

FIRE SUPPRESSION

SAFE 'N' SECURE FIRE SYSTEMS

(An ISO 9001:2015 Company)
Government Approved Licenced Agency







SYSTEM INTEGRATORS

FIRE ALARM & DETECTION

FIRE HYDRANT & SPRINKLER

Enclosure integrity testing

As per NFPA, ISO, EN, FIA, VdS Standards





Improve safety and reduce installation costs.

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Halocarbon systems typically are not installed with vents but often need them. Vents are often installed in the wrong direction.

Holdtime and peak pressure analysis required by all standards

Enclosures with a gas suppression system require testing to ensure the installed system is providing the promised protection. Without testing it is possible that an expensive suppression system is not even working as pro mised. By testing the enclosure integrity by measuring the air leakage in an enclosure, the duration of protection by the suppression system can be determined. Furthermore, dangerous peak pressures that develop during a discharge can completely destroy enclosures before any level of sup pression is obtained. After measuring the air leakage in an enclosure the peak pressure can be predicted, which can proof that the peak pressures are maintained within the required limits.

Having written the first Enclosure Integrity Procedure in 1985, Retrotec is recognized as the worldwide authority. Over 3000 clean agent installation companies use Retrotec equipment in over 60 countries. All standards such as NFPA2001 and ISO14520 require a door fan test for hold time and peak pressure analysis based on room leakage.

Only Retrotec specializes in the door fan equipment specifically designed for the enclosure integity procedure. While the model 5100 is typical of a house testing fan, the 6100 and 6200 models are the system of choice because they not only test enclosures that are almost double that of the 5100 but also test at high pressures which are required for the required peak pressure analysis.



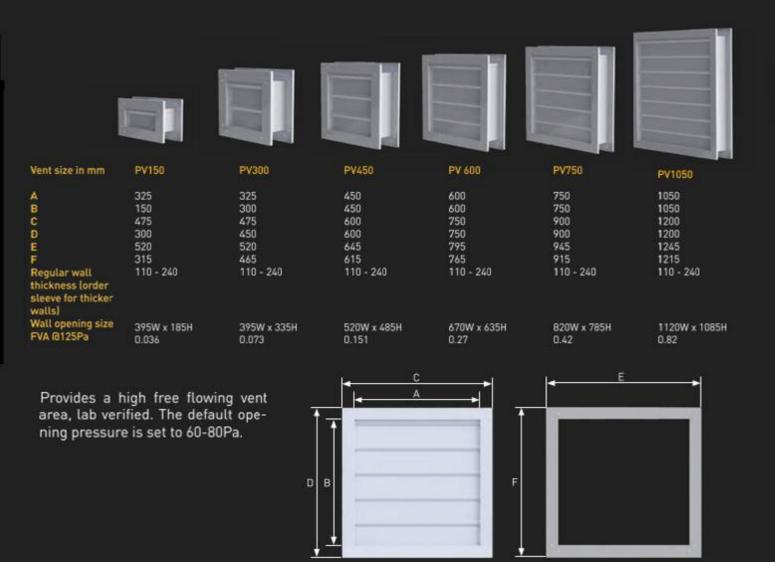
Software

Retrotec FanTestic Integrity software combines hold time and peak pressure analysis in one package and allows the user to test to NFPA, ISO, EN, FSSA, FIA and VdS Standards. It creates custom reports in Word that add value to your testing.

Smoke generators

High quality smoke generators are used to perform repeat smoke testing, such as to identify leakages in enclosures as well as to perform smoke simulations of smoke extract units or smoke simulations for training purposes.





The PV Pressure Vents

The PV range of dual acting pressure relief vents is a new development in the world of pressure relief vents for gaseous extinguishing system. The vents are gravity balanced for fool proof operation, and apart from that the vents are designed to provide a great validated efficiency factor of free vent area at all pressures. The pressure vent blades start to open at above 60 to 80 Pascal's and is designed to be fully open at 125 Pascal's pressure in both directions. The special design provides more than 75% free vent area at 125 Pascal's room pressure, which is measured at the mentioned reference pressure. This means you need less vents, smaller holes, less builders work, smaller vents, and we now provide a greater size range.

The range comes with a 2 hour fire rating to EN1364-1 including certification, as well as verification of its operation. Detailed measurement reports are available upon request.

The PV range is supplied in two kits. One for internal use and one for external use. The PV vent only is used for internal and the PV vent with a louvre is used for external venting. As the vent opens in both directions the external louvre can be provided in a fixed blade louvre or dynamic (more weather proof) louvre.

When mounting the PV range in doors or narrow walls the external wall flange is used as a cover trim.

The standard sized models as mentioned above are available from stock and special sized are available on request on a 6 to 10 week lead time.

Enclosure integrity testing





Retrotec Door Fan selector

Choose your system by determining the maximum enclosure volume you will need to test. Extra power will be useful to measure the actual free vent area with pressure relief vents (PRV) open.

The EU6200F systems will measure lower leaks separately, which will allow enclosures to pass the hold time requirement that would not pass otherwise. This may also eliminate the need for PRV's.

Model	EU-300F.	EU-5100F	EU-6100F	EU-6200F	EU+6300F
Fans	1 x 140 W	1 x 620 W	1 x 1 240 W	2 x 1 240 W	3 x 1 240 W
Panels	42 ⁻ cloth optional	42"cloth	Hard panel & 50°cloth	Hard panel & 50°cloth	Hard panel & 50°cloth
Door width Door height	68 - 112cm 135 - 247cm	75 - 112cm 135 - 247cm	81 - 131cm 151 - 278cm	81 - 131cm 151 - 278 221cm	81 - 131cm 151 - 278cm
Maximum enclosure volume, Inerts	120 m³	1 000 m ³	1 450 m ³	2 900 m ³	4 350 m ³
Maximum enclosure volume, Halocarbons	240 m³	2 000 m ³	3 000 m ³	6 000 m ³	9 000 m²
Measures lower leak	No	No	No	Yes	Yes
Recommended for NFPA and ISO	No	No	Yes	Yes <u></u>	Yes
Can be used for subfloor testing	No	No	No	Yes	Yes
Recommended use	small cabinets	internal use and very small enclosures (budget price)	Basic NFPA and ISO compliant testing	For professional companies requiring to test as per all procedures	For experts who want to test any enclosre size



Systems generally include:

Test fan, DM32 gauge and door panel system. Fan covers, frame case, gauge case, umbilical connectors, chargers and everything you will need to connect to a laptop are included. Quick guides will help you through the test procedure so learning to use our touchscreen gauge is simply a matter of following the pictures. The system accessory case holds every component of your system. The systems are generally provided with our highly recommended Power Tiny smoke generator.

All 5000F and 6000F systems include optional Ranges 74, 47 and 29 to test the smallest enclosures.

Model EU-6100F with clothdoor



Model EU6100F with large cloth panel will fit larger doorways. The powerful 1240 W fan will handle the peak pressure requirements with ease and hence this Retrotec fan type is the only recommended fan to meet NFPA and ISO requirements. It includes the new DM32 WiFi gauge. This system is ideal for larger enclosures up to 1450 m³ for inerts and 3000 m³ for halocarbons.

240 Volt controls.

DM32 with WiFi is included

With its touchscreen control and highly accurate sensors, DM32 is the new benchmark of the industry. Allows tests to be witnessed remotely over the internet. The WiFi connection allows you to connect your computer or phone with the gauge to control it remotely.





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