Enriching Lives	**Engine Data Sheet** **Kirloskar Oil Engines Limited** **Laxmanrao Kirloskar Road** **Khadki, Pune - 411003 (India)**	**Basic Engine Model:** **KFP6R-UF26R2** Reference Number : EDS - UF26R2 - 00 Revision Date : 28.05.2018 Rev. Number : 00

General Engine Data

Engine Manufacturer……	KOEL
Ignition Type……..	Compression (Diesel)
Number of Cylinders…….	6
Bore and Stroke - in(mm)……	4.13 x 4.92 (105 x 125)
Displacement - in^3 (L)…….	395.4 (6.48)
Compression Ratio……..	17.0 : 1
Valve per cylinder - Intake……	1
Exhaust……	1
Combustion System…….	Direct Injection
Engine Type……	In-Line, 4 Stroke Cycle
Aspiration……	Turbocharged, Aftercooled
Firing Order…….	1-5-3-6-2-4
Charge Air Cooling Type……	Raw Watercooled
Rotation(Viewed from Flywheel end) - Clockwise..	Not Available
Counter-Clockwise……..	Standard
Engine Crankcase Vent System……	Open
Installation Drawing…….	6H.2623.00.0.00

Power Rating - Approved	**2800**	**2900**	**3000**
Engine Nameplate Power - HP(kW)……	164(122)	191(142)	217(161)

Cooling system	**2800**	**2900**	**3000**
Engine Coolant Heat - Btu/sec(kW)……	58.8(62)	67.3(71)	77.7(82)
Engine Radiated Heat - Btu/sec(kW)……..	43.6(46)	46.4(49)	62.5(66)
Heat Exchanger minimum Flow			
60^0F (16^0C) Raw Water - gal/min (LPM)….	25.0(95)		
100^0F (38^0C) Raw Water - gal/min (LPM)…	27.75(105)		
Heat Exchanger Maximum Cooling Water			
Inlet Pressure - lb/in^2 (bar) ……	60(4.13)		
Flow - gal/min (LPM)……..	37(140)		
Thermostat, Start to Open - ^{0}F (^{0}C)……..	165.2(74)		
Fully Opened - ^{0}F (^{0}C)……..	183.2(84)		
Engine Coolant capacity - L……	18		
Engine Coolant High Temp. Switch - ^{0}F (^{0}C)…….	203(95)		
Engine Coolant Low Temp. Switch - ^{0}F (^{0}C)…….	95(35)		
Raw water High Temp. Switch - ^{0}F (^{0}C)……	149(65)		

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Electric System - DC

System Voltage (Nominal)……..	12 V
Battery Capacity for Ambient above 32^0F (0^0C)	
Voltage (Nominal)…….	12 V
Current Capacity - Amp/hr……	180
Qty. per Battery Bank……..	1
CCA at 0^0F (-18^0C)……..	640
Reserve Capacity - Minutes……..	260
Battery Cable Minimum Size - mm^2……	70
Charging Alternator Output - Amp…….	35
Starter Cranking Amps - at 60^0F (15^0C)……..	250 - 350

Exhaust System

	2800	2900	3000
Exhaust Flow - ft^3/min (m^3/min)……..	1344.9(38.1)	1655.2(46.9)	1894.2(53.6)
Exhaust Temperature - ^{0}F (^{0}C)…….	824(440)	860(460)	878(470)
Max. Allowable Back Pressure - in H_2O(kPa)……	16(4)		
Exhaust pipe Dia. In (mm) for further exhaust piping(Min.)……	5 (125)		

Fuel System

	2800	2900	3000
Fuel Consumption - gal/hr (L/hr)……	9.3(35.3)	11.04(41.8)	12.8(48.3)
Fuel Return - gal/hr (L/hr)……	43.96(166.3)	42.22(159.8)	40.46(153.3)
Total Supply Fuel Flow - gal/hr (L/hr)…….	53.26(201.6)	53.26(201.6)	53.26(201.6)
Fuel Pressure - lb/in^2 (kPa)…….	36.25(250)		
Fuel Supply Line Size(Min.) - in(mm) ……	0.5(12.7)		
Fuel Return Line Size(Min.) - in(mm)……	0.375(9.5)		
Max. Allowable Fuel Pump Suction With Clean Filter - in H_2O (m H_2O)……	31 (0.8)		
Max. Allowable Fuel Head Above Fuel Pump Supply or Return - m (ft)……	5 (16.4)		
Fuel Filter Size - Micron……	3-5 micron		

Heater System

Jacket Water Heater……..	Standard
Wattage (Nominal)……..	2000
Voltage - AC, 1P…….	240

Air Intake System

	2800	2900	3000
Air Cleaner Type…….	Dry type, Indoor service only		
Air Intake Restriction Maximum Limit			
Dirty Air Cleaner - in H_2O (kPa)……..	8(2) for 2800 to 3000 rpm		
Clean Air Cleaner - in H_2O (kPa)……	4(1.0) - 5(1.25)		
Engine Air Flow - ft^3/min (m^3/min)……	547.4(15.5)	674.5(19.1)	741.6(21)
Air Temperature(At Engine Inlet) - ^{0}F (^{0}C)..……..	113(45) Max. Allowable		

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Lubrication System

Oil Pressure(Normal) - lb/in^2 (kPa)…….	36.2 to 79.77 (250 to 550)
Oil Temperature(In Pan) - ^{0}F (^{0}C) (max.)……..	248 - 266 (120 - 130)
Oil Pan Capacity, High - L……	11.5
Low - L……..	9
Total Oil Capacity with filter - L……..	14.5

Performance

	2800	2900	3000
BMEP - lb/in^2 (kPa)……..	116.7(805)	131.3(905)	144(992)
Piston Speed - ft/min (m/min)……..	2297(700)	2379(725)	2461(750)
Mechanical Noise - dB(A) at 1m……	102 approx.		
Power Curve……	Performance curve No. EPC - UF26R2 - 00		

Note : The unit 'gal/hr or gal/min' mentioned in above data sheet is US gallon.