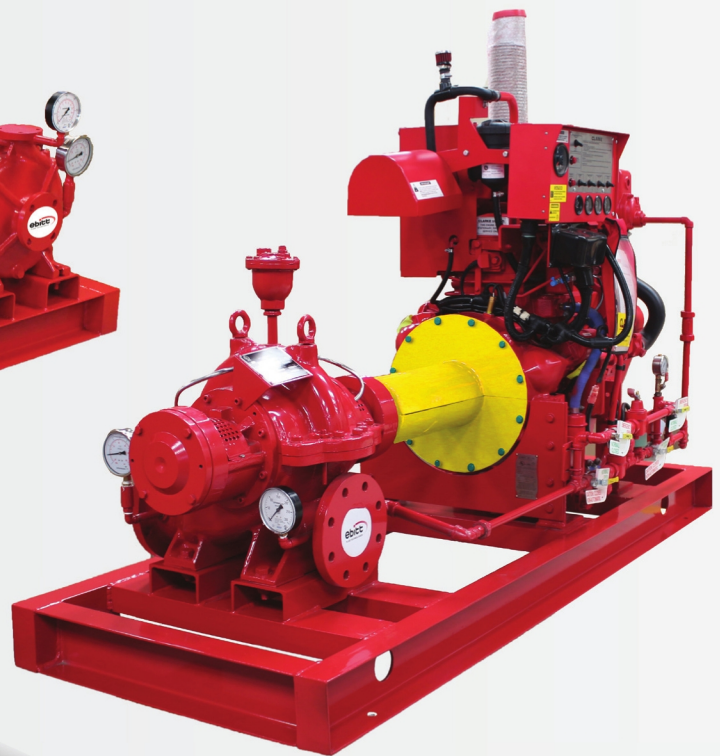
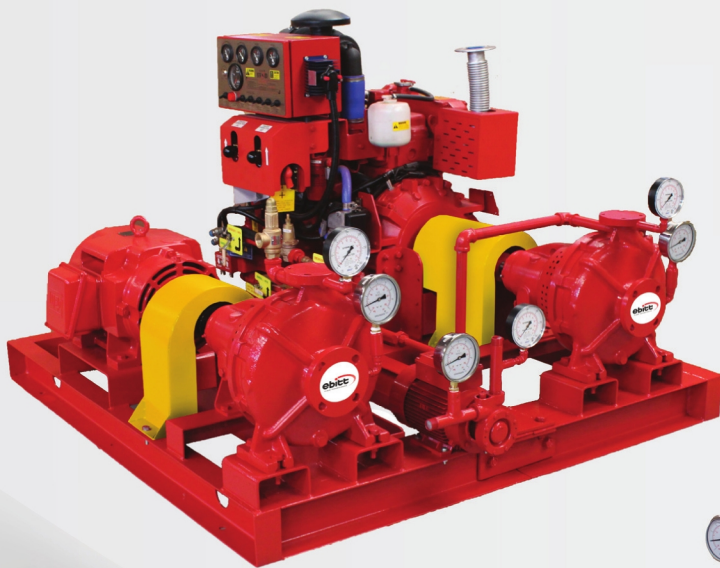


# FIRE PUMP SYSTEMS

**Horizontal Centrifugal  
End-Suction / Split-Case  
50 - 3000 USGPM at 71 - 304 PSI  
50 - 60 Hz / 2900-3550 RPM**



Metel Industries LLC started operations of manufacturing in Dubai in the year of 2002. It offers complete package of Listed and Non-Listed Firefighting Pumps as per various international standards. Metel Industries LLC is ISO 9001:2015 Certified company and NFPA member.

We have factory trained engineers and technicians which have up to date knowledge of latest production techniques. Our manufacturing facility is fully equipped with testing rig facility of Firefighting Pumps up to 3000 US GPM.

All our products are supported by in-house service maintenance facility which also undertakes annual maintenance contracts for firefighting pump systems, rewinding of electric motors, repair and service of diesel engines and controller panels with wide range of spare parts.

Our technical team are able to reach anywhere in U.A.E, within 1-3 hours maximum of receiving a call from customers.

We have an established network of distributors and channel partners all over the globe.





## Construction

The fire pump sets are being mounted and aligned with electric motor, and/or diesel engine on a common or separate base frame.

The fire pump package includes all pump fittings such as pressure gauges, casing relief valve, and automatic air release valve (for split-case models) to be supplied with approved electric and/or diesel fire pump controller.

Our fire pump sets can be designed as a package to be operated as for Plug and Run type upon customer request.

## Electric Motor

Ebitt UL approved fire pump sets comes with Open-Drip-Proof (ODP) type of electric motors (TEFC is optional). Our motors in our sets have UL Listings, IP23 and IP55 protection class, and class F insulation. The voltages are in 50/60 Hz, 220-440 Volts with Wye-Delta starting type as in standard (DOL and Soft-starting types are available upon customer request).

## Diesel Engine

Ebitt fire pumps are being directly connected through flexible coupling to the diesel engines. All our approved fire pumps are having UL Listed, FM Approved diesel engines with granted and guaranteed continuous power ratings.

The diesel engines conform to the requirements of NFPA 20 and specifically approved for fire pump application and service.

Diesel engines operate at a rated speed not exceeding the above RPM and develop sufficient horsepower to drive the pump with reserve power.

Internal Cooling System loop is included in our engine sets. The cooling water supply for the heat exchanger is from the discharge of the pump, taken off prior to the pump discharge valve.

The pipe connection includes four manual shut-off valves (including by-pass line), two strainers, two pressure regulators, an approved and listed automatic solenoid valve, and a pressure gauge, piping and fittings are all fitted

to the diesel engine as per NFPA20.

One set of double heavy-duty lead acid batteries (Four Batteries for 24V Engines) are being supplied and mounted on the battery rack with battery cables.

## Jockey Pump

Jockey pumps are of type of Vertical Multistage/Peripheral pumps which are used to compensate small leakages in fire protection system and automatically maintain the stand by pressure. Generally, jockey pumps are designed to 1% of total capacity of fire pump.

## Controller

Ebitt fire pump set includes fire pump controller on its own base plate complete with wiring cables to the electric motor. All settings are being made in Ebitt factory as ready for use.

All controllers meet the requirements of the latest edition of NFPA 20 and is UL Listed, FM approved.

## Fuel Tank

The fuel tank is produced and supplied by Metel Industries LLC according to NFPA 20 recommendations complete with fill pipe, cap and level gauge to be delivered separately from pump-set with legs for floor mounting.

## Minimum Fittings

All Ebitt fire pumps are being supplied with suction and discharge gauges, air release valve mounted on pumps. Our electric driven pump sets are also having casing relief valves mounted on our pumps.

## Testing

Ebitt fire pumps are being hydrostatically tested to a pressure recommended by UL. The fire pump is subjected to a performance test at a rated speed.

Our pumps furnish not less than 150% of rated capacity at a pressure not less than 65% of rated head. The shut-off head is not exceeding 140% of rated head. Ebitt certified test curve is being supplied with the pump.



## Horizontal Centrifugal End-Suction Pumps

Ebitt UL approved fire pumps are ideally developed and produced either for small flows or high flows through well-designed compact packages.

Ebitt N series End-Suction Fire pumps have back pull out design for easy maintenance, self-venting center line discharge, and low NPSH requirements.

The pump construction is ductile iron body, bronze fitted with packing. The shaft and sleeves are in AISI316 Stainless steel and be supported by thrust ball bearings, and radial roller bearing.



# End-Suction

Pump Capacity US GPM	Pump Model	Rated Net Pressure Range		Flange Sizes		Approximate Speed RPM	Maximum Working Pressure PSI
		PSI	BAR	Inches	DN		
50	N 32/250	102-145	7.0-10.0	2x1-1/4	50/32	3000	204
50	N 40/270	98-139	6.7-9.6	2-1/2x1-1/2	65/40	2950	220
50	N 40/270-60	142-197	9.8-13.6	2-1/2x1-1/2	65/40	3550	239
100	N 32/250	101-142	6.9-9.7	2x1-1/4	50/32	3000	204
100	N 40/270	93-133	6.4-9.1	2-1/2x1-1/2	65/40	2950	220
100	N 40/270-60	138-192	9.5-13.2	2-1/2x1-1/2	65/40	3550	239
150	N 32/250	97-137	6.6-9.4	2x1-1/4	50/32	3000	204
150	N 40/270	84-125	5.8-8.6	2-1/2x1-1/2	65/40	2950	220
150	N 40/270-60	131-184	9.0-12.7	2-1/2x1-1/2	65/40	3550	239
150	N 50/270	102-140	7.0-9.6	3x2	80/50	2950	232
200	N 50/260	99-138	6.8-9.5	3x2	80/50	3000	217
200	N 50/270	99-138	6.8-9.5	3x2	80/50	2950	232
200	N 80/270-60	134-207	9.2-14.3	5x3	125/80	3550	239
250	N 50/260	95-135	6.5-9.3	3x2	80/50	3000	217
250	N 50/270	95-135	6.5-9.3	3x2	80/50	2950	232
250	N 65/270	92-149	6.3-10.3	4x2-1/2	100/65	2950	232
300	N 65/260	92-139	6.3-9.5	4x2-1/2	100/65	3000	232
300	N 65/270	90-150	6.2-10.3	4x2-1/2	100/65	2950	232
300	N 80/270-60	133-207	9.2-14.3	5x3	125/80	3550	239
400	N 65/260	90-138	6.2-9.5	4x2-1/2	100/65	3000	232
400	N 65/270	87-146	6.0-10.0	4x2-1/2	100/65	2950	232
400	N 80/270	90-141	6.2-9.7	5x3	125/80	2950	233
400	N 80/270-60	134-206	9.2-14.2	5x3	125/80	3550	239
400	N 80/340	138-221	9.5-15.2	5x3	125/80	2950	303
450	N 65/260	87-135	6.0-9.3	4x2-1/2	100/65	3000	232
450	N 80/250	101-146	6.9-10.0	5x3	125/80	3000	203
450	N 80/270	88-139	6.0-9.6	5x3	125/80	2950	233
450	N 80/340	138-220	9.5-15.1	5x3	125/80	2950	303
450	N 100/270	87-146	6.0-10.0	5x4	125/100	2950	233
450	N 100/340	121-218	8.3-15.0	5x4	125/100	2950	300
500	N 80/250	99-146	6.8-10.0	5x3	125/80	3000	203
500	N 80/270	86-136	5.9-9.4	5x3	125/80	2950	233
500	N 80/270-60	131-204	9.0-14.0	5x3	125/80	3550	239
500	N 80/315	152-234	10.4-16.1	4x3	100/80	3000	270
500	N 80/340	136-217	9.4-14.9	5x3	125/80	2950	303
500	N 100/270	87-144	6.0-9.9	5x4	125/100	2950	233
500	N 100/270-60	131-204	9.0-14.0	5x4	125/100	3550	270
500	N 100/315	144-213	9.9-14.6	5x4	125/100	3000	247
500	N 100/325	123-196	8.5-13.5	6x4	150/100	2950	310
500	N 100/340	121-217	8.3-15.0	5x4	125/100	2950	300
750	N 100/250	79-142	5.4-9.7	5x4	125/100	3000	189
750	N 100/270	81-139	5.6-9.6	5x4	125/100	2950	233
750	N 100/270-60	126-200	8.6-13.8	5x4	125/100	3550	270
750	N 100/315	137-210	9.4-14.4	5x4	125/100	3000	247
750	N 100/325	119-193	8.2-13.3	6x4	150/100	2950	310
750	N 100/330	186-217	12.8-14.9	6x4	150/100	3000	290
750	N 100/340	115-213	7.9-14.7	5x4	125/100	2950	300
750	N 125/315	139-222	9.5-15.3	6x5	150/125	3000	260
1000	N 100/250	71-140	4.8-9.6	5x4	125/100	3000	189
1000	N 100/270-60	117-194	8.0-13.4	5x4	125/100	3550	270
1000	N 100/325	111-186	7.6-12.8	6x4	150/100	2950	310
1000	N 100/330	177-212	12.2-14.6	6x4	150/100	3000	290
1250	N 125/330	157-220	10.8-15.1	8x5	200/125	3000	259
1250	N 150/315	122-204	8.4-14.0	8x6	200/150	3000	246
1500	N 125/330	153-219	10.5-15.1	8x5	200/125	3000	259
1500	N 150/330	184-217	12.6-14.9	8x6	200/150	3000	321
2000	N 150/330	183-216	12.6-14.8	8x6	200/150	3000	321



## Horizontal Centrifugal Split-Case Pumps

Ebitt UL approved fire pumps are ideally developed and produced either for small flows or high flows through well-designed compact packages.

Ebitt SCP series double suction, Split-Case pumps are in-line designed, space saving, easy maintenance horizontal type. Our split-case pumps are heavy-duty designed with replaceable wear rings and sleeves. Bearings are mounted and can be replaced without opening pump case.

Each stuffing box is fitted with bronze gland and with a stuffing box extension to facilitate the packaging rings removal.

The pump construction is ductile iron body, bronze fitted with packaging. The shaft and sleeves are in AISI316 stainless steel and be supported by heavy-duty ball bearings and roller bearing.



## Split-Case

Pump Capacity US GPM	Pump Model	Rated Net Pressure Range		Flange Sizes		Approximate Speed RPM	Maximum Working Pressure PSI
		PSI	BAR	Inches	DN		
450	SCP 100/400	221-304	15.2-20.9	6x4	150/100	2900	400
500	SCP 100/250	112-167	7.7-11.5	6x4	150/100	3000	232
500	SCP 100/400	219-300	15.1-20.6	6x4	150/100	2900	400
750	SCP 100/250	106-167	7.3-11.5	6x4	150/100	3000	232
750	SCP 100/400	199-280	13.7-19.3	6x4	150/100	2900	400
1000	SCP 100/250	98-162	6.7-11.1	6x4	150/100	3000	232
1000	SCP 125/320	101-177	6.9-12.2	8x5	200/125	2900	232
1000	SCP 125/300	110-190	7.5-13.1	8x5	200/125	3000	290
1000	SCP 125/390	178-288	12.2-19.8	8x5	200/125	2900	348
1250	SCP 125/300	107-189	7.3-13.0	8x5	200/125	3000	290
1250	SCP 125/320	97-175	6.6-12.0	8x5	200/125	2900	232
1250	SCP 125/390	165-278	11.3-19.1	8x5	200/125	2900	348
1500	SCP 125/300	101-185	6.9-12.7	8x5	200/125	3000	290
1500	SCP 150/300	98-155	6.7-10.6	8x6	200/150	2900	232
1500	SCP 150/355	150-242	10.3-16.6	8x6	200/150	2900	320
2000	SCP 150/300	94-149	6.4-10.2	8x6	200/150	2900	232
2000	SCP 150/355	138-234	9.5-16.1	8x6	200/150	2900	320
2000	SCP4 150/630	124-222	8.5-15.3	10x6	250/150	1500	246
2000	SCP4 150/630 F	195-213	13.4-14.6	10x6	250/150	1500	290
2500	SCP4 150/630 F	188-211	12.9-14.5	10x6	250/150	1500	290
3000	SCP4 150/630 F	182-213	12.5-14.6	10x6	250/150	1500	290



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