



PRESS RELEASE

California University Lab Moves to Reduce Water Usage

Asynt reports how the implementation of CondenSyn waterless air condensers throughout the teaching labs at the Department of Chemistry at the College of the Sequoias (Visalia, CA) benefits the wider community whilst providing outstanding performance for their students.

Due to ongoing water shortages, California water officials recently had no alternative but to impose new drought rules throughout the state to discourage wasteful water practices.

Whilst unaffected by the new regulations, scientists at the College of the Sequoias were prompted to test an alternative waterless condenser from Asynt, the CondenSyn. The CondenSyn proved to be the perfect alternative to traditional water condensers previously used for reflux reactions.

The colleges proactive investment in 22 CondenSyn waterless condensers has already drastically reduced water usage by the Department of Chemistry and eliminated the risk of lab flooding accidents that are a potentially costly drawback of using water condensers and something that can be difficult to avoid.

Andrea Smith, a chemistry lab technician at the College of the Sequoias, commented "Our area (the central valley of California) has been in drought-like conditions for quite a few years. Households and businesses are under severe water restrictions, having had to reduce water

Asynt Ltd

Unit 29 Hall Barn Road Industrial Estate Isleham Cambridgeshire United Kingdom CB7 5RJ
T: +44 (0)1638 781709 F: +44(0)1638 781706 enquiries@asynt.com www.asynt.com



consumption yearly. While the college wasn't under the same restrictions, it only made sense that we should also strive to reduce our water usage/waste. It was laboratory supply company – Quark Glass - who suggested that the Asynt CondensSyn waterless condensers offered us an elegant eco-friendly but effective alternative to water-cooled condensers.” She added “We are currently using the CondensSyn waterless condensers for our teaching labs that require students to perform reflux reactions in water, methanol, or ethanol. This semester, we will use them in the preparation of methyl salicylate/oil of wintergreen (an esterification using salicylic acid and sulfuric acid refluxed in methanol), and the preparation of the analgesic benzocaine, another esterification using p-aminobenzoic acid and sulfuric acid in ethanol.”

Not only are the CondensSyn waterless condensers making the labs more eco-friendly, but they are also saving money as the department's rate of water consumption has been reduced dramatically. For example, with every single overnight reflux run, a lab can save almost 3,000L of water – times that by 20 students and it's around a staggering 60,000L. “Our students have found the CondensSyn units to be easy to use as there are no water connections to make, we can use them open to atmosphere, and the 19/22 ground glass joints are perfect for our round bottom flasks”.

For further information on CondensSyn waterless condensers please visit www.asynt.com/products/benchtop-synthesis-tools/condensyn-air-condensers/, or in the USA contact Quark Glass on 800 955 0376 / sales@quarkglass.com.

The Department of Chemistry at the College of the Sequoias (<https://www.cos.edu/en-us/academics/science/chemistry>) educates students in both inorganic and organic chemistry. Graduates of College of the Sequoias Chemistry Department have successfully established themselves as leaders in the fields of health, education, industry, and government.

Asynt is a leading supplier of chemistry equipment for scientists in industry and academia. With a sales team of trained chemists, Asynt draw upon their in-depth application knowledge to

Asynt Ltd

Unit 29 Hall Barn Road Industrial Estate Isleham Cambridgeshire United Kingdom CB7 5RJ
T: +44 (0)1638 781709 F: +44(0)1638 781706 enquiries@asynt.com www.asynt.com

Registration No: 5160407

VAT No: GB 838 5592 82

provide a high-level of customer support for its oil-free DrySyn Heating Blocks, CondensSyn waterless condensers, turn-key & bespoke solutions for Controlled Lab Reactors, Flow Chemistry apparatus, Photochemistry systems, Synthesis Tools, Evaporators, Temperature Control Systems, Vacuum Pumps and Lab Safety Equipment plus more.

APRIL 2022

asyntpr132.doc

Illustrative images:



Caption: Margarete Teo, a student in the teaching labs at the College of the Sequoias (Visalia, CA) using the CondensSyn waterless condenser

Asynt Ltd

Unit 29 Hall Barn Road Industrial Estate Isleham Cambridgeshire United Kingdom CB7 5RJ
T: +44 (0)1638 781709 F: +44(0)1638 781706 enquiries@asynt.com www.asynt.com



Caption: CondenSyn waterless condensers in parallel on DrySyn oil-free heating block platform

For more information please contact:

Media: Dr Bill Bradbury +44-208-546-0869 / info@primetek-solutions.com

Asynt Ltd

Unit 29 Hall Barn Road Industrial Estate Isleham Cambridgeshire United Kingdom CB7 5RJ
T: +44 (0)1638 781709 F: +44(0)1638 781706 enquiries@asynt.com www.asynt.com

Registration No: 5160407

VAT No: GB 838 5592 82