



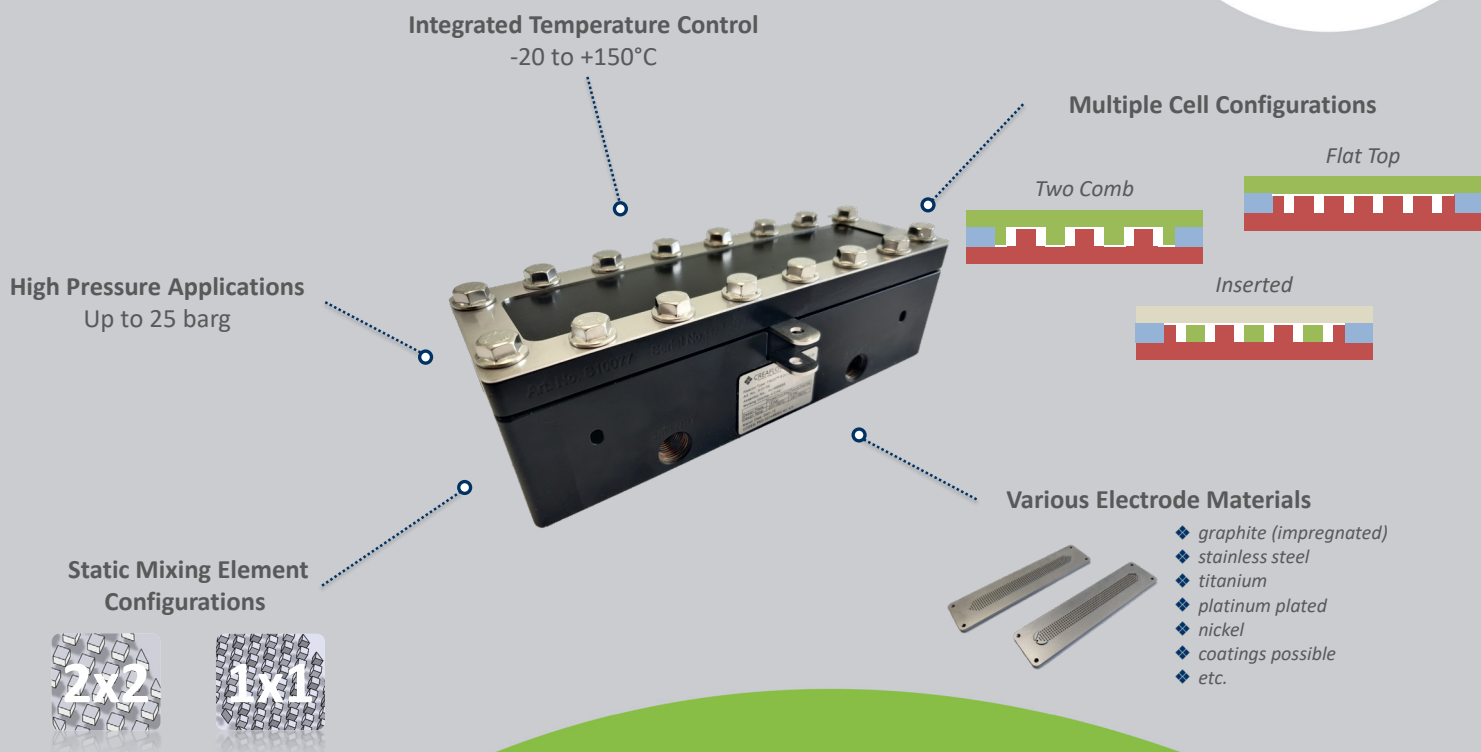
CREAFLOW

Scalable Flow Reactors

presents

FAVO™ 5 Flow Reactor

*Electrochemistry
Beyond the State of the Art*



Unique Features



Ultimate Control over Mass Transfer

The Dual Pulse Technology (*i.e.*, flow and voltage pulsation) allows superior optimization of the electrochemical process



Long Residence Time Reactions

Continuous single-pass operation with no need for recirculation



Demanding Multi-phase Reactions

Effective handling of solid particles and gas bubble formation at any flow rate



Multiple Cell Configurations

Modular reactor platform with versatile undivided & divided flow cell configurations



Wide Temperature & Pressure Range

Operating temperatures from -20 to 150 °C and pressure rating up to 25 barg



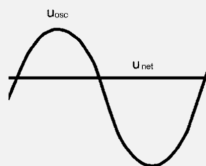
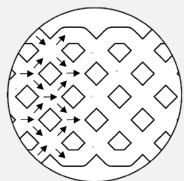
Unrivalled Productivity Rates

Productivity rates up to a 4-fold as compared to steady-state flow reactor conditions

Working Principle: COSTA™ Technology



◆ Continuous processing in a linear plate flow reactor



◆ Oscillating flow regime

◆ STAtic mixing elements located in process channel

Excellent process control

Single-technology scale-up strategy



Low Flow
Mixing



Temperature
Control



Plug Flow
Profile



Assembled Unit
Modularity



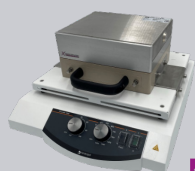
Linear
Scalability



Multi-ton/year
Production

HANU™ Flow Reactors

Your Ultimate Toolbox for Scalable Photochemistry



HANU™ PX 9

PESCHL
PHOTOREACTORS



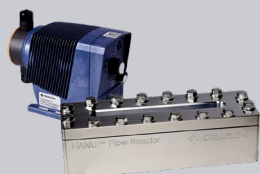
photoLAB HANU™ 2X 5

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photoLAB HANU™ 2X 15
(turnkey system)

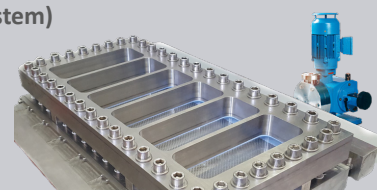
PESCHL
PHOTOREACTORS



HANU™ 2X 5



HANU™ 2X 15



HANU™ HX 150

Laboratory R&D

mg/h – g/d

Process Development

g/h – kg/d

Pilot & Production

kg/h – multi-MT/y

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