

Breakthrough technology for photochemistry

Asynt introduce the LightSyn Lighthouse – a new photochemical reactor system in their LightSyn range, developed in response to customer demand for higher reaction yields, ease of use, high operational safety, and competitive pricing.



Image caption; Single position and 3-position LightSyn Lighthouse photoreactor

The LightSyn Lighthouse

uses new technology to channel light through a quartz rod directly into the reaction medium, maximising power intensity while keeping photon flux even throughout. Using this system, the number of photons lost over distance is significantly reduced in comparison to that of a more typical photoreactor, therefore maximising the light's interaction with the sample. The result is faster chemistry and higher reaction yields.

Designed

to be a useful tool for any lab looking to branch out into larger scale benchtop photochemistry, the LightSyn Lighthouse is simple to set up and to use, with built-in safety features that eliminate risk of UV light exposure. Easily adapted to suit different sized tubes/vials, and round bottom flasks, the LightSyn Lighthouse is an effective and versatile system for scaling your experiments.

Initially available in single or up to 3 position configurations,

this benchtop photochemical reactor provides heating & agitation via any magnetic hotplate stirrer and is suitable for temperatures from ambient to +80 °C (or down to -30°C with an optional cooling ring – the temperature achieved depends upon the circulator used). In addition to inert atmosphere control there are also integral inlet and outlet ports which allow system customisation for a variety of applications including gas reactions/bubbling, programmed reaction management, sample addition or removal, and potentially flow chemistry set ups using multiple LightSyn Lighthouse units.

For further information

on the LightSyn Lighthouse please visit <https://www.asynt.com/product/lightsyn-lighthouse/> or contact Asynt on +44-1638-781709 / enquiries@asynt.com.

Asynt Ltd

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



Asynt Ltd.

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 provide a high-level of customer support for its oil-free DrySyn Heating Blocks, CondenSyn 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.

Worldwide HQ

Asynt Ltd

Unit 29, Hall Barn Industrial Estate
Isleham
Cambridgeshire CB7 5RJ
UK

tel: +44-1638-781709

email: enquiries@asynt.com

web: www.asynt.com

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