

PRODUCT SPECIFICATIONS FOR C18



Maximum Power	597 kW
Rated Speed	1500-2100 rpm
Minimum Power	447 kW
Emissions	U.S. EPA Tier 3, Tier 2 or Non-certified emission standards for stationary emergency fire pump engines. FM Approved, UL Listed
Engine Configuration	Inline 6, 4-Stroke-Cycle Diesel
Bore	145 mm
Stroke	183 mm
Displacement	18.1 l
Compression Ratio	16.3:1
Aspiration	Turbocharged Aftercooled (TA)
Rotation from Flywheel End	Counterclockwise
Aftertreatment	-
Length	1889 mm
Width	1082 mm
Height	1380 mm

C18 STANDARD EQUIPMENT

AIR INLET SYSTEM

Dual turbocharger: front and rear inlet 127.mm (5.0 in)

Separate Circuit Aftercooled (SCAC)

Optional Air Cleaner - dual element, installed

CHARGING SYSTEM

Charging alternator 24 volt, 50 amp

CONTROL SYSTEM

Dual Electronic Control Units (ECU), primary and secondary with auto switching capability

Electronic governing, PTO speed control

Cold mode start strategy

Automatic altitude compensation

Power compensation for fuel temperature

Programmable low and high idle and top engine limit

Electronic diagnostics and fault logging

Engine monitoring and protection system (speeds, temperature, pressure)

SAE J1939 broadcast (diagnostic, engine status, and control)

COOLING SYSTEM

Thermostats and housing, vertical outlet

Jacket water pump, gear driven, centrifugal

Heat exchanger installed

Expansion tank

FM Required Raw Water Cooling Loops: 1.5" iron, horizontal or vertical, 1.5" 316 stainless steel, horizontal or vertical, 2" iron, horizontal or vertical (2100 rated rpm only), or 2" 316 stainless steel, horizontal or vertical (2100 rated rpm only)

EXHAUST SYSTEM

Exhaust manifold, dry

Dual turbo: exhaust elbow, dry 203 mm (8 in)

FLYWHEELS AND FLYWHEEL HOUSING

SAE No. 1 flywheel

SAE No. 1 flywheel housing

SAE standard rotation

FUEL SYSTEM

Electronic unit injector

Fuel filter, secondary (2 micron)

Fuel transfer pump

Fuel sample valve, mounted on fuel filter base

Primary fuel filter / water separator

INSTRUMENTATION

Digital Display mounted in Junction Box, LH side of engine. Displays: Oil pressure, Fuel pressure, Charging voltage, Coolant temperature, Raw water temperature, and Engine hours

LUBE SYSTEM

Crankcase breather, front valve cover

Oil cooler

Lube oil filter

Front sump oil pan

Oil filler

Oil dipstick

Oil pump

MOUNTING SYSTEM

Front and rear support

POWER TAKE-OFFS

Flywheel stub shaft

PROTECTION SYSTEM

Stop-Start System, automatic (compatible with NFPA 20 requirements, able to be energized from either of two battery sources and capable of manual starter actuation)

STARTING SYSTEM

24 volt, LH electric starting motor

Jacket water heater (3 kW, 120-240 volt)

GENERAL

Vibration damper and guard

Lifting eyes

Automatic variable timing, electronic

Paint - fire pump red

