

The Concept Colt 4 Portable Smoke System

Simple, effective leak testing!



- Compact and Robust
- Off Power Capability
- Water based, non toxic smoke
- NATO codified
- Highly Persistent Smoke for smoke logging large volumes
- Controllable smoke, from a small wisp to a large plume
- Class-leading particle size 0.2 micron mass median diameter

General Specification (approx)	Colt 4	Colt 4 Turbo
Size (cm)	37 x 15 x 20	37 x 15 x 20
Weight ((kg)	5.5	7
Heat Exchanger (w)	1100	2200
Power Supply	230vAC, 50-450Hz*	230vAC, 50-450Hz*
Optional	110vAC, 50-450Hz*	110vAC, 50-450Hz*
Warm up time from cold (min)	5	4
Duration of aerosol at max. output (min)	14	8
Smoke output (m ³ /min @ 1.5m visibility)	0—125 fully adjustable	0—233 fully adjustable
Smoke Particle diameter (micron, mmd)	0.2	0.2
Operation "Off Power"	Basic and Hybrid versions	Basic and Hybrid versions
Remote operation (*50-60Hz only)	Hybrid version	Hybrid version

A compact, portable and powerful smoke generator, used worldwide in medium volume leak testing and air tracing applications.

In its Basic format, the Concept Colt has the ability to produce a considerable amount of smoke "off power" using the retained energy within its high mass heat exchanger block. This allows an operator to carry the generator from room to room, making smoke as required, without a trailing electrical lead. The Hybrid version allows for both "off power" and "remote" operation (the latter only applying whilst power is connected).

Simple to operate, the Concept Colt is a favourite with those involved in containment testing. Unlike conventional water based smoke systems, the Colt 4 smoke has a class leading persistency, enabling relatively large volumes to be effectively smoke logged with this unit. The recently introduced Colt 4 Turbo Basic is one of the most powerful hand-held systems available today.

The principle of operation is straightforward.

Smoke chemical, stored in a one-piece aluminium, fully recyclable canister is forced under pressure through the precision machined heat exchanger, where it is vaporised. The vapour condenses to form a "smoke" effect with a particle size an order of magnitude smaller than most "conventional" smoke systems, which means that dense smoke can be achieved for substantially lower concentrations of chemical in the atmosphere.

The resulting smoke has been analysed by independent laboratories to ensure that it is both non-toxic and non-flammable. Canisters re-seal after use, so no wastage occurs, and part-used canisters can be utilised later. Smoke from the systems can be ducted if required.

Concept Engineering Ltd

7 Woodlands Business Park
 Woodlands Park Avenue
 Maidenhead, Berks SL6 3UA, UK
 Tel +44 (0)1628 825555 Fax +44 (0)1628 826261
 E Mail: info@conceptsmoke.com



www.conceptsmoke.com