



FlowBox InstallationsKit 230V
Notes on Use and Installation

Safety information



ATTENTION!

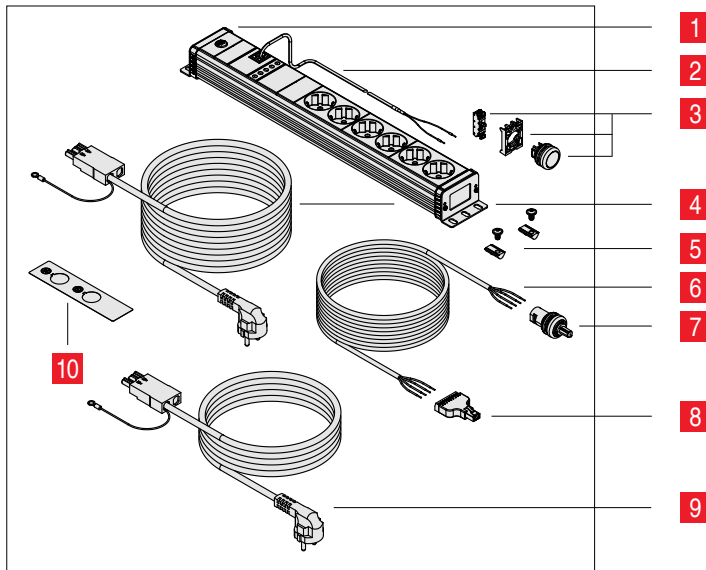
- Do not use outdoors.
- Do not connect the power line to the mains until you can guarantee a safe operation
- The company-internal regulations and the guidelines of the country of use must be observed.
- Unauthorized constructional modifications to the FFU StarterKit 230V are not permitted.
- If you are going to be absent for a longer period of time, switch off the unit or disconnect it from the power supply.
- Assembly, commissioning and electrical installation may only be carried out by trained qualified personnel.
- The FlowBox InstallationsKit 230V may only be operated in the designated areas and power ratings.
- The operator is responsible for proper and safe operation.
- The green-yellow grounding cable on the Filter-Fan-Unit must be screwed tightly to the marked grounding screw.
- When using the FlowBox InstallationsKit 230V, depending on the mounting conditions, it is recommended to connect it to the FFU first before integrating the Fan-Filter-Unit 1200x600 into the system.

FlowBox InstallationsKit 230V - 0.0.715.84

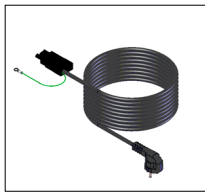
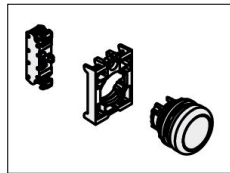
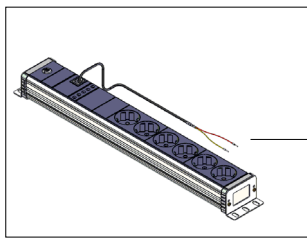
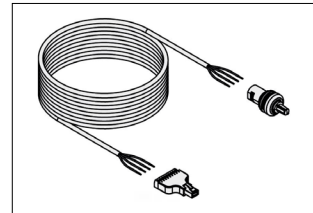
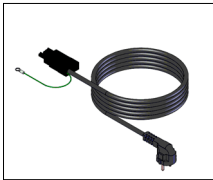
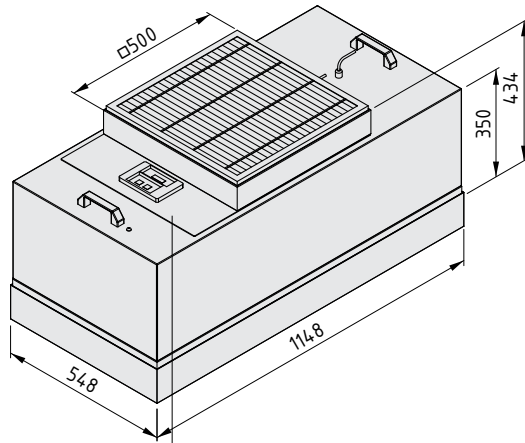


FlowBox InstallationKit 230V (0.0.715.84) includes all the cables and operating elements required for commissioning Filter Fan Unit 1200x600 and regulating it by means of a potentiometer. FlowBox InstallationKit 230V also contains a Multi-Socket Power Strip that can be switched on and off. The Multi-Socket Power Strip can be used not only to switch FFUs on and off centrally, but also lamps or table columns. The pushbutton and potentiometer for regulating the air flow can easily be integrated into a panel element or profile. The decal, which is included in the scope of supply, makes the button clear and easy to use.

Installing and using FlowBox InstallationKit 230V



- 1** Multi-Socket Power Strip, 6 outlet, for external switching 230V
- 2** Connection cable to contact element
- 3** Pushbutton, maintained, 22mm and Mounting adapter for with black Contact Block, 1NO, 22mm, 1,5A
- 4** Connecting Cable, Socket / Earthed Plug with earthing lead 5m
- 5** Assembly material, T-Slot Nut V 8 St M6 ISO 7380 M6x10 (ULF)
- 6** Control Cable 4G0,5mm², 5m
- 7** Potentiometer 22mm, 10kOhm
- 8** Adapter Terminal RJ45
- 9** Connecting Cable, Socket / Earthed Plug with earthing lead 3m
- 10** Decal Control Panel 2x22mm



Connect Connecting Cable, Socket / Earthed Plug with earthing lead 3m **9** and Control Cable 4G 0.5mm², 5m **6** to the connection box of the FFU. Plug the GST 18-3 connector in, securely connect the earthing lead to the labelled earthing screw and plug the Control Cable into either of the two network sockets. The second socket, which is still free, can be used for the series connection of multiple FFUs. Up to ten FFUs can be connected in series and controlled via the output regulator (potentiometer) **7**. Use a standard network cable for series connection (not included in the scope of supply).

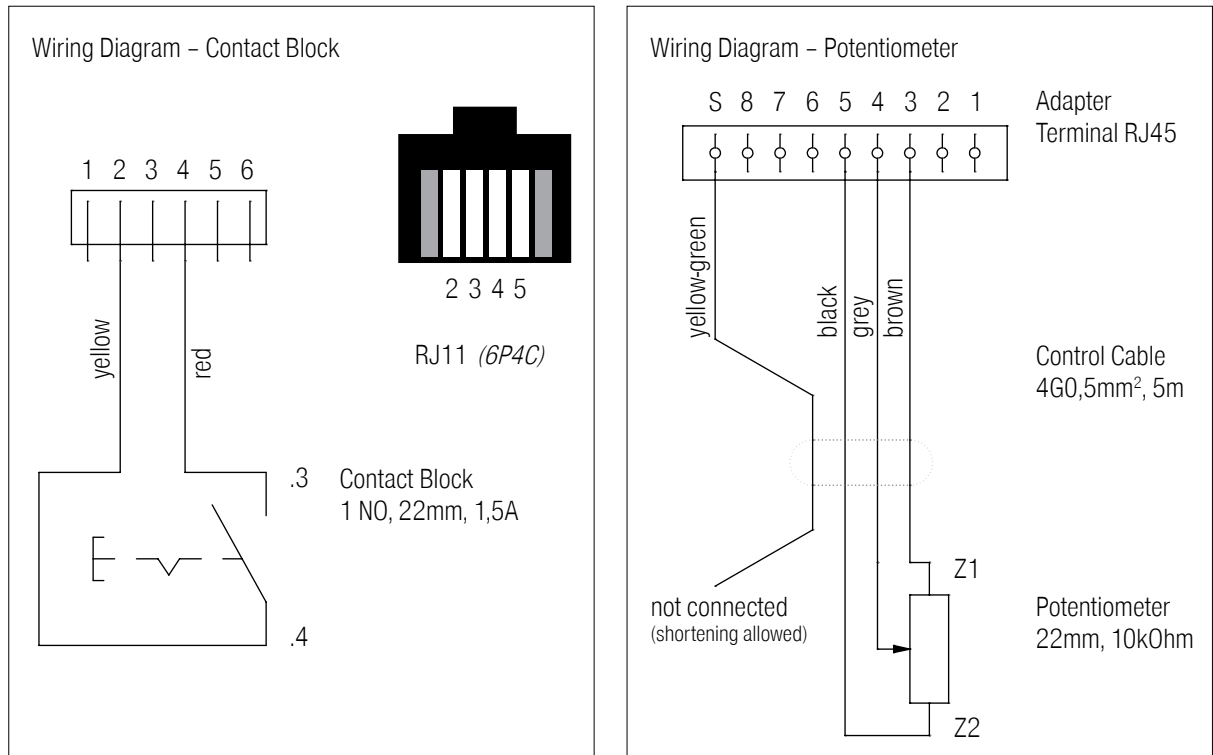


Anschlussbox der FFU mit Erdung!

Next, connect Connecting Cable, Socket / Earthed Plug with earthing lead 3m **9** to the Multi-Socket Power Strip that can be switched on and off, **1** using the earthed plug. Also connect Connecting Cable, Socket / Earthed Plug with earthing lead 5m **4** to the Multi-Socket Power Strip that can be switched on and off, **1** using the Wieland connector. Depending on the regulation and relevant standards, you can also connect the earthing connection of the 5m cable. Do not connect the earthed plug to the mains supply until the end, once the complete installation has been inspected and found to be electrically safe.

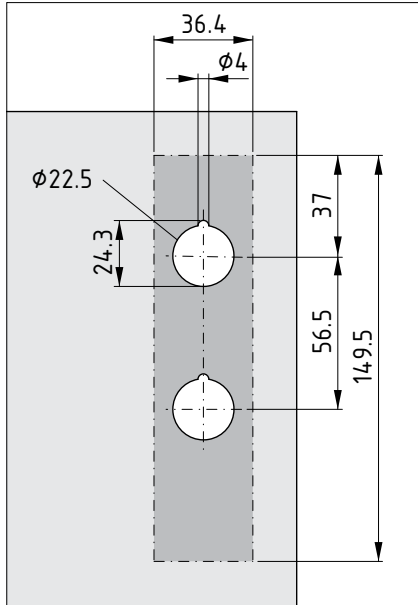
Use the connecting cable **2** to connect the Multi-Socket Power Strip that can be switched on and off **1** to the pushbutton system **3**.

Take note of the circuit diagram of the pushbutton system (Contact Block) and the potentiometer:



To install the pushbutton system on a frame, please see the user guide for the item product in our Online Shop – Pushbutton, 22mm, 0.0.691.50. (Tightening torque: 1.2Nm – 2Nm)

The user can attach the decal **10** to identify the operating elements, as required. The surface or profile is machined according to the drawing.



Plug Control Cable 4G 0.5mm², 5m **6** into the FFU's connection box using adapter terminal RJ45. The adapter terminal must be wired first as shown in the diagram for the potentiometer. The potentiometer is also wired, before being positioned on the frame and fixed in place with a clamping nut (tightening torque 1.2Nm – 2Nm).

The product comes with a fully wired power solution. The connecting cables have a GST 18-3 connector system that connects the Filter Unit to an earthed plug (German domestic standard). Make sure that the pushbutton on the intermediate Multi-Socket Power Strip is switched off.

- If everything is wired correctly, the unit can be switched on by pressing the pushbutton.
- Start or stop the FFU by pressing the pressure switch once. When starting, the FFU is ramped up to the preset value of the potentiometer. When stopping, the speed is regulated to zero. The pressure switch in the stop function does not de-energize the unit.
- The noise level increases significantly at higher outputs. The air flow and of the FFU are reduced significantly at lower outputs (turn potentiometer to the left).
- For continuous operation, we recommend setting the output to 50%. This corresponds, below the FFU, to an approximate air velocity of 0.45m/s, as specified in ISO 14644 for operation in cleanrooms. A regular filter check is recommended, as both the main filter and the pre-filter become clogged over time. In this case, the capacity must be set above the recommended 50% so that the air velocity is still approx. 0.45m/s.

Documentation and development

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