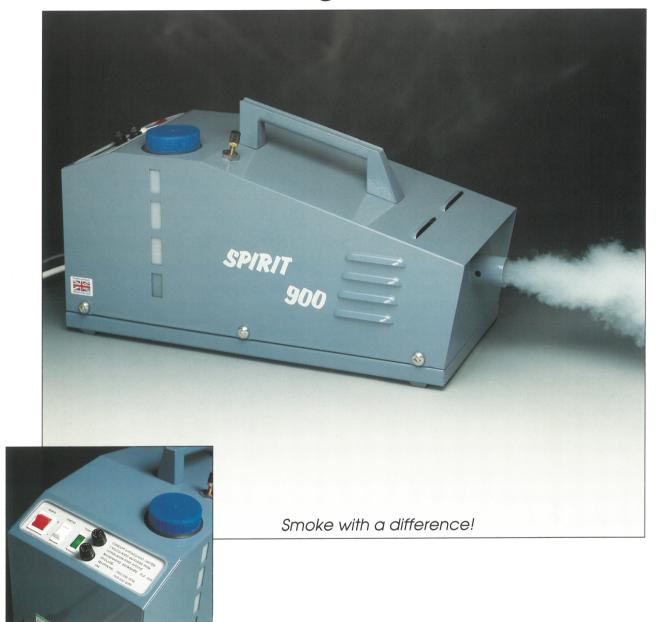
Concept

SPIRIT 900

smoke generators



- Exceptionally High Continuous Smoke Output
- Variable Smoke Output
 Integral Sight glass
- Fitted with Remote Control and 'Plug In' Electronic
- Temperature Control Safe Reliable and Simple to
 - Operate Low Running Costs Light and Portable



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GENERAL INFORMATION AND SPECIFICATIONS ON THE SPIRIT 900 SMOKE MACHINE

The Spirit 900 from Concept represents a new generation of smoke machine, combining an exceptionally high ouput of dense and safe water based smoke with the very latest in terms of solid state electronic temperature control. The unit, supplied complete with a 5 metre remote control unit, is made to exacting standards, yet is economically priced with low running costs.

The Spirit 900's many features may be summarised as follows:

THE SMOKE

- Exceptionally high, continuous smoke output
- Choice of two, water based, non toxic, non flammable smoke fluids -Smoke Fluid A — produces a dense, persistent smoke. Smoke Fluid B — produces a quickly dispersing smoke.
- May be passed through long lengths of flexible ducting, using a ducting adaptor

THE GENERATOR

- 'Plug In' Electronic Temperature and Smoke Control Module — resulting in solid state reliability
- High performance, continuously rated pump
- Produces *continuous* smoke at full output if required
- Variable output
- Supplied complete with 5 metre remote control unit at no extra cost
- Lightweight and compact
- Rugged, modular construction
- Integral sight glass for easy monitoring of Smoke Fluid
- Exceptionally simple to use
- Backed by Concepts comprehensive 12 month warranty

PRINCIPLES OF OPERATION

Spirit Smoke Fluid A or B contained in the machine's internal fluid reservoir is pumped into a precision heat exchanger, where it is vapourized. The vapour condenses on reaching normal atmosphere, and a dense, safe and dry smoke is produced.

The facility to pump from either the internal or an external fluid reservoir is offered as an optional extra, allowing one to produce virtually limitless quantities of continuous smoke, dependent only by the size of the external fluid

The Spirit 900's 'Plug In' Electronic Temperature and Smoke Control module constantly monitors the heat exchanger, and will not allow smoke to be made until the correct working temperature has been reached. Once this has been achieved smoke may be produced without interruption.

The high performance pump fitted to the Spirit 900 contains no mechanical seals and is virtually silent in operation.

SAFETY

Spirit Smoke Fluid is a unique Concept formulation already used and proven in the Comet 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. The Spirit range of generators are also approved by the United States Navy for creating safe and realistic fire training environments.

TYPICAL APPLICATIONS

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

SPECIFICATIONS (approximate)

Weight: 13.3kg (29 lb)

Size: 550mm x 235mm x 290mm (21" x 9" x 11")

Maximum Smoke Output — continuous: 97m³ per minute

at 1.5m visibility

Duration at maximum output using internal reservoir: 40 minutes Power Consumption: 2270 watts

Power Supply: 110V/120V 60Hz: 20 amps 220V/240V 50Hz: 10 amps

Heat up time from cold: 3 minutes

A SPIRIT SMOKE MACHINE IS SUPPLIED COMPLETE WITH:

2 Litres Spirit Smoke Fluid (as specified) 5 metre Remote Control Unit Operating Instructions Service Kit

OPTIONAL EXTRAS

Ducting adaptor Flexible ducting (75mm diameter) Spirit Smoke Fluid (5 litres) External reservoir facility

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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.

In accordance with our ongoing commitment to product enhancement, Concept reserve the right to alter specification without prior notice.

CONCEPT SMOKE GENERATORS Used worldwide where quality counts