



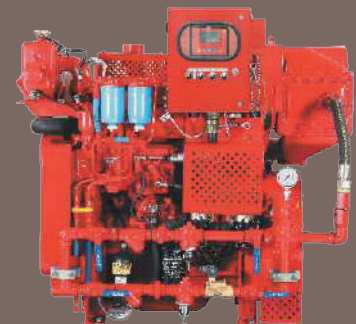
Enriching Lives

Never compromise on safety...

Kirloskar
Diesel
Engines for
Fire Pumps



Unmatched
Quality and
Reliability



KIRLOSKAR OIL ENGINES LIMITED

A rich tradition of engineering excellence

The Kirloskar Legacy stands for a tradition of excellence for more than a century now. A personification of patronizing values and visionary goals, the name 'Kirloskar' is engraved on numerous nation-building milestones. Today, the Kirloskar Group, with a turnover exceeding USD 1.6 billion, stands as an enormous industrial conglomerate.

Incorporated in 1946, Kirloskar Oil Engines Limited (KOEL) is the flagship company of the Kirloskar group. We have four state-of-the-art manufacturing units in India that offer world-class service.

The company has a sizable presence in international markets, with offices in the USA, UAE., South Africa, Kenya and representatives in Indonesia, Vietnam and Nigeria. KOEL also has a strong distribution network throughout the Middle East and Africa.

Today KOEL is an acknowledged leader in the manufacturing of diesel engines, agricultural pumpsets, power tillers and generating sets. The company currently ranks among the leading manufacturers of diesel engines, which are manufactured and sold under Kirloskar Brand. Kirloskar engines cover a power envelop span ranging from 4 hp to 1250 hp in air-cooled and liquid cooled versions.

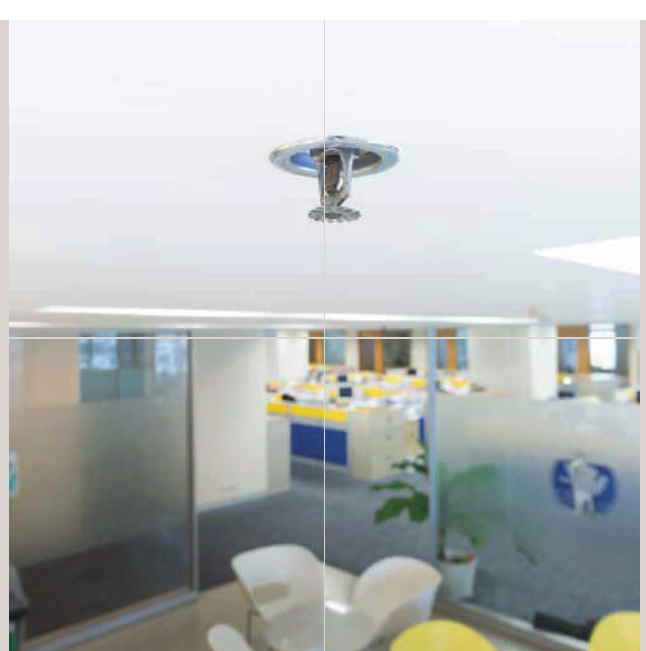
KOEL manufactures over 225,000 engines annually, which are used in over 100 different applications. These applications are found in sectors such as agriculture, power generation, construction, material handling, earth-moving, mining, offshore, fluid handling and agro-industrial market segments that include defence and marine applications. KOEL exports to over 60 countries worldwide.

Kirloskar Engines for Fire Pumps

Reliability of the fire protection systems is a major concern for insurance companies and end users. A prime contributor to the reliability of fire pumps is a dependable driver.

With over sixty years of experience in engine designing and manufacturing, Kirloskar Oil Engines Ltd. has the capability to offer dependable diesel engines for critical applications. The company's work with OEMs, contractors, consultants and end users over the years, has given it a comprehensive understanding of the 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), Underwriters Laboratories (UL) as well as NFPA 20 standards. KFP series engines are currently available in 19 different ratings approved by FM and listed by UL. These stringent approval criteria cover performance and functional requirements, examination of manufacturing facility, quarterly audits of quality assurance procedures and a follow up programme to verify approved products' conformance.



Salient features of KFP series





- Heat exchanger for engine coolant
- Liquid cooled charge air cooler for after-cooled engine models
- FM approved cooling loop with raw water solenoid, flow switch and manual valves in main & emergency lines as per NFPA20 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
- Heat shield on exhaust manifold, turbo charger & CAC pipes
- Fire resistant flexible supply & return lines in fuel connections
- UL listed drive shafts

Optional Accessories offered with Kirloskar KFP range for Fire Pump OEMs







- Drive Shaft Assembly: Listed or Non-Listed along with Drive Shaft Guard
- Fabricated Base Frames customized to suite various Engine-Pump combinations for Drop-in assembly of pumps
- Engine Base frames for VT pump installations
- Torsional Couplings with free service of TV analysis report
- Battery kits
- Weather Proof / Sound Attenuated Enclosures
- Standard Tool Kit
- Engine Maintenance Kits



Engine ratings up to 2600 RPM

Enginemodel	Ratedoutput (HP)	RatedOutput (kW)	RatedSpeed (RPM)	FM	UL
KFP4R-UF07 NaturallyAspirated	62	46	1,760		@usTED
	70	52	2,100		
	74	55	2,200		
	74	55	2,350		
	77	57	2,600		
KFP4R-UF15 TurboAfter-Cooled	108	80	1,760		@usTED
	111	83	2,100		
	117	87	2,200		
	143	106	2,350		
	151	113	2,600		
KFP6R-UF25 TurboAfter-Cooled	169	126	1,760		@usTED
	191	142	2,100		
	196	146	2,200		
	203	151	2,350		
	225	168	2,600		
KFP6S-UF35 TurboAfter-Cooled	288	215	1,760		@usTED
	336	250	2,100		
	332	247	2,200		
	330	246	2,350		

Engine ratings above 2600 RPM

Enginemodel	Ratedoutput(HP)	RatedOutput (kW)	RatedSpeed (RPM)	FM	UL
KFP4R-FM05D1 Naturally Aspirated	43	32	2,900		NA
KFP4R-UF0S Naturally Aspirated	57	42	2,800		@usTED
	56*	42	2,900		
	55	41	3,000		
KFP4R-UF08 Naturally Aspirated	77	57	2,800		@usTED
	77*	57	2,900		
	76	56	3,000		
KFP4R-UF16R1 TurboAfter-Cooled	105	78	2,800		@usTED
	128*	95	2,900		
	152	113	3,000		
KFP4R-UF16R2 TurboAfter-Cooled	146	108	2,800		@usTED
	131*	97	2,900		
	116	86	3,000		
KFP6R-UF26R1 TurboAfter-Cooled	251	187	2,800		@usTED
	249*	185	2,900		
	247	184	3,000		
KFP6R-UF26R2 TurboAfter-Cooled	164	122	2,800		@usTED
	191*	141	2,900		
	217	161	3,000		

* : Value interpolated at 2,900 rpm between minimum 2,800 rpm and maximum 3,000 rpm

** : These are current tentative ratings, under FM consideration. These will be offered in future with FM approval

Values are rounded off from the decimals to the nearest whole value

The Final offered Listed Ratings may vary slightly

Above mentioned Engine Ratings are as per NFPA 20 & FM approved guidelines and are applicable for stationary emergency standby fire pump service alone Engines are rated at Standard site conditions with Temperature of 25 °C, Altitude of 91 m (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 or visit <http://kfp.kirloskar.com>

Brief specifications

Models	KFP4R- UF 05	KFP4R-UF 07/08	KFP4R-UF 15/16	KFP6R-UF 25/26	KFP6S-UF 35
Engine Description	Vertical, Liquid Cooled, Compression Ignition, Four Stroke, Naturally Aspirated		Vertical, Liquid Cooled, Compression Ignition, Four Stroke, / Turbo After-Cooled Diesel Engines		
Bore x Stroke (mm)	96 x 112	105 x 120		105 x 125	118 x 135
Displacement (cc)	3242	4160		6480	8800
Compression Ratio	18:01	18:01	18:01	17.6:1	17.5:1
Direction of Rotation	Counter- Clockwise (Looking from Flywheel End)				
Speed-Max Operating (rpm)	3000				2350
Min. Operating (rpm)	1760				
Dimensions (mm) L x W x H	1248x878x1120	1840x1140x1580	1840x1140x1580	2130x1330x1630	2270x1580x1890
Weight (kg)	500	580	630	880	1160

For inquiries & more information visit <http://kfp.kirloskar.com>

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Technical details mentioned above are approximate & may change as per site condition / situation. As continuous improvements are contemplated the description and illustrations are not binding.



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A Kirloskar Group Company

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