

**H-CUBE**  
MINI PLUS

# Safe, simple, and affordable hydrogenation



Safe: No H<sub>2</sub> cylinders and catalyst filtration  
Powerful: 100 °C and 100 bar capable  
Fast: results in 4 minutes  
Simple with built-in video tutorials

Contact [genie@thalesnano.com](mailto:genie@thalesnano.com) for more details.

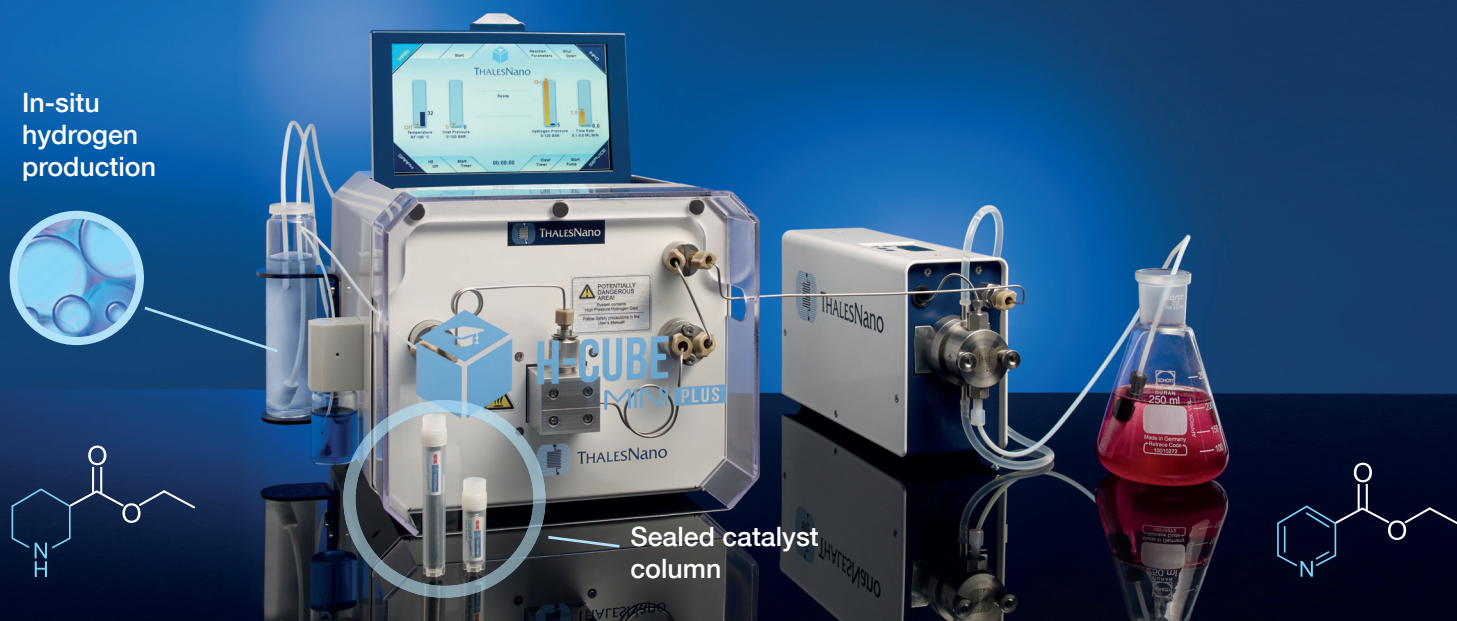
<https://www.thalesnano.com>



[/company/thalesnano-inc-](https://www.linkedin.com/company/thalesnano-inc-)

A revolutionary bench-top high pressure hydrogenation reactor, uniquely combining continuous-flow microchemistry with endogenous on-demand hydrogen generation and a disposable catalyst cartridge system to create an extremely safe, yet powerful system. It allows fast, safe,

and cost-efficient hydrogenation for both academia, for their education and research purposes, and industry for rapid small scale production with superior yields when compared to conventional methods.



## INDUSTRY

- Able to reduce heterocycles to form high fsp<sup>3</sup> molecules
- Simple to use with small footprint
- High pressure lab in your fume hood
- Fast catalyst and parameter screening
- Selective reaction

## ACADEMIA

- High temperature and pressure for new chemistry
- Teach hydrogenation for undergraduates for the first time
- Simple enough for students to use
- Complete reaction and monitoring in 1 lab session
- Industry accepted technology

### Technical Parameters of the H-Cube Mini Plus™

Temperature range	Ambient to 100 °C
Pressure range	1 bar to 100 bar
Flow Rate	0.1–3 ml/min
Hydrogen Generation	25–30 ml/min
Water Reservoir Capacity	100 ml
Dimensions	Width: 217 mm (8.54") Depth: 290 mm (11.42") Height: 200 mm (7.87") with closed display, 315 mm (12.4") with opened
Weight	7.3 kg (16.09 lb)
Voltage	100–240 V AC
Catalyst Amount	0.1–0.3 g
Concentration	0.01–1M

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