





# Dynamic flowsheet simulation system Dyssol

User Interface

## **User interface**

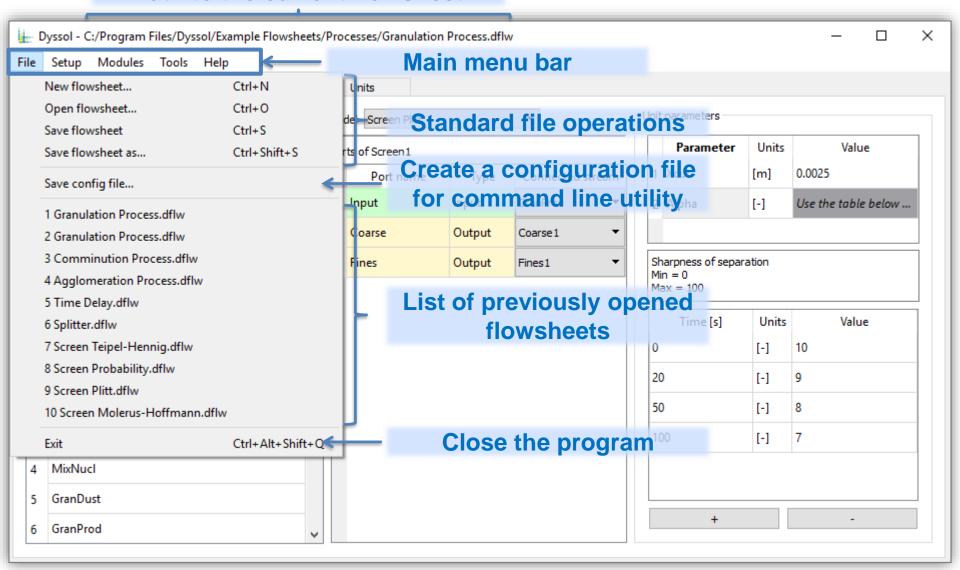
#### **Main window**

#### File menu





#### Path to the current flowsheet

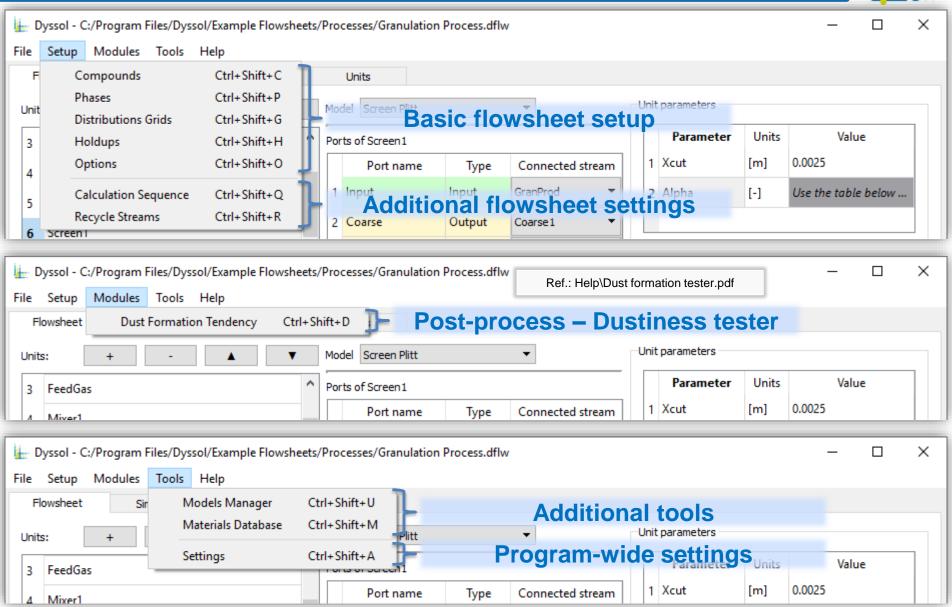


#### **Main window**

#### Menu entries





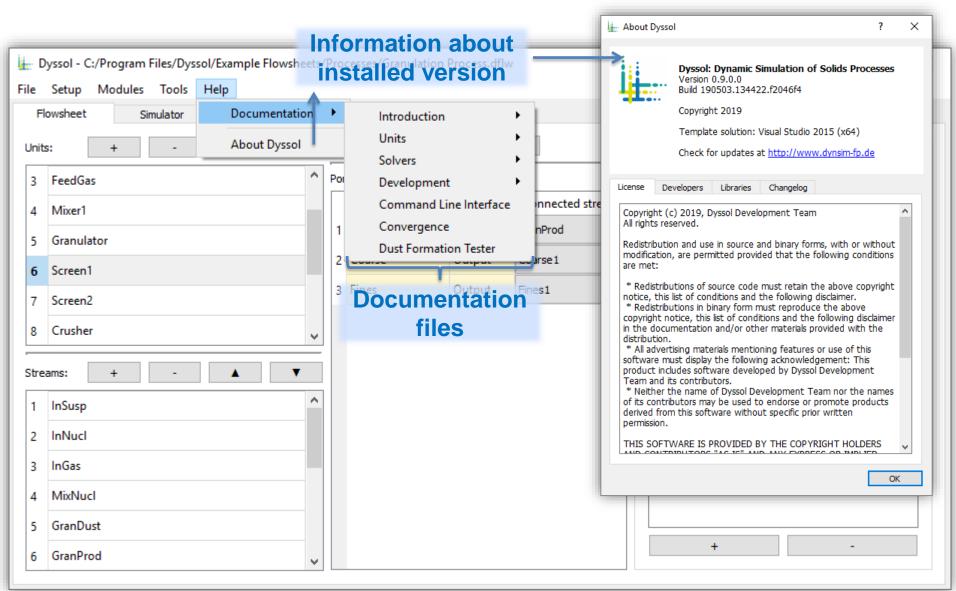


#### Main window

## Help menu

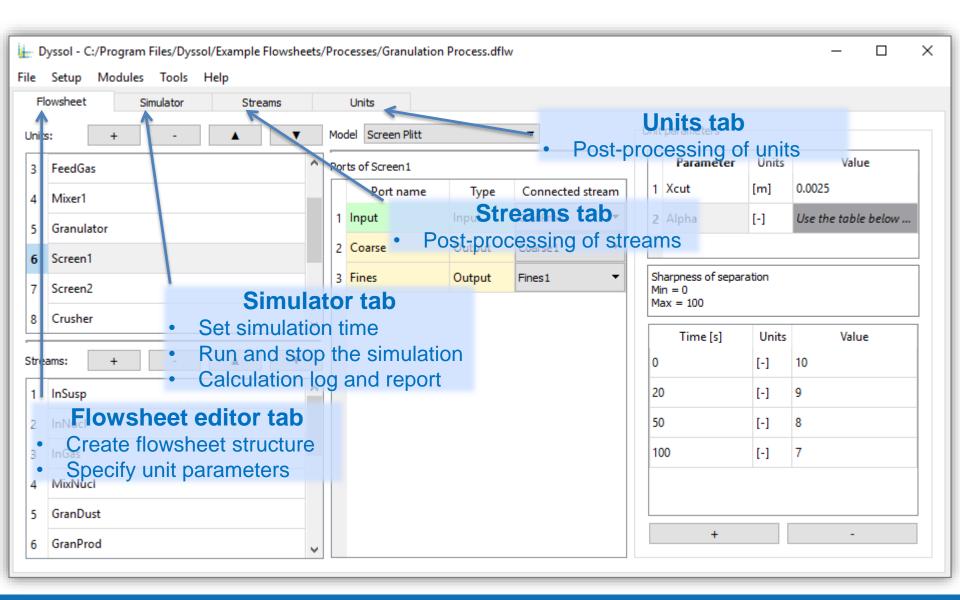








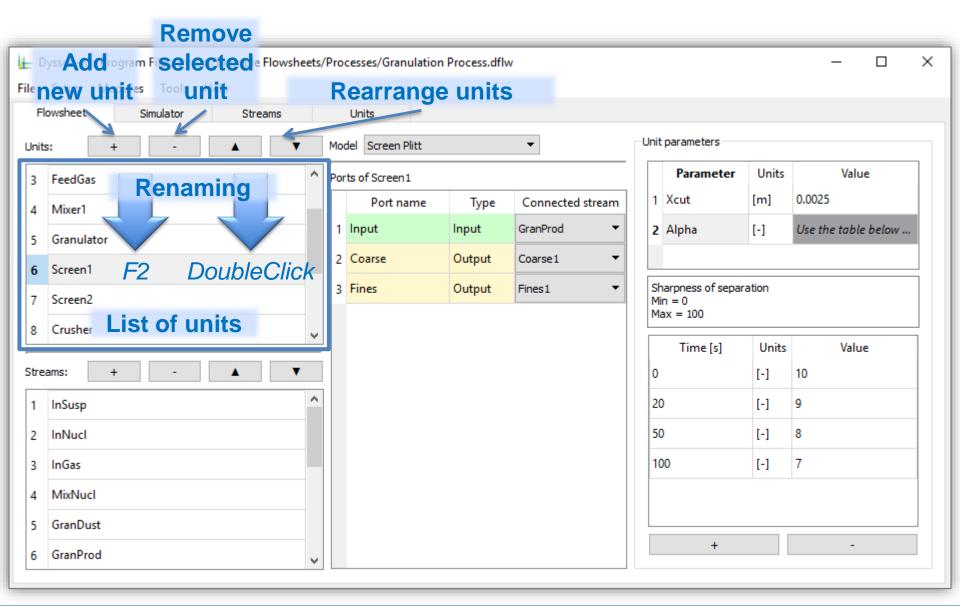




#### **Units**



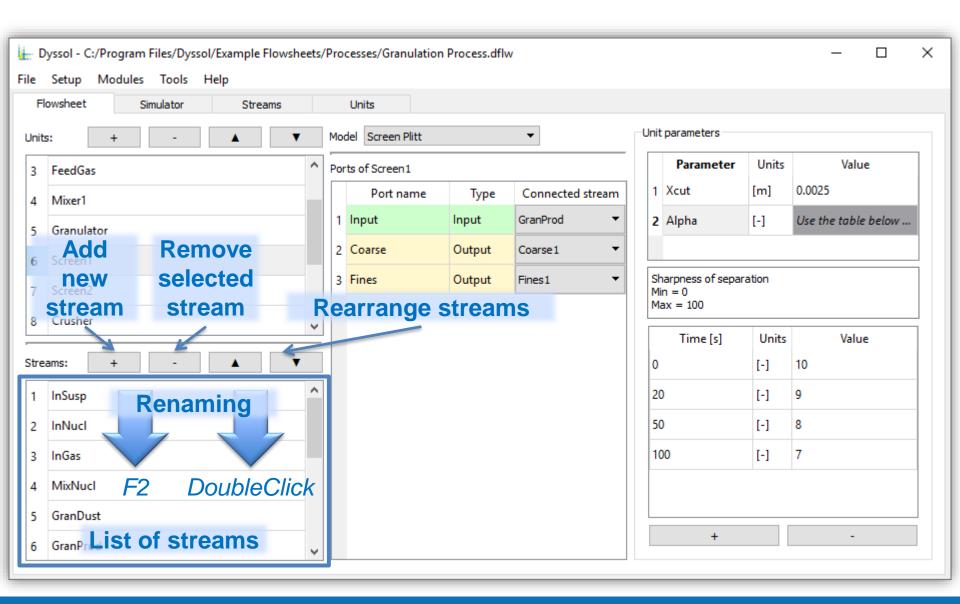




#### **Streams**



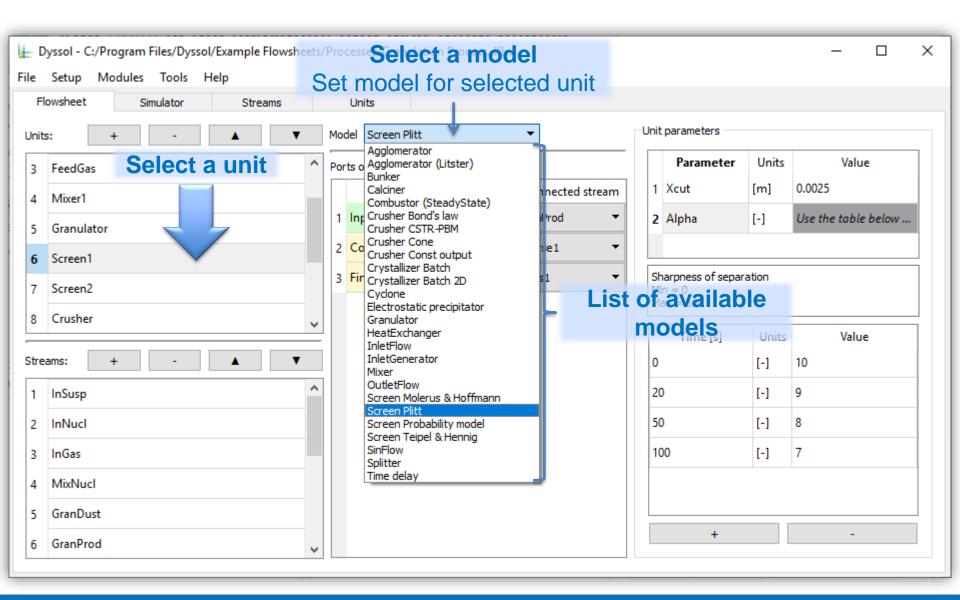




#### Model selection



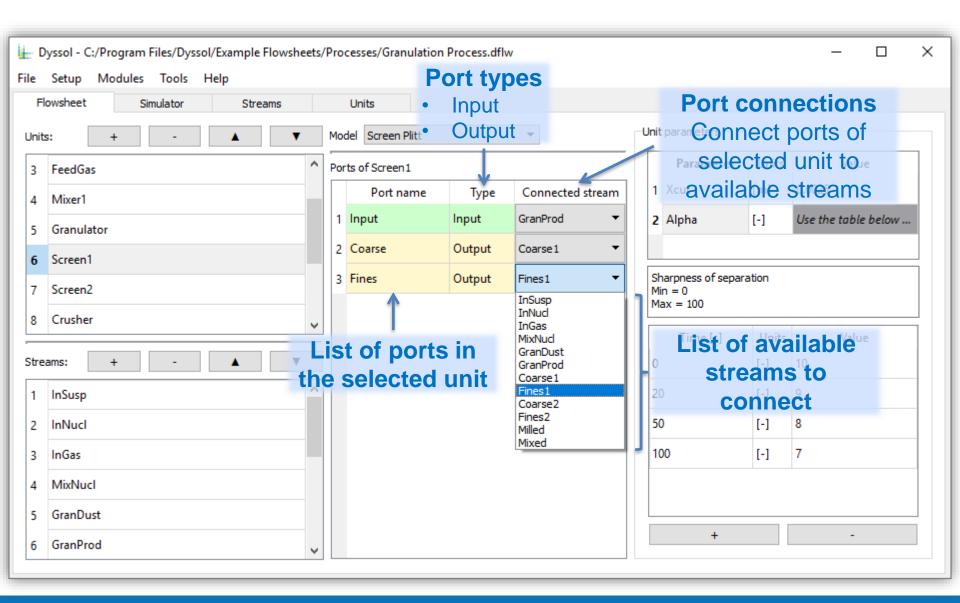




#### Ports connection



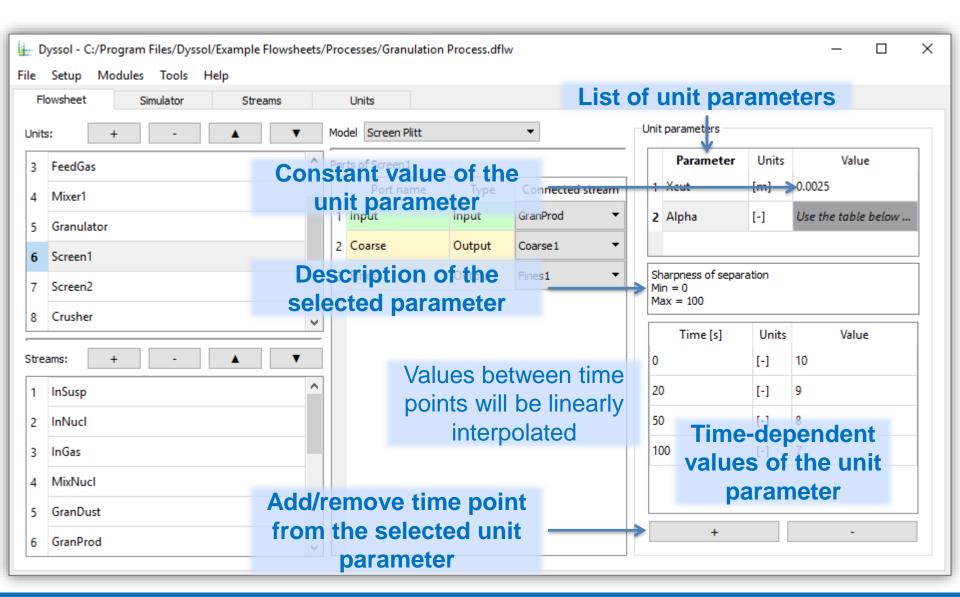




## Unit parameters

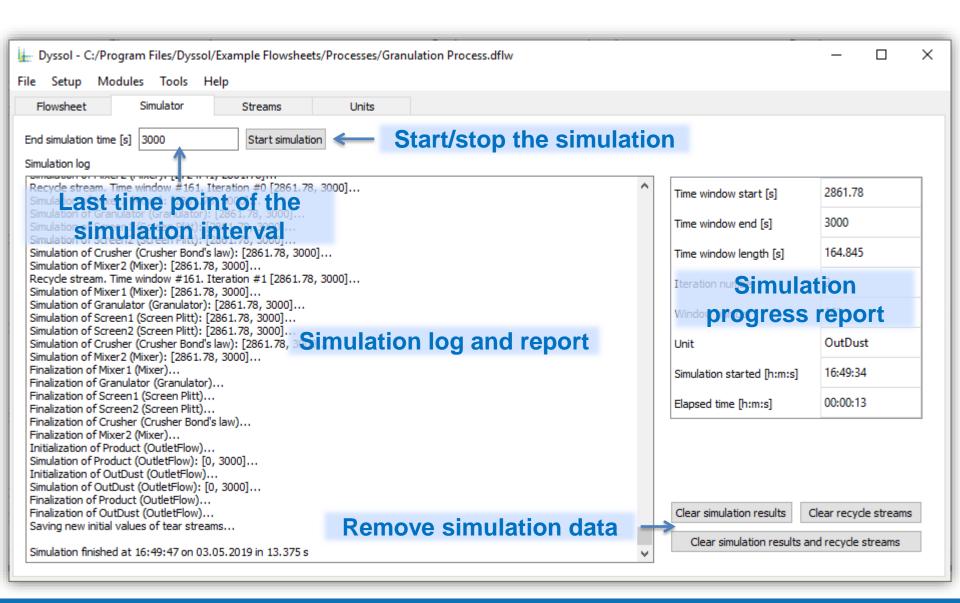










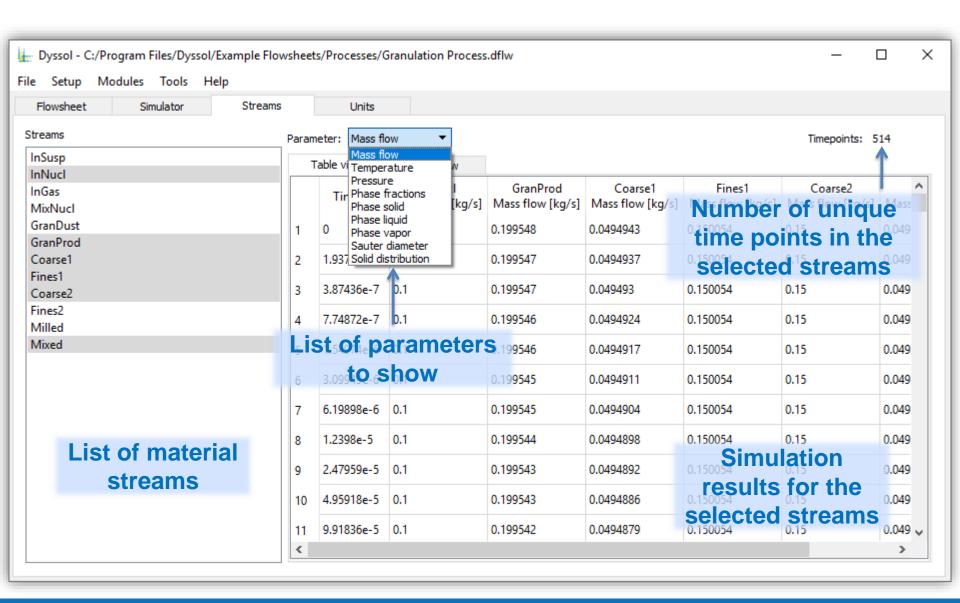


#### Streams tab

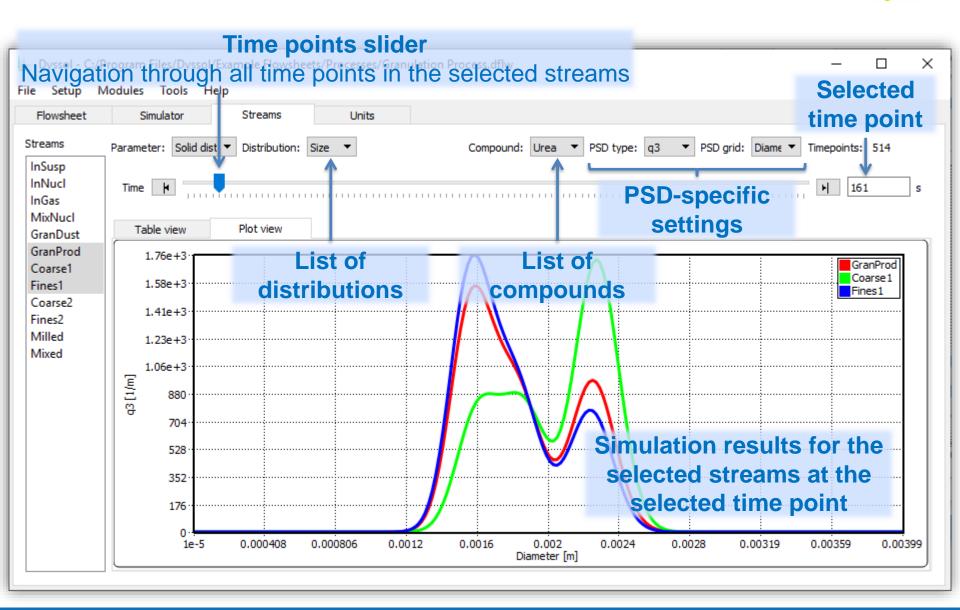
#### Table view





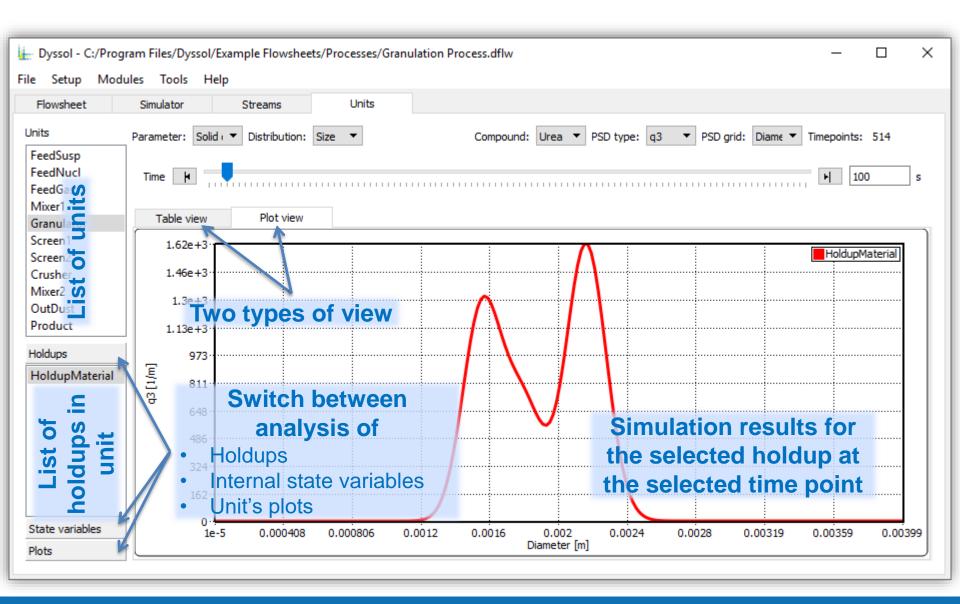








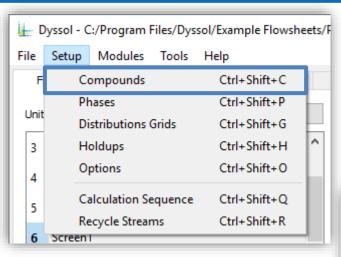


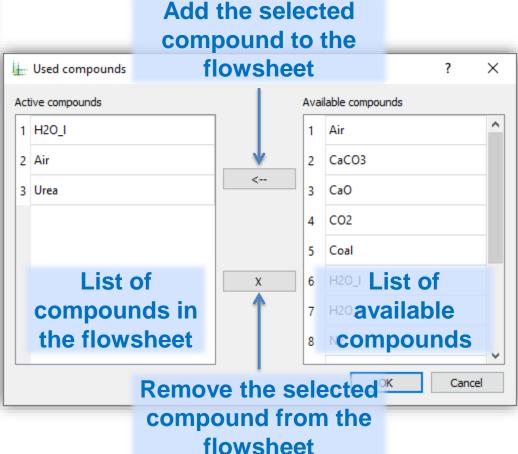


## Compounds





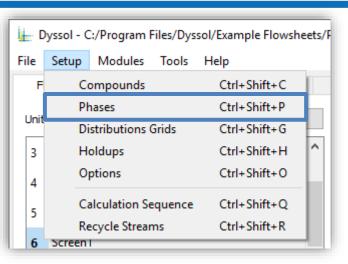




#### Phases editor



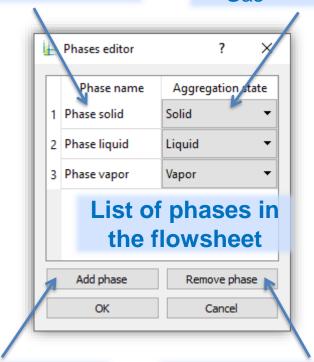






Phase name

Gas



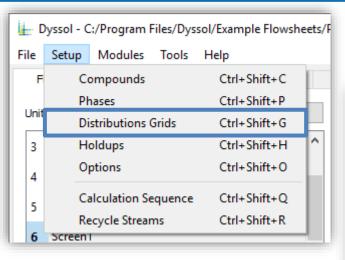
Add new phase to the flowsheet

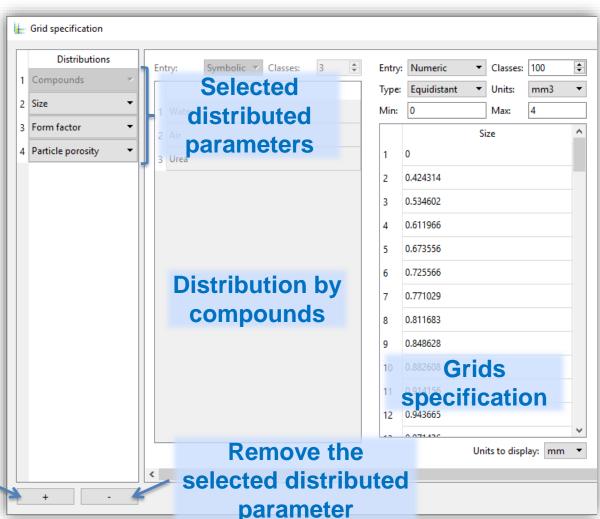
Remove the selected phase from the flowsheet

## Grids specification







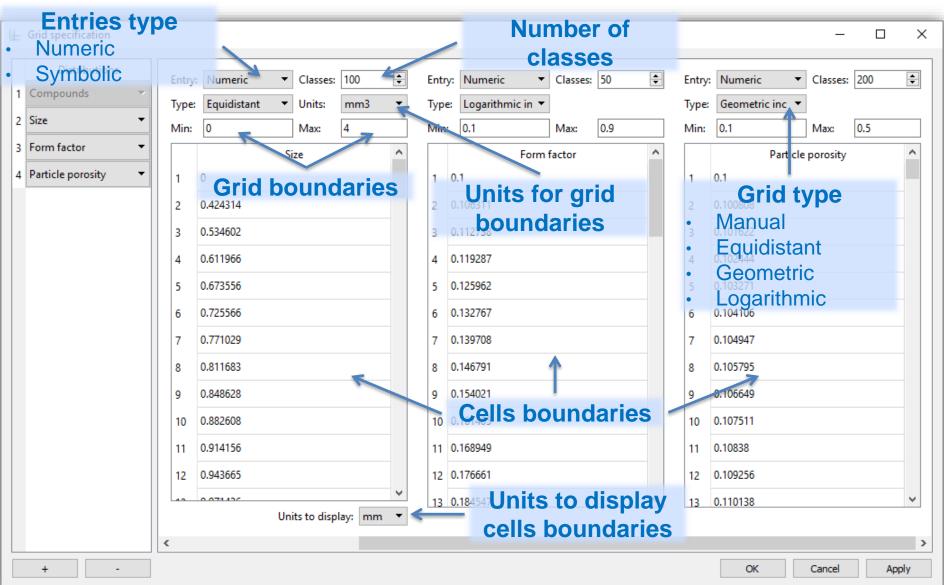


Add distributed parameter

## Grids specification



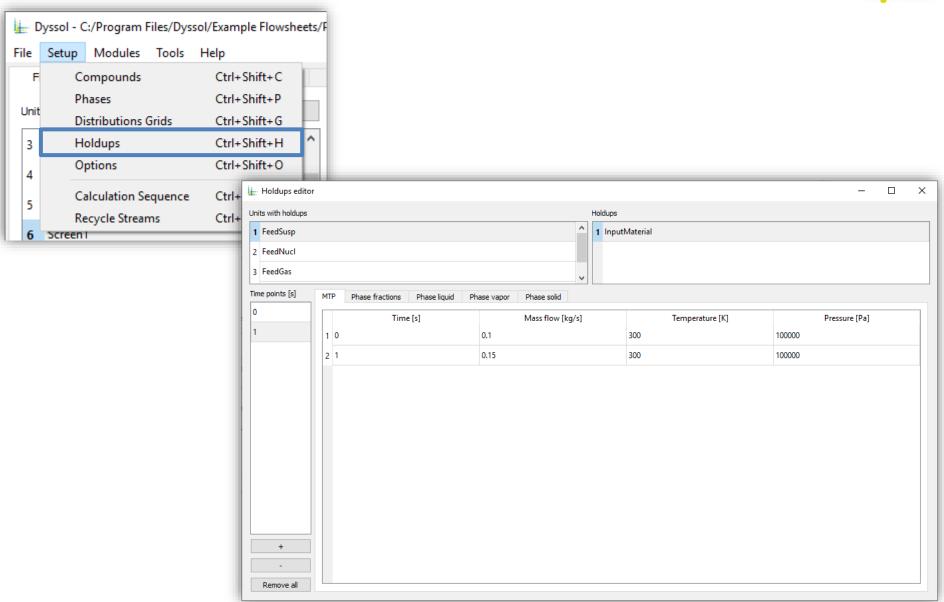




## Holdups editor



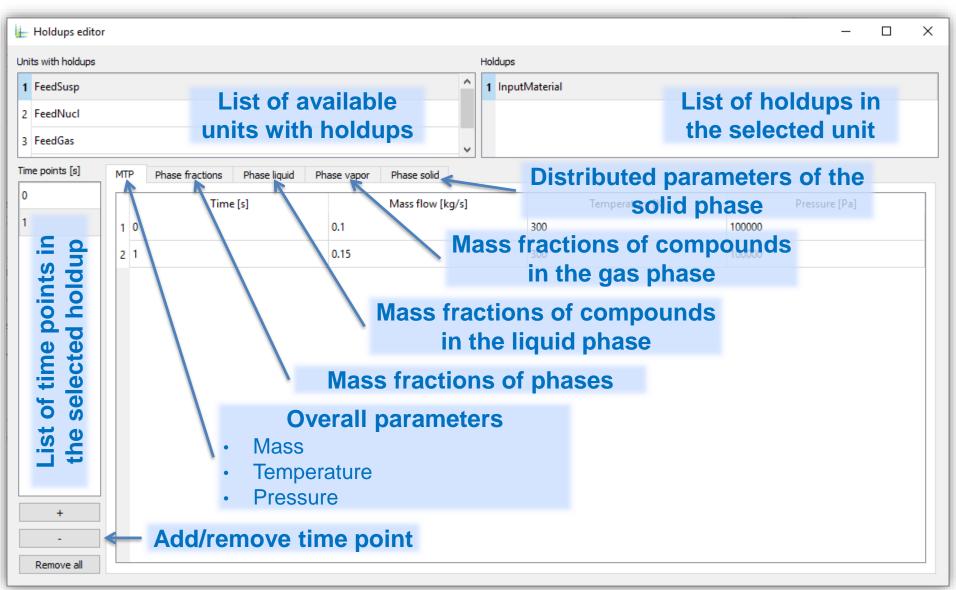




## Holdups editor – Main controls



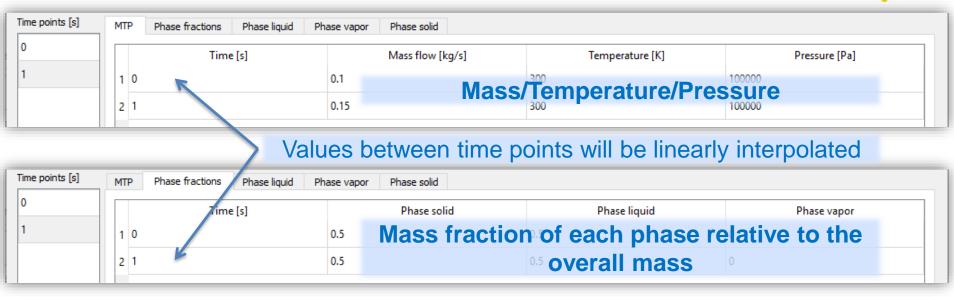


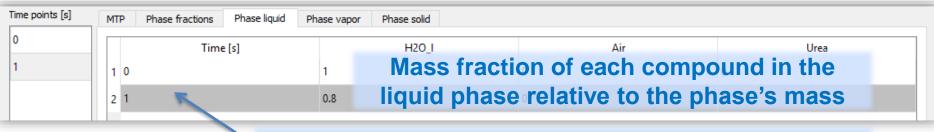


# SOLIDS PROCESS ENGINEERING & PARTICLE TECHNOLOGY TUHH

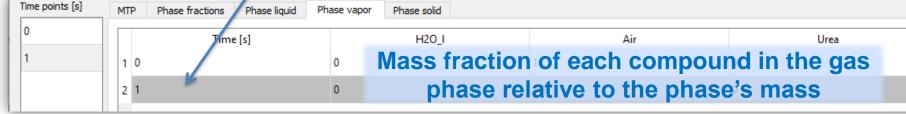


## Holdups editor – Concentrated parameters





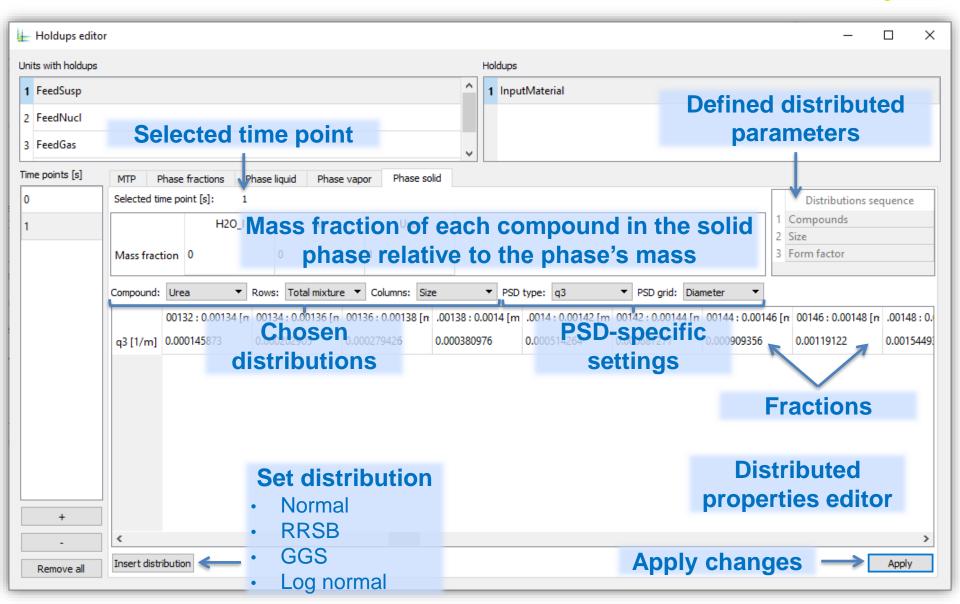
## Sum of fractions for each time point must be equal to one



## Holdups editor – Distributed parameters





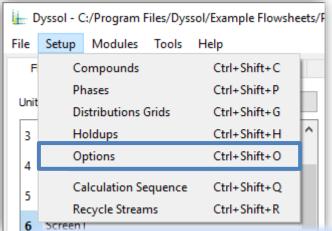


## **Options**

## General

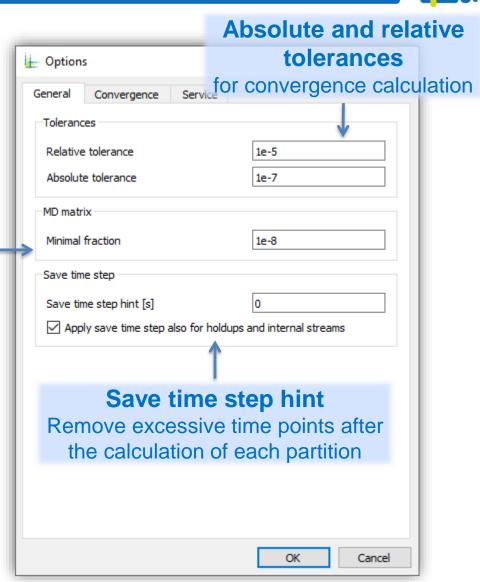






#### **Minimum fraction**

that is considered in the multidimensional distributed set of parameters



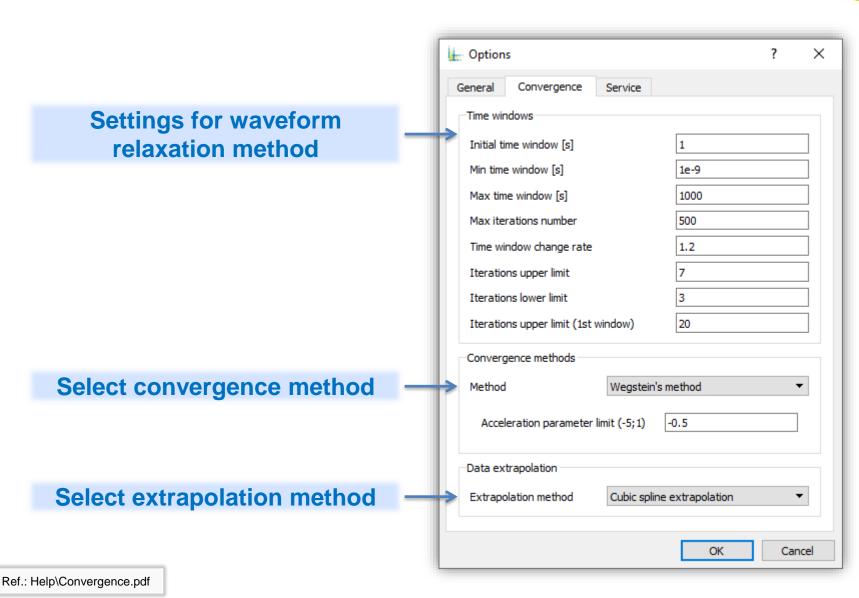
Ref.: Help\Convergence.pdf

## **Options**

## Convergence





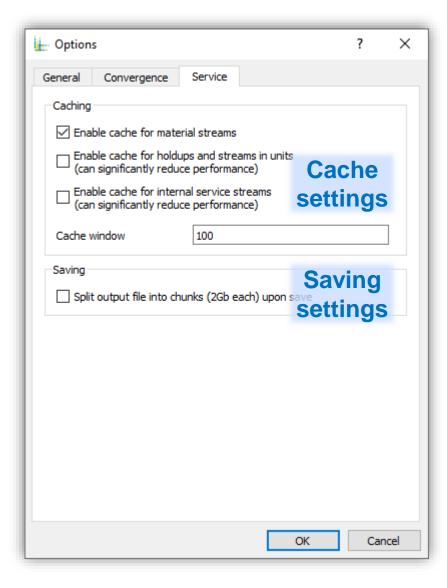


## **Options**

#### Service



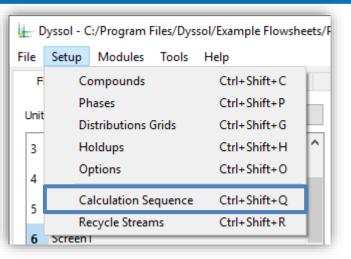




## Calculation sequence

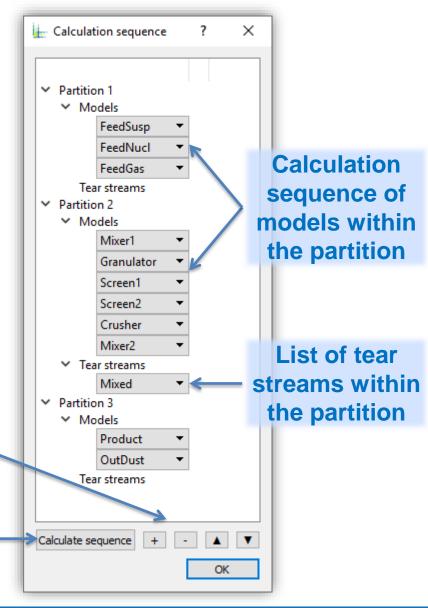






Add, remove, rearrange models, tear streams or partitions

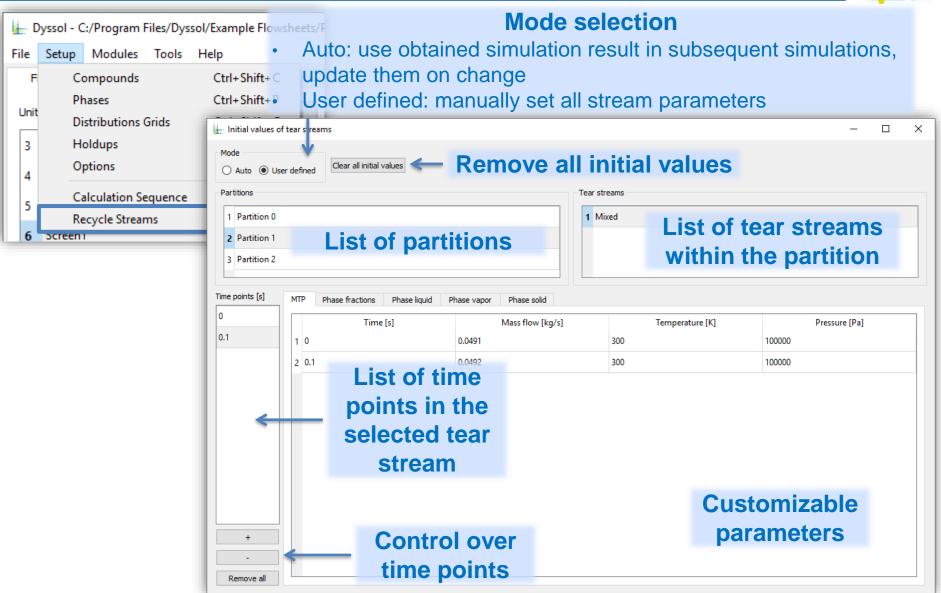
**Update calculation sequence** 



## Recycle streams



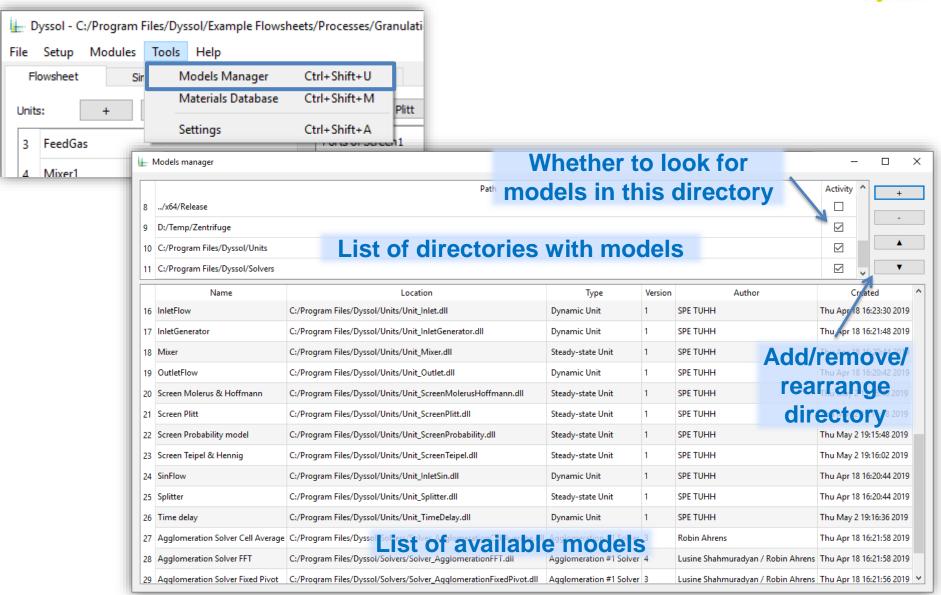




## Models manager



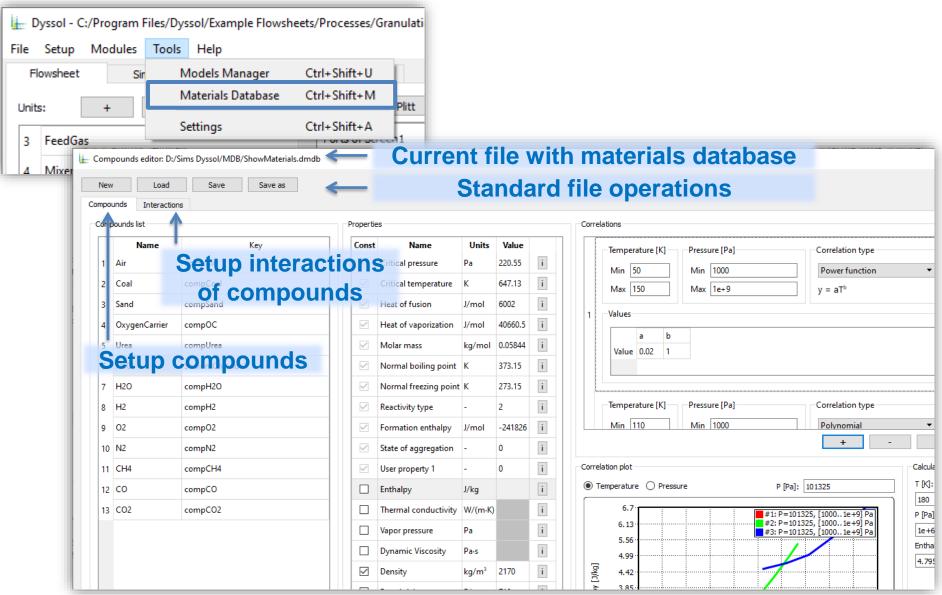




#### Materials database



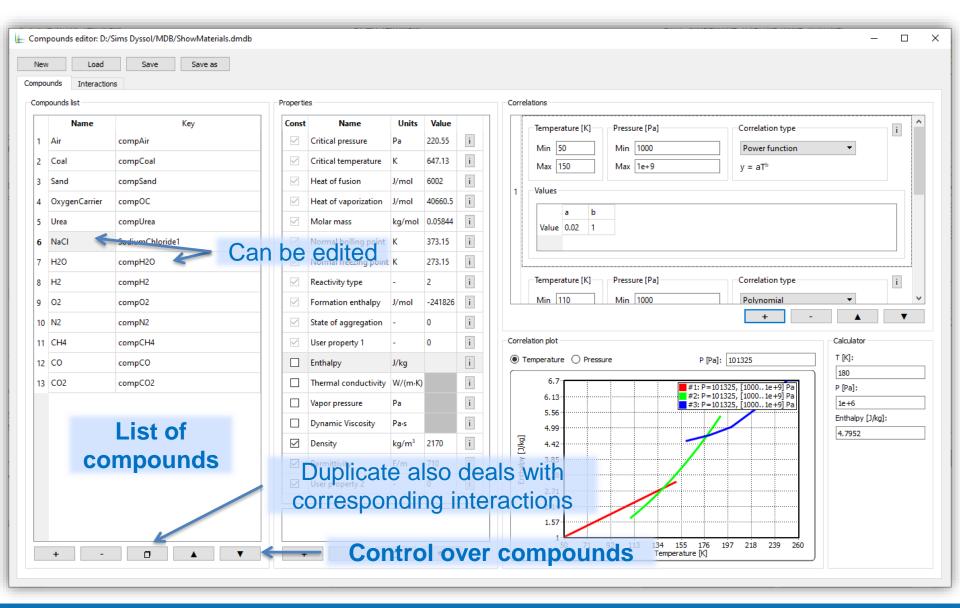




## Materials database – Compounds



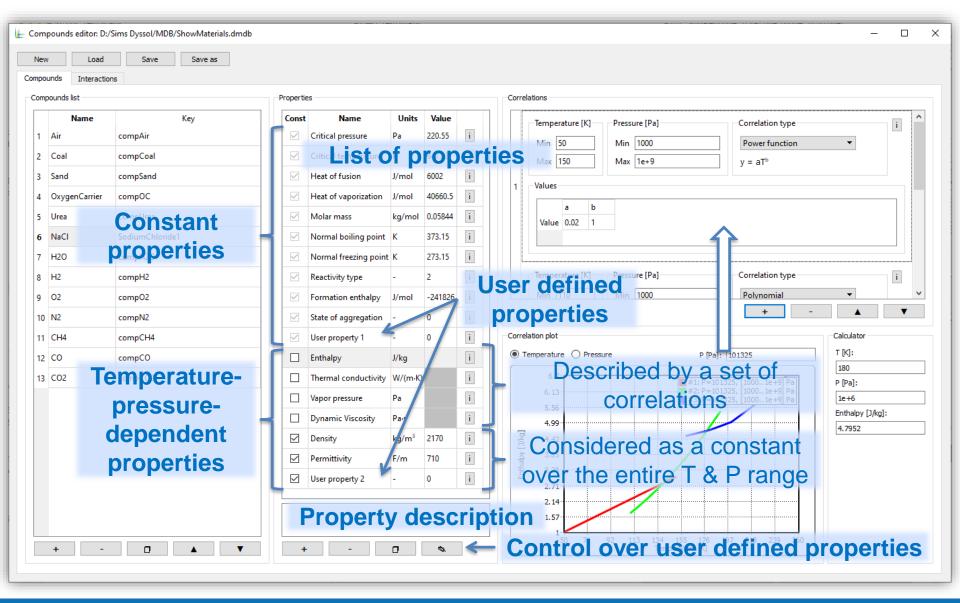




## Materials database – Properties



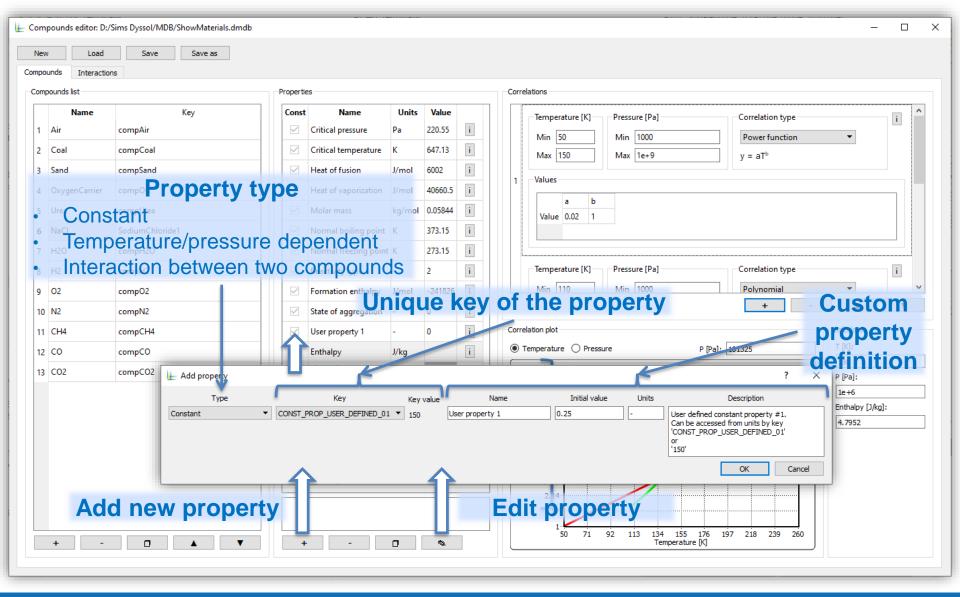




## Materials database – Properties editor



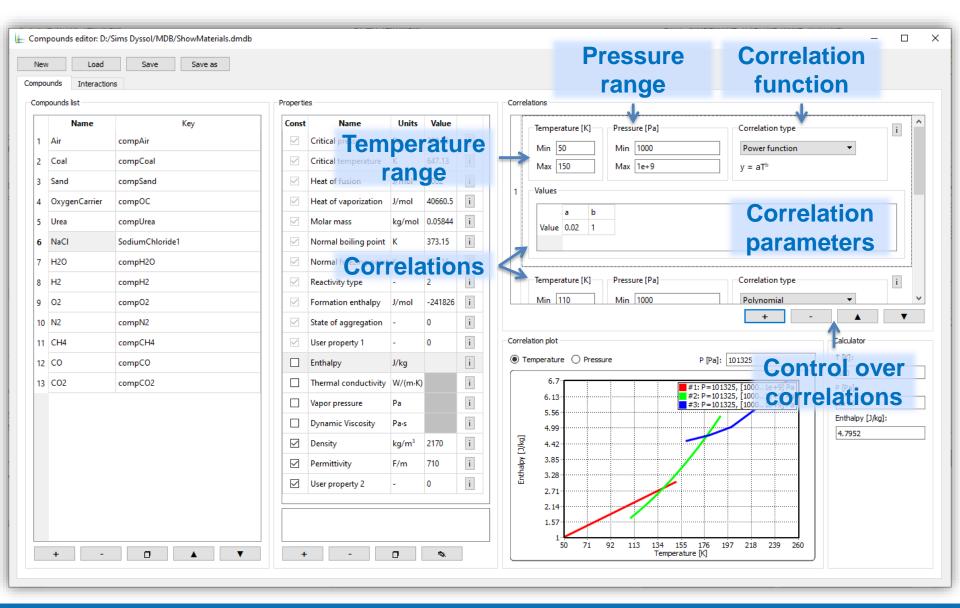




#### Materials database – Correlations



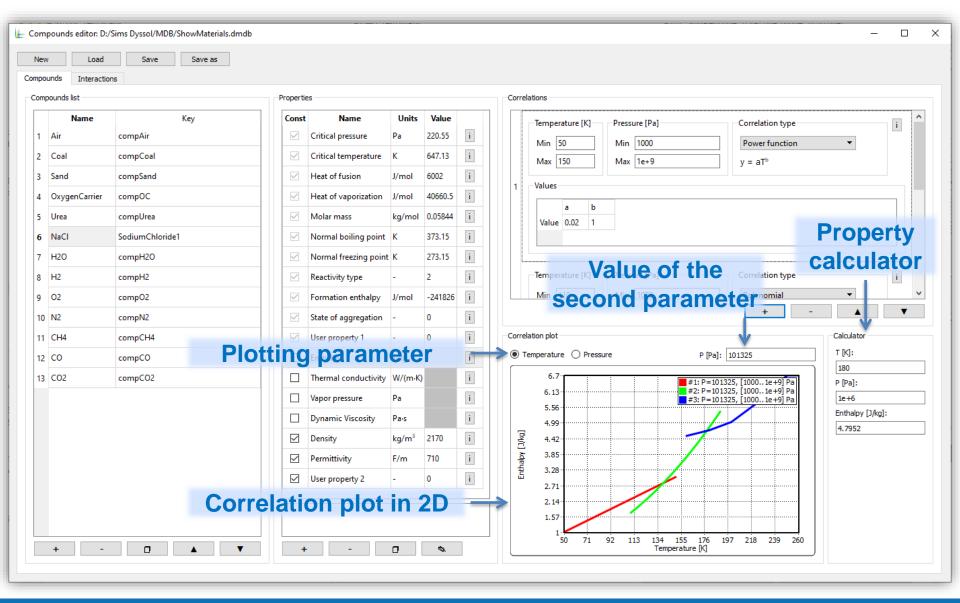




## Materials database – Correlation plot



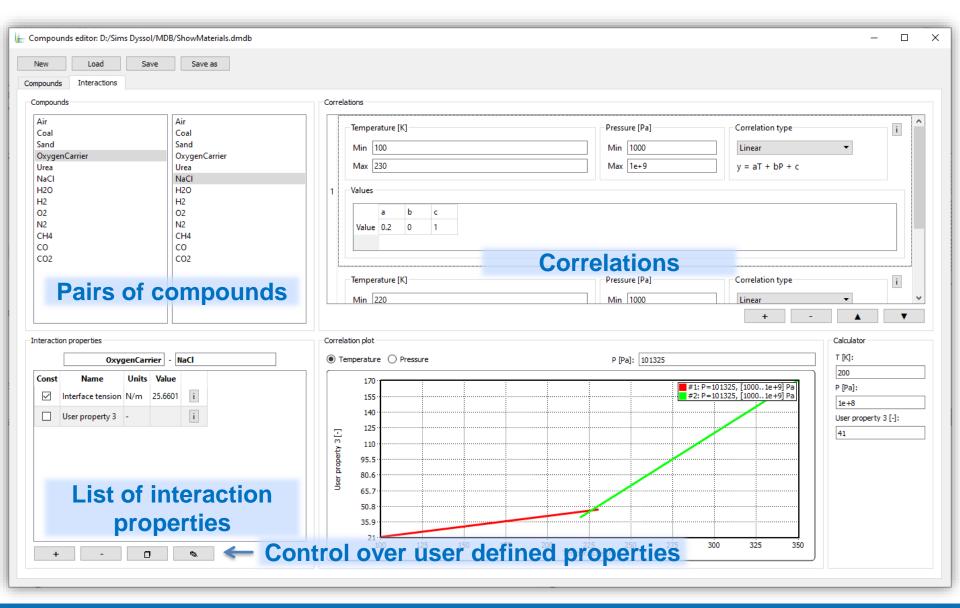




#### Materials database - Interactions







## **Command line interface**

#### **Command line interface**





- Run simulations in command line mode
- Batch runs of multiple simulations
- Change simulation parameters: simulation time, unit parameters, grid parameters, holdups, distributed parameters of solids, simulation options
- Cannot change the flowsheet structure
- Possibility to save flowsheet as the configuration file for the command line mode:

