Field service handbook

Model R-20 circulation pump. Sample document: the table of contents and one cross-reference below were saved before the last round of edits.

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1 Before you start

1.1 Safety

Switch off the supply at the isolator and lock it before you open the case. Wait five minutes for the capacitors to discharge.

1.2 Tools

You need a 10 mm socket, a torque wrench set to 12 N m, a multimeter and the service key supplied with the unit.

2 Installing the unit

2.1 Mounting

Fix the bracket to a solid wall with four M8 anchors, 300 mm above the floor. Hang the unit on the bracket and tighten the two locking bolts.

2.2 Connecting

Connect the supply cable to terminals L, N and earth. Before you switch on, read the codes under 4 Fault codes on page 5: the unit shows one of them if the supply is wired the wrong way round.

3 Maintenance

3.1 Every month

Clean the inlet filter and check the drain for blockages.

3.2 Every year

Replace the inlet filter, check the terminal torque and run the self-test from the service menu.

4 Fault codes

4.1 Supply faults

E1: supply reversed. E2: supply voltage below 200 V. E3: earth not detected.

4.2 Pump faults

E7: pump blocked. E8: dry running. E9: temperature sensor open circuit.

5 Contacts

5.1 Service desk

Call the service desk with the unit's serial number, which is on the label inside the case door.