Side Branch Kit (SBK)

THT product code = ARCSYS-SBK

The Side Branch Kit comprises:

- 5 x Stainless steel (sealed end) tube bombs
- 5 x Nut and Ferrule Set
- 2 x Low volume side branch tubes
- Pressure transducer coupling for low volume side branch tube connector
- Stainless steel internal fitting (throne) supplied with insulation block that can be cut to specific size and shape
- 2 x Associated caps
- Ancillary Items

Fig. 1
The use of the esARC for small samples and samples that may exhibit reflux or condensation is made easier with this kit. The side branch tube essentially eliminates reflux and condensation which are a potential form of heat loss.

The side branch tube, unlike the standard pressure through tube, comes through the side of the calorimeter. This connects directly to the pressure transducer and with the use of silicone oil, almost all void volume is eliminated.

Side branch tubes are available in four types from THT. They may have the connection suitable for a ¼” or 1/8” neck bomb and the exit side branch tube may be 1/8” with 0.027” internal diameter or 1/16” with 0.010” internal diameter. The tube length is 8 inches.

This simple solution is the only solution which will truly eliminate reflux and the cost of the kit is 100 times less than the cost of using tube heaters.

This kit comes with an internal fitting throne which allows the user to take thermal measurements from the tube bomb without taking pressure data.

This kit is ideal for users who wish to test battery components. Using their own glove box, samples can be easily situated in the tube bombs and connected to the side branch tube in an oxygen free environment (Figure 2).

Fig. 2