

FireDrench



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FIRE SPRINKLER PUMP SET

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APPLICATIONS
ENGINEERING LTD

FireDrench

RANGE OF PUMP SETS & KITS

DESIGNED FOR THE RESIDENTIAL AND
DOMESTIC FIRE SPRINKLER MARKET

- The range includes Pump Kits, Cat 1 pump sets & Cat 2-4 pump sets
- Pump sets fully assembled
- Plug & play, no extra parts required unlike other pump sets on the market
- Customisable, happy to move or add parts to customers spec, e.g. recirculation line & inlet available on either side
- BS 9251:2021 compliant
- Short lead time on pump sets, express builds of as quick as 3 days available on request

RANGE OF PUMP SETS & KITS



AE-FD-CTU-3

Category	Cat 2-4
Lead time	In Stock

HORIZONTAL RANGE

Assembly	Supplied as pump set
Category	Cat 2-4
Max Pressure	16 bar
Lead time	12 Day Build

VERTICAL RANGE

Assembly	Supplied as pump set
Category	Cat 2-4
Max Pressure	16 bar
Lead time	12 Day Build

UPS

Uninterrupted Power Supply	
Category	2-4

Pump Curve delivery is at the pump outlet only, not the system outlet, so is subject to suction conditions (i.e. pressure drop from tank to pump inlet).

AE-FD-CTU-3



PRODUCT OVERVIEW

- Fully Complaint to BS 9251:2021
- Automatic sprinkler pump control with intelligent monitoring
- Supports Category 1–4 residential sprinkler systems
- Automatic programmable weekly pump testing
- Fire, Assumed Fire, Jockey and Cooling operating modes
- Comprehensive fault monitoring with configurable inputs
- 5,000-event log with battery-backed real-time clock
- USB firmware updates and configuration backup
- Soft starter and Priority Demand Valve (PDV) compatibility
- Simple commissioning via intuitive LCD user interface

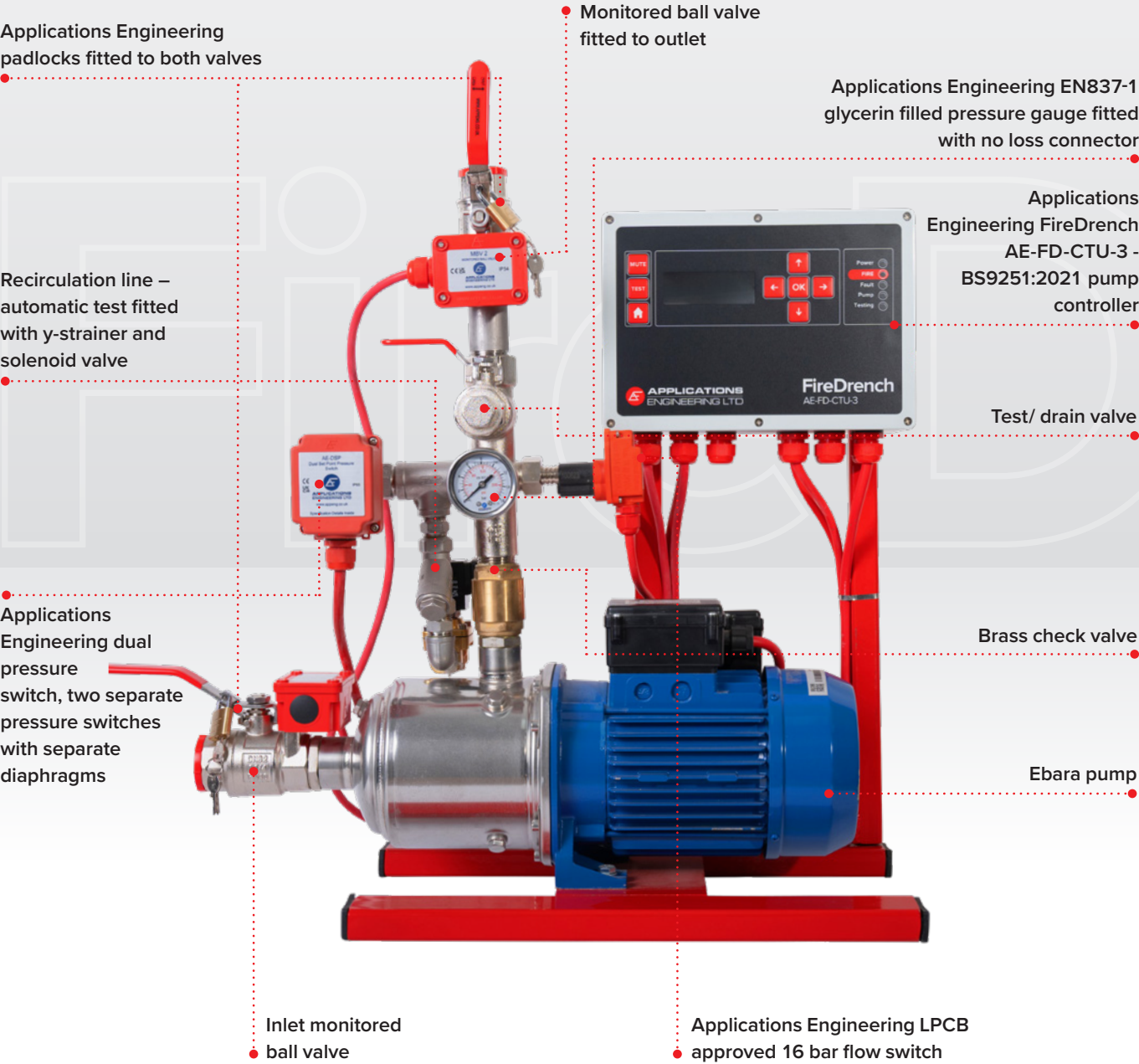
SPECIFICATION

Supply Voltage	230 VAC, 50 Hz
Maximum Pump Output	230 VAC, up to 3 kW
Event Log Capacity	5,000 Events
Display	LCD with navigation keypad
Fire Relay	Volt-free output
Fault Relay	Volt-free output
USB Interface	Firmware & Configuration
Real-Time Clock	Battery backed
Mounting	Wall mounted
Enclosure	IP-rated polycarbonate

INPUTS

- Flow Switch
- Pressure Switch 1
- Pressure Switch 2
- Level Switch
- Ball Valve 1
- Ball Valve 2
- Motor Phase Failure
- Soft Starter Failure
- Three configurable spare monitored inputs

HORIZONTAL RANGE



PRODUCT OVERVIEW

- Fully compliant to BS9251-2021
- Applications Engineering pump sets come fully assembled with no extra parts required
- Plug and play unit, no excess wiring required
- Ball valve fitted to outlet & suction line, so no need to install extra ball valves like other manufacturers
- Market leading FireDrench Pump controller with built in LCD screen
- Includes dual pressure switch & LPCB approved flow switch
- Fully tested to each projects flow and pressure requirements
- 12 Day Build with express build available for extra charge

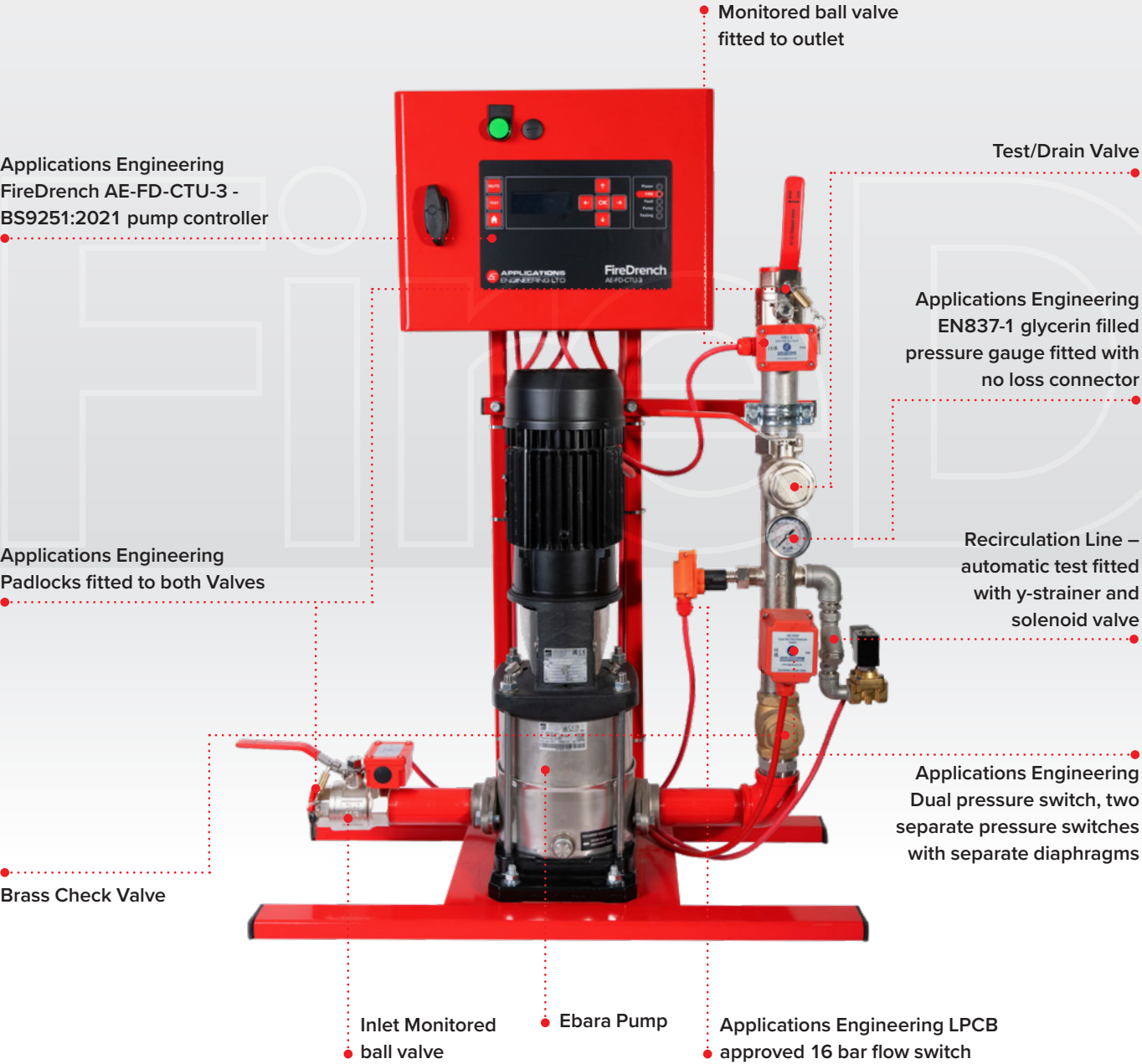
SPECIFICATION

Category	2-4
Cable	FP200
Flow Range	20-450 l/min
Pressure Rating	PN16
Starting Type	DOL

MATERIALS

Manifold	Nickel Plated Brass
Valves	Nickel Plated Brass
Fittings	Stainless Steel
Solenoid Valve	Brass
Flow switch	Brass (pressure retaining parts)
Pump Casing	Stainless Steel
Pump Impellers	Stainless Steel
Base Plate	Powder-coated mild steel

VERTICAL RANGE



PRODUCT OVERVIEW

- Fully compliant to BS9251-2021
- Applications Engineering pump sets come fully assembled with no extra parts required
- Plug and play unit, no excess wiring required
- Ball valve fitted to outlet & suction line, so no need to install extra ball valves like other manufacturers
- Market leading FireDrench Pump controller with built in LCD screen
- Includes dual pressure switch & LPCB approved flow switch
- Fully tested to each projects flow and pressure requirements
- 12 Day Build with express build available for extra charge

SPECIFICATION

Category	2-4
Cable	FP200
Flow Range	80-1000 l/min
Pressure Rating	PN16
Starting Type	Soft Starter

For Category 4 pump sets, we would advise a duty standby pump set to comply with BS9251:2021. Our Duty standby pump sets are supplied on another separate skid to allow ease of transportation.

MATERIALS

Manifold	Nickel Plated Brass
Valves	Nickel Plated Brass
Fittings	Stainless Steel
Red Pipe	Powder-coated Black Iron
Base Plate	Powder-coated mild steel
Solenoid Valve	Brass
Flow switch	Brass (pressure retaining parts)
Pump Casing	Stainless Steel
Pump Impellers	Stainless Steel

FireDrench UPS

UNINTERRUPTED POWER SUPPLY



PRODUCT OVERVIEW

FireDrench UPS is our range of transformerless online uninterruptible power supply (UPS) systems, designed to cover our FireDrench range of fire sprinkler pump sets.

- Designed to maximise availability, efficiency and performance
- Footprint – ACT Less than 0.35 m² footprint, 380 mm x 850 mm x 1025 mm (W x D x H)
- Footprint – XTD Less than 0.4 m² footprint, 440 mm x 840 mm x 1320 mm (W x D x H)
- Available in 10-15-20-30-40-60-80-100-120 kVA versions
- Large 5-inch colour touchscreen display shows UPS status, load, and battery level
- 96.6% operating efficiency (ONLINE mode) reduces energy waste
- High overload and short circuit capacity guarantees availability
- Parallel up to 8 UPS for extra capacity or redundancy
- LED indicator automatically changes colour depending on the UPS's status
- Sprinkler-proof Enclosure designed specifically for FireDrench UPS also available



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