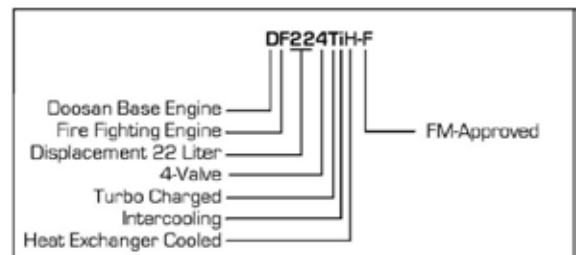
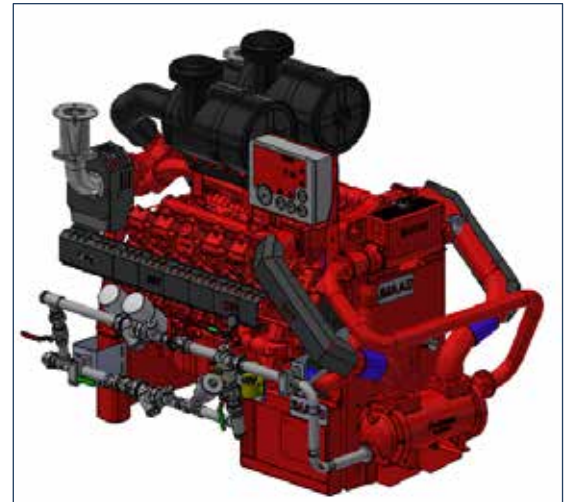
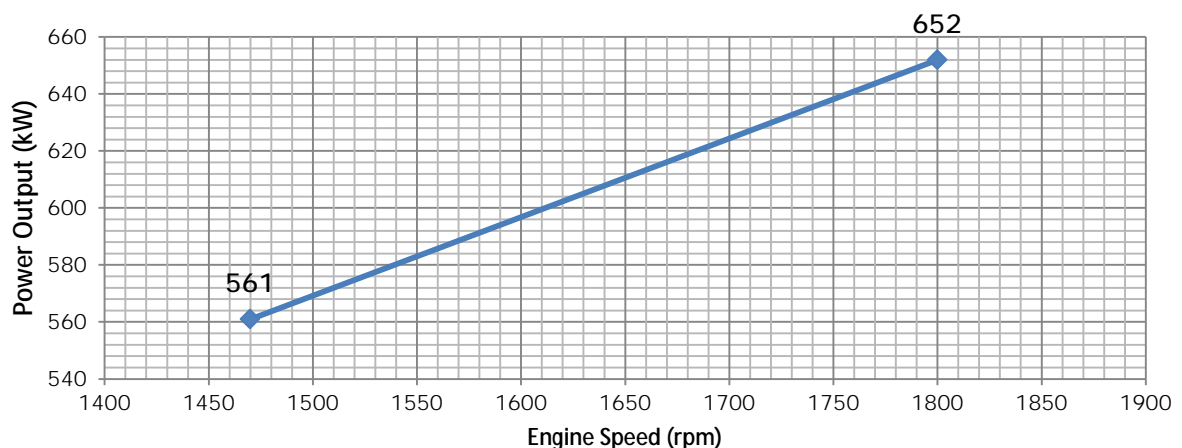


MODEL	Approved Ratings kW (hp) @ Rated speed rpm	
	1,470	1,800
DF224TiH-F	561 (763)	652 (887)



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 ³)	21.927 (1.338)
• Rotation		Anti-Clockwise
• Weight	Approx. kg	1,850
• Valves lashes at cold	mm (inch)	Intake 0.35 (0.0138) Exhaust 0.45 (0.0177)
• Wiring Diagram		No. 01.900.07EWEN.03
• Panel Diagram		No. 01.900.07PWEN.03
• Oil pan capacity	litre (gal.)	High level 40 (10.6) Low level 33 (8.7)
• Battery Capacity	Ah	200 recommend (battery not incl.)
• Cooling capacity	litre (gal.)	35 (9.2)

DF224TiH-F Power Curve



Although our FM ratings are shown at specific speeds, De Maas FFE engines can be applied at any intermediate speed. To determine the intermediate speed power; make a linear interpolation from the applicable De Maas power curves.

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.

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	
Alternator	24 Volts x 45 Amps with belt guard	
Exhaust protection	Sheet Steel Guarding	
Exhaust flex connection <i>mm (inch)</i>	2x 107 (2x 4")	
Flywheel housing	SAE 1	DRIVE LINE
Flywheel power take off	SAE 14 flywheel connection	STUB SHAFT
Fuel filter	Full flow, cartridge type	
Fuel Filter Lines	Flexible hoses according ISO 15540	
Engine heater	230 Volts – 3,000 Watt	
Governor speed	Constant speed, mechanical	
Heat exchanger	With BSP connections	
Instrument panel	Build on Engine	
Junction box	Integral with instrument panel	
Lube Oil filter	Full flow, cartridge type	
Lube Oil pump	Gear type, driven by crankshaft	
Manual start	On instrument panel	
Overspeed control	Electronic instrument panel, test on instrument panel	
Run-stop control	On instrument panel	
Starters	24 Volts x 7 kW	
Throttle Control	Adjustable speed control,	
Water pump	Centrifugal type driven by gear	FURTHER OPTIONS ON REQUEST

