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VERTICAL TURBINE PUMPS

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VERTICAL TURBINE SUSPENDED PUMPS

INTRODUCTION

VTSP series deep well 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 the impeller & diffuser hydraulic model, excellent performance curve without hump and wide high efficiency range.

The efficiency is 4–8% higher than that of TSP or TSD type deep well pumps in average, for they use whirl sand device and the Bearings.shaft checked by flame method to ensure it's in line. It's a new generation pump design.

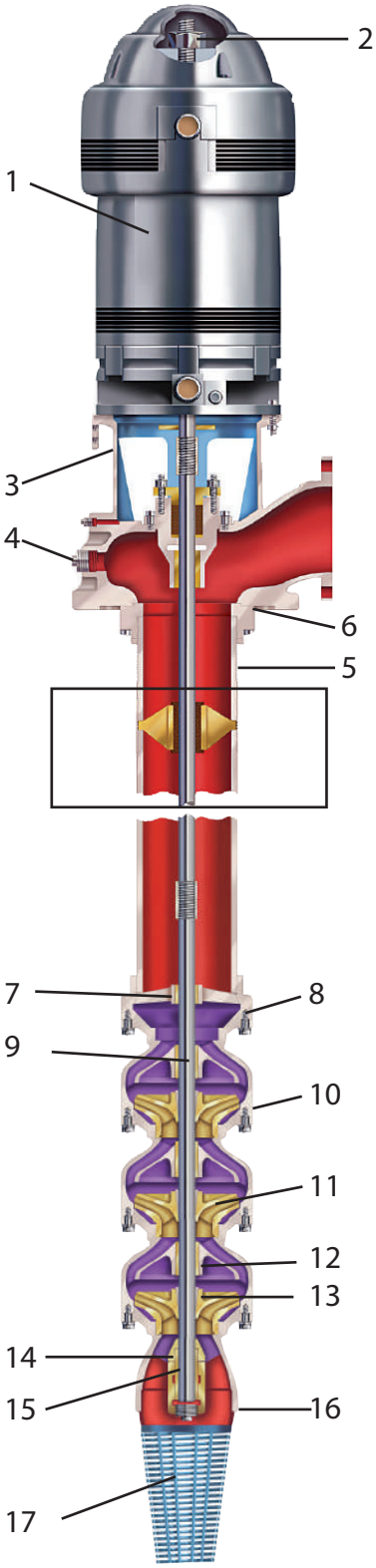
Capacity: ≤5000 m3/h
Head: ≤350 m
Motor Power: 5.5–1600kW
Rated Voltage: 380V, 6kV, 10kV
Well Diameter: 100–950 mm
Max. Discharge Diameter: 650 mm

USAGE

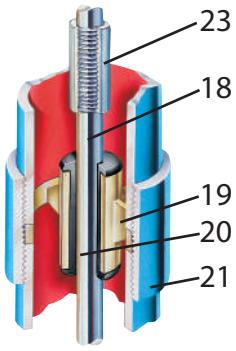
VTSP series deep well pumps are applied ti lift normal temperature clean water without erosive for water power plant (in an overhaul and leakage), power plant (when reduce the temperature in the recycle, and for domestic service), steel works (for scale pit), fire-fighting, urban water supply by water plant and agriculture irrigation.

STRUCTURE EXPLANATION

OPEN TYPE



1、MOTOR
2、ADJUSTING NUT
3、DISCHARGE HEAD
4、PRE-LUBRICATING PLU
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、COUPLING
22、COLUMN
23、COUPLING



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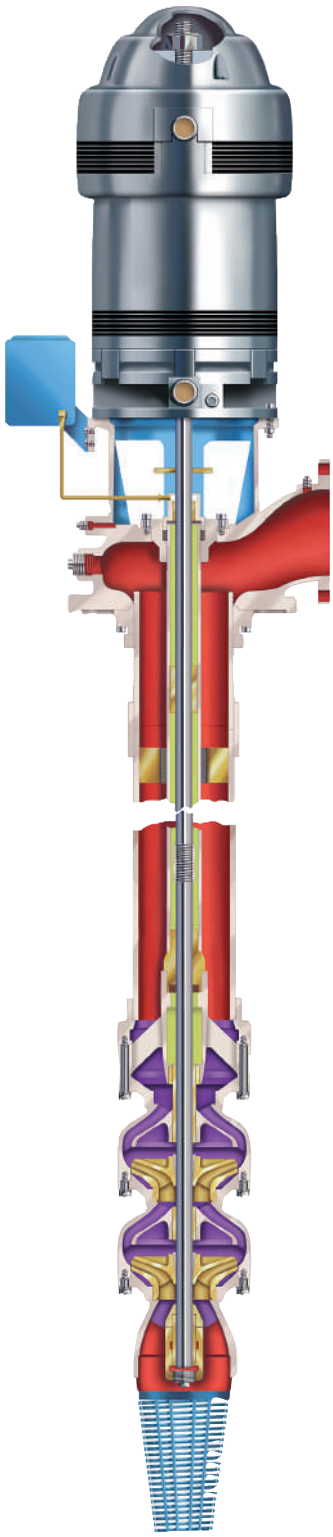
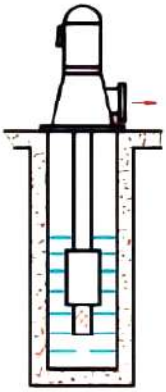
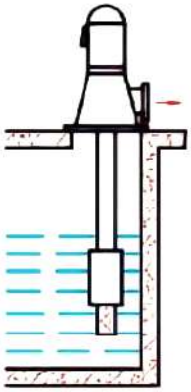


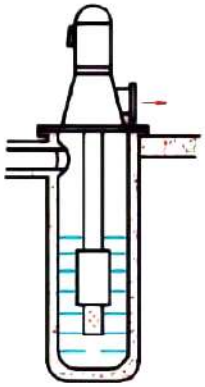
INSTALLATION



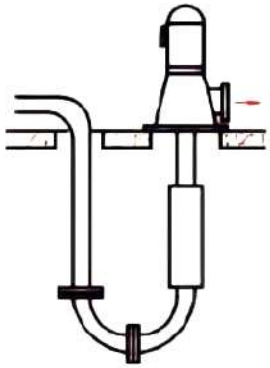
Lift Water From
Deep Well



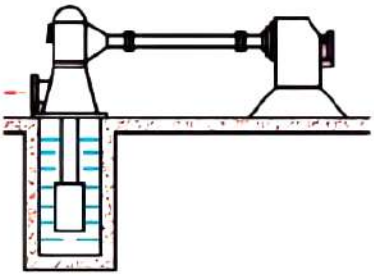
Drain Water From
Cistern



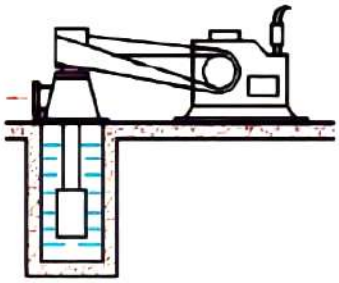
Barrel Mode installation
For Water Drainage



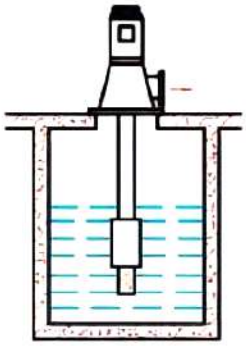
Increase Water Pressure
in Condult



Diesel drived

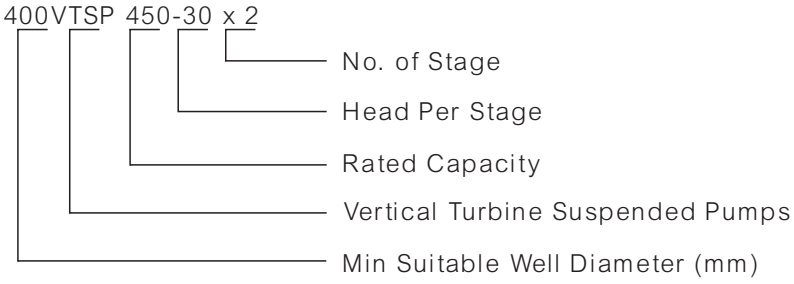


Diesel Drived



Water Drainage in
Special Dustry

MODEL NUMBER DESCRIPTION



BASIC PARAMETERS

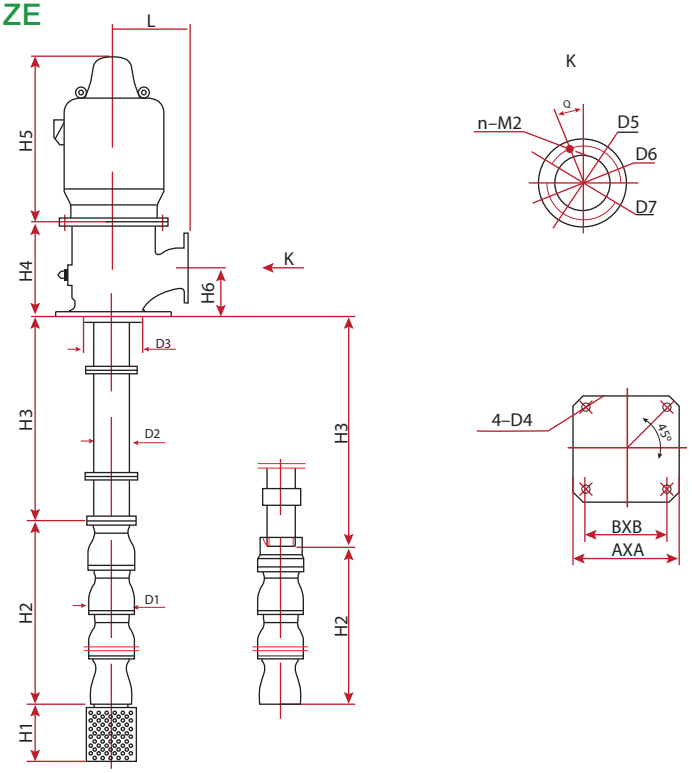
Type	Capacity	Head			Stage	String Quantity	Rotating Speed	Motor Power	Effi	Día
	m³/h	m			i	mm	r/min	kw	%	mm
100VTSP10-4	6.5	44	40	32	10	8	2940	5.5	62	92
		52.5	44	35	11			5.5		
		53	48	38	12			5.5		
		58	52	41.5	13			5.5		
		61.5	56	44.5	14			5.5		
		66	60	48	15			5.5		
		70	64	51	16			5.5		
		74.5	68	54	17			5.5		
	10	79	72	57.5	18			5.5		
		83.5	76	60.5	19			5.5		
		88	80	64	20			5.5		
		92	84	67	21			5.5		
	12	96.5	88	70	22			5.5		
		102	92	73.5	23			5.5		
		105.5	96	76.5	24			5.5		
		110	100	80	25			5.5		
		115	104	83	26			5.5		
150VTSP10-9	8	56	54	40	6	12	2940	5.5	62	138
		65	63	47	7			5.5		
		74.5	72	54	8			5.5		
		84	80	61	9			5.5		
		93	89	67.5	10			5.5		
	10	102.5	98	61.5	11			7.5		
		112	108	81	12			7.5		
		121	117	87.5	13			7.5		
	16	130	126	94.5	14			7.5		
		139.5	135	101	15			11		
		149	144	108	16			11		
150VTSP20-11	15	48	44	39.4	4	12	2940	5.5	67	150
		60	55	49.3	5			5.5		
		72	66	59	6			7.5		
		84	77	69	7			7.5		
		96	88	78.7	8			11		
		108	99	88.6	9			11		
		120	110	98.4	10			11		
	20	132	121	108.2	11			15		
		144	132	118	12			15		
		156	143	128	13			15		
	24	168	154	134	14			15		
		180	165	147.5	15			18.5		
		192	176	157.5	16			18.5		
		204	187	167	17			18.5		

Type	Capacity	Head			Stage	String Quantity	Rotating Speed	Motor Power	Effi	Día
	m³/h	m			i	mm	r/min	kw	%	mm
150VTSP30-12.5	21	55	50	41	4	8	2940	7.5	70	150
		69	62.5	51	5			11		
		82.5	75	61	6			11		
	30	96.2	87.5	71.8	7			15		
		110.4	100	82	8			15		
		124	112.5	92.2	9			15		
	36	138	125	102.5	10			18.5		
		151.6	137.5	112.8	11			22		
		165	150	123	12			22		
150VTSP40-13-5	30	62	54	50	4	8	2940	11	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			22		
		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		
150VTSP50-13	30	66	52	46	4	8	2940	11	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		
200VTSP60-20	40	44	40	30	2	9	2940	11	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		
200VTSP-22.5	60	49	45	38	2	9	2940	15	75	181
	80	73.5	67.5	57	3			22		
		98	90	76	4			30		
	100	122.5	112.5	95	5			37		
200VTSP90-20	67	45	40	28	2	10	2940	15	75	190
		68	60	43	3			22		
	90	91	80	57	4			37		
	119	114	100	72	5			45		
200VTSP125-18	89	21.5	18	15	1	10	2940	11	76	190
		43	36	30	2			18.5		
	125	64.5	54	45	3			30		
	142	86	72	60	4			37		

Type	Capacity	Head			Stage	String Quantity	Rotating Speed	Motor Power	Effi	Día
	m³/h	m			i	mm	r/min	kw	%	mm
250VTSP130-8.5	89 130 150	39	34	28	4	10	1460	18.5	78	242
		49	42.5	35	5			22		
		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			45		
		119	102	84	12			55		
300VTSP160-11.5	125 160 200	39	34.5	28.5	3	14	1460	22	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		
300VTSP185-12	130 185 235	27	24	18.9	2	14	1460	18.5	80	295
		40	36	28.4	3			30		
		54	48	37.8	4			37		
		67	60	47.2	5			45		
		81	72	56.7	6			55		
		94	84	66	7			75		
		108	96	75.6	8			75		
		121	108	85	9			90		
		135	120	94.5	10			90		
300VTSP220-13.5	154 220 264	29	27	22	2	12	1460	22	80	295
		44	40.5	34	3			37		
		59	54	45	4			45		
		74	67.5	57	5			55		
		89	81	68	6			75		
		104	94.5	79	7			90		
		119	108	91	8			90		
350VTSP300-15	230 300 370	35	30	23	2	12	1460	37	80	346
		52.5	45	34.5	3			55		
		70	60	46	4			75		
		87.5	75	57.5	5			90		
		105	90	69	6			110		
		122.5	105	80.5	7			132		

Type	Capacity	Head			Stage	String Quantity	Rotating Speed	Motor Power	Effi	Día
	m³/h	m			i	mm	r/min	kw	%	mm
350VTSP370-16	270	19	16	11.5	1	12	1460	30	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		
350VTSP400-18	280	20.8	18	14	1	12	1460	37	80	346
		41	36	29	2			55		
	400	62	54	43	3			90		
	480	83	72	58	4			110		
		104	90	73	5			132		
400VTSP450-30	290	35	30	25	1	22	1475	55	80	430
		70	60	50	2			110		
	450	105	90	75	3			150		
	540	140	120	100	4			200		
		175	150	125	5			250		
400VTSP550-27	400	29	27	17.5	1	20	1475	55	81	430
		58	54	35	2			110		
	550	87	81	52.5	3			180		
	850	116	108	70	4			225		
		145	135	87.5	5			280		
450VTSP650-32	520	35	32	22	1	20	1475	90	80	520
		70	64	44	2			180		
	650	105	96	66	3			250		
	850	140	128	88	4			350		
		175	160	110	5			400		
450VTSP900-30	600	34	30	24	1	20	1475	110	82	520
		68	60	48	2			225		
	900	102	90	72	3			315		
	1100	136	120	96	4			400		
		170	150	120	5			560		
500VTSP1000-29	790	33	29	21	1	20	1475	110	83	600
		66	58	42	2			225		
	1000	99	87	63	3			350		
	1300	132	116	84	4			450		
500VTSP1250-30	800	36	30	18.5	1	17	1475	150	84	600
		72	60	37	2			280		
	1250	108	90	55.5	3			400		
	1750	144	120	74	4			560		
500VTSP2000-31	1500	36	31	25	1	22	1475	250	80	670
	2000	72	62	50	2			500		
	2400									

INSTALLATION SIZE



Type	l	A	B	D1	D2	D3	D4	D5	D6	D7	H1	H2	H3	H4	H5	H6	L	M1	M2	n	a
100VTSP10-4	10	335	251.4	92	76	200	19	102	186	228	400	1175		343	573	127	228	M16X300	M12	6	30°
	13											1460									
	18											1935									
	23											2410									
	26											2885									
150VTSP10-9	12	335	251.4	150	89	190	19	102	186	228	400	1665		343	573	127	228	M16X300	M12	6	30°
	16	508	382			280		155	235	280		2105		394	807	171.5	305		M16	8	22.5°
	20											2545									
150VTSP20-11	5	335	251.4	150	89	190	19	102	186	228	400	822		343	573	127	228	M16X300	M12	6	30°
	7											1082									
	9	508	382			280		155	235	280		1342		394	807	171.5	305		M16	8	22.5°
	12											1732									
	13											1862									
150VTSP30-12.5	6	508	382	150	114	280	19	155	235	280	400	952		394	807	171.5	305	M16X300	M16	8	22.5°
	9											1212									
	10											1472			850						
	12											1732									
150VTSP40-13.5	4	508	382	150	114	280	19	155	235	280	400	692		394	807	171.5	305	M16X300	M16	8	22.5°
	6											952									
	8											1212			850						
	9											1342									
	10											1472		454	955						
150VTSP50-13	4	508	382	150	114	280	19	155	235	280	400	662		394	807	171.5	305	M16X300	M16	8	22.5°
	5											792									
	6											922			850						
	7											1052									
	8											1182									
	9											1312		453.7	955						

Type	I	A	B	D1	D2	D3	D4	D5	D6	D7	H1	H2	H3	H4	H5	H6	L	M1	M2	n	a
200VTSP60-20	2	508	382	181	159	280	19	155	235	228	400	534		394	807	171.5	305	M16X300	M16	8	22.5°
	3											696			850						
	4											858									
	5											1020		454	955						
	6											1182									
	7											1344									
200VTSP80-22.5	2	508	382	181	159	280	19	155	235	228	400	534		394	807	171.5	305	M16X300	M16	8	22.5°
	3											696			850						
	4											858		454	955						
	5											1020									
200VTSP90-20	2	508	382	190.5	159	280	19	155	235	280	400	549		394	807	171.5	305	M16X300	M16	8	22.5°
	3											714			850						
	4											879		454	955						
	5											1044									
200VTSP125-18	1	508	382	190.5	159	280	19	155	235	280	400	384		394	807	171.5	305	M16X300	M16	8	22.5°
	2											549			850						
	3											714		454	955						
	4											879									
250VTSP130-8.5	4	508	382	242	194	292	19	155	235	280	470	1176		454	850	171.5	305	M16X300	M16	8	22.5°
	6											1603			955						
	8											2029									
	10											2456									
	12					320		207	298.5	343		2883		564.5	1084	190.5	330				
300VTSP160-11.5	4	508	382	295	194	292	19	155	235	280	470	1293		454	955	171.5	305	M16X300	M16	8	22.5°
	6											1781									
	8					320		207	298.5	343		2269		565	1084	190.5	330				
	10											2757									
	12											3245									
300VTSP185-12	2	508	382	295	194	292	19	155	235	280	470	805		454	850	171.5	305	M16X300	M16	8	22.5°
	3											1049			955						
	5											1537									
	6					320		207	298.5	343		1781		565	1084	190.5	330				
	8											2269									
	10											2757									
300VTSP220-13.5	2	508	382	295	194	292	19	155	235	280	470	805		454	850	171.5	305	M16X300	M20	8	15°
	4											1293			955						
	5					320		207	298.5	343		1537		565	1084	190.5	330				
	6											1781									
	8											2269									
350VTSP300-15	2	560	408	346	219	405	23	257	350	395	470	851		470	955	245	355	M20X300	M20	12	15°
	3											1143			1049						
	5											1727									
	7											2311			1140						
350VTSP370-16	1	560	408	346	219	405	23	257	350	395	470	559		470	955	245	355	M20x300	M20	12	15°
	2											851									
	3											1143			1049						
	4											1435									
	5											1727			1140						
	6											2019									
350VTSP400-18	1	560	408	346	219	405	23	257	350	395	470	559		470	955	245	355	M20x300	M20	12	15°
	2											851									
	3											1143			1049						
	4											1435									
	5											1727			1140						

SUBMERSIBLE DEEP WELL PUMPS

INTRODUCTION

VTP series submersible deep well pumps consist of motor and pump assembly, the structure is reasonable, easy to install and maintain, and with advanced hydraulic model, they adopting the core produced with the resin sand and the vane runners adopting the new technique that topcoated with epoxy. high efficiency which is 2~5% higher than that of VT type submersible turbine pump as well. They are modern machine for lifting water.

Capacity: ≤2000 m3/h
Head: ≤350 m
Motor Power: 5.5–650kW
Rated Voltage: 380V, 6kV, 10kV
Well Diameter: 100–750 mm
Max. Discharge Diameter: 450 mm

USAGE

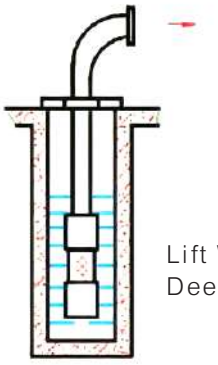
VTP Deep Well Pump is used to lifting normal temperature clean water without corrosion from well, in discharging from cistern or river, supplying water for high - rise and drainage and for water supply and drainage in works and urban area, and lifting underground water etc.

MODEL NUMBER DESCRIPTION

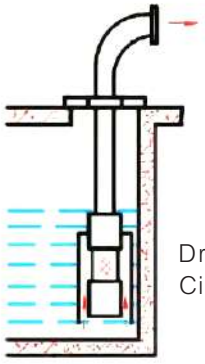
300VTP 200-24 x 2

- No. of Stage
- Head Per Stage
- Rated Capacity
- Submersible Deep Well Pumps
- Min Suitable Well Diameter (mm)

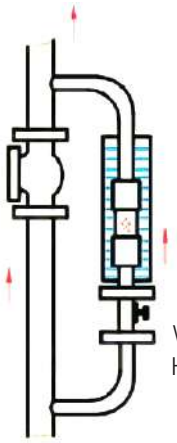
INSTALLATION



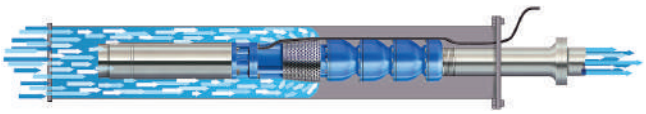
Lift Water From
Deep Well



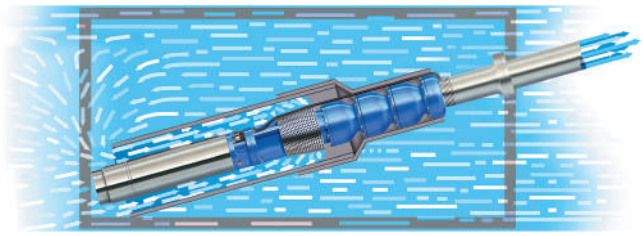
Drain Water From
Cistern River



Water Supply For
High Building

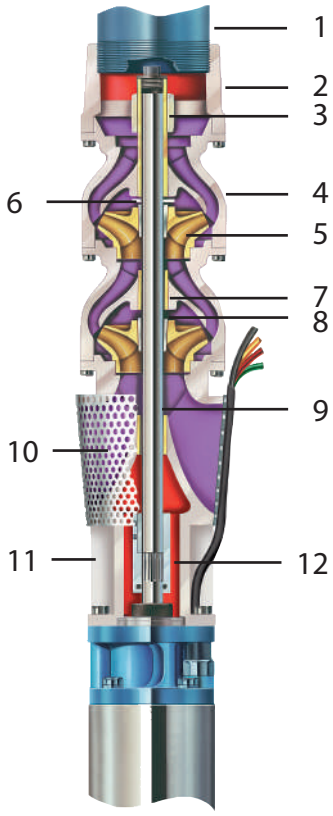


Horizontal Type



Tilted style

STRUCTURE EXPLANATION



1、DISCHARGE PIPE
2、DISCHARGE BOWL
3、UPPER BOWL BEARING
4、INTERMEDIATE BOWL
5、IMPELLER
6、CHECK VALVE
7、BOWL BEARING
8、LOCK COLLET
9、IMPELLER SHAFT
10、STRAINER
11、MOTOR TIE–IN
12、COUPLING

BASIC PARAMETERS

Type	Capacity	Head			Stage	Rotating Speed	Motor Power	Effi	Día
	m³/h	m			i	r/min	kw	%	mm
150VTP12-8.5	10 12 16	33	25.5	22.5	3	2850	3	65	143
		40	34	30	4		3		
		48	42.5	37.5	5		3		
		54	51	45	6		4		
		63	59.5	52.5	7		4		
		72	68	60	8		5.5		
		81	76.5	67.5	9		5.5		
		90	85	75	10		5.5		
		99	93.5	82.5	11		7.5		
		108	102	90	12		7.5		
		117	110.05	97.5	13		7.5		
		126	119	105	14		7.5		
		135	127.5	112.5	15		9.2		
		144	136	120	16		9.2		
		153	144.5	127	17		9.2		
150VTP20-8.5	15 20 29	38	34	23	4	2850	4	70	143
		48	42.5	29	5		4		
		58	51	35	6		5.5		
		67	59.5	41	7		5.5		
		77	68	47	8		7.5		
		87	76.5	53	9		7.5		
		96.5	85	58.5	10		9.2		
		106	93.5	64	11		9.2		
		116	102	70	12		11		
		125.5	110.5	76	13		11		
		135	119	82	14		11		
		145	127.5	88	15		13		
		155	136	94	16		13		
		165	144.5	100	17		15		
150VTP30-9	25 30 35	30	27	22.5	3	2850	4	71	143
		40	36	30	4		5.5		
		50	45	37.5	5		7.5		
		60	54	45	6		7.5		
		70	63	52.5	7		9.2		
		80	72	60	8		11		
		90	81	67.5	9		11		
		100	90	75	10		13		
		110	99	82.5	11		15		
		120	108	90	12		15		

Type	Capacity	Head			Stage	Rotating Speed	Motor Power	Effi	Día
	m³/h	m			i	r/min	kw	%	mm
150VTP45-8	35	27.9	24	21	3	2850	5.5	73	143
		37.2	32	28	4		7.5		
	45	46.5	40	35	5		7.5		
		55.8	48	42	6		9.2		
		65.1	56	49	7		11		
	52.5	74.4	64	56	8		13		
		83.7	72	63	9		15		
		93	80	70	10		15		
175VTP20-11	15	48	44	39	4	2850	4	70	168
		60	55	49	5		5.5		
		72	66	58.6	6		5.5		
		84	77	68	7		7.5		
		96	88	78	8		7.5		
	20	108	99	88	9		9.2		
		120	110	97.7	10		9.2		
	24	132	121	108	11		11		
		144	132	117.3	12		11		
		156	143	127	13		13		
		168	154	137	14		13		
		180	165	147	15		15		
175VTP30-12	21	43	36	30	3	2850	5.5	74	168
		58	48	40	4		7.5		
		72.5	60	50	5		9.2		
		87	72	61	6		11		
		101	84	71	7		11		
	30	116	96	80	8		13		
		130	108	90	9		15		
	36	145	120	100	10		18.5		
		159	132	110	11		18.5		
		174	145	120	12		22		
		188	156	130	13		22		
175VTP40-12	30	38	36	32	3	2850	7.5	75	168
		51	48	43	4		9.2		
		64	60	54	5		11		
	40	77	72	65	6		13		
		90	84	76	7		15		
	46	102	96	86	8		18.5		
		114	108	96	9		22		
		127	120	107	10		22		

Type	Capacity	Head			Stage	Rotating Speed	Motor Power	Effi	Día
	m³/h	m			i	r/min	kw	%	mm
225VTP60-18	42 60 72	20.5	18	15	1	2880	5.5	75	220
		41	36	30	2		9.2		
		61.5	54	45	3		13		
		82	72	60	4		18.5		
		102.5	90	75	5		22		
		123	108	90	6		30		
		143.5	126	105	7		30		
		164	144	120	8		37		
225VTP100-12.5	75 100 120	33	25	18	2	2880	11	75	220
		49	37.5	27	3		15		
		65	50	36	4		22		
		82	62.5	45	5		30		
		98	75	54	6		30		
		114	87.5	63	7		37		
		130	100	72	8		45		
225VTP130-13.5	92 130 140	33	27	26	2	2880	15	75	220
		49	40.5	39	3		22		
		65	54	52	4		30		
		82	67.5	65	5		37		
		98	81	78	6		45		
250VTP90-18	67 90 118	41	36	26	2	2880	15	75	220
		62	54	39	3		22		
		83	72	52	4		30		
		104	90	65	5		37		
		125	108	78	6		45		
250VTP125-16	89 125 142	39	32	26	2	2880	18.5	76	220
		58	48	39	3		30		
		78	64	52	4		37		
		98	80	66	5		45		
300VTP120-28	84 120 144	32.8	28	23	1	2900	13	76	250
		65.6	56	46	2		30		
		98.4	84	69	3		45		
		131.2	112	92	4		55		
		164	140	115	5		75		
300VTP170-34	119 170 204	38	34	29	1	2900	30	75	250
		76	68	58	2		55		
		114	102	87	3		75		
		152	136	116	4		100		

Type	Capacity	Head			Stage	Rotating Speed	Motor Power	Effi	Día
	m³/h	m			i	r/min	kw	%	mm
300VTP200-24	130 200 245	31	24	18.5	1	2900	18.5	76	250
		62	48	37	2		37		
		93	72	55.5	3		55		
		124	96	74	4		75		
		155	120	92.5	5		100		
300VTP250-22	165 250 280	29	22	18.5	1	2900	22	75	220
		58	44	37	2		45		
		87	66	55.5	3		75		
		116	88	74	4		90		
		145	110	92	5		125		
350VTP250-46	200 250 330	52	46	33	1	2900	55	80	330
		104	92	66	2		100		
		156	138	99	3		140		
		208	184	132	4		185		
350VTP290-50	220 290 360	56	50	41	1	2900	63	80	330
		112	100	82	2		120		
		168	150	123	3		185		
350VTP320-53	245 320 400	59.5	53	44	1	2900	75	80	330
		119	106	88	2		140		
		178	159	132	3		220		
350VTP370-47	258 370 466	53	47	37	1	2900	75	80	330
		106	94	74	2		140		
		159	141	111	3		220		
350VTP450-50	305 450 524	57	50	43	1	2900	90	80	330
		114	100	86	2		180		
450VTP500-63	343 500 694	76	63	43	1	2900	140	78	400
		152	126	86	2		280		
450VTP800-24	400 800 1000	27	24	20	1	2900	75	80	430
		54	48	40	2		150		
		81	72	60	3		250		
500VTP550-27	400 550 850	29	27	17.5	1	1475	63	81	480
		58	54	35	2		110		
		87	81	52.5	3		180		
		116	108	70	4		250		
550VTP900-30	600 900 1100	34	30	24	1	1475	110	82	530
		68	60	48	2		220		

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