

The Concept ViCount 180 Smoke System

Professional Leak Testing Solutions



- Extremely persistent smoke with virtually no evaporation
- Recommended for all large volume smoke logging / leak testing applications
- Class leading 0.2µ particle size
- IP 65 Microprocessor
- Machined Heater block, guaranteed for life
- Continuous Smoke Output
- Non Toxic

The ViCount is one of the worlds most capable artificial smoke systems for large volume leak detecting applications.

The unit produces a non toxic, food quality, intrinsically bio-degradable oil based smoke entrained in an inert carrier gas stream. The smoke has virtually no evaporation, enabling dense smoke concentrations to be achieved and maintained in massive volumes, that would require up to 10 water based systems to achieve comparable results.

The smoke produced by the ViCount has a particle size typically 1/10th that of conventional artificial smokes, and hence dramatically less chemical is required to smoke log any particular volume. Smoke can be vented from premises after a building envelope or leak test, leaving no signs or indications that a test has even been carried out.

As a typical example, a single ViCount unit is capable of smoke logging a 20,000m³ building to a 3m visibility in just 39 minutes!!

Buildings or enclosures may be pressurised to force the smoke out of leaks in the building envelope,. This not only rapidly identifying areas of concern, it also allows leakage points to be ranked - simply put, the greater the quantity of smoke being emitted, the bigger the leak.

As with all Concept mains powered systems, the smoke from the ViCount is controllable, from a small wisp to a large plume, and it can be passed through flexible ducting if required.

“As you are aware we have been using the ViCount unit now for some time as our main method of generating smoke for air leakage path identification as part of building airtightness tests. The speed at which the unit builds smoke is very impressive and consistently in line with the guidance given by yourselves.

The nature and density of the smoke produced proves very effective when observed from outside the building giving sufficient time for and allowing easy observation of emerging smoke and leakage paths. The very persistent effect has allowed us to test buildings with volumes up to 40,000 m³ with just two units.”

Building Envelope Technologies

Specification (approx)	ViCount 5000/180/2.2
Size (cm)	55 x 19 x 44
Weight (kg)	20
Heat Exchanger (w)	2200w
Power Supply	230vAC, 50-60Hz
Optional	110vAC, 50-60Hz
Warm up time from cold (min)	4
Duration at max output before refill (min)	85
Smoke Reservoir capacity (nominal ml)	5000
Smoke output (m ³ /min @ 1m visibility)	0-290
Smoke Particle dia (micron, mmd)	0.2
Remote operation	Yes



RAF Hercules undergoing leak test



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