

Vulcan Twin Helix 2.8kw smoke system



- Almost 2.5 x the output than the famous ViCount
- Twin helix precision machined 2.8kw heat exchanger, guaranteed for life
- Rapid fill 5Ltr smoke fluid reservoir
- Extremely persistent smoke in turbulent conditions perfect for PPV training & resistant to 200°C
- Recommended for all large scale BA applications & large volume smoke logging / tunnel tests
- Splash proof switching & IP 65 Microprocessor temperature control
- Continuous high quality smoke output

General Specification (approx)	Vulcan 180 2.8kw
Size (cm)	52 x 24 x 42
Weight (kg)	28
Heat Exchanger (kw)	2.8
Power Supply	230vAC (+10%/-6%), 50-60Hz
Optional (special order only)	110vAC, (+10%/-6%), 50-60Hz
Warm up time from cold (min)	4
Duration at max output before refill (minutes)	35
Duration at 60% output before refill (minutes)	65
Smoke reservoir capacity (nominal ml)	5000
Smoke output (m ³ /min @ 5m visibility) 2.8kW	0 - 4050
Smoke particle dia (micron, mass median dia)	0.2
Temperature Control	Full PID
Heater Switching	Solid State Relay
Remote operation	Included with every model

The Vulcan unit produces a non-toxic smoke, made up from pharmaceutical grade chemical, entrained in an inert carrier gas stream. The smoke is resistant to 200°C before layering occurs (compared to 40-50°C for most water based smoke systems) enabling dense smoke concentrations to be achieved and maintained in hot fire simulators throughout the world.

The smoke, although intrinsically bio-degradable is extremely persistent, dramatically outlasting even the best water based smokes in ambient temperature conditions, and under high airflow conditions. This makes the Vulcan the smoke system of choice for large, fixed BA complexes, with or without heat, as well as for major emergency exercises / tunnel testing etc

A single Vulcan is capable of smoke logging an entire road tunnel, 250.000 m³, 3.5km long with smoke.



Heat Exchanger Technology

At the heart of every ViCount & Vulcan is a precision machined heat exchanger chamber, where the smoke oil mist and inert gas is heated. This precision, with machining down to H6 to tolerances, produces a smoke effect with the smallest particle size in its class. This means that in a Hot Fire compartment very dense concentrations can be achieved without forming a flammable atmosphere – one of the key reasons that Hot Fire / BA specialists throughout the world use Concept Smoke Systems.

Concept Smoke Systems Ltd

www.conceptsmoke.com e: sales@conceptsmoke.com

