

Generating Power

Project Name:

Avon Fire & Rescue HQ - Bristol

Client Name: Avon Fire & Rescue



Project Summary

Power Electrics (Bristol) Ltd. has just completed the installation of a 100KVA generator into Avon Fire and Rescue Headquarters in Bristol. The super silent set will ensure the site remains fully operational should a disruption to the power supply occur.

Avon Fire and Rescue covers an area of 134,753 hectares, and a population of almost 1,000,000. It provides fire fighting, fire safety and rescue operations to Bath and North East Gloucestershire Unitary Authorities.

With responsibility for such a wide area, it is vital that the hub of Avon's Fire and Rescue operations is not affected by a power failure. The new generator will be used to maintain IT connections and part of the management structure at the headquarters.

Power Electrics also service and maintain a generator that was installed when the station was built in the 1970's. This generator provides backup to the station itself which is the main fire station in the area.

Equipment Summary

Generator – F.G. Wilson Eng. continuously rated model P100P1, 100KVA, 80KW, 139 Amps, 230/400 Volts, 3 Phase, 50Hz AC diesel driven.

Control Panel – FG Wilson Eng. 4001E auto start control panel. Complete with automatic shutdown protection for low oil pressure, high engine temperature, overspeed, fail to start and fire.

Engine – Perkins 4008 TG2A – 6 cylinder in-line formation, water cooled turbo charged.

Alternator – Leroy Somer single bearing brushless design – directly coupled to the engine, complete with permanent magnet, R438 regulator and 3 Phase sensing module.

Enclosure – FG Wilson Eng. weatherproof close fit 'Super Silent Hushgen' enclosure, full load rated at 77dBA @ 1 mtr.

