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ISO 9001 ISO 14001 OHSAS 18001 **BUREAU VERITAS** Certification



DOMESTIC PRODUCT RANGE





KIRLOSKAR BROTHERS LIMITED

DISTRIBUTION SECTOR

A HISTORY OF EXCELLENCE

Established in 1888 by the Late Shri Lakshmanrao Kirloskar, KBL stands as a monolith in the pump industry today. Our wings have spread to every nook and corner of the country - offering the widest range of products in the industry. In fact, KBL has evolved into an Indian multinational pump company with a subsidiary in the UK. Our 6 manufacturing facilities around India, located at Kirloskarwadi, Shirwal and Kondapuri in Maharashtra, Dewas in Madhya Pradesh, Coimbatore in Tamilnadu and Ahmedabad in Gujarat, manufacture pumps ranging from 0.25 to 16,000 HP for a wide array of applications.

We develop customer oriented solutions. So, whether it is heavy industry, small scale industry or a specific project, at KBL you will always find pumps, motors and valves which suit your needs best. Needless to say, all KBL products are meticulously designed and engineered to exacting quality standards, and then tested to the maximum limits and beyond, to ensure that they meet the all-encompassing goal of energy efficiency. Because, 'Energy saved is energy produced' has always been our guiding principle at KBL.

At KBL, it is our constant endeavour to provide customers the best in quality and price. To this end, we leave no stone unturned in our quest to ensure customers are more than just delighted with every KBL product they buy.



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DOMESTIC PRODUCT RANGE











POPULAR LV







V FLOW

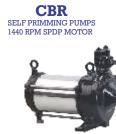
Deep-well Jet Pumps













Openwell Submersible Pumps











CHHOTU PUMPS

KOS M Openwell Submersible Pumps





















CMS SELF PRIMMING PUMPS 1440 RPM SERIES

















NEW LIFTER SERIES PUMP







- Aluminum extruded motor body for better heat dissipation and corrosion resistance
- Motor can withstand wide voltage fluctuation from 180 240 Volts
- Capable of priming up to 3 meters static suction lift without foot valve, at rated head and discharge (IS 8472:1998)
- Fitted with Thermal Overload Protector (TOP) preventing motor burn out at lower voltage
- Totally enclosed fan cooled (TEFC) no entry of dust moisture
- Capacitor starts and runs motor with IP-44 protection
- 'B' class of insulation
- Capacitor inside terminal box
- Double shielded ball bearing needs no external lubrication

Applications

• Water supply for domestic use in Bungalows, Hospitals, Garages, Industries, Small Fountains, Solar Heating Systems etc.

Material of Construction

mpeller : High Tensile Brass

Delivery Casing : Cast Iron Mounting Casing : Cast Iron Motor Body : Aluminum.

Shaft : Carbon Steel (Chrome Plated)

Technical Specifications

Head : 3 to 15 meters
Capacity : 1600 to 600 LPH
Power Rating : 0.18 Kw (0.25 HP)
Voltage Range : 180 to 240 Volts

PERFORMANCE	UNDE	R STAN	DARD T	EST C	ONDITIONS						
PUMP	POV RAT		PIPE (m		FULL LOAD CURRENT (in amps.)	RATED VOLTAGE (Volts)	ТС	OTAL H	EAD IN	METF	RES
MODEL	kW	HP	SUC.	DEL.	(iii aitips.)	(VOIIS)	3	6	9	12	15
	200		500.				DISCH	IARGE I	N LITR	ES PER	HOUR
TINY	0.18	0.25	19	19	2	230	1600	1300	1100	800	600

JALRAAJ PUMPS SERIES

Features

- It is capable of priming up to 3 meters static suction lift without a foot valve, at rated head & discharge
- Thermal Overload Protector (TOP) for safety of Motor.
- 'B' class of Insulation.
- Motor can withstand with wide voltage fluctuation from 180-240Volts.
- Light weight pump for easy handling
- Capacitor inside terminal box.
- TEFC capacitor starts and run motor

Material of Construction

Impeller : Brass
Pump shaft : Carbon steel

Delivery Casing : Cast Iron
Mounting Casing : Cast Iron
Motor Body : Extruded Aluminum

Cover NDE : Aluminum

Mechanical Seal : Carbon Ceramic

Application

- Water supply for domestic use in Bungalows, Apartments, Hotels, Farmhouses etc.
- Useful in home pressure booster systems, lawn sprinklers, overhead tanks and watering for gardens.

Technical specification

Head : 3-42 m

Capacity : 3300-250lph Power Rating : 0.37 Kw / 0.5 HP to

0.75 Kw / 1.0 HP

Voltage Range : 180 to 240 Volts

(1Phase)



PERFORMA	NCE U	NDER S	TANDA	ARD TE	ST CONDIT	IONS										
PUMP	POV RAT	WER ING		SIZE m)	FULL LOAD	RATED VOLTAGE				TOTAL	L HEAD	IN ME	ETRES			
MODEL	kW	HP	SUC	DEL	CURRENT (in amps.)	(Volts)	6	10	14	18	22	26	30	34	38	42
					` - '				DIS	CHARC	E IN L	ITRES I	PER HC	UR		
JALRAAJ	0.37	0.5	25	25	2.0	220	2120	1820	1550	1260	950	660	360			
JALRAAJ-1	0.75	1.02	25	25	4.0	220	3280	2970	2650	2300	1980	1660	1300	970	612	250
JALRAAJ-2	0.75	1.02	25	25	4.5	230	3300	2700	2380	2120	1870	1620	1400	1116	854	504

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

 $\mathsf{5}$

- Can withstand wide voltage fluctuation from 180 to 240 volts
- Self priming up to 3 metres
- Thermal overload protector (TOP) prevents motor burning
- Stainless steel shaft to avoid
- Locked impeller results in consistent performance
- for better heat dissipation and corrosion resistance
- TEFC capacitor start and run motor, with IP-44 protection and class 'B' insulation
- Double shielded ball bearing no need for external lubrication Capacitor inside terminal box

- rusting problems
- - **Technical Specifications**
 - Capacity

Applications

- Water supply for bungalows, apartments, hotels, hospitals, farmhouses etc.
- Useful for home pressure booster systems, lawn sprinklers, overhead tanks and watering gardens

Material of Construction

Forged Brass Impeller Delivery Casing Cast Iron Aluminium Mounting Casing Cast Iron Carbon Steel

6 to 24 metres 2250 to 400 LPH Power Rating 0.37 kW (0.5 HP) 180 to 240 Volts Voltage Range



POWER PIPE SIZE	PERFORMANCE UNDER STANDARD TEST CONDITIONS												
PUMP RATING (mm) FULL LOAD RATEI CURRENT VOLTAGE													
MODEL (in amps.) (Volts)													
kW HP SUC. DEL.	DISCHARGE IN LITRES PER HOUR												
PEARL 0.37 0.5 25 25 3.4 220	2250 1872 1440 1044 600 400												

Note: Performance applicable in cases of liquid with specific gravity 1 and viscosity as of water.

DOMESTIC PUMP



Features

- suction lift without foot valve, at rated head and discharge
- Thermal Overload Protector (TOP) for safety of motor
- 'B' class of insulation
- Motor can withstand wide voltage fluctuation from 100 - 180 Volts
- Lightweight pump for easy handling
- Capacitor inside terminal box
- TEFC capacitor start and run motor

Material of Construction

Impeller Brass Carbon steel Pump shaft Delivery Casing Cast Iron

Mounting Casing Cast Iron Extruded Aluminum Motor Body

Cover NDE Aluminum Mechanical Seal Carbon Ceramic

Application

- Capable of priming up to 3 meters static Water supply for domestic use in Bungalows, Apartments, Hotels, Farmhouses etc.
 - Useful in home pressure booster systems, lawn sprinklers, overhead tanks and watering for gardens.

Technical specification

6-28 m 2700 - 450 lph Capacity : 0.5 HP Power Rating



PERFORMANO	CE UND	ER STA	NDARI	O TEST	CONDITIONS						
PUMP		WER ING	SI	PE ZE m)	FULL LOAD CURRENT	RATED VOLTAGE		TOTAL	HEAD IN M	IETRES	
MODEL	kW	HP	SUC	DEL	(in amps.)	(Volts)	6	12	18	24	28
								DISCHARGI	E IN LITRES	PER HOUR	
POPULAR LV	0.37	0.5	25	25	2.6	180	2700	1700	864	550	450

WONDER III

Features

- Can withstand wide voltage fluctuation from 180 to 240 volts
- Self priming up to 3 meters
- Aluminum extruded motor body • Top mounted, big terminal box
- Capacitor inside terminal box
- Fitted with thermal overload protector (TOP) for long life

Applications

 Water supply in bungalows, apartments, hotels, hospitals, farmhouses etc.

Material of Construction

: Forged Brass Impeller Delivery Casing : Cast Iron Motor Body : Aluminum

Technical Specifications

Head : 6 to 28 meters Discharge : 1930 to 325 LPH : 0.37 kW / 0.5 HP Power rating : 25 x 25 Suc. & Del. Pipe Size : 180 to 240 Volts Voltage Range



	PERFORMANCE	UNDE	R STAN	DARD '	rest c	ONDITIONS									
	PUMP MODEL	POV RAT		PIPE (m	SIZE m)	FULL LOAD CURRENT	RATED VOLTAGE			TOTA	L HEAI	O IN M	ETRES		
		kW	HP	SUC.	DEL.	(in amps.)	(Volts)	6	9	12	15	18	21	24	28
		KVV	mr	300.	DEL.				DISC	CHARC	E IN L	TRES I	PER HO	OUR	
	WONDER III	0.37	0.5	25	25	3.4	210	1930	1705	1480	1260	1048	835	618	325



Features

Can withstand wide voltage fluctuations,

Thermal Overload Protector (TOP) prevents

Stainless steel shaft avoids rusting problems

Locked impeller results in consistent

High quality aluminium extruded motor body

 TEFC capacitor start and run motor, with IP-44 protection and class 'B' insulation

• Single phase and three phase options

from 180 to 240 volts Self priming up to 3 metres

motor burning out

external lubrication

Capacitor inside terminal box

performance

available



Material of Construction

Impeller Forged Brass Delivery Casing : Cast Iron Motor Body : Cast Iron Plastic Fan Cover Mounting Casing: Cast Iron Carbon Steel (Chrome Plated)

Applications

• Useful in home pressure booster systems, lawn sprinklers, overhead tanks and watering gardens

Head 6 to 28 metres Double shielded ball bearing - no need for Capacity 3150 to 720 LPH : 0.37 kW (0.5 HP) Power Rating

- three phase

PUMP MODEL	POV RAT	VER	1	PE ZE m)	FULL CURI (in ar	RENT	RAT VOLT				TOTAL I	EAD IN	METRES	5	
	kW	HP	SUC	DEL	lø	3 Ø	l ø	3 Ø	6	10	14	18	22	26	28
									DISCHARGE IN LITRES PER HOUR						
MINI - 28S	0.37	0.5	25	25	3.4	1.3	210	415	3150	2745	2295	1845	1440	990	720

 Water supply for bungalows, apartments, hotels, hospitals, farmhouses etc.

Technical Specifications

Voltage Range : 180 to 240 Volts - single phase, and 300 to 440 Volts





- Motor can withstand wide voltage fluctuations from 180 to 240 Volts
- Self priming up to 3 meters
- Fitted with thermal overload protector (TOP) to prevent motor burning out in cases of high voltage drops
- Totally Enclosed Fan Cooled (TEFC) motor
- Capacitor start and run motor with IP-44 protection
- Class B insulation
- Capacitor inside terminal box
- Double shielded ball bearing needs no Bungalows external lubrication

Material of Construction

: Brass HTB2 Impeller Delivery Casing : Cast Iron

: 0.5 HP - Aluminum Die Cast Motor Body

1.0 HP - Aluminum Extruded Die Cast

Shaft : Carbon steel

Applications

- Hospitals
- Industries Garages
- Small fountains Solar heating systems

Technical Specifications

:6 to 40 m Head Range Discharge range : 3200 to 750 LPH Power rating : 0.37 and 0.75 kW/

0.5 and 1.0 HP : 180 to 240 V Voltage range

PERFORMANO	CE UND	ER STA	NDARI	D TEST	CONDITIONS					
PUMP		WER ING	SI	PE ZE ım)	FULL LOAD CURRENT	RATED VOLTAGE		TOTAL HEAL	O IN METRES	
MODEL	kW	HP	SUC	DEL	(in amps.)	(Volts)	6	18	26	30
							DIS	CHARGE IN L	TRES PER HO	UR
Twinkle-1.0	0.75	1.0	25	25	4.5	230	3159	2215	1286	0

Note: Performance applicable in cases of liquid with specific gravity 1 and viscosity as of water.



- Can withstand wide voltage fluctuations from 180 to 255
- Self priming with lift up to 3
- Thermal Overload Protector (TOP) - prevents motor burning out
- High quality aluminium extruded motor body with chrome plated shaft
- TEFC capacitor start and run motor with IP-44 protection and class 'B' insulation
- Double shielded ball bearings - no need for external lubrication
- Lightweight pump for easy handling
- Easy maintenance and spares availability

Material of Construction (Standard Supply)

Impeller Bronze Delivery Casing Cast Iron Aluminium Motor Body Mounting Casing Cast Iron Carbon Steel (Chrome Plated)

Applications

- Water supply for domestic use in bungalows, apartments, hotels, hospitals, farmhouses etc.
- Useful in home pressure booster systems, lawn sprinklers, overhead tanks and watering gardens
- Circulation of water in industries

Technical Specifications

6 to 28 metres 2700 to 450 LPH Capacity : 0.37 kW (0.50 HP) Power Rating 180 to 255 Volts Voltage Range



PERFORMANC	E UNDI	ER STAN	IDARD '	TEST CO	ONDITIONS									
PUMP		WER 'ING		SIZE nm)	FULL LOAD CURRENT	RATED VOLTAGE		7	OTAL H	IEAD IN	METRE	S		
MODEL	kW	HP	SUC.	DEL.	(in amps.)	(Volts)	6	10	14	18	22	24	28	
DISCHAF							HARGE I	N LITRE	ES PER I	HOUR		9		
STAR*	0.37	0.5	25	25	2.6	240	2700	2250	1890	1460	1080	600	450	

Note: Performance applicable in cases of liquid with specific gravity 1 and viscosity as of water. *Star available in Non Self Priming model also.



- Suction lift self priming
- Discharge up to 3150 litres per hour
- Total head of 30 metres
- Thermal Overload Protector (TOP) prevents motor burning out
- Motor with IP-44 protection and class 'B' insulation
- Can withstand wide voltage fluctuation from 180 to 240 Volts
- Lightweight pump for easy handling
- Capacitor inside terminal box
- Motor is Totally Enclosed Fan Cooled (TEFC)



- · Water supply for domestic use in bungalows, apartments, hotels, hospitals, farmhouses etc.
- Useful in home pressure booster systems, lawn sprinklers, overhead tanks and watering gardens

Technical Specifications

: 0.37 kW (0.5 HP) Power Rating Head Range : 6 to 30 metres Discharge Range : 3150 to 600 LPH : 180 to 240 Volts Voltage Range

PERFORMANO	CE UND	ER STAN	NDARD TEST (CONDITIONS								
PUMP MODEL		WER ING	PIPE SIZE	FULL LOAD	RATED VOLTAGE			TOTAL I	HEAD IN	METRES		
	kW	HP	(mm)	(in amps.)	(Volts)	6	10	15	20	25	28	30
							CA	PACITY I	N LITRES	S PER HC	UR	
SUPERSTAR	0.37	0.5	25x25	3.4	230	3150	2680	2160	1650	1250	880	600

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



CMS

SELF PRIMMING PUMPS 1440 RPM SERIES



eatures

- Self-priming up to 3.0 meters at mean seal level.
- Motor can withstand with wide voltage fluctuation from 180-240Volts
- Unique Motor design-TEFC capacitor Start & run motor Eliminating centrifugal Switch.
- 'B' class of insulation.
- Fitted with high quality & long life mechanical seal.
- Fitted with Thermal Overload Protector (TOP) for safety of Motor.
- Both Side Shielded ball bearing, no need of external lubrication.
- Sturdy & rigid construction.
- Pump casing made of closed grains cast iron of high tensile strength and has a very smooth surface finish resulting in low friction losses.
- Brass impeller is used to give trouble free servicesz

Material of Construction (Standard Supply)

peller : Brass

Pump shaft : Carbon steel
Delivery Casing : Cast Iron
Mounting casing : Cast Iron
Motor Body : Cast Iron
Cover NDE : Cast Iron
Mechanical seal : Carbon ceramic

Applications

- Water supply for domestic use in Bungalows,
 Apartments, Hotels, Farmhouses etc.
- Useful in home pressure booster systems, lawn sprinklers, overhead tanks and watering for gardens.

Technical Specifications

Head : 10 to 38 meters

Capacity : 2570 to 500 LPH

Power Rating : 0.37 Kw/ 0.5 HP to

0.75 Kw/ 1.0 HP

Voltage Range : 180 to 240 Volts (1 phase)

PERFOR	VIAIVC	E OM	DEK 2.1	I'ANDA	KD TEST CO	SMOLLIONS									
PUMP		WER	PIPE (m	SIZE m)	FULL LOAD	RATED VOLTAGE				TOTAL I	HEAD IN	METRES	S		
MODEL	kW	HP	SUC.	DEL.	CURRENT (in amps.)	(Volts)	6	10	14	18	22	26	30	34	38
									CAI	PACITY I	N LITRE	S PER H	OUR		
CMS525	0.37	0.5	25	25	4.5	240		2236	2052	1782	1449	1026	522		
CMS140	0.75	1.0	25	25	6.5	240		2570	2520	2410	2270	2020	1580	1000	500

Note: Performance applicable in cases of liquid of specific gravity 1 and viscosity as of water

5



- Capable of priming up to 3 meters static suction lift without foot valve, at rated head and discharge (IS 8472:1998)
- Thermal Overload Protector (TOP) for safety of motor
- 'B' class of insulation
- Motor can withstand wide voltage fluctuation from 180 - 240 Volts
- Lightweight pump for easy handling
- Capacitor inside terminal box.
- TEFC capacitor starts and runs motor

Material of Construction

Impeller Brass Pump shaft Carbon steel Delivery Casing Cast Iron Mounting Casing : Cast Iron

Extruded Aluminum Cover NDE Aluminum Mechanical Seal : Carbon Ceramic

Application

- Water supply for domestic use in Bungalows, Apartments, Hotels, Farm-houses etc.
- Useful in home pressure booster systems lawn sprinklers, overhead tanks and watering for gardens

Technical specifications

: 6 to 28 meters Capacity 3000 to 500 LPH Power Rating : 0.75 Kw (1.0 HP) : 180 to 240 Volts

TOTAL HEAD IN METRES kW HP SUC DEL (in amps.) 6 10 15 20 25 28 DISCHARGE IN LITRES PER HOUR 230 3000 2680 2160 1650 1250 500

CRYSTAL

- Motor can withstand wide voltage fluctuation from 180 - 240Volts
- Capable of priming up to 3 meters static suction lift without foot valve, at rated head and discharge (IS 8472:1998)
- Thermal Overload Protector (TOP) for safety of motor
- TEFC capacitor starts and runs motor
- 'B' class of insulation

Features

- Capacitor inside terminal box
- Double shielded ball bearing- needs no external lubrication
- Lightweight pump for easy handling

Material of Construction

Impeller Brass : Carbon Steel Pump shaft

Delivery Casing : Cast Iron Mounting Casing : Cast Iron

Motor Body Extruded Aluminum

die cast Cast Iron

Application

Cover NDE

• Water supply for domestic use in bungalows, hospitals, garages, industries, small fountains, solar heating systems etc.

Technical specifications

: 6 to 28 meters : 3200 to 650 LPH Capacity Power Rating : 0.75 Kw (1.0HP) : 180 to 240 Volts Voltage Range

PERFORMAN	CIND	EK 214	INDAKI	ופשו ר	CONDITIONS							
PUMP	POV RAT	WER ING	SI	PE ZE ım)	FULL LOAD CURRENT	RATED VOLTAGE		TO	TAL HEAI	O IN METI	RES	
MODEL	MODEL kW HP		SUC	DEL	(in amps.)	(Volts)	6	10	14	18	22	28
								DISCHA	RGE IN LI	TRES PE	RHOUR	
Crystal	0.75	1.0	25	25	4.5	230	3200	2250	1890	1460	1080	650

- Total head 40 metres
- Self priming up to 3 metres
- Can withstand wide voltage fluctuations from 180 to 240 Volts
- Thermal Overload Protector (TOP), protects motor from burning out
- Chrome plated shaft to avoid rust problems
- Motor with IP-44 protection and class 'B' insulation
- Shielded ball bearings no need for external lubrication
- Lightweight pump for easy handling
- Available in single and three phase options

Material of Construction

Impeller H. T. Brass : Cast Iron Delivery Casing Motor Body Aluminium Carbon Steel (Chrome Plated)

Applications

- Water supply for domestic use in bungalows, apartments, hotels, hospitals, farmhouses
- Useful in home pressure booster systems, lawn sprinklers, overhead tanks and watering gardens

Technical Specifications

Head 10 to 40 metres 3000 to 200 LPH Capacity : 0.75 kW (1.0 HP) Power Rating Voltage Range

: 180 to 240 Volts - single phase, and 300 to 440 Volts

- three phase

FULL LOAD RATED CURRENT VOLTAGE TOTAL HEAD IN METRES RATING (in amps.) (Volts) kW HP SUC DEL 10 30 10 30 10 14 18 22 26 28 30 35 40 DISCHARGE IN LITRES PER HOUR MINI 40S | 0.75 | 1.0 | 25 | 25 | 4.5 | 1.8 | 230 | 415 | 3000 | 2600 | 2250 | 1980 | 1530 | 1300 | 1200 | 650 | 200

Note: Performance applicable in cases of liquid of specific gravity 1 and viscosity as of water. Models available in Three Phase also

MINI 40S



Features

- Can withstand wide voltage fluctuations from 180 to 240 Volts
- Self priming up to 3 metres
- Thermal Overload Protector (TOP), protects the motor from burning out
- Chrome plated shaft to avoid rust problem
- Motor with IP-44 protection and class 'B' insulation
- Shielded ball bearings no need for external lubrication
- Capacitor inside terminal box
- Available in single as well as three phase

Material of Construction

H. T. Brass Cast Iron Delivery Casing Motor Body Cast Iron Carbon Steel (Chrome Plated)

Technical Specifications

10 to 50 metres Head 3200 to 400 LPH Capacity Power Rating 0.75 kW (1.0 HP) Voltage Range

single phase, 300 to 440 Voltsthree phase

Applications

- Water supply for domestic use in bungalows, apartments, hotels, hospitals, farmhouses etc.
- Useful in home pressure booster systems, lawn sprinklers, overhead tanks and watering gardens

180 to 240 Volts-

MINI 50S

RFORM	ANCE	UND	ER ST	'AND	ARD T	EST C	OND	ITION	S											
UMP ODEL	POV RAT		PII SII		FU LO CURI (in ar	AD RENT	VOL	ED TAGE lts)					TOT	AL HEA	ID IN I	ÆTRE:	5			
ODLI	kW	HP	SUC	DEL	l ø	3 Ø	l ø	3 Ø	6	10	14	18	22	26	30	34	38	42	46	50
												DI	SCHAR	GE IN	LITRES	PER I	IOUR			
NI 50S	0.75	1.02	25	25	6.5	2.0	230	415	3730	3430	3130	2860	2620	2380	2160	1920	1670	1380	1080	780

MEGA 54S

SINGLE PHASE MONOBLOC PUMPS

Features

- Designed for better performance in domestic applications
- Can withstand wide voltage fluctuations from 180 to 240 Volts
- High suction lift up to 3 metres
- Thermal Overload Protector (TOP) prevents motor burning out
- High quality aluminium extruded motor body with chrome plated shaft
- TEFC capacitor start and run motor with IP-44 protection and class 'B' insulation
- Capacitor inside terminal box

Material of Construction

Impeller : Brass

Pump Shaft : Carbon - Steel (chrome plated)

Delivery Casing : Cast Iron

Mounting Casing : Cast Iron

Motor Body : Aluminium

Cover NDE : Cast Iron

Mechanical Seal : Carbon Ceramic

Applications

- Water supply for domestic use in bungalows, apartments, hotels, hospitals, formbourses.
- Useful in home pressure booster systems, lawn sprinklers, overhead tanks and watering gardens
- Circulation of water in industries

Technical Specifications

Power Rating : 1.1 kW (1.5 HP) Head Range : 10 to 52 metres Discharge Range : 3960 to 360 LPH

Voltage Range : 180 to 240 Volts - single phase, 300 to 440 Volts - three phase

	PERFORM	ANCE	UNE	ER STAND	ARD T	EST C	OND	ITION	S					
	PUMP MODEL		WER ING	PIPE SIZE	FULL CURI (in ar	RENT	VOL	FED FAGE olts)			TOTAL HEAI	O IN METRES	S	
	MODEL	kW	HP	SUC DEL	l ø	3 Ø	1ø	3Ø	10	20	32	41	47	52
										DISC	HARGE IN L	ITRES PER H	IOUR	
1	MEGA 54S	1.1	1.5	25X25	8.8	2.8	210	415	3960	3240	2520	1800	1080	360

Note: Performance applicable in cases of liquid with specific gravity 1 and viscosity as of water.





- Water supply for use in bungalows, apartments, hotels, farmhouses etc.
- Useful in home pressure booster systems, lawn sprinklers, overhead tanks and Mounting Casing: Cast Iron watering gardens

Motor Body Extruded Aluminum Cover NDE : Cast Iron

: Cast Iron Delivery Casing

THUNDER

Features

- Motors can withstand wide voltage fluctuations from 180 to 240 Volts
- Self priming up to 3 meters
- Thermal Overload Protector (TOP) for motor
- Ball bearings on both sides are double shielded - no need for external lubrication through entire life cycle
- TEFC capacitor start and run motor
- Class 'B' insulation.
- Fitted with high quality ceramic Vs carbon
- Aluminum extruded motor body for better heat dissipation and corrosion resistance
- Powder coated casting parts for longer life

FORM	IANCE UN	DER STANI	DARD TEST	CONDITIO	ONS

PUMP IODEL		WER ING	PII SIZ (m:	ΖE	FULL LOAD CURRENT	RATED VOLTAGE			TOTA	L HEAI	O IN ME	ETRES			
	kW	HP	SUC	DEL	(in amps.)	(Volts)	6	9	12	15	18	21	24	28	
								DIS	CHARC	E IN L	ITRES I	PER HC	UR		
AVE	0.37	0.5	25	25	3.4	220	1930	1705	1480	1260	1048	835	618	325	
HUNDER	0.37	0.5	25	25	3.4	220	2520	2250	1980	1720	1475	1230	1005	720	F

PERFORM	IANC.	E UN	DER S	TANL	DARD TEST	CONDITIC	ONS								
PUMP MODEL		WER ING	PII SIZ (mi	ZE m)	CURRENT	RATED VOLTAGE (VOLTS)			TO!	TAL HE	EAD IN	METI	RES		
	kW	HP	SUC	DEL	(in amps.)	(VOLIS)	10	14	18	22	26	28	30	35	40
					` - ′			DI	SCHA	RGE II	V LITR	ES PE	R HOU	R	
POPULAR	0.75	1.0	25	25	4.5	220	3000	2600	2250	1980	1530	1300	1200	650	200

WAVE, THUNDER &

POPULAR SERIES



H.T. Brass

Extruded Aluminum Carbon Steel

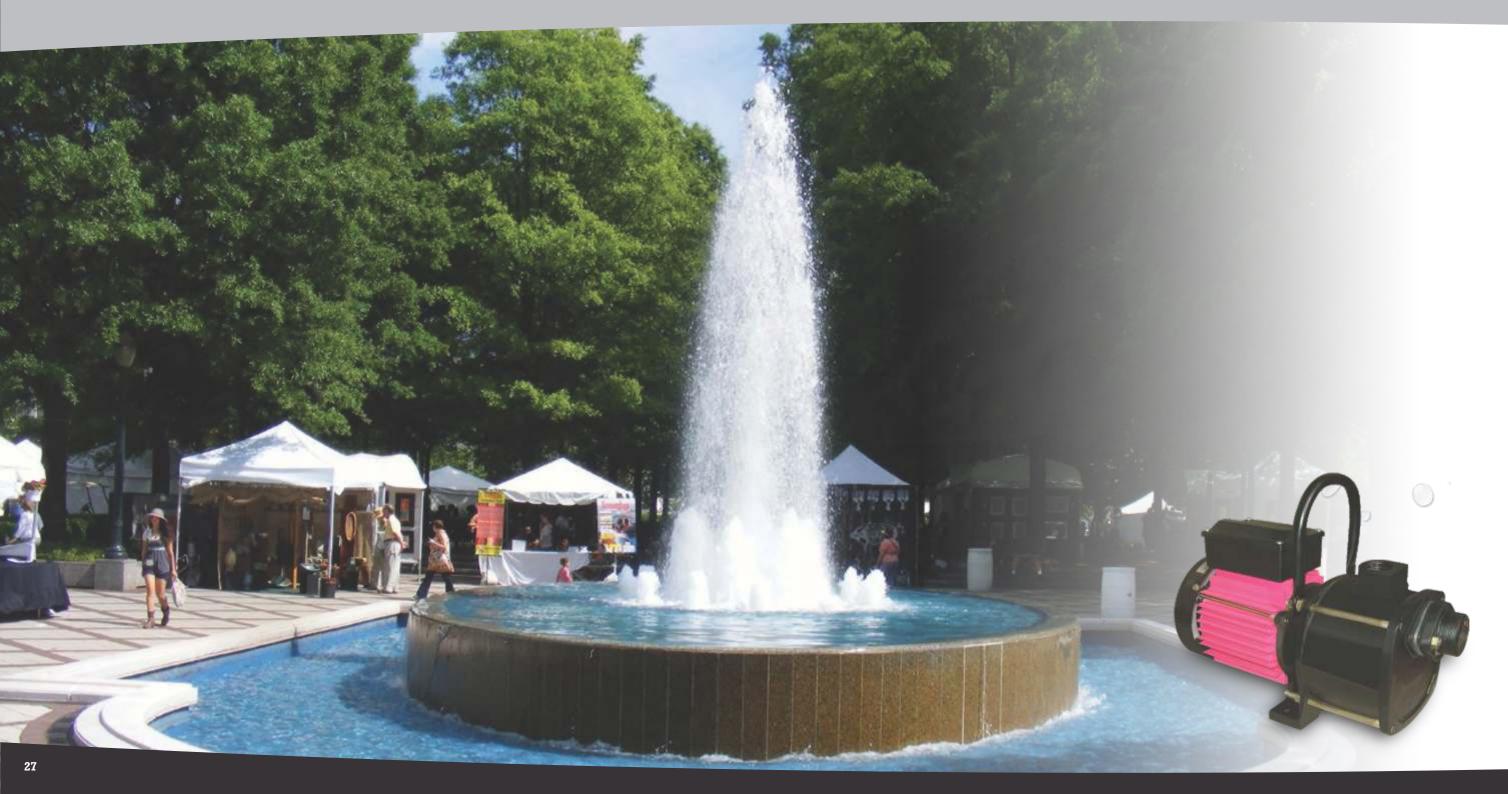
(Chrome Plated) Aluminum (Aqua -50,

Agua - 60, Agua - 100)

Cast Iron (Agua - 150)

- apartments, hotels, farmhouses etc.
- Useful in home pressure booster systems, lawn sprinklers, overhead tanks and
- Circulation of water in industries

3 to 41 meters 3200 to 360 LPH : 0.37 to 1.1 Kw : 180 to 240 Volts



LIFTER SERIES PUMPS

Features

- Suitable for high head application
- Capable of priming up to 3 meters static suction lift without foot valve, at rated head and discharge (IS 8472:1998)
- Designed for high efficiency over a wide range of operations
- Fitted with Thermal Overload
 Protector

(TOP) to prevent motor burning out

- Motor can withstand wide voltage fluctuations from 180 - 240 Volts.
- Non-overloading power characteristics
- Provided with handle for ease of handling

Applications

- Water supply for domestic use in bungalows, apartments, hotels, farmhouses etc.
- Sump and water tanks.

Material of Construction

Impeller : Noryl (LIFTER -50)
Impeller : Cast Iron (LIFTER -60,

LIFTER -100, LIFTER -150)
Shaft : Carbon Steel
Motor Body : Extruded Aluminum

Delivery Casing: Cast Iron

Cover NDE : Aluminum (LIFTER -5

Cover NDE : Aluminum (LIFTER -50, LIFTER -60, LIFTER -100)

Cover NDE : Cast Iron (LIFTER -150)

Technical Specifications

Head : 8 to 36 meters

Capacity : 2600 to 1080 LPH

Power Rating : 0.37 to 1.1 Kw

Voltage Range : 180 to 240 Volts

PERFORM	ANCE	UNE	ER ST	'AND	ARD TEST C	ONDITION	S													
PUMP		WER ING		PE ZE m)	FULL LOAD	RATED VOLTAGE						TOT	'AL HEAI	O IN ME	TRES					
MODEL	MODEL RW HP SUC DEL (IN An						8	10	12	16	20	22	24	26	28	30	32	34	35	36
					(HV7Hitps.						DI	SCHARG	E IN LIT	RES PER	SECON	DS				
LIFTER - 50	0.37	0.5	25	25	2.8	220		2300	2170	1755	1050	500								
LIFTER - 60	0.37	0.5	25	25	3.4	220	2600	2520	2460	2290	2070	1900	1750	1590	1110	600				
LIFTER - 100	0.75	1	25	25	5.5	220						2700	2500	2260	2050	1800	1440	1000	810	630
LIFTER - 150	1.1	1.5	25	25	5.5	220								2500	2340	2070	1710	1440	1250	1080



- Self-priming up to 3.0 meters at mean seal level.
- Motor can withstand with wide voltage fluctuation from 180-240Volts
- Unique Motor design- capacitor Start & run, Eliminating centrifugal Switch.
- 'B' class of insulation.
- Specially processed steel shaft for corrosion resistance & durability.
- Fitted with high quality & long life mechanical seal.
- Fitted with Thermal Overload Protector (TOP) for safety of Motor.
- Both Side Shielded ball bearing, no need of external lubrication.
- Sturdy & rigid construction.
- Pump casing made of closed grains cast iron of high tensile strength and has a very smooth surface finish resulting in low friction losses.
- Brass impeller is used to give trouble free services

Material of Construction

(Standard Supply)

peller : Brass

Pump shaft : Carbon steel
Delivery Casing : Cast Iron

Mounting casing : Cast Iron

Motor Body : Aluminum

Cover NDE : Cast Iron

Mechanical seal : Carbon ceramic

Applications

- Water supply for domestic use in Bungalows, Apartments, Hotels, Farmhouses etc.
- Useful in home pressure booster systems, lawn sprinklers, overhead tanks and watering for gardens.

Technical Specifications

Head : 5 to 50 Meters
Capacity : 2560 to 140 LPH

Power Rating : 0.37 Kw/ 0.5 HP to 0.75 Kw/ 1.0 HP

Voltage Range : 180 to 240 Volts (1 phase)

FOR	MANC	CE UN	IDER S	STAN:	DARD TES'	T CONDIT	IONS											
MP DEL	POV RAT		PII SII (m	ZE m)	FULL LOAD	RATED			Т	'OTAL I	IEAD IN	I METR	ES					
ЛЕП	kW	HP	SUC	DEL		VOLTAGE	6	10	14	18	22	26	30	34	38	42	46	50
					(IN Amps.				DISC	HARGE	IN LITE	ES PER	HOUR					
ow	0.37	0.5	25	25	4.5	240		2439	2250	2043	1773	1457	1134	729				
ow 1	0.75	1.0	25	25	7.6	240	2560	2520	2420	2260	2060	1840	1620	1380	1140	860	580	140

Note: Performance applicable in cases of liquid of specific gravity $\boldsymbol{1}$ and viscosity as of water.



- Special Motor design can work on UPS
- It is capable of priming up to 3meters static suction lift without a foot valve, at rated head & discharge
- 'B' class of Insulation.
- Motor can withstand with wide voltage fluctuation from 180-240Volts.
- Light weight pump for easy handling
- Capacitor inside terminal box.
- TEFC capacitor starts and run motor

Material of Construction

(Standard Supply)

Impeller : Brass

Pump shaft : Carbon steel
Delivery Casing : Cast Iron
Mounting casing : Cast Iron

Motor Body : Extruded Aluminum
Cover NDE : Aluminum

Cover NDE : Aluminum

Mechanical Seal : Carbon Ceramic

Applications

- Water supply for domestic use in Bungalows, Apartments, Hotels, Farmhouses etc.
- Useful in home pressure booster systems, lawn sprinklers, overhead tanks and watering for gardens.

Technical Specifications

Head : 6 to 26 Meters
Capacity : 1980 to 360 LPH
Power Rating : 0.37 Kw / 0.5 HP
Voltage Range : 180 to 240 Volts
(1Phase)

PERFORM	ANCE	UND	ER ST	'AND	ARD TEST C	ONDITIONS	S					
PUMP MODEL	POW RATI		SI	PE ZE m)	FULL LOAD			Т	OTAL HEAL	O IN METRE	ES	
MODEL	kW	HP	SUC	DEL	(IN Amps.	VOLIAGE	6	10	14	18	22	26
					(IIV Allips.			DISCI	IARGE IN L	ITRES PER	HOUR	
Chhotu	0.37	0.5	25	25	2.0	220	1980	1620	1296	1008	702	360

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





- Self-priming up to 3.0 meters at mean seal level.
- Motor can withstand with wide voltage fluctuation from 180-240Volts
- Unique Motor design- SPDP capacitor Start & run motor with centrifugal Switch.
- 'B' class of insulation.
- Fitted with high quality & long life mechanical seal.
- Fitted with Thermal Overload Protector (TOP) for safety of Motor.
- Both Side Shielded ball bearing, no need of external lubrication.
- Sturdy & rigid construction.
- Pump casing made of closed grains cast iron of high tensile strength and has a very smooth surface finish resulting in low friction losses.
- Brass impeller is used to give trouble free services

Material of Construction

(Standard Supply)

Impeller Brass : S.S. Pump shaft Delivery Casing : Cast Iron Mounting casing : Cast Iron : M.S. Motor Body Cast Iron Cover NDE Mechanical seal : Carbon ceramic

Applications

- Water supply for domestic use in Bungalows, Apartments, Hotels, Farmhouses etc.
- Useful in home pressure booster systems, lawn sprinklers, overhead tanks and watering for gardens.

Technical Specifications

6 to 42 Meters 3348 to 432 LPH Power Rating : 0.75 Kw/ 1.0 HP

Voltage Range : 180 to 240 Volts (1 phase)

PERFORM	ANCE	UNI	ER ST	'AND	ARD TEST C	ONDITION										
PUMP		WER ING	PII SII (m	ZE	FULL LOAD					TOTA	L HEAI) IN MI	ETRES			
MODEL HU HD SHC DEL CURRENT VOLTAGE							6	10	14	18	22	26	30	34	38	42
(IN Amps.) DISCHARGE IN										E IN L	ITRES	PER H	OUR			
CBR140	0.75	1.0	25	25	7.6	240	3348	3105	2808	2448	2088	1764	1440	1116	828	432

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





Pipe Size

Capacity

Liquid

Rated volts

Total Head

25 x 25 mm

Clear water

210 Volts

5 to 40 meters

3600 to 300 LPH

- Self priming up to 8 meters at mean sea level
- Designed for high efficiency over a wide range of operations
- Fitted with Thermal Overload Protector (TOP) to prevent motor burning out
- Can withstand wide voltage fluctuations from 180 to 240 V
- Non overloading power characteristics
- Aluminum motor body
- Provided with handle for ease of handling

Applications

- Residential bungalows, hotels etc.
- Storage water tanks
- Small farms
- Lawns and gardens General industries
- Water circulating systems
- Car washing
- Fountains

PERFORMANCI	E UNDE	R STAN	IDARD '	TEST C	ONDIT	IONS						
PUMP MODEL		WER ING		SIZE m)			TOTA	L HEAI) IN MI	ETRES		
	kW	HP	SUC	DEL	5	10	15	20	25	30	35	40
						DIS	CHARC	E IN L	ITRES	PER HO	OUR	
KSW-05	0.37	0.5	25	25	3300	3120	2820	2400	1980	1500		
KSW-10	0.75	1.0	25	25			3600	3300	2400	1800	900	300

Note: Performance applicable in cases of liquid with specific gravity 1 and viscosity as of water.

KSW

SHALLOW WELL **PUMPS**



Features

- Can withstand wide voltage fluctuations from 180 to 240 Volts (for single phase)
- Suction lift up to 52 metres
- No moving parts inside the well, hence easy
- Available with twin type as well as packer type jet units, in vertical as well as horizontal versions
- Designed to prevent overloading and motor burning out
- Models incorporated with IP-44 protection and class 'B' insulation
- Three phase models also available with IP-55 protection on request
- Dynamically balanced rotating parts ensure minimum vibrations

- Replaceable wear and tear parts and hence longer life
- CED coated wetted components for long life and rust free operations
- More hygienic operations for drinking water

: Cast Iron

 Fitted with shielded ball bearing - no lubrication required through life cycle

Material of Construction (Standard Supply)

: Cast Iron Delivery Casing Motor Body : Cast Iron Shaft Carbon Steel : Cast Iron/ **Jet Unit** Stainless Steel

Impeller

Applications

- Gardening and irrigation
- Lawn sprinklers

Voltage Range

- Clear water handling in industries
- Water supply for use in high rise apartments, buildings and hotels

Technical Specifications

Depth to Low Water Level : 9 to 52 metres 3600 to 120 LPH Capacity Power Rating Single Phase : 0.37 to 1.1 kW

(0.5 to 1.5 HP)

180 to 240 Volts, rated 210 Volts









KOS M/ KOS N

Features

- Designed for underwater applications: no need for priming and foot valve
- Easy installation foundation and installation platform not required
- Can withstand wide voltage fluctuations from 160 to 260 Volts
- Non overloading power characteristics: no fear of motor burning out
- Dynamically balanced rotating parts ensure minimum vibrations
- Replaceable wear and tear parts and hence longer life
- Easy maintenance and spares availability: needs only one spanner for maintenance

- CED coated wetted components for long life and rust free operations
- More hygienic operations for drinking water

Applications

- Water supply for fountains, sumps and water tanks
- Water supply for use in apartments, buildings and hotels
- Gardening and small farm irrigation

Technical Specifications

Head : 8 to 38 metres Capacity : 11 to 0.4 LPS

Power Ratings : 0.37 to 1.5 kW (0.5 to 2.0 HP)

Voltage Range : 160 to 260 V





- Wide voatge range of 160 to 240 V
- Desigened for underwater application
- No need of primming and footvalve for sumbersibale
- No need of foundation, installation and pump housing arrangeemnt
- SS shaft & Body
- LTB4 Bushes
- Carbon Thrust Pad
- Water lubricated bushes
- Noiseless operation

Material of Construction (Standard Supply)

: Noryl Delivery Casing : Cast Iron : SS 410

Mounting Casing: Cast Iron Cover NDE : Cast Iron

Applications

- Water supply for fountains, sumps and water tanks
- Water supply for use in apartments, buildings and
- Gardening and small farm irrigation

Technical Specifications

: 6 to 30 Meters 8640 to 1620 LPH Capacity

Power Rating : 0.37 Kw/ 0.5 HP to 0.75 Kw/ 1.0 HP Voltage Range : 160 to 240 Volts (1 phase)

PERFORM	ANCE	UND	ER ST	'AND	ARD TEST	CONDITIO	NS							172
PUMP		WER ING	SI	PE ZE m)	FULL LOAD CURRENT	RATED			TOTAL	HEAD IN	METRES	5		
MODEL	ODEL CURRENT VOLTAGE							30	*					
					` -			DIS	CHARGE	IN LITRI	ES PER H	OUR		
CHOS-518	0.37	0.5	25	25	5.5	220		6390	5265	3960	1800			
CHOS-134	0.75	1.0	25	25	8.0	220	8640	7560	7020	5985	4725	3285	1620	

Note: Performance applicable in cases of liquid of specific gravity 1 and visco





KU3 SUBMERSIBLE PUMP

Features

Pump

- Lightweight and compact
- Non overloading power characteristics ensure trouble free operation through the entire operating range
- Can be installed with HDPE/ UPVC/ GI pipes
- Flatter efficiency curve ensures better performance through entire operating range
- Can be installed horizontally
- Easy to assemble and dismantle

PERFORMANCE C 50HZ FREQUENCY					BLE PU	MP K	U3 SE	RIES A	AT			
					GPM	2.6	7.9	13.2	15.9	18.5	23.8	26.4
PUMP	Del. Size	Power	STG	Rated	LPM	10	30	50	60	70	90	100
MODEL	(mm)	Rating (kW/HP)		Current	LPS	0.2	0.5	0.8	1.0	1.2	1.5	1.7
		(KW/IIF)		l ø	M³/Hr	0.6	1.8	3.0	3.6	4.2	5.4	6.0
KU3-0610 PUMP	32	0.37/0.5	10	4.4	Ŋ	28	26	21	17	13	7	4
KU3-0612 PUMP	32	0.75/1.0	12	7.8	ËR	34	31	26	20	18	10	5
KU3-0615 PUMP	32	0.55/0.75	15	6	METERS	41	39	31	26	22	12	7
KU3-0615 PUMP	32	0.75/1.0	15	7.8	IN N	41	39	31	26	22	12	7
KU3-0620 PUMP	32	0.75/1.0	20	7.8		55	52	41	34	27	13	6
KU3-0626 PUMP	32	0.93/1.25	26	9.75	HEAD	66	59	48	44	34	13	1
KU3-0632 PUMP	32	1.1/1.5	36	11.7	H	86	75	60	54	44	22	7

Motor

- Anti-friction bearings for axial/radial loads ensure longer life of motor
- Potable 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 pump set
- Stator is easily rewound
- Class 'F' insulation
- Wider voltage range: 160 to 240 Volts (single phase)
- Maximum starts/ stops per hour : 30
- More hygienic operations for drinking water

Material of Construction

Pump

Pump Housing: Stainless Steel AISI 410
Pump Shaft : Stainless Steel AISI 410

Impellers : Noryl Bowl : Noryl

eeves : Stainless Steel AISI 410

Motor

Motor Housing: Stainless Steel AISI 410
Motor Shaft: Stainless Steel AISI 410
Shaft: Stainless Steel AISI 410
All Hardware: Stainless Steel

Applications

- Domestic and industrial water supply
- Fire fighting systems for small and medium size plants
- Sprinkler and drip irrigation systems
- Booster systems
- Farmhouses, nurseries and gardens

Technical Specifications

Head : 4 to 86 Meters
Capacity : 100 to 10 LPM
Rating : 0.37 to 1.10 KW
(0.50 to 1.50 HP)

Voltage : 160 to 240 V (Single Phase)



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- Low power consumption
- Designed for optimum efficiency
- light weight and compact size make it easy to install
- Suitable for minimum 80 mm Bore Diameter
- Minimum submergence required 1 meter
- Declared performance is against power supply 1Phase 200V AC at 50 Hz
- Suitable for non corrosive water < 35 °C
- Suitable for < 50 ppm of suspended solids

Applications

- Domestic and industrial water supply
- Sprinkler and drip irrigation system
- Booster systems
- Farmhouse, nurseries and gardens

Technical SpecificationsHead: 8 to 59 Meters Capacity :68 to 8 LPM : 0.37 to 0.93 KW Rating

(0.50 to 1.25 HP) : 160 to 240 V (Single Phase)

Material of Construction

(Standard Supply)

Shaft Chrome Steel Grade AISI 410 20% Glass Filled Impeller Noryl Noryl 20% Glass Filled Diffuser Cast Iron Grade FG 200 NRV Body LTB 4 Bushes

Bronze

Electrolyte Grade Rotor Copper

Performance chart for 75 mm (3") KS3 series water filled submersible pump, at 50 Hz frequency and 220 volts rated voltage for 1 phase

				Rated	GPM	5.3	6.9	8.7	10.6	12.2	14.0	15.9
Model	Del. Size	Power Rating	STG	Current	LPM	20.0	26.0	33.0	40.0	46.0	53.0	60.0
Model	MM	(kW/HP)	316		LPS	0.3	0.4	0.6	0.7	0.8	0.9	1.0
				1Ø	M³/Hr	1.2	1.6	2.0	2.4	2.8	3.2	3.6
S3D-0507	32	0.37/0.5	7	4.4		23	22	20	19	17	15	13
S3D-0811	32	0.55/0.75	11	6	Head in Meters	36	35	31	30	27	24	20
S3D-1015	32	0.75/1.0	15	7.8	Head	49	47	43	41	36	32	28
S3D-1318	32	0.93/1.25	18	9.75		59	57	51	49	44	39	33

				Rated	GPM	6.6	8.7	11.1	13.2	14.8	16.4	18.0	
Model	Del. Size	Power Rating	STG	Current	LPM	25.0	33.0	42.0	50.0	56.0	62.0	68.0	
Model	MM	(kW/HP)	316	1Ø	LPS	0.4	0.6	0.7	0.8	0.9	1.0	1.1	
				160	M³/Hr	1.5	2.0	2.5	3.0	3.4	3.7	4.1	
E-0505	32	0.37/0.5	5	4.4		13	13	12	11	10	9	8	
E-0810	32	0.55/0.75	10	6	d in ters	26	26	24	22	20	18	16	
E-1012	32	0.75/1.0	12	7.8	Head in Meters	31	31	29	26	24	22	19	
E-1014	32	0.75/1.0	14	7.8		36	36	34	31	28	25	22	
E-1316	32	0.93/1.25	16	11.7		42	42	38	35	32	29	26	





: 5 to 345 Meters Capacity 6 to 420 LPM 0.37 Kw/ 0.5 HP to

4.1 Kw/5.5 HP

Voltage Range : 1 Phase (180 to 240) 3 Phase (280 to 440)

Material of Construction

Pump Housing : Stainless Steel : Cast Iron Suction Housing: Cast Iron Cast Iron : Noryl : Noryl : Stainless Steel

Diffuser Casing: Stainless Steel

- Can withstand wide voltage range from 160 to 240 V for single phase and 280 to 440 V for three phase
- SS motor body
- Motor easily rewound Less vibration and lower noise level due to dynamically balanced rotating parts
- More hygienic operations make it suitable for drinking water applications
- Fitted with mechanical seal

Applications

- Domestic and industrial water
- Firefighting systems for small and medium size plants
- Sprinkler and drip irrigation
- Booster systems
- Farmhouses, nurseries and gardens

	E CHART OF 100 M O VOLTS RATED F								S4 SE	RIES A	AT 501	ΙΖ	
			_,			GPM	1.6	3.2	4.8	6.3	7.9	9.5	11.1
PUMP	POWER RATING	PIPE	STG	FULL	LOAD	LPM	6.0	12	18	24	30	36	42
MODEL	(kW/ HP)	SIZE		CURI	RENT	LPS	0.1	0.3	0.4	0.5	0.6	0.7	0.8
		(mm)		1ø	3 ø	M³/Hr	0.36	0.72	1.08	1.44	1.8	2.16	2.52
KS4A-0507	0.37/0.5	32	7	4.5	2.8		46	44	42	39	35	30	25
KS4A-0810	0.55/0.75	32	10	6.0	2.8		65	63	60	55	50	43	36
KS4A-1012	0.75/1	32	12	8.0	3.0		78	76	72	66	60	52	43
KS4A-1013	0.75/1	32	13	8.0	3.0	RS	85	82	78	72	65	56	47
KS4A-1014	0.75/1	32	14	8.0	3.0	METERS	91	88	84	77	70	60	50
KS4A-1016	0.75/1	32	16	8.0	3.0	¥	104	101	96	88	80	69	58
KS4A-1518	1.1/1.5	32	18	11	3.5	呂	117	113	108	99	90	77	65
KS4A-1520	1.1/1.5	32	20	11	3.5	AD.	130	126	120	110	100	86	72
KS4A-2025	1.5/2	32	25	14	4.5	HE7	163	158	150	138	125	108	90
KS4A-3034	2.2/3	32	34	19	6.5	- 14	221	214	204	187	170	146	122
KS4A-3037	2.2/3	32	37	19	6.5		241	233	222	201	185	159	133
KS4A-3040	2.2/3	32	40	19	6.5		260	252	240	220	200	172	144

Note: Performance of KS4AN series is equivalent to KS4A series

PERFORMANCE CHART OF 100 MM (4") WATER FILLED SUBMERSIBLE PUMP KS4 SERIES AT 50HZ FREOUENCY, 220 VOLTS RATED FOR 1PH, 415 VOLTS RATED VOLTAGE FOR 3PH

						GPM	4.0	6.3	7.9	9.5	11.9	15.9	17.4	
PUMP	POWER RATING	PIPE	STG	FULL		LPM	15	24	30	36	45	60	66	
MODEL	(kW/HP)	SIZE (mm)		CURI	RENT	LPS	0.25	0.4	0.50	0.60	0.75	1.0	1.10	
		(11111)		lø	3 Ø	M³/Hr	0.9	1.44	1.8	2.16	2.7	3.6	3.96	
KS4B-0505	0.37/0.5	32	5	4.5	2.8		35	32	29	25	19	9	4	
KS4B-0506	0.37/0.5	32	6	4.5	2.8		41	38	34	30	23	11	5	
KS4B-0808	0.55/0.75	32	8	6.0	2.8		55	50	46	40	30	14	6	1
KS4B-0809	0.55/0.75	32	9	6.0	2.8	METERS	62	57	51	45	34	16	7	-
KS4B-1010	0.75/1	32	10	8.0	3.0	農	69	63	57	50	38	18	8	5
KS4B-1011	0.75/1	32	11	8.0	3.0		76	69	63	55	42	20	9	
KS4B-1012	0.75/1	32	12	8.0	3.0	呂	83	76	68	60	46	22	10	
KS4B-1514	1.1/1.5	32	14	11	3.5	ΑĐ	97	88	8	70	53	25	11	
KS4B-1515	1.1/1.5	32	15	11	3.5	E E	104	95	86	75	57	27	12	
KS4B-1516	1.1/1.5	32	16	11	3.5		110	101	91	80	61	29	13	
KS4B-1517	1.1/1.5	32	17	11	3.5		117	107	97	85	65	31	14	500
KS4B-2020	1.5/2	32	20	14	4.5		138	126	114	100	76	36	16	20
KS4B-2022	1.5/2	32	22	14	4.5		152	139	125	110	84	40	18	1
KS4B-3030	2.2/3	32	30	19	6.5		207	189	171	150	114	54	24	
KS4B-3035	2.2/3	32	35	19	6.5		242	221	200	175	133	63	28	100
KS4B-4045	3/4	32	45	23	8.5		311	284	257	225	171	81	36	
KS4B-5050	3.7/5	32	50	23	10.0		345	315	285	250	190	90	40	50

Note: Performance of KS4BN series is equivalent to KS4B series

	PERFORMA AT 50HZ FRI							SUBM VOLTS					
							GPM	4.0	7.9	11.9	14.0	15.9	19.8
	PUMP	POWER	PIPE	STG	Rated (Current	LPM	15.0	30.0	45.0	53.0	60.0	75.0
	MODEL	RATING	SIZE (mm)				LPS	0.3	0.5	0.8	0.9	1.0	1.3
		(kW/ HP)	(IIIII)		1ø	3 Ø	M³/Hr	0.9	1.8	2.7	3.2	3.6	4.5
	KS4C-0805	0.55 / 0.75	38	6	6.0	2.8		47	45	40	36	33	25
	KS4C-0806	0.55 / 0.75	38	6	6.0	2.8		47	45	40	36	33	25
	KS4C-1007	0.75 / 1	38	7	8.0	3.0		55	53	46	42	39	29
	KS4C-1008	0.75 / 1	38	8	8.0	3.0		62	60	53	48	44	33
	KS4C-1009	0.75 / 1	38	9	8.0	3.0		70	68	59	54	50	37
	KS4C-1510	1.1 / 1.5	38	10	11	3.5		78	75	66	60	55	41
	KS4C-1511	1.1 / 1.5	38	11	11	3.5	Ω	86	83	73	66	61	45
	KS4C-1512	1.1 / 1.5	38	12	11	3.5	l H	94	90	79	72	66	49
	KS4C-2014	1.5 / 2	38	14	14	4.5	<u> </u>	109	105	92	84	77	57
	KS4C-2015	1.5 / 2	38	15	14	4.5	IN METERS	117	113	99	90	83	62
	KS4C-2016	1.5 / 2	38	16	14	4.5		125	120	106	96	88	66
	KS4C-3020	2.2/3	38	20	19	6.5	HEAD	156	150	132	120	110	82
	KS4C-3022	2.2/3	38	22	19	6.5	臣	172	165	145	132	121	90
	KS4C-4028	3/4	38	28	23	8.5		218	210	185	168	154	115
=	KS4C-4030	3/4	38	30	23	8.5		234	225	198	180	165	123
	KS4C-5035	3.7 / 5	38	35	30	10.0		273	263	231	210	193	144
	KS4C-5036	3.7/5	38	36	30	10.0		281	270	238	216	198	148

	0.12 / 0	00		00	10.0		пот	210	200	што	100
KS4C-5038	3.7 / 5	38	38	30	10.0		296	285	251	228	209
KS4C-6045	4.5 / 6	38	45	36	12.0		351	338	297	270	248
						GPM	7.9	11.9	15.9	17.8	19.8
PUMP	POWER	PIPE	STG	Rated (Current	LPM	30	45	60	68	75
MODEL						LPS	0.5	0.8	1.0	1.1	1.3
	(KW/ HP)	(11111)		l ø	3 Ø	M³/Hr	1.8	2.7	3.6	4.1	4.5
KS4D-1005	0.75 / 1	38	5	8.0	3.0		37	32	26	23	19
KS4D-1507	1.1 / 1.5	38	7	11	3.5		51	45	36	32	27
KS4D-1508	1.1 / 1.5	38	8	11	3.5		58	51	42	36	30
KS4D-1509	1.1 / 1.5	38	9	11	3.5		66	58	47	41	34
KS4D-2010	1.5 / 2	38	10	14	4.5		73	64	52	45	38
KS4D-2011	1.5 / 2	38	11	14	4.5		80	70	57	50	42
KS4D-3015	2.2 / 3	38	15	19	6.5	Ω	110	96	78	68	57
KS4D-3016	2.2/3	38	16	19	6.5	l P	117	102	83	72	61
KS4D-3017	2.2/3	38	17	19	6.5	<u> </u>	124	109	88	77	65
KS4D-4020	3/4	38	20	23	8.5	2 2	146	128	104	90	76
KS4D-4021	3/4	38	21	23	8.5		153	134	109	95	80
KS4D-5025	3.7 / 5	38	25	30	10.0	EA	183	160	130	113	95
KS4D-5027	3.7 / 5	38	27	30	10.0	田田	197	173	140	122	103
	PERFORMA AT 50HZ FRE PUMP MODEL KS4D-1005 KS4D-1507 KS4D-1509 KS4D-2010 KS4D-2011 KS4D-3015 KS4D-3016 KS4D-3017 KS4D-4020 KS4D-4021 KS4D-4021	PUMP POWER RATING (kW/HP)	PUMP	PUMP	PERFORMANCE CHART OF 100 MM (4") VAT 50HZ FREQUENCY, 220 VOLTS RATED F MODEL RATING (kW/HP) To Model Model	PUMP POWER RATING (kW/HP) PIPE SIZE (mm)	PUMP POWER RATING (kW/HP) SIZE (mun) LPM LPS LPM LPS LPM LPS LPM LPS LPS	RS4C-5038 3.7/5 38 38 30 10.0 296	RS4C-5038 3.7/5 38 38 30 10.0 296 285	No. No.	RS4C-5038 3.7/5 38 38 30 10.0 296 285 251 228 251 228 251 228 251 238 251

34 | 205 | 166 | 144 | 122 | 77

KS4D-6030 4.5 / 6 38 30 36 12.0 KS4D-6032 4.5 / 6 38 32 36 12.0

KS4D-8040 5.5 / 7.5 38 40 NA 14.5

PERFORMANCE CHART OF 100 MM (4") WATER FILLED SUBMERSIBLE PUMP KS4 SERIES AT 50HZ FREQUENCY, 220 VOLTS RATED FOR 1PH, 415 VOLTS RATED VOLTAGE FOR 3PH

						GPM	7.9	11.9	15.9	19.8	23.8	27.7	31.7	
PUMP	POWER RATING	PIPE	STG	Rated (Current	LPM	30	45	60	75	90	105	120	
MODEL	(kW/ HP)	SIZE (mm)				LPS	0.5	0.8	1.0	1.3	1.5	1.8	2.0	
		(Ituit)		l ø	3 Ø	M³/Hr	1.8	2.7	3.6	4.5	5.4	6.3	7.2	
KS4E-1004	0.75 / 1	38	4	8.0	3.0		30	28	27	24	21	18	14	-
KS4E-1506	1.1 / 1.5	38	6	11	3.5	Ω	44	43	40	37	32	27	21	
KS4E-2008	1.5 / 2	38	8	14	4.5	ERS	59	57	54	49	42	36	28	
KS4E-3012	2.2/3	38	12	19	6.5	MET	89	85	80	73	64	54	42	
KS4E-4016	3 / 4	38	16	23	8.5	N N	118	114	107	98	85	72	56	
KS4E-5020	3.7 / 5	38	20	30	10.0		148	142	134	122	106	90	70	
KS4E-5021	3.7 / 5	38	21	30	10.0	EAD	155	149	141	128	111	95	74	
KS4E-6025	4.5 / 6	38	25	36	12.0	ΗE	185	178	168	153	133	113	88	
KS4E-8030	5.5 / 7.5	38	30	NA	14.5		222	213	201	183	159	135	105	

PERFORMANCE CHART OF 100 MM (4") WATER FILLED SUBMERSIBLE PUMP KS4 SERIES AT 50HZ FREQUENCY, 220 VOLTS RATED FOR 1PH, 415 VOLTS RATED VOLTAGE FOR 3PH

						GPM	7.9	15.9	19.8	23.8	27.7	31.7	39.6	
PUMP	POWER RATING	PIPE	STG	FULL	LOAD	LPM	30	60	75	90	105	120	150	L
MODEL	(kW/HP)	SIZE (mm)		CURI	RENT	LPS	0.5	1.0	1.3	1.5	1.8	2.0	2.5	N
		(Hatt)		l ø	3 Ø	M³/Hr	1.8	3.6	4.5	5.4	6.3	7.2	9.0	
S4F-1506	1.1/1.5	50	6	11	3.5		38	35	33	30	26	23	15	4
S4F-2007	1.5/2	50	7	14	4.5	Ω	44	41	38	35	31	27	18	-2
S4F-3010	2.2/3	50	10	19	6.5	Ä	63	59	55	50	44	39	25	-
S4F-4014	3/4	50	14	23	8.5	METERS	88	83	76	69	62	55	35	
S4F-5017	3.7/5	50	17	30	10.0	NI NI	107	100	93	84	75	66	43	
S4F-5018	3.7/5	50	18	30	10.0		113	106	98	89	79	70	45	
S4F-6020	4.5/6	50	20	36	12.0	HEAD	126	118	10	99	88	78	50	
S4F-6021	4.5/6	50	21	36	12.0	量	132	124	114	104	92	82	53	
S4F-8025	5.5/7.5	50	25	NA	14.5		158	148	136	124	110	98	63	

PERFORMANCE CHART OF 100 MM (4") WATER FILLED SUBMERSIBLE PUMP KS4 SERIES AT 50HZ

FREQUENCY, 22	0 VOLTS RATED I	FOR 1PI	H, 415 V	OLTS R	ATED V	OLTAG	E FOR	3PH						ı
						GPM	15.9	23.8	31.7	35.7	39.6	47.6	63.4	
PUMP	POWER RATING	PIPE	STG	FULL	LOAD	LPM	60	90	120	135	150	180	240	
MODEL	(kW/HP)	SIZE (mm)		CURI	RENT	LPS	1.0	1.5	2.0	2.3	2.5	3.0	4.0	
		(11111)		l ø	3 Ø	M³/Hr	3.6	5.4	7.2	8.1	9.0	10.8	14.4	
KS4G-1505	1.1/1.5	50	5	11	3.5		32	30	27	24	23	18	9	
KS4G-1506	1.1/1.5	50	6	11	3.5	Ω	39	36	32	29	27	22	10	
KS4G-2007	1.5/2	50	7	14	4.5	TERS	45	42	37	34	32	2	12	
KS4G-2008	1.5/2	50	8	14	4.5	<u> </u>	52	48	42	39	36	29	14	
KS4G-3010	2.2/3	50	10	19	6.5	IN ME	65	60	53	49	45	37	17	
KS4G-3011	2.2/3	50	11	19	6.5		71	65	58	53	50	40	19	Š
KS4G-4014	3/4	50	14	23	8.5	HEAD	90	83	74	68	63	51	24	
KS4G-4015	3/4	50	15	23	8.5	豆	97	89	80	73	68	55	26	
KS4G-5017	3.7/5	50	17	30	10.0		110	101	90	82	77	62	29	

PERFORMANCE CHART OF 100 MM (4") WATER FILLED SUBMERSIBLE PUMP KS4 SERIES AT 50HZ FREQUENCY, 220 VOLTS RATED FOR 1PH, 415 VOLTS RATED VOLTAGE FOR 3PH

1							GPM	15.9	31.7	47.6	63.4	79.3	95.1	111.0
1	PUMP	POWER RATING	PIPE	STG	Rated (Current	LPM	60	120	180	240	300	360	420
1	MODEL	(kW/ HP)	SIZE (mm)				LPS	1.0	2.0	3.0	4.0	5.0	6.0	7.0
1			(IIIII)		1ø	3 Ø	M³/Hr	3.6	7.2	10.8	14.4	18.0	21.6	25.2
	KS4H-1003	0.75 / 1	65	3	8	3.0		15	14	12	10	8	6	3
	KS4H-1504	1.1 / 1.5	65	4	11	3.5		20	18	16	14	11	8	4
	KS4H-2005	1.5/2	65	5	14	4.5		25	23	20	17	14	10	5
	KS4H-2006	1.5 / 2	65	6	14	4.5	:RS	30	27	24	21	17	12	6
	KS4H-3007	2.2/3	65	7	19	6.5	METERS	35	32	28	24	20	14	7
	KS4H-3008	2.2/3	65	8	19	6.5		40	36	32	28	22	16	8
	KS4H-3009	2.2/3	65	9	19	6.5	呂	45	41	36	31	25	18	9
	KS4H-4010	3/4	65	10	23	8.5	HEAD	50	46	40	35	28	20	10
	KS4H-4011	3 / 4	65	11	23	8.5	出	55	50	44	38	31	22	11
	KS4H-5012	3.7 / 5	65	12	30	10.0		60	55	48	41	34	24	12
	KS4H-5014	3.7 / 5	65	14	30	10.0		70	64	56	48	39	28	14
ı	KS4H-6015	4.5 / 6	65	15	36	12.0		75	68	60	52	42	30	15
	KS4H-8019	5.5 / 7.5	65	19	NA	14.5		95	86	76	66	53	38	19
1	KS4H-8020	5.5 / 7.5	65	20	NA	14.5		100	91	80	69	56	40	20

Note: KS4H models also available with 50 mm delivery size.



KU4 SUBMERSIBLE PUMP



Pump Features

- Low power consumption
- Designed for optimum efficiency
- Suitable for oil and water filled motor
- Pump motor connection according to NEMA standard
- Hexa Rubber Bush and Stainless Steel sleeve for increased wear resistance
- NRV fitted in discharge outlet to prevent backflow
- Corrosion and abrasion resistant parts
- Less vibration and lower noise level due to dynamic balancing of rotating parts
- Lightweight and compact size make it easy to install
- Can be installed with HDPE / UPVC / GI pipes
- Can be installed horizontally

Material of Construction

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

mpellers : 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

Applications

- Domestic and industrial water supply
- Firefighting systems for small and medium size plants
- Sprinkler and drip irrigation systems
- Booster systems
- Farmhouses, nurseries and gardening

Technical Specifications

ead : 23 - 251 Meters apacity : 5 to 350 LPM

Rating : 0.37 Kw/ 0.5 HP to 4.1 Kw/

5.5HP

Voltage Range : 1 Phase (180 to 240) 3 Phase (280 to 440)

Motor : Oil filled, fitted with double

ball bearing

- Anti-friction bearings for axial/radial loads ensure longer life of motor
- Potable and hygienic grade of oil-filled motor facilitates use of anti-friction bearings (instead of journal bearings), which result in smooth running and trouble free pump set operation

Stator is easily rewound

Insulation : Class 'F'
Maximum starts/ stops : 30 per hour



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KU4 SUBMERSIBLE PUMP

		ART OF 100 I OLTS RATEI											Z
						GPM	2.6	5.3	6.6	7.9	9.2	10.6	13.2
PUMP	DEL.	POWER	~ ~	~	LOAD	LPM	10	20	25	30	35	40	50
MODEL	SIZE (mm)	RATING (kW/ HP)	STG	COM	VEIAI	LPS	0.17	0.33	0.42	0.50	0.58	0.67	0.83
	, ,			1ø	3 Ø	M³/Hr	0.6	1.2	1.5	1.8	2.1	2.4	3.0
TU4-0307	32	0.37 / 0.5	7	3.5	1.4		44	39	36	32	28	22	10
TU4-0310	32	0.55 / 0.75	10	4.5	1.9		63	56	51	46	39	31	14
TU4-0311	32	0.75 / 1.02	11	5.8	2.5		69	61	56	50	43	35	16
TU4-0314	32	0.75 / 1.02	14	5.8	2.5	RS E	88	78	71	64	55	44	20
TU4-0318	32	1.1 / 1.5	18	7.9	2.9	A E	113	100	91	82	71	57	26
TU4-0321	32	1.1 / 1.5	21	7.9	2.9	ME,	132	117	107	96	83	66	30
TU4-0328	32	1.5/2	28	11	4.9		176	156	142	128	110	88	40
TU4-0334	32	2.2/3	34	15	6		214	189	172	155	134	107	49
TU4-0340	32	2.2/3	40	15	6		251	223	203	183	157	126	57

		100 mm (4") (e for 1ph, 415						eries	at 50hz	z frequ	ency &	Š.	
						GPM	1.3	2.6	4.0	5.3	6.6	7.9	9.2
PUMP	DEL. SIZE	POWER RATING	am a	~	LOAD	LPM	5	10	15	20	25	30	35
MODEL	(mm)	(kW/HP)	STG	COId		LPS	0.08	0.17	0.25	0.33	0.42	0.50	0.58
				1ø	3 Ø	M³/Hr	0.3	0.6	0.9	1.2	1.5	1.8	2.1
KU4-0214	32	0.37/ 0.5	14	3.5	1.4		6.9	64	57	50	41	31	20
KU4-0221	32	0.55 / 0.75	21	4.5	41.9	¥ £	104	96	86	75	62	47	30
KU4-0228	32	0.75 / 1.02	28	5.8	2.5		138	128	114	100	82	62	40
KU4-0234	32	1.1 / 1.5	34	7.9	2.9	HEA MET	168	155	138	121	100	75	49
KU4-0240	32	1.1 / 1.5	40	7.9	2.9	田区	197	183	163	143	117	89	57

Performance chart of 100 mm (4") oil filled submersible pump ku4 series at 50hz frequency & 220 volts rated voltage for 1ph, 415 volts rated voltage for 3ph														
						GPM	5.3	10.6	13.2	15.8	18.5	21.1	26.4	
PUMP	DEL.	POWER		~	LOAD RENT	LPM	20	40	50	60	70	80	100	L
MODEL	SIZE (mm)	RATING (kW/ HP)	STG	CUR	KENI	LPS	0.33	0.67	0.83	1.00	1.17	1.33	1.67	
	()	(,		1ø	3 Ø	M³/Hr	1.2	2.4	3.0	3.6	4.2	4.8	6.0	
KU4-0704	32	0.37 / 0.5	4	3.5	1.4		26	25	23	21	18	14	5	
KU4-0706	32	0.55 / 0.75	6	4.5	1.9		39	37	35	31	26	21	8	
KU4-0707	32	0.55 / 0.75	7	4.5	1.9		46	43	40	36	31	25	9	L
KU4-0708	32	0.75 / 1.02	8	6	4		52	49	46	41	35	28	10	1
KU4-0709	32	0.75 / 1.02	9	6	4		59	55	52	46	39	32	11	
KU4-0711	32	1.1 / 1.5	11	9	4.2	日記	72	67	63	56	48	39	14	1
KU4-0713	32	1.1 / 1.5	13	7.9	4.2		85	80	75	67	57	46	16	1
KU4-0715	32	1.5 / 2	15	11	4.5	HEAD I	98	92	86	77	66	53	19	
KU4-0718	32	1.5 / 2	18	11	4.5		117	110	104	92	79	63	23	
KU4-0722	32	1.9 / 2.5	22	13.8	NA		143	135	127	113	96	77	28	
KU4-0727	32	2.2/3	27	15	6		176	165	155	138	118	95	34	
KU4-0736	32	3 / 4	36	NA	8.5		234	221	207	185	158	126	45	

	220 volts rated voltage for 1ph, 415 volts rated voltage for 3ph													
PUMP MODEL	DEL. SIZE (mm)						5.3	10.6	15.8	18.5	21.1	26.4	31.7	-
		POWER RATING (kW/ HP)	~~~	FULL LOAD CURRENT		LPM	20	40	60	70	80	100	120	
			STG			LPS	0.33	0.67	1.00	1.17	1.33	1.67	2.00	
				1ø	3 Ø	M³/Hr	1.2	2.4	3.6	4.2	4.8	6.0	7.2	
KU4-0807	32	0.75 / 1.02	7	5.8	2.5		42	40	36	34	32	27	20	
KU4-0810	32	1.1 / 1.5	10	7.9	2.9	Z 22	60	56	51	49	46	39	29	
KU4-0814	32	1.5/2	14	11	4.5		84	79	72	68	64	54	40	
KU4-0821	32	2.2/3	21	15	6	HEA MET	126	119	108	102	96	81	60	
KU4-0828	32	3 / 4	28	NA	8.5	ΞZ	168	158	144	136	128	108	80	
KU4-0838	32	4.1 / 5.5	38	NA	10.5		228	214	195	185	174	147	109	

220 volts rated voltage for 1ph, 415 volts rated voltage for 3ph													
	DEL. SIZE (mm)			FULL LOAD CURRENT		GPM	6.6	13.2	19.8	26.4	33.0	39.6	46.2
PUMP MODEL		POWER	STG			LPM	25	50	75	100	125	150	175
		RATING (kW/ HP)				LPS	0.42	0.83	1.25	1.67	2.08	2.50	2.92
				1ø	3 Ø	M³/Hr	1.5	3.0	4.5	6.0	7.5	9.0	10.5
KU4-1504	50	0.55 / 0.75	4	4.5	1.9	HEAD IN METERS	25	24	22	20	16	12	8
KU4-1505	50	0.75 / 1.02	5	5.8	2.5		31	30	28	24	20	15	10
KU4-1507	50	1.1 / 1.5	7	7.9	2.9		44	42	39	34	28	21	14
KU4-1509	50	1.5 / 2	9	11	4.5		56	54	50	44	36	27	18
KU4-1512	50	2.2/3	12	15	6		75	72	66	59	48	36	24
KU4-1514	50	2.2/3	14	15	6	出景	88	84	77	68	56	42	28
KU4-1519	50	3/4	19	NA	8.5		119	114	105	93	76	57	38
KU4-1524	50	4.1 / 5.5	24	NA	10.5		150	144	132	117	96	72	48
KU4-1526	50	4.1 / 5.5	26	NA	10.5		163	156	143	127	104	78	52

rformance chart of 100 mm (4") oil filled submersible pump ku4 series at 50hz frequency & 0 volts rated voltage for 1ph, 415 volts rated voltage for 3ph														
PUMP MODEL				FULL LOAD CURRENT		GPM	13.2	26.4	39.6	52.8	66.0	79.2	92.4	
	DEL. SIZE (mm)	POWER RATING (kW/ HP)	аша			LPM	50	100	150	200	250	300	350	l
			STG			LPS	0.83	1.67	2.50	3.33	4.17	5.00	5.83	1
				l ø	3 Ø	M³/Hr	3.0	6.0	9.0	12.0	15.0	18.0	21.0	1
J4-2504	50	1.1 / 1.5	4	7.9	2.9	1.5 N. S. S.	23	21	18	15	12	8	5	
J4-2506	50	1.5/2	6	11	4.5		35	31	27	23	17	12	8	
J4-2507	50	1.87 / 2.5	7	13.8	5		40	36	32	26	20	14	9	1
J4-2509	50	2.2/3	9	15	6	HEAD METE	52	46	41	34	26	18	11	
J4-2512	50	3/4	12	NA	8.8	田区	69	62	54	45	35	24	15	
J4-2516	50	4.1 / 5.5	16	NA	10.5		92	82	72	60	46	32	20	