



- Smoke is temperature resistant to 200 °C
- Extremely persistent smoke
- Recommended for all fixed BA applications and large volume smoke logging / tunnel testing
- Splash proof switching
- Machined heater block, guaranteed for life
- Continuous smoke output
- Controllable smoke, from a small wisp to a large plume

General Specification (approx.)	PS31ST	PS33HI
<b>Size (cm) (L x W x H)</b>	35 x 19 x 44	55 x 19 x 44
<b>Weight</b>	13kg	20kg
<b>Heat exchanger wattage</b>	1,100 watts	2,200 watts
<b>Power Supply</b>	230v, 50hz (110v, 50/60hz optional)	230v, 50hz (110v, 50/60hz optional)
<b>Warm up time from cold</b>	4 minutes	4 minutes
<b>Fluid tank capacity</b>	1.3 litre	5 litres
<b>Smoke output (m3/min @ 1m visibility)</b>	150	290
<b>Duration at max. output before refill</b>	40 minutes	85 minutes
<b>Particle size (mass median diameter)</b>	0.2 micron	0.2 micron

The Phantom is one of the world's most capable smoke systems.

The unit produces a non toxic, food quality, oil based smoke entrained in an inert carrier gas stream. The smoke is resistant to temperatures of up 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 produced by the Phantom is also extremely persistent, dramatically outlasting even the best water based smokes in ambient temperature conditions. This makes the Phantom the smoke system of choice for large, fixed BA complexes, with or without heat, as well as for major emergency exercises. The UK's Fire Service Colleges Urban

Search and Rescue centre for example utilises the Phantom.

Typically, 2 x Phantom PS33HI systems would be capable of filling **an entire road tunnel** (250,000 m3 plus) with smoke.

The smoke from the Phantom is controllable, from a small wisp to a large plume, and it can be passed through flexible ducting if required.

The Phantom smoke system is virtually maintenance free. At the end of every smoke operation the heat exchangers and filters are automatically purged with a small amount of inert gas, ensuring consistent performance, day in, day out.