



Enriching Lives

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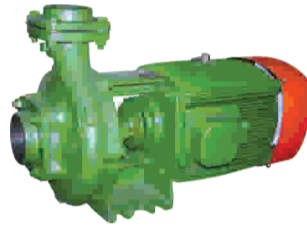
The 'power' To Save 'power'
Is In Your Power

AGRICULTURAL



KIRLOSKAR BROTHERS LIMITED

KIRLOSKAR
KAM HI FLOW
 New Agriculture Monobloc Pumpset



Features

- Can withstand wide voltage fluctuations from 300 – 440 Volts
- Conform to IS 9079 – 2002
- Suction lift upto 7.5 metres
- Top flat efficiency curve: minimum variation in efficiency in over entire operating range
- Models are with IP – 44 protections
- Class 'B' insulation till 5 HP (Class 'F' insulation above 5 HP)
- Dynamically balanced rotating parts to ensure minimum vibrations
- Easy Maintenance

Performance of KAM series single phase pumpsets

SR. No.	PUMP MODEL	POWER RATING		PIPE SIZE(mm)		FULL LOAD CURRENT	RATED VOLTAGE	HEAD IN METRES												
		kW	HP	SUC.	DEL.			4	5	6	7	8	9	10	11	12	13			
1	KAM-05	0.37	0.5	40	40	5.1	210								5	4.1	3.1	1.9		
2	KAM-11	0.75	1	80	80	6.5	210	15.5	14.1	12.1	10.5	8								
3	KAM-15	1.1	1.5	80	80	9.2	210								12	11	9.4	7		

PERFORMANCE DATA OF KIRLOSKAR AGRICULTURAL (KAM-SERIES) MONOBLOC PUMPS DECLARED AT 50 HZ/350 VOLTS ELECTRICAL SUPPLY) FINAL (16.07.08)

SR. No.	PUMP MODEL	POWER RATING		PIPE SIZE(mm)		TOTAL HEAD IN METRES																Rated Voltage (volts)	Current At Rated Voltage (350V)	Current At 300 Voltage	
		kW	HP	SUC.	DEL.	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36				
1	KAM0301	2.2	3.0	100	100	28.4	25.6	21.0	16.0	6.0													350	5.90	6.88
2	KAM0302	2.2	3.0	80	80			15.2	14.0	12.3	9.5												350	5.90	6.88
3	KAM0303	2.2	3.0	80	65				12.6	12.0	10.2	9.2	8.2	6.8	3.8								350	5.90	6.88
4	KAM0304	2.2	3.0	65	50						7.7	7.4	7.1	6.7	6.3	5.9	5.0	4.4					350	5.90	6.88
5	KAM0501	3.7	5.0	100	100	29.0	27.8	26.6	25.0	23.6	21.0	17.6	13.0										350	9.80	11.43
6	KAM0502	3.7	5.0	80	65					17.0	16.2	15.4	14.5	13.2	11.7	10.0	8.0						350	9.80	11.43
7	KAM0801	5.5	7.5	100	100				29.0	28.5	27.5	26.5	25.0	22.0	20.0	17.0	12.4						350	13.00	15.16
						18.0	20.0	24.0	28.0	30.0	32.0	36.0	38.0	40.0	44.0	48.0	52.0	54.0	58.0	60.0	62.0				
8	KAM0503	3.7	5.0	65	65				12.0	11.8	11.0	9.0											350	9.80	11.43
9	KAM0504	3.7	5.0	65	65				8.2	7.7	7.5	6.8	6.5	6.1	5.1	3.5							350	9.80	11.43
10	KAM0505	3.7	5.0	65	65				7.5	7.0	6.7	6.3	5.4	4.9	4.3								350	9.80	11.43
11	KAM0802	5.5	7.5	80	65				18.0	17.0	16.1	15.1	11.7	9.9	8.0								350	13.00	15.16
12	KAM0803	5.5	7.5	65	65				12.0	11.5	11.0	9.5	8.5	7.4	3.5								350	13.00	15.16
13	KAM1001	7.5	10.0	65	50							11.0	10.9	10.8	10.5	10.3	9.0	8.5	8.0	6.5			350	18.45	21.50
14	KAM1002	7.5	10.0	80	65				18.0	17.5	17.0	16.0	15.0	14.0	12.0	8.5							350	18.45	21.50
15	KAM1301	9.3	12.5	100	100	36.8	35.9	33.0	30.0	28.0	25.0	15.0											350	22.66	26.40
16	KAM1302	9.3	12.5	80	65					19.4	19.2	18.5	18.0	17.4	16.0	14.5	12.2	10.5					350	21.00	24.50
17	KAM1303	9.3	12.5	65	65							15.1	14.7	14.4	13.7	13.0	11.7	11.0	9.2	8.1	6.2		350	23.10	26.95
18	KAM1304	11.0	15.0	65	50							14.0	13.8	13.5	12.9	12.3	11.8	11.5	11.2	10.8	10.0		350	26.56	30.98
19	KAM1501	11.0	15.0	100	100	35.0	34.0	32.0	29.0	28.0	26.5	16.0	9.0										350	26.56	30.98
20	KAM1502	11.0	15.0	100	80				30.0	29.5	29.0	27.0	26.0	25.0									350	26.56	30.98
21	KAM1504	11.0	15.0	80	65							18.5	18.4	18.2	18.0	15.6	13.0	9.0					350	26.56	30.98

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

- Designed to prevent overloading
- CED coating cast iron components have longer life & rust free

Material of Construction

Impeller : Cast Iron
 Delivery Casing : Cast Iron
 Motor Body : Cast Iron
 Shaft : C40 Carbon Steel

Applications

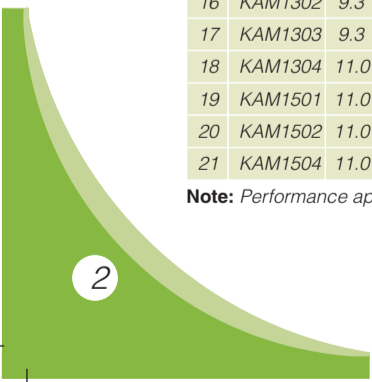
- Agriculture
- Conventional Irrigation

Range

Head : 6 – 62 metres
 Capacity : (36.8 – 3.5) LPS
 Power Rating : (2.2 – 11.0) kW
 (3.0 – 15.0) HP

Direction of Motor

Anti clockwise (when viewed from Suction end)



KIRLOSKAR
KS+
Monobloc Pumps



Features

- Can withstand wide voltage fluctuations from 300-440 Volts
- Suction lift upto 7.5 metres
- Top flat efficiency curve: minimum variation in efficiency in over entire operating range
- Efficiency at par with internationally available pumps - higher by upto 10 points than minimum required by Indian Standards specifications
- Models are with IP-44 protection. Models with IP-55 protection are also available on request
- Class 'B' insulation
- Dynamically balanced rotating parts to ensure minimum vibrations during running
- Replaceable wearing parts and hence longer life
- Designed to prevent overloading and motor burning
- Designed for automatic air release during priming

Material of Construction

Standard Supply

- Impeller : Cast Iron
- Delivery Casing : Cast Iron
- Motor Body : Cast Iron
- Shaft : Carbon Steel
- Shaft Sleeve : Bronze

Optional Supply

- Impeller : Bronze
- Shaft : Stainless Steel
- Shaft Sleeve : Chrome Steel

Applications

- Gardening and irrigation
- Lawn sprinklers

Range

- Head : 5 - 22 metres
- Capacity : 72.5 - 9.3 LPS
- Power Rating Single Phase : 2.2 kW - 7.5 kW (3.0 HP - 10.0 HP)

Approximate performance

PUMP MODEL	POWER RATING		PIPE SIZE (mm)		FULL LOAD CURRENT (in AMPS)	RATED VOLTAGE (VOLTS)	TOTAL HEADS IN METRES									
	kW	HP	SUC	DEL			5	6	8	10	12	14	16	18	20	22
DISCHARGE IN LITRES PER SECOND																
KS-316+	2.2	3.0	65	50	4.9	415					13.4	11.6	9.3			
KS-513+	3.7	5.0	100	100	8.2	415		34.0	30.9	27.0	22.0					
KS-516+	3.7	5.0	80	65	8.2	415					23.7	20.8	17.5	13.2		
KS-810+	5.5	7.5	150	150	11.9	400	63.0	63.5	53.0	41.0						
KS-817+	5.5	7.5	100	100	11.9	400				34.4	31.8	29.0	25.3	19.2		
KS-823+	5.5	7.5	100	80	11.9	400						27.3	25.0	22.2	18.8	14.5
KS-1012+	7.5	10.0	150	150	16.8	400		72.5	67.0	59.5	49.5	30.0				
KS-1022+	7.5	10.0	100	100	16.8	400						36.0	33.0	29.0	24.2	17.5

Extended shaft version is also available on request
 Above pumpsets can be supplied with stuffing box arrangement for gland packed or mechanical seal against the requirement.
 All pumpsets except KS-810+ and KS-1012+ are ISI marked
Note: Performance applicable to liquid of specific gravity 1 and viscosity as of water.

KIRLOSKAR
KDS+
Single Phase Monobloc Pumps



- Designed for automatic air release during priming
- CED coating cast iron components long life & rust free
- More hygienic & potable for drinking water.

Material of Construction
Standard Supply

Impeller : Cast Iron
Delivery Casing : Cast Iron
Motor Body : Cast Iron
Shaft : Carbon Steel
Shaft Sleeve : Bronze

Applications

- Gardening and small farm irrigation
- Agri for clear water handling
- Water supply for Agri, use in Apartments, Buildings and Hotels

Range

Head : 6-50 metres
Capacity : 28-0.4 LPS
Power Rating : 0.37 kW-3.7 kW

Features

- Can withstand wide voltage fluctuation : From 180- 240 Volts
- Suction lift upto 7.5 metres
- Top flat efficiency curve : minimum variation in efficiency in entire operating range
- Efficiency at par with internationally available pumps- higher upto 10 points than minimum required by Indian Standards specifications
- Models are with IP-44 protection
- Class 'B' insulation
- Designed to prevent overloading and motor burning
- Dynamically balanced rotating parts ensure minimum vibrations
- Replaceable wearing parts and hence longer life

Approximate performance

PUMP MODEL	POWER RATING		PIPE SIZE (mm)		FULL LOAD CURRENT (in AMPS)	RATED VOLTAGE (VOLTS)	TOTAL HEADS IN METRES																							
	kW	HP	SUC	DEL			6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38							
DISCHARGE IN LITRES PER SECOND																														
KDS-0510	0.37	0.5	50	40	3.4	210	3.37	2.62	0.94																					
KDS-112*	0.75	1.0	50	50	6.5	210	6.9	5.5	3.9	2.0																				
KDS-116*++	0.75	1.0	50	40	6.5	210	5.35	5.0	4.63	4.2	3.62	3.0	2.0																	
KDS-123*	0.75	12.0	32	25	6.5	210			4.0	3.6	3.2	2.65	2.2	1.6	0.9															
KDS-128*+	0.75	1.0	50	40	6.5	210					1.9	1.82	1.72	1.57	1.37	1.1	0.77	0.4												
KDS-134*	0.75	1.0	25	25	6.5	210						1.66	1.59	1.5	1.38	1.24	1.06	0.87	0.66	0.4										
KDS-1.514++	1.1	1.5	50	50	8.8	210		8.5	7.25	5.75	3.6																			
KDS-1.522+	1.1	1.5	50	40	8.8	210		6.35	5.95	5.55	5.1	4.5	3.9	3.1	1.8															
KDS-1.525+	1.1	1.5	50	40	8.8	210	2.6	2.55	2.48	2.4	2.34	2.22	2.12	1.97	1.82	1.6	1.32													
KDS-1.540	1.1	1.5	32	25	8.8	210										2.0	1.85	1.75	1.6	1.45	1.3	1.1	0.9	0.65						
KDS-212+	1.5	2.0	80	80	9.5	230	14.1	12.4	10.5	7.5																				
KDS-216++	1.5	2.0	65	50	9.5	230		11.0	10.0	8.8	7.15	4.0																		
KDS-220+	1.5	2.0	65	50	9.5	230			6.75	6.3	5.8	5.25	4.5																	
KDS-225++	1.5	2.0	50	40	9.5	230		5.3	5.18	4.9	4.75	4.5	4.25	3.9	3.56	3.1	2.25													
KDS-235	1.5	2.0	50	40	9.5	230	4.2	4.1	4.05	4	3.9	3.8	3.7	3.6	3.5	3.3	3.1	2.75	2.25	2	1.5									
KDS-314+	2.2	3.0	80	80	14.0	230	19.4	18.0	16.2	14.0	10.4																			
KDS-318++	2.2	3.0	80	65	14.0	230		13.4	12.6	11.7	10.6	9.2	7.5																	
KDS-325++	2.2	3.0	65	50	14.0	230			9.2	8.8	8.4	7.9	7.4	7.0	6.4	5.8	4.9													
KDS-335++	2.2	3.0	50	40	14.0	230			5.75	5.6	5.4	5.2	5.0	4.8	4.5	4.25	3.95	3.6	3.0	2.3										
KDS-515+	3.7	5.0	100	100	23.0	230			28.0	24.2	19.2	12.6																		
KDS-520+	3.7	5.0	80	80	23.0	230	24.0	23.0	22.0	20.8	19.5	17.9	16.0	14.0	11.0															
KDS-527++	3.7	5.0	80	65	23.0	230							14.3	13.5	12.5	11.6	10.3	8.7	6.4											
KDS-538+	3.7	5.0	65	50	23.0	230	8.3	8.2	8.0	7.7	7.0	6.3	5.1	4.0	1.75															
KDS-550++	3.7	5.0	50	40	23.0	230										3.9	3.62	3.3	2.9	2.45	1.9	1.3								

* These Models are also available in "LV" versions with Voltage Range 120V-220V & Current will be different.

Note: Performance applicable to liquid of specific gravity 1 and viscosity as of water.
KDS-128+ can also be supplied with pipe size 25x25 mm and 40x40 mm.
All pumpsets are ISI marked except KDS-112, KDS-116, KDS-128



Product Catalogue

KIRLOSKAR KDS LV



KDS LV (Low Voltage)

Applications

Gardening, farm irrigation, sprinkles, etc.

Attributes

- Designed specially for low voltage.
- TEFC construction.
- 'B' Class of insulation.
- Designed for automatic air release during priming

Specifications

Head range : upto 35 meters
 Discharge range : upto 14 lps
 Power rating : 0.75 - 1.5 kW (1.0 - 2.0 HP) (1 Ph)
 Voltage range : 130-240V

Note

All the KDS Std. 1H.P., 1.5H.P. & 2H.P. pumps and their performances are also there in KDS LV with following electrical data.

	Rated Voltage(V)	Full Load Current (AMPS)
1.0 H.P.	160V	7.5 A
1.5 H.P.	160V	9.54A

Approximate performance

PUMP MODEL	POWER RATING		PIPE SIZE (mm)		FULL LOAD CURRENT (in AMPS)		RATED VOLTAGE (VOLTS)	TOTAL HEADS IN METRES																				
	kW	HP	SUC	DEL	LV	P series		6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38				
DISCHARGE IN LITRES PER SECOND																												
KDS-112*	0.75	1.0	50	50	7.5	6.5	210	6.9	5.5	3.9	2.0																	
KDS-116**	0.75	1.0	50	40	7.5	6.5	210	5.35	5.0	4.63	4.2	3.62	3.0	2.0														
KDS-123*	0.75	12.0	32	25	7.5	6.5	210			4.0	3.6	3.2	2.65	2.2	1.6	0.9												
KDS-128**	0.75	1.0	50	40	7.5	6.5	210					1.9	1.82	1.72	1.57	1.37	1.1	0.77	0.4									
KDS-134*	0.75	1.0	25	25	7.5	6.5	210						1.66	1.59	1.5	1.38	1.24	1.06	0.87	0.66	0.4							
KDS-1.514**	1.1	1.5	50	50	9.5	8.8	210		8.5	7.25	5.75	3.6																
KDS-1.522+	1.1	1.5	50	40	9.5	8.8	210		6.35	5.95	5.55	5.1	4.5	3.9	3.1	1.8												
KDS-1.525+	1.1	1.5	50	40	9.5	8.8	210	2.6	2.55	2.48	2.4	2.34	2.22	2.12	1.97	1.82	1.6	1.32										
KDS-1.540	1.1	1.5	32	25	9.5	8.8	210								2.0	1.85	1.75	1.6	1.45	1.3	1.1	0.9	0.65					
KDS-212+	1.5	2.0	80	80	10.55	9.8	230	14.1	12.4	10.5	7.5																	
KDS-216**	1.5	2.0	65	50	10.55	9.8	230		11.0	10.0	8.8	7.15	4.0															
KDS-220+	1.5	2.0	65	50	10.55	9.8	230			6.75	6.3	5.8	5.25	4.5														
KDS-225**	1.5	2.0	50	40	10.55	9.8	230		5.3	5.18	4.9	4.75	4.5	4.25	3.9	3.56	3.1	2.25										
KDS-235	1.5	2.0	50	40	10.55	9.8	230	4.2	4.1	4.05	4.0	3.9	3.8	3.7	3.6	3.5	3.3	3.1	2.75	2.25	2.0	1.5						
KDS-113LP	0.75	1.0	50	50	-	6.5	240		6.5	5.3	3.5	1.5																
KDS-113LPLV	0.75	1.0	50	50	7.5	-	160	7.5	6.8	6.0	4.5	2.2																
KDS-1.516LP	1.5	2.0	65	50	-	8.8	240			8.5	7.5	5.2	2.6															

KDS LV (P Series)

Applications

Gardening, farm irrigation, sprinkles, etc.

Attributes

- Designed specially for low voltage.
- TEFC construction.
- 'B' Class of insulation.
- Designed for automatic air release during priming.
- It can run with two phase supply also.

Specifications

Head range : upto 35 meters
 Discharge range : upto 14 lps
 Power rating : 0.75 - 1.5 kW (1.0 - 2.0) HP
 Voltage range : 240-400V

Note

All the KDS Std. models of 1 H.P. to 2 H.P. are there with following electrical data.

	Rated Voltage	Full Load Current
1.0 H.P.	240V	6.5 A

Product Catalogue

KIRLOSKAR

KS 6/7/8

Submersible Pumps

Features

- Huge savings in electrical consumption
- Capability to withstand wide voltage fluctuations
- Operates equally well with Genset, great help during power cuts
- Non-overloading power characteristics protect the motor
- Water lubricated bearings for years of service
- Design of non-returnable valve reduces friction
- Minimum possible diameters for easier setting into the borewell
- Dynamically balanced rotating parts
- Nitril rubber bushes ensure long life of pump even in muddy water
- **CED coating cast iron components long life & rust free**



Material of Construction

Parts	KS 6"/7"/8"	KS 6"/7"/8"
Impeller	Bronze Gr LTB2 / 20% Glass Filled Noryl	Bronze Gr LTB2
Diffusets	20% Glass Filled Noryl	-
Pump Bowl	-	High Graded Cast Iron
Motor Casing	Stainless Steel	Stainless Steel
Pump Shaft	Stainless Steel	Stainless Steel
Motor Shaft	Stainless Steel	Stainless Steel

Applications

- Continuous water supply for farming application & irrigation projects
- Fire fighting application

Range

Head	: 5-306 metres
Discharge	: 2400-60 LPM
Motor Rating	: 2.2 kW- 33 kW (3.0 - 45.0 HP)
Borewell Size	: 150mm (6") 200mm (8")
Voltage Range	: 200 V - 440 V

Cable Selection Chart for 415 Volts, 50 Hz, 3 Phase Motors (Considering Ambient Temp. 50° & 3% Voltage Drop)

MOTOR RATING		FULL LOAD CURRENT (AMPS)	CABLE SIZE					
kW	HP		LENGTH OF CABLE IN METRES					
2.2	3.0	6.3	1.5	2.5	4.0	6.0	10.0	16.0
			87	145	230	-	-	-
3.7	5.0	9.3	63	100	160	238	-	-
4.5	6.0	11.8	47	78	125	185	300	-
5.5	7.5	14.5	41	68	107	158	262	-
7.5	10.0	18.0	-	51	80	120	200	297
9.3	12.5	22.5	-	-	65	97	160	253
11.0	15.0	26.0	-	-	56	84	137	216
12.9	17.5	32.5	-	-	-	-	110	175
15.0	20.0	36.5	-	-	-	-	98	155
18.5	25.0	39.0	-	-	-	-	93	150
22.0	30.0	45.0	-	-	-	-	81	130
25.7	35	52.0	-	-	-	-	70	112

Cable Size Selection for 3 Ø 150 MM Submersibles

Motor HP	Starting	Cable size recommended for upto 45 M Cable length	Cable size recommended for upto 70 M Cable length	Cable size recommended for upto 95 M Cable length
35.0	S/D	2x3x4mm ²	2x3x6mm ²	2x3x10mm ²
30.0	S/D	2x3x4mm ²	2x3x6mm ²	2x3x10mm ²
25.0	S/D	2x3x4mm ²	2x3x6mm ²	2x3x10mm ²
20.0	S/D	2x3x4mm ²	2x3x6mm ²	2x3x10mm ²
17.5	S/D	2x3x2.5mm ²	2x3x4mm ²	2x3x6mm ²
15.0	S/D	2x3x2.5mm ²	2x3x4mm ²	2x3x6mm ²
12.5	S/D	2x3x2.5mm ²	2x3x4mm ²	2x3x6mm ²
10.0	S/D	2x3x2.5mm ²	2x3x4mm ²	2x3x6mm ²
7.5	DOL	1x3x2.5mm ²	1x3x4mm ²	1x3x6mm ²
6.0	DOL	1x3x2.5mm ²	1x3x2.5mm ²	1x3x4mm ²
5.0	DOL	1x3x1.5mm ²	1x3x2.5mm ²	1x3x2.5mm ²
4.0	DOL	1x3x1.5mm ²	1x3x2.5mm ²	1x3x2.5mm ²
3.0	DOL	2x3x1.5mm ²	1x3x2.5mm ²	1x3x2.5mm ²

PERFORMANCE-150mm (6") Submersible

KS6 A Series PIPE SIZE: 50mm

PUMP MODEL	POWER RATING		DISCHARGE IN LPM				
	kW	HP	60	120	160	180	240
TOTAL HEAD IN METRES							
KS6A-0307	2.2	3.0	55	49	41	36	14
KS6A-0410	3.0	4.0	78	69	58	50	20
KS6A-0512	3.7	5.0	94	84	69	60	24
KS6A-0614	4.5	6.0	114	100	85	74	31
KS6A-0818	5.5	7.5	146	129	110	98	40
KS6A-1024	7.5	10.0	195	172	147	131	53

KS6 B Series PIPE SIZE: 50mm

PUMP MODEL	POWER RATING		DISCHARGE IN LPM					
	kW	HP	60	120	160	180	240	270
TOTAL HEAD IN METRES								
KS6B-0305	2.2	3.0	47	42	37	35	20	10
KS6B-0306	2.2	3.0	58	52	45	41	24	11
KS6B-0508	3.7	5.0	76	69	60	54	31	15
KS6B-0509	3.7	5.0	85	77	68	61	35	17
KS6B-0510	3.7	5.0	95	86	75	68	39	19
KS6B-0511	3.7	5.0	104	94	83	75	42	20
KS6B-0612	4.5	6.0	118	107	94	86	52	27
KS6B-0813	5.5	7.5	128	116	100	93	56	31
KS6B-0814	5.5	7.5	138	124	108	99	59	32
KS6B-0815	5.5	7.5	148	134	118	108	65	36
KS6B-1016	7.5	10.0	160	146	128	118	71	39
KS6B-1020	7.5	10.0	200	183	160	148	93	52
KS6B-1324	9.3	12.5	238	219	195	180	118	72
KS6B-1528	11.0	15.0	286	256	225	208	130	80
KS6B-1530	11.0	15.0	306	274	241	223	140	86
KS6B-0308N	2.2	3.0	76	69	60	54	31	15

KS6 C Series PIPE SIZE: 50mm

PUMP MODEL	POWER RATING		DISCHARGE IN LPM							
	kW	HP	120	180	240	300	360	420	480	510
TOTAL HEAD IN METRES										
KS6C-0404	3.0	4.0	39	37	34	31	26	20	13	9
KS6C-0504	3.7	5.0	39	37	34	31	26	20	13	9
KS6C-0505	3.7	5.0	49	46	43	38	32	25	17	12
KS6C-0606	4.5	6.0	61	58	53	48	41	33	23	17
KS6C-0807	5.5	7.5	72	68	63	56	49	39	27	20
KS6C-1009	7.5	10.0	94	89	82	74	63	50	35	26
KS6C-1010	7.5	10.0	104	98	91	83	73	60	43	32
KS6C-1312	9.3	12.5	126	119	110	100	87	70	49	38
KS6C-1515	11.0	15.0	157	148	137	122	105	86	60	46
KS6C-1817	13.0	17.5	178	169	155	139	120	97	68	53
KS6C-2020	15.0	20.0	210	198	182	164	142	114	80	61

KS6 D Series PIPE SIZE: 65mm

PUMP MODEL	POWER RATING		DISCHARGE IN LPM					
	kW	HP	120	240	360	480	600	650
TOTAL HEAD IN METRES								
KS6D-0303N	2.2	3.0	31	28.5	24	17.5	9	5
KS6D-0404N	3.0	4.0	42	38.5	33	24	13	9.5
KS6D-0606N	4.5	6.0	58.5	54	45.5	32.5	15.5	7.5

KS6 D Series PIPE SIZE: 65mm

PUMP MODEL	POWER RATING		DISCHARGE IN LPM						
	kW	HP	120	240	360	420	480	600	690
TOTAL HEAD IN METRES									
KS6D-0302	2.2	3.0	21	21	19	18	16	11	6
KS6D-0504	3.7	5.0	43	42	38	36	33	23	12
KS6D-0605	4.5	6.0	54	53	49	45	41	29	16
KS6D-0806	5.5	7.5	66	64	59	56	51	37	20
KS6D-1008	7.5	10.0	89	86	80	75	68	48	28
KS6D-1310	9.3	12.5	112	108	101	94	87	63	36
KS6D-1512	11.0	15.0	133	128	120	111	102	73	43
KS6D-1814	13.0	17.5	155	151	140	131	120	86	48
KS6D-2016	15.0	20.0	177	172	160	150	137	98	55

KS6 E Series PIPE SIZE: 65mm

PUMP MODEL	POWER RATING		DISCHARGE IN LPM						
	kW	HP	120	180	240	300	360	420	480
TOTAL HEAD IN METRES									
KS6E-0504	3.7	5.0	44	41	38	34	29	21	9
KS6E-0505	3.7	5.0	55	52	40	43	36	26	11
KS6E-0606	4.5	6.0	68	64	59	54	45	32	13
KS6E-0807	5.5	7.5	80	75	70	63	54	42	21
KS6E-0808	5.5	7.5	91	86	80	72	62	46	21
KS6E-1010	7.5	10.0	117	110	102	92	78	58	30
KS6E-1313	9.3	12.5	154	145	134	121	104	79	42
KS6E-1515	11.0	15.0	178	168	156	142	121	91	47
KS6E-1818	13.0	17.5	212	201	186	169	143	106	58
KS6E-2020	15.0	20.0	236	221	205	187	158	122	64

KS6 F Series PIPE SIZE: 80mm

PUMP MODEL	POWER RATING		DISCHARGE IN LPM							
	kW	HP	240	360	480	600	720	840	960	1080
TOTAL HEAD IN METRES										
KS6F-0302	2.2	3.0	20	18	16	14	11	9	7	5
KS6F-0503	3.7	5.0	30	27	24	21	18	14	11	6
KS6F-0604	4.5	6.0	39	36	32	29	24	20	15	9
KS6F-0804	5.5	7.5	41	38	34	31	26	21	16	11
KS6F-1006	7.5	10.0	63	57	51	45	38	33	24	16
KS6F-1308	9.3	12.5	85	78	70	61	53	44	34	24
KS6F-1509	11.0	15.0	96	88	79	70	60	49	38	27
KS6F-1811	13.0	17.5	118	108	91	86	73	61	46	32
KS6F-2013	15.0	20.0	139	127	114	101	86	70	54	37

KS6 G Series PIPE SIZE: 100mm

PUMP MODEL	POWER RATING		DISCHARGE IN LPM					
	kW	HP	240	480	720	840	960	1200
TOTAL HEAD IN METRES								
KS6G-0502	3.7	5.0	22	19	17	15	13	7
KS6G-0603	4.5	6.0	35	31	26	24	21	12
KS6G-0804	5.5	7.5	47	4	35	32	28	16
KS6G-1005	7.5	10.0	60	52	45	41	36	21
KS6G-1306	9.3	12.5	72	63	54	49	43	25
KS6G-1507	11.0	15.0	85	74	64	58	51	30
KS6G-1808	13.0	17.5	96	84	72	66	58	35
KS6G-2009	15.0	20.0	108	95	82	74	65	38

Performance-175 mm (7") Submersible

KS7 A Series

PIPE SIZE: 100mm

PUMP MODEL	MODEL RATING		DISCHARGE IN LITRES PER MINUTE					
	kW	HP	360	600	840	1200	1440	1680
			TOTAL HEAD IN METRES					
KS7A-0401	4.0	3.0	15	13	12	10	8	5
KS7A-0802	7.5	5.5	30	26	24	20	16	10
KS7A-0803	7.5	5.5	40	35	32	27	21	13
KS7A-1003	10.0	7.5	45	39	36	30	24	15
KS7A-1304	12.5	9.3	56	49	45	38	30	19
KS7A-1505	15.0	11.1	71	61	56	47	38	24
KS7A-1806	17.5	12.5	85	73	65	56	45	28
KS7A-2007	20.0	15.0	99	86	79	66	53	33

Performance chart for KS 7P Pumps

PIPE SIZE: 100 mm

PUMP MODEL	POWER RATING		FULL LOAD CURRENT (AMPS)	RATED VOLTAGE (V)	DISCHARGE IN LITRES PER MINUTE							
	kW	HP			240	480	720	960	1200	1440	1680	1920
					TOTAL HEAD IN METRES							
KS7P-0602	4.5	6.0	11.8	415	25	23	19	18	16	13	7	3
KS7P-0802	5.5	7.5	14.5	415	28	26	24	22	18	15	13	3
KS7P-0803	5.5	7.5	14.5	415	31	27	25	23	19	16	8	3
KS7P-1003	7.5	10.0	18.0	415	40	37	34	30	25	21	15	3
KS7P-1004	7.5	10.0	18.0	415	40	36	34	31	27	23	13	3

Performance chart for KS8 A Pumps

PIPE SIZE: 100 mm

PUMP MODEL	MODEL RATING		DISCHARGE IN LITRES PER MINUTE							
	kW	HP	300	600	900	1200	1350	1500	1650	1800
			TOTAL HEAD IN METRES							
KS8A-0602	4.5	6.0	24	22	20	17	14	11	-	-
KS8A-0801	5.5	7.5	23	22	21	19	18	16	14	11
KS8A-1002	7.5	10.0	35	33	30	26	24	21	18	14
KS8A-1003	7.5	10.0	36	34	30	25	22	17	10	-
KS8A-1302	9.3	12.5	41	39	36	32	29	26	22	16
KS8A-1502	11.0	15.0	46	44	42	38	35	31	26	21
KS8A-1803	13.0	17.5	53	50	46	40	36	31	25	18
KS8A-2003	15.0	20.0	59	57	53	47	43	38	31	24
KS8A-2004	15.0	20.0	70	66	60	52	48	42	36	28
* Above models can be made available with both 8" and 6" Motors.										
KS8A-2504	18.5	25.0	83	79	71	61	55	46	36	26
KS8A-3004	22.0	30.0	94	88	82	72	65	58	48	37
KS8A-3505	25.7	35.0	118	110	102	90	82	73	61	48
* Above models can be made available with 8" Motors only.										

Performance chart for KS8B Pumps

PIPE SIZE: 125mm

PUMP MODEL	MODEL RATING		DISCHARGE IN LITRES PER MINUTE							
	kW	HP	300	600	900	1200	1500	1800	2100	2400
			TOTAL HEAD IN METRES							
KS8B-1002	7.5	10.0	30	27	24	21	18	14	9	-
KS8B-1302	9.3	12.5	38	36	33	29	25	21	17	12
KS8B-1502	11.0	15.0	40	38	36	34	31	28	24	19
KS8B-1802	13.0	17.5	42	41	38	35	32	29	26	23
KS8B-2003	15.0	20.0	57	54	49	44	38	31.5	25	17
* Above models can be made available with both 8" and 6" Motors.										
KS8B-2502	18.5	25.0	53	51	48	45	42	39	35	30
KS8B-3503	25.7	35.0	76	74	71	66	61	56	51	45
KS8B-4504	33.0	45.0	99	97	93	86	80	73	67	59
KS8B-4505	33.0	45.0	105	101	95	88	80	73	65	56
* Above models can be made available with 8" Motors only.										

Performance chart for KS8P Pumps

PIPE SIZE: 100 mm

PUMP MODEL	POWER RATING		FULL LOAD CURRENT (AMPS)	RATED VOLTAGE (V)	DISCHARGE IN LITRES PER MINUTE								
	kW	HP			240	480	720	960	1200	1440	1680	1920	2160
					TOTAL HEAD IN METRES								
KS8P-0601	4.5	6.0	11.8	415	19	19	17	17	15	13	11	9	5
KS8P-0801	5.5	7.5	14.5	415	20	19	19	18	17	16	13	11	7
KS8P-0802	5.5	7.5	14.5	415	28	26	24	22	19	16	11	7	-
KS8P-1002	7.5	10.0	19.5	415	37	34	32	30	26	23	18	13	6
KS8P-1003	7.5	10.0	19.5	415	42	39	36	32	29	24	17	11	-
KS8P-1302	9.3	12.5	25.0	415	38	37	34	33	30	26	22	18	9
KS8P-1303	9.3	12.5	25.0	415	42	39	37	34	31	23	15	10	4
KS8P-1304	9.3	12.5	25.0	415	55	50	46	42	37	30	22	12	-
KS8P-1502	11.0	15.0	26.0	415	40	39	37	35	34	31	26	21	13
KS8P-1503	11.0	15.0	26.0	415	51	49	47	46	41	36	30	20	10
KS8P-1504	11.0	15.0	26.0	415	56	52	48	43	38	32	22	14	-
KS8P-1803	13.0	17.5	32.5	415	57	56	51	50	45	39	33	27	14
KS8P-1804	13.0	17.5	32.5	415	68	63	59	53	48	42	33	22	8
KS8P-2003	15.0	20.0	36.0	415	62	59	56	53	50	45	40	32	20
KS8P-2004	15.0	20.0	36.5	415	74	68	63	59	52	46	36	26	12
KS8P-2503	18.5	25.0	39.0	415	64	61	59	56	53	49	43	35	24
KS8P-2504	18.5	25.0	39.0	415	76	74	68	66	60	52	44	36	18
KS8P-2505	18.5	25.0	39.0	415	93	85	79	74	65	58	45	33	15

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



High Head Submersible Pump

Features

Pump

- Higher head per stage resulting in achieving same head with less no of stages
- Stainless Steel pump internals
- Better surface finish hence better efficiency and consistent performance.
- Lesser weight and lesser height resulting into ease in installation and transportation
- Better life in sandy water application
- Better life in acidic water
- Rust free water
- Aesthetically appealing
- Loading on pipes improves
- **CED coating cast iron components long life & rust free**

Motor

- Withstand wide voltage fluctuations from 200 volts to 440 volts with marginal variation in head and discharge
- Even at low voltage, pump delivers water
- For longer life Teflon Carbon Thrust bearing



Material of Construction

- Impeller : Stainless Steel
- Diffuser : Stainless Steel
- Diffuser Casing : Stainless Steel
- Shaft : Stainless Steel
- NRV : CI
- Discharge outlet : CI
- Suction Housing : CI
- Bearing Sleeve : Hard Chrome Stainless Steel
- Bearing Bush : Rubber

Use from (Higher Depth)

- Water supply for Industrial, Housing Complex, Hotels, Hospitals, Commercial Complex, Cinema Halls, Multiplex, Community Supplies, Building & Construction application
- Continuous water supply for farming application & irrigation projects
- Fire fighting application

Range-

- Head : 1 - 447 metres
- Discharge : 740-30 LPM
- Motor Rating : 2.2 kW-15 kW (3.0 HP-20.0 HP)
- Borewell Size : 150 mm (6")
- Voltage Range : 200 V-440 V

STARTING METHOD / CABLE CONNECTION

150mm (6")	DOL Start / Single Cable	Star Delta Start / Double Cable
Standard Model	Upto 7.5 HP	10 HP & above

Cable Selection Chart for 415 Volts, 50 Hz, 3 Phase Motors (Considering Ambient Temp. 50° & 3% Voltage Drop)

MOTOR RATING		FULL LOAD CURRENT (AMPS)	CABLE SIZE					
kW	HP		LENGTH OF CABLE IN METRES					
2.2	3.0	6.3	1.5	2.5	4.0	6.0	10.0	16.0
3.0	4.0	7.9	87	145	230	-	-	-
3.7	5.0	9.3	69	115	185	-	-	-
4.5	6.0	11.8	63	100	160	238	-	-
5.5	7.5	14.5	47	78	125	185	300	-
7.5	10.0	18.0	41	68	107	158	262	-
9.3	12.5	22.5	-	51	80	120	200	297
11.0	15.0	26.0	-	-	65	97	160	253
13.0	17.5	32.5	-	-	56	84	137	216
15.0	20.0	36.5	-	-	-	-	110	175
							98	155

Approximate Performance

50HH Series

PIPE SIZE: 50mm

PUMP MODEL	POWER RATING		RATED CURRENT (AMPS)	DISCHARGE IN LITRES PER MINUTE										
	kW	HP		30	50	75	80	90	95	105	120	125	130	135
TOTAL HEAD IN METRES														
50HH306	2.2	3.0	6.3	89	85	79	76	68	58	51	38	30	27	11
50HH408	3.0	4.0	7.9	118	113	105	101	90	77	68	50	40	36	14
50HH510	3.7	5.0	9.3	148	141	131	126	113	96	85	63	50	45	18
50HH612	4.5	6.0	11.8	177	163	157	151	135	116	102	75	60	57	21
50HH815	5.5	7.5	14.5	222	212	197	189	169	145	127	94	75	67	27
50HH1020	7.5	10.0	18.0	296	283	263	253	226	193	170	126	100	90	36
50HH1325	9.3	12.5	22.5	370	354	329	316	283	241	212	158	125	112	45
50HH1530	11.0	15.0	26.0	444	425	395	379	340	289	254	190	150	134	54

60HH Series

PIPE SIZE: 50mm

PUMP MODEL	POWER RATING		RATED CURRENT (AMPS)	DISCHARGE IN LITRES PER MINUTE									
	kW	HP		60	80	100	140	160	180	200	220	240	260
TOTAL HEAD IN METRES													
60HH304	2.2	3.0	6.3	61.6	58.4	55.2	49.6	44	37.6	29.6	24	16	5.6
60HH305	2.2	3.0	6.3	77	73	69	62	55	47	37	30	20	7
60HH407	3.0	4.0	7.9	106	102	96	94	77	66	52	42	28	9
60HH508	3.7	5.0	9.3	122	117	111	107	88	76	60	48	32	10
60HH609	4.5	6.0	11.8	137.3	131.6	124.9	120.4	99	85.5	67.5	54	36	11.3
60HH610	4.5	6.0	11.8	154	147	139	134	110	95	75	60	40	12
60HH811	5.5	7.5	14.5	169.4	161.7	152.9	147.4	121	104.5	82.5	66	44	13.2
60HH812	5.5	7.5	14.5	185	176	166	160	132	123	89	72	48	15
60HH1013	7.5	10.0	18.0	200.4	190.7	179.8	173.3	143	133	96.4	78	52	16.3
60HH1016	7.5	10.0	18.0	247	235	221	214	176	152	119	96	64	19
60HH1319	9.3	12.5	22.5	290	277	262	254	209	178	140	114	76	25
60HH1524	11.0	15.0	26.0	370	352	333	320	264	226	179	144	96	30
60HH1829	13.0	17.5	32.5	447	425	402	387	319	273	216	174	116	36

80HH Series

PIPE SIZE: 50mm

PUMP MODEL	POWER RATING		RATED CURRENT (AMPS)	DISCHARGE IN LITRES PER MINUTE										
	kW	HP		90	105	125	145	165	185	205	225	245	265	285
TOTAL HEAD IN METRES														
80HH304	2.2	3.0	6.3	62	59	56	52	49	45	39	33	25	18	7
80HH405	3.0	4.0	7.9	78	74	70	65	61	56	49	41	31	23	9
80HH506	3.7	5.0	9.3	93	89	84	78	74	68	59	50	38	27	11
80HH607	4.5	6.0	11.8	109	103	98	91	86	79	68	58	44	32	12
80HH810	5.5	7.5	14.5	155	148	140	130	123	113	98	83	63	45	18
80HH1012	7.5	10.0	18.0	186	177	168	156	147	135	117	99	75	54	21
80HH1315	9.3	12.5	22.5	233	221	210	195	184	169	146	124	94	68	26
80HH1518	11.0	15.0	26.0	279	266	252	234	221	203	176	149	113	81	32
80HH1821	13.0	17.5	32.5	326	310	294	273	257	236	205	173	131	95	37
80HH2024	15.0	20.0	36.5	372	354	336	312	294	270	234	198	150	108	42

100HH Series

PIPE SIZE: 50mm

PUMP MODEL	POWER RATING		RATED CURRENT (AMPS)	DISCHARGE IN LITRES PER MINUTE									
	kW	HP		100	125	155	180	205	230	255	280	305	330
TOTAL HEAD IN METRES													
100HH303	2.2	3.0	6.3	45	42	40	38	33	30	22	17	7	3
100HH404	3.0	4.0	7.9	60	56	53	51	44	40	29	23	9	4
100HH505	3.7	5.0	9.3	75	70	67	63	55	50	37	28	12	5
100HH606	4.5	6.0	11.8	90	84	80	76	66	60	44	34	14	6
100HH808	5.5	7.5	14.5	120	112	107	101	88	80	59	45	19	8
100HH1010	7.5	10.0	18.0	150	140	133	127	110	100	73	57	23	10
100HH1312	9.3	12.5	22.5	180	168	160	152	132	120	88	68	28	12
100HH1515	11.0	15.0	26.0	225	210	200	190	165	150	110	85	35	15
100HH1818	13.0	17.5	32.5	270	252	240	228	198	180	132	102	42	18
100HH2020	15.0	20.0	36.5	300	280	267	253	220	200	147	113	47	20

125HH Series

PIPE SIZE: 50mm

PUMP MODEL	POWER RATING		RATED CURRENT (AMPS)	DISCHARGE IN LITRES PER MINUTE										
	kW	HP		150	180	210	240	270	300	330	360	390	420	450
TOTAL HEAD IN METRES														
125HH403	3.0	4.0	7.9	48	45	44	42	42	39	36	34	28	24	18
125HH504	3.7	5.0	9.3	64	60	59	56	56	52	48	45	37	32	24
125HH605	4.5	6.0	11.8	80	75	73	70	70	65	60	57	47	40	30
125HH806	5.5	7.5	14.5	96	90	88	84	84	78	72	6	56	48	36
125HH1008	7.5	10.0	18.0	128	120	117	112	112	104	96	91	75	64	48
125HH1310	9.3	12.5	22.5	160	150	147	140	140	130	120	113	93	80	60
125HH1512	11.0	15.0	26.0	192	180	176	168	168	156	144	136	112	96	72
125HH1814	13.0	17.5	32.5	224	210	205	196	196	182	168	159	131	112	84
125HH2016	15.0	20.0	36.5	256	240	235	224	224	208	192	181	149	128	96

150HH Series

PIPE SIZE: 50mm

PUMP MODEL	POWER RATING		RATED CURRENT (AMPS)	DISCHARGE IN LITRES PER MINUTE									
	kW	HP		190	230	270	310	350	390	430	470	510	550
TOTAL HEAD IN METRES													
150HH302	2.2	3.0	6.3	30	29	26	25	23	20	17	13	10	1
150HH503	3.7	5.0	9.3	45	44	39	38	35	30	26	20	15	2
150HH604	4.5	6.0	11.8	60	58	52	50	46	40	34	26	20	2
150HH805	5.5	7.5	14.5	75	73	65	63	58	50	43	33	25	3
150HH1006	7.5	10.0	18.0	90	87	78	75	69	60	51	39	30	3
150HH1007	7.5	10.0	18.0	105	102	91	88	81	70	60	46	35	4
150HH1308	9.3	12.5	22.5	120	116	104	100	92	80	68	52	40	4
150HH1510	11.0	15.0	26.0	150	145	130	125	115	100	85	65	50	5
150HH1812	13.0	17.5	32.5	180	174	156	150	138	120	102	78	60	6
150HH2013	15.0	20.0	36.5	196	189	171	165	143	130	110	78	58	26

200HH Series

PIPE SIZE: 65mm

PUMP MODEL	POWER RATING		RATED CURRENT (AMPS)	DISCHARGE IN LITRES PER MINUTE									
	kW	HP		265	320	375	450	470	520	600	660	700	740
TOTAL HEAD IN METRES													
200HH402	3.0	4.0	7.9	31	29	27	24	21	19	14	10	5	2
200HH603	4.5	6.0	11.8	47	44	41	36	32	29	21	15	8	3
200HH804	5.5	7.5	14.5	62	58	54	48	42	38	28	20	10	4
200HH1005	7.5	10.0	18.0	78	73	68	60	53	48	35	25	13	5
200HH1306	9.3	12.5	22.5	93	87	81	72	63	57	42	30	15	6
200HH1508	11.0	15.0	26.0	124	116	108	96	84	76	56	40	20	8
200HH1809	13.0	17.5	32.5	140	131	122	108	95	86	63	45	23	9
200HH2010	15.0	20.0	36.5	155	145	135	120	105	95	70	50	25	10

Note: Performance applicable to liquid of specific gravity 1 and viscosity as of water.
Pumps can be supplied on demand in 65mm dia also in 100HH, 125HH & 150 HH series.



Electricity Cost ^{only} 50%



- Portable and hygienic grade of oil-filled motor facilitates use of anti-friction bearings (instead of journal bearings) resulting in smooth running and trouble-free operation of pumpset.
- **Stator is easily rewindable.**
- **Insulation : Class 'F'.**
- **Wider voltage range :** Three Phase 280 V to 430V (Rated Voltage : 415V)
- Maximum starts / stops per hour : 30

Applications

- Sprinkler and drip irrigation systems
- Farm houses, nurseries and gardening

Range

Head : 7-248 metres
 Capacity : 320-5 LPM
 Rating : 0.37 kW-4.1 kW
 (0.50 HP-5.5 HP) for three phase

Material of Construction

Pump

Pump Housing : Stainless Steel
 Pump Shaft : Stainless Steel
 Suction Bracket : Stainless Steel
 Discharge Nozzle : Stainless Steel
 Stage Bowl : Stainless Steel
 Impellers : Noryl
 Diffusers : Noryl
 Strainer : Stainless Steel

Motor

Motor Housing : Stainless Steel
 Motor Shaft : Stainless Steel
 Motor Topshield : Cast Iron (Ni plated)
 All Hardware : Stainless Steel

Features Pump

- Light weight and compact.
- Higher efficiency resulting in lower operating cost
- Unique design of impellers and diffusers leading to reduction in axial thrust on motor shaft.
- Non overloading power characteristics ensures trouble free operation in the entire operating range.
- Lower number of stages for a given performance.
- Easy assembling, dismantling and repairing; because of hexagonal shaft design.
- Strainer is inside the housing, hence no chance of damage.
- Can be installed with HDPE / UPVC / GI pipes.
- Flatter efficiency curve ensures better performance in the entire operating range.
- **Can also be installed horizontally.**

Motor:

- Anti-friction bearings for axial / radial loads give better life to motor.

WINNER -02 PIPE SIZE: 32mm

MODEL	kW	HP	Rated Current		DISCHARGE IN LPM					
			1Ø	3Ø	5	10	15	20	25	30
			TOTAL HEAD IN METRES							
KU4-0214 T	0.37	0.50	3.5	1.4	69	64	57	48	42	30
KU4-0221 T	0.55	0.75	4.5	1.9	102	95	86	73	63	44
KU4-0228 T	0.75	1.02	5.8	2.5	136	127	115	98	85	60
KU4-0234 T	1.1	1.5	7.9	2.9	164	154	139	116	100	70
KU4-0240 T	1.1	1.5	7.9	2.9	192	180	164	138	119	83

WINNER -03 PIPE SIZE: 32mm

MODEL	kW	HP	Rated Current		DISCHARGE IN LPM							
			1Ø	3Ø	10	15	20	25	30	35	45	
			TOTAL HEAD IN METRES									
KU4-0307 T	0.37	0.50	3.5	1.4	44	42	39	36	32	28	17	
KU4-0310 T	0.55	0.75	4.5	1.9	62	60	56	51	46	40	24	
KU4-0311 T	0.75	1.02	5.8	2.5	70	65	62	57	51	44	26	
KU4-0314 T	0.75	1.02	5.8	2.5	86	83	79	72	65	55	33	
KU4-0318 T	1.10	1.50	7.9	2.9	111	107	101	93	83	72	43	
KU4-0321 T	1.10	1.50	7.9	2.9	130	125	118	108	97	84	50	
KU4-0328 T	1.50	2.00	11	4.9	172	167	157	144	129	112	67	
KU4-0334 T	2.20	3.00	-	6	210	202	191	175	157	136	80	
KU4-0340 T	2.20	3.00	15	6	248	238	225	206	185	160	96	

Product Catalogue

WINNER -07 PIPE SIZE: 32mm

MODEL	kW	HP	Rated Current		DISCHARGE IN LPM					
			1Ø	3Ø	15	30	45	60	75	90
					TOTAL HEAD IN METRES					
KU4-0704T	0.37	0.50	3.5	1.4	28	25	23	20	15	8
KU4-0707T	0.55	0.75	4.5	1.9	50	44	40	34	26	16
KU4-0709T	0.75	1.02	5.8	2.5	60	57	52	44	33	22
KU4-0713T	1.10	1.50	7.9	2.9	88	82	74	64	48	29
KU4-0718T	1.50	2.00	11	4.5	120	113	103	88	66	40
KU4-0722T	1.90	2.50	13.8	-	132	127	120	107	90	86
KU4-0727T	2.20	3.00	15	6	179	170	155	132	100	60
KU4-0736T	3.00	4.00	-	8.5	239	227	208	176	133	83

WINNER -08 PIPE SIZE: 32mm

MODEL	kW	HP	Rated Current		DISCHARGE IN LPM				
			1Ø	3Ø	40	60	80	100	120
					TOTAL HEAD IN METRES				
KU4-0807T	0.75	1.02	5.8	2.5	39	36	32	27	20
KU4-0810T	1.10	1.50	7.9	2.9	56	52	46	38	27
KU4-0814T	1.50	2.00	11	4.5	78	72	63	51	37
KU4-0817T	1.90	2.50	13.8	5.3	94	87	77	62	45
KU4-0821T	2.20	3.00	15	6	116	107	95	77	56
KU4-0828T	3.00	4.00	-	8.5	155	143	126	105	75
KU4-0838T	4.10	5.50	-	10.5	210	195	173	143	104

WINNER -15 PIPE SIZE: 50mm

MODEL	kW	HP	Rated Current		DISCHARGE IN LPM				
			1Ø	3Ø	60	90	120	150	180
					TOTAL HEAD IN METRES				
KU4-1504T	0.55	0.75	4.5	1.9	23	21	18	13	8
KU4-1505 T	0.75	1.02	5.8	2.5	29	26	22	17	10
KU4-1507 T	1.10	1.50	7.9	2.9	40	37	31	24	14
KU4-1509 T	1.50	2.00	11	4.5	51	47	40	30	18
KU4-1512 T	2.20	3.00	-	6	68	62	52	40	24
KU4-1514 T	2.20	3.00	-	6	80	73	62	47	28
KU4-1519 T	3.00	4.00	-	8.5	109	99	84	64	38
KU4-1524 T	4.10	5.50	-	10.5	137	125	106	81	48

WINNER -15 PIPE SIZE: 50mm

MODEL	kW	HP	Rated Current		DISCHARGE IN LPM				
			1Ø	3Ø	120	170	220	270	320
					TOTAL HEAD IN METRES				
KU4-2504T	1.10	1.50	7.9	2.9	17	17	15	11	7
KU4-2506T	1.50	2.00	11	4.5	26	26	22	17	11
KU4-2507 S	2.20	3.00	13.8	6.0	30	30	26	19	12
KU4-2509T	2.20	3.00	15	6.0	39	39	33	25	16
KU4-2512 T	3.00	4.00	-	8.5	52	52	44	34	22
KU4-2516 T	4.10	5.50	-	10.5	69	69	59	59	29

Note: The values given in Highlighted columns of above tables indicated the recommended operating range of the pumps.

**Cable Selection Chart at Rated Voltage, 50 Hz, Single / Three Phase Motors
(Considering Ambient Temperature, 40°C and 3% Voltage Drop)**

MOTOR TYPE	MOTOR RATING		FULL LOAD CURRENT (IN AMPS) FOR OIL FILLED	3 CORE CABLE SIZE IN Sq. mm.						
				1.0	1.5	2.5	4.0	6.0	10.0	16.0
				LENGTH OF CABLE IN METRES						
THREE PHASE 415V	0.37	0.5	1.4	424	140	-	-	-	-	-
	0.55	0.75	1.9	201	108	368	-	-	-	-
	0.75	1.02	2.5	152	68	322	-	542	-	-
	1.10	1.5	2.9	134	54	230	510	417	687	-
	1.50	2.0	4.5	95	-	177	364	257	-	-
	2.20	3.0	6.0	73	-	107	280	207	-	-
	3.0	4.0	8.5	-	-	87	167	-	-	-
	4.10	5.5	10.5	-	-	-	138	-	-	-

Note : The table states the maximum allowable length in metres for three core, flat PVC sheathed, submersible copper cables for installation where site voltages are normal. For the low site voltage conditions, it is advised to go for the next higher cable size.
Example : For pumpset having motor of 1.1 kW(1.5HP) and 150 of cable length; referring the selection chart, the correct cable size to be used is 1.5 sq. mm. It is recommended to get the bore flushed / cleaned to get longer and trouble free service from the pumpsets.

KIRLOSKAR
NW
End Suction Pumps



Features

- Suction lift upto 7.5 metres
- Top flat efficiency curve-minimum variation in efficiency in entire operating range
- Efficiency at par with internationally available pumps-higher upto 10 points than minimum required by Indian Standards specifications
- Can be run direct /through pulley with engine / motor
- Designed to prevent overloading of engine / motor
- Designed for automatic air release during priming
- Dynamically balanced obtaining parts ensure minimum vibrations
- Replaceable wearing parts and hence longer life
- Better sealing against air leakage due to greater stuffing box depth
- Provided with outer bearing stand (against requirement) for better support to pulley (In case

Material of Construction

Standard Supply

Impeller : Cast Iron
Delivery Casing : Cast Iron
Shaft : Carbon Steel

Applications

- Irrigation

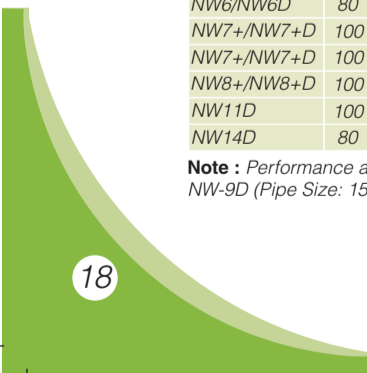
Range

Head : 5-44 metres
Capacity : 96.5- 7.58 LPS
Power Rating :
Motor Coupled : 2.2kW-11.0kW
(3.0HP- 15.0 HP)
Engine Coupled : 3.7kW-18.7kW
(5.0HP-25.0HP)

Approximate performance of 'NW/NW+NWD' Series, Coupled End Suction Pumps, at rated speed:
Engine Coupled Pumps

PUMP MODEL	PIPE SIZE (mm)		RATED SPEED (RPM)	IMP DIA. (mm)	POWER RATING		TOTAL HEAD IN METRES																																
	SUC.	DEL.			kW	HP	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44								
							DISCHARGE IN LITRES PER SECOND																																
NW6/NW6D	80	80	1500	295	7.5	10.0										17.0	15.6	13.6	10.6																				
NW6/NW6D	80	80	1800	274	10.4	14.0											17.0	15.5	13.7	11.5	8.2																		
NW6/NW6D	80	80	1800	288	11.9	16.0														18.9	17.5	16.0	14.0	11.5	7.5														
NW6/NW6D	80	80	2000	265	13.0	17.4															20.0	19.0	17.6	15.7	13.3	10.3													
NW7+/NW7+D	100	80	1800	250	11.9	16.0	34.5	34.0	33.0	32.0	31.0	29.9	28.5	27.1	26.6	23.7	21.5																						
NW7+/NW7+D	100	80	2000	236	13.0	17.4											36.5	35.8	34.8	33.8	32.8	31.5	30.3	29.0	27.8	26.2	24.5	22.5	20.5										
NW8+/NW8+D	100	100	1800	258	17.2	23.0											45.0	44.0	43.0	41.9	40.2	38.8	37.0	35.0	33.3	31.2													
NW11D	100	80	1450	349	7.75	10.5																											29.0	26.0	24.7	22.2	19.2		
NW14D	80	65	1800	293	15.6	21.2											11.0	10.8	10.7	10.6	10.5	10.3	10.2	10.0	9.8	9.5	9.3	9.0	8.8	8.4	8.2	7.8	7.4	7.0	6.5	5.8	5.2	4.2	2.8

Note : Performance applicable to liquid of specific gravity 1 and viscosity as of water.
NW-9D (Pipe Size: 150 x 150 mm) is supplied with 125 to 150 mm extension flanges for both suction and delivery sizes against requirement.



Approximate performance of 'NW/NW+NWD' Series, Coupled End Suction Pumps, at rated speed:

'NW' Engine Coupled Pumps

PUMP MODEL	PIPE SIZE (mm)	RATED SPEED (RPM)	IMP DIA. (mm)	POWER RATING	TOTAL HEAD IN METRES																											
					SUC.	DEL.	kW	HP	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
DISCHARGE IN LITRES PER SECOND																																
NW1+/NW1D	65	50	1800	207	4.6	5.7															16.7	16.0	15.0	13.7	12.4							
NW1+/NW1D	65	50	1800	221	5.2	7.0																17.4	16.5	15.5	14.5	13.0						
NW1+/NW1D	65	50	1800	223	6.0	8.0																19.5	18.5	18.0	17.3	16.4	15.2	14.1	12.6			
NW2+/NW2D	80	65	1500	223	3.7	5.0								22.0	20.8	19.3	17.9	16.0	14.0													
NW2+/NW2D	80	65	1800	203	5.2	4.0									24.0	23.1	21.8	20.6	19.5	18.0	16.0	14.0										
NW2M+/NW2DM+	80	80	1500	223	3.7	5.0								22.0	20.8	19.3	17.9	16.0	14.0													
NW2M+/NW2DM+	80	80	1800	203	5.2	7.0									24.0	22.8	21.8	20.7	19.5	18.0	16.0	14.0										
NW2+/NW2D	80	65	1800	212	6.0	8.0									24.7	23.5	22.3	21.0	19.5	18.0	16.3											
NW2M+/NW2DM+	80	80	1800	212	6.0	8.0									24.7	23.5	22.3	21.0	19.5	18.0	16.3											
NW2+/NW2D	80	65	2000	196	6.5	8.7									25.0	24.0	22.7	21.4	20.0	18.7	17.1											
NW2M+/NW2DM+	80	80	2000	196	6.5	8.7									25.0	24.0	22.7	21.4	20.0	18.7	17.1											
NW3/NW3+D	65	50	1500	239	3.7	5.0									14.3	13.5	12.7	11.7	10.7	9.5												
NW4+/NW4D	100	100	1500	197	3.7	5.0			34.0	32.5	30.7	29.0	26.5	23.7	20.0																	
NW4+/NW4D	100	100	1500	167	3.7	5.0			35.0	33.5	32.0	30.0	28.0	25.0	21.9																	
NW4+/NW4D	100	100	1500	201	4.5	6.0			35.5	34.4	33.0	31.1	29.0	26.2	22.7	17.7																
NW4+/NW4D	100	100	1500	206	5.2	7.0			36.0	34.5	33.0	31.1	29.0	26.7	23.5																	
NW4+/NW4D	100	100	1800	184	5.2	7.0			37.5	36.0	34.3	32.6	30.8	28.6	26.0	23.0																
NW4+/NW4D	100	100	1800	188	6.0	8.0			37.0	36.0	34.7	33.4	31.6	29.7	27.4	24.5	20.0															
NW4+/NW4D	100	100	2000	173	6.5	8.7			38.0	36.5	35.8	34.5	33.0	31.0	28.0	25.0																
NW7+/NW7D	100	80	1500	255	6.5	8.7				30.6	29.9	29.0	28.0	27.0	26.0	24.6	23.4	22.0	20.8	19.2	17.9	15.0										
NW7+/NW7+D	100	80	1500	218	4.5	6.0				24.6	23.3	21.8	20.0	18.0	15.3																	
NW7+/NW7+D	100	80	1500	230	5.2	7.0				26.5	25.0	23.7	22.0	20.2	18.0	15.3																
NW7+/NW7+D	100	80	1500	255	7.5	10.0				29.0	27.7	26.5	25.2	23.6	22.0	20.0	17.8															
NW7+/NW7+D	100	80	1800	226	8.6	11.5				31.0	30.0	28.6	27.2	26.0	24.5	23.0	21.0	18.7														
NW7+/NW7+D	100	80	1800	240	10.4	14.0				33.0	32.0	31.0	30.0	29.0	27.5	26.0	24.2	22.5	20.1													
NW7+/NW8+D	100	100	1500	245	7.5	10.0			40.0	39.0	38.2	37.0	36.0	34.8	33.5	32.0	30.2	28.0	26.0	23.0												
NW9D	125	125	1500	177	4.5	6.0	58.7	53.2	48.0	42.0	33.2																					
NW9D	125	125	1500	183	5.2	7.0			57.6	52.5	47.0	41.2																				
NW9D	125	125	1500	198	7.5	10.0			66.0	61.5	57.0	51.3	45.0	37.5																		
NW9D	125	125	1800	175	8.6	11.5			65.0	61.2	56.7	51.7	45.2																			
NW9D	125	125	1500	205	9.0	12.0			65.5	61.5	57.3	52.7	48.0	40.5																		
NW9D	125	125	1800	186	10.4	14.0			72.0	68.7	65.0	61.1	56.4	51.7	46.2																	
NW9D	125	125	1800	195	11.9	16.0			72.0	68.0	64.5	60.5	56.2	50.7	43.2																	
NW9D	125	125	2000	182	13.0	17.4			77.0	73.6	70.4	66.7	63.0	58.7	54.0	46.5																
NW10D	125	125	1450	260	11.0	15.0				54.0	52.9	51.3	50.0	48.0	46.2	44.0	42.0															
NW10D	125	125	1500	260	14.2	19.0				54.5	53.3	52.0	50.2	48.3	46.5	44.0																
NW10D	125	125	1800	234	17.2	23.0				58.4	57.0	55.5	54.0	52.5	49.7	48.8																
NW10D	125	125	2000	220	18.7	25.0				61.5	60.3	58.8	57.5	56.2	55.0	53.5	51.2															
NW12D	150	150	1500	242	14.2	19.0			89.0	87.0	85.0	82.5	80.0	77.0	74.0	70.4	66.7	62.0	55.0													
NW12D	150	150	1800	212	17.2	12.0			95.0	92.7	91.0	89.0	86.4	84.0	81.7	78.5	75.5	71.8	66.0	62.3	56.0											
NW12D	150	150	2000	197	18.7	25.0			96.5	95.5	92.7	90.7	88.5	86.6	84.5	82.2	80.0	76.5	72.2													

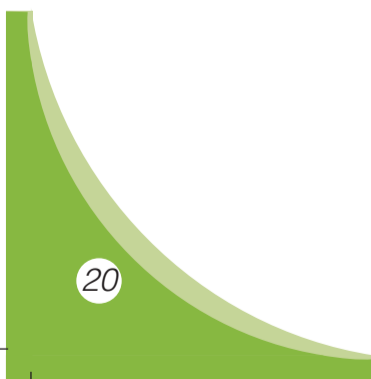
PUMP MODEL	PIPE SIZE (mm)	RATED SPEED (RPM)	IMP DIA. (mm)	POWER RATING	TOTAL HEAD IN METRES																													
					SUC.	DEL.	kW	HP	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34					
DISCHARGE IN LITRES PER SECOND																																		
NW8+/NW8+D	100	100	2000	245	18.7	25.0	57.5	56.0	54.8	53.6	52.5	51.3	50.1	49.0	48.0	47.0	45.7	44.5	43.0	42.0	40.7	39.2	38.0	36.0	34.2	32.0	30.0							

Approximate performance of 'NW/NW+NWD' Series, Coupled End Suction Pumps, at rated speed:
'NW' Motor Coupled Pumps

PUMP MODEL	PIPE SIZE (mm)		RATED SPEED (RPM)	IMP DIA. (mm)	POWER RATING		TOTAL HEAD IN METRES																					
	SUC.	DEL.			kW	HP	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
DISCHARGE IN LITRES PER SECOND																												
NW1++	65	50	1400	223	2.2	3.0									14.0	12.9	11.6	9.8										
NW1+NW1D	65	50	1400	223	2.2	3.0									14.0	12.9	11.6	9.8										
NW2+/NW2D	80	65	1420	230	3.7	5.0									23.7	22.4	21.0	19.3	17.2	14.4								
NW2M+/NW2DM+	55	80	1420	230	3.7	5.0									23.7	22.4	21.0	19.3	17.2	14.4								
NW3+/NW3+D	65	50	1400	256	3.7	5.0													14.5	13.7	12.9	12.0	11.0	10.0				
NW4+/NW4D	100	100	1420	206	3.7	5.0	34.0	32.7	31.2	29.5	27.4	25.0	21.0															
NW7+/NW7D	100	80	1450	255	5.5	7.5					29.6	28.8	27.9	27.0	26.0	24.8	23.8	22.8	21.0	19.6	18.0	16.0	12.4					
NW4+/NW4D+D	100	80	1420	255	5.5	7.5									28.0	26.7	25.5	24.0	22.8	20.6	18.5	16.0						
NW8/NW8D	100	100	1450	238	5.5	7.5			37.0	35.9	34.8	33.5	32.2	31.0	29.2	27.0	25.0	22.6	19.4									
NW8/NW8D	100	100	1450	258	7.5	10.0					40.0	39.0	37.8	36.2	35.0	34.0	32.6	31.0	29.0	26.4	24.0	20.4						
NW8/NW8D	100	100	1450	274	9.3	12.5									41.0	40.0	39.0	37.8	36.4	35.0	34.0	32.0	30.6	28.6	26.0	23.0	20.0	
NW8/NW8+D	100	100	1450	238	5.5	7.5			35.0	34.0	33.0	31.8	30.4	29.7	26.8	24.2	21.0											
NW8/NW8D	100	100	1450	258	7.5	10.0									36.0	34.5	33.0	31.0	29.0	27.0	24.0							
NW9D	125	125	1450	197	5.5	7.5	62.0	7.4	52.2	47.0	40.2																	
NW9D	125	125	1450	210	7.5	10.0	73.0	70.0	65.7	62.0	57.5	52.0	45.0	36.0														
NW10D	125	125	1450	206	5.5	7.5			42.5	41.5	39.8	37.2	34.5															
NW10D	125	125	1450	228	7.5	10.0					47.5	46.0	44.0	42.0	40.0	37.5												
NW10D	125	125	1450	245	9.3	12.5									50.5	49.0	47.0	45.0	43.0	41.0								
NW10D	125	125	1450	260	11.0	15.0									54.4	52.9	51.3	50.0	48.0	46.2	44.0	42.0						
NW12D	150	150	1450	242	11.0	15.0	87.0	85.5	83.7	81.0	78.5	76.0	73.0	69.0	65.5	61.0	54.0											

PUMP MODEL	PIPE SIZE (mm)		RATED SPEED (RPM)	IMP DIA. (mm)	POWER RATING		TOTAL HEAD IN METRES														
	SUC.	DEL.			kW	HP	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
DISCHARGE IN LITRES PER SECOND																					
NW8/NW8D	100	100	1450	289	11.0	15.0	43.2	42.0	41.2	40.6	39.2	38.6	37.2	36.0	34.6	32.8	31.4	29.0	26.8	23.0	20.0

PUMP MODEL	PIPE SIZE (mm)		RATED SPEED (RPM)	IMP DIA. (mm)	POWER RATING		TOTAL HEAD IN METRES														
	SUC.	DEL.			kW	HP	22	23	24	25	26	27	28	29	30	31	32				
DISCHARGE IN LITRES PER SECOND																					
NW6/NW6D	80	80	1450	288	5.5	7.5	17.0	16.1	14.8	13.0	10.4	6.0									
NW6DM	80	80	1450	305	7.5	10.5									21.0	19.3	17.3	15.0	12.0		



KIRLOSKAR
KE+
End Suction Pumps



Features

- Suction lift upto 8 metres
- Top flat efficiency curve-minimum variation in efficiency in entire operating range
- Efficiency at par with internationally available pumps higher upto 10 points than minimum required by Indian Standards Specifications
- Can be run direct / through pulley with engine / motor
- Repairs possible without disturbing the pipe connections
- Dynamically balanced rotating parts, ensure minimum vibrations during running
- Designed to run direct / through pulley with engine / motor
- Replaceable wearing parts and hence longer life
- Designed for automatic air release during priming

Material of Construction

Standard Supply

- Impeller : Cast Iron
- Delivery Casing : Cast Iron
- Shaft : Carbon Steel

Applications

- Irrigation

Range

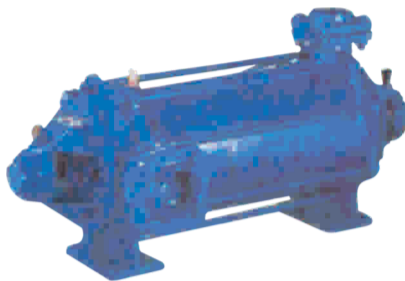
- Head : 6-23 metres
- Capacity : 37.0-10.8 LPS
- Power Rating : 3.7 kW-5.9 kW (5.0 HP-8.0 HP)

Approximate performance

PUMP MODEL	PIPE SIZE (mm)		IMPELLER DIA. (mm)	DEPTH TO LOW WATER LEVEL IN METRES													ENGINE			RATED SPEED (RPM)	
	SUC.	DEL.		12	13	14	15	16	17	18	19	20	21	22	23	TYPE	KW	HP			
DISCHARGE IN LITRES PER SECOND																					
65KE-250+	80	65	223	22.0	20.7	19.3	17.8	16.0	14.0	10.8							AV-1	3.7	5.0	1500	
65KE-250+	80	65	211				24.8	23.8	22.8	21.6	20.4	19.0	17.4	15.5	12.4		TV-1	5.9	8.0	1800	
				6	7	8	9	10	11	12	13	14	15	16							
100KE-215+	100	100	197	34.0	32.5	30.8	28.9	26.8	24.2	19.6							AV-1	3.7	5.0	1500	
100KE-215+*	100	100	201	35.2	33.7	32.0	30.2	28.2	25.7	22.7	17.7						TA-1	4.4	6.0	1500	
100KE-215+	100	100	206		36.0	34.5	32.8	31.2	29.2	27.0	24.0	19.0					TV-1	5.2	7.0	1500	
100KE-215+	100	100	188			37.0	36.0	34.7	33.3	31.6	29.7	27.2	24.4	20.0			TV-1	5.9	8.0	1800	

Note: Performance applicable to liquid of specific gravity 1 and viscosity as of water. All pumps except 100 KE-215+ (Imp Dia. 201) are ISI marked.

KIRLOSKAR
SR
Multistage Pumps



Kirloskar 'SR' Series End Suction Pumps

Single Stage, High Speed, Horizontal, Centrifugal, Coupled End Suction Pumps with Volute Type Delivery casing

Features

- Top flat efficiency curve: minimum variation in efficiency in entire operating range.
- Efficiency at par with internationally available pumps.
- Designed to run direct / through pulley with engine / motor.
- Designed to prevent overloading of engine / motor.
- Designed for automatic air release during priming.
- Dynamically balanced rotating parts ensure minimum vibrations.
- Replaceable wearing parts and hence longer life.
- Easy maintenance and spares availability.

Applications

Range

Head :30-136 metres
Capacity :13.9-1.0 Lit. per sec.
Power Rating :3.7 kW to 19 kW
(5.0 HP to 26.0 HP)

Direction of Rotation

Clockwise, when viewed from non driving end.

Material of Construction :

Standard Supply

Impeller : Cast Iron
Delivery Casing : Cast Iron
Shaft : Carbon Steel

Approximate performance of 'SR' Series, Coupled end suction pumps at 1450 rpm:

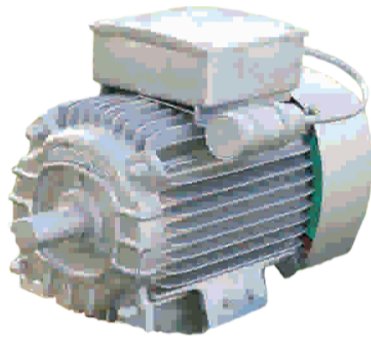
Pump Model	Pump Rating		Pipe Size (mm)		TOTAL HEAD IN METRES								
	kW	HP	SUC.	DEL.	30	35	40	50	60	70	80	90	
					CAPACITY IN LITRES PER SECOND								
8 SR 7	3.7	5.0	65	50	4.5	4.2	3.8	3.0	1.8				
16 SR 6	7.5	10.0	80	65		9.3	8.5	6.9	4.6				
26 SR 9*	9.3	12.5	80	65		11.5	11.1	10.1	9.0	7.8	6.4	3.8	

Approximate performance of 'SR' Series, Coupled end suction pumps at 1800 rpm:

Pump Model	Pump Rating		Pipe Size (mm)		TOTAL HEAD IN METRES										
	kW	HP	SUC.	DEL.	50	60	70	80	90	95	100	110	120	130	136
					CAPACITY IN LITRES PER SECOND										
8 SR 7	5.9	8.0	65	50	5.4	4.8	4.2	3.5	2.5	1.9	1.0				
16 SR 6	11.8	16.0	80	65	12.0	10.7	9.5	8.0	6.3	4.9					
26 SR 9*	19.0	26.0	80	65		13.9	13.1	12.2	11.5	11.1	10.6	9.6	8.5	7.0	5.6

Note : Performance applicable to liquid of specific gravity 1 and viscosity as of water.
Also available in reverse rotation as 26SR9R (Direction: Anticlockwise when viewed from non driving end)

KIRLOSKAR
DYNAM
SINGLE PHASE MOTOR



Specification

Synchronous speed : 1500 rpm (C4)
 Power Rating for C4 : 1.1, 1.5 and 2.2 kW
 (1.5, 2.0 and 3.0 HP)
 Voltage Range : 220 ± 10%
 Enclosure : TEFC
 Protection : IP 55
 Duty : S1 (Continuous)
 Mounting : B5
 Class of Insulation : F
 Ambient Temp. : 50° C
 Max. Permissible Temp : Limited to class 'B'
 Frequency : 50 Hz (± 3%)
 Combined Variation : ± 6%

Material of Construction

Standard Supply

Rotor : Aluminium diecast
 Motor Body : Cast Iron
 Shaft : Carbon Steel

Capacitor Start, Capacitor Run

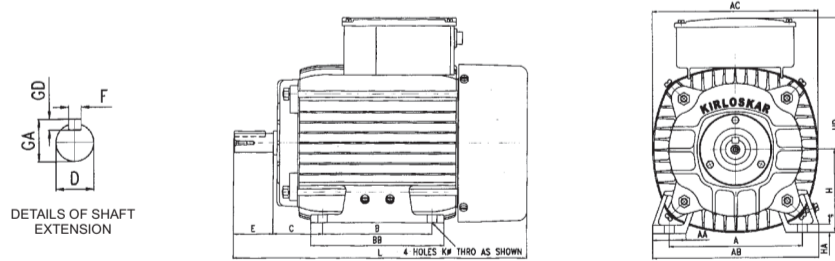
Separate Capacitors are provided to ensure the good starting & running performance of the motor. Capacitor used for starting is switched out when the motor runs up to speed & run capacitor operates in circuit continuously.

Performance figures for 1500 rpm (Synchronous) 4 Pole, Single Phase Motor at 220 V rated voltage

Rated Output kW	HP	Phase	Frame Size	Operating Characteristics at Rated Output				Starting Current as per unit of Full load current	Starting Torque as % of Full load torque	Pull out Torque as % of Full load torque	Capacitor (MFD)	
				Rated Speed RPM	Rated Current AMPS	Rated Torque Kgm	Efficiency %				Start	Run
1.1	1.5	1	K-112	1430	9.5	0.76	65	5	200	200	120-150	15
1.5	2	1	K-112	1430	11.5	1.02	71	5	200	200	200-250	20
2.2	3	1	K-112	1430	16	1.51	73	5	200	200	200-250	30

•0.5, 1.0, 1.5, 2.0 HP as M90S & M100L frame also.

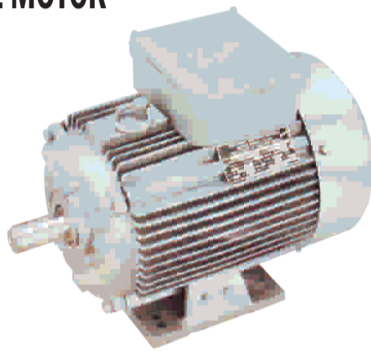
Dimensional Details :



Approximate performance of 'K 112' Series, Single Phase Motor:

HP	POLE	FRAME	A	B	C	D	E	F	H	K	GA	GD	AA	AB	AC	BB	HA	HD	L
1.5, 2.0 3.0	4	K-112	190	140	70	28j 6	60	8	112	12	31	7	57	230	224	174	14	297.2	417

KIRLOSKAR
DYNA^M
SINGLE PHASE MOTOR



Kirloskar 'DYNA' Series Single Phase Motor

Specifications

Rating synchronous	: 4 pole (1500 rpm speed) 0.37, 0.75, 1.1 and 1.5 kW (0.25, 0.50, 1.00, 1.50 and 2.00 HP) 2-pole (3000 rpm synchronous speed) 0.37, 0.75, 1.1 and 1.5 kW (0.50, 1.00, 1.50 and 2.00HP)
Enclosure	: TEFC
Protection	: IP44
Duty	: S1 (Continuous)
Mounting	: B3 (Horizontal Foot Mounted)
Class of Insulation	: B
Ambient Temp.	: 40°C
Max. Permissible Temp.	: 130°C
Voltage	: 220V (+ 10%)
Frequency	: 50Hz (+ 3%)
Combined Variation	: + 6%
Direction of Rotation	: Suitable for operation in either direction.
Altitude Correction	: Performance valid up to 1000 meters above MSL
Reference Standard	: IS-996

Features

- Four cornered heavy duty CI motor body with better damping characteristics. Deep cast fins and more surface area to ensure better heat dissipation.
- Totally enclosed fan cooled motors free from moisture and insects entry.
- Top mounted terminal box of large size for easy entry and connection to cables. Terminal board made of non-hygroscopic electrical grade bakelite.
- Stator lamination designed for better performance with winding conforming to IS13730 (part 3). High pressure die cast rotor made of high conductivity aluminium.
- Heavy duty and no friction deep grooved shielded ball bearings ensure smooth and longer operation.
- Better efficiency in varied load conditions.
- Hardware used to passivated material for better corrosion resistance.

Applications

- Machine tools.
- In industries for various applications.
- Pumping, air handling equipments, flour mills, wood working machines, textile industry

Material of Construction

Standard Supply

Rotor	: Aluminium
Motor Body	: Cast Iron
Shaft	: Carbon Steel

Optional Supply

Shaft	: Stainless Steel
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FRAME	HP	POLE
M90	1.0, 1.5	2
	0.5, 1.0	4
M100-L	2.0	2
	15, 2.0	4



Kirogen Brushless Alternators

Self excited, AVR controlled alternators

Features

- Uninterrupted power supply resulting in smooth functioning.
- Self excited and Automotive Voltage Regulator (AVR) Controlled with simple excitation system.
- Excellent Voltage wave form and regulation at non linear loads.
- Easily adjustable to non-linear (Thyristor) loads.
- Top mounted terminal box.
- Insulation Class: 'F'
- Assurance for voltage build up from lowest residual.
- Excellent motor starting ability.
- Cost effective and easy maintenance.
- Dynamically balanced rotating parts.
- Compact and robust design with reduction in height, vibration and increased reliability.
- Aesthetically designed

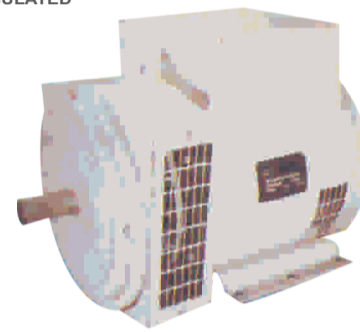
Applications

- Telecom Industries
- Hospital/ Surgical Machineries/ Equipments
- Banks • Railway Petrol Pumps
- Computers & Precision Machines
- Cinema • A.C. Motors
- Thyristor Loads

KSA series - 0.8 PF, 50 Hz, 1500 RPM

KIROGEN ALTERNATOR						
MODEL	kVA	kW	AMPS	Phase	% Efficiency	Required Engine BHP
KSA - 105	5.0	4.0	20.8	1	69.5	8
KSA - 108	7.5	6.0	31.3	1	73.7	10
KSA - 110	10.0	8.0	41.7	1	77.0	12
KSA - 113	12.5	10.0	52.1	1	80.0	16
KSA - 115	15.0	12.0	62.5	1	82.0	20
KSA - 120	20.0	16.0	83.3	1	82.0	26
KSA - 125	25.0	20.0	104.0	1	83.0	26
KSA - 130	30.0	24.0	125.0	1	84.0	42
KSA - 305	5.0	4.0	6.95	3	79.9	8
KSA - 308	7.5	6.0	10.4	3	77.0	10
KSA - 310	10.0	8.0	13.9	3	81.0	12
KSA - 313	12.5	10.0	17.4	3	81.5	16
KSA - 315	15.0	12.0	20.9	3	82.5	20
KSA - 320	20.0	16.0	27.8	3	85.5	26
KSA - 325	25.0	20.0	34.8	3	86.5	30
KSA - 330	30.0	24.0	41.7	3	86.0	42
KSA - 340	40.0	32.0	55.6	3	87.0	56

Note : 1 While selecting Alternator, the environment temperature and altitude should be taken into account and derating factor should be applied



Specifications

Specifications	Single Phase		Three Phase	
	UPF	0.8PF	UPF	0.8PF
Output (kVA)	2-15	5-20	5-10	5-40
Voltage (V)	230	240	415	415
Kirogen Series	KBM	KGA	KBM	KGA

•UPF- Unity Power Factor PF- Power Factor

- Voltage Regulation : +/- 10% for UPF
+/-5% for 0.8 PF
- Speed : 1500 PRM
- Frequency : 50Hz
- Ambient Temperature : 40° C
- Altitude : Upto 1000m above mean sea level
- Duty : S1
- Type of Cooling : Fan Cooled

KIRLOSKAR
KIROGEN
ALTERNATOR
KBM & KGA
 SELF EXCITED & SELF REGULATED



Features

- Self exciting and self regulating with compounding excitation system.
- Excellent voltage waveform and regulation.
- Suitable for non-linear (Thyristor) loads (KGA series).
- Top mounted excitation unit.
- Insulation Class: 'H'
- Assurance for voltage build up from lowest residual.
- Excellent motor starting ability.
- Cost effective and easy maintenance.
- Dynamically balanced rotating parts.
- Compact and robust design with reduction in height, vibration and increased reliability.
- Aesthetically designed

Specification

Voltage Regulation	: +- 1
Speed	: 1500 PRM
Frequency	: 50Hz
Ambient Temperature	: 50° C
Altitude	: Upto 1000m above mean sea level
Duty	: S1
Type of Cooling	: Fan Cooled

Applications

- Railways
- Restaurants
- Farm houses
- Petrol bunks
- Processions
- Offices
- Construction sites
- Submersible Pump
- Computers
- Domestic power supply
- Cinema
- A.C. Motors
- Lighting
- Thyristor Loads
- Hotels
- Portable power supplies
- Xerox Machines
- Showrooms

KBM series - UPF, 50 Hz, 1500 RPM

KIROGEN ALTERNATOR						
MODEL	kVA	kW	AMPS	Phase	% Efficiency	Required Engine BHP
KBM - 102M	2.0	2.0	8.7	1	74.0	3.5
KBM - 103M	3.0	3.0	13.0	1	74.0	5
KBM - 104M	4.0	4.0	17.4	1	75.5	6
KBM - 105M	5.0	5.0	21.7	1	76.0	8
KBM - 106M	6.0	6.2	26.0	1	77.0	8
KBM - 108M	7.5	7.5	32.6	1	81.0	10
KBM - 110M	10.0	10.0	43.5	1	81.0	12
KBM - 113	12.5	12.5	54.3	1	81.5	16
KBM - 115	15.0	15.0	65.2	1	82.0	20
KBM - 305	5.0	5.0	6.95	3	76.0	8
KBM - 308M	7.5	7.5	10.4	3	78.0	10
KBM - 309M	8.75	8.75	12.2	3	78.0	12
KBM - 310M	10.0	10.0	13.9	3	79.0	12
KBM - 313	12.5	12.5	17.4	3	83.0	16
KBM - 315	15.0	15.0	20.9	3	83.0	20

Specifications

Specifications	Single Phase	Three Phase
	0.8PF	0.8PH
Output (kVA)	5-30	5-40
Current (AMP)	20.8-12.5	7-55.6
Voltage (V)	240	415

•PF- Power Factor

Voltage Regulation : +/- 1%
 Speed : 1500 RPM
 Frequency : 50Hz
 Insulation class : H
 Ambient Temperature : 50° C
 Altitude : Upto 1000m above mean sea level
 Duty : S1
 Type of Cooling : Fan Cooled

KGA series - 0.8 PF, 50 Hz, 1500 RPM

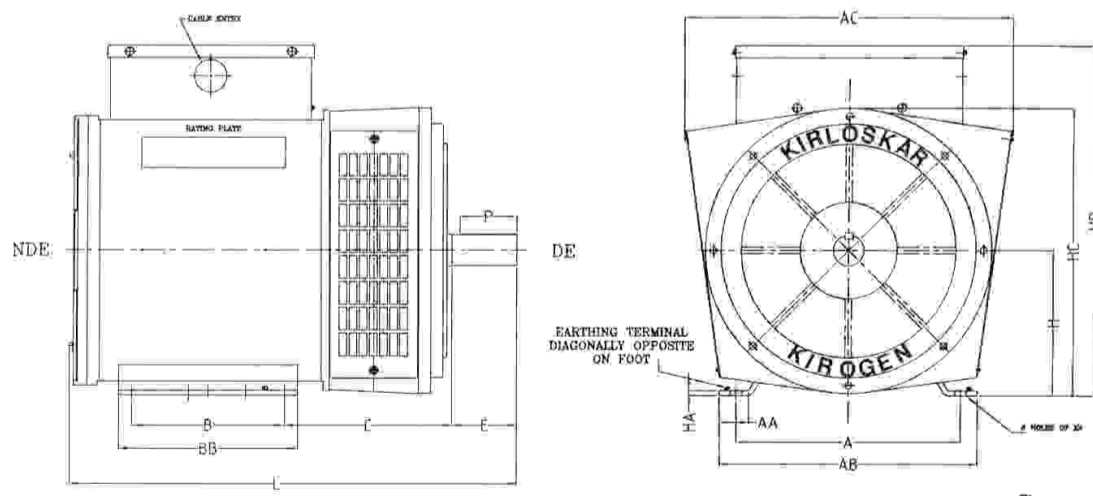
KIROGEN ALTERNATOR						
MODEL	kVA	kW	AMPS	Phase	% Efficiency	Required Engine BHP
KGA - 105M	5.0	4.0	20.8	1	74.0	8
KGA - 106M	6.0	4.8	25.0	1	79.0	8
KGA - 108M	7.5	6.0	31.2	1	79.5	10
KGA - 110M	10.0	8.0	41.6	1	80.0	12
KGA - 113M	12.5	10.0	52.3	1	80.0	16
KGA - 115M	15.0	12.0	62.5	1	81.0	20
KGA - 120M	20.0	16.0	83.3	1	85.0	26
KGA - 305M	5.0	4.0	6.95	3	80.0	8
KGA - 308M	7.5	6.0	10.4	3	81.0	10
KGA - 310M	10.0	8.0	13.9	3	81.0	12
KGA - 311M	12.5	10.0	17.4	3	82.0	16
KGA - 315M	15.0	12.0	20.9	3	82.0	20
KGA - 320	20.0	16.0	27.8	3	85.0	26
KGA - 325	25.0	20.0	34.8	3	87.0	30
KGA - 330M	30.0	24.0	41.7	3	88.0	42
KGA - 340M	40.0	32.0	55.6	3	89.0	56

Note :

1. While selecting Alternator, the environment temperature and altitude should be taken into account and derating factor should be applied.
2. KBM Series of Alternators are unity power factor hence is should be connected to UPF load only.

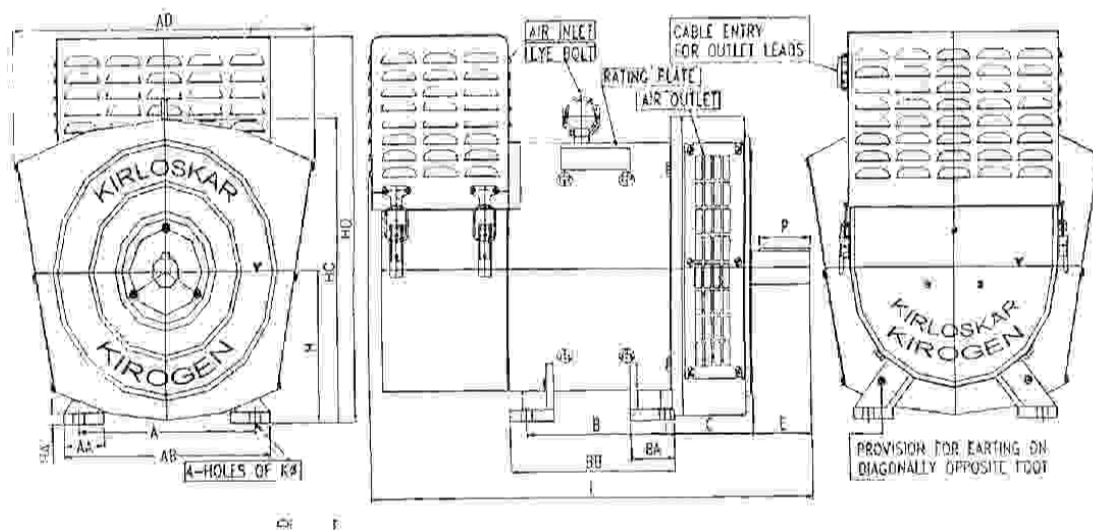
KSA Series

Outline Dimension



Dimensional Details

MODEL	A	AA	AB	AC	B	C	D	E	F	G	GA	GD	GE	H	HA	HC	HD	K	L	P
KSA-105/108/110	279	36	321	408	188	206	38.018/38.002	80	12	37	45	8	5	180.0/179.5	6	348	435	14	553	70
KSA-113	279	36	321	410	188	206	42.018/42.002	80	12	37	45	8	4	180.0/179.5	6	358	435	14	595	70
KSA-115	279	36	321	410	188	253	42.018/42.002	80	12	37	45	8	4	180.0/179.5	6	358	435	14	635	70
KSA-120	356	69	425	494	210	187	48.018/48.002	110	16	49	59	10	6	225.0/224.5	8	435	486	14	728	100
KSA-125	356	69	425	494	210	187	48.018/48.002	110	16	49	59	10	6	225.0/224.5	8	435	486	14	760	100
KSA-130	356	69	425	494	210	187	55.030/55.011	110	16	49	59	10	6	225.0/224.5	8	435	486	14	820	100
KSA-305/308/ 310/313/315	279	36	321	408	188	206	38.018/38.002	80	12	37	45	8	5	180.0/179.5	6	348	435	14	553	70
KSA-320	279	36	321	410	188	210	42.018/42.002	80	12	37	45	8	4	180.0/179.5	6	358	435	14	595	70
KSA-325	279	36	321	410	188	253	42.018/42.002	80	12	37	45	8	4	180.0/179.5	6	358	435	14	635	70
KSA-330	356	69	425	494	210	187	48.018/48.002	110	16	49	59	10	6	225.0/224.5	8	435	486	14	728	100
KSA-340	356	69	425	494	210	187	55.030/55.011	110	16	49	59	10	6	225.0/224.5	8	435	486	14	820	100



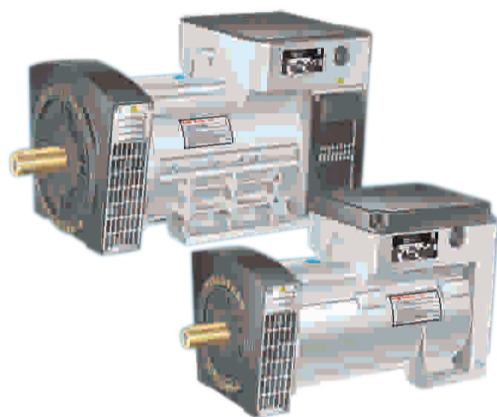
Dimensional Details

MODEL	A	AA	AB	AC	B	BA	BB	C	D	E	F	G	GA	GD	GE	H	HA	HC	HD	K	L	P
KBM-102M/103M	216	50	265	335	110	44	130	84	28.009/27.996	60	8	24	31	7	4	143.0/142.5	13	290	360	12	425	54
KBM-104M/105M	216	50	265	335	130	44	165	84	28.009/27.996	60	8	24	31	7	4	143.0/142.5	13	290	360	12	450	54
KBM-106M/108M /305/308M/309M	216	50	265	335	165	44	190	84	28.009/27.996	60	8	24	31	7	4	143.0/142.5	13	290	360	12	485	54
KBM-310M	216	50	265	335	180	55	215	84	28.009/27.996	60	8	24	31	7	4	143.0/142.5	13	290	360	12	505	54
KBM-110M/313	216	50	265	335	220	55	255	84	32.009/31.996	60	8	24	31	7	4	143.0/142.5	13	356	400	12	555	54
KBM-113/315	240	54	280	410	190	60	255	130	38.018/38.002	80	10	33	41	8	5	180.0/179.5	13	356	404	15	605	70
KBM-115	279	60	340	410	181	65	219	124	48.018/48.002	110	14	42.5	51.5	9	5.5	180.0/179.5	16	356	480	15	670	100
KGA-105M/ 106M/308M	216	50	265	345	165	44	190	84	28.009/27.996	60	8	24	31	7	4	143.0/142.5	13	285	385	12	510	54
KGA-305M	216	50	265	345	130	44	156	84	28.009/27.996	60	8	24	31	7	4	143.0/142.5	13	285	385	12	470	54
KGA-108M/310M	216	50	265	345	180	44	215	84	28.009/27.996	60	8	24	31	7	4	143.0/142.5	13	285	385	12	530	54
KGA-110M	216	50	265	345	220	44	255	84	32.009/31.996	60	8	28	36	7	4	143.0/142.5	13	285	385	12	580	54
KGA-313M/315M	240	54	280	410	190	60	225	124	38.018/38.002	80	10	33	41	8	5	160.0/159.5	13	356	465	15	605	70
KGA-113M	240	54	280	410	190	80	225	124	38.018/38.002	80	10	33	41	8	5	180.0/179.5	13	356	465	15	605	70
KGA-115M/320	279	60	340	410	181	65	219	124	48.018/48.002	110	14	42.5	51.5	9	5.5	180.0/179.5	16	356	480	15	670	100
KGA-120M/325/ 330M	279	65	340	410	241	65	285	124	48.018/48.002	110	14	42.5	51.5	9	5.5	180.0/179.5	16	356	480	15	715	100
KGA-340M	318	65	380	485	267	75	314	140	55.030/55.011	110	16	49	59	10	6	200.0/199.5	16	395	515	19	760	100



KIRO GEN-A

ALTERNATORS



Features:

- Optimized auxillary winding give an excellent out put wave-form 7 reduce Harmonic level by 5%.
- Compact, light and sturdy Aluminum die cast stator frame.
- In-built terminal box Aluminum die cast stator frame design which reduce vibration & give better reliability.
- State of art electrical design, in which power drawn from stator result equal power in each phase with out distortion.
- Reduce costly parts replacement time & extent their life by optimizing load & compact design to slip ring & carbon brush.
- Single Diode designed for ease in maintenance and also diode bursting get reduce by minimized load.
- Sturdy cast iron end shields fixed on to the stator frame by 8.8 class high tensile screws.
- Axial airflow at non driving end for effective cooling which extends the winding life.
- Reliable long life with superior class 'H' insulation.
- The highest quality standards are applied throughout manufacture, resulting in smooth consistent operation.
- High motor starting capability.
- Short circuit maintenance capability.
- Positive voltage built-up even after a long idle period.
- High non-liner (thyristor) load with stand capability.
- Self exciting and self regulating with compounding excitation system.
- Compact design with high power-to-weight ratio.
- Aesthetically designed.
- Life long lubricated rubber Z sealed bearings.
- Excellent balanced design of rotating parts.
- Low noise level.
- Foot mounting available.
- Easy maintenance and spares availability.
- Adequate design to couple with tractor and other

belt driven applications.

Application:

Telecom, Railways, Airport, defence, domestic power supply, petrol bunks, hospital, hotel, restaurants, cinema, super market, offices, residential & commercial complexes, bank, showroom, computers, Construction sites, cold storages, rice mills, farm houses, processions, thyristor loads, portable power supplies, submersible pumps, A.C. Motors, lighting, industries, marine etc.

Specifications:

Output : Single Phase 5 to 20 kVA
 Three Phase 6.5 to 82.5 kVA
 Voltage : Single Phase 240 Volts
 Three Phase 415 Volts
 Voltage Regulation : ± 5 %
 Speed frequency : 1500 RPM / 50Hz
 Insulation Class : 'H'
 Ambient Temperature : 40°C
 Altitude : Upto 100m above mean sea level
 Duty : 'S1'
 Type of cooling : Fan Cooled

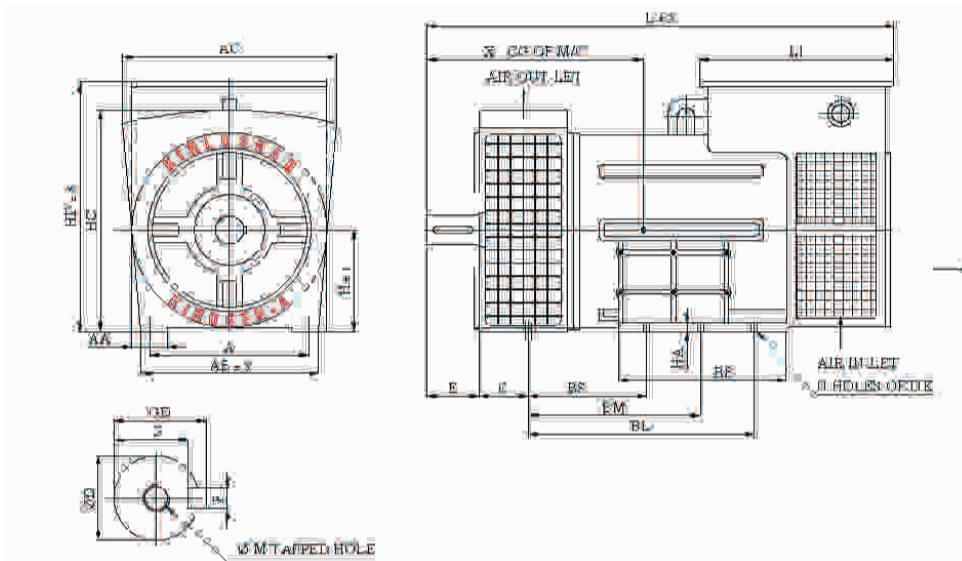
KBA Series (Single Phase) 230V, 50Hz, 1500 RPM, 0.8 PF

Model	Frame	Kva	Kw	Efficiency
KBA-105	K2S132MA	5	4	76
KBA-106	K2S132MC	6	4.8	78
KBA-108	K2S132MD	7.5	6	79
KBA-110	K2S132LC	10	8	80
KBA-113	K2S160SC	12.5	10	79.5
KBA-115	K2S160MA	15	12	80
KBA-120	K2S200SE	20	16	82

KBA Series (Three Phase) 415V, 50Hz, 1500 RPM, 0.8 PF

Model	Frame	Kva	Kw	Efficiency
KBA-307	K2S132MR	6.5	5.2	76
KBA-308	K2S132MA	7.5	6	79
KBA-310	K2S132MC	10	8	83.8
KBA-313	K2S132MD	12.5	10	84
KBA-315	K2S132LC	15	12	85
KBA-320	K2S160SC	20	16	85
KBA-325	K2S160MA	25	20	86
KBA-330	K2S160MB	30	24	87
KBA-333	K2S160MB	32.5	26	87.5
KBA-335	K2S160MB	35	28	88
KBA-340	K2S200SE	40	32	88
KBA-345	K2S200SB	45	36	89
KBA-350	K2S200SB	50	40	88.1
KBA-355	K2S200SD	55	44	89
KBA-363	K2S200SD	62.5	50	89.2
KBA-375	K2S200MD	75	60	90
KBA-383	K2S200MD	82.5	66	90.3

OUT LINE DRAWING OF KBA ALTERNATOR



DIMENSIONS in Millimeters

FRAME	A	AA	AB	AC	BB	BS	BM	BL	C	D	E	F	GD	G	H	HA	HC	HD	N	K	L	L1	M	X
KBA-307																								284
KBA-105/308										38.018														299
KBA-106/310	206	56	240	305	122	316	372	-	45	38.018	80	10	33.0	41.0	132.0	12	285	365	6	12	581	296	M12	322
KBA-108/313															131.5									339
KBA-110/315							371	427																344
KBA-113/320					196	197	292	-		48.018									6					360
KBA-115/325					306	197	307	402	66	48.018	110	14	42.5	51.5	160.0	16	323	418	8			300	M16	400
KBA-330/333/335										48.002			42.3	51.3	159.5						768			420
KBA-120/340					225	155	275	-											4					335
KBA-345/350										60.030														420
KBA-355/363	370	75	385	485	225	280	400	-	57	60.011	140	18	53.0	64.0	200.0	20	445	510	6	19	830	350	M20	450
KBA-375/383					325	270	380	500					52.0	63.8	199.5				8					520

KIRLOSKAR

Foot Valve

Screwed / Flanged



Features

- Foot valves are designed as per IS-10805 and are available in screwed and flange type construction.
- Designed to give an unrestricted flow of water to reduce the friction losses to a minimum.
- Body : Provided with screwed or flanged connection for piping.
- Strainer : Provided with cored slots with adequate straining area to reduce friction losses to minimum.
- Flap : Specially designed to give good sealing of water.

Applications

Foot valve is fitted at the bottom of suction pipe of pump. It retains water in the pump and suction pipe and also prevents entry of foreign body into the pump through the suction pipe.

Range

Size : 50mm to 150mm

Material of Constructions

Supply : Std.
 Housing : Cast Iron
 Strainer : Cast Iron
 Flap : Rubber

PUMP TROUBLES AND CARE

No	Symptoms	Possible cause of trouble (explanation of nos. given below)
1	Pump does not deliver water	1,2,3,4,6,11,14,16,17,22,23
2	Insufficient capacity delivered	2,3,4,5,6,7,8,9,10,11,14,17,20,22,23,29,30,31
3	Pump loses priming after starting	2,3,5,6,7,8,11,12,13
4	Pump requires excessive power	15,16,17,18,19,20,23,24,26,27,29,33,34,37
5	Stuffing box leaks successively	13,14,26,32,33,34,35,36,38,39,40
6	Packing has short life	11,13,24,26,28,32,33,34,35,38,39,40
7	Pump vibrates or is noisy	2,3,4,9,10,11,21,23,24,25,26,27,28
8	Insufficient pressure developed	5,14,16,17,20,22,29,30,31
9	Bearings have short life	24,26,27,28,35,36,41,42,43,44,45,46,47
10	Pump overheats and seizes	1,4,21,22,24,27,28,35,36,41

POSSIBLE CAUSES OF TROUBLES

Suction Troubles

- 1 Pump not primed
- 2 Pump or suction pipe not completely filled with liquid
- 3 Suction lift too high
- 4 Insufficient margin between suction pressure and vapour pressure i.e. insufficient available NPSH
- 5 Excessive amount of air or gas in liquid
- 6 Air pocket in suction line
- 7 Air leaks into suction line
- 8 Air leaks into pump through stuffing box
- 9 Foot valve too small
- 10 Foot valve partially clogged
- 11 Inlet of suction pipe insufficiently submerged
- 12 Water-seal pipe plugged

System Trouble

- 13 Sealage improperly located in stuffing box preventing sealing fluid entering space to form the seal
- 14 Speed too low
- 15 Speed too low
- 16 Wrong direction of rotation
- 17 Total head of system higher than design head of pumps
- 18 Total head of system lower than pump design head
- 19 Specific gravity of liquid different from design
- 20 Viscosity of liquid differs from that for which designed
- 21 Operation at very low capacity
- 22 Parallel operation of pumps unsuitable for such operation

Mechanical Troubles

- 23 Foreign materials in impeller
- 24 Misalignment
- 25 Foundation not rigid
- 26 Shaft bent
- 27 Rotating part rubbing or stationary part
- 28 Bearing worn
- 29 Wearing rings worn
- 30 Impeller damaged
- 31 Casting gasket defective permitting internals leakage
- 32 Shaft or shaft sleeves worn or scorched at the packing

- 33 Packing improperly installed
- 34 Incorrect types of packing's for operating Conditions
- 35 Shaft running off center because of worn bearings or misalignment
- 36 Rotor out of balance resulting in vibration
- 37 Gland too tight resulting in no flow of liquid to lubricate packing's
- 38 Failure to provide cooling liquid to water cooled stuff boxes
- 39 Excessive clearances at bottom of stuffing box between shaft and casings, causing packing to be forced into pump interior
- 40 Dirt or grit in sealing liquid, leading to scoring of shaft or shaft sleeve
- 41 Excessive thrust caused by a mechanical failure inside the pump or by the failure of the hydraulic balancing device, if any
- 42 Excessive grease or oil in antifriction bearing housing or lack of cooling causing excessive bearing temperature
- 43 Lack of lubrication
- 44 Improper installation of antifriction bearings (damage during assembly, incorrect assembly of stacked bearings, use of unmatched bearings as a pair, etc.)
- 45 Dirt getting into bearings
- 46 Rusting of bearings due to water getting into housing
- 47 Excessive cooling of water-cooled bearing resulting in condensation in the bearing housing of moisture from the atmosphere

After placing an order for the pump for certain head, capacity, liquid, NPSH characteristics. In order to get maximum service from it. Do not run the pump in any of the following prevails

- 1 Outside the recommendation range
- 2 Without lubricating the bearings with grease or oil, as the case may be
- 3 With liquid other than specified
- 4 With less NPSH than recommended
- 5 With delivery valve fully shut for longer period
- 6 When misaligned
- 7 Without lubricant to the stuffing box either external or internal
- 8 Unless periodically checked as suggested

OUR DOMESTIC PUMP RANGE

MINI FAMILY



ETERNA FAMILY



OTHER RANGES



Regional Offices

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