

PFC Control Unit for ECC 700

Safety Instructions



WARNING: Allow only qualified personnel to perform the following tasks. Observe and follow the safety instructions in this document and all other related documentation.

Use

The PFC control unit (*Powder Flow Control*) is used in electrostatic cable coaters *ECC 700*.

The PFC control unit is used to monitor the powder flow to the gun. The powder is guided through a sensor on the way to the gun; the signal from the sensor is evaluated by the control unit.

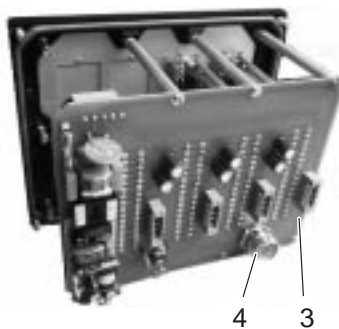
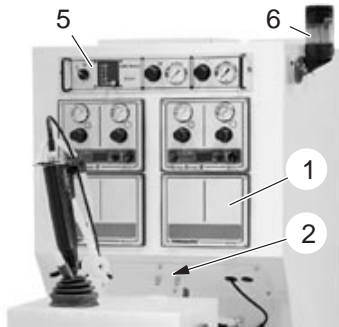


Fig. 1 Slide-in chassis (equipped with two PFC control units), sensor

Installation



WARNING: Risk of electrical shock. Failure to observe may result in personal injury, death, or equipment damage.



1. Switch off cable coater and disconnect from the voltage supply.
2. Remove blind cover (1) from control unit rack.
3. Slide in chassis and screw tightly.

NOTE: Older cable coaters (e.g. *ECC 300*) must first be retrofitted with cable clamps. Refer to page 3.

4. Allow sensors to snap into cable clamps (above pump).
5. Undo powder hose and shorten it, then plug ends into sensor.
6. Plug sensor cable into sensor and guide loose end through a cable fitting (2).
7. Open system (back of unit, top door).
8. Attach included plug to sensor cable.

Litz wire	Pin
Brown	1
Blue	2
Black	3
White	4

9. Insert plug into corresponding socket on the board (3).
10. Connect slide-in chassis to main control module (5) via socket (4) (cable already in electrical cabinet).

Setting PFC Control Unit



After restarting system:

1. Ensure that coating is optimized.
2. Switch off PFC control units of any guns not in use.
3. During operation: Turn the potentiometer until two of the four green LEDs light up. The more powder that flows through the sensor, the more LEDs that light up.

The orange lamp on the indicator beacon (6) lights up when there is not enough powder.

Retrofitting Cable Clamps



CAUTION: When the following steps are performed, metal filings may enter the hopper. The filings must be removed from the hopper, thus the hopper should be emptied before beginning work.

1. Drill two thread holes M4 per sensor in the front plate of the system
2. Remove filings.
3. Seal unused thread holes to prevent impairment of the vacuum in the hopper.

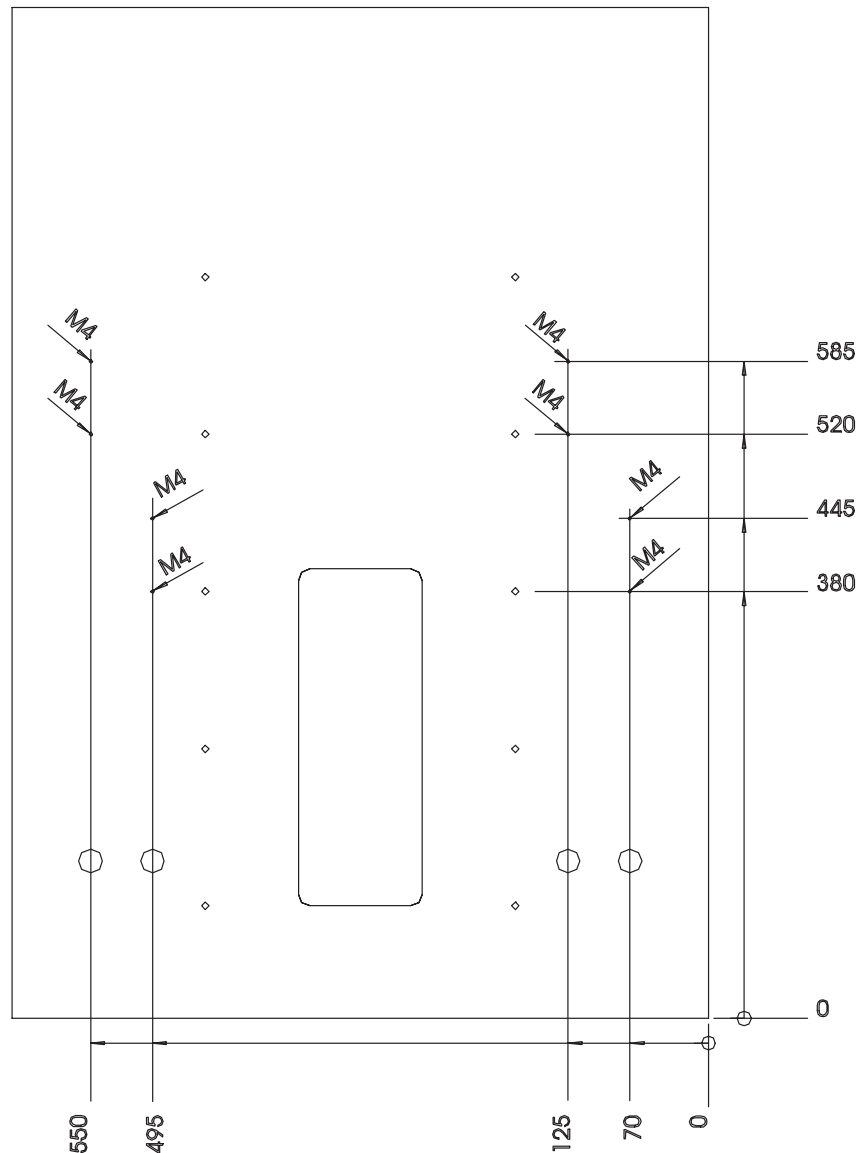


Fig. 2 Front plate

