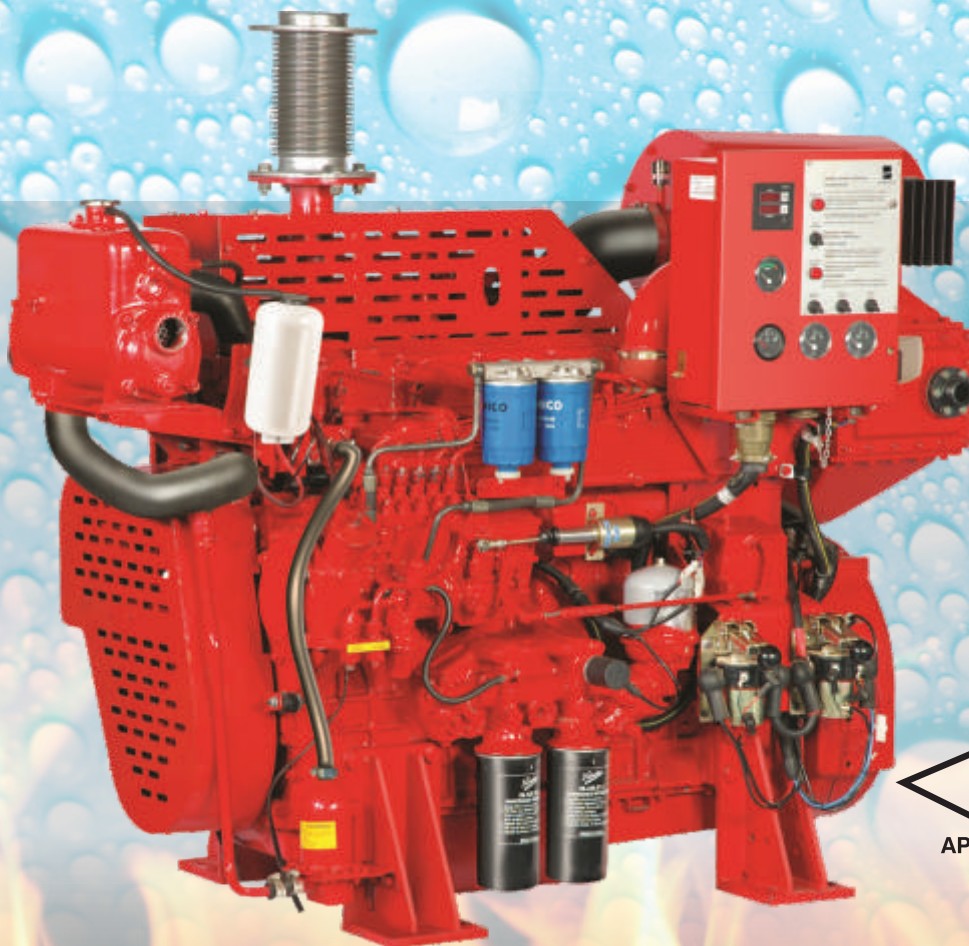




Enriching Lives

NEVER COMPROMISE ON SAFETY...

Kirloskar Engines with Unmatched Quality
and Reliability for Fire Pumps



KFP SERIES

FOR FIRE PUMPS

A Rich Tradition of Engineering Excellence

Incorporated in the year 1946, the Kirloskar Group is known for its engineering prowess, penchant for product reliability, business trust and customer orientation. Today, the Kirloskar Group is amongst India's largest multi-product, multi-location diversified engineering conglomerates, with a turnover exceeding US \$1.6 billion.

Kirloskar Oil Engines Limited (KOEL), incorporated in the year 1946, currently ranks among the leading and largest manufacturers of diesel engines which are manufactured and sold under Kirloskar Brand. Kirloskar engines covers a power envelop span ranging from 4hp to 800 hp and from 2,400 hp to 11,000 hp, in both air-cooled as well as liquid cooled, naturally aspirated, turbo and turbo-after-cooled versions.

Annually KOEL manufactures over 2,25,000 engines which are used in over 100 different applications viz.

Agriculture, Power Generation, Construction, Material Handling, Earthmoving, Mining, Offshore, Fluid Handling, Agro Industrial market segments including Defense and Marine applications. KOEL Exports to over 35 countries worldwide. In India KOEL Engine Sales leads Global Majors such as Perkins, Cummins, Iveco and Caterpillar by a substantial margin.

KIRLOSKAR Engines for Fire Pumps

The major concern for insurance companies and end users is the reliability of the Fire protection System, which calls for a dependable driver for fire pumps. Kirloskar Oil Engines Ltd., with its more than six decades of engine designing and manufacturing experience has the know-how and capability to offer diesel engines for such critical applications. Working closely with OEMs, contractors, consultants & end users for years, KOEL understands their need for cost effective and reliable diesel engines for Fire Pump packages.

Kirloskar KFP series engines have been designed to meet the stringent requirements of Factory Mutual (FM) and Underwriter's Laboratories (UL), while also meeting the requirements of NFPA 20 standards. KFP series engines are offered in 19 different ratings that have been approved by FM and are also UL listed. This stringent approval criteria includes Performance requirements, Functional requirements, examination of manufacturing facility, Quarterly audit of quality assurance procedures and a follow up program to verify the approved product's conformance.

Typical Features of KFP series:

- Heat exchanger for Engine coolant
- Water Cooled Charge Air cooler for After-cooled engine models
- FM approved Cooling Loop with Raw water solenoids, manual valves in main & emergency lines as per NFPA 20 requirements
- Engine mounted Instrument Panel duly isolated from vibration
- Junction Box Integral with Instrument Panel for AC Wiring
- Interconnection to main Controller
- Engine coolant heater
- Starter Contactors (DC)
- Splitter for splitting the charging current coming from alternator to dual battery
- Electronic governor
- Heat shield on Exhaust Manifold, Turbo Charger & CAC Pipes
- Fire Resistant Flexible Supply & Return Lines in Fuel connections



FM-UL Approved Engine Ratings

Engine Model Aspiration	Rated Output hp	Rater Output kW	Rated Speed rpm
KFP4R-UF07 Naturally Aspirated	62	46	1760
	70	52	2100
	74	55	2200
	74	55	2350
	77	57	2600
KFP4R-UF15 Turbo After-Cooled	108	81	1760
	111	83	2100
	117	87	2200
	143	107	2350
	151	113	2600
KFP6R-UF25 Turbo After-Cooled	169	126	1760
	191	142	2100
	196	146	2200
	203	151	2350
	225	168	2600
KFP6S-UF35 Turbo After-Cooled	288	215	1760
	336	251	2100
	332	248	2200
	330	246	2350

- Above mentioned Engine Ratings are as per FM & UL guidelines and are applicable for stationary emergency standby fire pump service alone
- Engines are rated at Standard site conditions with Temperature of 25 Deg C, Altitude of 91m (300 ft) above sea level and humidity of 60%
- Engines are subjected to deration when operating at other site conditions. Please contact Kirloskar Oil Engines Ltd. for Deration Guidelines

Brief Specifications

Models	KFP4R-UF07	KFP4R-UF15	KFP6R-UF25	KFP6S-UF35
Engine Description	Vertical, Liquid Cooled, Compression Ignition, Four Stroke, Naturally Aspirated/ Turbo After-Cooled Diesel Engines			
Bore X Stroke (mm)	105 X 120		105 X 125	118 X 135
Displacement (cc)	4160		6480	8800
Compression Ratio	18:01	18:01	17.6:1	17.5:1
Direction of Rotation	Counter-Clockwise (Looking from Flywheel End)			
Speed-Max Operating (rpm)	2600			2350
Min. Operating (rpm)	1760			
Dimensions (cm) L X W X H	1285X1367X887	1404X1292X912	1487X1711X976	570X1711X1014
Weight (kg)	580	630	880	1160

Worldwide presence of Kirloskar



- Angola ■ Benin ■ Cambodia ■ Egypt ■ El Salvador
- Guatemala ■ Guinea ■ Honduras ■ Iran ■ Iraq ■ Jordan ■ Kenya ■ Lao PDR ■ Lebanon
- Malawi ■ Mauritius ■ Morocco ■ Myanmar ■ Namibia ■ Nepal ■ Nigeria ■ Oman
- Panama ■ Saudi Arabia ■ South Africa ■ Sri Lanka ■ Syria
- Tanzania ■ UAE ■ Uganda ■ USA (Florida) ■ Zambia

Kirloskar JLT

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Enriching Lives

Stamp of
Authorised
Representative