

Customer Case Study



From intern to lab lead

How Northeastern University London is building sustainable teaching lab practice with Asynt CondensSyn® and the CondensSyn Distillation Adapter

CUSTOMER	PRODUCT	APPLICATION
Northeastern University London	<u>CondensSyn and Distillation Adapter</u>	Waterless condensing and distillation

THE CHALLENGE

Daniela Brandao de Ceita (Dani), CoMENS Faculty Chemistry Technician and holder of an MRes in Organic Chemistry and Drug Discovery, runs the 1st year chemistry teaching lab at Northeastern University London. She is overhauling the lab, its practicals and its working practices while building the first year chemistry course, with second, third and fourth year students to follow. She needed equipment that would make practicals safer and more sustainable from the start.

THE SOLUTION

The lab has been set up with the CondensSyn® waterless air condenser and the CondensSyn Distillation Adapter. The adapter allows CondensSyn to be used in a vertical orientation for distillation, so the same waterless approach covers distillation practicals as well as condensing.

THE OUTCOME

CondensSyn reduces water waste and the risk of flooding compared with a traditional water condenser, which matters in a teaching lab where many students work at once. It also enables the lab to remain clear of daisy-chain water tubing which presents trip hazards in addition to where it's situated in the fume cupboard.

KEY BENEFITS

- Waterless condensing with no running water needed
- Less water waste than a water condenser
- Lower risk of flooding in a busy teaching lab
- Distillation practicals with the Distillation Adapter
- Sustainable practice built-in from day one



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Customer Case Study (continued)



"An easy, practical way to set up condensing or distillation, while saving money & reducing water-waste."

Daniela Brandao de Ceita, Northeastern University London

A ROLE WITH REAL SCOPE

A chemistry degree opens more doors than many graduates realise. Dani started her technical career while still an undergraduate, as an intern in her third year, and went on to become a technician full time. She later left to complete an MRes in Organic Chemistry and Drug Discovery, then returned to the technical profession. That path has led her to running an entire teaching laboratory and shaping how future chemists learn. Northeastern University is based in the USA, and its chemistry students can now spend a year studying in London in this new teaching lab. Her work shows that the technician role brings responsibility, creativity and real influence over how chemistry is taught.

SUSTAINABLE PRACTICE FROM DAY ONE

Because Dani is shaping the lab as it grows, she can build safer, more sustainable methods into the practicals from the start rather than adapting them later. Choosing waterless condensing for the lab from the outset means students learn sustainable habits as standard.

WHAT COMES NEXT

DrySyn® is next on the horizon. Dani plans to use the DrySyn MULTI-E system, which fits any standard hotplate stirrer and allows three flask or vial inserts to be used in parallel, safely and without an oil bath. DrySyn offers up to a 35% reduction in energy consumption compared with an oil bath.

LISTENING FIRST

Dani is a strong communicator who makes everything clear. At Asynt, we work the same way: we start by understanding how a lab really runs, then recommend tools that fit. Dani was previously having custom glassware made to meet her students' requirements, and after talking this through with Asynt's technical team, was thrilled with the lightweight, easy to assemble CondensSyn/Distillation system provided.

UNSURE WHAT COMES AFTER YOUR DEGREE?

If you are finishing a chemistry degree and weighing your options, Dani's story is worth considering. Technician roles put you at the heart of the lab, with the chance to lead, teach and improve how science is done.

CUSTOMER PERSPECTIVE

Dani's role as sole Chemistry Technician gives her the opportunity to shape chemists' education and experience, and liaise with experts in effective and sustainable laboratory solutions to ensure that course materials and practicals keep pace with industry developments.

Explore CondensSyn: [View the product range](#)

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