



The widest range of flow reactors for research and continuous process chemistry

ThalesNano is a world-leading provider of continuous process technologies and flow chemistry instruments in the rapidly developing market of laboratory and process scale flow reactors.

Since the company was founded in 2002 ThalesNano has become widely recognized for its expertise in adapting chemical processes to manual or automated continuous flow reactors for the chemical industry. ThalesNano has the widest portfolio of bench-top continuous process instruments covering a wide range of scales. Its H-Cube[®] continuous-flow hydrogenation reactor and pilot plant scale version H-Cube Midi[™] are used in hundreds of laboratories in four continents and have become the new industry standard for hydrogenation. ThalesNano's Cube reactors have been successfully utilized in a number of different industries such as pharmaceutical, fine chemical, and petrochemical. ThalesNano continues to provide flow chemistry solutions for companies from all over the world.



H-CUBE[®]

Already the new standard for hydrogenation, H-Cube[®] is a bench-top reactor, with on-demand hydrogen generation and a disposable catalyst cartridge system, operating at temperatures of up to 100°C and pressures of 100 bar (1450 psi).

X-CUBE FLASH[™]

A general purpose instrument for a wide range of reactions. Can operate up to 350°C and 200 bar (2900 psi). The system is capable to perform homogeneous reactions under supercritical conditions.





X-CUBE™

Standalone continuous-flow instrument providing the widest application platform for chemical synthesis at elevated pressure and temperature. Different reactions can be performed using X-Cube™ from frequently used lab reactions up to gas/liquid/solid reactions using external gas introduction.

AUTOMATION

The Autosampler™ and CatCart Changer™ systems allow both the H-Cube® and X-Cube™ to be set up for fully automated operation, and enabling rapid reaction optimization, library synthesis or catalyst screening.



H-CUBE MIDI™

The H-Cube Midi™ takes reactions performed in the standard H-Cube® into the process (kilogram) phase with minimum reaction redesign. Scaling up a reaction from mg to kg typically takes just one day, even for difficult reactions.

For further information please contact us at flowchemistry@thalesnano.com or visit our website: www.thalesnano.com

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