

The Concept Spirit 900 Smoke System



- Winner “Fire Professional” choice
- Water based, non toxic smoke
- Splash Proof Switching
- IP 65 Microprocessor
- Machined Heater block, guaranteed for life
- Continuous Smoke Output
- Peristaltic pump drive
- Controllable smoke, from a small wisp to a large plume

Concept Smoke Systems—Quality Assured

General Specification (approx)	Spirit 900
Size (cm)	55 x 23 x 29
Weight (kg)	13
Heat Exchanger (w)	2200
Power Supply	230vAC, 50-60Hz
Optional	110vAC, 50-60Hz
Warm up time from cold (min)	5
Duration at max output using internal reservoir (2 litre capacity)	40 min
External reservoir capabilities	Any size
Smoke output (m ³ /min @ 2.5m visibility)	0-500
Smoke Particle diameter (micron, mass median diameter)	0.2
Remote operation	Included with every model

The Spirit 900 incorporates a continuously rated peristaltic pump drive system to drive the Smoke Fluid stored in the internal reservoir through it's precision, machined, heat exchanger block. There the Smoke Fluid is vaporised, and the vapour condenses on reaching atmosphere to form a dense, controllable and non-toxic smoke.

The temperature of the heat exchanger is controlled by a PID (proportional) microprocessor temperature controller, and the heaters within the unit are switched by a solid state relay to ensure optimum reliability.

Two types of Smoke Fluid can be used in the Spirit 900: Smoke Fluid A produces an incredibly persistent smoke, ideal for large volume smoke logging, BA training, leak testing etc. Smoke Fluid B produces a dense smoke that evaporates very quickly, and is well suited to applications where external venting of the smoke is not practical.

As with all Concept mains powered systems, the smoke from the Spirit 900 is controllable, from a small wisp to a large plume, and it can be passed through flexible ducting if required.

In terms of safety, the water-based smoke produced by the Spirit 900 has been rigorously tested by independent laboratories and authorities to ensure that it is both safe and non-flammable.

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