

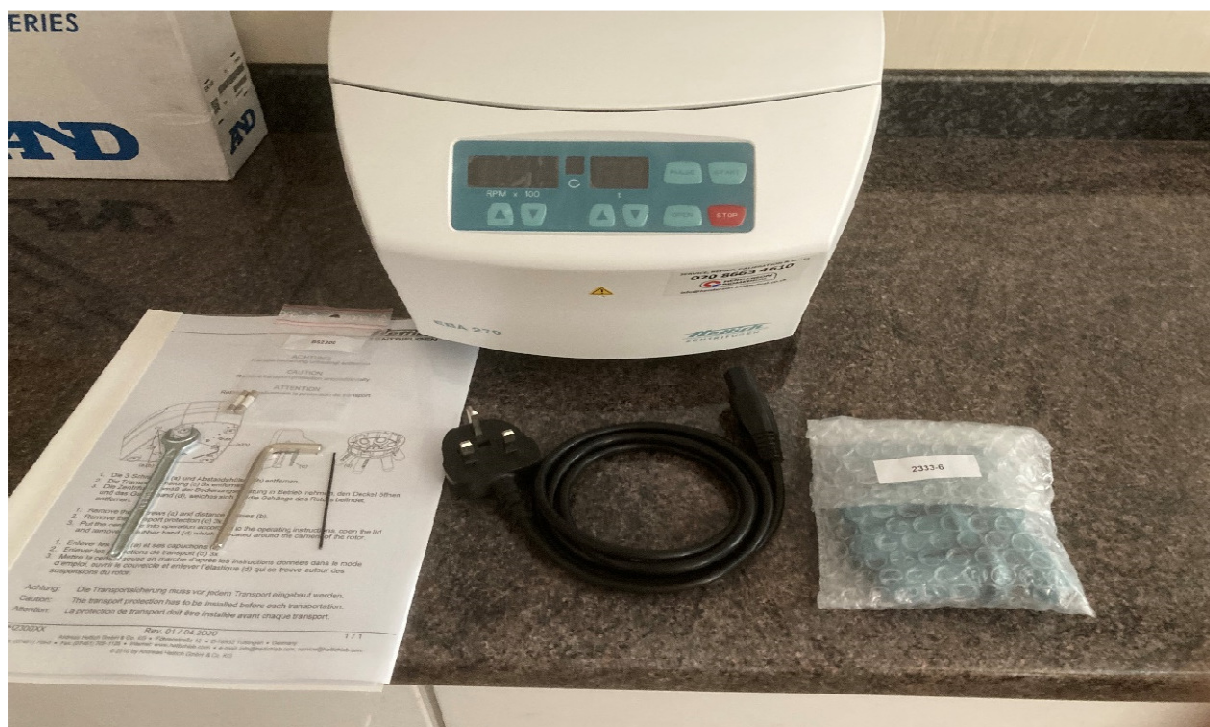
# EBA270 Bloods Centrifuge

## Unpacking:

Please unpack the EBA270 and retain all the packing components (fitted back in its box).

Having unpacked your Hettich centrifuge, you will see that it is well made; they are robust. However, retaining the packaging is simply good laboratory practice. As with all things electro-mechanical, your EBA270 comes with a warranty. This is to cater for any unforeseen component failure.

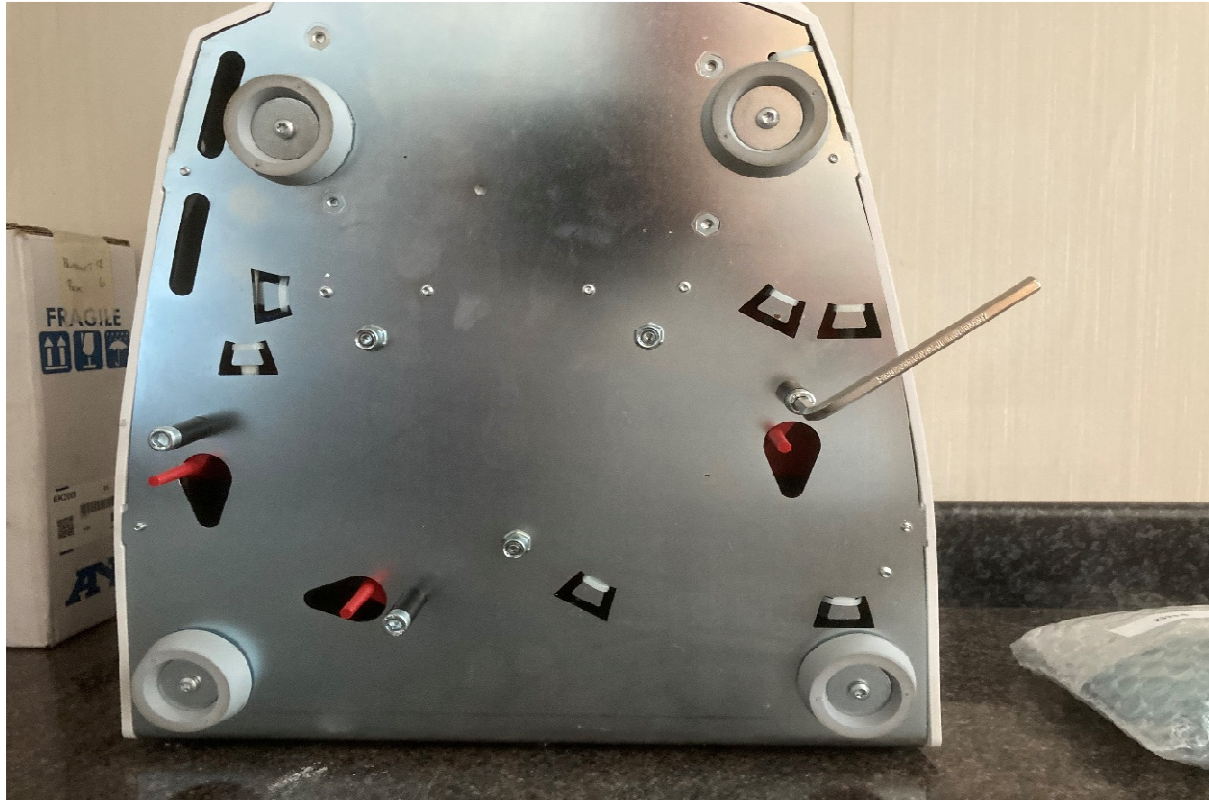
Although unlikely, if something does happen within the guarantee period, your EBA270 may need to be posted back to the UK service centre. This **MUST** be done with the transport brackets replaced and better still with the unit repacked as it arrived.





## Removal of transport brackets

The transport brackets prevent the EBA270 being level. As detailed on the front page of the instructions, carefully tip the centrifuge on its back to expose the base. Using the hex key, undo each bolt in turn being sure to **HOLD THE ADJACENT RED PLASTIC PILLAR**. When the locking bolt has been removed, the red plastic pillar can be pulled clear from inside the centrifuge. If the red plastic pillar slips out of your fingers it will fall into the insides of the centrifuge. It is possible to retrieve it but it is not very easy. Retaining it is the better way to go.





### **Other items included:**

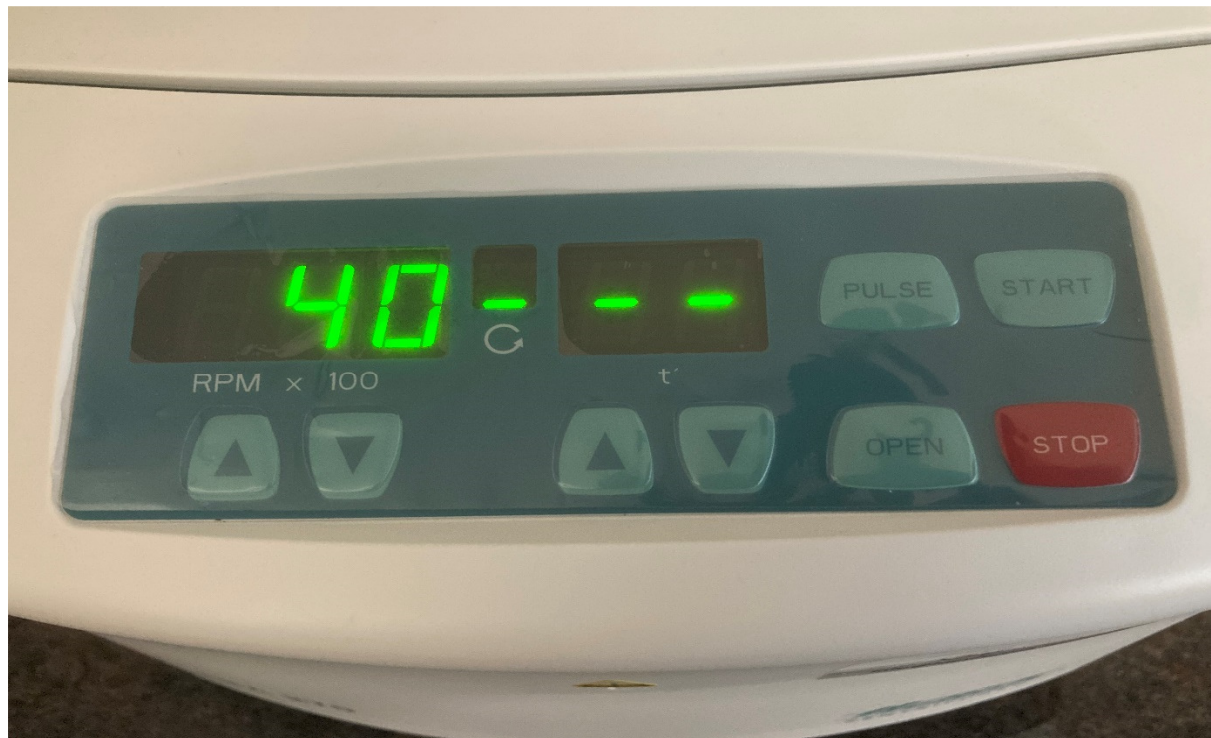
1. Spanner: never/occasional use. This is needed to remove the rotor plate.
2. Fuses: these are spare parts. Not required on day one.
3. Metal pin: this is used to manually trigger the lid release to rescue patient samples e.g. if there is a power failure on site.

### **Operation:**

Set the EBA270 on its feet on a level surface, plug the IEC lead into the centrifuge and mains socket and switch the unit on.



Press "OPEN"



Remove and retain the elastic band.



**Please read the instruction book. The following notes are additional.**



## Loading

The EBA270 needs to be balanced across the rotor. Two tubes would be e.g. north-south. Four tubes would be loaded as an "X". Six tubes will fill the centrifuge. Three tubes can only be arranged as a triskele (see page 38 in the instruction book). It is not possible to spin a single tube nor a set of five tubes. The following four pictures detail the only formats that are balanced.

Two tubes ☒:



Three tubes ☒:





Four tubes ☒:



Six tubes ☒:





**Incorrect loading:** ALL the following are out of balance so will trigger the sensor:

One tube ☒:



Two tubes ☒:





Three tubes ☒:



Three tubes ☒:






Four tubes ☒:



Four tubes ☒:





Five tubes :



### **Balancing tubes:**

The EBA270 has an out of balance sensor. This will stop the centrifuge spinning. A need may arise to deal with a single sample or five samples. In order to run your EBA270 without triggering its out of balance sensor, a balancing tube will be needed. Using the appropriate smaller or larger empty tube:





Remove the top and fill with water to the same height as the sample:




Replace the cap:



Put the appropriate blank tube in the carrier opposite the sample tube. Run the centrifuge.

N.B. Coloured water has been used to aid photographic visualisation.

With reference to the instruction book, Hettich confirm small and large carriers should not be mixed. The EBA270 must be equipped with either all 6 x 2331 taller tube holders or all 6 x 2333 shorter tube holders. If the EBA270 is fitted with the six smaller 2333 carriers, do not try to spin tall tubes. **As can be seen from the following picture, these tall tubes will be crushed against each other leading to them rupturing.** The consequent loss of any patient samples and the need to decontaminate the centrifuge should be avoided.

**Taller tubes in the shorter holders** :





### **Programme selection, spinning samples:**

The EBA270 controls are straightforward.

OPEN: the lid release switch to enable sample tubes (balanced) to be put into or removed from the centrifuge.

SPIN (RPM x 100): this is factory set to the maximum 4,000 rpm. It can be changed if required using the up and down toggle buttons.

TIME (t): this needs to be set to the specified time in minutes using the up and down toggle buttons.

START: sets the centrifuge running.

STOP: this switch will stop the current programme. To resume, TIME will need to be reset.

PULSE: The EBA270 will spin at the set speed until this button is released.

The central display between RPM and time displays indicates the centrifuge is running. This can be helpful if the EBA270 is operating in a noisy environment.



**For further advice please contact: Richard Pryce (07398 122390  
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