

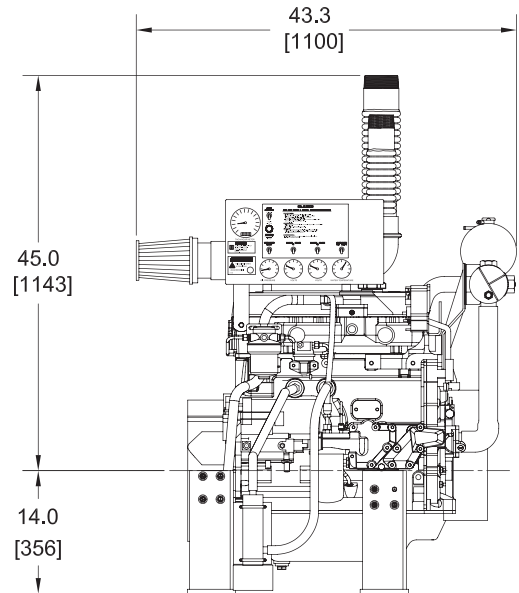
# CLARKE

## FIRE PUMP DRIVERS

### MODELS

JU4H-UF10	JU4H-UF20	JU4H-UFH8	JU4H-UF42
JU4H-UF12	JU4H-UF22	JU4H-UFH0	JU4H-UF58
JU4H-UF28	JU4H-UF30	JU4H-UFH2	JU4H-UF50
	JU4H-UF32	JU4H-UF40	JU4H-UF52

FM-UL-cUL Approved Ratings BHP/kW								
JU4H MODEL	OPERATING SPEED							
	1470	1760	2100	2350	2600			
UF10		41	31	51	38	55	41	
UF12						55	41	44
UF28	48	36	60	45				
UF20		60	45	67	50	72	54	
UF22						72	54	56
UF30		64	48	79	59	85	63	
UF32						85	63	63
UFH8	63	47	73	54				
UFH0		73	54	88	66	98	73	
UFH2						98	73	74
UF40		94	70	105	78	106	79	
UF42						106	79	79
UF58	79	59	110	82				
UF50		110	82	130	97	127	95	
UF52						127	95	95



JU4H-UF50  
OVERALL WIDTH  
29.0  
[735]

## Engine Equipment

Equipment	Standard	Optional
<b>Air Cleaner</b>	Direct Mounted, Washable, Indoor Service	Disposable, Drip proof, Indoor Service Outdoor Type
<b>Alternator</b>	12V-DC, 42 Amps; w/Belt Guard	24V-DC, 40 Amps; w/Belt Guard
<b>Exhaust Protection</b>	Blankets on UF10/12, UF20/22/28 Metal Guards on Manifolds & Turbo on UF30/32, UFH8/H0/H2, UF40/42, UF50/52/58	
<b>Coupling</b>	Falk Coupling, Engine Half UF10/12, UF20/21/28, UF30/43, UFH8/H0/H2, UF40/42 & UF50/52/58 - 1070T10 Coupling	Drive Shaft & Guard, Drive Shaft System UF10/12, UF20/22/28 - SC41 Series; UF30/32, UFH8/H0/H2, UF40/42, UF50/52/58 - SC55 Series
<b>Exhaust Flex Connection</b>		SS Flex, NPT or SS Flex, 150# Flange
<b>Flywheel Housing</b>	S.A.E. #3	
<b>Flywheel Power Take Off</b>	11.5" S.A.E. Industrial Flywheel Connection	
<b>Fuel Connections</b>	Fire Resistant Flexible Supply & Return Lines	
<b>Fuel Filter</b>	Primary Filter w/priming pump	
<b>Fuel Injection System</b>	Stanadyne Direct Injection	
<b>Engine Heater</b>	120V-AC, 1500 Watt	240V-AC, 1500 Watt
<b>Governor, Speed</b>	Constant Speed, Mechanical	
<b>Heat Exchanger</b>	Tube & Shell Type, 60 PSI w/NPTF Connections	

Equipment	Standard	Optional
<b>Instrument Panel</b>	English & Metric, Tachometer, Hourmeter, Water Temperature, Oil Pressure & Two (2) Voltmeters	
<b>Junction Box</b>	Integral with Instrument Panel; For DC Wiring Interconnection to Engine Controller	
<b>Lube Oil Cooler</b>	Engine Water Cooled, Plate Type	
<b>Lube Oil Filter</b>	Full Flow w/By-Pass Valve	
<b>Lube Oil Pump</b>	Gear Driven, Gear Type	
<b>Manual Start Controls</b>	On Instrument Panel	
<b>Overspeed Control</b>	Electronic w/Reset & Test on Instrument Panel	
<b>Raw Water Solenoid Operation</b>	Automatic from Engine Controller & from Emergency Local Control	
<b>Run-Stop Control</b>	On Instrument Panel With Control Position Warning Light	
<b>Run Solenoid</b>	12V-DC Energized to Run	24V-DC Energized to Run 12V-DC Energized to Stop 24V-DC Energized to Stop
<b>Starters</b>	Two (2) 12V-DC	Two (2) 24V-DC
<b>Throttle Control</b>	Adjustable Speed Control, Tamper Proof	
<b>Water Pump</b>	Poly-Vee Belt Drive w/Guard	



LISTED  
513Y



meets  
NFPA-20  
Requirements



approved  
1333

JU4H-UF10	JU4H-UF20	JU4H-UFH8	JU4H-UF42
JU4H-UF12	JU4H-UF22	JU4H-UFH0	JU4H-UF58
JU4H-UF28	JU4H-UF30	JU4H-UFH2	JU4H-UF50
	JU4H-UF32	JU4H-UF40	JU4H-UF52

## Specifications

Item	JU4H Models					
	UF10/12	UF20/22/28	UF30/32	UFH8/H0/H2	UF40/42	UF50/52/58
Number of Cylinders	4					
Aspiration	N			T		
Rotation*	Clockwise (CW)					
Weight - lb (kg)	910 (413)			935 (424)		
Compression Ratio	17.6:1			17.0:1		
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)					
Installation Drawing	D - 534 - US			D - 545 - UK		
Wiring Diagram	C07575 (DC Engine Wiring)			C07651 (AC Heater Wiring)		
Engine Series	John Deere 4045 Series					

**Abbreviations:** CW – Clockwise N – Naturally Aspirated T – Turbocharged

\*Rotation viewed from Heat Exchanger / Front of engine

Engine intended for Indoor use or inside weatherproof enclosure only

### † ENGINE RATINGS BASELINES

Engines are rated at standard SAE conditions of 29.61 in. (7521 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.

Note: Engines certified at any speed between 1470 & 2600 RPM.

### CERTIFIED POWER AT ANY SPEED

Although FM-UL Certified BHP ratings are shown at specific speeds, Clarke engines can be applied at any intermediate speed. To determine the intermediate certified power, make a linear interpolation from the Clarke FM-UL certified power curve. Contact Clarke or your Pump OEM representative to obtain details.

# CLARKE

[www.clarkefire.com](http://www.clarkefire.com)

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C13600 4/05

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Printed in U.S.A.