Manual

SF 300SE/A

Commissioning

1. Attach one end of the hose to the inlet pipe of the filter unit.
2. Attach the other end of the hose to any separately purchased nozzle.
3. Connect the pliers sensor (10, see **Exploded view**) to the ground cable of the welding machine.
4. Set the mode selector (11) to Mode 0.
5. Connect the mains plug to the mains supply.

Your SF 300SE/A is now on standby.

Operation

The filter unit has no off position. It is on standby as soon as the mains plug is connected.

Mode 0 means **automatic operation**, not off.

The mode selector (11) has two modes:

- **Mode 0** (automatic operation): The pliers sensor (10) controls start and stop. The filter unit starts when welding begins and has a run-on time of approx. 15–30 seconds after welding has stopped.
- **Mode 1** (manual): The filter unit starts and runs until the mode selector is set to Mode 0..

When the filter is saturated or clogged, the warning lamp (9) lights up. Shortly afterwards, the filter unit cuts the power to the motors. Change the filter, see **Changing the filter**.

Troubleshooting

TROUBLESHOOTING GUIDE		
Symptom	**Possible cause**	**Action**
The motors switch off a short time after the warning lamp lights up.	The filter is saturated or clogged.	Change the filter (see **Changing the filter**).
The motors switch off unexpectedly before the warning lamp lights up.	The carbon brushes are worn out.	Service required. Contact your retailer.
	The warning lamp is faulty.	
Dirt on the inside of the filter housing.	The sealing strip is incorrectly fitted, or the filter is damaged.	Change the filter (see **Changing the filter**).
	The filter housing and/or spark trap is damaged.	Contact your retailer.

Maintenance

Pull out the mains plug before maintenance. Wait approx. 1 minute so that contaminants can settle.

Maintenance intervals

Filter change: When the warning lamp (9) lights up.
Service: After 1000–1200 hours of operation.

Changing the filter

ALWAYS replace a saturated filter. Do not clean the filter – it damages the filter and causes motor failure.

1. Release the toggle latches (5) and remove the filter gable (4).
2. Lift out the saturated filter (8).
3. **Leakage check:** Inspect the inside of the filter housing (1). Look for dirt. Dirt here indicates a leak. If there is dirt, check that:
   - the sealing strip was correctly fitted on the saturated filter (8). The sealing strip must sit pressed against the edge of the filter and seal between the filter housing and the filter gable (4).
   - the filter is not damaged.
   - the filter housing and spark trap (2, 3) are not damaged. Contact your retailer if there is damage.
4. Clean the spark trap and the inside of the filter housing (if dirty) with a damp disposable cloth and mild detergent.
5. Dispose of the saturated filter and the disposable cloth in accordance with applicable laws and regulations.
6. Insert a new filter. Check that the sealing strip sits pressed against the edge of the filter.
7. Fit the filter gable and close the toggle latches.

Service (by retailer)

Replace the carbon brushes in the motors (18) after 1000–1200 hours of operation. Contact your retailer.

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Decommissioning

Handling and correct disposal of the various materials must comply with applicable statutory requirements. If you have questions about a specific type of waste, contact FUMEX.

Technical information

Technical data

Voltage: .....115 VAC / 230 V 1N~
Frequency:.....50/60 Hz
Motor power:..2 × 1.0 kW
Rated current:.8.5 A
Max vacuum:...21 kPa
Air flow: .....280 m³/h
Filter: .....3-layer filter (pre-, fine- and microfilter), separation efficiency 99.95 % for particles >0.0003 mm.

Item numbers

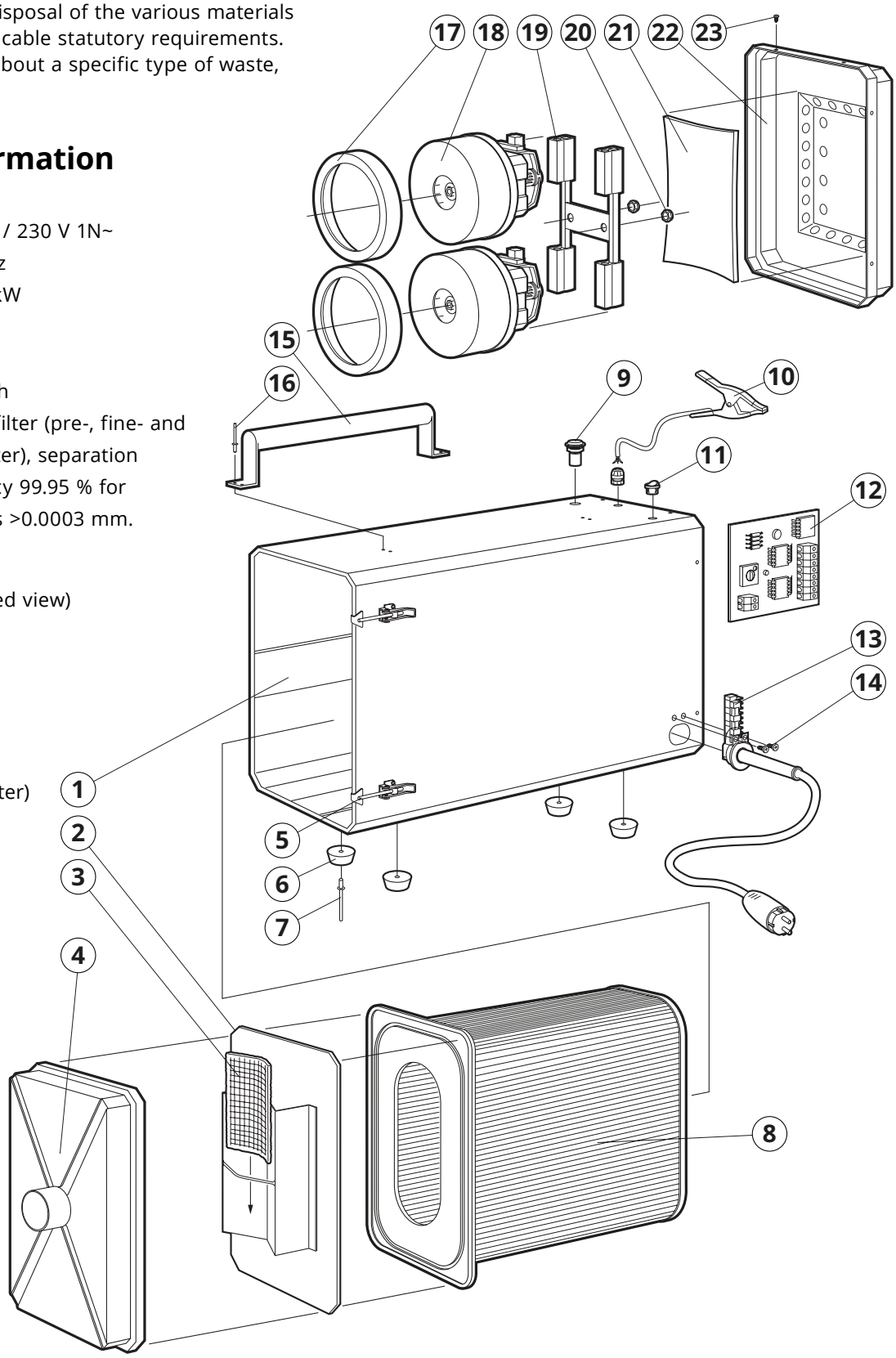
(selection from exploded view)

- **1** Filter housing
- **2, 3** Spark trap
- **4** Filter gable
- **5** Toggle latch
- **8** Filter
- **9** Warning lamp (filter)
- **10** Pliers sensor
- **11** Mode selector
- **18** Motor

Accessories

Carbon filter

Exploded view



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G:a Burträskvägen 48, 931 92 Skellefteå, Sweden • Tel.: +46 910-361 80 • E-mail: info@fumex.se
www.fumex.com