Condensyn User Guide

(Waterless Condensers)

- Utilising these waterless condensers can save the KCL over 1.5 million litres of water per year!
- Effective condensing is achieved through increased surface area combined with thicker glass

Warnings and Guidance

- 2 units may be stacked on top of each other for longer term critical low loss experiments

- They are fragile – please use carefully and report any breakage to your local Safety Officer

-They come with two neck sizes – B19 and B24. Seek appropriate adapters if necessary

-Take caution after usage to not burn yourself as they can become hot

- It is recommended that to prevent breakthrough when using solvents of below 60 C boiling point that the heating bath/block temperature differential is kept below 10 C, e.g. for dichloromethane (bp 40 C) the heating bath/block temperature should not exceed 50 C. For diethyl ether this differential should be no more than 4 C

200mm CondenSyn is for reactions of 50ml and below

350mm CondenSyn is for reactions of 500ml and below

420mm CondenSyn is for reactions of 1000ml and below

- Note that a reactions that uses a combination of a solvent with a low boiling point and a low volume / long heating time, may be more suited to water-cooled condensers. Seek guidance if unsure

For assistance or advice contact martin.farley@kcl.ac.uk, H&S safety@kcl.ac.uk, or your local resource managers. For any leaks or facilities issues contact the service desk: ask@kcl.ac.uk or 020 7848 3456