esARC Option Note

FHU: Fume Hood Unit

The Fume Hood Unit comprises:

- The extractor: mounted within the lid of the ARC-ES unit, incorporates a back draught shutter allowing the ARC-ES to be incorporated into a building's fume extraction network. It protrudes by 25 mm from the lid, and allows the user to connect to 300 mm circular draughting ducts (fixed or flexible).

- The air-shield: mounted on the inner side of the blast box door. It can be easily attached and removed to allow easier access to the calorimeter and blast chamber. Typically this would be used when the user is releasing a vapour/gas from the test. This can also be used with the cryogenic system unit (CSU) although an Extractor Isolation Unit is required (contact THT for more info).

The Fume Hood Unit is an option, only for the esARC, which provides extraction performance equal to that of a fume cabinet.

This option can be pre-built into a new esARC or can be fitted on-site by a THT trained engineer. Figure 1 shows the air-shield fitted to the chamber. Figure 2 shows the extractor fan.

The Fan Unit allows extraction that has the ability to replace the volume of the containment vessel 120 times per minute. This air-flow extraction compatibility meets standards that exist for Fume Cupboard specifications.

A flow rate of 31m³/min is maintained.

NOTE: The OSU must be purchased with this option