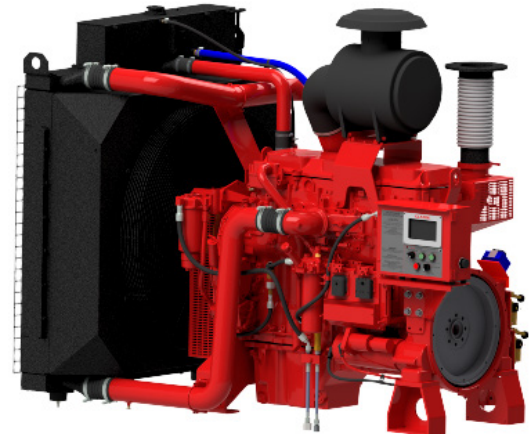


### UL/FM - cUL APPROVED RATINGS BHP/kW

C13R0 MODEL	RATED SPEED				EMISSIONS		
	1760		1900			2100	
UFAD19			318	237	318	237	EPA Tier 3 Certified
UFAD27	315	235					EPA Tier 3 Certified
UFAD49			379	283	379	283	EPA Tier 3 Certified
UFAD57	370	276					EPA Tier 3 Certified
UFAD69			435	324	419	312	EPA Tier 3 Certified
UFAD77	434	324					EPA Tier 3 Certified



◆ All Models are available for export

ENGINE SPECIFICATIONS	
Number of Cylinders	6
Aspiration	T
Rotation*	CW
Overall Dimensions - in. (mm)	69 (1753) H X 91.8 (2332) L X 56.8 (1443) W
Crankshaft Centerline Height - in. (mm)	17.0 (432)
Weight - lb (kg)	4110 (1864)
Compression Ratio	17.3:1
Displacement - cu. in. (l)	763 (12.5)
Engine Type	4 Stroke Cycle - Inline Construction
Bore & Stroke - in. (mm)	5.1x6.2 (130x157)

**Abbreviations:** CW – Clockwise T – Turbocharged L – Length W – Width H – Height \*Rotation viewed from Radiator / Front of engine

#### CERTIFIED POWER RATING

- Each engine is factory tested to verify power and performance
- FM-UL power ratings are shown at specific speeds. Clarke engines can be applied at a single rated RPM setting +/- 50 RPM.

#### ENGINE RATINGS BASELINES

- Engines are to be used for stationary emergency standby fire pump service only. Engines are to be tested in accordance with NFPA 25.
- Engines are rated at standard SAE conditions of 29.61 in. (752.1 mm) 77°F (25°C) inlet air temperature [approximates 300 ft. (91.4 m) above sea level] by the testing laboratory (see SAE Standard J 1349).
- A deduction of 3 percent from engine horsepower rating at standard SAE conditions shall be made for diesel engines for each 1000 ft. (305 m) altitude above 300 ft. (91.4 m)
- 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.



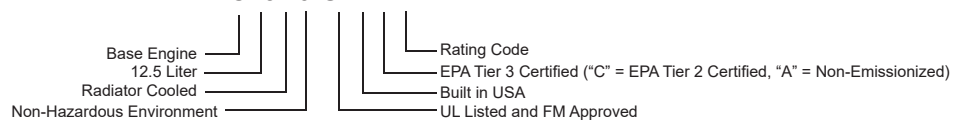
### ENGINE EQUIPMENT

EQUIPMENT	STANDARD	OPTIONAL
Air Cleaner	Disposable, Drip Proof Indoor Service Outdoor Type, Single Stage	Disposable, Drip Proof Indoor Service Outdoor Type, Two Stage
Alarm	Overspeed Alarm & Shutdown, Low Oil Pressure, Low & High Coolant Temperature	Low Coolant Level, Low Oil Level, Oil Filter Differential Pressure, Fuel Filter Differential Pressure, Air Filter Restriction
Alternator	12V-DC 55 Amps, with V-Belt	24V-DC 55 Amps, with V-Belt
Coupling	Bare Flywheel	Driveshaft and Guard
Engine Heater	230V-AC, 2500 Watt	
Exhaust Flex Connection	SS Flex. 150# ANSI Flanged Connection. 6 or 8"	SS Flex. 150# ANSI Flanged Connection. 8"
Exhaust Protection	Metal guard on Manifold and Turbocharger	
Flywheel Housing	SAE #1	
Flywheel Power Take Off	14" SAE Industrial Flywheel Connection	
Fuel Connections	Fire Resistent Supply and Return Lines	SS, Braided, cUL Listed, Supply and Return Lines
Fuel Filter	Primary Filter / Water Separator, Secondary Filter with Priming Pump	Duplex Secondary Filter
Fuel Injection System	Unit Injector	
Governor, Speed	Electronic, Dual Electronic Engine Control Modules	
Instrument Panel	NEMA Type 4, Powder Coated Steel Construction Touch Screen Panel with Multimeter to Display and Metric, Tachometer, Hour meter, Water Temperature, Oil Pressure, and Dual Voltmeters, Front Opening, Soft Start for Commissioning	Stainless Steel NEMA Type 4X (IP66) Touch Screen Panel with Digital Tachometer, Hour Meter, Water Temperature, Oil Pressure and Voltmeter Gauges. Front Opening, Soft Start for Commissioning
Junction Box	Integral with Instrument Panel; For DC Wiring Interconnection to Engine Controller	
Lube Oil Cooler	Jacket Water Cooled, Shell and Tube Type	
Lube Oil Filter	Single, Full Flow	Duplex Filter
Lube Oil Pump	Gear Driven, Gear Type	
Manual Start Control	Dual Manual Start Contactors & On Instrument Panel with Control Position Warning Light	
Overspeed Control	Electronic, Factory Set	
Radiator/Fan	Aluminum Bar & Plate, Engine Mounted Blower Fan	
Run - Stop Control	On Instrument Panel with Control Position Warning Light	
Starters	One (1) 12V-DC	One (1) 24V-DC
Throttle Control	Adjustable Speed Control by Increase/Decrease Button, Tamper Proof	
Water Pump	Centrifugal Type, Gear Driven	

**Abbreviations:** DC – Direct Current, AC – Alternating Current, SAE – Society of Automotive Engineers, NPT(F) – National Pipe Tapered Thread (Female), SS – Stainless Steel

#### MODEL NOMENCLATURE (11 Digit Models)

C13R0-UFAD77



Specifications and information contained in this brochure is subject to change without notice.