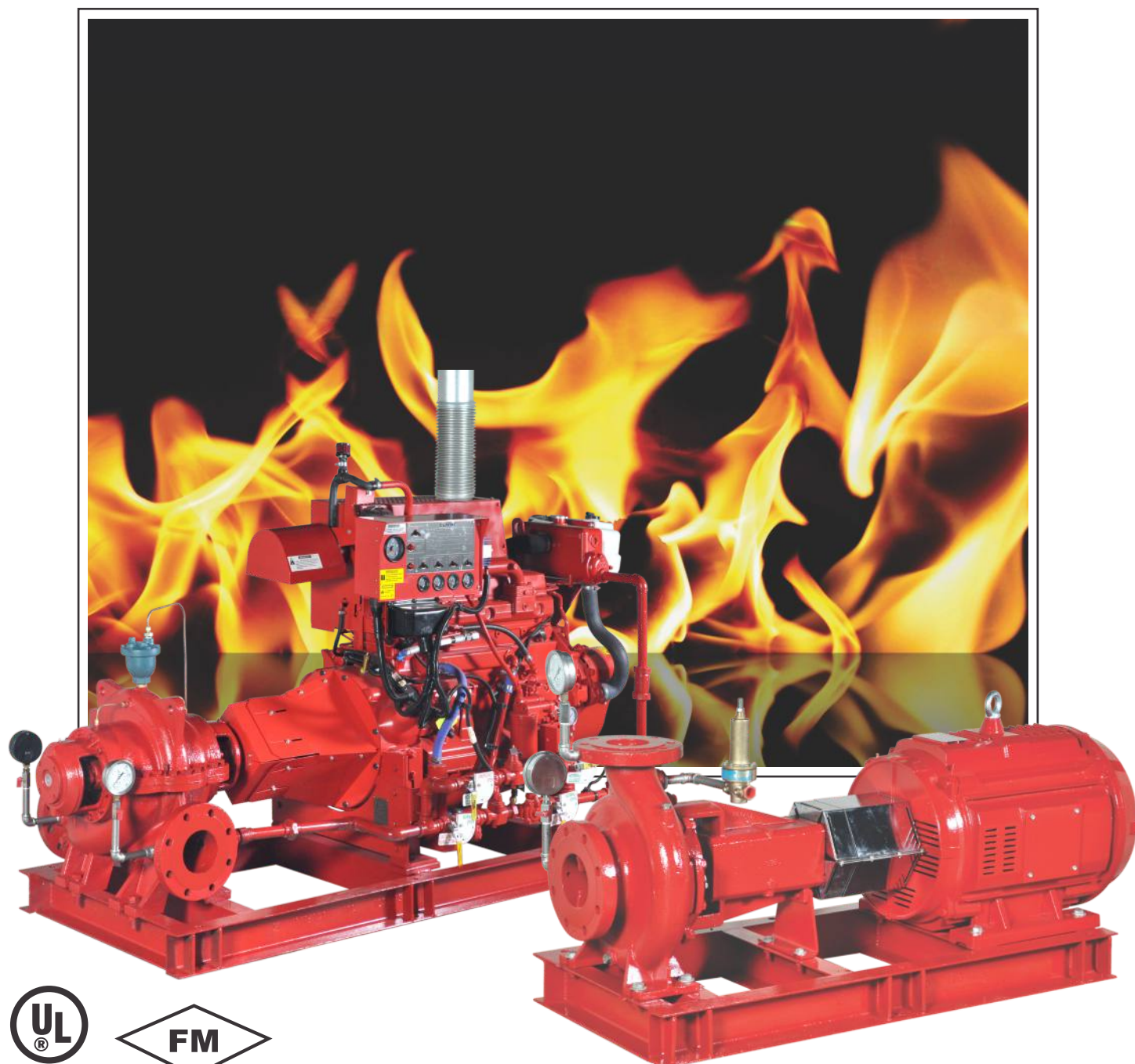


FLHC & FLBS SERIES

FIRE PUMPS 60 Hz

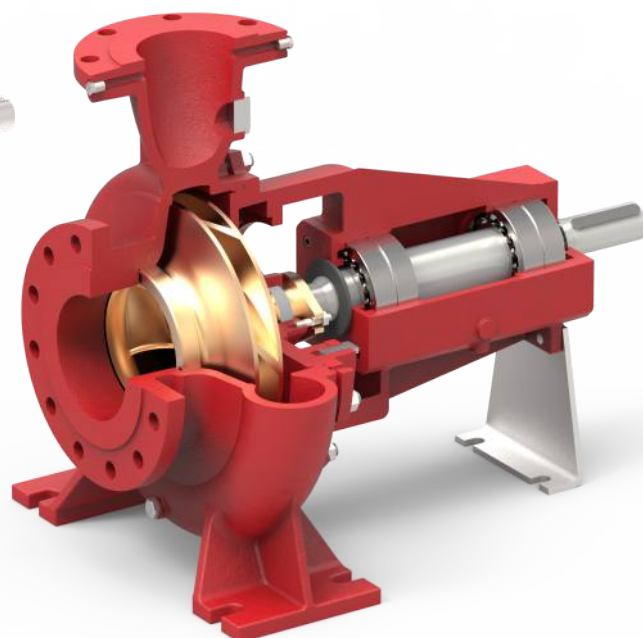
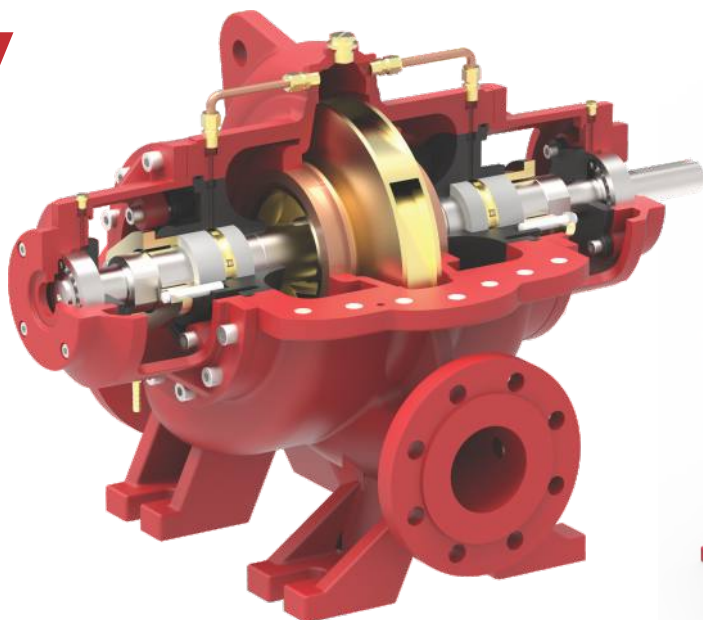


Passion for Pumps





Passion for Pumps



When it comes to the science of pumping, Lubi pumps present smart, sturdy and sustainable pumping solutions with over 50 years of unmatched experience and expertise for applications in the Centrifugal Pump industry.

We have nine state of the art modern, high technology, manufacturing facilities in India comprising of more than 350,000 square meter of floor area to manufacture the entire range of products offered by Lubi.

All the manufacturing facilities are ISO-9001-2008 certified for Quality Systems and ISO 14001- 2004 certified for Environment Management Systems by TUV, Germany.

We are a vertically integrated manufacturing company where starting from Design and Engineering of products to manufacturing of components, assembly, testing and final finishing and packaging is done within our various manufacturing facilities. This helps us in providing our customers with Top Quality, Competitively Priced Products delivered on time.

We have a wide range of Fire Pumps and Controllers covering a range from 100 to 1250 USGPM and pressure from 66 psi to 300 psi. Our range of UL Listed and /or FM Approved Fire Pumps includes the Horizontal Split Case and End Suction Pumps. These can be provided with Diesel Engine or Electric Motors as per customer requirements. We also have a full range of Vertical Multistage Jockey Pumps to maintain the pressure in the Fire Systems. We follow the NFPA 20 standard as far as Pump Design and Specifications are concerned.

We export our products worldwide to more than 80 countries. We have a subsidiary company in UAE for distribution of products in Middle East.

Our aim is to provide a Comprehensive Pumping Solution to the customer with Quality Products which are Priced Competitively, delivered On Time and have the Lowest Life Cycle cost, supported by impeccable After Sales Service.

Photographs of a few Manufacturing Units



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Horizontal Split Case Fire Pumps	16



Product data

End Suction Fire Pumps

FLBS



Introduction

Lubi offers FLBS series state-of-the-art fire pumps with diesel engine or electric motor driven, single-stage End-Suction pump.

These pumps are typically used in fire-fighting applications for supplying water to fire hose reels, fire hydrants or sprinkler systems.

Pumps have a discharge range from 100 to 1250 USgpm and the head range from 5.24 to 20.61 bar.

These fire pumps meet or exceed the requirements of NFPA20.

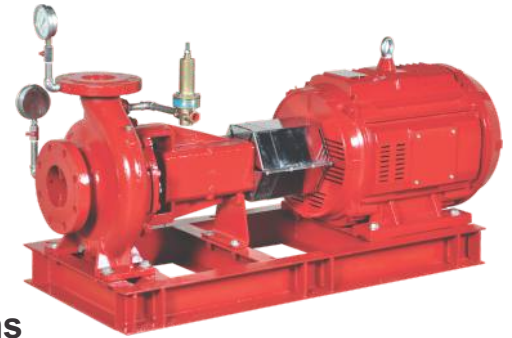
Installations of these pumps would ensure the safety of human life, buildings, and expensive equipments and plants. FLBS fire pumpset shall be used only where a positive suction is provided as specified in NFPA20.

There fire pumps typically consists of the following equipments:

- Single-Stage End-Suction pump
- Electric motor or Diesel Engine
- Cooling system for Diesel Engine
- Fuel system for Diesel Engine
- Battery for Diesel Engine electric start
- Exhaust system for Diesel Engine
- Diesel Engine / Electric Motor Fire pump controller
- Suction and Discharge pressure gauges
- Casing Relief Valve for Motor Fire pump
- Base frame

All above equipments except fuel supply tank and fire pump controller are mounted on a common base frame.

Lubi can also supply packaged fire pumping system with all required accessories ready for site installation.



Applications

The FLBS fire pumpsets are used in small capacity, diesel engine or motor driven fire-fighting applications for supplying water to fire hose reels, fire hydrants or sprinkler systems in areas which are prone to the hazards of fire.

The typical applications are as follow:

- Commercial complexes & high rise buildings
- Petrochemical industries and Gas plants
- Airports and ports
- Jetties
- Marine applications
- Power stations and transformer stations
- Chemical industries
- Manufacturing plants
- Fire-work industries
- Warehouses / godowns

Features & benefits

FLBS fire pumpset offers all the features & benefits as mentioned in our LBS standard pump series data booklet. Following are the additional features & benefits offered by these pumpsets:

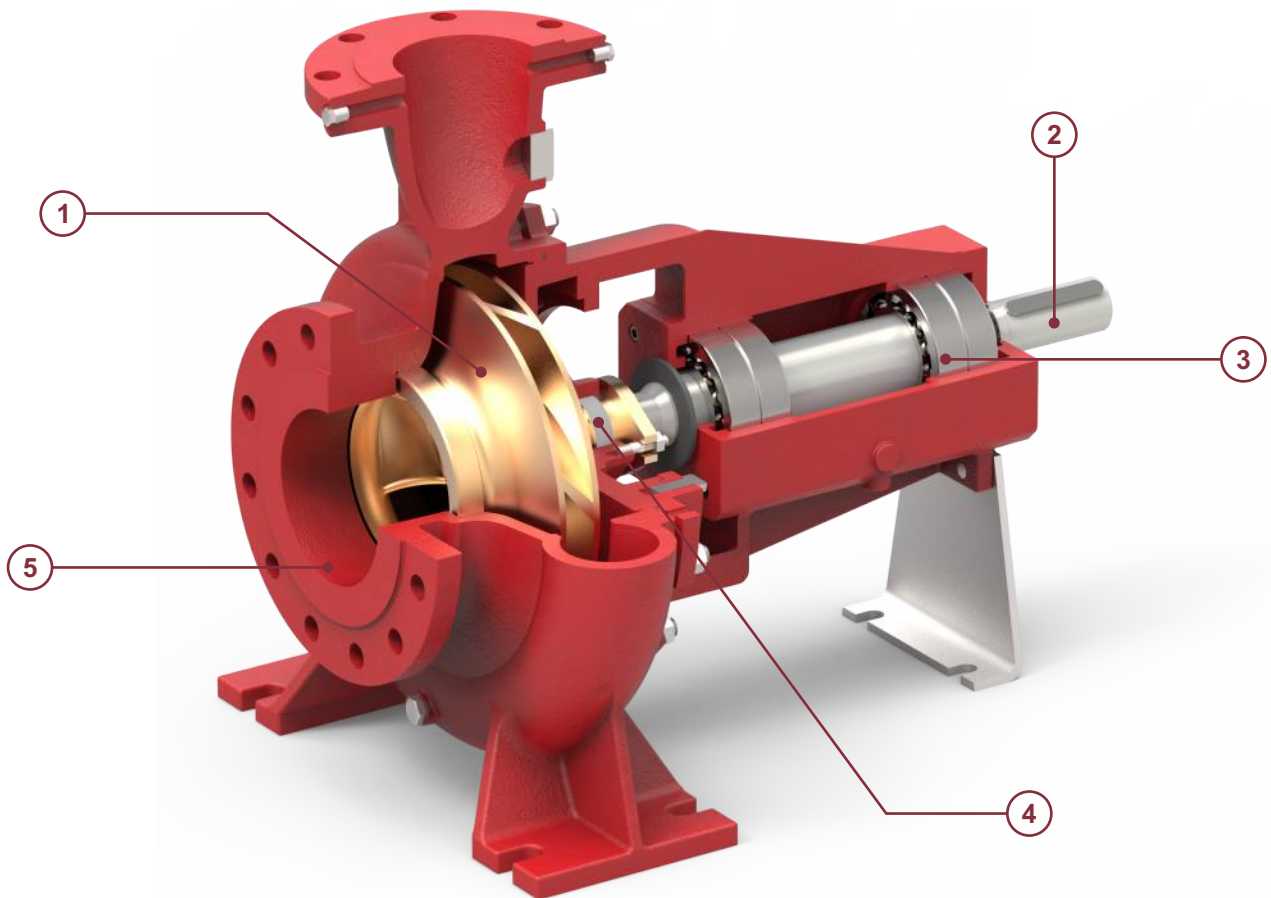
- State-of-the-art design fire pumping system.
- NFPA-20 design
- Compact diesel engine driven pump package
- Rugged construction
- More economical than Horizontal Split Case diesel fire pump packages
- Back pull-out design which simplifies inspection and maintenance without disturbing pipe work
- The pump impellers are dynamically balanced to grade 6.3 of ISO 1940-1
- Efficient operation
- Lower initial cost
- Reduced installation time and cost
- Easy access to all working parts
- Ease of maintenance
- Single source unit responsibility.

Type keys - Fire pump

FLBS

Example	FLBS	125	100	250
Type range				
Suction size (mm)				
Delivery size (mm)				
Nominal Impeller diameter (mm)				

General Pump Features



1 - Impeller & Casing

- Impeller is dynamically balanced to grade G6.3 balance quality in accordance to ISO 1940-1.
- Impeller & Casing are designed using state of art CFD tools to ensure optimal performance.

2 - Shaft

- Heavy duty stainless steel shaft completely sealed and dry for zero corrosion.
- Short and rigid with negligible vibrations.
- Replaceable shaft protecting sleeves.
- No threads exposed to pump medium, long operating life and no corrosion.
- Adjustment-free assembly.

3 - Bearing

- Heavy duty and permanently grease lubricated antifriction bearings for long service life.
- Open gland, enough space for service activities.

4 - Seal

- Asbestos - free, soft packed stuffing boxes.

5 - Casing

- End Suction backpullout design permits maintenance of the pump without removing the pipes.
- Rugged Ball Bearings on Drive as well as Non Drive end.
- Flange drilled as per ANSI B16.1 class 250.
- Smooth surface inside & CED coated for superior corrosion protection.
- Replaceable wear ring protect the casing and the impeller running clearances.
- Heavy duty casing design for high working pressure.

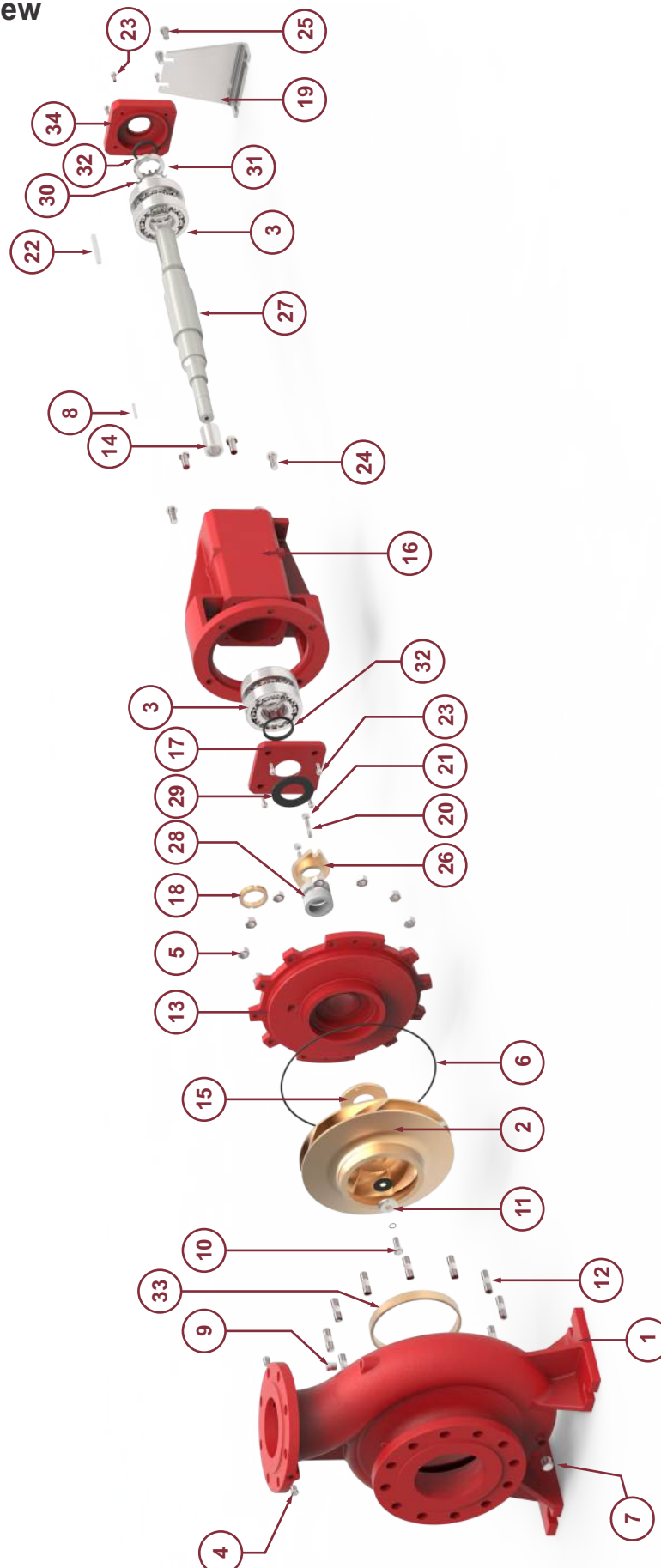


Product data

End Suction Fire Pumps

FLBS

Exploded View



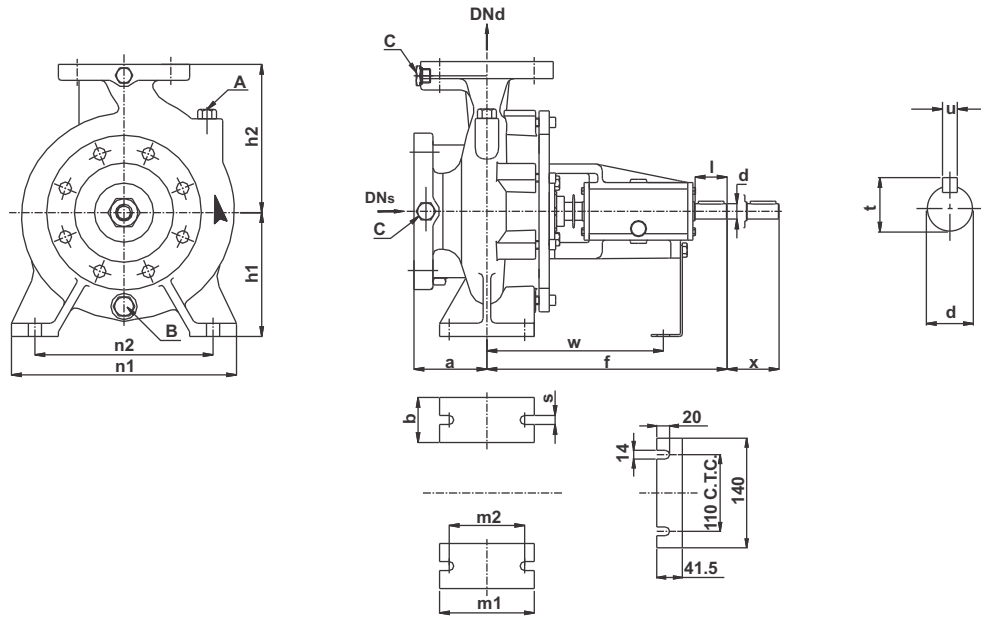
Part no.	Part name	Part no.	Part name	Part no.	Part name	Part no.	Part name
1	Casing	11	Impeller Washer	21	Hex Nut	31	Ring Nut
2	Impeller	12	Stud	22	Key	32	V-seal
3	Ball Bearing	13	Back Cover	23	Cap Screw	33	Wear Ring
4	Plug	14	Shaft Sleeve	24	Hex Bolt	34	Bearing Cover (DE)
5	Hex Nut	15	Gland Cover	25	Hex Bolt		
6	'O' Ring	16	Bearing Bracket	26	Gland		
7	Plug	17	Bearing Cover (NDE)	27	Shaft		
8	Key	18	Lentern Ring	28	Graphite Packing		
9	Plug	19	Foot	29	Water Thrower		
10	Hex Bolt	20	Stud	30	Locking Washer		

Product data

End Suction Fire Pumps

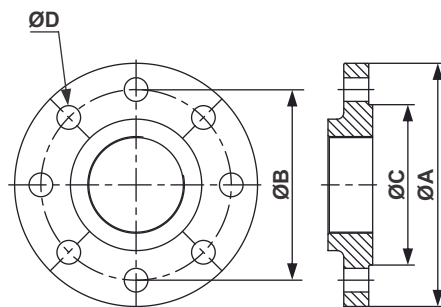
FLBS

Dimensions



Model	DN _s	DN _d	a	b	d.k6	f	h ₁	h ₂	l	m ₁	m ₂	n ₁	n ₂	s	t	u	w	x	A	B	C
FLBS 65-40-250	65	40	100	65	24	360	180	225	50	125	95	320	250	14	27	8	260	100	Ø3/8"	Ø1/2"	Ø1/4"
FLBS 80-65-250	80	65	100	80	42	482	200	250	80	160	120	360	280	18	45	12	340	140	Ø3/8"	Ø1/2"	Ø1/4"
FLBS 125-100-200	125	100	125	80	42	482	200	250	80	160	120	360	280	18	45	12	340	140	Ø3/8"	Ø1/2"	Ø1/4"
FLBS 125-100-250	125	100	140	80	42	527	225	280	110	160	120	400	315	18	45	12	360	140	Ø3/8"	Ø1/2"	Ø1/4"
FLBS 125-100-315	125	100	140	80	48	630	250	315	110	160	120	400	315	18	51.5	14	445	140	Ø3/8"	Ø1/2"	Ø1/4"
FLBS 150-125-250	150	125	140	80	42	630	250	355	110	160	120	400	315	18	51.5	14	445	140	Ø3/8"	Ø1/2"	Ø1/4"
FLBS 150-125-315	150	125	140	100	48	640	280	355	110	200	150	500	400	22	51.5	14	455	140	Ø3/8"	Ø1/2"	Ø1/4"

Flange Dimensions



ANSI 250 Flange Dimensions

Model	Suction				Discharge			
	ØA	ØB	ØC	ØD x Nos. of holes	ØA	ØB	ØC	ØD x Nos. of holes
FLBS 65-40-250	190	149	125	Ø7/8" x 8	155	114	91	Ø7/8" x 4
FLBS 80-65-250	210	168	144	Ø7/8" x 8	190	149	125	Ø7/8" x 8
FLBS 125-100-200	280	235	211	Ø7/8" x 8	255	200	176	Ø7/8" x 8
FLBS 125-100-250	280	235	211	Ø7/8" x 8	255	200	176	Ø7/8" x 8
FLBS 125-100-315	280	235	211	Ø7/8" x 8	255	200	176	Ø7/8" x 8
FLBS 150-125-250	320	270	246	Ø7/8" x 12	280	235	211	Ø7/8" x 8
FLBS 150-125-315	320	270	246	Ø7/8" x 12	280	235	211	Ø7/8" x 8



Product range

End Suction Fire Pumps

FLBS

Approved Fire Pump Models with Rating

RATED CAPACITY- 100 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	FLBS 80-65-250	87-191	5.99-13.16	87-193	5.99-13.30	3550	3	2.5	1
2	FLBS 80-65-250	84-134	5.79- 9.23	84-129	5.79-8.89	2900	3	2.5	1
3	FLBS 65-40-250	95-127	6.55- 8.73	96-127	6.61-8.75	2900	2.5	1.5	1

RATED CAPACITY- 150 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	FLBS 80-65-250	84-191	5.7-13.16	84-193	5.79-13.30	3550	3	2.5	1
2	FLBS 80-65-250	83-135	5.72- 9.30	83-129	5.72-8.89	2900	3	2.5	1

RATED CAPACITY- 200 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	FLBS 80-65-250	81-191	5.58-13.16	81-193	5.58-13.30	3550	3	2.5	1
2	FLBS 80-65-250	81-135	5.58-9.30	81-129	5.58-8.89	2900	3	2.5	1

RATED CAPACITY- 250 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	FLBS 80-65-250	76-191	5.2-13.16	76-193	5.24-13.30	3550	3	2.5	1
2	FLBS 80-65-250	78-134	5.37-9.23	77-129	5.30-8.89	2900	3	2.5	1

RATED CAPACITY- 300 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	FLBS 125-100-200	87-123	5.9-8.48	87-122	5.99-8.41	3550	5	4	1
2	FLBS 125-100-250	120-195	8.27-13.44	121-196	8.34-13.51	3550	5	4	1
3	FLBS 125-100-250	94-132	6.48-9.10	94-132	6.48-9.10	2900	5	4	1

Product range

End Suction Fire Pumps

FLBS

Approved Fire Pump Models with Rating

RATED CAPACITY- 400 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	FLBS 125-100-200	86-122	5.92-8.41	85-121	5.86-8.34	3550	5	4	1
2	FLBS 125-100-250	118-195	8.13-13.44	119-195	8.20-13.44	3550	5	4	1
3	FLBS 125-100-315	176-299	12.13-20.61	177-300	12.20-20.68	3550	5	4	1
4	FLBS 125-100-250	93-131	6.41-9.03	93-131	6.41-9.03	2900	5	4	1
5	FLBS 125-100-315	122-207	8.41-14.27	118-203	8.13-13.99	2900	5	4	1

RATED CAPACITY- 450 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	FLBS 125-100-200	84-122	5.79-8.41	84-122	5.79-8.41	3550	5	4	1
2	FLBS 125-100-250	117-194	8.06-13.3	118-195	8.13-13.44	3550	5	4	1
3	FLBS 125-100-315	175-298	12.06-20.54	176-300	12.13-20.68	3550	5	4	1
4	FLBS 125-100-250	92-131	6.34-9.03	93-131	6.41-9.03	2900	5	4	1
5	FLBS 125-100-315	121-207	8.34-14.27	117-203	8.13-13.99	2900	5	4	1

RATED CAPACITY- 500 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	FLBS 125-100-200	83-122	5.75-8.41	83-122	5.72-8.41	3550	5	4	1
2	FLBS 125-100-250	116-194	7.99-13.37	117-194	8.06-13.37	3550	5	4	1
3	FLBS 125-100-315	174-298	11.99-20.54	175-299	12.06-20.61	3550	5	4	1
4	FLBS 125-100-250	91-130	6.27-8.96	91-130	6.27-8.96	2900	5	4	1
5	FLBS 125-100-315	120-207	8.27-14.27	116-203	7.99-13.99	2900	5	4	1



Product range

End Suction Fire Pumps

FLBS

Approved Fire Pump Models with Rating

RATED CAPACITY- 750 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				

1	FLBS 125-100-200	77-118	5.30-8.13	77-118	5.30-8.13	3550	5	4	1
2	FLBS 125-100-250	110-191	7.58-13.16	110-191	7.58-13.16	3550	5	4	1
3	FLBS 125-100-315	167-296	11.51-20.40	168-298	11.58-20.54	3550	5	4	1
4	FLBS 125-100-250	86-125	5.92-8.61	85-125	5.86-8.61	2900	5	4	1
5	FLBS 125-100-315	111-203	7.65-13.99	108-199	7.44-13.72	2900	5	4	1

RATED CAPACITY- 1000 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				

1	FLBS 150-125-250	101-183	6.9-12.61	101-181	6.96-12.47	3550	6	5	1
2	FLBS 150-125-315	153-220	10.54-15.16	157-221	10.82-15.23	3550	6	5	1
3	FLBS 150-125-315	104-188	7.17-12.96	99-190	6.82-13.1	2900	6	5	1

RATED CAPACITY- 1250 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				

1	FLBS 150-125-315	146-217	10.06-14.96	150-217	10.34-14.96	3550	6	5	1
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Product range

End Suction Fire Pumps

FLBS

End Suction Quick Selection guide

Rated Capacity in GPM (LPM)	Pressure in PSI(Bar) for Electric Motor driven Pump	Pump Model for Electric Driven	Pressure in PSI(Bar) for Diesel Engine driven Pump	Pump Model for Diesel Engine Driven	Rated Pressure in Bar	Jockey Pump Flow in USgpm	Jockey Pump Model	Electric Motor HP @ (3550 RPM)	Clarke DIESEL ENGINE HP @ (2100 RPM & 3000 RPM)	Jockey Pump HP @ 3450 RPM
100 (378)	87-191 (5.99- 13.16)	FLBS 65-250	84-134 (5.79- 9.23)	FLBS 65-250	6	5	LCR 1-08	15 HP	45 HP/3000 RPM	1HP
				FLBS 40-250	7	5	LCR 1-09	20 HP	45 HP/3000 RPM	1HP
			84-134 (5.79- 9.23)	FLBS 65-250	8	5	LCR 1-10	25 HP	45 HP/3000 RPM	1HP
				FLBS 65-250	9	5	LCR 1-11	25 HP	45 HP/3000 RPM	1.5HP
150 (567)	84-191 (5.79- 13.16)	FLBS 65-250	83-135 (5.72- 9.30)	FLBS 65-250	6	7.5	LCR 1-08	20 HP	45 HP/3000 RPM	1HP
					7	7.5	LCR 1-09	25 HP	45 HP/3000 RPM	1HP
					8	7.5	LCR 1-11	30 HP	45 HP/3000 RPM	1.5HP
					9	7.5	LCR 1-12	30 HP	45 HP/3000 RPM	1.5HP
200 (757)	81-191 (5.58-13.16)	FLBS 65-250	81-135 (5.58-9.30)	FLBS 65-250	5.7	9.9	LCR 1-09	20 HP	45 HP/3000 RPM	1HP
					6	10	LCR 1-10	20 HP	45 HP/3000 RPM	1HP
					7	10	LCR 1-11	25 HP	45 HP/3000 RPM	1.5HP
					8	10	LCR 1-13	30 HP	45 HP/3000 RPM	1.5HP
250 (946)	76-191 (5.24-13.16)	FLBS 65-250	78-134 (5.37-9.23)	FLBS 65-250	9	10	LCR 1-15	40 HP	45 HP/3000 RPM	2HP
					5.7	12.5	LCR 3-7	25 HP	45 HP/3000 RPM	1.5HP
					6	12.5	LCR 3-8	25 HP	45 HP/3000 RPM	1.5HP
					7	12	LCR 3-9	30 HP	45 HP/3000 RPM	1.5HP
300 (1135)	87-123 (5.99-8.48) 120-195 (8.27-13.44)	FLBS 100-200 FLBS 100-250	94-132 (6.48-9.10)	FLBS 100-250	8	12.5	LCR 3-11	40 HP	45 HP/3000 RPM	2HP
					9	12.5	LCR 3-12	40 HP	45 HP/3000 RPM	2HP
					6.5	15	LCR 3-10	50 HP	60 HP/3000 RPM	2HP
					7	15	LCR 3-10	50 HP	60 HP/3000 RPM	2HP
300 (1135)	87-123 (5.99-8.48) 120-195 (8.27-13.44)	FLBS 100-200 FLBS 100-250	94-132 (6.48-9.10)	FLBS 100-250	8	15	LCR 3-12	60 HP	60 HP/3000 RPM	2HP
					9	15	LCR 3-13	75 HP	71 HP/3000 RPM	3HP



Product range

End Suction Fire Pumps

FLBS

End Suction Quick Selection guide

Rated Capacity in GPM (LPM)	Pressure in PSI(Bar) for Electric Motor driven Pump	Pump Model for Electric Driven	Pressure in PSI(Bar) for Diesel Engine driven Pump	Pump Model for Diesel Engine Driven	Rated Pressure in Bar	Jockey Pump Flow in USgpm	Jockey Pump Model	Electric Motor HP @ (3550 RPM)	Clarke DIESEL ENGINE HP @ (2100 RPM & 3000 RPM)	Jockey Pump HP @ 3450 RPM
400 (1514)	86-122 (5.92 - 8.41)	FLBS 100-200	93-131 (6.41 - 9.03)	FLBS 100-250	6	20	LCR 4-6	50 HP	60 HP/3000 RPM	3HP
					7	20	LCR 4-8-7	60 HP	60 HP/3000 RPM	3HP
					8	20	LCR 4-8	60 HP	71 HP/3000 RPM	3HP
					9	20	LCR 4-8	75 HP	71 HP/3000 RPM	3HP
					10	20	LCR 4-9	100 HP	83 HP/3000 RPM	5HP
					11	20	LCR 4-10	100 HP	115 HP/3000 RPM	5HP
450 (1703)	118-195 (8.13 - 13.4)	FLBS 100-250	122-207 (8.41 - 14.27)	FLBS 100-315	12	20	LCR 4-11	100 HP	115 HP/3000 RPM	5HP
					13	20	LCR 4-12	100 HP	115 HP/3000 RPM	5HP
					14	20	LCR 4-13	125 HP	115 HP/3000 RPM	5HP
	176-299 (12.13 - 20.61)	FLBS 100-315								
	84-122 (5.79 - 8.41)	FLBS 100-200	92-131 (6.34 - 9.03)	FLBS 100-250	6.5	22.5	LCR 4-6	50 HP	60 HP/3000 RPM	3HP
					7	22.5	LCR 4-8-7	60 HP	60 HP/3000 RPM	3HP
450 (1703)					8	22.5	LCR 4-8	75 HP	71 HP/3000 RPM	3HP
					9	22.5	LCR 4-9	75 HP	83 HP/3000 RPM	5HP
					10	22.5	LCR 4-10	100 HP	83 HP/3000 RPM	5HP
					11	22.5	LCR 4-11	100 HP	115 HP/3000 RPM	5HP
	117-194 (8 - 13.37)	FLBS 100-250	121-207 (8.34 - 14.27)	FLBS 100-315	12	22.5	LCR 4-11	100 HP	115 HP/3000 RPM	5HP
					13	22.5	LCR 4-12	125 HP	115 HP/3000 RPM	5HP
450 (1703)	175-298 (12.06 - 20.54)	FLBS 100-315			14	22.5	LCR 4-13	125 HP	145 HP/3000 RPM	5HP

Product range

End Suction Fire Pumps

FLBS

End Suction Quick Selection guide

Rated Capacity in GPM (LPM)	Pressure in PSI(Bar) for Electric Motor driven Pump	Pump Model for Electric Driven	Pressure in PSI(Bar) for Diesel Engine driven Pump	Pump Model for Diesel Engine Driven	Rated Pressure in Bar	Jockey Pump Flow in USgpm	Jockey Pump Model	Electric Motor HP @ (3550 RPM)	Clarke DIESEL ENGINE HP @ (2100 RPM & 3000 RPM)	Jockey Pump HP @ 3450 RPM
500 (1892)	83-122 (5.72 - 8.41)	FLBS 100-200	91-130 (6.27 - 8.96)	FLBS 100-250	6.5	25	LCR 4-8-7	50 HP	60 HP/3000 RPM	3HP
					7	25	LCR 4-8-7	60 HP	60 HP/3000 RPM	3HP
					8	25	LCR 4-8	75 HP	71 HP/3000 RPM	3HP
					9	25	LCR 4-9	100 HP	83 HP/3000 RPM	5HP
	116-194 (7.99 - 13.37)	FLBS 100-250	120-207 (8.27 - 14.27)	FLBS 100-315	10	25	LCR 4-10	100 HP	115 HP/3000 RPM	5HP
					11	25	LCR 4-11	100 HP	115 HP/3000 RPM	5HP
					12	25	LCR 4-12	125 HP	115 HP/3000 RPM	5HP
					13	25	LCR 4-13	125 HP	145 HP/3000 RPM	5HP
	174-298 (11.99-20.54)	FLBS 100-315			14	25	LCR 4-14	125 HP	145 HP/3000 RPM	5HP
750 (2838)	77-118 (5.30 - 8.1)	FLBS 100-200	86-125 (5.92 - 8.61)	FLBS 100-250	6	37.5	LCR 5-10	60 HP	71 HP/3000 RPM	3HP
					7	37.5	LCR 5-12	75 HP	83 HP/3000 RPM	5HP
					8	37.5	LCR 5-14	100 HP	115 HP/3000 RPM	5HP
					9	37.5	LCR 5-15	100 HP	115 HP/3000 RPM	5HP
	110-191 (7.58 - 13.16)	FLBS 100-250	111-203 (7.65 - 13.99)	FLBS 100-315	10	37.5	LCR 5-18	125 HP	115 HP/3000 RPM	7.5HP
					11	37.5	LCR 5-18	125 HP	145 HP/3000 RPM	7.5HP
					12	37.5	LCR 5-20	150 HP	145 HP/3000 RPM	7.5HP
					13	37.5	LCR 5-22	150 HP	175 HP/3000 RPM	7.5HP
	167-296 (11.51 - 20.40)	FLBS 100-315			13.99	37.5	LCR 5-24	200 HP	175 HP/3000 RPM	7.5HP



Product range

End Suction Fire Pumps

FLBS

End Suction Quick Selection guide

Rated Capacity in GPM (LPM)	Pressure in PSI(Bar) for Electric Motor driven Pump	Pump Model for Electric Driven	Pressure in PSI(Bar) for Diesel Engine driven Pump	Pump Model for Diesel Engine Driven	Rated Pressure in Bar	Jockey Pump Flow in USgpm	Jockey Pump Model	Electric Motor HP @ (3550 RPM)	Clarke DIESEL ENGINE HP @ (2100 RPM & 3000 RPM)	Jockey Pump HP @ 3450 RPM
1000 (3785)	101-183 (6.96 - 12.61)	FLBS 125-250	104-188 (7.17 - 12.96)	FLBS 125-315	7.5	50	LCR 10-7	125 HP	115 HP/3000 RPM	5HP
					8	50	LCR 10-7	125 HP	145 HP/3000 RPM	5HP
					9	50	LCR 10-8	150 HP	145 HP/3000 RPM	7.5HP
					10	50	LCR 10-9	200 HP	175 HP/3000 RPM	7.5HP
					11	50	LCR 10-10	200 HP	216 HP/3000 RPM	7.5HP
					12	50	LCR 10-10	200 HP	216 HP/3000 RPM	7.5HP
	153-220 (10.54 - 15.16)	FLBS 125-315			12.96	50	LCR 10-12	200 HP	216 HP/3000 RPM	7.5HP

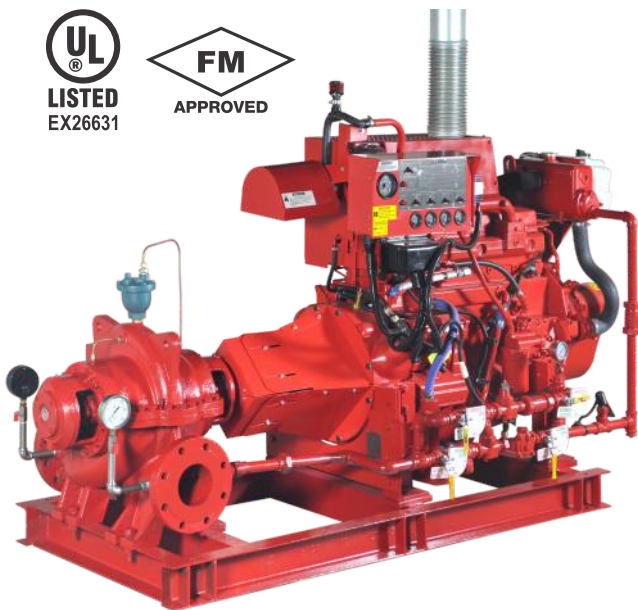
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Product data

Horizontal split case fire pumps

FLHC



Introduction

Lubi offers FLHC series state-of-the-art fire pumps with diesel engine/electric motor driven, horizontal split case pump.

These pumps are typically used in fire-fighting applications for supplying water to fire hose reels, fire hydrants or sprinkler systems.

Pumps have a discharge range from 450 to 750 USgpm and the head range from 6.4 to 14.65 bar.

These fire pumps meet or exceed the requirements of NFPA20.

Installations of these pumps would ensure the safety of human life, buildings, expensive plants and equipments. FLHC fire pumpset shall be used only where a positive suction is provided as specified in NFPA20.

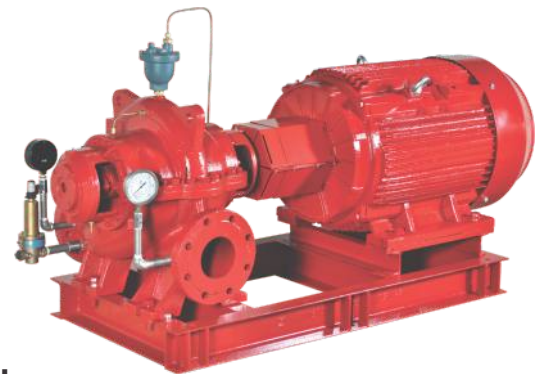
The fire pumps typically consists of the following equipments:

- Pump
- Electric motor/Diesel engine assembled with
 - cooling system (for Diesel engine only)
 - fuel system (for Diesel engine only)
 - battery system (for Diesel engine only)
 - exhaust system (for Diesel engine only)
- Fire pump controller
- Suction and discharge gauges
- Air relief valve
- Common base plate

Note: For your jockey pump requirements kindly refer our literature for LCR and/or LES pumps.

All above equipments except fuel supply tank and fire pump controller are mounted on a common base frame.

Lubi can also supply Packaged fire pumping system with all required accessories ready for site installation.



Applications

The FLHC fire pumps are used in fire-fighting applications for supplying water to fire hose reels, fire hydrants or sprinkler systems in areas which are prone to the hazards of fire.

The typical applications are as follow:

- Commercial complexes and high rise buildings
- Petrochemical industries and Gas plants
- Oil and Gas on-shore & off-shore platforms
- Oil terminals
- Airports and ports
- Jetties
- Marine applications
- Power stations and transformer stations
- Chemical industries
- Manufacturing plants
- Fire-work industries
- Warehouses/godowns.

Features & benefits

FLHC fire pumps offers all features & benefits as mentioned in our LHC standard pump series data booklet. Following are the additional features & benefits offered by these pumps:

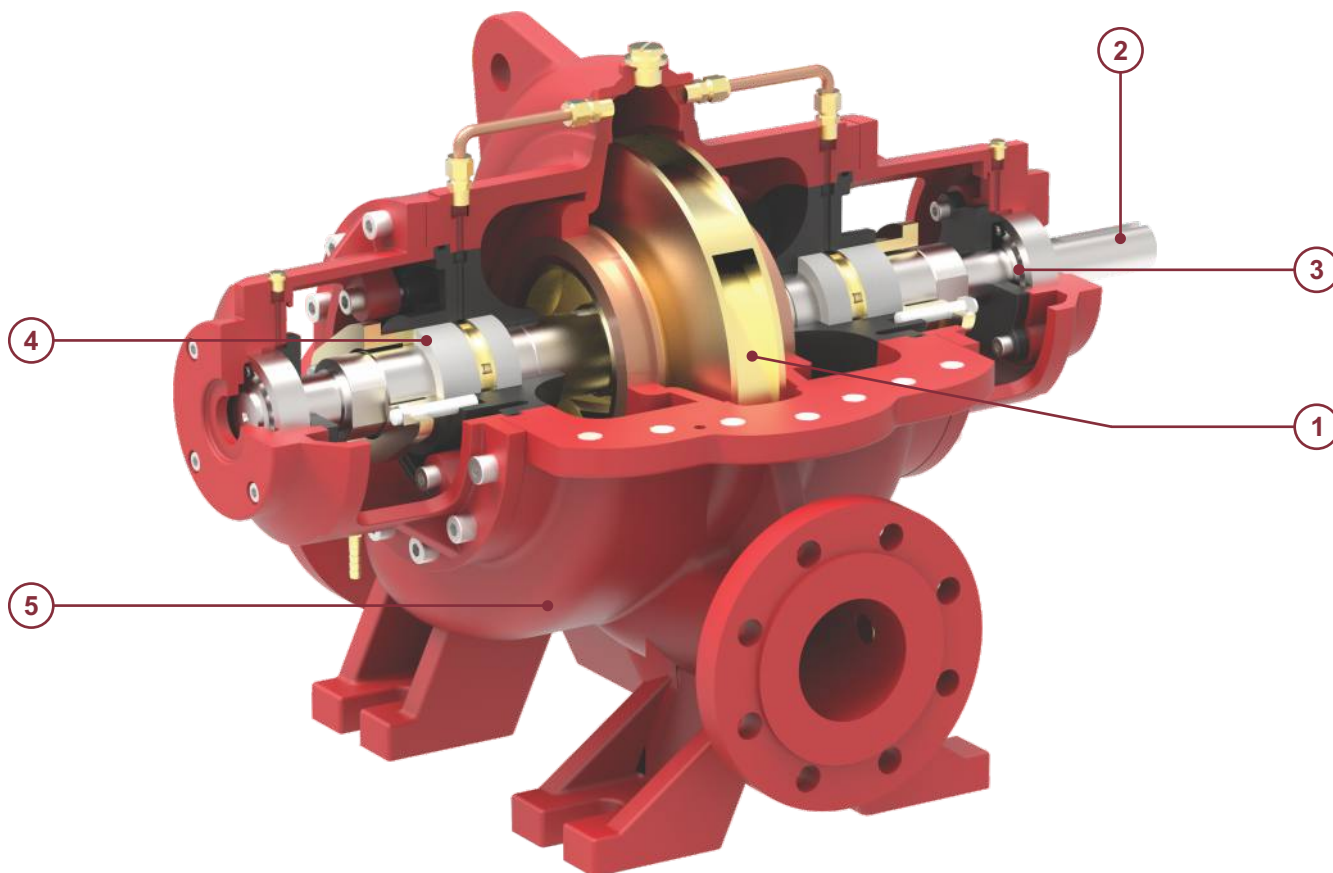
- State-of-the-art design fire pumping system.
- UL listed/FM approved/NFPA-20 design
- Diesel engine as well as electric motor driven pump
- Rugged construction
- Liberal water passages
- Automatic air relief valve
- Efficient operation
- Lower initial cost
- Reduced installation time and cost
- Simplified piping design
- Suitable for space saving installation systems and retrofit applications
- Easy access to all working parts
- Ease of maintenance
- Single source unit responsibility.

Type keys - Fire pump

FLHC

Example	FLHC	125	100	250
Type range				
Suction size (mm)				
Delivery size (mm)				
Nominal Impeller diameter (mm)				

General Pump Features



1 - Impeller & Casing

- Minimal axial thrust due to double-entry impeller.
- Impeller is dynamically balanced to G6.3 balance quality Grade in accordance to ISO 1940-1.
- Impeller & Casing are designed using state of the art CFD tools to ensure optimal performance.

2 - Shaft

- Heavy duty shaft completely sealed and dry of zero corrosion.
- Short and rigid with negligible vibrations.
- Replaceable shaft protecting sleeves.
- No threads exposed to pump medium, long operating life and no corrosion.
- Adjustment-free assembly.

3 - Bearing

- Heavy duty and grease lubricated antifriction Bearings for long service life.
- Open gland, enough space for service activities.

4 - Seal

- Asbestos - free, potable water quality soft packed stuffing boxes.

5 - Casing

- In-line axially split design which permits removal of the complete rotor without removing the pipe & motor.
- Short distance between bearings.
- Leak-tight due to compact joint flange with long Pre-stressed bolts.
- Counter-rotation possible with similar parts.
- Easy mounting self-aligning upper casing.
- Flange drilled as per ANSI B16.1 class 250.
- Smooth surface inside CED coated for superior corrosion protection.
- Replaceable wear ring protect the casing and the impeller running clearances.
- Heavy duty casing design for high working pressure.

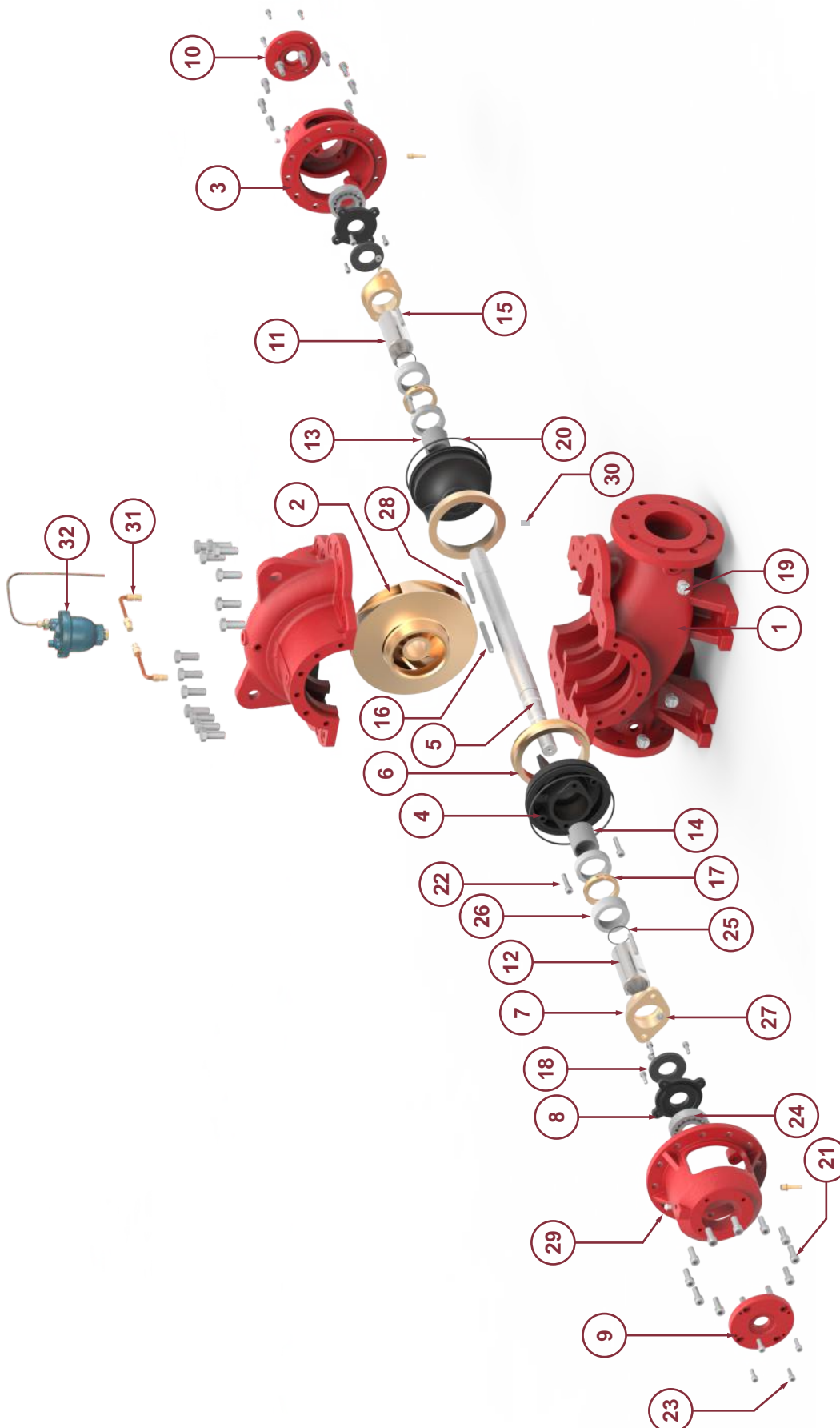


Product data

Horizontal split case fire pumps

FLHC

Exploded View



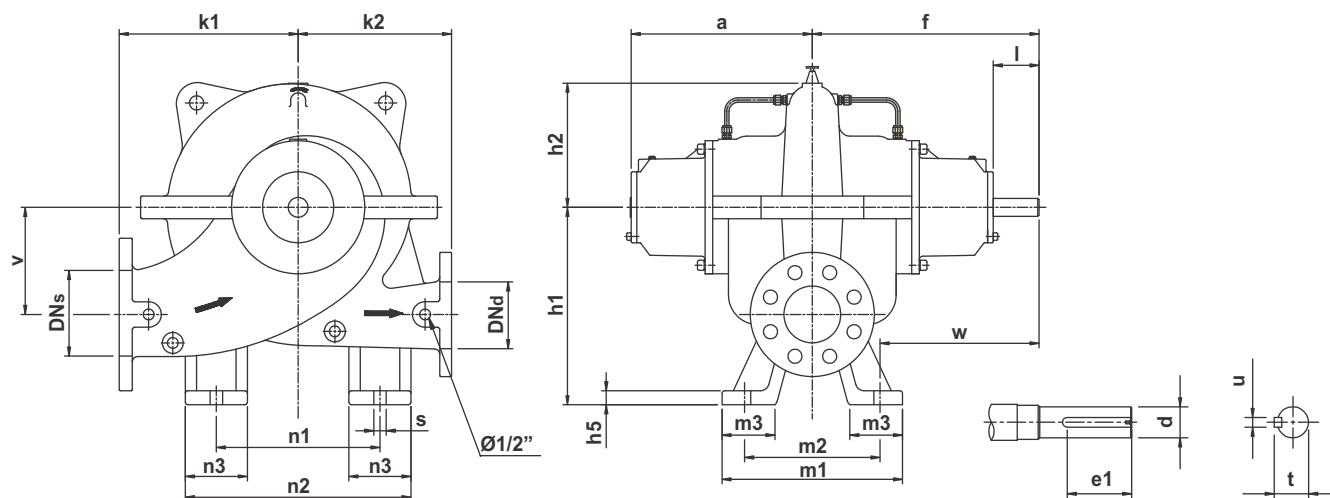
Part no.	Part name	Part no.	Part name	Part no.	Part name	Part no.	Part name
1	Split casing	11	R.H. Sleeve	21	Cap screw with spring washer	31	Hose pipe
2	Impeller	12	L.H. Sleeve	22	Cap screw	32	Automatic Air Release Valve
3	Bearing housing	13	Shaft sleeve	23	Cap screw		
4	Back cover	14	Shaft sleeve	24	Ball bearing		
5	Shaft	15	Stud	25	'O' ring		
6	Wear ring	16	Key	26	Graphite packing		
7	Gland	17	Lantern ring	27	Hex nut		
8	Internal bearing cover	18	Water thrower	28	Key		
9	External bearing cover	19	Drain plug	29	Grease nipple		
10	External bearing cover(drive)	20	'O' ring	30	Dowel pin		

Product data

Horizontal split case fire pumps

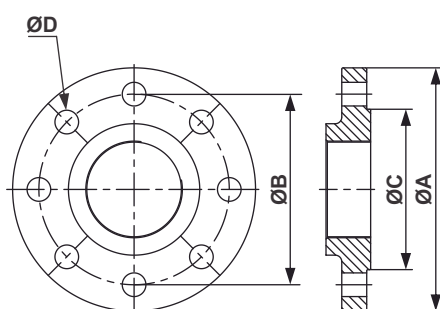
FLHC

Dimensions



Model	DN _s	DN _d	k1	k2	v	n1	n2	n3	a	f	h1	h2	h5	s	w	m1	m2	m3	d	l	e1	u	t
FLHC 125-100-250	125	100	310	250	170	250	350	100	323	402	320	199	25	22	282	320	240	95	32	81	65	10	35,3

Flange Dimensions



ANSI 250 Flange Dimensions

Model	Suction				Discharge			
	ØA	ØB	ØC	ØD x Nos. of holes	ØA	ØB	ØC	ØD x Nos. of holes
FLHC 125-100-250	280	235	211	Ø7/8" x 8	255	200	176	Ø7/8" x 8



Product range

Horizontal split case fire pumps

FLHC

Approved Fire Pump Models with Rating

RATED CAPACITY- 450 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	FLHC 125-100-250	101-205	6.9-14.13	100-205	6.89-14.13	3550	5	4	1
2	FLHC 125-100-250	71-131	4.89-9.03	75-136	5.1-9.3	2900	5	4	1

RATED CAPACITY- 500 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	FLHC 125-100-250	100-205	6.89-14.13	99-205	6.82-14.13	3550	5	4	1
2	FLHC 125-100-250	71-131	4.89-9.03	74-135	5.10-9.3	2900	5	4	1
3	FLHC 150-125-315	131-214	9-14.75	131-214	9-14.75	2900	6	5	1

RATED CAPACITY- 750 US GPM									
Sr. No.	Pump Model	UL Listed Pressure		FM Approved Pressure		Rated Speed (rpm)	Suction Inlet Dia. (inch)	Discharge Outlet Dia. (inch)	Stage(s)
		(psi)	(bar)	(psi)	(bar)				
1	FLHC 125-100-250	94-204	6.4-14.0	92-204	6.34-14.06	3550	5	4	1
2	FLHC 125-100-250	65-130	4.48-8.96	66-132	4.5-9.10	2900	5	4	1
3	FLHC 150-125-315	129-213	8.89-14.65	129-212	8.8-14.61	2900	6	5	1

Product range

Horizontal split case fire pumps

FLHC

Horizontal Split Case Quick Selection guide

Rated Capacity in GPM (LPM)	Pressure in PSI(Bar) for Electric Motor driven Pump	Pump Model for Electric Driven	Pressure in PSI(Bar) for Diesel Engine driven Pump	Pump Model for Diesel Engine Driven	Rated Pressure in Bar	Jockey Pump Flow in USgpm	Jockey Pump Model	Electric Motor HP @ (3550 RPM)	Clarke DIESEL ENGINE HP @ (2100 RPM & 3000 RPM)	Jockey Pump HP @ 3450 RPM
450 (1703)	101-205 (6.96-14.13)	FLHC 100-250 (5"X4")	71-131 (4.89-9.03)	FLHC 100-250 (5"X4")	7	22.5	LCR 4-8-7	60 HP	60HP-3000 RPM	3HP
					8	22.5	LCR 4-8	75 HP	71HP-3000 RPM	3HP
					9	22.5	LCR 4-9	75 HP	83HP-3000 RPM	5HP
	108-173 (7.44-11.92)	FLHC 125-400 (6"X5")	108-173 (7.44-11.92)	FLHC 125-400 (6"X5")	10	22.5	LCR 4-10	100 HP	105HP-2100 RPM	5HP
					11	22.5	LCR 4-11	100 HP	130HP-2100 RPM	5HP
					11.92	22.0	LCR 4-11	125 HP	130HP-2100 RPM	5HP
500 (1893)	100-205 (6.89-14.13)	FLHC 100-250 (5"X4")	71-131 (4.89-9.03)	FLHC 100-250 (5"X4")	7	25.0	LCR 4-8-7	60 HP	71HP-3000 RPM	3HP
					8	25.0	LCR 4-8	75 HP	83HP-3000 RPM	3HP
					9	25.0	LCR 4-9	100 HP	83HP-3000 RPM	5HP
	131-214 (9-14.75)	FLHC 125-315 (6"X5")	131-214 (9-14.75)	FLHC 125-315 (6"X5")	10	25.0	LCR 4-10	100 HP	145HP-3000 RPM	5HP
					11	25.0	LCR 4-11	100 HP	145HP-3000 RPM	5HP
					12	25.0	LCR 4-12	125 HP	175HP-3000 RPM	5HP
750 (2839)	94-204 (6.48-14.06)	FLHC 100-250 (5"X4")	65-130 (4.48-8.96)	FLHC 100-250 (5"X4")	13	25.0	LCR 4-13	125 HP	175HP-3000 RPM	5HP
					14	25.0	LCR 4-14	150 HP	216HP-3000 RPM	5HP
	129-213 (8.89-14.65)	FLHC 125-315 (6"X5")	129-213 (8.89-14.65)	FLHC 125-315 (6"X5")	6.5	37.5	LCR 5-11	75 HP	62KW (83HP)-3000	5HP
					7	37.5	LCR 5-12	75 HP	62KW (83HP)-3000	5HP
					8	37.5	LCR 5-14	100 HP	86KW (115HP)-3000	5HP
					9	37.5	LCR 5-15	100 HP	108KW (145HP)-3000	5HP
750 (2839)	94-204 (6.48-14.06)	FLHC 100-250 (5"X4")	129-213 (8.89-14.65)	FLHC 125-315 (6"X5")	10	37.5	LCR 5-18	125 HP	108KW (145HP)-3000	7.5HP
					11	37.0	LCR 5-18	125 HP	131KW (175HP)-3000	7.5HP
					12	37.5	LCR 5-20	150 HP	161KW (216HP)-3000	7.5HP
	129-213 (8.89-14.65)	FLHC 125-315 (6"X5")	129-213 (8.89-14.65)	FLHC 125-315 (6"X5")	13	37.5	LCR 5-22	150 HP	161KW (216HP)-3000	7.5HP
					14	37.5	LCR 5-24	200 HP	161KW (216HP)-3000	7.5HP
					14	37.5	LCR 5-24	200 HP	161KW (216HP)-3000	7.5HP

NOTES

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Product Improvement is a continuous process at 'LUBI'. The data given in this publication is therefore subject to revision.

00.00.230219.0185



Customer Care Number : 09824200800