

Tube-in-tube Gas Addition Modules

Tube-in-tube gas-liquid reactors provide a safe and efficient means of performing gas-liquid reactions under continuous flow conditions. They utilise a gas-permeable fluoropolymer inner tubing through which a wide range of gases can rapidly diffuse into the surrounding liquid phase.

GAM I Pre-saturation Module

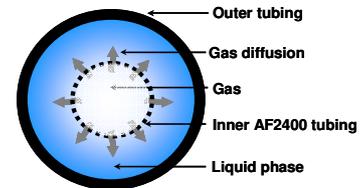
Although designed primarily as a module to provide a solvent feed that is pre-saturated with gas, the GAM I can be used at ambient temperature as a flow reactor. It has an integrated gas management manifold.

GAM II Coil Reactor

In the GAM II, the tube-in-tube concept is incorporated into a standard Uniqsis coil reactor. This can be either heated or cooled, and gas is now supplied 'on-demand' directly to the reaction mixture to improve throughput. The outer tubing is stainless steel for safety and to ensure optimal heat transfer.

To facilitate gas management, an optional [Gas Manifold](#) is also available.

- Safely and reproducibly perform gas-liquid reactions in flow.
- Perform gas-liquid reactions at elevated or sub-ambient temperatures.
- Economical use of expensive gases.
- Compatible with [FlowSyn](#), [Cold Coil](#) and [Polar Bear Plus Flow](#).



Gas Addition Module GAM I



Gas Addition Module GAM II
with optional Gas Manifold