

FanTestic Integrity 5.6

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Numerous changes make Integrity fantastic for designers and testers alike.

A Venting Calculator makes it possible for designers to choose pressure relief vents using a worst case scenario, before enclosure leakage can be tested.

The user interface has been streamlined to speed testers through the required steps.

Testers also save time using the improved report generating feature since the nicely formatted reports produced by will require little cleanup.

New Venting Calculator:

Enclosure designers use the Venting Calculator to choose pressure relief vents (PRV) before enclosure leakage can be tested. Enclosure leakage design tab has been added to access the venting calculator without needing to open a test file.

Calculations for the required PRV area to vent peak pressure during discharge are made by assuming the enclosure has the maximum enclosure leakage area that will provide the required hold time. The designer can be sure the enclosure will have at most that much leakage, otherwise the hold time requirement will not be met and the enclosure will be sealed until only that much leakage remains.

If the peak pressure that will result with only enclosure leakage available as venting area during a discharge is above the specified enclosure pressure limit then the designer can determine how big the PRV must be to bring the peak pressure during discharge down.



Major report improvements:

The reports generated in Word have been fully revised yielding one clear page of results for both peak pressure relief and hold time. The rest of the report summarizes the test in logical detail so even an untrained person can follow and understand what has been done. Thus the essential results all appear on the second page after the cover letter and the later pages of the report explain what the test results mean with enough detail to explain exactly what was being done and why so they will act as a brief training course for anyone reading them.

There will be fewer extra pages generated with insufficient information to fill them out saving users time on cleanup after report generation. As always, the report templates are available for licensed users to edit to conform to any required output format. The edited template will be used for all future reports generated automatically.

FanTestic Integrity generates reports from test data if users have a license. Demo and expired licenses only show a sample report that is consistent with the standards to which the user is testing, but do not contain real test data.

Notable:

- New agents were added – NAF S 227 and NAF S 125.
- Formula for peak pressure evaluation with Gaseous CO₂ has been added. The formula closely resembles results for the inert agents regardless of the formulae used.
- Help buttons added on user interface so users don't have to navigate to menu items.
- New manuals in Help section.
- Help menu now includes access to release notes for all versions and the EULA.
- All menus have been revised with clarified text
- Wording has been adjusted to be more descriptive and to match the standards wherever meaningful.
- Some titles and variable names were incorrect and have been fixed.
- Full change log is available through FanTestic Integrity help menu – "release notes"

Updated manuals:

- [Manual - FanTestic Integrity \(Venting Calculator Operation\).pdf >](#)
- [Manual - FanTestic Integrity \(EN\).pdf >](#)
- [Manual - FanTestic Integrity \(ISO\).pdf >](#)
- [Manual - FanTestic Integrity \(NPFA\).pdf >](#)

Explanation of Peak Pressure and Venting Equations:

[FSSA versus VdS Peak pressure prediction for inert agents>](#)

