

FM-UL-cUL APPROVED RATINGS BHP/kW

JU4H MODEL	RATED SPEED							
	1760		2100		2350		2400	
UFAD5G	110	82	113	84	118	88		
UFADP0	121	90	125	93	130	97	130	97
UFADR0	113	84	136	101	140	104	140	104
UFADW8	144	107						
UFADY8	157	117						
UFAD98	175	131						

◆ All Models are available for export and suitable for installations in the US, Canada, and US territories.

USA EPA (NSPS) Interim Tier 4 or Tier 3 Emissions Certified Off-Road (40 CFR Part 89) and NSPS Stationary (40 CFR Part 60 Sub Part IIII). Meet EU Stage IIIA emission levels

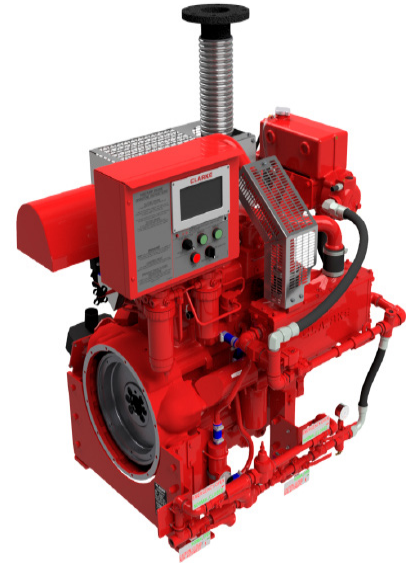


Image shown represents a JU4H engine model

ITEM	JU4H MODELS					
	UFAD5G	UFADP0	UFADR0	UFADW8	UDADY8	UFAD98
Number of Cylinders	4					
Aspiration	TRWA					
Rotation*	CW					
Overall Dimensions - in.(mm)	59.9(1523) H X 44.4(1473) L X 36.6(930) W					
Crankshaft Centerline Height - in.(mm)	14 (356)					
Weight - lb (kg)	1490 (676)					
Compression Ratio	19.0:1					
Displacement - cu. in. (l)	275 (4.5)					
Engine Type	4 Stroke Cycle - Inline Construction					
Bore & Stroke - in. (mm)	4.19 x 5.00 (106 x 127)					

Abbreviations: CW - Clockwise TRWA - Turbocharged with Raw Water Aftercooling N/A Not Applicable L - Length W - Width H - Height

*Rotation viewed from Heat Exchanger / 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.

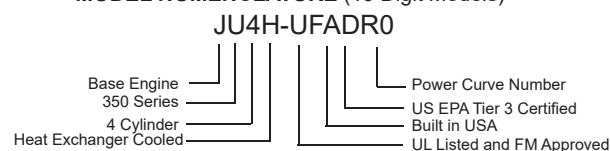


ENGINE EQUIPMENT

EQUIPMENT	STANDARD	OPTIONAL
Air Cleaner	Direct Mounted, Washable, Indoor Service with Drip Shield	Disposable, Drip Proof, Indoor Service Outdoor Type, Single or Two Stage (Cyclonic)
Alarms	Overspeed Alarm & Shutdown, Low Oil Pressure, Low & High Coolant Temperature, Low Raw Water Flow, High Raw Water Temperature	Low Coolant Level, Low Oil Level, Oil Filter Differential Pressure, Fuel Filter Differential Pressure, Air Filter Restriction
Alternator	12V-DC, 42 Amps with Poly-Vee Belt and Guard	24V-DC, 40 Amps with Poly-Vee Belt and Guard
Coupling	Bare Flywheel	Listed Driveshaft and Guard: JU4H-UFAD5G, P0, R0, W8, Y8 - CDS30-S1; JU4H-UFAD98 - CDS50
Electronic Control Module	12V-DC, Energized to Stop, Primary ECM always Powered on	24V-DC, Energized to Stop, Primary ECM always Powered on
Engine Heater	115V-AC, 1000 Watt	230V-AC, 1000 Watt
Exhaust Flex Connection	SS Flex, 150# ANSI Flanged Connection, 4"	SS Flex, 150# ANSI Flanged Connection, 5"
Exhaust Protection	Metal Guards on Manifolds and Turbocharger	
Flywheel Housing	SAE #3	
Flywheel Power Take Off	11.5" SAE Industrial Flywheel; Connection	
Fuel Connections	Fire Resistant, Flexible, USA Coast Guard Approved Supply and Return Lines	SS, Braided cUL Listed, Supply and Return Lines
Fuel Filter	Primary Filter and Priming Pump	
Fuel Injection System	High Pressure Common Rail	
Governor, Speed	Dual Electronic Control Modules	
Heat Exchanger	Serviceable Shell and Tube Type, 60 PSI (4 Bar), NPT (F) Connections, Fresh Water Only	Serviceable 90/10 CuNi Sea Water Compatible (Provided with optional sea water, 316 stainless steel or 90/10 CuNi cooling loop)
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 <i>Note: Some models may include instrument panel with powerview display in place of TSP-E.</i>	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	Engine Water Cooled, Plate Type	
Lube Oil Filter	Full Flow with By-Pass Valve	
Lube Oil Pump	Gear Driven, Gear Type	
Manual Start Control	On Instrument Panel with Control Position Warning Light	
Overspeed Control	Electronic, Factory Set, Not Field Adjustable	
Raw Water Cooling Loop - w/Alarms	Galvanized	Seawater, All 316SS, High Pressure
Raw Water Solenoid Operation	Automatic from Fire Pump Controller and from Engine Instrument Panel (for Horizontal Fire Pump Applications)	Not Supplied (for Vertical Turbine Fire Pump Applications)
Run - Stop Control	On Instrument Panel with Control Position Warning Light	
Starters	Two (2) 12V-DC	Two (2) 24V-DC
Throttle Control	Adjustable Speed Control by Increase/Decrease Button, Tamper Proof in Instrument Panel	
Water Pump	Centrifugal Type, Poly-Vee Belt Drive with Guard	

Abbreviations: DC - Direct Current, AC - Alternating Current, SAE - Society of Automotive Engineers, NPT(F) - National Pipe Tapered Thread (Male), ANSI - American National Standards Institute, SS - Stainless Steel

MODEL NOMENCLATURE (10 Digit Models)



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