

GREENLINE+

User manual

Greenline+ 26

TABLE OF CONTENTS

Page

2	----------	AutoOpen
3	----------	AutoClose
4	----------	Manual operation
5	----------	VisualGuide
6	----------	VisualGuide, colour explanations
7	----------	FlowRateSelect
8	----------	FlowRateSelect, Boost
9	----------	FlowRateSelect, Eco
10–12	----------	User interface
13	----------	Technical information



AUTO OPEN

- AutoOpen function opens the fume cupboard’s sash automatically to the standard working height. This allows work to begin without contamination risk and without touching the sash.
- The AutoOpen function is activated, when the sensors detect a hand beneath the sash.
- During the use, the sash can be adjusted touch-free to a higher position by holding a hand beneath it. The sash rises within safe operating limits. Once the additional height is no longer needed, the sash automatically returns to the previous working height.
- AutoOpen can be disabled for individual fume cupboards.



AUTOCLOSE

- The sash of the fume cupboard closes automatically, when the fume cupboard is not in use. This saves energy as the air flow is correspondingly reduced.
- The AutoClose function starts based on the presence sensor, and the delay of the function is adjustable. Yellow blinking lights in VisualGuide indicate that AutoClose is activated.
- The user can disable the feature if desired.
- The sash is equipped with an obstacle-detecting sensor. Therefore, automatic descent does not cause danger.



MANUAL OPERATION

- The sash can also be operated manually.
- Greenline+ makes manual operation of the sash smooth and precise.



VISUALGUIDE

- The vertical side profile of the fume cupboard has an informative VisualGuide, which increases user safety and guides the user to save energy.
- When moving the sash, the VisualGuide side light guides the user to a safe operating height. The height of the handle indicates which operating range is currently selected.
- The system automatically assesses and predicts whether the airflow is sufficient. Based on this assessment, the VisualGuide side light uses colour to indicate the height at which the sash can be operated safely.



VISUALGUIDE – COLOUR EXPLANATIONS

Green = Normal – recommended working height of the sash. The airflow 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 airflow is not sufficient to protect the user.

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



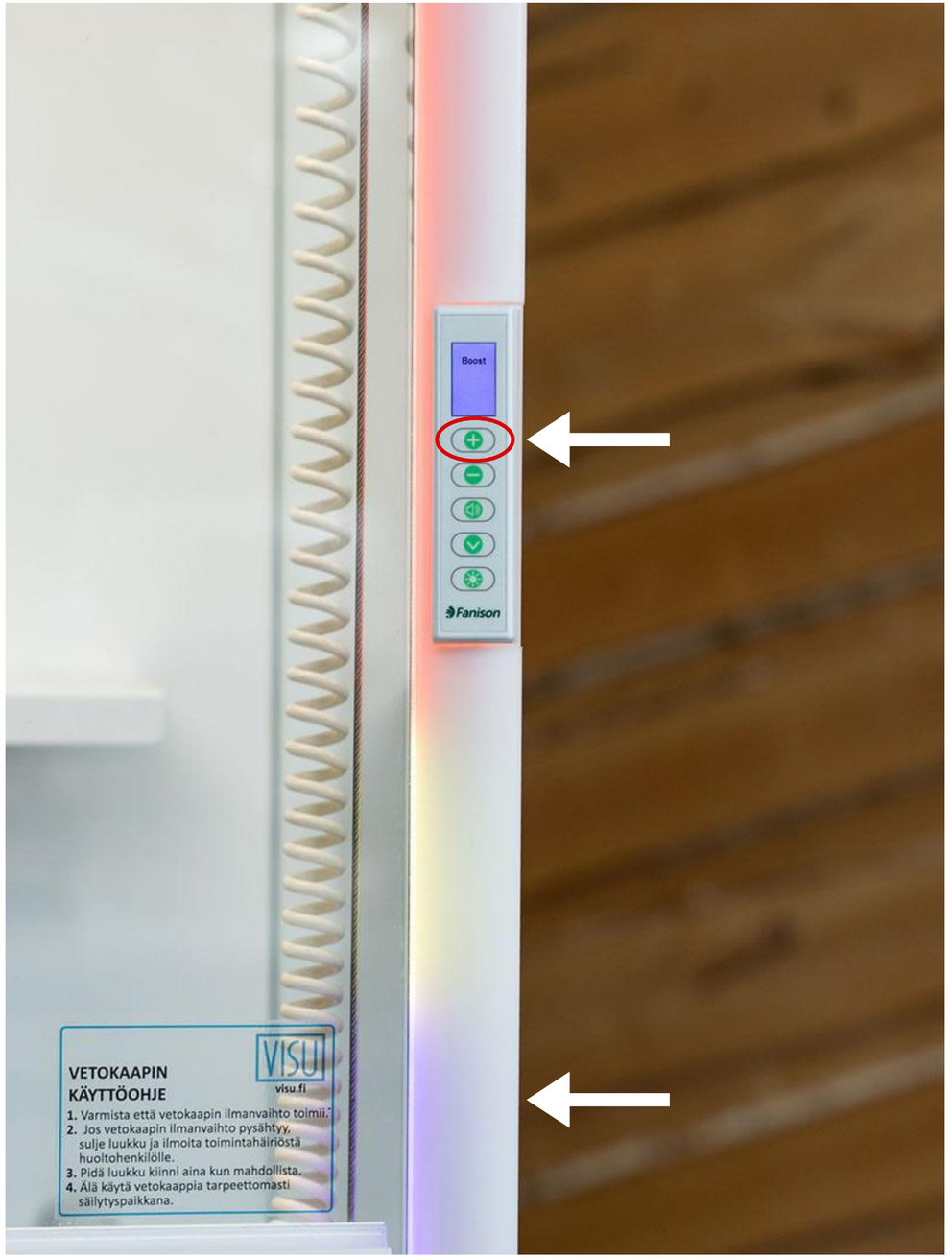
FLOW RATE SELECT

- FlowRateSelect increases the fume cupboard’s versatility.
- Alongside the normal mode, two additional options are available: Boost and Eco.
- The colour of the side light indicates the currently selected airflow mode in the place of the Normal mode’s green light.



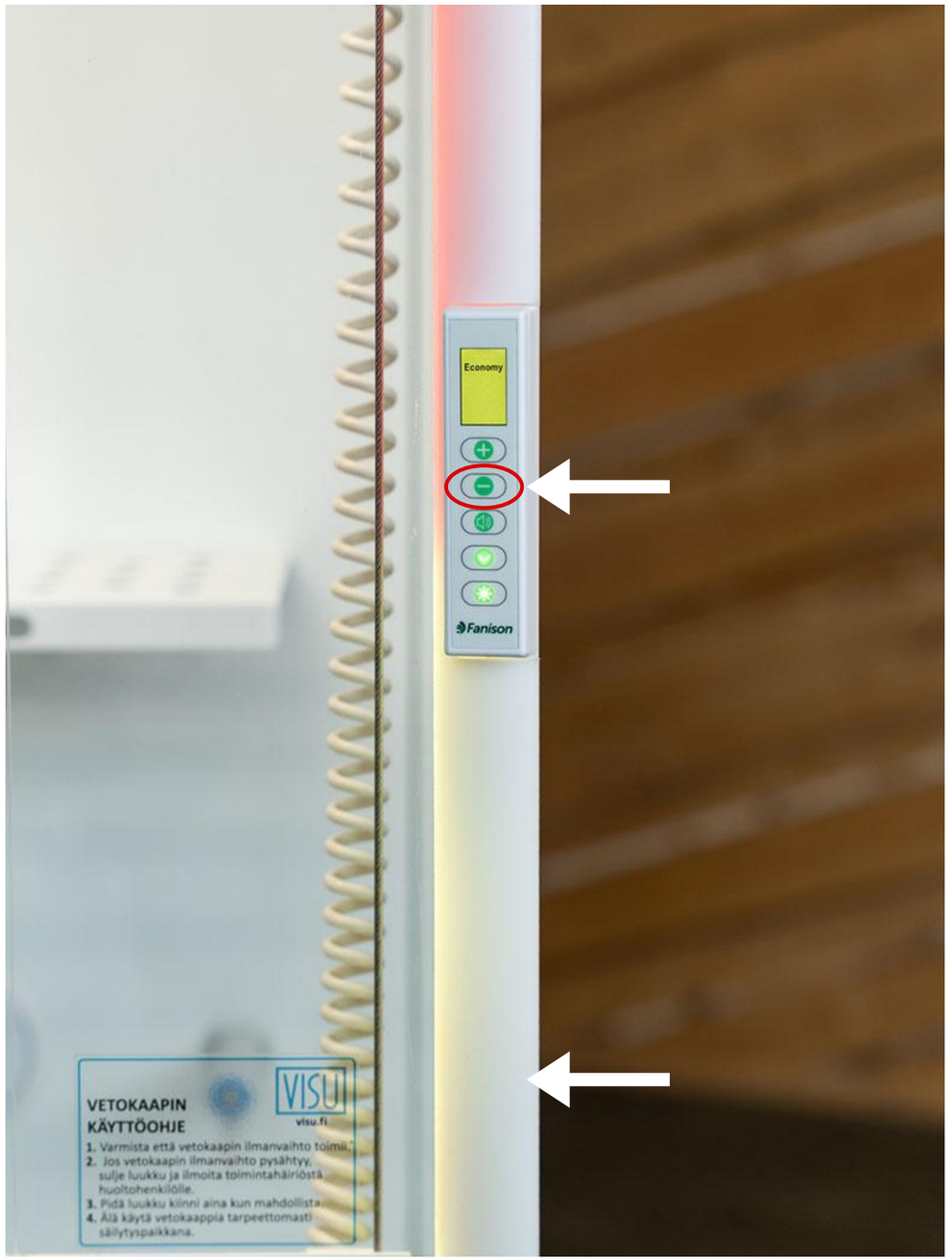
FLOW RATE SELECT – BOOST

- Purple = Boost – increased airflow for demanding work.
- The extraction power is increased by 40%.
- The boosted airflow consumes more extraction capacity and may therefore affect the performance of other fume cupboards.
- Activate Boost by pressing and holding the button for a few seconds.
- When Boost mode is active, the display and VisualGuide turn purple instead of the green used in Normal mode.



FLOW RATE SELECT – ECO

- Yellow = Eco – reduced airflow.
- The extraction power is lowered by 20%.
- Eco 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.
- Activate Eco mode by pressing and holding the ⊖ button for a few seconds.
- When Eco mode is active, the display and the VisualGuide side light turn yellow instead of the green used in Normal mode.



USER INTERFACE



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

The display ensures smooth and intuitive operation.

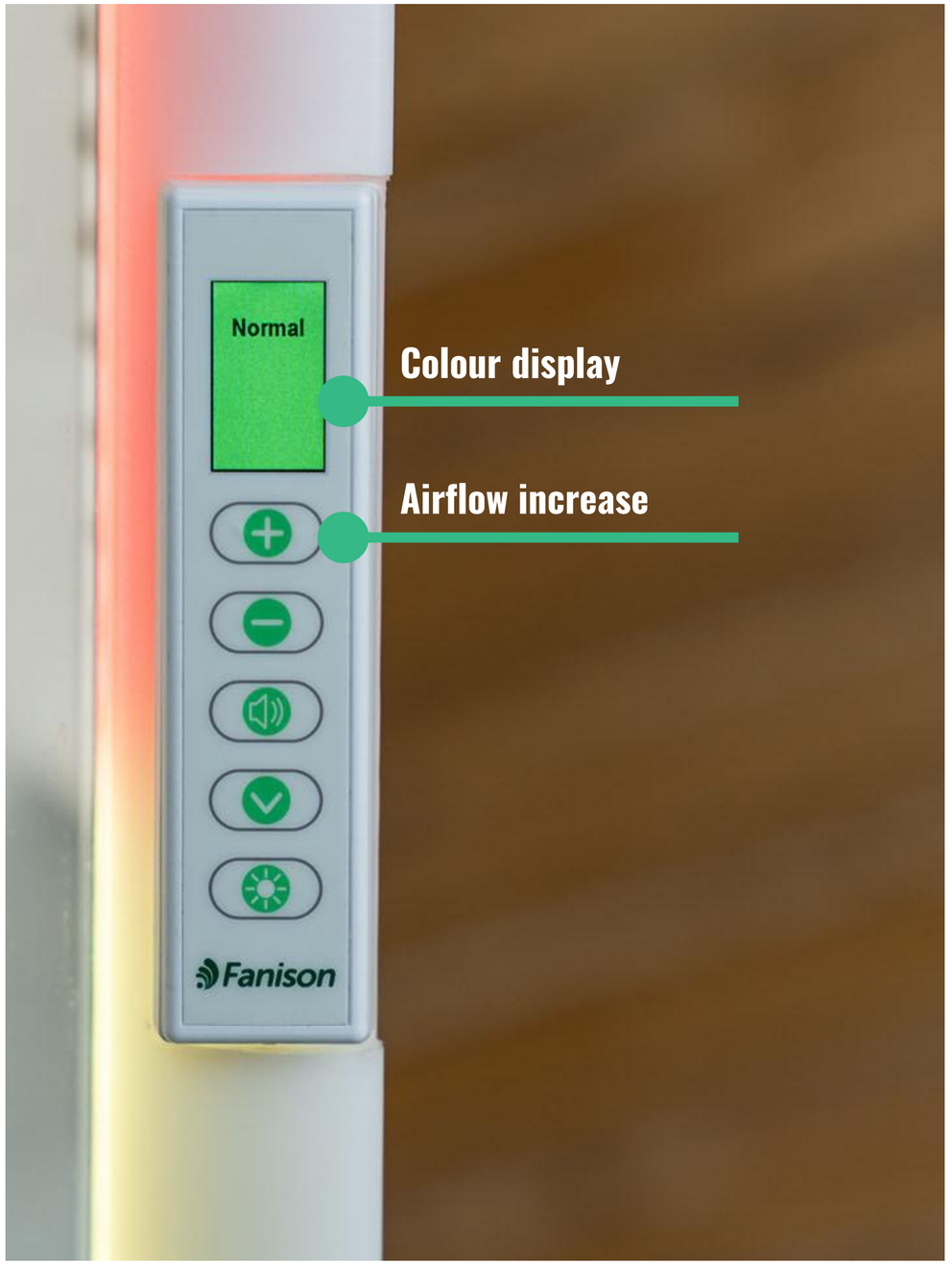


Airflow increase

Long press = switches between Boost and Normal modes.

Short press = activates emergency purge, setting the airflow to full power. Fully opens the control damper regardless of the airflow setpoint. This may affect the room pressure balance and reduce the airflow capacity available to other fume cupboards.

After emergency purge, short press  to switch back to Normal mode.



USER INTERFACE

Airflow reduction

Long press = switches between Normal and Eco modes.

Short press = activates the minimum airflow function, which can be used, for example, while constructing installations inside the fume cupboard. At the minimum airflow setting, ventilation is switched off completely by default, and the control damper closes fully.

After minimum airflow, short press to switch back to Normal mode.

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



USER INTERFACE



Selecting and pausing auto functions

1. AutoOpen and AutoClose are on
2. AutoClose is on, AutoOpen is off
3. AutoClose is paused, AutoOpen is off

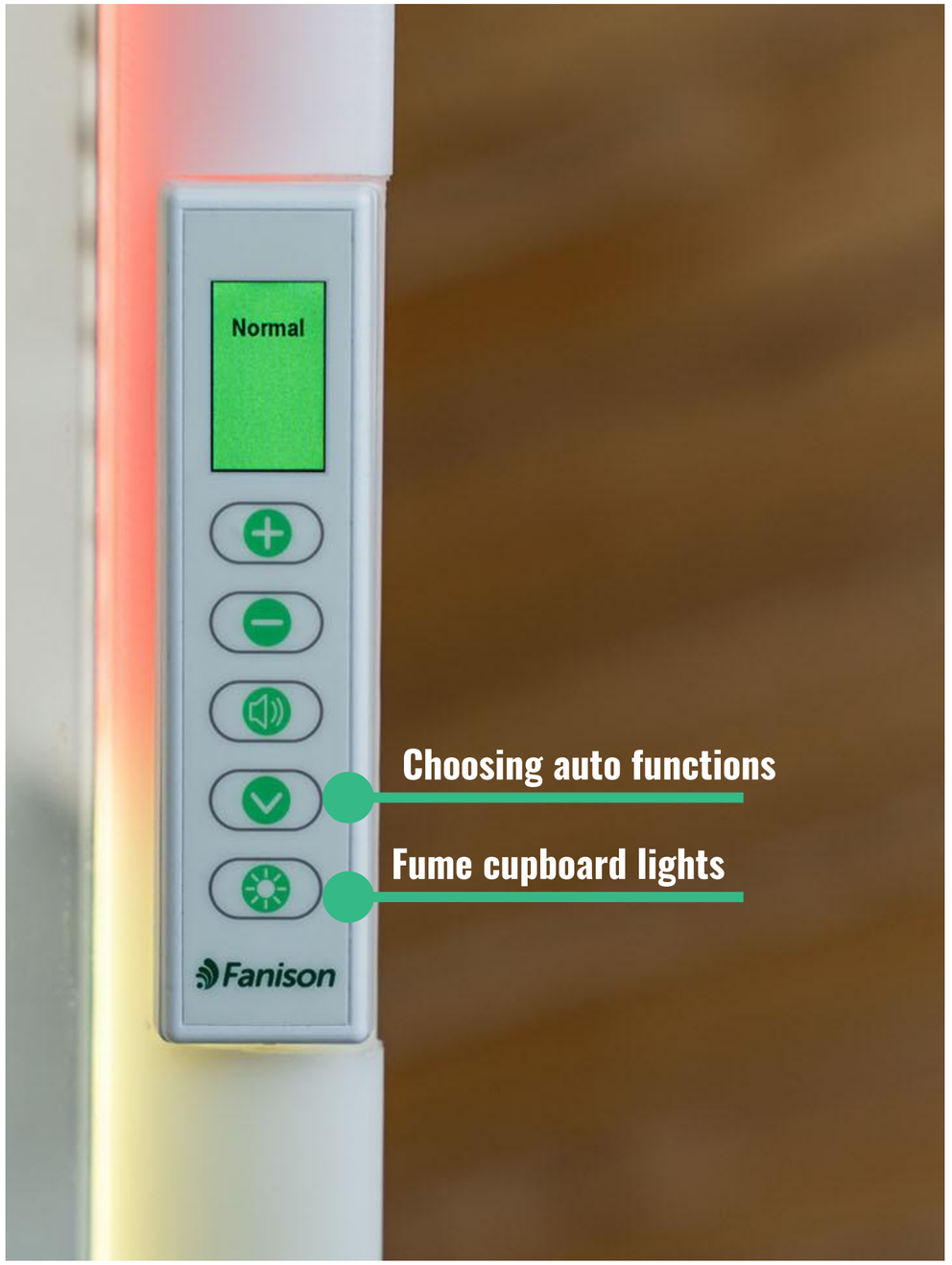


The fume cupboard light – manual operation of the lights.

Short press = turning lights on / off.

Lights on + long press = adjusting the brightness of the lights.

Lights off + long press = switch between the automatic light function and the manual light mode. In automatic mode the function based on the sash's position. When the sash is closed, the light switches off automatically.



TECHNICAL INFORMATION

The tables below show the system parameters and preset values. Due to the safety-critical nature of the system, the user cannot modify the parameters independently. Any changes must be agreed separately and carried out by Fanison Oy.

Airflow modes	**Function**	**Description**
VisualGuide	Green = normal Yellow = caution Red = alarm	Airflow 0,5 m/s and sash max. 30 cm Airflow ≥ 0,4 m/s Airflow < 0,4 m/s
Normal	Normal mode is active by default	Airflow set point is 0,5 m/ sec and alarm 0,4 m /sec. Calibrated on site. Also applicable to Greenline+ 24 version.
Max. air flow	Short press ⊕	Activates maximum airflow / emergency purge. Is not designed for continuous use. Also applicable to Greenline+24 version. Switch back to Normal mode by repeating the action.
Boost	Long press ⊕	Nominal airflow set point ~0,7 m/sec, alarm 0,6 m/sec. Purple side light instead of green. Switch back to Normal mode by repeating the action.
Min. air flow	Short press ⊖	Blinking light red. Text on display: “Min flow, No user protection”. Also applicable to Greenline+24 version. Switch back to Normal mode by repeating the action.
Eco	Long press ⊖	Nominal airflow set point ~0,4 m/sec, alarm 0,3 m/sec. Yellow side light instead of green. Switch back to Normal mode by repeating the action.

Display	Fanison FHI380	Colour display (135 x 240 pixels)
Programmable parameters	**Function**	**Factory setting / min. / max.**
	AutoClose pause, disables the function temporarily	120 min / 1 min / 480 min
	AutoClose start delay	120 sec / 5 sec / 240 sec
	AutoOpen standard heigh	30 cm / 20 cm / 50 cm
	Delay in automatic lowering of the sash	5 sec / 1 sec / 10 sec
	AutoOpen and AutoClose permanently off	PC-setting
	Brightness adjustments	0-100%, adjustable in 5% increments

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