

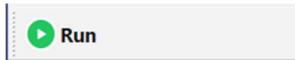
# FactSage 8.4 - FactFlow - May 2026

## Summary of User Interface and Workflow Improvements

This update, FactFlow 2.16, replaces FactFlow 2.13. It adds interface and workflow improvements for building and editing process flowsheets.

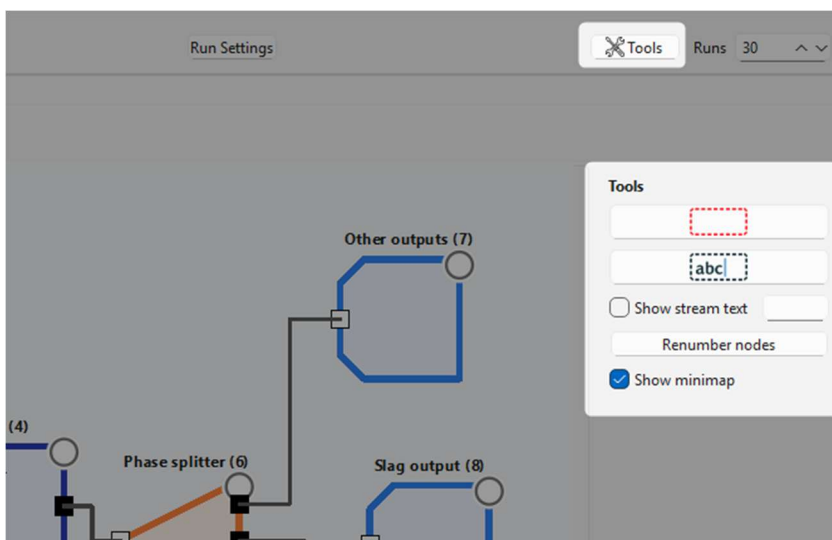
### 1. Improved run button visibility

The Run button has been updated to make it easier to identify.



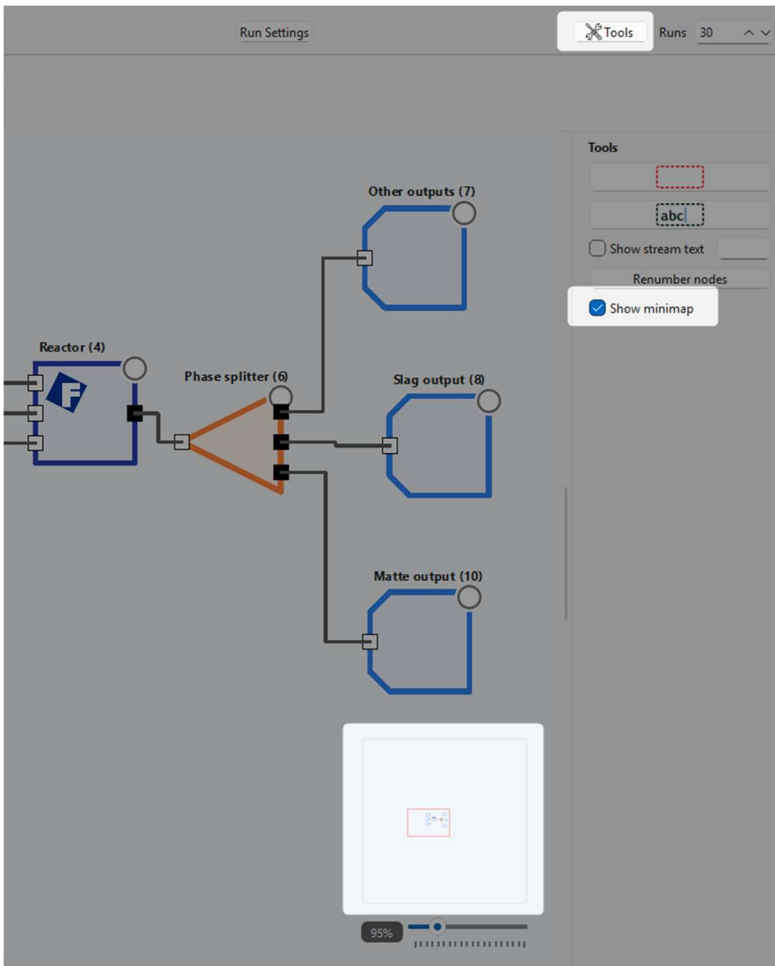
### 2. New tools panel for display controls

The new Tools menu provides options to renumber nodes, add text boxes and frames to the canvas, display a minimap, and control stream text display.



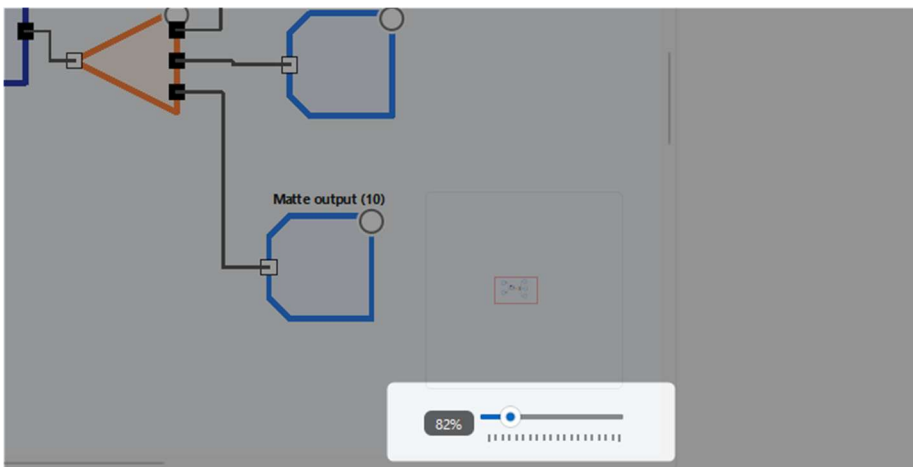
### 3. Minimap added for large flowsheets

A minimap has been added for navigation in large or complex flowsheets. It shows the current position on the canvas.



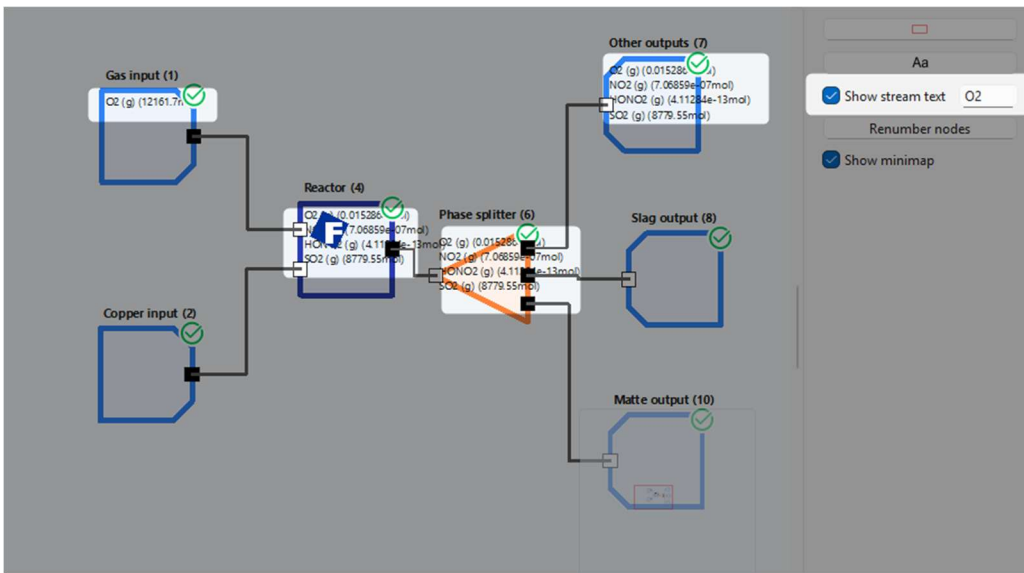
### 4. Zoom control

A zoom control has been added for direct zooming on the canvas. Zooming can also be adjusted with Ctrl+ and Ctrl-.



## 5. Stream text display control

The stream text display function has been integrated into the centralized Tools panel.



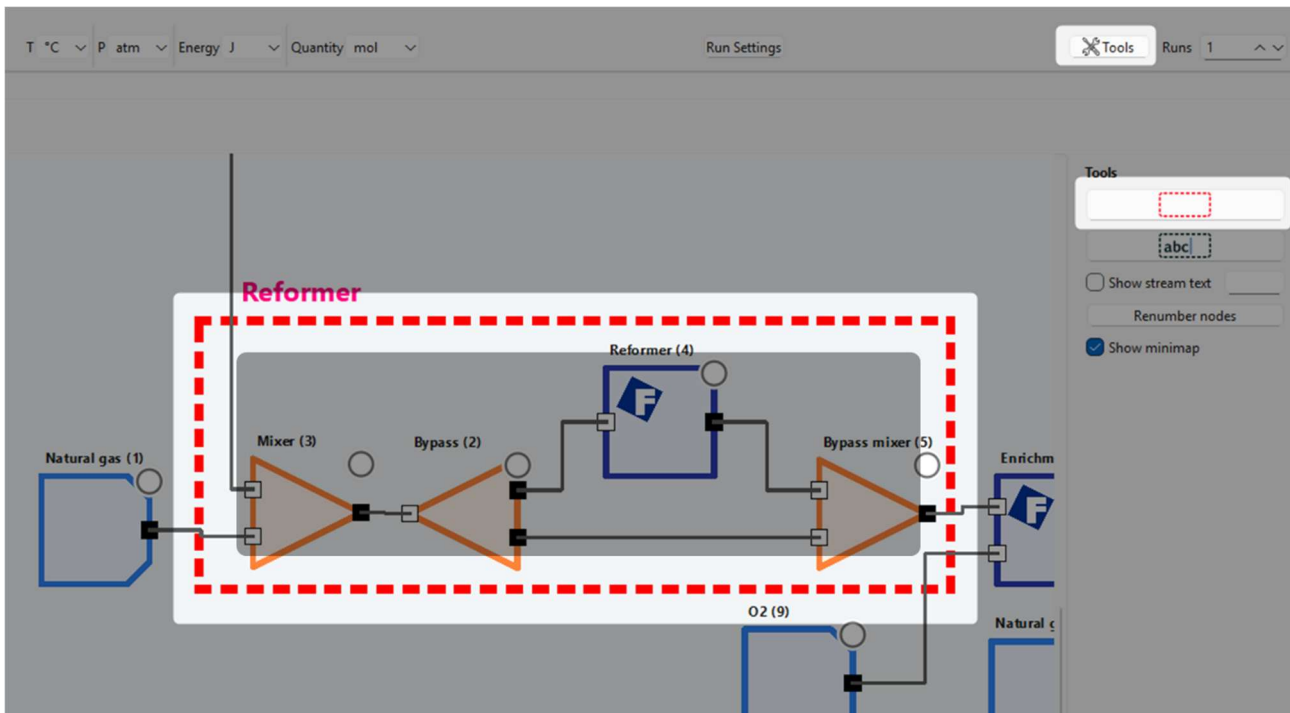
## 6. Text Box

A text box can be added directly onto the flowsheet canvas.

The image shows a process flowsheet with units: Natural gas (1), Mixer (3), Bypass (2), and Reformer. A text box labeled 'Reformer' is placed on the canvas. A Tools panel is open on the right, showing a 'Tools' section with a red dashed box around the text box and a text input field containing 'abc'. Below the Tools panel, a color picker dialog is open, displaying a grid of basic colors, a color spectrum, and a vertical color bar. The color picker shows the selected color as red, with the following values: Hue: 0, Sat: 255, Val: 255, Red: 255, Green: 0, Blue: 0, and HTML: #ff0000.

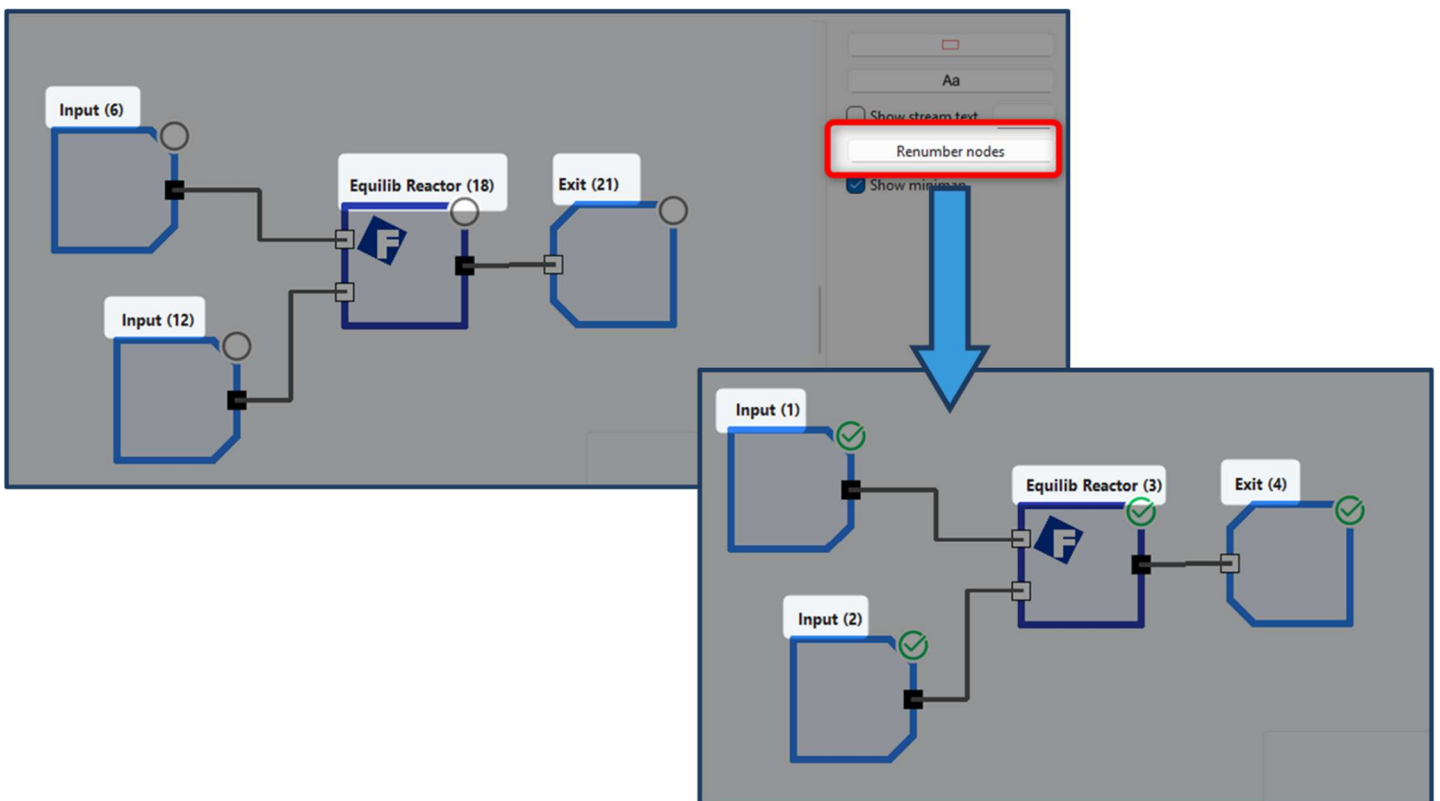
## 7. Frame

A frame can be added on the flowsheet canvas to visually group related unit operations.



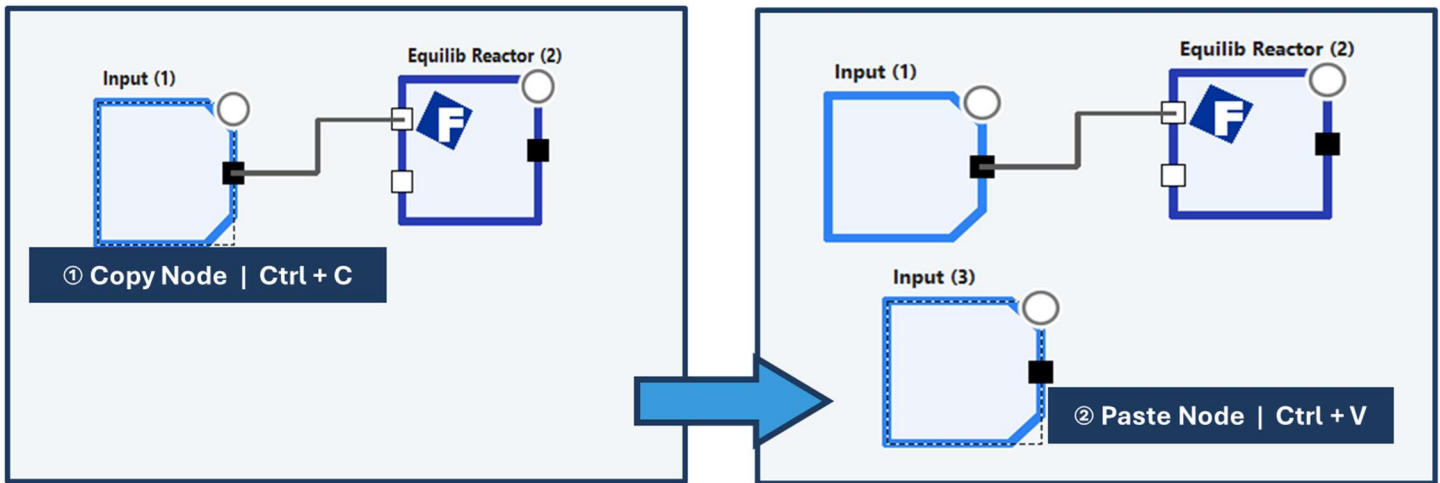
## 8. Renumber nodes

Nodes can be renumbered to remove numbering gaps.



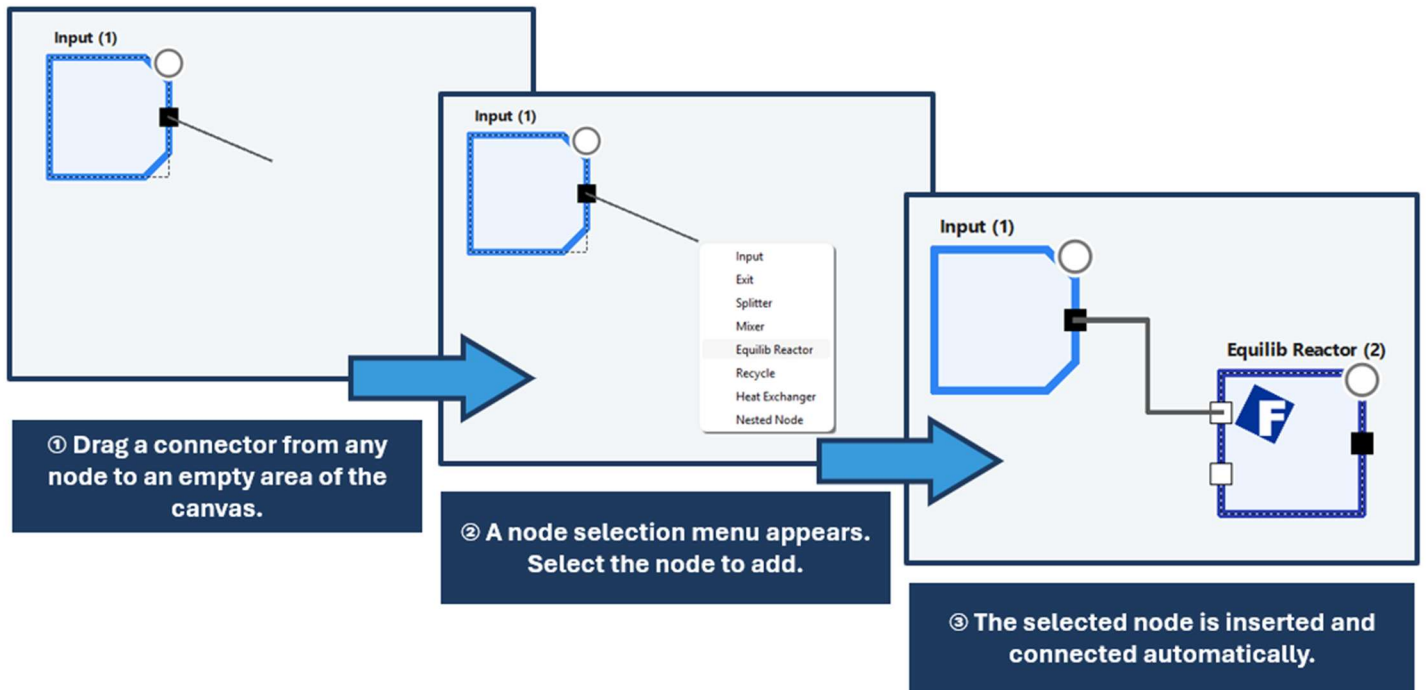
## 9. Copy and paste nodes

Nodes can be copied and pasted using Ctrl+C and Ctrl+V.



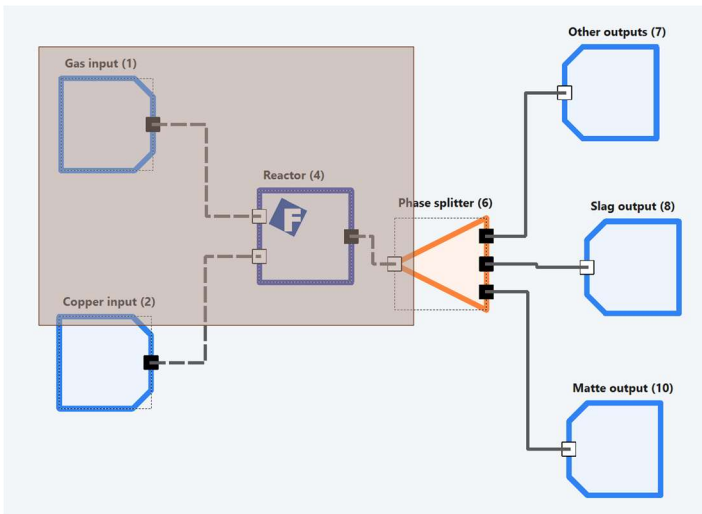
## 10. Add a connected node from a connector

Dragging a connector to an empty area of the canvas now opens a node selection menu. The selected node is then added and connected automatically.



## 11. Box selection

A selection box can be used to select multiple nodes at the same time. This makes it easier to move related nodes together on the canvas.



## 12. Equilibrium conditions in the Equilib Reactor Results window

The Equilib Reactor Results window now displays temperature, pressure, and delta H.

The screenshot shows the 'Results (Reactor 4)' window. It is divided into 'Inputs' and 'Outputs' sections, each with a search bar. The 'Inputs' table lists three items: CuFeS2\_Chalcopyrite(s) (Solid, 920 kg), H2O\_liquid(liq) (Liquid, 80 kg), and gas\_ideal (Gas, 0 kg). The 'Outputs' table lists three items: Matte (Liquid, 856.856 kg), gas\_ideal (Gas, 143.144 kg), and Slag-liq#1 (Liquid, 0 kg). Below the tables, a summary box displays equilibrium conditions: Temperature (°C) is 1250, Pressure (bar) is 2.6, and ΔH (J) is 1633011758.84. At the bottom, there are controls for 'Run' (set to 1), 'Recycling iteration' (set to 1), and buttons for 'Plot', 'Elemental Analysis', 'Show log', and 'Export to Excel'.

Inputs			Outputs					
Name	Phase	Quantity (kg)	Name	Phase	Quantity	Activity	Qty Min (kg)	Qty Max (kg)
CuFeS2_Chalcopyrite(s)	Solid	920	> Matte	Liquid	856.856		652.35	856.856
H2O_liquid(liq)	Liquid	80	> gas_ideal	Gas	143.144		143.144	450.83
> gas_ideal	Gas	0	> Slag-liq#1	Liquid	0			

Temperature (°C): 1250  
Pressure (bar): 2.6  
ΔH (J): 1633011758.84