The Vent Sizing Unit comprises:
- ARCSYS-VSU and ARCSYS-ASU combined
- 2 Low Phi Sample containers
- 2 Low Phi Sample Containers

This option allows for all DIERS defined vent sizing tests to be carried out in the THT ARC, with stirring. The VSU+ combines the VSU and the ASU i.e. the functionality needed for vent sizing with stirring.

The VSU+ operates as an integrated unit, automatically controlled from the THT system PC, allowing for low phi closed cell vent sizing tests, tempering tests and hydrodynamic blow down tests.

The VSU+ combines both the VSU and ASU options. See individual Option Note for more information.

The tests carried out with the VSU+ characterise the potential of a system to temper and also to get information on hydrodynamic flow.

They are carried out at low phi and sometimes with additional void volume and an in line special ‘blow down’ vessel to give as good a set of information as possible on relief vent size.
The information needed would depend upon the calculation method to be used.

This option includes a purpose designed hardware and additional hardware (Fig. 4) - Burst Disk Assembly, Pressure transducer, High Volume Cylinder and Blow-down Vessel (Fig. 1 & 2) all with appropriate tubing that are required to allow the specific test protocols to be carried out.

In addition the control software (Fig. 3) is specific for this option and must be that configured for the VSU option to allow vent size experimentation to be carried out.

**Example: Tempering test**

![Fig.4](image)

**NOTE:** The OSU must be purchased with this option