



**STAIRS**

**50Hz**

# ST SERIES PLASTIC PUMPS

ISO  
9001



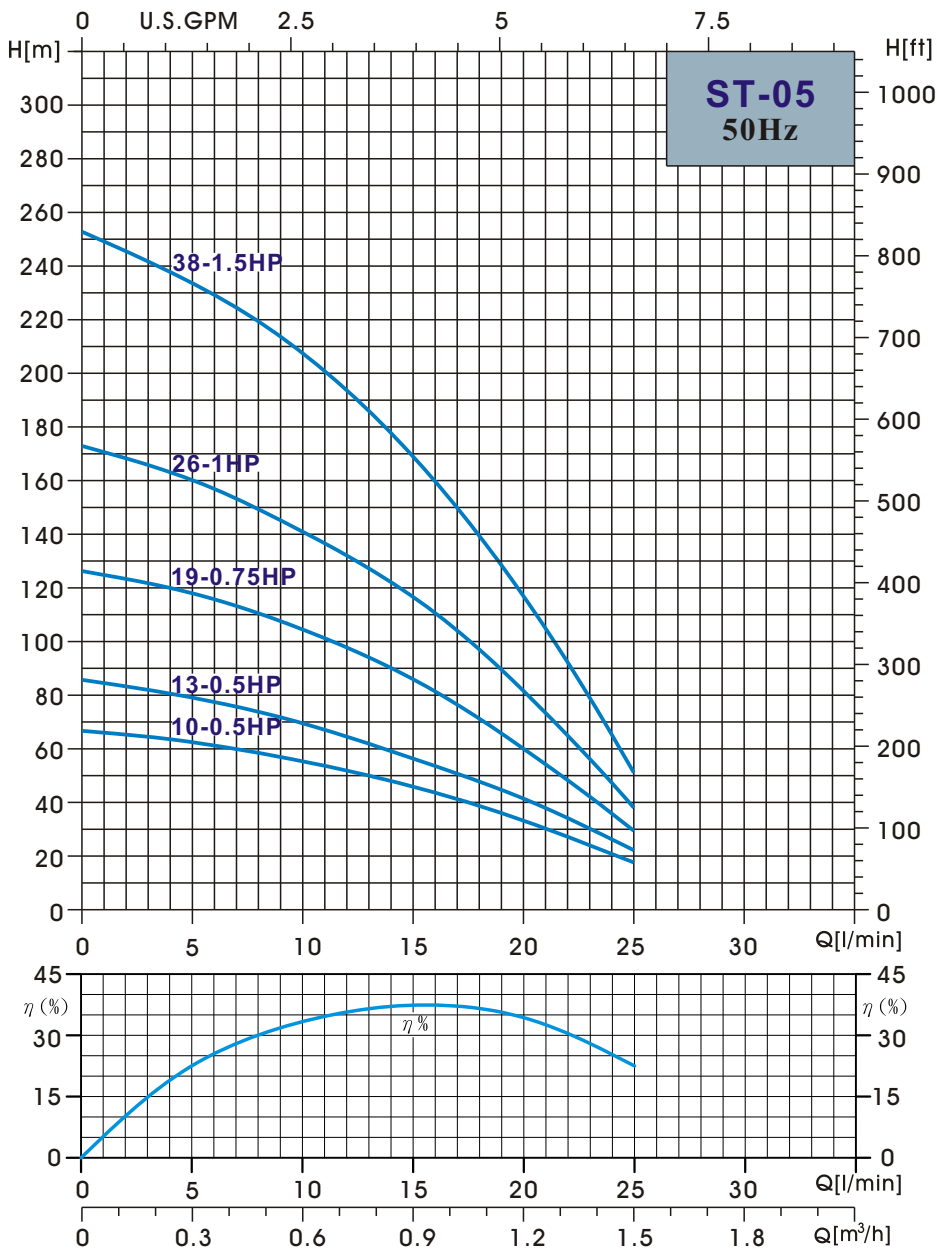
STAIRS PUMPS			
TYPE	ST800S	H.P.	2
Q	60 GPM	H	80 FT
Max. Head	150 FT	RPM	3450
Max. Cable Length	N/A (0-5049811)		

STAIRS PUMPS			
TYPE	ST350S	H.P.	2
Q	55 GPM	H	100 FT
Max. Head	104 FT	RPM	3450
Max. Cable Length	N/A (0-5049811)		

STAIRS PUMPS			
TYPE	ST400S	H.P.	1.5
Q	40 GPM	H	100 FT
Max. Head	152 FT	RPM	3450
Max. Cable Length	N/A (0-5049811)		

# ST-05

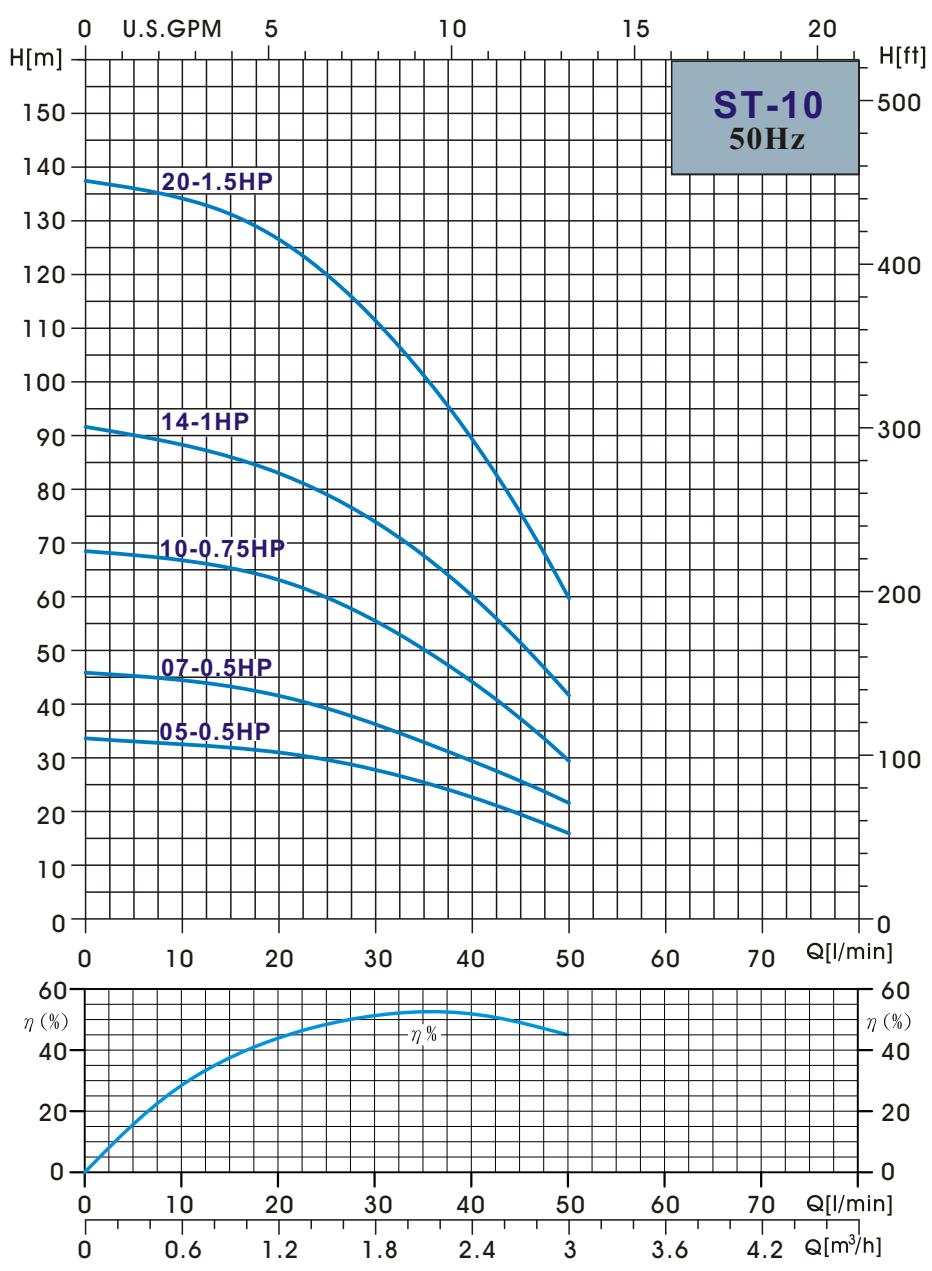
## Performance Curves



Selection Chart																				
PUMP TYPE	Stages	Motor		Q=DELIVERY															PUMP	
		KW	HP	l/min	5	10	15	20	25	30	35	40	45	50	60	70	80	Length (mm)	Weight (kg)	
				0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.6	4.2	4.8			
H=TOTAL HEAD IN METERS																				
ST-0510	10	0.37	0.5	67	63	55	46	33	18									324	3.3	
ST-0513	13	0.37	0.5	86	78	70	56	42	23									377	3.7	
ST-0519	19	0.55	0.75	126	118	105	86	60	30									481	4.7	
ST-0526	26	0.75	1.0	173	160	141	117	81	39									642	5.8	
ST-0538	38	1.1	1.5	253	234	208	169	117	52									864	8.2	

# ST-10

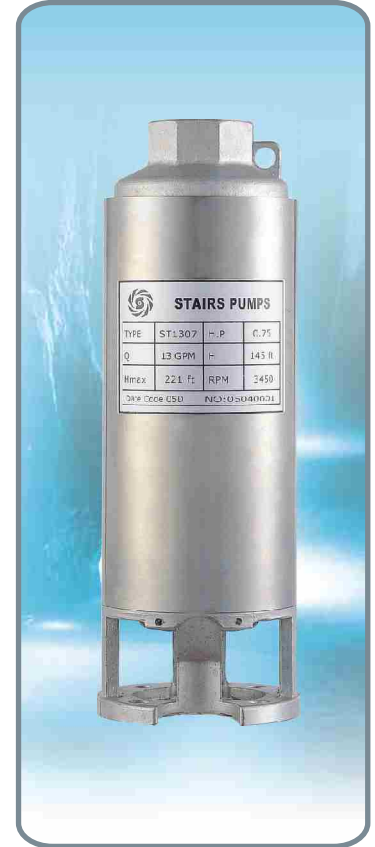
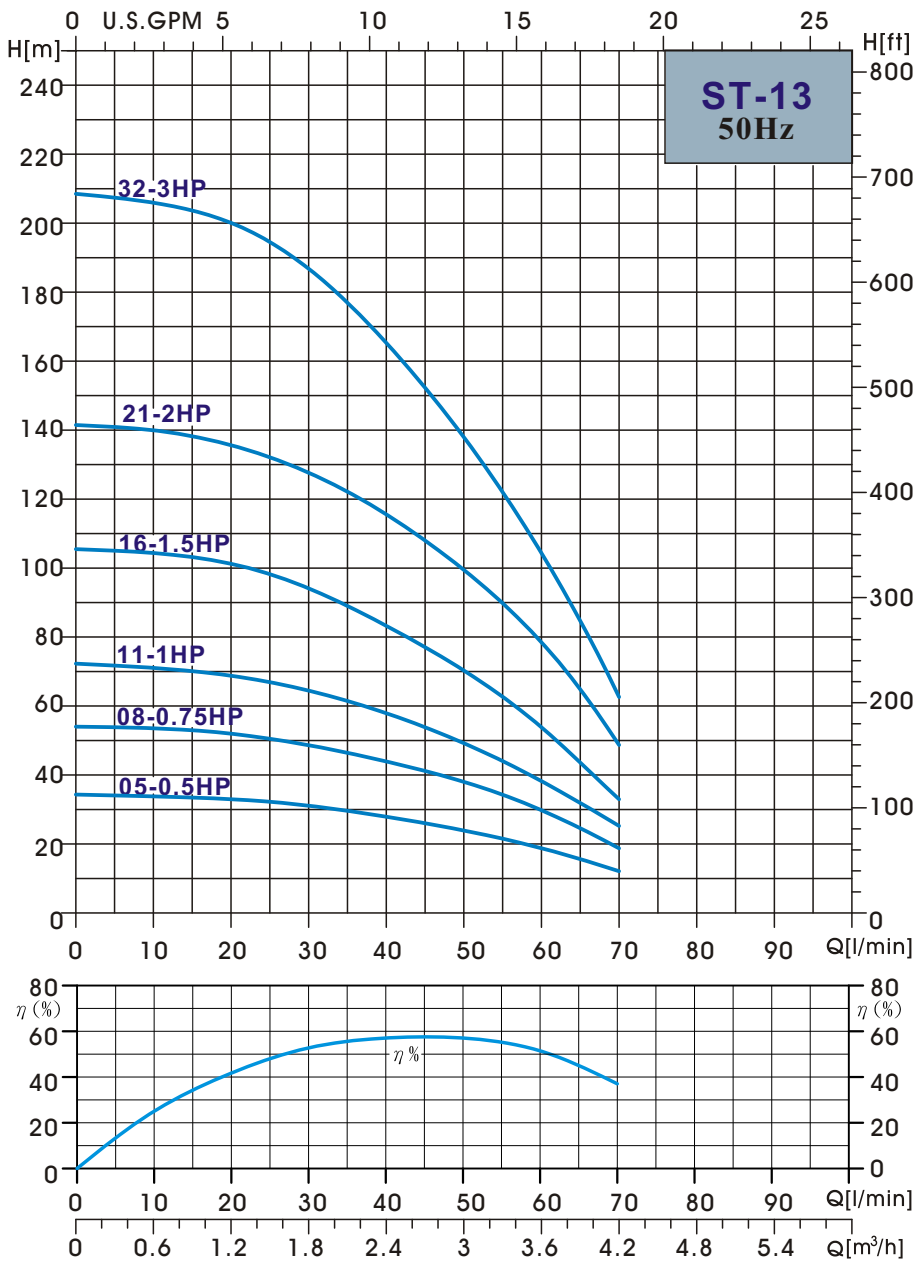
## Performance Curves



Selection Chart																				
PUMP TYPE	Stages	Motor		Q=DELIVERY														PUMP		
				l/min	0	5	10	15	20	25	30	35	40	45	50	60	70			80
		KW	HP	m³/h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.6	4.2	4.8	Length (mm)	Weight (kg)
H=TOTAL HEAD IN METERS																				
ST-1005	5	0.37	0.5	34				32	31	29	27	25	23	19	16				236	2.5
ST-1007	7	0.37	0.5	46				43	42	39	36	33	29	26	22				271	2.8
ST-1010	10	0.55	0.75	69				65	63	60	55	50	44	37	29				324	3.3
ST-1014	14	0.75	1.0	92				86	83	79	74	67	60	52	42				394	3.9
ST-1020	20	1.1	1.5	139				131	127	120	111	101	90	75	60				499	4.9

# ST-13

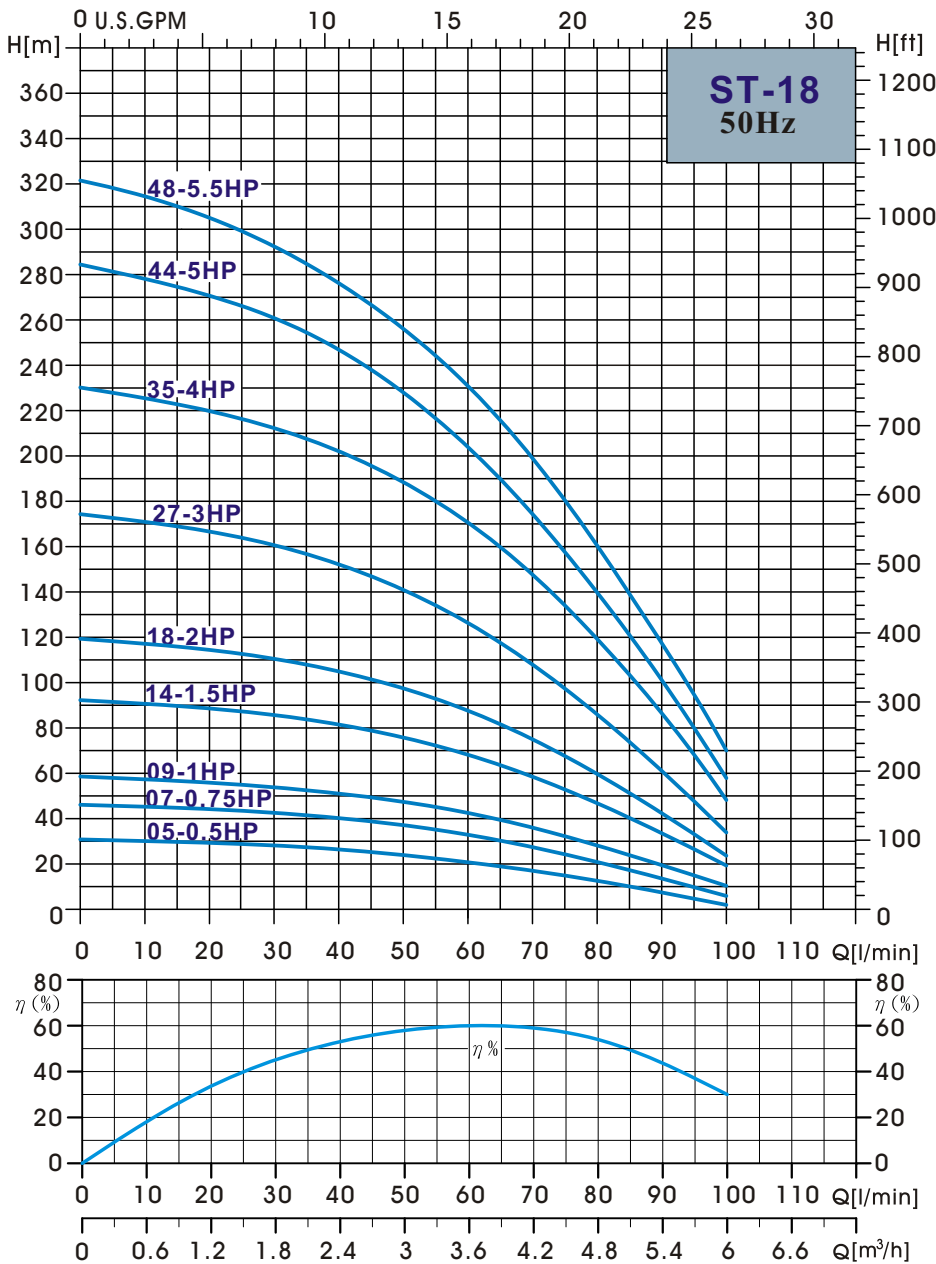
## Performance Curves



Selection Chart																					
PUMP TYPE	Stages	Motor		Q=DELIVERY																PUMP	
				l/min	0	5	10	15	20	25	30	35	40	45	50	60	70	80	Length (mm)		
		KW	HP	m <sup>3</sup> /h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.6	4.2	4.8			
		H=TOTAL HEAD IN METERS																			
ST-1305	5	0.37	0.5	34					32	31	30	29	28	26	24	19	13		236	2.5	
ST-1308	8	0.55	0.75	54					51	50	49	46	43	41	38	30	19		289	2.9	
ST-1311	11	0.75	1.0	72					68	66	64	61	58	54	49	38	26		342	3.4	
ST-1316	16	1.1	1.5	106					101	98	95	89	83	77	70	54	33		430	4.2	
ST-1321	21	1.5	2.0	142					135	132	127	122	115	108	100	79	49		519	5.0	
ST-1332	32	2.2	3.0	208					200	194	187	177	165	152	138	104	62		749	7.1	

# Performance Curves

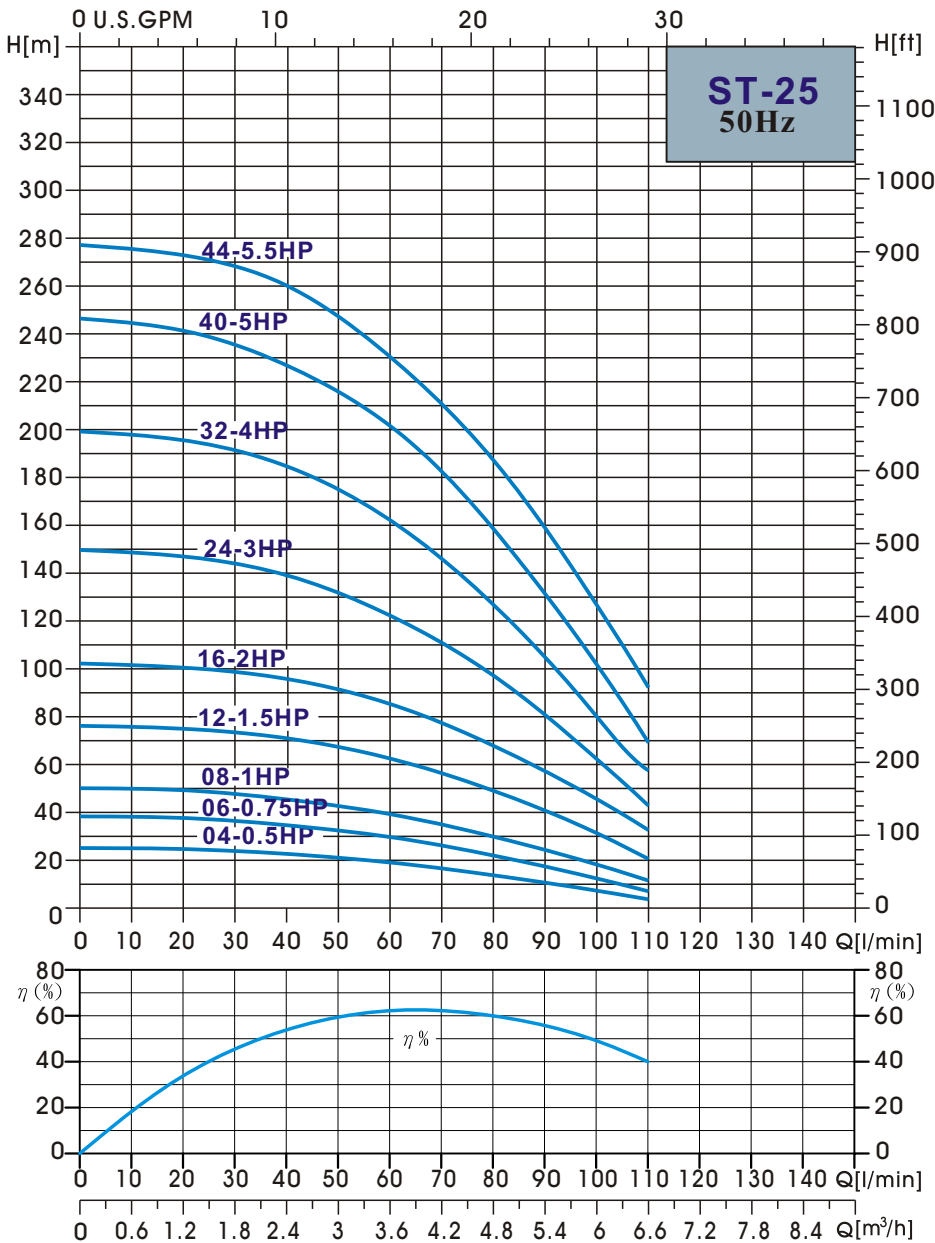
# ST-18



Selection Chart																					
PUMP TYPE	Stages	Motor		Q = DELIVERY																PUMP	
		KW	HP	l/min	15	20	25	30	35	40	45	50	60	70	80	90	100	120	Length (mm)	Weight (kg)	
				m³/h	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.6	4.2	4.8	5.4	6.0	7.2			
H = TOTAL HEAD IN METERS																					
ST-1805	5	0.37	0.5	33			29	28	27	26	25	24	21	18	13	8	3		257	2.7	
ST-1807	7	0.55	0.75	46			43	42	41	40	39	37	33	28	21	13	7		301	3.0	
ST-1809	9	0.75	1.0	59			55	54	52	51	49	47	43	37	28	20	10		344	3.3	
ST-1814	14	1.1	1.5	93			87	86	83	81	79	76	68	58	47	33	20		452	4.1	
ST-1818	18	1.5	2.0	120			113	111	108	105	102	98	88	75	60	42	25		538	4.7	
ST-1827	27	2.2	3.0	175			164	161	157	152	147	141	127	109	87	61	35		767	6.2	
ST-1835	35	3.0	4.0	231			217	212	208	202	196	189	170	149	120	87	50		934	7.9	
ST-1844	44	3.7	5.0	285			266	260	254	248	238	229	203	172	139	100	59		1128	9.3	
ST-1848	48	4.0	5.5	322			299	292	285	276	267	256	231	199	160	118	70		1253	9.9	

# ST-25

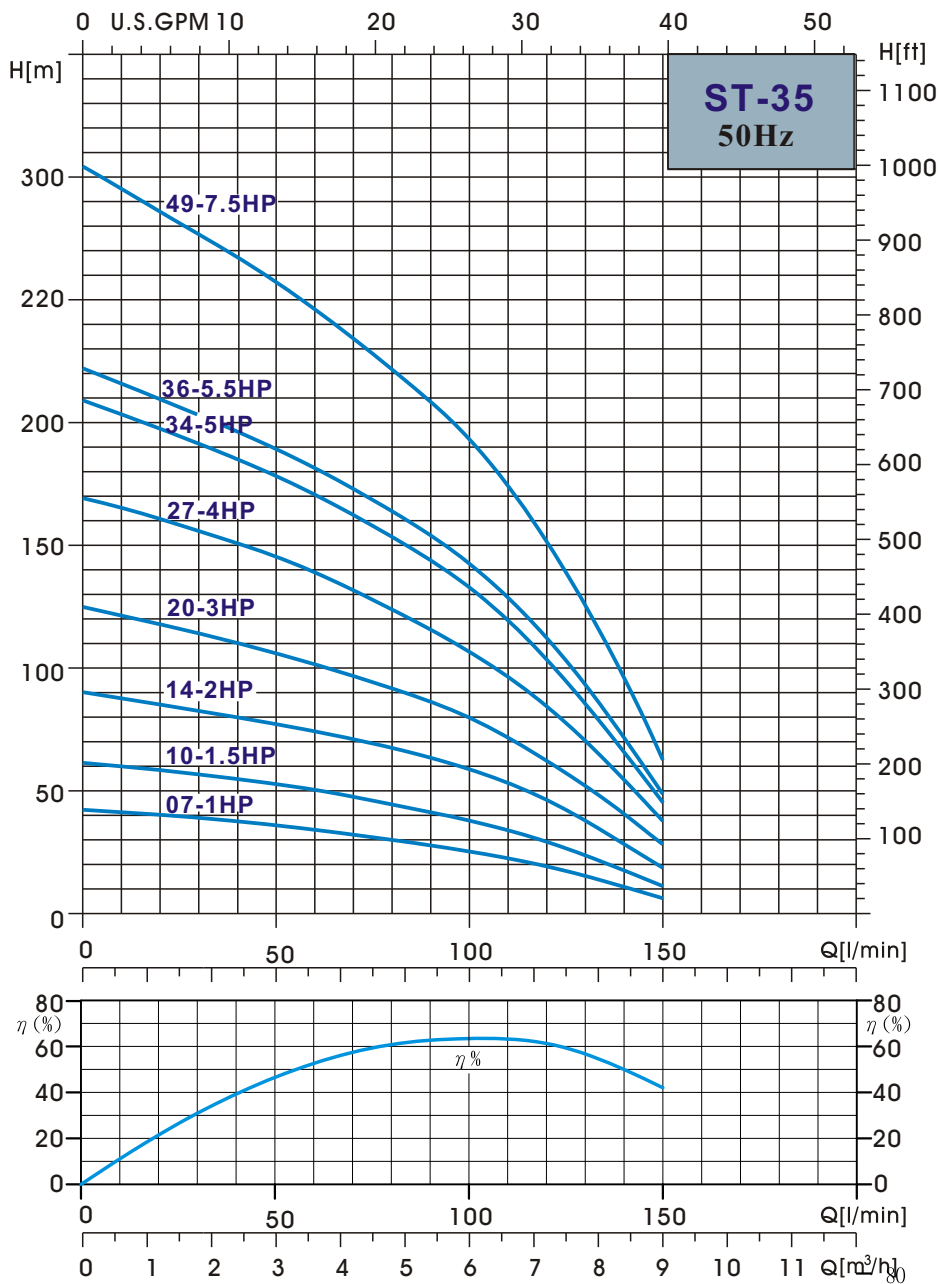
## Performance Curves



Selection Chart																						
PUMP TYPE	Stages	Motor		Q=DELIVERY																	PUMP	
				l/min 0	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200	220	Length	Weight
		m³/h 0	1.8	2.1	2.4	2.7	3.0	3.6	4.2	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12	13	(mm)	(kg)		
H=TOTAL HEAD IN METERS																						
ST-2504	4	0.37	0.5	26		23	22	22	21	19	17	14	11	7						247	2.4	
ST-2506	6	0.55	0.75	38		36	35	33	32	30	26	22	18	12						296	2.9	
ST-2508	8	0.75	1.0	51		47	46	44	43	39	35	30	24	18						345	3.3	
ST-2512	12	1.1	1.5	77		72	71	69	68	63	57	49	41	31						433	4.1	
ST-2516	16	1.5	2.0	102		98	96	94	92	86	77	68	57	46						542	5.0	
ST-2524	24	2.2	3.0	151		142	139	136	132	122	111	97	80	62						777	6.6	
ST-2532	32	3.0	4.0	203		188	185	180	175	162	146	127	105	80						965	8.7	
ST-2540	40	3.7	5.0	253		232	227	222	216	202	182	159	131	102						1160	10.4	
ST-2544	44	4.0	5.5	278		265	260	254	247	230	210	187	159	127						1296	11.2	

# ST-35

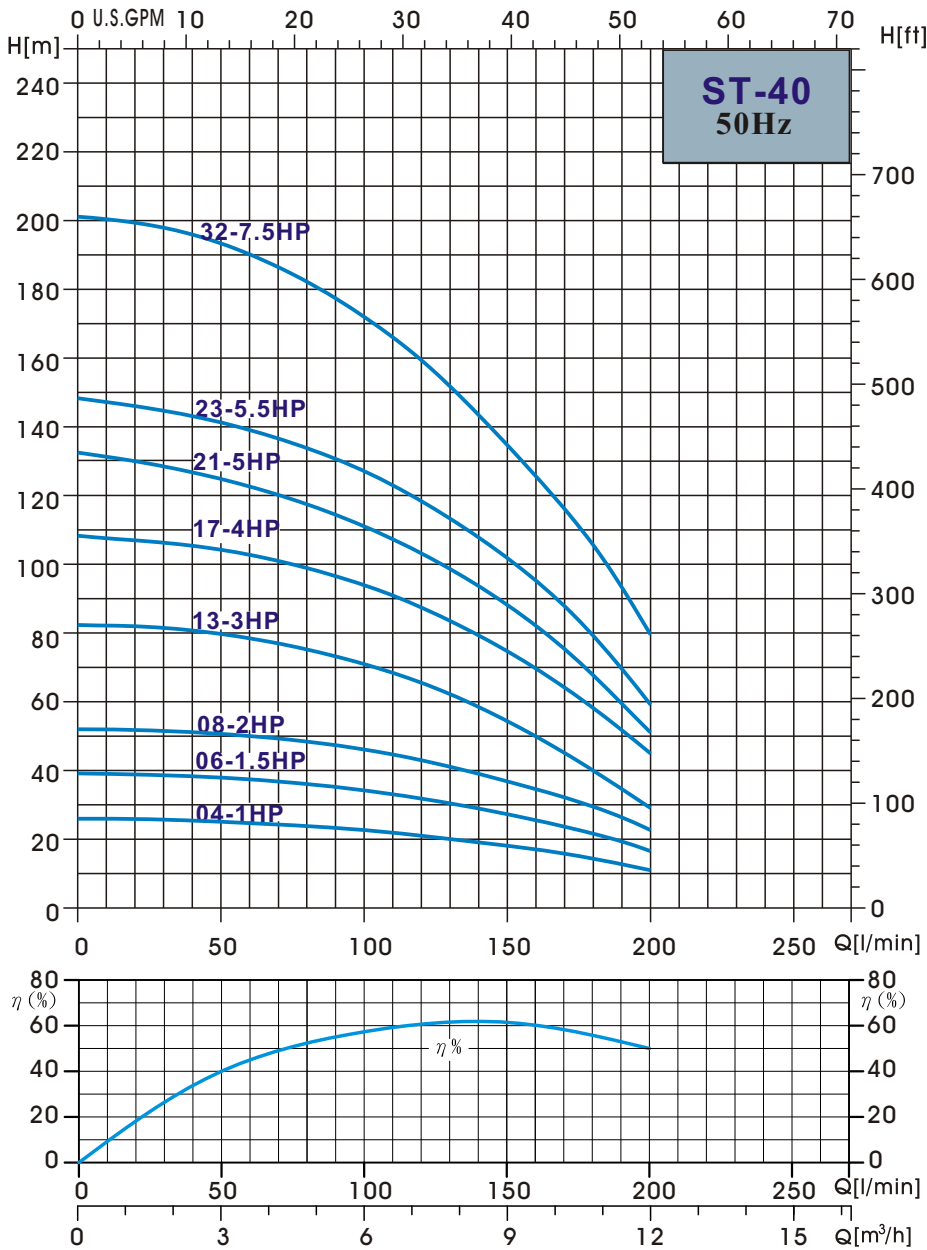
## Performance Curves



Selection Chart																					
PUMP TYPE	Stages	Motor		Q = DELIVERY																PUMP	
				l/min 0	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200	220	Length (mm)
		KW	HP	m³/h 0	1.8	2.1	2.4	2.7	3.0	3.6	4.2	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12	13	
H = TOTAL HEAD IN METERS																					
ST-3507	7	0.75	1.0	42					36	34	32	30	28	25	19	11				390	3.7
ST-3510	10	1.1	1.5	62					53	51	48	45	41	38	29	18				483	4.6
ST-3514	14	1.5	2.0	90					77	74	71	68	63	59	46	28				607	5.7
ST-3520	20	2.2	3.0	125					107	102	97	92	86	80	62	40				831	7.5
ST-3527	27	3.0	4.0	169					145	139	131	123	115	107	84	55				1048	9.6
ST-3534	34	3.7	5.0	208					178	170	162	153	143	132	103	66				1257	11.6
ST-3536	36	4.0	5.5	221					190	181	173	164	154	143	112	72				1318	12.2
ST-3549	49	5.5	7.5	302					257	246	234	222	209	193	151	96				1802	15.9

# ST-40

## Performance Curves

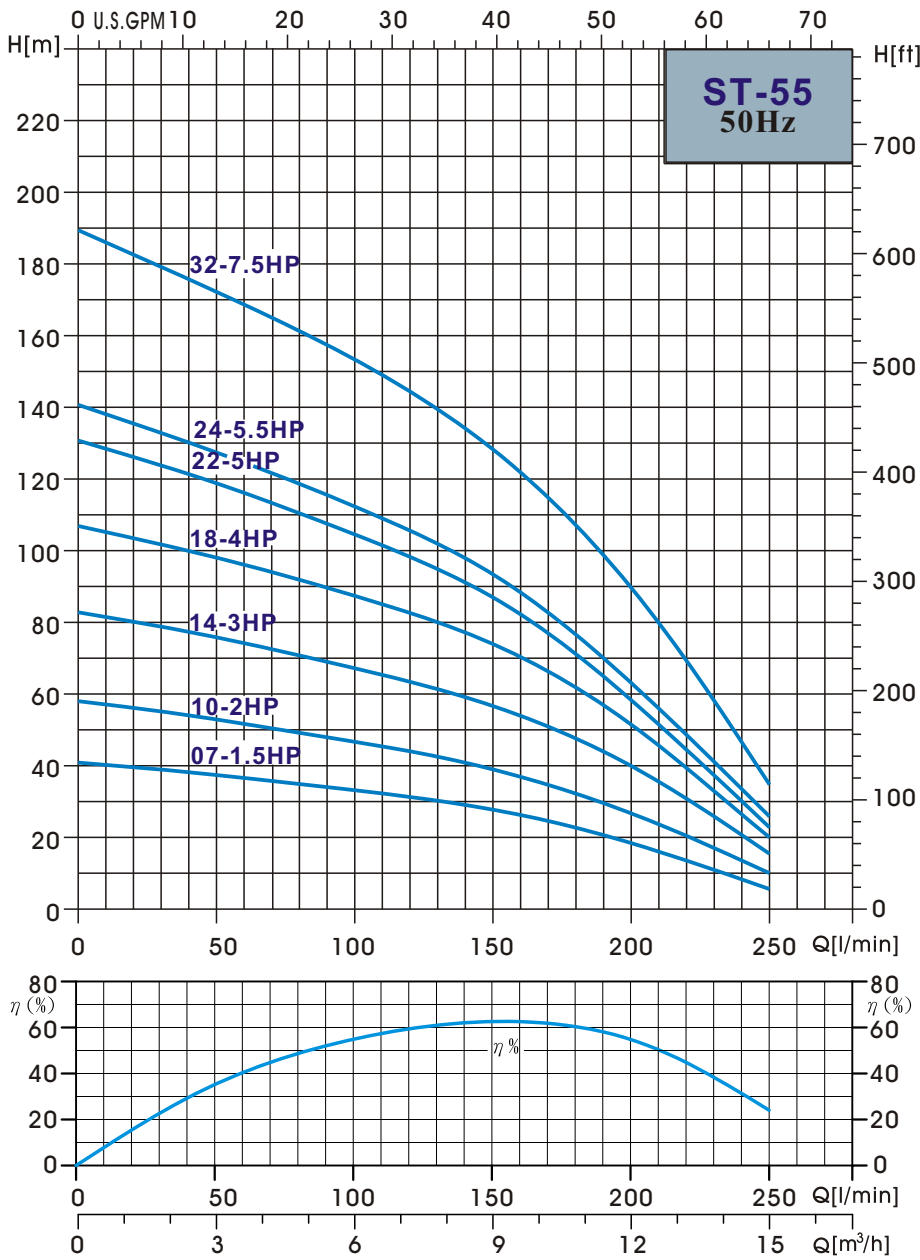


Selection Chart																								
PUMP TYPE	Stages	Motor		Q=DELIVERY																PUMP				
				l/min 0	30	35	40	45	50	60	70	80	90	100	120	140	160	180	200			220		
		KW	HP	m³/h 0	1.8	2.1	2.4	2.7	3.0	3.6	4.2	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12	13	Length (mm)	Weight (kg)		
H=TOTAL HEAD IN METERS																								
ST-4004	4	0.75	1.0	26										24	23	22	21	19	17	15	12		294	2.8
ST-4006	6	1.1	1.5	39										36	35	34	32	29	26	22	17		356	3.4
ST-4008	8	1.5	2.0	52										48	47	46	43	39	35	29	24		418	4.0
ST-4013	13	2.2	3.0	82										75	73	71	66	59	50	40	30		573	5.5
ST-4017	17	3.0	4.0	108										98	96	94	87	79	70	58	46		697	6.6
ST-4021	21	3.7	5.0	132										117	114	111	103	93	82	68	52		859	7.8
ST-4023	23	4.0	5.5	148										134	131	127	118	108	95	79	60		921	8.4
ST-4032	32	5.5	7.5	202										182	178	172	160	143	125	105	80		1238	11.0



# ST-55

## Performance Curves

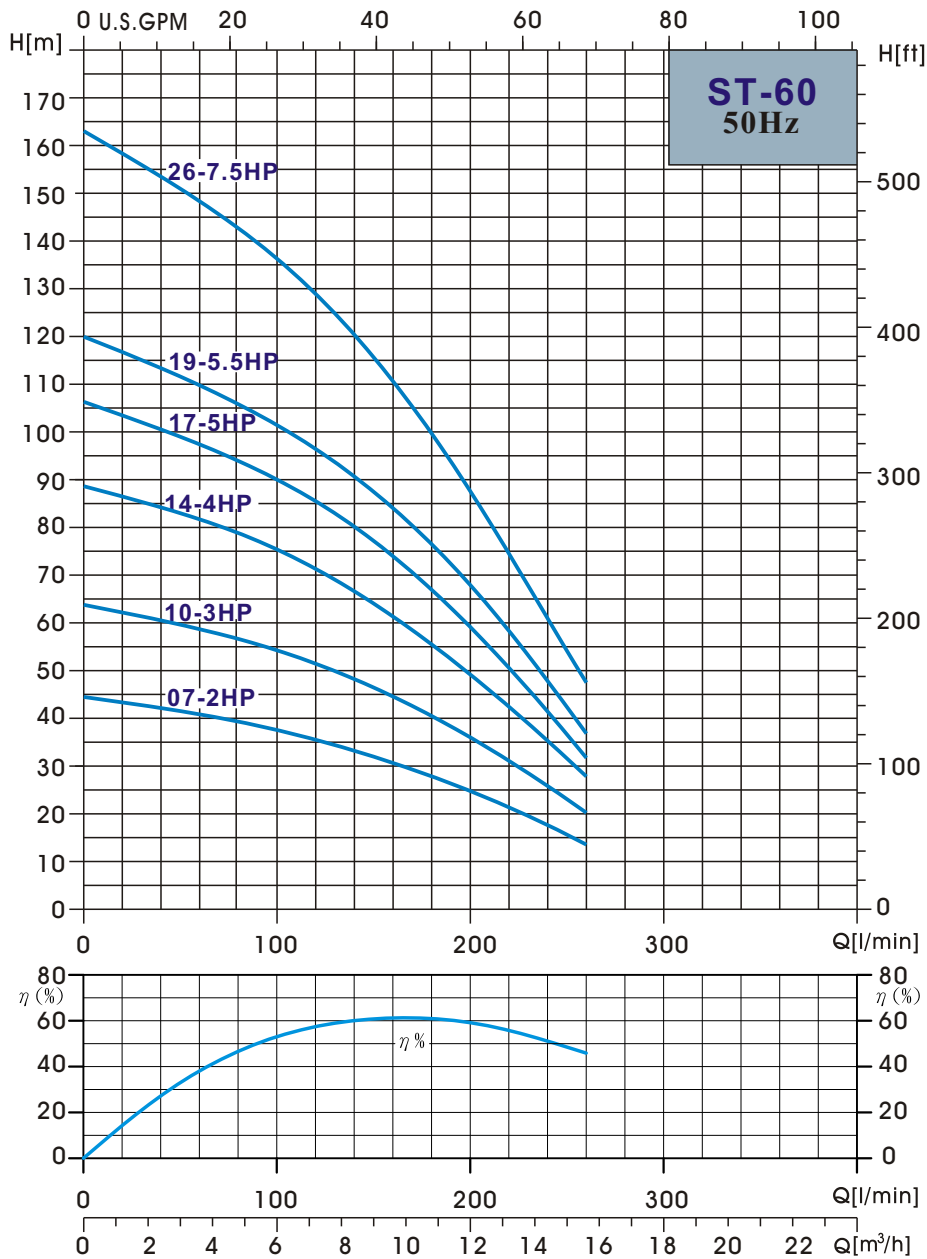


Selection Chart

PUMP TYPE	Stages	Motor		Q=DELIVERY																	PUMP	
				l/min	70	80	90	100	120	140	160	180	200	220	240	260	280	300	320	340		
				0	4.2	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12	13	14.4	16	17	18	19	20		
				H=TOTAL HEAD IN METERS																	Length	Weight
				0	4.2	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12	13	14.4	16	17	18	19	20	(mm)	(kg)
ST-5507	7	1.1	1.5	41		35	34	33	32	29	26	23	18	14	8						537	5.3
ST-5510	10	1.5	2.0	58		49	48	47	44	41	37	32	27	20	13						693	6.7
ST-5514	14	2.2	3.0	83		71	69	67	63	58	54	48	40	31	20						901	8.5
ST-5518	18	3.0	4.0	107		92	90	87	83	77	70	62	52	39	26						1147	10.4
ST-5522	22	3.7	5.0	131		110	107	104	98	91	82	71	58	45	30						1345	12.3
ST-5524	24	4.0	5.5	141		118	116	113	106	97	88	77	63	49	33						1449	13.2
ST-5532	32	5.5	7.5	189		162	157	153	144	134	122	107	90	70	47						1866	17

# ST-60

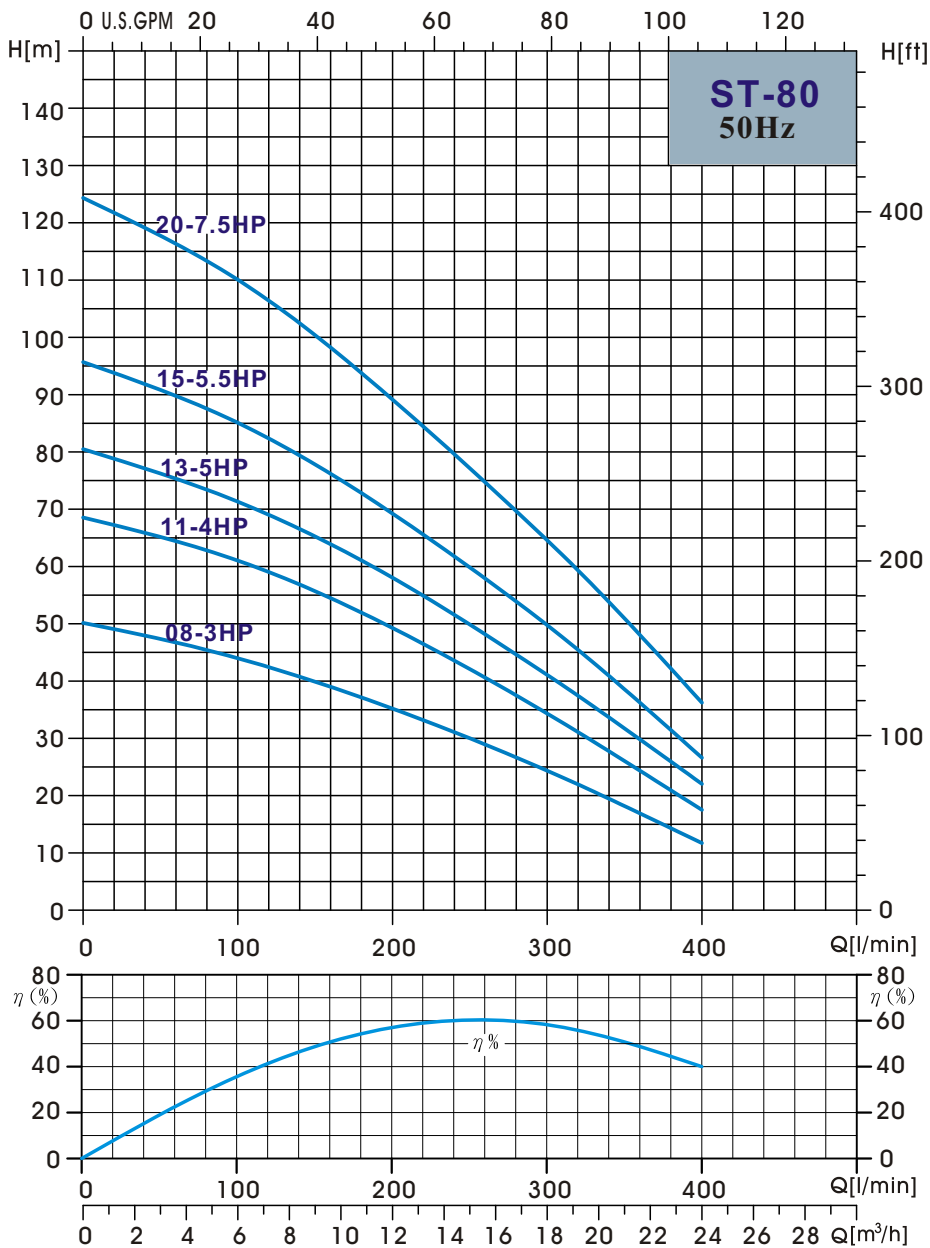
## Performance Curves



Selection Chart																						
PUMP TYPE	Stages	Motor		Q=DELIVERY																	PUMP	
		KW	HP	l/min	80	90	100	120	140	160	180	200	220	240	260	280	300	320	340	360	Length (mm)	Weight (kg)
				m³/h	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12	13	14.4	16	17	18	19	20	22		
H=TOTAL HEAD IN METERS																						
ST-6007	7	1.5	2.0	45			37	36	33	31	28	25	22	18	14						534	5.3
ST-6010	10	2.2	3.0	64			54	52	48	44	41	36	32	26	20						690	6.7
ST-6014	14	3.0	4.0	89			76	72	67	62	56	49	43	35	28						989	8.6
ST-6017	17	3.7	5.0	107			90	86	80	74	67	59	51	42	32						1092	10.1
ST-6019	19	4.0	5.5	120			102	97	91	89	76	68	58	48	37						1195	11.0
ST-6026	26	5.5	7.5	163			136	129	120	111	100	87	75	61	48						1559	14.3

# ST-80

## Performance Curves



Selection Chart																						
PUMP TYPE	Stages	Motor		Q=DELIVERY																	PUMP	
				l/min 0	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400		
		m³/h 0	6.0	7.2	8.4	9.6	10.8	12	13	14.4	16	17	18	19	20	22	23	24	27	Length (mm)	Weight (kg)	
H=TOTAL HEAD IN METERS																						
ST-8008	8	2.2	3.0	51			41	39	37	35	33	31	29	27	24	22	20	17	14	12	676	6.3
ST-8011	11	3.0	4.0	70			57	54	52	49	47	44	41	38	34	31	28	24	21	18	880	8.1
ST-8013	13	3.7	5.0	81			67	64	61	58	55	52	48	45	41	38	34	30	26	22	1013	9.3
ST-8015	15	4.0	5.5	97			79	76	73	69	66	63	58	54	50	46	41	36	32	27	1149	10.5
ST-8020	20	5.5	7.5	125			102	98	94	89	84	79	74	70	65	60	54	48	43	37	1489	13.5

The discharge and the intake/adapters are precision machined cast 304 stainless steel, with NEMA mounting specifications.

The discharge has a built-in check valve.

The pump body is covered by a 304 polished stainless steel shell.

The shafts are made from hex 304 stainless steel bar material.

Shafts for pumps with 19 and fewer stages are supplied with one shaft bearing. Shafts for pumps with more than 19 stages are supplied with two shaft bearings.

Impellers are floating type. (floating impeller design pumps require less starting torque, and are less affected by sand or other abrasive materials in water).

Impellers are made of Noryl®.

Diffusers are made of polycarbonate.

Built-in 304 stainless steel strainer.

Couplings are made from sintered 304 stainless steel material, with NEMA specifications.

The brand Noryl® is owned by GE in U.S.



**STAIRS**

**STAIRS INDUSTRIAL CO.,LTD.**

Company

No., 70, Hwacheng Road, Lane 113,  
Hsin Chuang City, Taipei Hsien, Taiwan, R. O. C.  
Tel: 886-2-29931466 • Fax: 886-2-22770972  
e-mail: stairs@stairs.com.tw

Factory

No., 3-8, Sanchial Tsun, Lutsao Hsiang,  
Chiai Hsien, Taiwan, R. O. C.  
Tel: 886-5-3750488 • Fax: 886-5-3752330  
e-mail: honchi.pump@msa.hinet.net

