

May 2015

... enabling distributed manufacturing

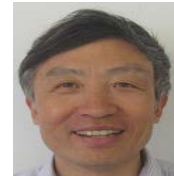
Safer, Greener, Faster and Cheaper

NiTech Solutions is one of the world's leading authorities on the use of continuous baffled reactor and crystallisation technology.

Visit us at **ACHEMA** in Frankfurt, Germany, 15-19 June, where we will demonstrate our concept of "manufacturing on a boardroom table" – continuous processing through reaction, crystallisation, filtration and drying.

Visit NiTech and AWL in Hall 9.2, Stand F48

Listen to Professor Xiong-Wei Ni, founder of NiTech Solutions, talk about "Continuous Crystallisation and Manufacturing" on 18 June, 12:30-13:00, in Hall CMF, Room Fantasie 1



Discover how NiTech's revolutionary clean technology and its **DN15** crystalliser and reactor range can help you stay ahead of the competition in today's fast-changing markets.

Enjoy **DN15's** proven benefits:

- Closer/simpler process control, and lower inventories of un-reacted hazardous materials, enhance **SAFETY**;
- Reduced energy use and waste generation, plus improved efficiency result in a **GREENER** process;
- Quicker reaction times, simpler product change-over and a modular/portable design allow a **FASTER** response to volatile market needs;
- Smaller manufacturing footprint and lower capital/maintenance means **CHEAPER** operating cost.



Several industry majors have already chosen NiTech's **DN15** laboratory-scale equipment to help them remain competitive.

NiTech's DN15 continuous crystallisers and reactors are the Safer, Greener, Faster and Cheaper solution for today's manufacturing challenges

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NiTech's DN15 range has widespread applications for manufacturers in the chemical, pharmaceutical, food and drink, life science and allied industries

The three borosilicate glass models available are:

DN15 Lite (1250mL in volume, 7m long)

Typical residence time is 30 minutes*

Size: 1110mm long x 800mm deep x 950mm high

Upgradable to **DN15 Standard** configuration

DN15 Standard (2500mL in volume, 14m long)

Typical residence time is 60 minutes*

Size: 1110mm long x 800mm deep x 950mm high

DN15 Plus (3500mL in volume, 20m long)

Typical residence time is 90 minutes*

Size: 1110mm long x 800mm deep x 1290mm high



* At a nominal flow rate of 40 mL/minute

The **DN15** range of continuous oscillatory baffled crystallisers and reactors has the following operational parameters:

- Temperature range: 0°C to 100/150 °C
- Oscillator frequency: 0 Hz to 3.0 Hz
- Oscillator amplitude: 0 mm to 65 mm
- Operating pressure: ambient – 2.0BarG

The **DN15** range is also available as **High Pressure (HP)** models:

DN15 Lite HP C316L (stainless steel)

DN15 Lite HP C22 (alloy)

DN15 Standard HP C316L (stainless steel)

DN15 Standard HP C22 (alloy)

ATEX COMPLIANT

HP units can include a control system housed in a flame-proof enclosure to allow for use in an ATEX environment



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