

# Reducing costs & emissions with NiTech technology

## PHASE 1: INTRODUCTORY DISCUSSION & SITE VISIT OPTION

We populate NiTech Solutions' proprietary Accelerator Tool with your key application data.

We will then be able to quickly define an indicative COBR/C design specification and projected CAPEX estimation.

### KEY CLIENT APPLICATION DATA

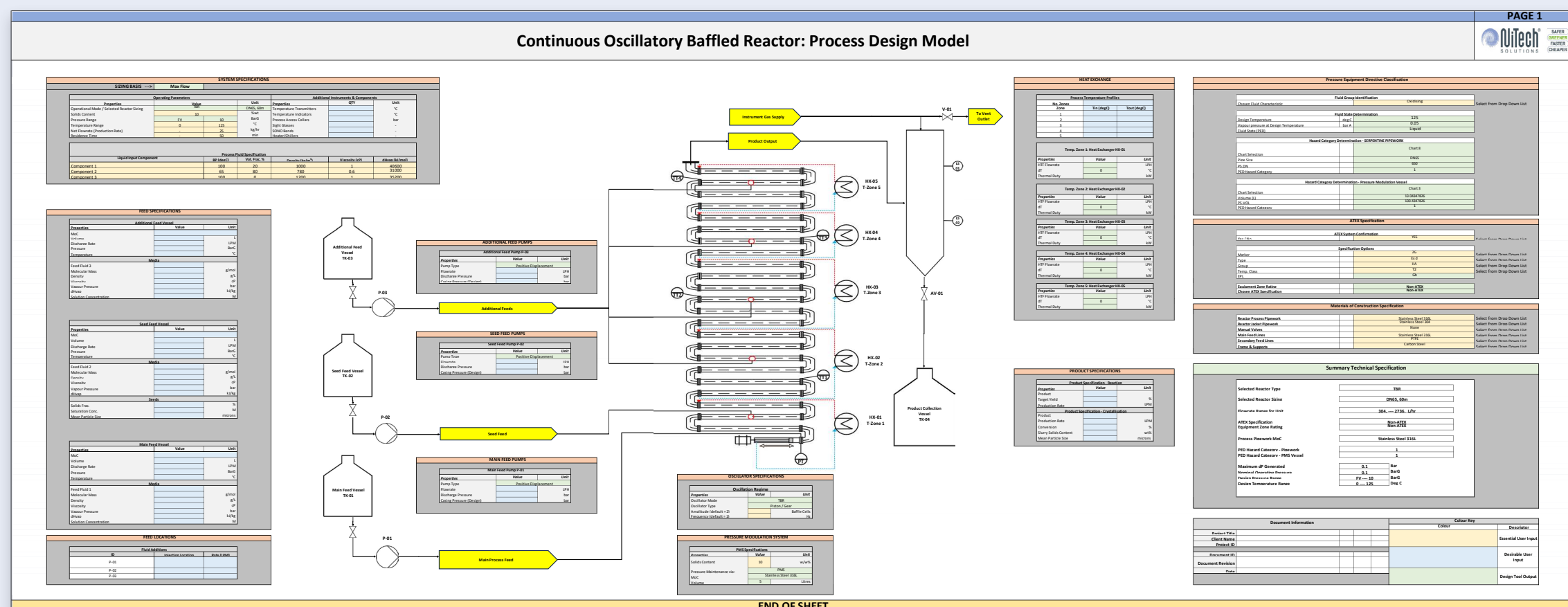
We will need data on these 5 areas to produce the Concept Proposal:

- Feedstock materials and composition
- Residence time
- Production rate
- Nominal operating pressure
- Operating temperature range

## PHASE 2: COBR/C CONCEPT PROPOSAL

NiTech's Accelerator Tool is a proven mechanism for specifying your pilot or production unit, based on your own application data.

It will provide you with a Summary Technical Specification that embodies the selected reactor size, design features and cost magnitude based on your application. The aim is to scale your process quickly and reliably from Lab to Pilot and finally Production Scale.



## PHASE 3: CONFIRMING THE DESIGN

A short R&D stage is then normally required to validate the initial specification, based on trials using our full range of client-owned or rental-based DN15 Laboratory scale units.

Using these results, NiTech will define the necessary Pilot or Production scale system. We will also engage with engineering partners (either your own experts, or our partners) to design, procure, assemble and deliver your bespoke COBR/C.

## PHASE 4: PRODUCTION IMPLEMENTATION

NiTech will continue to support you through installation and commissioning with continued application and system performance guidance.

Once the unit is installed, you will begin to experience the benefits of process intensification in terms of cost-reduction and lower CO<sub>2</sub> emissions. These will be achieved via excellence in mixing, heat and mass transfer, reduced hardware footprint and production times, and enhanced process safety.

SAFER + GREENER + FASTER + CHEAPER

Contact us on [sales@nitechsolutions.co.uk](mailto:sales@nitechsolutions.co.uk)