

GREENLINE+

Experience the new way to
use fume cupboards

GREENLINE+ IN A NUTSHELL

Greenline+ is a new and innovative fume cupboard interface designed to revolutionise fume cupboard energy efficiency and take user safety to the next level. It is a joint innovation that integrates with VISU fume cupboards and the Fanison ventilation control system.

Greenline+ appears to the user as a glowing colour-coded guidance light on the side panel and as clear information on the user panel. It guides and assists users in operating the sash correctly and safely. Learning requires no separate training as users learn the correct sash operation intuitively while using the fume cupboard.

Greenline+ provides direct benefits in both improved user safety and energy saving. The benefits start immediately after the first use and are permanent.

Greenline+ consists of four main components:

- **VisualGuide**
- **AutoOpen**
- **AutoClose**
- **FlowRateSelect**

WHY CHOOSE GREENLINE+?



A genuinely user-friendly solution



Modern occupational safety



Life cycle economics



Pioneering – Patented novelty for you



Reduces the operation's carbon footprint



Creates a platform for top performances

VISUALGUIDE

The vertical sliding profile of the fume cupboard has informative visual guidance, which guides the user to save energy and increases user safety. When moving the fume cupboard sash, the side light guides the user to place the sash to a safe level.

Greenline+ predicts the adequacy of the air flow and refines the estimate based on possible changes. The light panel turns off when the sash is not moved and there are no changes in the airflow.



COLOUR EXPLANATIONS

Green = Normal – Recommended working height of the sash. The air flow is sufficient to protect the user and also energy efficient, because the sash is only moderately open.

Yellow = Caution – The sash is open more than recommended, which consumes more energy. However, the airflow is sufficient to protect the user.

Red = Alarm – The air flow is not sufficient to protect the user.

For users with color vision deficiency, the status information is also reported on the system screen and with audio alarms.

VisualGuide guides and assists users intuitively.

A close-up photograph showing a hand holding a glass flask containing a green liquid. The flask is positioned under the sash of a fume hood. The sash is partially open, and the hand is holding the neck of the flask. The background is slightly blurred, showing the interior of the fume hood. The word "VISU" is written in a black box in the top left corner.

VISU

A photograph showing two glass flasks on the work surface of a fume hood. The flask on the left contains a green liquid, and the flask on the right contains a blue liquid. The fume hood's sash is visible in the background, and the Fanison logo is in the top right corner.

Fanison®

AUTO OPEN

With AutoOpen functionality, the fume cupboard sash opens automatically to the standard working height. This allows work to begin without contamination risk and without touching the sash.

The AutoOpen function is activated by the light curtain located beneath the sash. If desired, AutoOpen can also be disabled for individual fume cupboards.

During use, the sash can be adjusted touch-free, for example, raised higher within the limits of safe airflow. The automation returns the sash to the working height once the additional height is not needed anymore.

The sash can also be operated fully manually.

AUTOCLOSE

AutoClose closes the sash of the fume cupboard automatically, when the fume cupboard is not in use. This saves energy, as the air flow of the sash opening is correspondingly reduced.

The AutoClose function starts based on the presence sensor and the delay of the function is adjustable. The user can disable the feature if desired.

Automatic descent does not cause danger to the user as the sash is equipped with a sensor that detects obstacles.

Thanks to the innovative construction, using the sash is easy and precise both manually and automatically.



FLOW RATE SELECT

FlowRateSelect further enhances user safety while also increasing the versatility of the fume cupboard.

Alongside with the normal mode, two other options are available: **Boost** and **Eco**. The colour of the side light indicates the currently selected airflow mode.

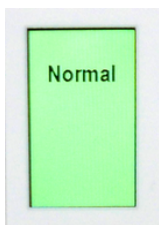
- **Purple = Boost** – increased airflow for demanding work. The extraction setpoint and alarm threshold are raised by 40%. The boosted airflow consumes more extraction capacity and may therefore affect the performance of other fume cupboards.
- **Yellow = Eco** – reduced airflow. The extraction setpoint and alarm threshold are lowered by 20%. This airflow level is ideal for low-hazard work, allowing extraction capacity to be allocated to other fume cupboards. Even at the reduced airflow level, the system maintains user safety and ensures adequate protection.



FlowRateSelect – airflow for different situations.



USER PANEL FANISON FHI 380



Colour display – provides clear information on the airflow status. It shows explanations and states of the button functions, alerts for airflow deviations, and any required maintenance notifications.

A separate user manual is not required in normal use.



Airflow increase – press and hold the button longer to switch between Normal and Boost modes. A short press functions as an emergency purge, setting the airflow to full power.



Airflow reduction – switch between Normal and Eco modes by pressing and holding the button longer. A short press activates the minimum-airflow function, which can be used, for example, while constructing installations inside the fume cupboard.



Audio alarm muting – the visual airflow alarm is displayed on the screen and in the side light. The alarm clears automatically once the airflow has returned to a safe level.



Select between AutoOpen&Close, AutoClose only or temporary suspension of sash automation button control.



The fume cupboard light can be set to operate according to the sash position. When the sash is closed, the light switches off automatically. The light can also be controlled manually via the button. The brightness of the high-efficiency LED lighting system is adjustable.

FHI 380 is installed in the guide rail of the fume cupboard sash. Its slim design ensures that visibility into the fume cupboard and ease of operation remain uncompromised.

VISU KALUSTE

Visu Kaluste Oy is a Finnish family-owned business from Visuvesi, Pirkanmaa. We manufacture high-quality laboratory furniture and fume cupboards for laboratories, healthcare environments, and educational institutions. In addition, our product range includes ergonomic and efficient VISU CC control room solutions.

Our products are designed to withstand high loads and demanding environments. Special attention has been given to ergonomics and ease of cleaning.

The extensive expertise of our wood and metal work professionals combined with the company's state-of-the-art machines and decades of experience guarantee the quality of VISU's product range.

The materials of the furniture are of high quality, fully recyclable and safe for indoor air. Thanks to their high quality, our furniture has an expected service life of at least 30 years.

FANISON

Fanison Oy has been carrying out total deliveries of special ventilation for laboratories, hospitals and industrial facilities with special expertise in the field for over 30 years.

Our specialty is implementing precisely tailored overall solutions, always according to the requirements of the object. Fanison has implemented hundreds of successful projects on a turnkey basis.

The purpose of our operation is to ensure the frictionless operation of the air conditioning system for our customers with industry excellence, high-quality products and the necessary maintenance and service contracts.

We are broadly responsible for the functionality of the whole, even if the responsibility does not belong to the product or service we sell. We try to guarantee that the whole system works, even if we're needed for only one part. A well-functioning air conditioning system is an important safety and comfort factor and it also serves as our business card.

CONTACT US!

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