SINGLE DIESEL FIRE PUMPSET HYDRANT & SPRINKLER BOOSTER

OVERVIEW

The All Purpose Pumps Dominator Single Diesel Fire Pumpset is a complete booster package, factory assembled and tested to AS 2941. It is most commonly used in buildings under 25 m high on an in-line boost set-up. Each set is supplied on a common heavy-duty galvanised steel skid with the fire pump, diesel engine, controller, jockey pump, pipework and valves, and is available as a hydrant or sprinkler system with mains bypass and pressure relief valve (PRV) options.

Contact the APP Fire team for selection, pricing and a general arrangement drawing for your project.



TECHNICAL:

PUMP:

- End suction centrifugal pump, back pull-out construction
- Cast iron / bronze / stainless construction
- Mechanical seal

DIESEL ENGINE

- Engine selected to suit the duty
- Heat exchanger cooled, on anti-vibration engine mounts
- Exhaust outlet with condensate trap and muffler
- Fuel tank to AS 1692 sized for at least 6 hours at full load, with level indicator and low-level alarm
- Engine jacket heater fitted as standard

JOCKEY PUMP

- Vertical multistage jacking pump for efficient, quiet operation and maintenance-in-place
- Valves, pipework and accumulator tank

PIPEWORK AND VALVES

- Galvanised steel with roll-grooved connections
- FM/UL approved isolation valves with valve monitors
- Non-return valve on the pump discharge
- Annubar flow test point
- Hydraulically operated circulation and pressure relief valve
- Lockable isolation valves

CONTROLS

- 12 V or 24 V Diesel Fire Pump Controller (to suit the engine) manufactured to AS 2941-2013
- Jockey pump controller, factory wired
- Controller stand fixed to the plinth, separate from the pump skid

STANDARDS & WARRANTY:

- AS 2941-2013 Fixed fire protection installations – Pumpset systems
- For fire hydrant systems to AS 2419 and fire sprinkler systems to AS 2118
- Backed by the APP warranty (T&C's apply)

SITE REQUIREMENTS:

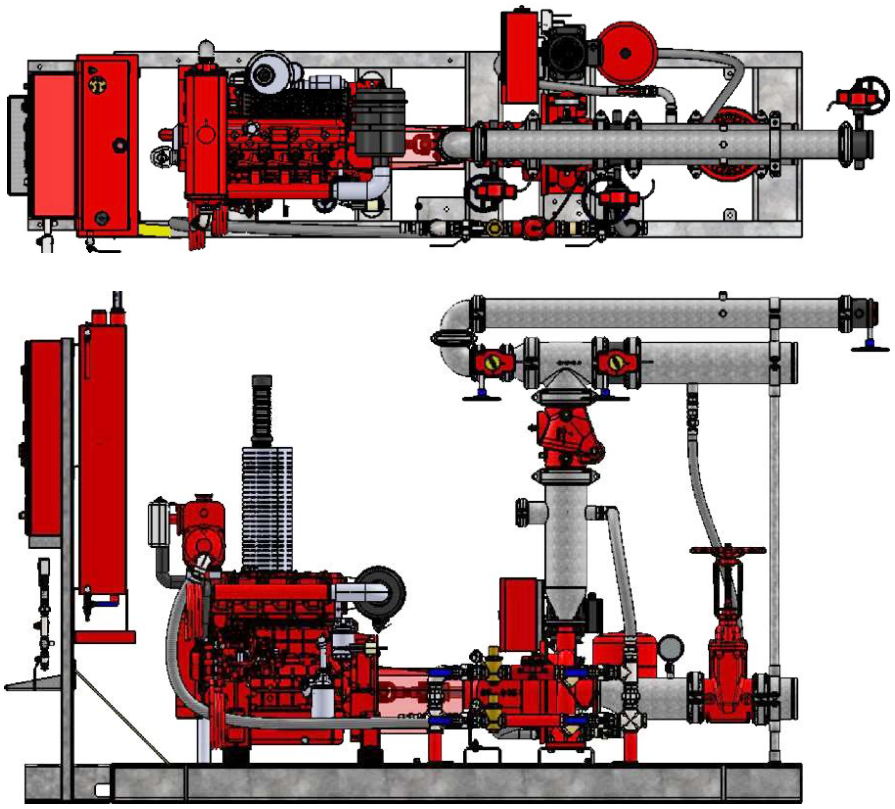
- 240 V AC supply to the diesel control panel and jacking pump controller, as shown on the project drawing
- Jockey pump circuit on a "D" curve breaker
- The diesel control panel is safety services / emergency equipment for electrical installation purposes
- Concrete plinth minimum 150 mm thick, extending 150 mm beyond the base on all sides
- Allow clearance around the pumpset for access and maintenance

NOTES:

- Fire pump system duties must be confirmed by a fire services designer (by others)
- Systems can be customised to suit any application

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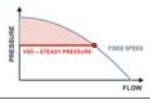
TYPICAL ARRANGEMENT



TYPICAL SIZES	
Overall length	2700 – 3550 mm
Overall width	approx. 1000 mm
Overall height	approx. 2050 – 2100 mm
Suction / discharge	DN100 – DN150
Annubar	DN80 – DN100
Approx. weight	800 – 1500 kg

Sizes vary with the duty, engine and pump selected. A general arrangement drawing is supplied for every project. All dimensions are in mm and approximate.

ADDITIONAL OPTIONS

PRODUCT		DESCRIPTION
	ANTI-TAMPER / WEATHERPROOF ENCLOSURE	Ideal when pumps are housed outside the building
	FLOW BYPASS VALVES & PIPEWORK	Mains flow bypass around the booster, built into the system
	PRESSURE RELIEF VALVE	Protects the system from over-pressurisation
	VARIABLE SPEED CONTROL	To protect from over-pressurisation

PRODUCT		DESCRIPTION
	SIGHT FLOW INDICATOR	Shows relief valve flow where the discharge is not visible
	VALVE MONITOR CLASS A OR B	Supervisory switch providing enhanced circuit supervision.