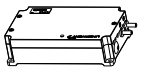
ASSEMBLY ON LAF BENCH: EQUIPMENT

NOTE: Disruptive air movements in the environment where LAFLb is mounted can affect the regulator's ability to measure stably. Therefore, LAFLb is equipped with a hose that allows the reference measurement point to be chosen as favorably as possible.

Included with LAFLb:

1 x



Regulator LAFLb.

2 x

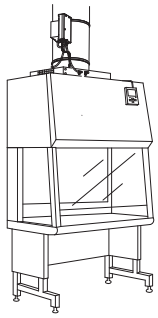
Hose 8x5 (1 m): For connection to push nipple airflow break. For placement of reference point for pressure measurement.

2 x

Velcro straps: For mounting option 1; securing the LAFLb lying on top of the bench.

2 x

Push nipple/ Measurement port TMU: 1 nipple for pressure measurement. 1 nipple for control instrument.



LAF bench with control equipment.

Ordered separately:

1 x

Damper motor DA4

1 x

Circular damper SPM

1 x

Cables: 4-wire FLAQQBR.

For connecting regulators on the loop for power supply and communication.
For connecting peripheral equipment.

1 x

User panel FLOCHECK P

1. OPTION 1: MOUNTING LYING ON THE BENCH

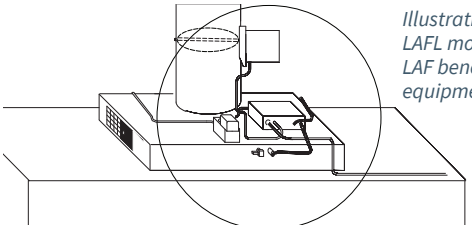


Illustration M1. LAFL mounted lying on the LAF bench with connected equipment.

2. OPTION 2: MONTAGE PÅ SPJÄLLMOTOR

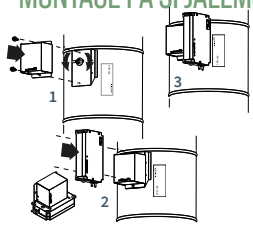
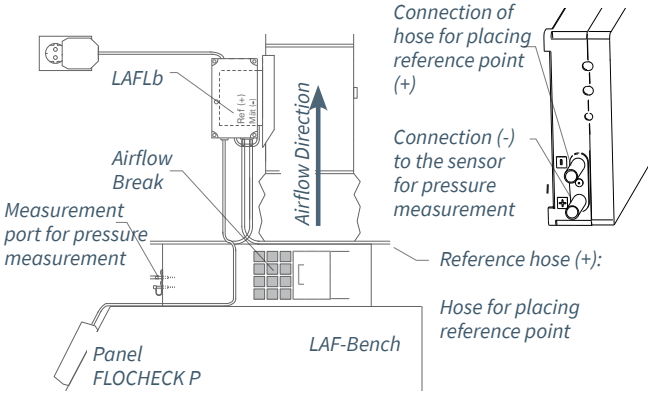


Illustration M2. LAFLb mounted on the damper via damper motor DA4

1. *The damper motor is mounted on the damper via the motor shelf so that the damper pin fits into the damper motor. Ensure that the damper can rotate freely before mounting.*
2. *LAFLb is mounted on the damper motor DA4 by placing it over the tabs on either side of the damper motor cover.*
3. *LAFLb with damper motor on the exhaust duct.*

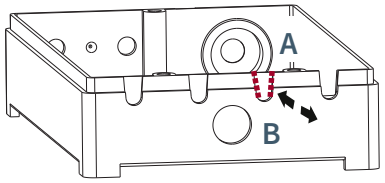
3. MEASUREMENT PORT AND PLACEMENT OF REFERENCE POINT

- The airflow break should be equipped with a measurement port for pressure measurement. Use the included push nipples with an internal cannula tube for stable measurement values.
- Cut the included loose hose (5x8) to the required length to connect a measurement port on the airflow break to the sensor's pressure measurement connection (-).
- The pre-mounted hose for choosing a suitable reference point is clamped with the hose opening facing the wall behind the cabinet.



4. CONNECTIONS

- Connections are made following the external connection diagram for LAFLb: See the inside of the regulator cover.
- The regulator is connected to 24 VAC and the network (CAN) via Lindinvent's standard cable with 2 wires for power supply and 2 wires for communication. Lindinvent's standard cable is also used for connecting presence sensors and several other devices.
- Make openings/ports for each cable: Use wire cutters to open a suitable port for cables according to the illustration below.
- When connecting: Use a bi-wire hose to the shield.
- After connections: Reattach the cover, ensuring it clamps the cables securely for a safe fastening.

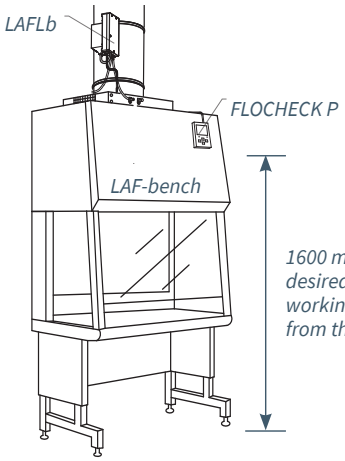


A: Cut x 2
B: Fold back and forth/break off (Cut/clean port with wire cutters)

Illustration 1I. Ports are made according to A and B for cables.

ASSEMBLY

- Determine the appropriate working height from the floor where the panel should be mounted. See illustration M1.
  NOTERA: The distance from FLOCHECK P to the regulator cannot exceed the length of the network cable (usually 2.8 meters).
- FLOCHECK P is typically ordered and mounted on the LAF bench with either exposed cables or hidden cables. See illustration M2.
- For direct wall or panel mounting with through cables, variant FB is used. The fastening to the wall is done via screw holes in the bottom cover. See illustration M3.
- Connect the cable from FLOCHECK P to the K-DISPLAY connector on LAFLb.



NOTE:
Distance from panel to regulator <2800 mm or the length of the cable with any extension.

Illustration M1. FLOCHECK P mounted on LAF bench.

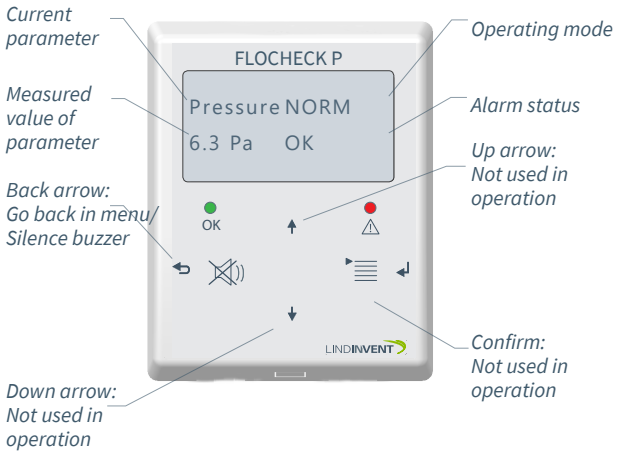
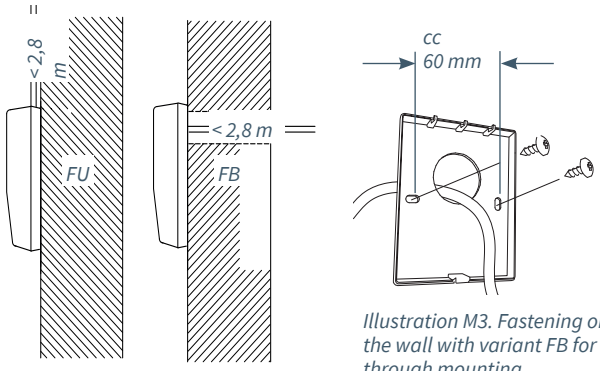


Illustration D1. Overlay to FLOCHECK P with explanations.



FU: Variant for surface mounting of cables

FB: Variant for through mounting of cables

Illustration M3. Fastening on the wall with variant FB for through mounting.

Illustration M2. FLOCHECK P can be ordered with the cable connected on top of the panel (FU) or as a variant with the cable connected through the back (FB).

COMMISSIONING LAFLb

Initial Setup for Commissioning

- The regulator is powered.
- FLOCHECK P is connected to the regulator.
- A description of the actual value display and the complete menu with settings can be found in a separate commissioning instruction for DPL.
  The pressure sensor in DPLb is calibrated at delivery.
  NOTERA: DPLb can also be commissioned via LINDINSIDE.

Commissioning via FLOCHECK P

Log in to LAFLb via the connected FLOCHECK P with code 0819.

Press <Confirm> to activate login. After logging in, the main menu is accessible via <Confirm>. Select the desired menu option in the main menu using <Up arrow> or <Down arrow> followed by <Confirm>. Navigate back in the menu structure by pressing <Back arrow>

Note: The main menu in LAFLb begins with Quick Config. Here, necessary settings from the entire menu structure in LAFLb are gathered for easy commissioning. If no further settings are made, LAFLb will otherwise operate with factory settings.

Quick Configuration Menu

Enter Node ID
Enter Node ID (A unique ID; 1-239 that cannot be 0 and is chosen according to Lindinvent's recommended division of Node ID).

Set Pressure SP
LAFL is delivered with a setpoint of 6 Pa (negative pressure), which can be a suitable level in the airflow break.

Damper Calibration, Perform damper calibration:
Ensure the damper opens fully. Confirm with <Confirm>.
Ensure the damper closes fully. Confirm with <Confirm>.