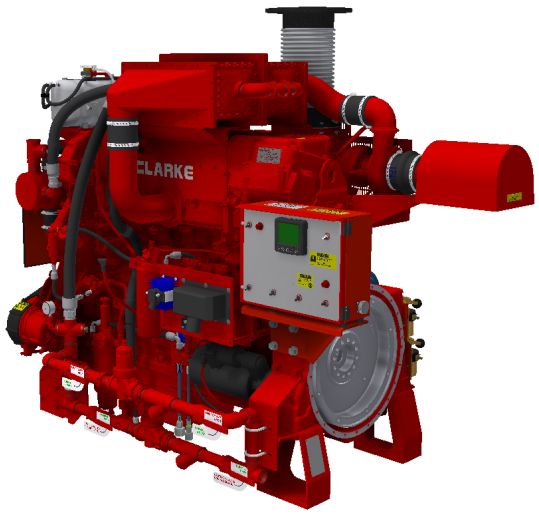
CLARKE®

CAT18H0 MODELS

UFAC176-0800
UFAC190-0800
UFAC210-0800
UFAC176-0755
UFAC190-0755
UFAC210-0755
UFAA147-0700
UFAD176-0700
UFAD190-0700
UFAD210-0700
UFAD176-0687
UFAD176-0650
UFAD190-0650
UFAD210-0650
UFAD176-0600
UFAD190-0600
UFAD210-0600
UFAD190-0575
UFAD210-0575
UFAD176-0542
UFAD190-0525
UFAD210-0525
UFAD176-0510
UFAD190-0488
UFAD210-0488
UFAD176-0460

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

CAT18H0 MODEL ♦	RATED SPEED 1470	1760	1900	2100	EMISSIONS
UFAD176-0460		**460** *343*			EPA Tier 3 Certified
UFAD190-0488			**488** *363*		EPA Tier 3 Certified
UFAD210-0488				**488** *363*	EPA Tier 3 Certified
UFAD176-0510		**510** *380*			EPA Tier 3 Certified
UFAD190-0525			**525** *391*		EPA Tier 3 Certified
UFAD210-0525				**525** *391*	EPA Tier 3 Certified
UFAD176-0542		**542** *404*			EPA Tier 3 Certified
UFAD190-0575			**575** *429*		EPA Tier 3 Certified
UFAD210-0575				**575** *429*	EPA Tier 3 Certified
UFAD176-0600		**600** *447*			EPA Tier 3 Certified
UFAD190-0600			**600** *447*		EPA Tier 3 Certified
UFAD210-0600				**600** *447*	EPA Tier 3 Certified
UFAD176-0650		**650** *485*			EPA Tier 3 Certified
UFAD190-0650			**650** *485*		EPA Tier 3 Certified
UFAD210-0650				**650** *485*	EPA Tier 3 Certified
UFAD176-0687		**687** *512*			EPA Tier 3 Certified
UFAA147-0700	**700** *522*				Non-Emissionized
UFAD176-0700		**700** *522*			EPA Tier 3 Certified
UFAD190-0700			**700** *522*		EPA Tier 3 Certified
UFAD210-0700				**700** *522*	EPA Tier 3 Certified
UFAC176-0755		**755** *563*			EPA Tier 2 Certified
UFAC190-0755			**755** *563*		EPA Tier 2 Certified
UFAC210-0755				**755** *563*	EPA Tier 2 Certified
UFAC170-0800		**800** *596*			EPA Tier 2 Certified
UFAC190-0800			**800** *596*		EPA Tier 2 Certified
UFAC210-0800				**800** *596*	EPA Tier 2 Certified



♦ All Models are available for export

NFPA

c UL us LISTED

c FM us APPROVED

ENGINE SPECIFICATIONS

Number of Cylinders	6
Aspiration	TRWA
Rotation*	CW
Overall Dimensions - in. (mm)	66.1(1678) H X 79.6(2022) L X 45.2(1147) W
Crankshaft Centerline Height - in. (mm)	17.0 (432)
Weight - lb (kg)	4100 (1860)
Compression Ratio	16.3:1
Displacement - cu. in. (l)	1104 (18.1)
Engine Type	4 Stroke Cycle - Inline Construction

Abbreviations: TRWA - Turbocharged and Raw Water Aftercooled CW - Clockwise
*Rotation viewed from Heat Exchanger / Front of engine

CERTIFIED POWER RATING

- Each engine is factory tested to verify power and performance

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.

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UFAC176-0800	UFAA147-0700	UFAD190-0650	UFAD176-0542
UFAC190-0800	UFAD176-0700	UFAD210-0650	UFAD190-0525
UFAC210-0800	UFAD190-0700	UFAD176-0600	UFAD210-0525
UFAC176-0755	UFAD210-0700	UFAD190-0600	UFAD176-0510
UFAC190-0755	UFAD176-0687	UFAD210-0600	UFAD190-0488
UFAC210-0755	UFAD176-0650	UFAD190-0575	UFAD210-0488
		UFAD210-0575	UFAD176-0460

ENGINE EQUIPMENT

EQUIPMENT	STANDARD	OPTIONAL
Air Cleaner	Direct Mounted, Washable, Indoor Service with Drip Shield	Disposable, Drip Proof, Indoor Service Outdoor Type, Single or Two Stage
Alarm	Overspeed Alarm & Shutdown, Low Oil Pressure, Low & High Coolant Temperature, Low Raw Water Flow, High Raw Water Temperature, Alternate ECM Warning, Fuel Injection Malfunction, ECM Warning and Failure with Automatic Switching	Low Coolant Level, Low Oil Level, Oil Filter Differenetial Pressure, Fuel Filter Differential Pressure, Air Filter Restriction
Alternator	24V-DC, 50 Amps with V-Belt and Guard	
Coupling	Bare Flywheel	Driveshaft and Guard
Engine Heater	230V-AC, 3500 Watt	
Exhaust Flex Connection	SS Flex. 150# ANSI Flanged Connection. 8”	SS Flex. 150# ANSI Flanged Connection. 10”
Exhaust Protection	Metal Guard on Manifold and Turbocharges	
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 with Priming Pump, Secondary Filter	
Fuel Injection System	Unit Injector	
Governor, Speed	Electronic, Dual Electronic Engine Control Modules	
Heat Exchanger	Shell and Tube Type, 60 PSI (4 Bar), NPT (F) Connections - Sea Water Compatible	
Instrument Panel	NEMA Type 2, Powder Coated Steel Construction, Multimeter to Display English and Metric, Tachometer, Hour meter, Water Temperature, Oil Pressuree, and Dual Voltmeters, Front Opening	316 Stainless Steel NEMA 4X/IP66
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	Full Flow, Dual Element	
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	
Raw Water Cooling Loop w/ Alarms	Galvanized	Seawater, All 316 SS, High Pressure
Raw Water Solenoid Operation	Automatic from Fire Pump Controller and from Engine Instrument Panel (for Horizontal Fire Pump Applications)	
Run - Stop Control	On Instrument Panel with Control Position Warning Light	
Starters	One (1) 24V-DC	
Throttle Control	Adjustable Speed Control by Increase/Decrease Button, Tamper Proof Adjustable Speed Control	

Abbreviations: DC - Direct Current, AC - Alternating Current, SAE - Society of Automotive Engineers, BSP(F) - British Standard Pipe Thread (Female), SS - Stainless Steel

MODEL NOMENCLATURE (20 Digit Models)

CAT18H0-UFAD176-0600

- Base Engine
- 18 Liter
- Heat Exchanger Cooled
- Non-Hazardous Environment
- Rated Power
- Rated Speed
- EPA Tier 3 Certified (“C” = EPA Tier 2 Certified, “A” = Non-Emissionized)
- Built in USA
- UL Listed and FM Approved

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

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