CLARKE®

FIRE PUMP ENGINES

MODELS

DS0H-UFAAM0 DS0H-UFAA60
DS0H-UFAAN0 DS0H-UFAA98
DS0H-UFAA68 DS0H-UFAA92

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

DS0H MODEL ♦ λ	RATED SPEED 1470		1760		2100		2350	
DS0H-UFAAM0			520	*388*	530	*395*		
DS0H-UFAAN0			542	*404*	575	*429*		
DS0H-UFAA68	522	*389.5*	587	*438*				
DS0H-UFAA60					614	*458*	606	*452*
DS0H-UFAA98			650	*485*				
DS0H-UFAA92					722	*538.5*		

♦ All Models are available for Export

λ = Non-Emissionized

Picture shown represents the DS0H-UFAA98 and UFAA92 engine models

SPECIFICATIONS

ITEM	DS0H MODELS UFAAM0	UFAAN0	UFAA68	UFAA60	UFAA98	UFAA92
Number of Cylinders	10					
Aspiration	TRWA					
Rotation*	CW					
Overall Dimensions – in. (mm)	76.7 (1947) H x 61.7 (1568) L x 53.9 (1369) W					
Crankshaft Centerline Height – in. (mm)	23.5 (597)					
Weight – lb (kg)	3200 (1450)					
Compression Ratio	14.6:1					
Displacement – cu. in. (l)	1115 (18.3)					
Engine Type	4 Cycle, 2 Valves per Cylinder, Vee					
Bore & Stroke – in. (mm)	5.04 x 5.59 (128 x 142)					
Installation Drawing	D665					
Wiring Diagram AC	C07651					
Wiring Diagram DC	C071842					
Speed Interpolation	None					

Abbreviations: CW – Clockwise TRWA – Turbocharged with Raw Water Aftercooling 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.

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) Hg barometer and 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.

c UL us

Meets NFPA 20 Requirements

FM C US APPROVED

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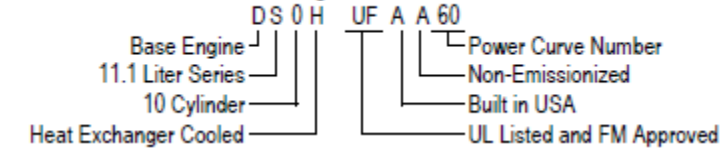
ENGINE EQUIPMENT

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, High 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	24V-DC, 45 Amps with Dual (2) V-Belt Drive with Guard	
Coupling	Bare Flywheel	Non-Listed SC2160A Driveshaft; Vertical Turbine Drivedisc
Engine Heater	230V-AC, 2500 Watt	115V-AC, 2500 Watt
Exhaust Flex Connection	SS Flex, 150# Flange Connection, 5”	SS Flex, 150# Flange Connection, 6”
Exhaust Protection	Blankets	
Flywheel Housing	SAE #1	
Flywheel Power Take Off	14.0” Industrial Flywheel Connection	
Fuel Connections	Fire Resistant, Flexible, USA Coast Guard Approved, Supply and Return Lines	
Fuel Filter	Primary and Secondary	
Fuel Injection System	Direct Injection, Inline Pump	
Fuel Solenoid	24V-DC Energized to Stop	
Governor, Speed	Variable Speed, Mechanical	
Heat Exchanger	Tube and Shell Type, 60 PSI (4 BAR), NPT(F) Connections – Sea Water Compatible	
Instrument Panel	Tachometer, Hourmeter, Water Temperature, Oil Pressure and Two (2) Voltmeters, Front Opening	
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 with Reset and Test on Instrument Panel	
Raw Water Cooling Loop – w/ Alarms	Galvanized	Sea Water, All 316SS, High Pressure
Raw Water Cooling Loop - 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	One (1) 24V-DC with Two (2) Start Contactors	
Throttle Control	Adjustable Speed Control, Tamper Proof	
Water Pump	Centrifugal Type, Dual (2) V-Belt Drive with Guard	

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

MODEL NOMENCLATURE (10 Digit Models)



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