



PRESS RELEASE

Report Demonstrates High Operational Safety & Costs Savings of Air Condenser

Asynt reports on an **independent evaluation**, from a leading UK university, detailing the performance of the **CondensSyn MINI air condenser** for safe use in their research and teaching laboratories.

Scientists worldwide are increasingly concerned about the safety, cost and indeed the environmental impact of running their laboratories. For synthetic experiments a reflux condenser is often required and is therefore an essential tool for both research and teaching chemistry. Condensers cooled by a circulating fluid such as water are effective and widely used, however they are often operated directly with tap water which creates an environmental and cost issue. The use of an Asynt CondensSyn air condenser negates the need for any recirculating coolant during standard reflux conditions.

A series of reflux experiments were undertaken using 25ml of a range of different common solvents in a 100ml 2-neck round bottom flask. Fitted to the flask were an internal thermometer and a standard 200mm long CondensSyn MINI air condenser. Reported results demonstrate minimal loss of solvent ranging from water (0.025% / hour) to dichloromethane (0.85% / hour). Asynt also offer a variety of different length CondensSyn to suit larger capacity flasks.

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Based upon the average consumption of water by a Liebig condenser (2 litres / minute), at a standard cost of £1.00 /m³ supplied and £1.10/m³ waste, the authors of the report show that using a single CondensSyn MINI air condenser can save £300 - £1450 / year**.

Just 20cm long and fitted with either B14, B19 or B24 adapter as standard – the CondensSyn MINI provides comparable vapour condensing performance to a Liebig water condenser but advantageously requires no cooling water for operation. Proven in over 1000 installations worldwide, the Asynt CondensSyn air condenser is an affordable high-surface-area air condenser which is both safe and operationally effective. The CondensSyn's robust design uses a new borosilicate glass manufacturing technique and this, together with a proprietary multiple hyperbolic profile, ensures optimum heat removal as vapours pass along its length. CondensSyn additionally incorporates a non-roll feature to help prevent accidents if left on a lab bench. Offering clear visibility of ongoing experimental reflux, the Asynt CondensSyn is also easy to clean and maintain.

For a copy of the report please visit <http://www.asynt.com/product/asynt-condensyn-mini/>. For further information on the CondensSyn MINI please contact Asynt on +44-1638-781709 / enquiries@asynt.com.

Asynt is a leading supplier of affordable products, consumables and services for chemists in industry and academia. With staff of trained chemists - Asynt is able to draw upon this in-depth applications knowledge to provide a high level of customer support for its DrySyn Heating Blocks, Controlled Lab Reactors, Synthesis Tools, Evaporators, Circulators, Temperature Control Systems, Vacuum Pumps and Laboratory Safety Equipment.

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** Calculation based upon 5 hours or 24 hours use / day on working days only.

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Illustrative image: (image available on request)



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