



Enriching Lives

Engine Data Sheet

Kirloskar Oil Engines Limited
Laxmanrao Kirloskar Road
Khadki, Pune - 411003 (India)

Basic Engine Model:
KFP6R-UF26R1

Reference Number : EDS - UF26R1 - 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).....	251(187)	249(185)	247(184)

Cooling system

	2800	2900	3000
Engine Coolant Heat - Btu/sec(kW).....	75.8(80)	85.3(90)	90(95))
Engine Radiated Heat - Btu/sec(kW).....	81.5(86)	73.9(78)	74.9(79)
Heat Exchanger minimum Flow			
60 ⁰ F (16 ⁰ C) Raw Water - gal/min (LPM)....	25.0(95)		
100 ⁰ F (38 ⁰ C) 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)		

Continued.....

Electric System - DC

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

Exhaust System

	2800	2900	3000
Exhaust Flow - ft ³ /min (m ³ /min).....	1962.3(55.6)	2059.4(58.3)	2132.4(60.4)
Exhaust Temperature - °F (°C).....	896(480)	896(480)	896(480)
Max. Allowable Back Pressure - in H ₂ O(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).....	14.3(54.3)	14.5(55.1)	14.8(55.9)
Fuel Return - gal/hr (L/hr).....	38.96(147.3)	38.76(146.5)	38.46(145.7)
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 ₂ O (m H ₂ O).....	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 ₂ O (kPa).....	8(2) for 2800 to 3000 rpm		
Clean Air Cleaner - in H ₂ O (kPa).....	4(1.0) - 5(1.25)		
Engine Air Flow - ft ³ /min (m ³ /min).....	755.7(21.4)	794.6(22.5)	822.8(23.3)
Air Temperature(At Engine Inlet) - °F (°C).....	113(45) Max. Allowable		

Continued.....

Lubrication System

Oil Pressure(Normal) - lb/in ² (kPa).....	36.2 to 79.77 (250 to 550)
Oil Temperature(In Pan) - °F (°C) (max.).....	248 - 266 (120 - 130)
Oil Pan Capacity, High - L.....	11.5
Low - L.....	9.0
Total Oil Capacity with filter - L.....	14.5

Performance

	2800	2900	3000
BMEP - lb/in ² (kPa).....	179(1234)	171(1179)	164.3(1133)
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 - UF26R1 - 00		

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