

# LJC Series Vertical Turbine Pump

## Introduction

LJC Series Vertical Turbine Pumps are new generation and energy saving equipment for lifting water. They are with advanced structure, for they adopting the core produced with the resin sand and impeller & diffuser adopting the new technique that top coated with epoxy, advanced hydraulic model, excellent performance curve without hump and wide high efficiency range. The efficiency is 4 to 8% higher than that of JC or JD Type Deep Well Pumps in average, for they use whirl sand device and the maze-like structure which makes sand not able to enter the Bearing, Shaft checked by flame method to ensure it's in line. It's a new generation pump design.

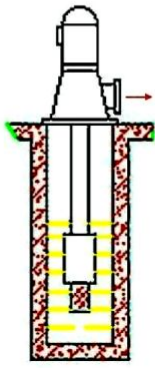
Capacity:	≤ 2500 m <sup>3</sup> /hr
Motor Power:	5.5 ~ 710kW
Rated Voltage:	380 ~ 440V, 6kV, 10kV
Well Diameter:	100 ~ 750mm
Max. Discharge Diameter:	450mm

## Usage

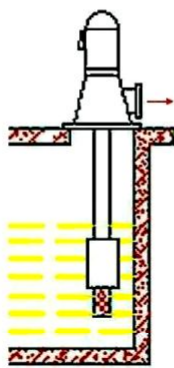
LJC Series Vertical Turbine Pumps are applied to lift normal temperature clean water without erosive for water plant (in an overhaul and leakage), power plant (when reduce the temperature in the recycle, and for domestic service), steel works (for scale pit), fir fighting, urban water supply by water plant and agriculture irrigation.



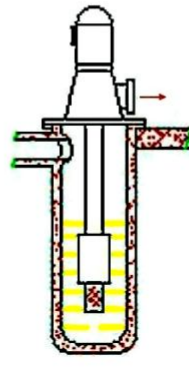
## Installation



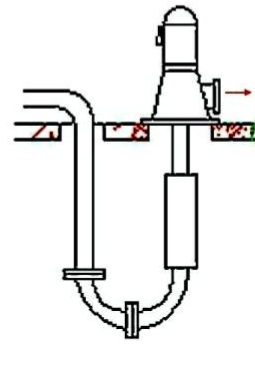
Lift Water From Deep Well



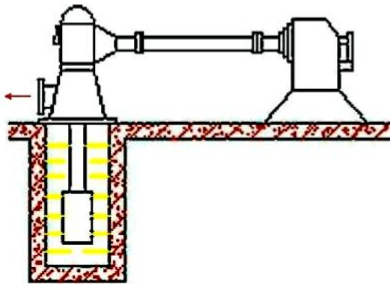
Drain Water From Cistern



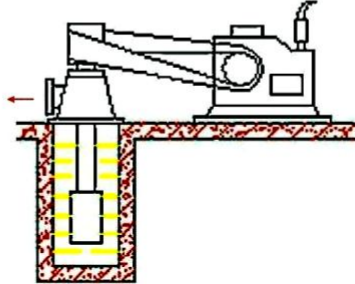
Barrel Mode Installation For Water Drainage



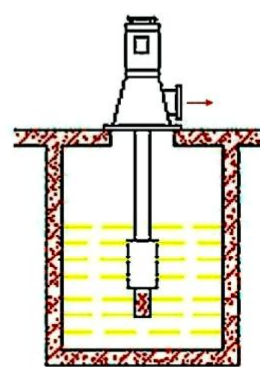
Increase Water Pressure In Conduit



Diesel Drived

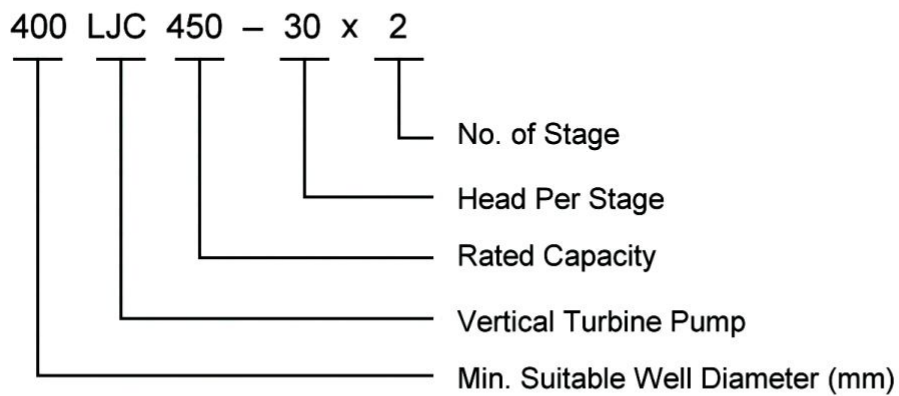


Diesel Drived



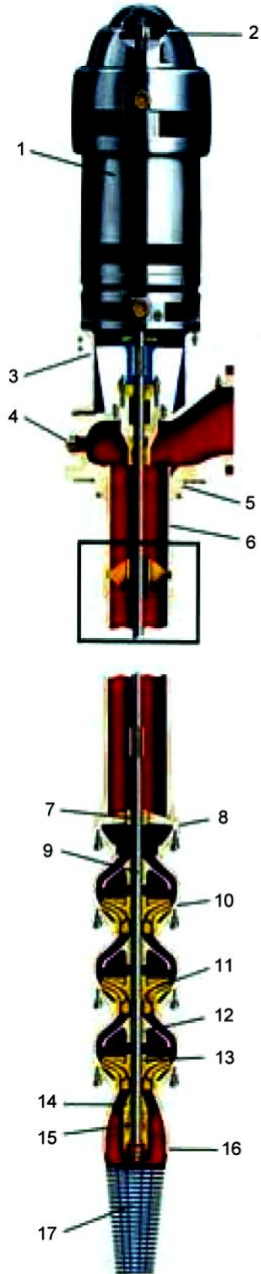
Water Drainage In Special Ducty

## Model Number Description

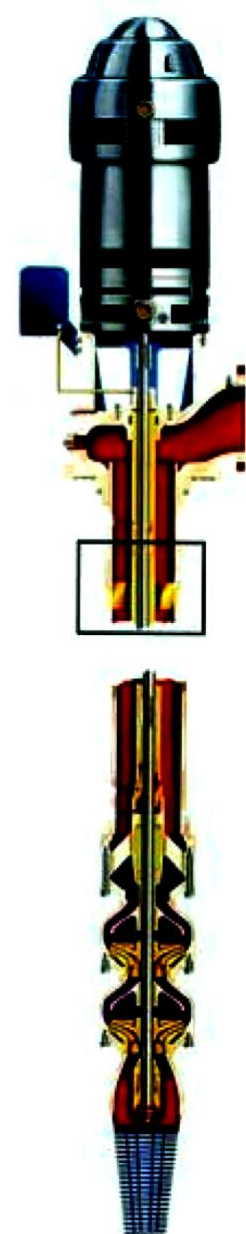


# Structure Explanation

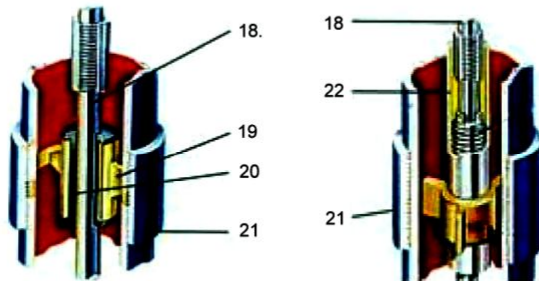
## Open Impeller Type



## Enclosed Impeller Type



1. Motor
2. Adjusting Nut
3. Discharge Head
4. Pre-Lubricating Plug
5. Suction Flange
6. Upper Short Column
7. Upper Bowl Bearing
8. Discharge Bowl
9. Impeller Shaft
10. Intermediate Bowl
11. Impeller
12. Bowl Bearing
13. Lock Collet
14. Prevention Sand Ring
15. Suction Bowl Bearing
16. Suction Bowl
17. Strainer
18. Lineshaft
19. Spider
20. Spider Bearing
21. Column Pipe and Couplings
22. Enclosing Tube



## Basic Parameters

Model	Capacity	Head			Stage	Motor Power	String Quantity	Rotating Speed	Effi.	Max. outside Dia. Below well
	m <sup>3</sup> /h	m			i	kW	mm	r/min	%	mm
100LJC10-4	6.5	35	32	25.5	8	5.5	8	2940	62	92
		44	40	32	10	5.5				
		53	48	38	12	5.5				
	10	61.5	56	44.5	14	5.5				
		70	64	51	16	5.5				
		79	72	57.5	18	5.5				
	12	88	80	64	20	5.5				
		96.5	88	70	22	5.5				
		105.5	96	76.5	24	5.5				
150LJC10-9	8	115	104	83	26	5.5	12	2940	62	138
		74.5	72	54	8	5.5				
		84	80	61	9	5.5				
		93	89	67.5	10	5.5				
	10	102.5	98	74	11	7.5				
		112	108	81	12	7.5				
		121	117	87.5	13	7.5				
		130	126	94.5	14	7.5				
	16	139.5	135	101	15	11				
		149	144	108	16	11				
		158	153	114.5	17	11				
150LJC20-11	15	167	162	121.5	18	11	12	2940	67	150
		176.5	171	128	19	11				
		48	44	39.4	4	5.5				
	20	60	55	49.3	5	5.5				
		84	77	69	7	7.5				
		108	99	88.6	9	11				
	24	132	121	108.2	11	15				
		156	143	128	13	15				
180	165	147.5	15	18.5						
204	187	167	17	18.5						



## Basic Parameters

Model	Capacity	Head			Stage	Motor Power	String Quantity	Rotating Speed	Effi.	Max. outside Dia. Below well
	m <sup>3</sup> /h	m			i	kW	mm	r/min	%	mm
150LJC30-12.5	21	69	62.5	51	5	11	8	2940	70	150
		82.5	75	61	6	11				
		96.2	87.5	71.8	7	15				
	30	110.4	100	82	8	15				
		124	112.5	92.2	9	15				
		138	125	102.5	10	18.5				
	36	151.6	137.5	112.8	11	18.5				
		165	150	123	12	22				
		179.4	162.5	133.3	13	22				
150LJC40-13.5	30	62	54	50	4	11	8	2940	72	150
		77.5	67.5	62.5	5	15				
		93	81	75	6	15				
	40	108.5	94.5	87.5	7	18.5				
		124	108	100	8	18.5				
		139	121.5	112.5	9	22				
	46	155	135	125	10	30				
		170.5	148.5	137.5	11	30				
		186	162	150	12	30				
150LJC50-13	30	66	52	46	4	11	8	2940	74	150
		82.5	65	57.5	5	15				
	50	99	78	69	6	18.5				
		115.5	91	80.5	7	22				
	55	132	104	92	8	22				
		148.5	117	103.5	9	30				
200LJC60-20	40	44	40	30	2	11	9	2940	75	181
		66	60	45	3	18.5				
	60	88	80	60	4	22				
		110	100	75	5	30				
	76	132	120	90	6	37				
		154	140	105	7	37				

## Basic Parameters

Model	Capacity	Head			Stage	Motor Power	String Quantity	Rotating Speed	Effi.	Max. outside Dia. Below well
	m <sup>3</sup> /h	m			i	kW	mm	r/min	%	mm
200LJC80-22.5	60 80 100	49	45	38	2	15	9	2940	75	181
		73.5	67.5	57	3	22				
		98	90	76	4	30				
		122.5	112.5	95	5	37				
200LJC90-20	67 90 119	45	40	28	2	15	10	2940	75	190
		68	60	43	3	22				
		91	80	57	4	30				
		114	100	72	5	37				
200LJC125-18	89 125 142	21.5	18	15	1	11	10	2940	76	190
		43	36	30	2	18.5				
		64.5	54	45	3	30				
		86	72	60	4	37				
250LJC130-8.5	89 130 150	49	42.5	35	5	22	10	1460	78	242
		59	51	42	6	30				
		69	59.5	49	7	37				
		79	68	56	8	37				
		89	76.5	63	9	45				
		99	85	70	10	45				
		109	93.5	77	11	55				
		119	102	84	12	55				
300LJC160-11.5	125 160 200	39	34.5	28.5	3	22	14	1460	80	295
		52	46	38	4	30				
		65	57.5	47.5	5	37				
		78	69	57	6	45				
		91	80.5	66.5	7	55				
		104	92	76	8	75				
		117	103.5	85.5	9	75				
		130	115	95	10	75				
		143	126.5	104.5	11	90				
		156	138	114	12	90				

## Basic Parameters

Model	Capacity	Head			Stage	Motor Power	String Quantity	Rotating Speed	Effi.	Max. outside Dia. Below well
	m <sup>3</sup> /h	m			i	kW	mm	r/min	%	mm
300LJC185-12	130	27	24	18.9	2	18.5	14	1460	80	295
		40	36	28.4	3	30				
		54	48	37.8	4	37				
	185	67	60	47.2	5	45				
		81	72	56.7	6	55				
	235	94	84	66	7	75				
		108	96	75.6	8	75				
		121	108	85	9	90				
300LJC220-13.5	154	29	27	22	2	22	12	1460	80	295
		44	40.5	34	3	37				
		59	54	45	4	45				
	220	74	67.5	57	5	55				
		89	81	68	6	75				
	264	104	94.5	79	7	90				
		119	108	91	8	90				
350LJC300-15	230	35	30	23	2	37	12	1460	80	346
		52.5	45	34.5	3	55				
	300	70	60	46	4	75				
		87.5	75	57.5	5	90				
	370	105	90	69	6	110				
		122.5	105	80.5	7	132				
350LJC370-16	270	19	16	11.5	1	30	12	1460	80	346
		38	32	23	2	55				
	370	57	48	34.5	3	75				
		76	64	46	4	90				
	460	95	80	57.5	5	110				
		114	96	69	6	132				
350LJC400-18	280	20.8	18	14	1	37	12	1460	80	346
		41	36	29	2	55				
	400	62	54	43	3	90				
		83	72	58	4	110				
	480	104	90	73	5	132				

## Basic Parameters

Model	Capacity	Head			Stage	Motor Power	String Quantity	Rotating Speed	Effi.	Max. outside Dia. Below well
		m								
400LJC450-30	290 450 540	35	30	25	1	55	22	1475	80	430
		70	60	50	2	110				
		105	90	75	3	150				
		140	120	100	4	200				
		175	150	125	5	250				
400LJC550-27	400 550 850	29	27	17.5	1	55	20	1475	81	430
		58	54	35	2	110				
		87	81	52.5	3	180				
		116	108	70	4	225				
		145	135	87.5	5	280				
450LJC650-32	520 650 850	35	32	22	1	90	20	1475	80	520
		70	64	44	2	180				
		105	96	66	3	250				
		140	128	88	4	350				
		175	160	110	5	400				
450LJC900-30	600 900 1100	34	30	24	1	110	20	1475	82	520
		68	60	48	2	225				
		102	90	72	3	315				
		136	120	96	4	400				
		170	150	120	5	520				
500LJC1000-29	790 1000 1300	33	29	21	1	110	20	1475	83	600
		66	58	42	2	225				
		99	87	63	3	350				
		132	116	84	4	450				
500LJC1250-30	800 1250 1750	36	30	18.5	1	150	17	1475	84	600
		72	60	37	2	280				
		108	90	55.5	3	400				
		144	120	74	4	560				
500LJC2000-31	1500 2000 2400	36	31	25	1	250	22	1475	80	670
		72	62	50	2	500				