1 Introduction

This publication details replacement of the pump unit contained in the Endura AZ20 reference air pump.

For pump user / safety information, refer to Information publication INF09/027.

The procedure must be carried out by a trained technician.

Identifying the pump unit:

- **Part number AZ200 768 (230 V, 60 Hz)** – see Fig. 1.1
  - The replacement pump unit can be fitted to reference air pump versions – AZ200 770 / AZ200 772 only.

- **Part number AZ200 769 (115 V, 60 Hz)** – see Fig. 1.2
  - The replacement pump unit can be fitted to reference air pump versions – AZ200 771 / AZ200 773 only.

2 Safety

**Warning.**

- Isolate electrical supplies to the system and reference air pump enclosure before replacing the pump unit.
- Isolate the air supply to the reference air pump (part numbers AZ200 770 / AZ200 771 / AZ200 772 / AZ200 773) before replacing the pump unit.
- Observe all relevant health and safety procedures for equipment maintenance.
- Refer to INF09/027 for electrical safety procedures.

3 Tools required

- Small Philips-head screwdriver
- Medium Philips-head screwdriver

4 Disposal

**Warning.** Dispose of the old pump assembly in accordance with the information contained in INF09/027.

Fig. 1.1 Replacement pump unit (230 V, 60 Hz)

Fig. 1.2 Replacement pump unit (115 V, 60 Hz)
5 Pump replacement – AZ200 768 / AZ200 769

Warning.
- Remove all power and air supplies to the system before proceeding with pump replacement.
- Ensure the new pump unit is of the correct voltage by checking that the voltage rating on the new pump unit’s voltage label matches the voltage rating on the pump enclosure label – see Figs. 1.1 and 1.2, page 1.

Referring to Fig. 5.1:
1. Unscrew, remove and retain the 4 reference air pump cover retaining screws and washers A and remove enclosure cover B.
2. Disconnect the neutral (blue / right) and live (brown / left) connections C from the pump unit.
3. Unscrew, remove and retain the 3 screws and lockwashers D that attach the pump mounting plate to the pump enclosure.
4. Carefully pull the pump mounting plate away from the enclosure taking care not to stretch the incoming airline or disturb the filter.
5. Carefully remove the 2 air tubes E from the pump unit (air in = left connection, air out = right connection).
6. Tilt the pump mounting plate forward to access the 2 pump unit retaining bolts F at the rear of the pump mounting plate.
7. Unscrew, remove and retain the 2 pump unit retaining bolts and lock washers F at the rear of the pump mounting plate and discard the old pump unit.
8. Check that the voltage rating on the new pump unit’s voltage label G matches the voltage rating on the pump enclosure label H.
9. Remove the 2 dust covers I from the new pump unit J and fit the new pump unit to the pump mounting plate using the 2 pump unit retaining bolts retained at step 7.
10. Refit the 2 air tubes E to the new pump unit ensuring tubes are fitted correctly for the direction of flow (an arrow on the air filter indicates direction of incoming air).
11. Place the pump mounting plate in the correct position within the enclosure and refit the 3 pump mounting plate screws and lockwashers D.
12. Connect the neutral (blue / right) and live (brown / left) connections C to the pump unit connections.
13. Refit the enclosure cover B using the 4 reference air pump cover retaining screws and washers A retained at step 1, ensuring the enclosure cover seal is located correctly in its groove.
Fig. 5.1 Replacing the AZ20 reference air pump unit