

FanTestic Integrity Software

FanTestic Integrity Software was developed over a two year period; the analysis methods are fast and verifiable. Quick support can be provided by exchange of fxml files, and is included for 2 years after initial purchase.

Meets NFPA2001 Edition 2012 requirements for:

1. Spec for the "enclosure pressure limit"
2. The calculation "of the maximum peak pressure"
3. A new test that measures the enclosure's "vent area"
4. A new 2 point leakage test that yields a longer hold time

Meets ISO 14520 Edition 2006 requirements for:

1. The calculation of "enclosure pressurization and venting"
2. The upper leakage test for the calculation of F
3. The calculation of the "equivalent sharp interface height, H_e "

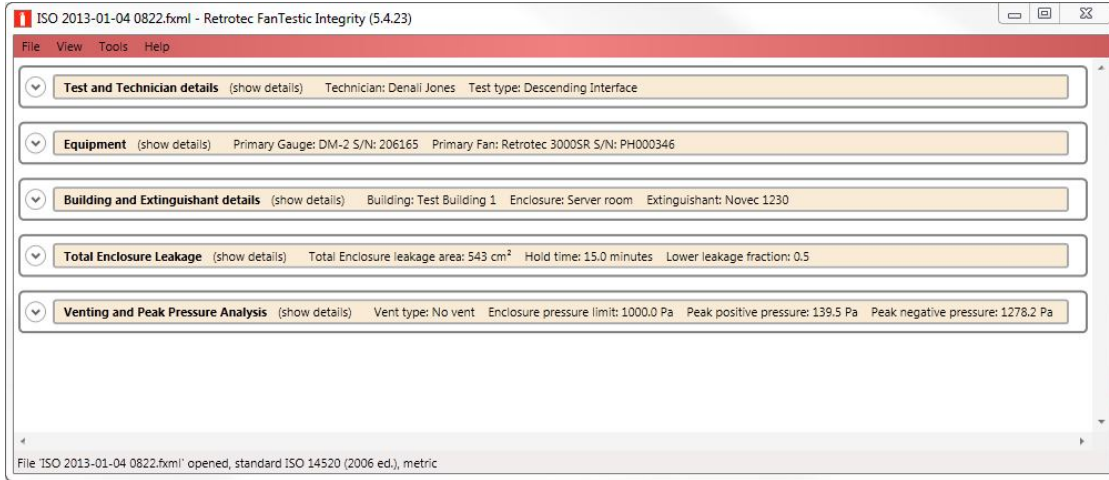
Meets AS 4212 (Australia) for:

1. The calculation of "enclosure pressurization and venting"
 2. The upper leakage test for the calculation of leakage fraction, F
 3. The calculation of the NFPA style "sharp interface height"
- Complies with all the latest editions of enclosure integrity standards
 - Simple xml data storage
 - Easy to use interface – all sections collapse and expand for easy viewing

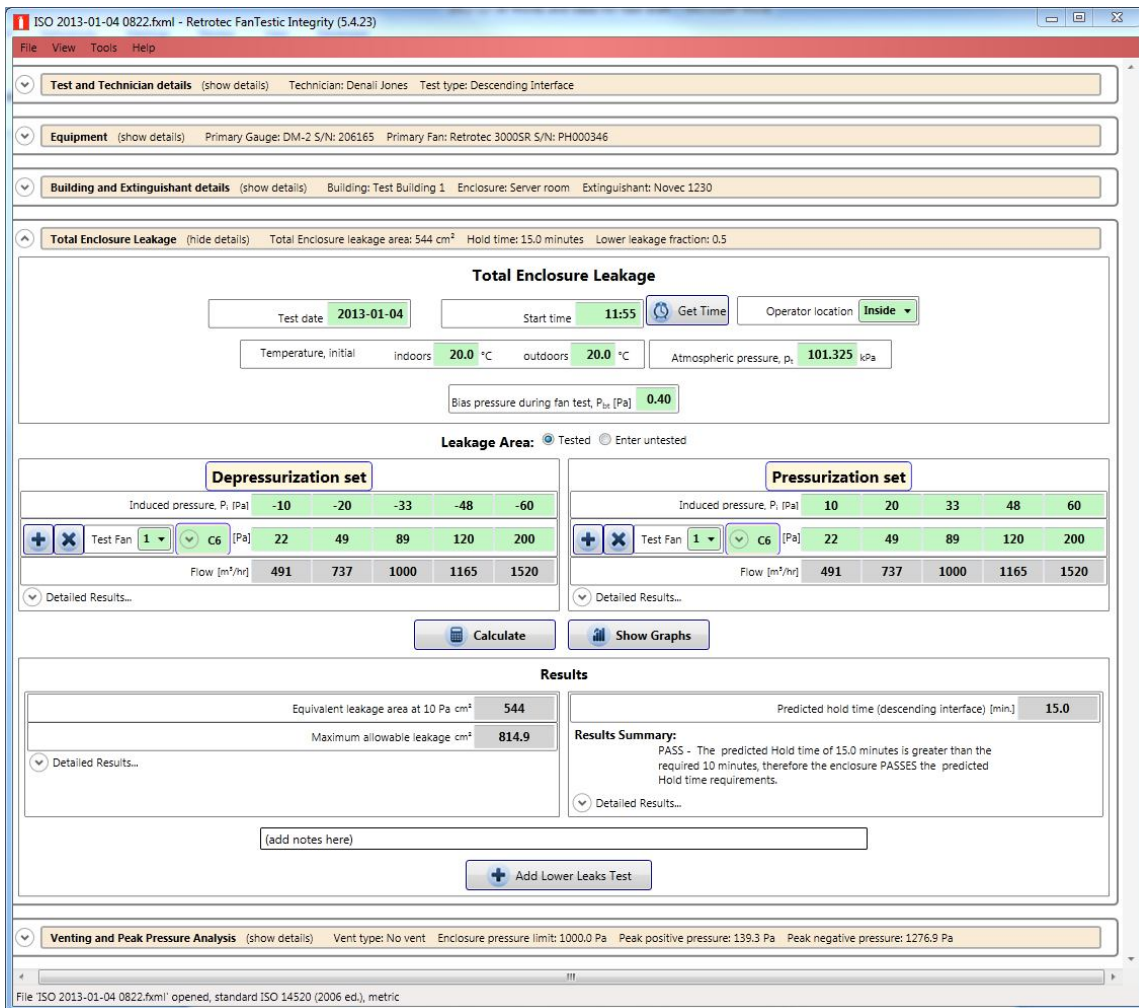
FREE download of a 60 day demo on our website at:

<http://www.retrotec.com/software/integrity/publish.html>





Sections collapse and only reveal needed information but...



Expands to full screen for easy viewing.



Hold Time graph can float over the main screen.

Positive Results

Vent area used, ELA_p	127.7 cm^2
Leak to Volume ratio, LVR_p	0.2 cm^2/m^3
Minimum required leakage, $ELA_{min,pos}$	26.4 cm^2
Additional vent area needed	0.0 cm^2
Positive peak pressure, P_{pos}	661.4 pa

Positive pressure result:

PASSES - Measured ELA of 127.7 exceeds the minimum allowable ELA of 26.4, and the peak pressure of 661.4 Pa is less than the enclosure pressure limit of 1000.0.

Negative Results

Vent area used, ELA_{neg}	91.3 cm^2
Leak to Volume ratio, LVR_n	0.2 cm^2/m^3
Minimum required leakage, $ELA_{min,neg}$	167.9 cm^2
Additional vent area needed	76.6 cm^2
Negative peak pressure, P_{neg}	1218.4 pa

Negative pressure result:

FAILS - Measured ELA of 91.3 is less than the minimum allowable ELA of 167.9. At least 76.6 of venting must be added.

Peak Pressure results are given for both directions for Halocarbons.

Feature comparison

Exclusive feature or advantage of Retrotec's FanTestic Integrity software

	Clean Agent 2001 (CA2001)	FanTestic Integrity (FTI)
Customizable Reports	No	Yes. Reports in Word.
Resizable	No	Yes
Updates online	No	Yes
Comply with NFPA 2001	2000 Edition	2012 Edition which can yield hold times up to 30% greater than 2000 Edition
Comply with ISO 14520	2006 Edition (with companion spreadsheet to calculate the equivalent height, H _e)	2006 Edition H _e calculation embedded in software
Comply With EN15004	No	Yes
Peak Pressure Analysis	Yes but results have proven incorrect when compared to latest research.	Yes, uses latest Peak Pressure values alongside all existing methods such as VdS, FIA, FSSA
ISO14520 Upper Leakage Test.	No	Yes
Data file format	Encrypted, proprietary	.xml files can be read by many programs
Gauges	DM-2	DM-2 and DM32
Multi Point Test	Yes for ISO but not for NFPA (which is required)	Yes for ISO and NFPA
Language	English	Fully: French, Dutch, Russian, Spanish and Portuguese. Partially (basic UI is available but missing specialized terms for integrity testing): German, Swedish, Norwegian, Danish, Italian, Latvian, Polish, Lithuanian
Clean Agents (commercial names)	Argon, Argonite, CEA-410, CO ₂ , FE-13, FE-227, FE-241, FE-25, FE-36, FIC-1311, FM200, Halon 1301, INERGEN, NAF SIII, Nitrogen, Novec 1230, PyroShield,	Argon, Argonite, CEA-410, CF3I, CO ₂ , ECARO-25, FE-13, FE-227, FE-241, FE-25, FE-36, FIC-1311, FM200, Halon 1301, Halotron II, INERGEN, NAF SIII, NAF S 227, Nitrogen, Novec 1230, ProInert, PyroShield, SAPPHIRE

	Clean Agent 2001 (CA2001)	FanTestic Integrity (FTI)
Clean Agents (chemical names)	CO ₂ , FC-3-1-10, FIC-1311, FK-5-1-12, Halon 1301, HCFC Blend A HCFC-124, HFC-125 HFC-227ea HFC-23 HFC-236fa IG-01 IG-100 IG-541 IG-55	CO ₂ , FC-3-1-10, FIC-1311, FK-5-1-12, Halon 1301, HCFC Blend A HCFC-124, HFC-Blend B HFC-125 HFC-227ea HFC-23 HFC-236fa IG-01 IG-100 IG-541 IG-55 IG-55PI Aerosols coming soon

FAQ on FanTestic Integrity

Question	Answer
Can I continue to use my old CA2001 software?	<p>Yes. It will still function but Retrotec can no longer support CA2001 for the following reasons:</p> <ul style="list-style-type: none"> • CA2001 does not have the correct peak pressure formulae and we don't want to be liable for encouraging you to use them. • Standards are out of date. Our new FanTestic Software has the old and new standard editions included. <p>FanTestic Integrity replaces CA2001 for free if purchased in 2012. If purchased before 2012 it's half price until December 31/2013.</p>
Will the license include compliance with new editions?	<p>Compliance will be maintained as new editions of these enclosure integrity testing standards are released. It can be updated automatically over the internet. Available standard selection in FanTestic Integrity is to be expected from the Retrotec development team</p>

Software printouts are first rate allowing you to export to Microsoft Word now and edit into your own fully customizable documents.

FanTestic Integrity Software prices

Pricing is based on the number of fan serial numbers embedded in the software but can be used on any number of computers as long as they are all in the same company at the same location. Licenses run for two years during which time technical support is supplied. After two years the software will remain fully functional, will still update but support is no longer offered free of charge*. This is similar to common maintenance agreements for other software products. Free 60 day trial available on line at:

<http://www.retrotec.com/software/integrity/publish.html>

Contact us for site licenses for larger quantities of fans and technician training.