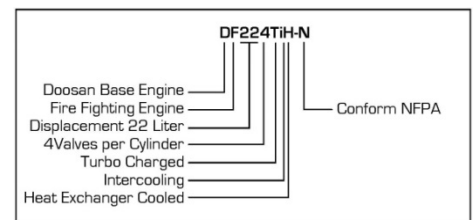
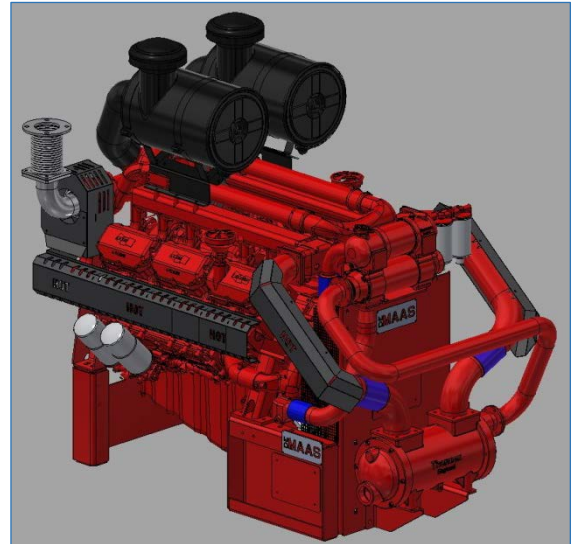
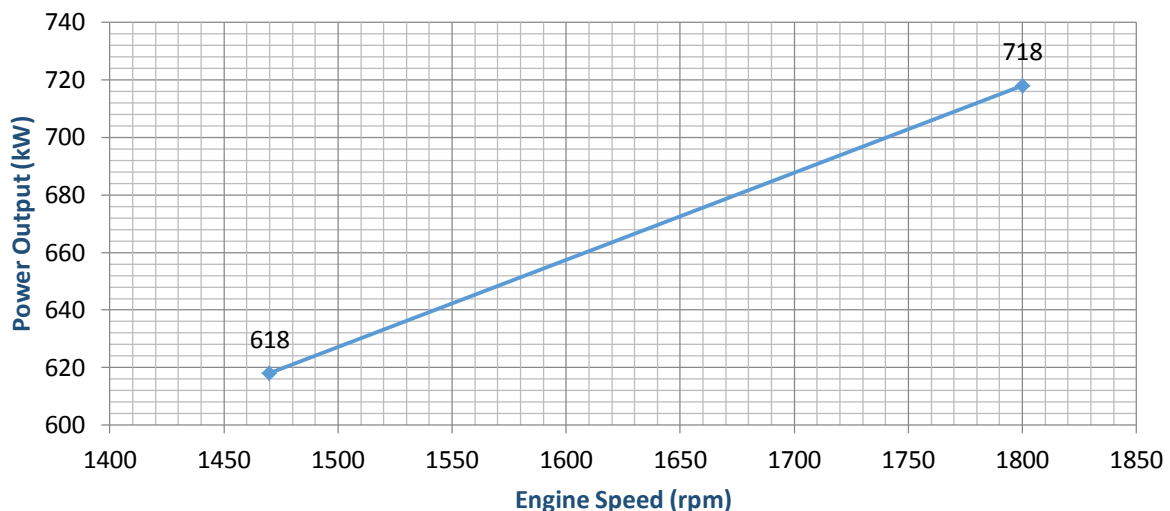


MODEL	Approved Ratings kW (hp) @ Rated speed rpm	
	1,470	1,800
DF224TiH-N	623 (835)	724 (971)

ENGINE SPECIFICATIONS		
• Engine Series		DOOSAN P222FE
• Engine Type		V-type 4 cycle, water cooled 12 cylinder
• Aspiration		Turbo charged & Intercooled
• Combustion Type		Direct injection
• Bore x Stroke	mm (inch)	128 (5.04) x 142 (5.59)
• Compression ratio		14.2 : 1
• Displacement	litre (Inch <sup>3</sup> )	21.927 (1.338)
• Rotation		Anti-Clockwise
• Weight	Approx. kg	1850
• Valves lashes at cold	mm (inch)	Intake 0.35 (0.0138) Exhaust 0.45 (0.0177)
• Wiring Diagram (Optional)		No. 01.900.07WDEN.03
• Panel Diagram (Optional)		No. 01.900.07PDEN.03
• Oil pan capacity	litre (gal.)	High level 40 (10.6) Low level 33 (8.7)
• Battery Capacity	Ah	200 recommend (battery not incl.)
• Coolant capacity	litre (gal.)	35 (9.2)



### DF224TiH-N Power Curve



#### ENGINE RATINGS BASELINES

Engines are not to be used for continuous duty. Engines are to be used only for stationary emergency standby fire pump service. According to NFPA 25 engines are to be tested 30 minutes per week at no pump flow and full pump flow once per year.

Engines are rated at standard SAE conditions of 29.61 in. (7,521 mm) Hg barometer and 77°F (25°C) inlet temperature (approximates 300ft. (91.4m) above sea level) by the testing laboratory (see SAE Standard J1349).

A deduction of 3 percent from engine horsepower rating at standard SAE conditions shall be made for diesel engines for each 1,000ft. (305m) altitude above 300ft. (91.4m).

A deduction of 1 percent from engine horsepower rating as corrected to standard SAE conditions shall be made for diesel engines for every 10°F (5.6°C) above 77°F (25°C) ambient temperature.

To determine the maximum allowable pump load, a deduction of 10% must be made.

**Restricted:** Use ratings only for stand-by fire pump applications

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Tested at standard SAE conditions of 29.61 in. (7,521 mm) Hg barometer and 77°F (25°C) inlet temperature (approximates 300ft. (91.4m) above sea level) by the testing laboratory (see SAE Standard J1349). Used Diesel fuel ASTM 2D.

Engine Equipment	Standard	Optional
Air cleaner	Drip proof	Heavy Duty Models
Alternator	24 Volts x 45 Amps / with belt guard	-
Exhaust protection	Sheet Steel Guarding	Elbow Matresses
Exhaust flex connection <i>mm (inch)</i>	138.4 (5")	-
Flywheel housing	SAE 1	<b>DRIVE LINE</b>
Flywheel connection	SAE 14	<b>STUB SHAFT</b>
Fuel filter	Full flow, cartridge type	-
Fuel lines	-	Flexible hoses according ISO 15540
Water pump	Centrifugal type driven by gear	-
Engine heater	230 Volts – 3,000 Watt	-
Governor speed	Constant speed, mechanical	-
Heat exchanger	Tube Stack Type	-
Lube Oil filter	Full flow, cartridge type	-
Lube Oil pump	Gear type, driven by crankshaft	-
Control / Instrument panel	-	Build on Engine
Junction box	-	Integrated in control panel
Manual start	-	On instrument panel
Overspeed control	-	Electronic instrument panel, test on instrument panel
Run-stop control	-	On instrument panel
Starters	Single 24 Volts x 7 kW	Twin Starters
Throttle Control	Adjustable speed control,	Remote Control
Further Optional	-	<b>ON REQUEST</b>

