The System Sampling Unit (SSU)

THT product code = ARCSYS-SSU

The System Sampling Unit comprises:

- Automated Valve Assembly
- 4 sample collection vessels and tubing
- Integral vacuum pump
- Integrated support electronics and software for operation

The System Sampling Unit (SSU) is a purpose designed option for the THT ARC that allows automated collections of up to 4 samples of gas from the sample under test.

Sampling can be carried out under various triggers as defined in the integrated control software.

Fig. 1

Four sampling cylinders are provided with the unit, 3 off 10ml and 1 off 25ml capacity.

The system has the capability to evacuate the pressure line between sampling, to avoid carry over of gas.

Samples are automatically collected when certain triggers are activated. These triggers are set up in the control software and can be on a basis of temperature, pressure, time, temperature change, pressure change and on the onset of exotherm. Collection can also occur when the test finishes or when the system reaches idle mode.

Fig.1 shows the valve and cylinders inside an esARC.
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Fig. 2 shows the SSU set-up inside the EV blast box.

As shown, the SSU is available for both the es and EV ARC systems. It can be retrofitted into current systems.

Software

The SSU software is an integrated part of the esARC control software. As with other options from THT, the SSU software control is enabled in the options section (Fig.4) and is viewed from the auxiliary tab (Fig.3).

The auxiliary screen (fig.3) displays the two control actuator valves along with the indicator lamps for the vacuum pump and gas supply. The SSU operation can also be edited, during the test, from the ‘Edit test parameters’ button.

For further information please contact THT directly.

Note: The OSU must be purchased with this option.