esARC Option Note

GSS: Gas Scrubbing System

The Gas Scrubbing System comprises:
- Remotely operated, actuator controlled ball, valve
- Manual valves, pipework and additional hardware
- Scrubber bath with 50ml reservoir cylinder as standard

The gas scrubbing system is a purpose designed option for the THT ARC to allow safe venting and neutralisation of gaseous reaction products and also to facilitate the collection of gaseous reaction products.

During normal operation, the GSS is software activated at the end of the run once the system has cooled below 120°C.

Figure 2 shows the pressure line setup. One end of the T-piece is connected to the pressure line while the other connection goes to the GSS system. The scrubber bath is filled with a user defined sample. Usually carbon based, such as charcoal.

As you can see from figure 3 the GSS can also be fitted to the EV ARC system. The system can be retro fitted to an existing system but a different software version will be required.

The scrubbing bath can be fitted with an appropriate liquid or solid absorbent as decided by the user (Fig. 4).

It would be advisable to clean the system and pipe work after every test and to ensure the fume extraction system is fully connected.

NOTE: The OSU must be purchased with this option