







KIRLOSKAR BROTHERS LIMITED

A Kirloskar Group Company Established 1888











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1800 103 4443

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KIRLOSKAR PUMPS

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TECHNICAL SPECIFICATION

Head Range Upto 76 metres Discharge Range : Upto 49 lps Power Ratings 0.37 to 22 kW (0.5 to 30 HP)

300 to 440 Volts (Three Phase)

Voltage Range Insulation B Class (upto 7.5 HP) /

F Class (above 7.5 HP)

IP 44 / IP 55 Protection

MATERIAL OF CONSTRUCTION

GMC KDS Impeller Cast Iron / Noryl Cast Iron Cast Iron **Delivery Casing** Cast Iron Motor Body Cast Iron Cast Iron Pump Shaft Carbon Steel/ Carbon Steel Stainless Steel

Sealing Mechanical Seal Gland Packed

APPLICATIONS

- Air conditioning and refrigeration systems
- Cooling towers
- Clear water handling at high pressure in industries
- Irrigation in horticulture & agriculture
- Fire fighting systems

FEATURES

Flatter Efficiency Curve

Minimum variations in efficiency during entire operating range increases the utility of pumpset for variable conditions.

Wide Voltage Design

The motor is designed to withstand wide voltage fluctuations from 350 to 440 volts and reduces motor burning in case of low voltage.

Designed to Prevent Overloading

Lesser chances of motor burning as the motor does not get overloaded even if the pump is operated at a head lower than recommended, thus ensuring substantial cost savings due to low maintenance and breakdown.

Replaceable Wearing Parts

All wearing parts within the pumps are easily accessible and replaceable which facilitates ease of maintenance thereby extending the life of the pump.

Dynamically Balanced Rotating Parts

Minimum vibrations protect components from damages during the operations, thus ensuring consistent performance as concentricity is maintained.

CED – Cathodic Electro Deposition

CED is the latest coating technology for corrosion resistance with uniform coating. It provides 5 times more protection over conventional painting, resulting in longer life. All major CI parts of Kirloskar pumps coming in contact with the water are CED coated.

Automatic Air Release

Automatically releases air when the pump starts which ensures swifter and smoother operations, thus eliminating the necessity of operating air release cock and ensures swifter and smoother operations.

High Efficiency And Energy Saving Design

Innovative design manufactured at state-of-the-art plant, delivers optimum efficiency at lower energy consumption resulting in significant cost savings.

PER	FORMANCE CHART	FOR '	(DS+/	KDS+	+ / GM	C' SERIES	S, 2 PC	DLE, MO	ONOBL	OC PU	IMPS, /	AT RAT	ED VO	LTAGE	, 50 Hz	FREQ	UENCY	, THRE	EE PHA	SE A.C	C. POW	ER SU	PPLY
S.	Burne		wer		Size	Rated																	
No.	Pump Model	Rating		(mm)		Voltage (Volts)	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	40
		kW	HP	SUC.	DEL.	(voits)						DIS	SCHAF	RGE IN	LITRE	S PER	SECO	ND					
1	KDS0510*	0.37	0.5	50	40	415	3.4	2.6	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	GMC-112	0.75	1.02	50	50	415	6.9	5.5	3.9	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
3	GMC-116++*	0.75	1.02	50	40	415	5.4	5.0	4.6	4.2	3.6	3.0	2.0	-	-	-	-	-	-	-	-	-	-
4	GMC-123+*	0.75	1.02	32	25	415	-	-	4.0	3.6	3.2	2.7	2.2	1.6	0.9	-	-	-	-	-	-	-	-
5	GMC-128+*	0.75	1.02	40	40	415	-	-	-	-	1.9	1.8	1.7	1.5	1.4	1.1	0.8	0.4	-	-	-	-	-
6	GMC-134	0.75	1.02	25	25	415	-	-	-	-	-	1.7	1.6	1.5	1.4	1.2	1.0	0.9	0.7	0.4	-	-	-
7	GMC-1.514+	1.1	1.5	50	50	415	-	8.3	7.1	5.7	3.6	-	-	-	-	-	-	-	-	-	-	-	-
8	GMC-1.522++	1.1	1.5	50	40	415	-	6.3	5.9	5.5	5.1	4.5	3.9	3.1	1.8	-	-	-	-	-	-	-	-
9	GMC-1.525+	1.1	1.5	50	40	415	2.6	2.6	2.5	2.5	2.4	2.3	2.2	2.1	2.0	1.8	1.6	-	-	-	-	-	-
10	GMC-1.540	1.1	1.5	32	25	415	-	-	-	-	-	-	-	-	2.0	1.9	1.7	1.6	1.5	1.3	1.1	0.9	0.6
11	KDS-212+	1.5	2	80	80	415	14.1	12.4	10.5	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-
12	KDS-216++*	1.5	2	65	50	415	-	11.0	10.0	8.8	7.1	4.0	-	-	-	-	-	-	-	-	-	-	-
13	KDS-225++**	1.5	2	50	40	415	-	5.3	5.1	4.9	4.7	4.5	4.2	3.9	3.5	3.1	-	-	-	-	-	-	-
14	KDS-235+	1.5	2	50	40	415	-	-	4.1	4.1	4.1	3.7	3.5	3.4	3.2	3.0	2.5	2.2	1.8	1.3	0.5	-	-
15	KDS-314+*	2.2	3	80	80	415	19.0	18.0	16.4	14.5	12.0	-	-	-	-	-	-	-	-	-	-	-	-
16	KDS-318++**	2.2	3	80	65	415	-	13.4	12.6	11.7	10.7	9.2	7.5	-	-	-	-	-	-	-	-	-	-
17	KDS-325++**	2.2	3	65	50	415	-	-	9.2	8.8	8.4	7.9	7.4	7.0	6.4	5.8	4.9	-	-	-	-	-	-
18	KDS-335++*	2.2	3	50	40	415	-	-	-	5.7	4.9	4.8	4.7	4.6	4.4	4.2	4.0	3.8	3.6	3.2	2.7	2.0	-
19	KDS-515+*	3.7	5	100	100	400	32.8	31.0	28.0	24.2	19.0	12.5	-	-	-	-	-	-	-	-	-	-	-
20	KDS-520+*	3.7	5	80	80	400	24.0	23.0	22.0	20.8	19.5	17.9	16.0	14.0	11.0	-	_	_	_	-	_	-	-
21	KDS-527++**	3.7	5	80	65	400	-	-	-	-	-	14.3	13.5	12.5	11.6	10.3	8.7	6.4	-	-	-	-	-
22	KDS-538+**	3.7	5	65	50	400	_	-	-	-	_	_	_	8.5	8.4	8.3	8.1	7.8	7.6	7.1	6.5	5.8	-
23	KDS-822++*	5.5	7.5	100	100	400	-	-	-	27.3	25.6	24.0	22.2	20.1	17.6	14.5	-	-	-	-	-	-	-
24	KDS-830++*	5.5	7.5	80	65	400	_	_	_	_	_	19.0	18.2	17.3	16.4	15.4	14.2	12.7	11.1	_	_	-	_
25	KDS-837	5.5	7.5	65	65	400	-	-	-	-	-	-	-	-	-	12.6	12.5	12.2	11.8	11.1	10.3	9.0	-
26	KDS-1030++**	7.5	10	100	100	415	-	-	-	32.0	31.0	29.8	28.5	27.0	25.0	23.5	21.0	18.0	-	-	_	_	_
27	KDS-1040+*	7.5	10	80	65	415	-	-	23.5	23.0	22.6	22.2	21.6	20.9	20.3	19.5	18.7	17.9	17.0	15.7	14.6	13.4	9.6
28	KDS-1331+*	9.3	12.5	100	100	415	_	_	37.5	36.5	35.5	34.5	33.4	32.0	30.5	29.0	26.5	23.8	19.8	12.0	_	_	_
29	KDS-1537+*	11	15	100	100	415	-	39.0	38.5	38.0	37.2	36.5	35.3	34.5	33.0	31.6	30.0	28.0	25.0	22.0	17.5	_	-
30	KDS-2030+	15	20	125	125	415	-	-	-	-	-	49.0	47.0	45.0	42.0	39.0	35.0	30.0	21.0	_	_	_	_

PERFORMANCE CHART FOR 'KDS+ / KDS++ / GMC' SERIES, 2 POLE, MONOBLOC PUMPS, AT RATED VOLTAGE, 50 Hz FREQUENCY, THREE PHASE A.C. POWER SUPPLY															, 50 Hz	: FREQ	UENC'	Y, THRE	EE PHA	SE A.C	C. POW	ER SU	PPLY
S.	Dumm	Power Rating		Pipe Size (mm)		Rated	TOTAL HEAD IN METRES																
No.	Pump Model					Voltage	14	16	18	20	22	24	26	28	30	32	34	36	40	44	48	52	56
140.		kW	HP	SUC.	DEL.	(Volts)	DISCHARGE IN LITRES PER SECOND																
31	KDS-550++*	3.7	5	50	40	400	-	-	-	-	-	-	-	-	-	-	-	4.1	3.7	3.3	2.7	2.0	-
32	KDS-844++	5.5	7.5	65	65	400	-	-	-	-	-	-	-	10.3	9.9	9.5	9.0	8.4	7.1	4.7	-	-	-
33	KDS-852++	5.5	7.5	65	50	400	-	-	-	-	-	-	-	-	-	8.6	8.3	8.1	7.5	6.8	5.9	4.5	-
34	KDS-1050+*	7.5	10	65	65	415	-	-	-	-	-	-	-	12.5	12.2	12.0	11.7	11.4	10.7	9.6	8.1	6.0	-
35	KDS-1348+*	9.3	12.5	80	65	415	-	-	-	19.5	19.2	19.0	18.5	18.2	17.5	17.3	16.5	15.8	14.3	11.9	6.0	-	-
36	KDS-1555+*	11	15	80	65	415	-	-	-	-	19.9	19.8	19.6	19.5	19.4	19.2	18.8	18.5	17.4	16.0	14.5	12.2	-
37	KDS-2050+*	15	20	100	80	415	35.0	34.2	33.8	33.0	32.2	31.9	30.4	29.8	29.5	28.8	28.0	27.0	25.0	22.5	19.4	13.0	-

F	PERFORMANCE CI	HART F	OR 'KD	S+/KD	S++/(GMC' SEF	RIES, 2	POLE,	MONO	DBLOC	PUMP	S, AT I	RATED	VOLTA	\GE, 50	Hz FR	EQUE	NCY, T	HREE I	PHASE	A.C. P	OWER	SUPP	LY
	D	Power Rating		Pipe Size		Rated	TOTAL HEAD IN METRES																	
S.	Pump Model			(m	m)	Voltage	18	22	26	28	30	32	34	36	40	44	48	52	56	60	64	68	72	76
140.		kW	HP	SUC.	DEL.	(Volts)	DISCHARGE IN LITRES PER SECOND																	
38	KDS-1065+	7.5	10	65	50	415	-	-	-	-	-	-	-	-	7.8	7.4	6.9	6.4	5.8	5.1	4.3	3.0	-	-
39	KDS-1360+*	9.3	12.5	65	50	415	12.8	12.7	12.6	12.5	12.3	12.2	12	11.7	11.3	10.7	10	9	8.25	7	-	-	-	-
40	KDS-1570+*	11	15	65	50	415	-	-	-	13.4	13.2	13.0	12.8	12.7	12.5	11.7	11.5	10.7	9.7	9.0	8.0	6.5	-	-
41	KDS-1575+	11	15	65	50	415	-	-	-	-	-	-	-	-	-	-	-	8.1	7.7	7.4	6.9	6.4	5.8	4.9
42	KDS-2560+*	18.5	25	100	80	415	-	-	-	-	-	-	-	-	-	26	23.5	21	17	7	-	-	-	-
43	KDS-3068+*	22	30	100	80	415	-	-	-	-	-	-	-	-	-	-	28.0	26.5	24.5	21.5	17.5	10.0	-	-

Note:

* Marked pumps are ISI certified and ** Marked pumps are star rated.

GMC-128+ can also be offered with pipe size 50x40 mm, 50x40 mm. KDS-318+ can also be offered with pipe size 65x50 mm. All the pump set from 0.5 H.P To 1.5 H.P in mechanical seal arrangement .

2 H.P to 20 H.P gland pack arrangement except - KDS-212+ it is supplied only in mechanical seal arrangement.

Performance applicable to liquid of specific gravity 1 and viscosity as of water.