

Air Condenser Improves Sustainability for Chemistry Laboratories

Asynt reports on how chemistry labs, seeking to minimise water wastage, are electing to replace Liebig-style water condensers with their **CondensSyn waterless air condenser**, for both reflux and distillation reactions.

Synthetic experiments

often include reflux and distillation steps, making a reflux condenser an essential tool for both research and teaching chemistry. Traditional condensers, cooled by a circulating fluid, are effective and widely used, however they are often operated directly with tap water.



Images: A: CondensSyn in reflux

mode B: CondensSyn in distillation mode

This not only creates an environmental and cost issue but also increases the risk of a laboratory flood. The use of an Asynt CondensSyn air condenser negates the need for any recirculating coolant during standard reflux and distillation conditions, saving time, money and water.

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Dr Ffion McKeague - Technology Manager at Asynt commented

"Our CondenSyn waterless condensers are rapidly becoming a necessity in laboratories all over the world, driven by their ease of use and massive associated water savings benefits compared to using traditional water condensers". She added "Not only has the CondenSyn proved itself as a sustainable alternative for reflux reactions but increasingly also for distillation experiments using the **CondenSyn Distillation Adapter**.

A typical Chemistry laboratory replacing their standard water condensers with CondenSyn units can expect to see a return on its investment in as little as 6 months".

The CondenSyn waterless air condenser's

unique design uses a special borosilicate glass manufacturing technique and this, together with a proprietary multiple hyperbolic profile, ensures optimum heat removal as vapors pass along its length. Offering clear visibility of ongoing experimental reflux, the Asynt CondenSyn is also easy to clean and maintain, whilst the incorporation of a non-roll feature helps prevent accidents if left on a lab bench. Asynt offers a range of CondenSyn to optimally suit different capacity round bottom flasks.

For further information

on CondenSyn please visit <https://www.asynt.com/product/asynt-condensyn-air-condenser/> or contact Asynt on +44-1638-781709 / enquiries@asynt.com.

Asynt Ltd.

Asynt is a leading supplier of affordable products, consumables and services for chemists in industry and academia. With staff of trained chemists - Asynt can 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 Lab Safety Equipment.

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