
Hover the cursor over a value to display an explanatory screen tip **(B)**.

Click the column heading **(C)** to organize the column according to the values read.

Click on the icon  **(D)** to log off WebExplorer.

11 Support Tool log

In connection with fault finding, it may be of great help to supply Big Dutchman Support with a Support Tool log. The Support Tool log is found in the Windows start menu.



Most often it is sufficient to collect Windows event logs **(A)**. Press the button **(B)**, the tool now generates a zip file with technical information which can be sent to Big Dutchman Service.

12 Remote Access

With the function Remote Access, BigFarmNet Manager allows direct access to house controllers from the Viper Touch-series, with a display that corresponds 1:1 to the house controller display.

On a local network the user can therefore access functions and data in the house controller directly via BigFarmNet Manager. Access on networks with an internet connection may be achieved via, e.g. TeamViewer (a program for remote service and presentation). The function will therefore make service access easier to house controllers in connection with error detection and other support.



12.1 Allocation of Remote Access license

The Remote Access function requires one license per house controller.

Remote Access License Configuration				
Licenses				
Where	House Controller	Remote Access	IP Address	Log
A11	Viper Breeder	<input checked="" type="checkbox"/> (A)	10.252.36.111	(C) Show
A13	Viper Breeder	<input type="checkbox"/>	10.252.36.113	Show
B21	Viper Breeder	<input checked="" type="checkbox"/>	0.0.0.0	Show
C31	Viper Broiler	<input checked="" type="checkbox"/>	0.0.0.0	Show
C33	Viper Broiler	<input checked="" type="checkbox"/>	10.252.36.133	Show
C35	Viper Flex	<input type="checkbox"/>	10.252.36.135	Show
D45, D46	Viper Flex	<input type="checkbox"/>	10.252.36.146	Show
E51	Viper Basic	<input type="checkbox"/>	10.252.36.151	Show
E55, E56	Viper Basic	<input type="checkbox"/>	10.252.36.155	Show
License (Used/Available [Locked]) : 4/20 [0] (B)				
				Save Close

Select **Remote Access** in the menu **Tools**.

BigFarmNet Manager displays the houses that can be accessed via Remote Access.

Place a check mark **(A)** to connect a Remote Access license to a house.

The program displays how many licenses are being used and how many are available **(B)**.

It is possible for a log to display the last 1000 actions carried out by the house controller during operation **(C)**.

Note! This function does not apply to house controllers with software version 7.0 or higher.

12.2 Operation log

Note! This function does not apply to house controllers with software version 7.0 or higher.

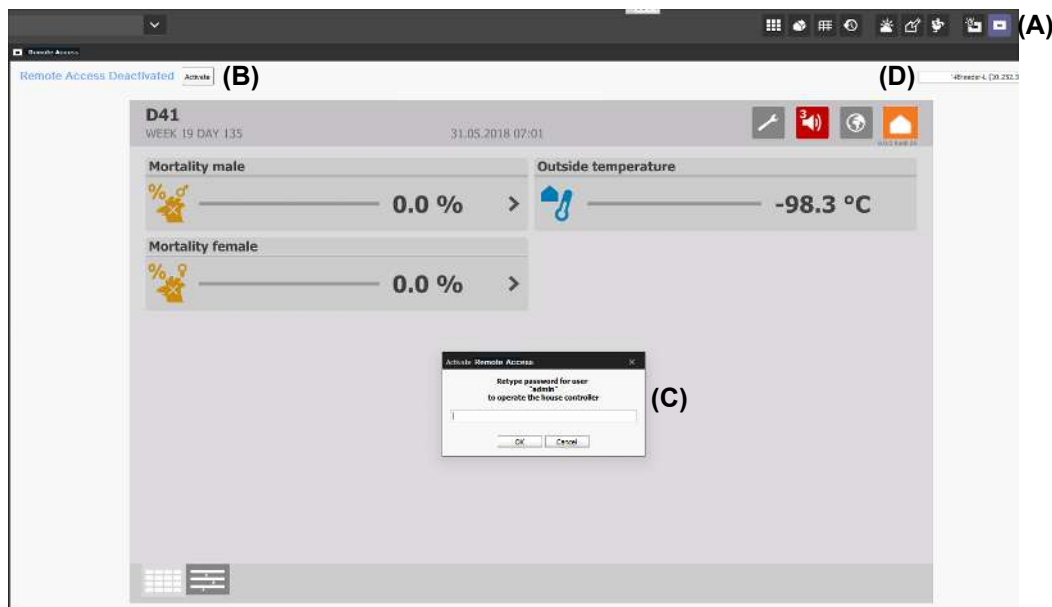


Click on the arrows to view previous (A) or later (B) changes.

A red circle (C) indicates where the display has been clicked. The user who carried out the change (D) and the time the change was made, is displayed in the lower left corner.

12.3 Local access to house controller display via Remote Access

Controllers on the same local network as the PC with BigFarmNet Manager can be directly accessed via Remote Access.



Select a house in the navigation tree and click on the icon for Remote Access (A).

Click on **Activate** (B) to access the controller in a display view.

A user login (C) grants Remote Access access to the selected controller's display.

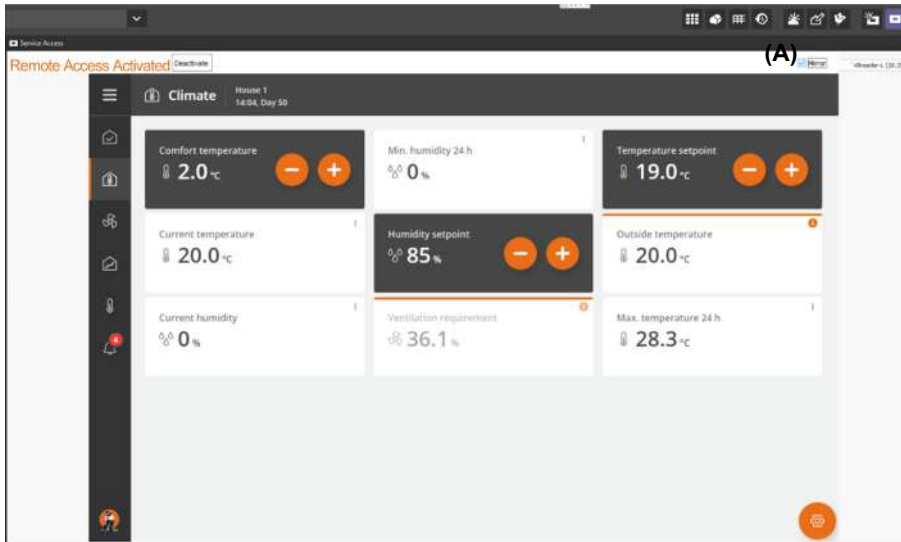
You can switch to displaying other house controllers in the same house by using the drop-down menu in the top right corner (D).

It is not possible to carry out batch start/batch stop using Remote Access.

Click on **Deactivate** to exit remote service.

! Note that the appearance of the display depends on the selected controller. For controllers with software version lower than 7.0, the display is updated every 10 seconds and it is not possible to carry out batch start/batch stop using Remote Access.

For controllers with software version 7.3 or higher, the controller display can be mirrored in BigFarmNet Manager:



Put a check mark in **Mirror (A)** to activate the function.

Access to operating the controller using Remote Access depends on the user type.

	Guest	Normal user	Admin user
Remote Access visible	√	√	√
See license	√	√	√
Activate Remote Access		√	√
Move license to another house			√
See log			√

! Note that the log function does not apply to controllers with software version 7.0 or higher.

13 Setup functions

13.1 Password

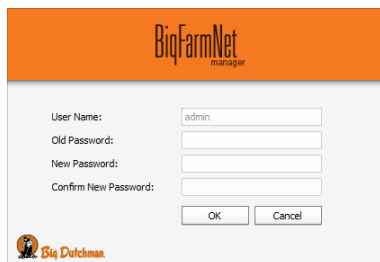
13.1.1 Creating and Changing Passwords

New users are created with their user name only and without a password. See Create, adjust or delete [► 50].

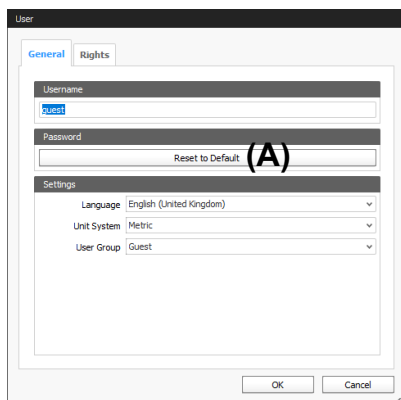
New users must therefore create their passwords in the menu **Tools/ Change Password**.

The first time a user logs in, the field **Old password** must be empty. Enter the required password in the field **New password**.

The user logged in can change his password in the **Tools/ Change Password**.



13.1.2 Forgotten Password



Passwords can be reset (A) by users with minimum administration rights in the administration menu. **Tools / User administration**. See also User Administration [► 49].

After resetting the password, the field **Password** must be empty when logging in next time.

See also Create, adjust or delete [► 50].

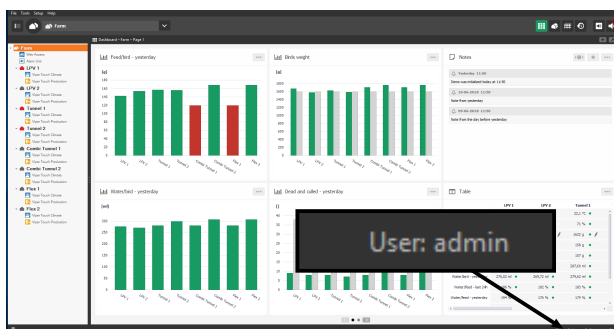


13.1.3 User Administration

13.1.3.1 User groups

BigFarmNet Manager has three user groups with different program rights. The "admin" user has been created as the default user in the program see Login [▶ 5]. (Login) New users must be created and assigned to a user group.

User group	Rights
Guest	Reading access. Access to BigFarmNet WebExplorer.
Normal	May save changes in settings and setup + alarm acknowledgement + the above.
Admin	May carry out user administration, program setup via the configurator + the above. Setting up remote connections via Web access.



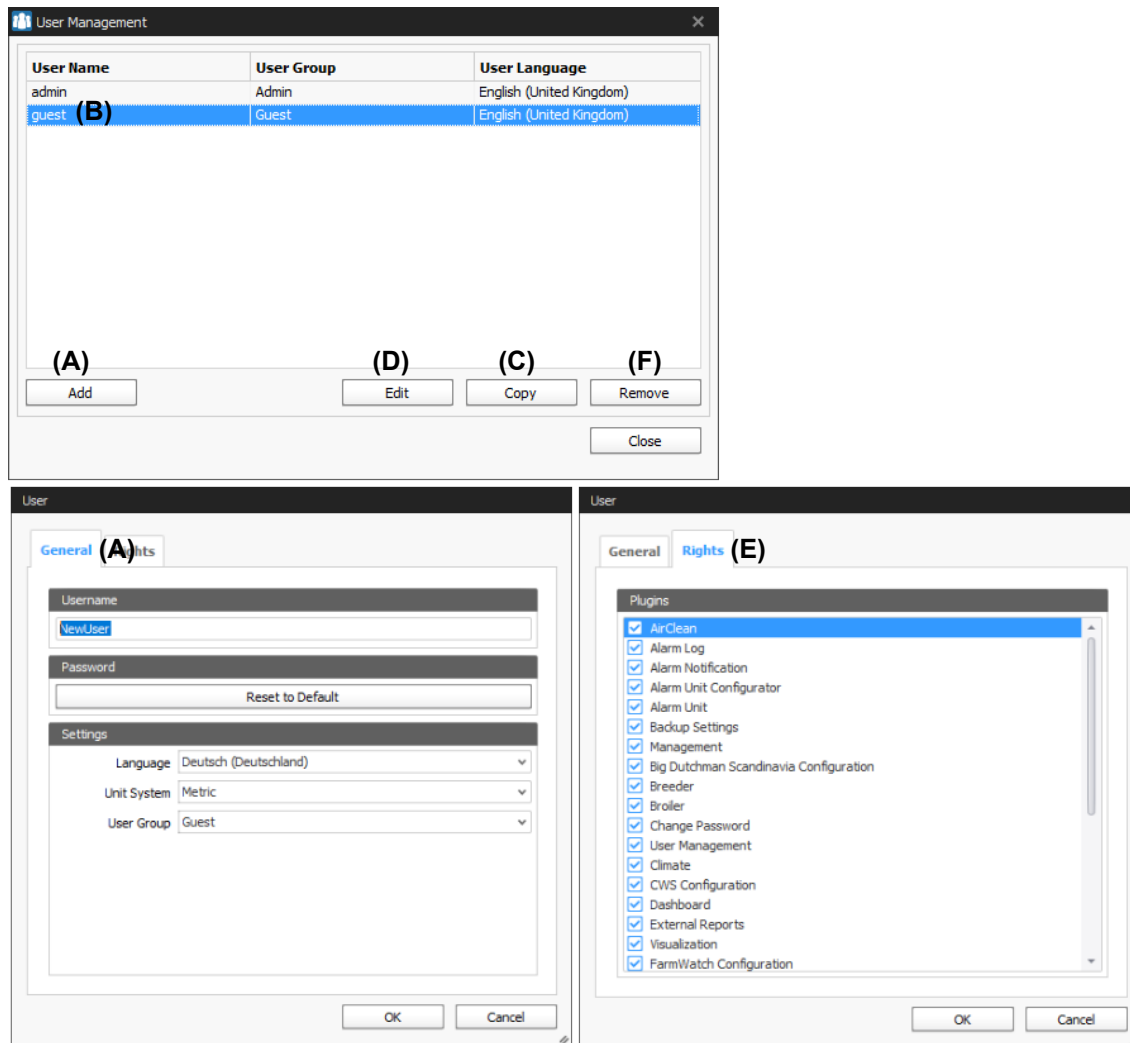
The user name of the logged on user is shown in the bottom right corner.

Choice of language and device display will follow the user. When the user logs in, the program will start up with the selected language and display.

13.1.3.2 Create, adjust or delete

The functions described in the following are only accessible to users with administration rights.

Select **User Administration** in the menu **Tools**.



Click **Add (A)** to create a new user.

Highlight a user **(B)** and click **Copy (C)**, if a new user is to have the same rights and settings as an existing user.

State:

- User name. It is not possible to have several users with the same name.
- Language. The language to be used by BigFarmNet Manager when this user logs in.
- Unit of measure (metric/US/British).
- User group (**Guest**, **Normal**, **admin**).

Select the user name whose rights are to be changed and click **Edit (D)**.

Adjust the rights as described earlier.

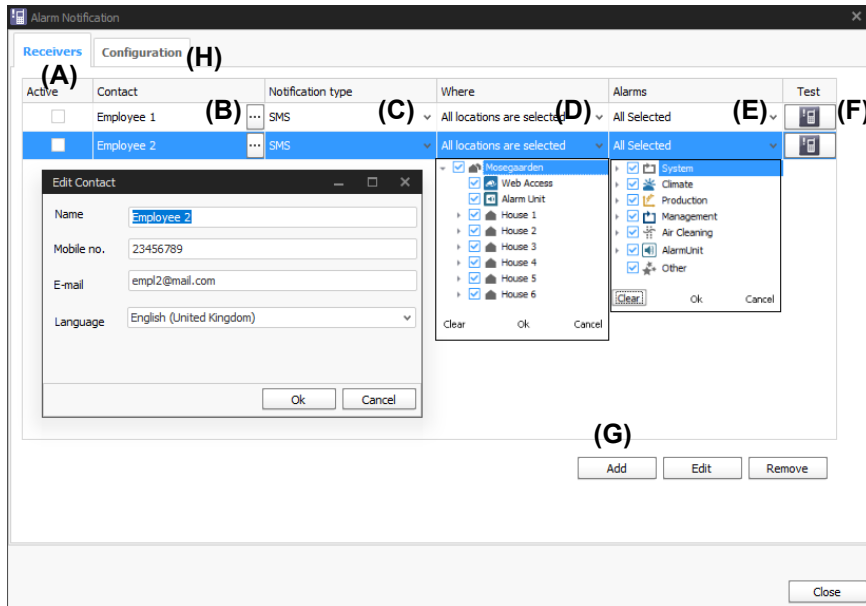
In the tab **Rights** tab **(E)** indicates the individual user's access to the operation of BigFarmNet Manager.

The user only has access to the functions selected with the check mark.

Select the user to be deleted in the list and click **Remove (F)**.

13.1.3.3 Alarm Notification to Users

BigFarmNet Manager can generate an alarm message in the form of a text message or an email. SMS messaging requires connection of a Big Dutchman GSM modem to your computer.



Select **Alarm notification** in the **Tools** menu.

The **Recipients of messages** tab (A) displays a list of recipients created.

For each recipient, select:

- type of message
- locations
- types of alarms

Click the field next to the name in column **Contact** (B) to change contact data for recipients created.

Select the check box (C) next to the type of message the recipient is to receive.

Email cannot be selected until the function has been activated in the tab **Setup (I)/ Email configuration**.

Select the check box (D) next to the location from where the recipient is to receive alarms.

Select the check box (E) next to the type of alarms which the recipient is to receive.

Click on the (F) symbol to send a test to the selected recipient.

Click **Add** (G) to add a new message recipient.

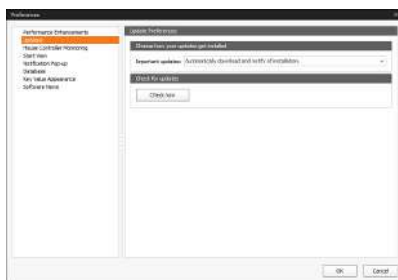
Enter contact data for the recipient. **Language** indicates the language in which the message is sent.

See the Technical Manual for how to configure SMS messaging and emails for alarm notification.

13.2 System preferences

The various settings for system preferences can be implemented under **Setup / Preferences**.

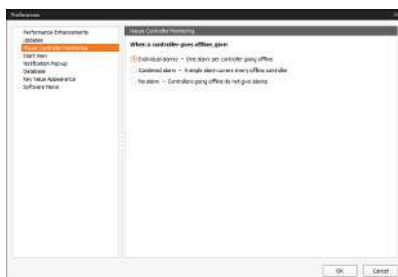
13.2.1 Automatic update



We recommend automatic update of the program.

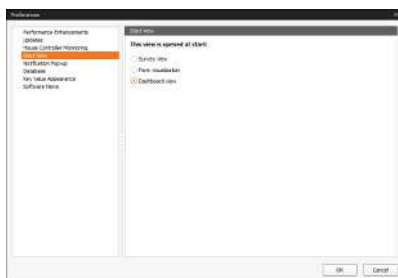
If the computer running BigFarmNet Manager uses Windows 7, it is necessary to deactivate automatic updates as the program does not support Windows 7 as from version 4.2 and onwards.

13.2.2 Alarm for house controller monitoring



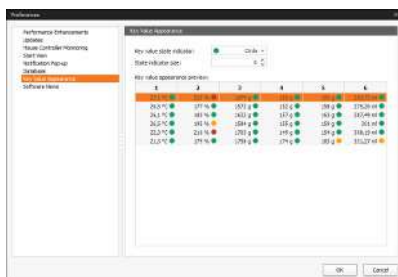
Select the type of alarm to be used when a house controller goes offline.

13.2.3 Start-up display



Select the overview display that BigFarmNet Manager will start up with. The factory setting is **Dashboard**.

13.2.4 Key value layout



Select the appearance of the key value indicator in surveys. The indicator may be a circle or a square and the size can also be selected here.

13.2.5 Network Information

Network Information

Statistics (A) System Foreign Systems Setup Connections

Network Statistics

The table is last updated at 09:03:52

Node Name	Maximum Response Times, New -> Old (ms)	Latest 15 minutes		1 Hour		1 Day		7 Days		30 Days	
		Time ms	Loss %	Time ms	Loss %	Time ms	Loss %	Time ms	Loss %		
System Overall	12 ...	18,3	4,17	21,6	3,14	11,1	1,26	16,1	1,27		
10.0.0.1	6 ...	18,0	1,35	20,5	1,05	14,5	0,42	13,5	0,38		
10.0.0.2	12 ...	18,3	0,00	18,4	1,05	10,2	0,84	12,8	1,27		
10.0.0.3	8 ...	15,4	1,39	21,6	1,05	18,5	1,26	15,6	0,63		
10.0.0.4	2 ...	7,2	4,17	13,5	3,16	18,5	1,26	16,1	0,89		
10.0.0.5	0 ...	7,7	0,00	7,4	0,00	18,0	0,00	14,7	0,51		
10.0.0.6	4 ...	7,2	4,17	7,3	3,16	16,3	1,26	12,2	1,27		

NTP Statistics

NTP Server Status: Internal server started

Last time server announcement sent at: 2018-03-15 09:03:00

Refresh

To view information about network, network configuration and connection, see the menu **Network Information** under **Tools**.

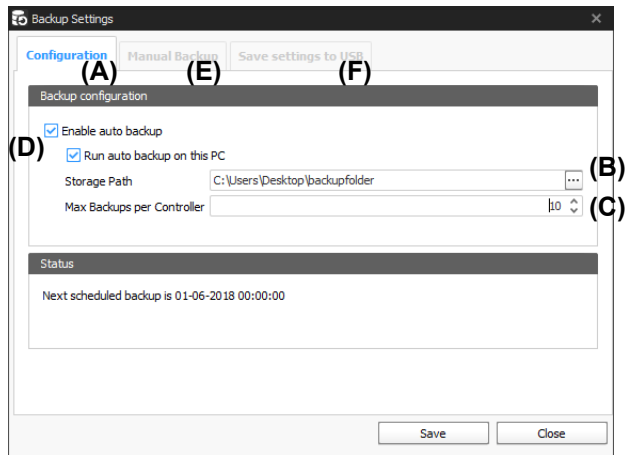
This menu displays activity statistics for the entire network that BigFarmNet Manager is a part of. This is a good tool for ensuring that the network is functioning optimally.

It also provides access for carrying out network configuration for newer versions of house controllers on the network. See also BigFarmNet Manager Technical manual.

13.2.6 Backup settings

It is possible to allow BigFarmNet Manager to back up the settings of all house controllers in the system automatically.

See menu **Backup settings** under **Tools**.



You can select which backups should be saved on the computer (B) under the Configuration tab (A) and how many backups should be saved (C) before deleting.

Only one BigFarmNet Manager computer (D) per system may be configured to backup automatically.



Only the house controller's settings are saved during backup.

Under the tab **Manual backup (E)** it is possible to make a manual backup of the house controller's settings and save this backup on a computer or USB flash drive.

Automatic and manual backups can also be loaded back into the house controller again (F) by means of a USB flash drive.

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