

**MySep Studio v6.0.2** is released some 7 months after the initial v6.0.0 release, in October 2023. It builds on the foundations of the completely re-factored underlying code base and architecture and the new User Interface. The flexibility and ease of use of the new MySep Studio, has found wide acceptance amongst separation specialists and process engineering practitioners worldwide. This latest release includes new features and addresses a range of issues which became evident as the software has been rolled-out across the wide MySep user-community.

In general, the release includes many bug-fixes which greatly improve stability and robustness. The sections which follow touch on the more significant developments and fixes.

### More Demisting Options

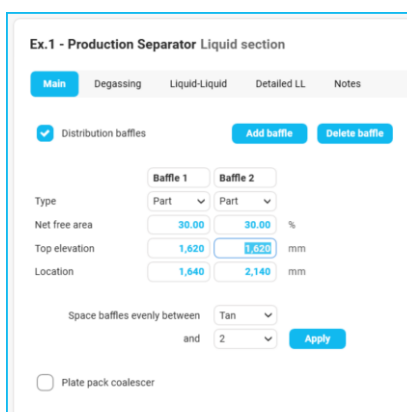
In Design and Rating mode, you can now represent submerged demisting devices and agglomerators, for horizontal vessels (as illustrated in the layout on the page following). Gas sections can be added to form demister or agglomerator boundaries.

### MySep Studio Report

The program produces a comprehensive, professionally-formatted report. This can now include an Operating Envelope and Sensitivity Analysis as optional Appendices. The size of the resulting pdf files have been reduced and various content-reset, and visual aspects of the report are improved.



MySep Studio report



Liquid Section device geometries

### Liquid Section Device Geometries

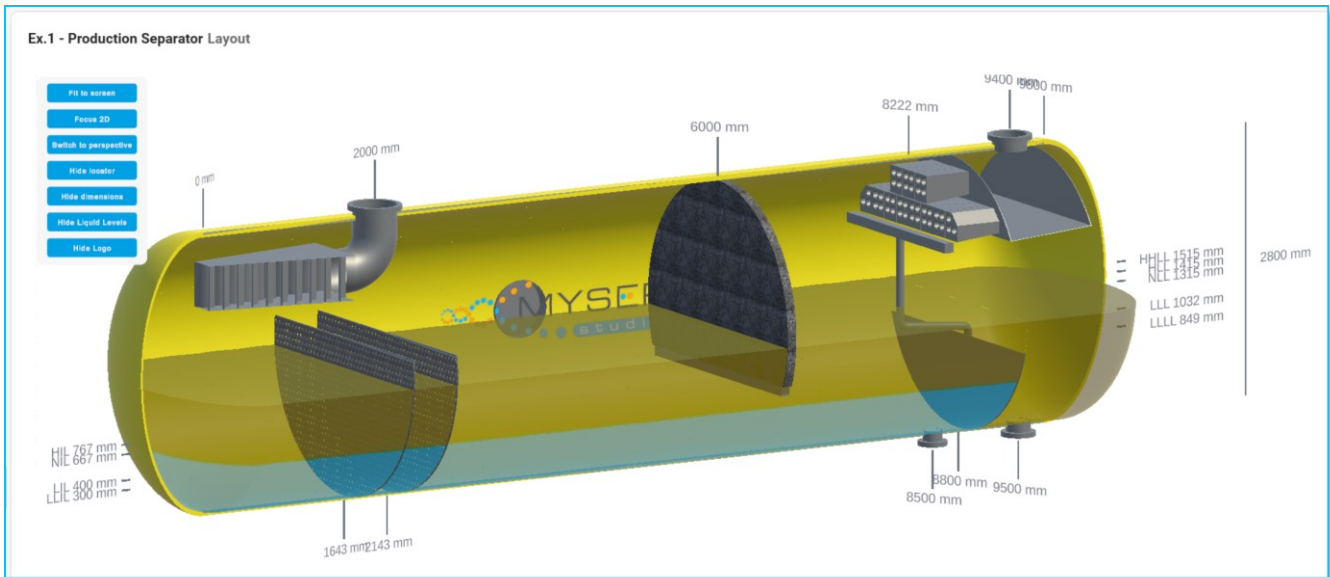
Baffle and plate pack coalescer user-specified geometries are now retained when toggling the selection check boxes on and off. The image shown here, also illustrates improved click behaviour when editing inputs. Throughout the user interface, a click in an input field, highlights all numbers or characters, ready for over-typing or copy-paste.

## Datasheet Generation

It is now possible to create user datasheets using a template which includes Excel macros. A number of minor data transfer issues for datasheets have also been corrected in this release.

## Enhanced Vessel Layout

The updated v6.0 vessel layout has proven invaluable for rating and design, offering visual feedback to engineers. It serves as a crucial communication tool for project teams in across operations and for greenfield design or brownfield revamp study. Notably, this v6.0.2 release includes liquid level visualization within



3-phase vessel layout with liquid levels shown, and featuring a submerged or liquid sealed agglomerator

vessels. This is particularly valuable for 3-phase separator applications and may be toggled off/on. Additional fixes and improvements include:

- More sensitive mouse wheel zoom-control
- MySep logo on vessel inner shell, with on/off toggling
- Re-introduction of warning triangles for undesirable internals configurations
- Proper representation of vertical vessels with body flanges

Description	Actual value	Allowable value	Difference
Agglomerator Agglomerator 1: LL too high (upholing)	1,541 mm	800 mm	741 mm
Agglomerator Agglomerator 1 Drain pipe: LL too low (gas by-pass)	822 mm	849 mm	-27 mm
Demisting Demisting 1: LL too high (re-entrainment)	1,674 mm	1,802 mm	128 mm
Demisting Demisting 1 Drain pipe: LL too low (gas by-pass)	822 mm	849 mm	-27 mm

Description	Actual value	Allowable value	Difference
HLL setpoint exceeded			96 mm
Agglomerator Agglomerator 1: LL too high (re-entrainment)			813 mm
Agglomerator Agglomerator 1 Drain pipe: LL too low (gas by-pass)			25 mm
Demisting Demisting 1: LL too high (re-entrainment)			128 mm
Demisting Demisting 1 Drain pipe: LL too low (gas by-pass)			-27 mm

Vessel simulation

Motion analysis issue-warnings

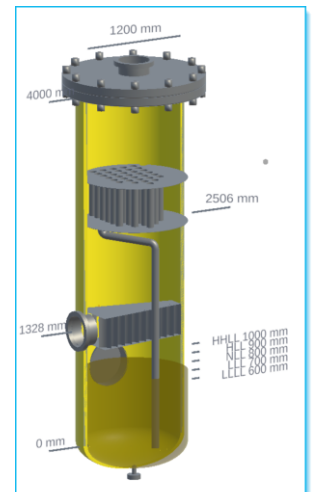
## Motion Analysis

Improved liquid motion visualization and minor fixes to user interface controls.

## Miscellaneous Enhancements

**Results:** – added export button for droplet size distributions.

**Project Overview:** - now includes filename and path.



Layout with body flange

**Simulator communications:** - fixes import of process data from vessels in sub-flowsheets.

**Process data:** – fixes instability when deleting a process case.

**Start Screen:** – hovering over recent case buttons displays the layout of last vessel viewed in each case.

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