

# — Concept —

## COMET 4 'COLT'

### smoke generators



- High Smoke Output
- Safe
- Reliable and Simple to Operate
- Low Running Costs
- Hand Portable
- 'Off Power' facility or 'Remote' facility



Concept Engineering Limited,  
7 Woodlands Business Park,  
Woodlands Park Avenue,  
Maidenhead,  
Berkshire, England SL6 3UA  
Tel: 062 882 5555 (4 lines)  
Fax: 062 882 6261

## GENERAL INFORMATION AND SPECIFICATIONS ON THE COMET 4 'COLT'

The 'Colt' smoke generator is based on Concept's best selling Comet 4, used and accepted throughout the world by Armed Forces, Fire Brigades, Health Authorities, Asbestos Removal Contractors and Industry in general. For entertainment purposes Concept's products are widely used by leading Television companies, Theatres, Discotheques and Film Studios.

The 'Colt' has been developed as a completely portable, compact alternative to the Comet 4.

### THE SMOKE

- High output of dense, persistent smoke
- Non toxic
- Non flammable
- Water based
- May be passed through long lengths of flexible ducting, using a ducting adaptor

### THE GENERATORS

#### COMET 4 'COLT' BASIC

- Thermostatically controlled heat exchanger
- 'Off-Power' facility
- Compact and lightweight
- Variable output
- Exceptionally simple to use

#### 'OFF-POWER' FACILITY

The 'Colt' Basic can produce a large quantity of dense, dry smoke whilst disconnected from the power supply, once the generator has achieved normal operating temperature.

This facility allows the operator a great deal of flexibility and makes the 'Colt' ideal for on-site training, testing and visual effects.

#### COMET 4 'COLT' REMOTE

Physically similar to the BASIC machine, this model can be operated either from the generator itself or, using the remote control lead supplied, from up to 5 metres away. This model cannot be used 'Off Power'.

### PRINCIPLES OF OPERATION

Concept's unique smoke fluid, contained in a sealed aerosol cannister and pressurised by nitrogen gas, is forced into a thermostatically controlled heat exchanger, where it is vapourised. The vapour condenses on reaching normal atmosphere, and a dense, safe and dry smoke is formed.

### SAFETY

The unique Concept smoke fluid formulation is already used and proven in the Comet 4 range of generators, where the smoke produced has been analysed by both independent laboratories and the Health and Safety Executive to ensure that it is non toxic and non flammable.

### TYPICAL APPLICATIONS

- Breathing Apparatus Training and all areas of Survival Training
- Evacuation Training and Fire Simulation
- Leak testing of buildings, ductwork, enclosures etc.
- Airflow Visualisation Tests
- Visual Effects for television, theatre, film studios and discotheques

### SPECIFICATIONS (approximate)

Weight: 5.5kg

Size: 480mm x 165mm x 250mm

Finish: Epoxy Powder Coat

Power Supply: 220v, 50Hz, 5 amp  
(110v, 60Hz, 10 amp optional)

Power Consumption: 1100w

Warm up time from cold: 5 minutes

Duration of aerosol (maximum output): 18 minutes

Smoke output: 31m<sup>3</sup> per minute at 1.5m visibility  
(variable from zero to maximum)

Operation: Basic – Push button, spring return

Remote – Switch (on generator and remote control lead)

### A COMET 4 'COLT' IS SUPPLIED COMPLETE WITH:

1 Comet 4 aerosol cannister

Operating Instructions

Service Kit

Remote control lead ('Remote' model only)

### OPTIONAL EXTRAS

Ducting Adaptor

Flexible ducting

Comet 4 Aerosol Cannisters (box of 12)

# — Concept —

## Engineering Limited

If you require further information regarding the type of machine most suitable for your application please contact our technical department.  
Design, technical advice and installation facilities are available.  
All Concept smoke generators and accessories are available for hire and full after sales service is provided.  
For a full list of optional extras and spares please see our price list.

## CONCEPT SMOKE GENERATORS

Used worldwide where quality counts