

Concept SDT

Smoke Detector Testing system



SDT specification	
Size (mm)	230 x 620 x 460
Weight (kg)	17
Heat Exchanger Wattage	400w
Chimney wattages	4 x 160w
Particle size (micron mmd)	0.2
Operating pressure (bar)	0—3.5
Power supply standard Variant	220v, 50-60 hz 110v, 50—60 hz
Power supply “Aviator” variant	110v, 50 —450hz
“T” variant (programmable on & rest periods)	Adjustable 0.1-999 secs

The Concept SDT is designed to produce consistent, repeatable volumes of thermally buoyant, non toxic, non contaminating smoke to assist in the testing and installation of smoke detectors.

Unlike conventional water based smokes, the smoke produced by the SDT is resistant to extremely high temperatures. The SDT incorporates a thermal chimney with 4 independently switched, 160w air heaters, into which the smoke is introduced. The air within the chimney rises, carrying with it the temperature resistant smoke, and an effective, repeatable and consistent thermally buoyant smoke effect results, which will activate ionisation, optical, beam and aspirating smoke detectors. The smoke output is fully controllable, from a wisp of smoke to a large plume.

The standard SDT incorporates a stainless steel through tube which allows smoke generation directly through the chimney if required and the attachment of 50mm flexible ducting, so that it can be used as a conventional smoke generator as well.

Other variants include:

- Ultra Low Variant** optimised for extra smooth smoke at very low output levels—**with adjustable particle size**
- T Variant** which allows programmable bursts of smoke / rest periods to be set (adjustable to 0.1 sec increments)
- H Variant** heated fluid tank for consistent viscosity of smoke chemical
- Aviator Variant** capable of operation from 110-120v, 50—450hz supply

The SDT type smoke is approved by the CNPP

All SDT variants feature

- Solid State Switching of heat exchanger
- Inert gas carrier purge
- Remote operation
- Thermal Cut Out
- Machined Heat exchanger chamber
- PID microprocessor control
- Sub Micron particle size (0.2 micron mmd)

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