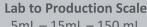


Presents HANU™ Flow Reactors

Your Ultimate Toolbox for scalable Flowchemistry



5mL - 15mL - 150 mL

Extended T/p range Up to 150°C / 25 bar



Irradiation Sources (S)ignify



- Wavelength: 365, 395, 420, 450 nm
- Tuneable light intensity



Static Mixing Element Configurations







Process Inlays & In/Outlet Ports



Coated



SS 316L, HC276, Tigr2, E-Cu, PTFE, PEEK, SiC, etc.

Unique Features



Scalable UV & VIS Photochemistry

Seamless single-technology scale-up strategy for both UV & VIS Photochemistry



Long Residence Time Reactions

Continuous one-pass operation with no need for recirculation



Demanding Multi-phase Reactions

Effective mixing of immiscible liquids and solid particles in suspension at any flow rate



Multi-Purpose Solution for cGMP Production

'open-shell' system, disassembly allows straightforward physical cleaning and swab sampling



Non-invasive Inline Reaction Monitoring

Through-window PAT methods (i.e. Raman, NIR) or visual inspections



Visual Inspections

Inspection window to visually monitor and understand your particular process

Working Principle: COSTA™ Technology



Continuous processing in a linear plate flow reactor

- Uned
- Oscillating flow regime
- STAtic mixing elements located in process channel

Excellent process control







Temperature Control



Plug Flow Profile

Single-technology scale-up strategy



Assembled Unit



Linear Scalability



Multi-ton/year Production

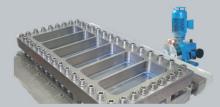
Products



HANU™ 2X 5



HANU™ 2X 15



HANU™ HX 150

Laboratory R&D

Process Development

Pilot & Production

kg/h - multi-MT/y

g/h – kg/d

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