



STAIRS

60Hz

ST SERIES PLASTIC PUMPS

ISO
9001

motralec

4 rue Lavoisier . ZA Lavoisier . 95223 HERBLAY CEDEX

Tel. : 01.39.97.65.10 / Fax : 01.39.97.68.48

Demande de prix / e-mail : service-commercial@motralec.com

www.motralec.com



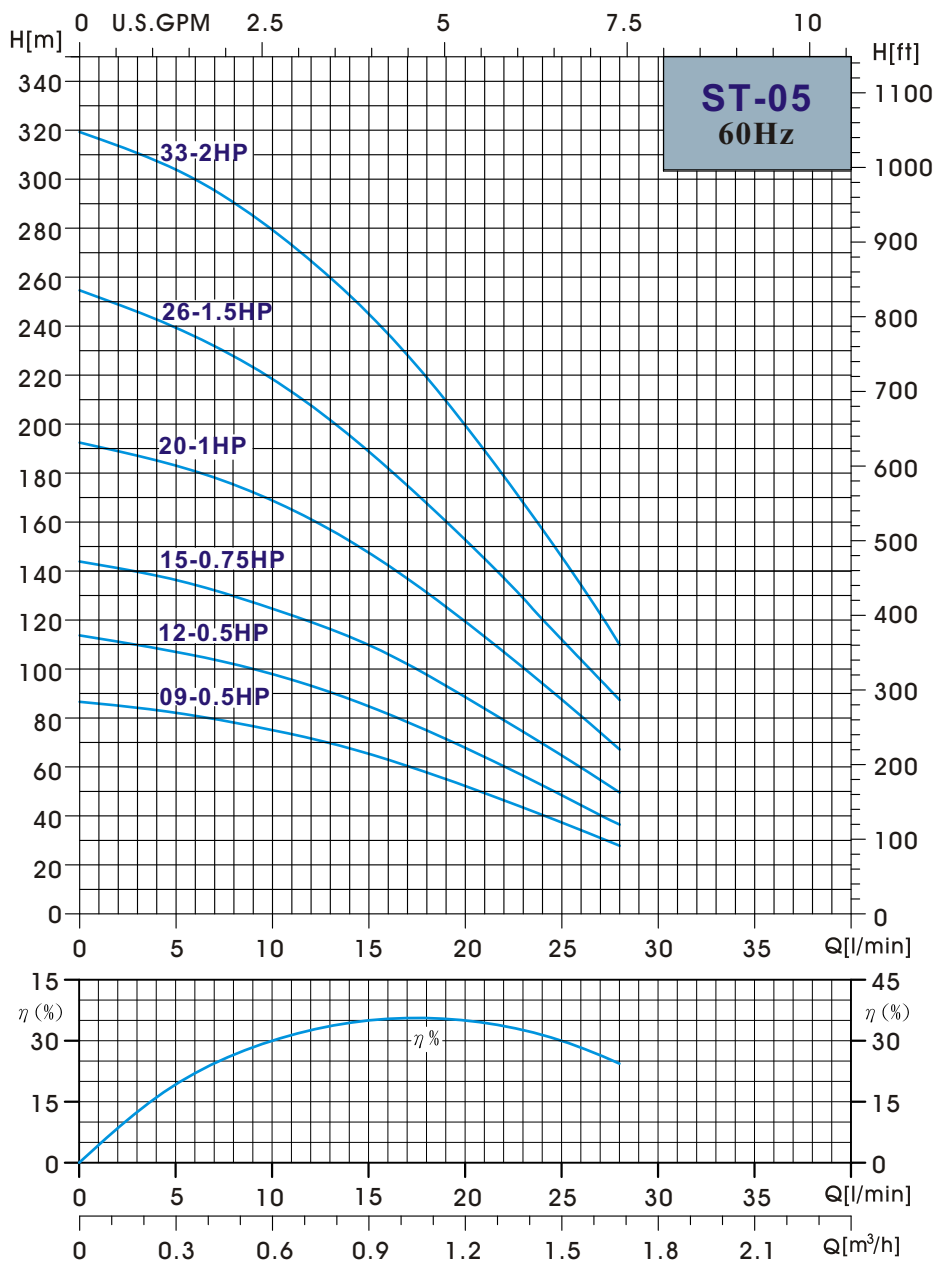
STAIRS PUMPS			
TYPE	ST800S	H.P.	2
Q	60 GPM	H	800 ft
WINDING	152 ft.	RPM	3450
Des. Code ISO	NCC: 05049811		

STAIRS PUMPS			
TYPE	ST350S	H.P.	2
Q	55 GPM	H	800 ft
WINDING	104 ft.	RPM	3450
Des. Code ISO	NCC: 05049810		

STAIRS PUMPS			
TYPE	ST400S	H.P.	1.5
Q	40 GPM	H	100 ft
WINDING	152 ft.	RPM	3450
Des. Code ISO	NCC: 05049803		

ST-05

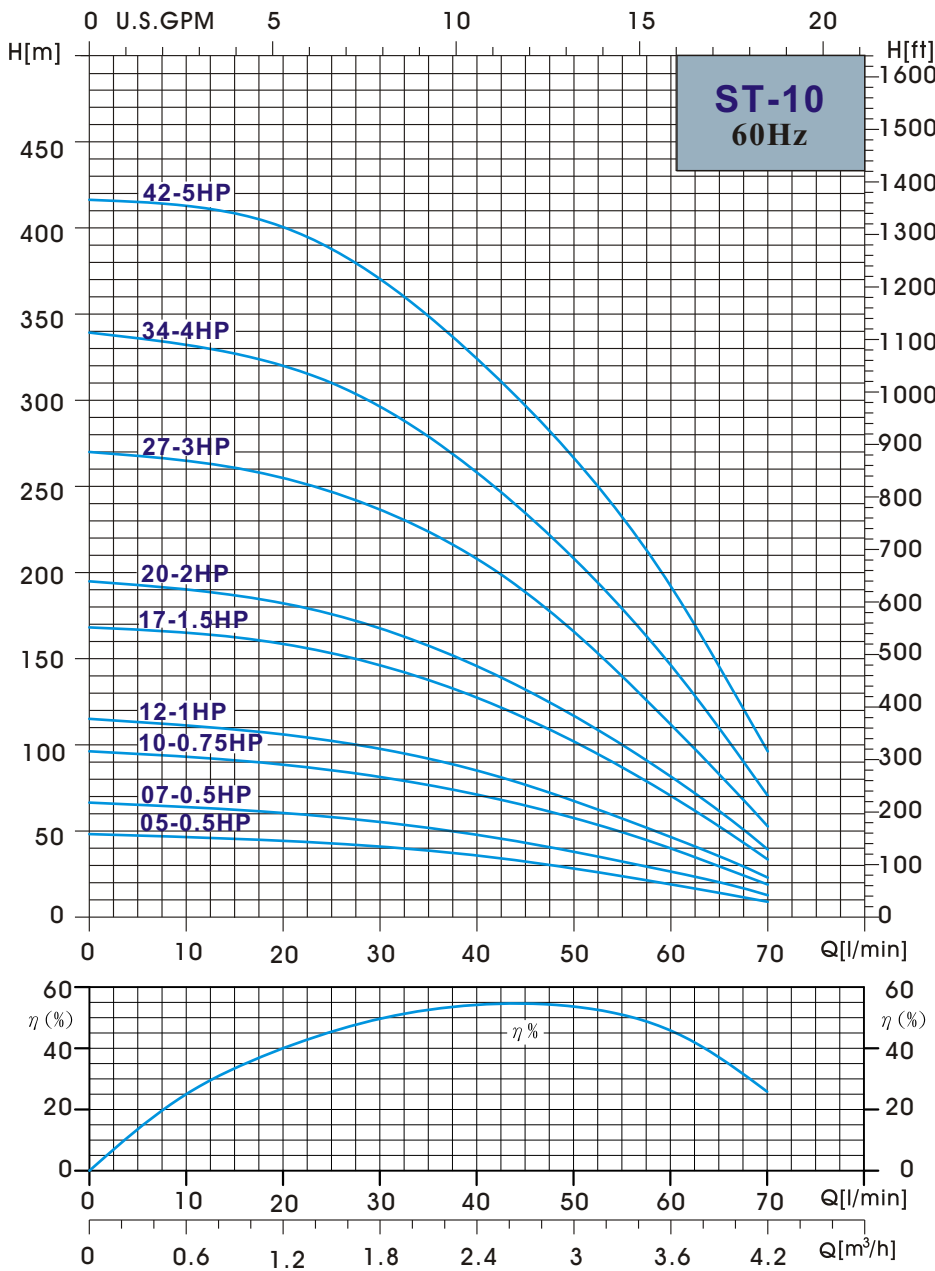
Performance Curves



Selection Chart																			
PUMP TYPE	Stages	Motor		Q=DELIVERY														PUMP	
				l/min 0	10	15	20	25	30	35	40	50	60	70	80	90	100	Length (mm)	Weight (kg)
		KW	HP	m³/h 0	0.6	0.9	1.2	1.5	1.8	2.1	2.4	3.0	3.6	4.2	4.8	5.4	6.0	H=TOTAL HEAD IN METERS	
ST-0509	9	0.37	0.5	87	75	65	52	38	21									306	3.1
ST-0512	12	0.37	0.5	114	98	85	68	49	28									359	3.6
ST-0515	15	0.55	0.75	144	124	110	89	65	39									411	4.1
ST-0520	20	0.75	1.0	193	169	148	120	88	53									499	4.9
ST-0526	26	1.10	1.5	255	219	179	152	112	68									642	5.8
ST-0533	33	1.5	2.0	320	280	245	200	145	82									757	7.3

ST-10

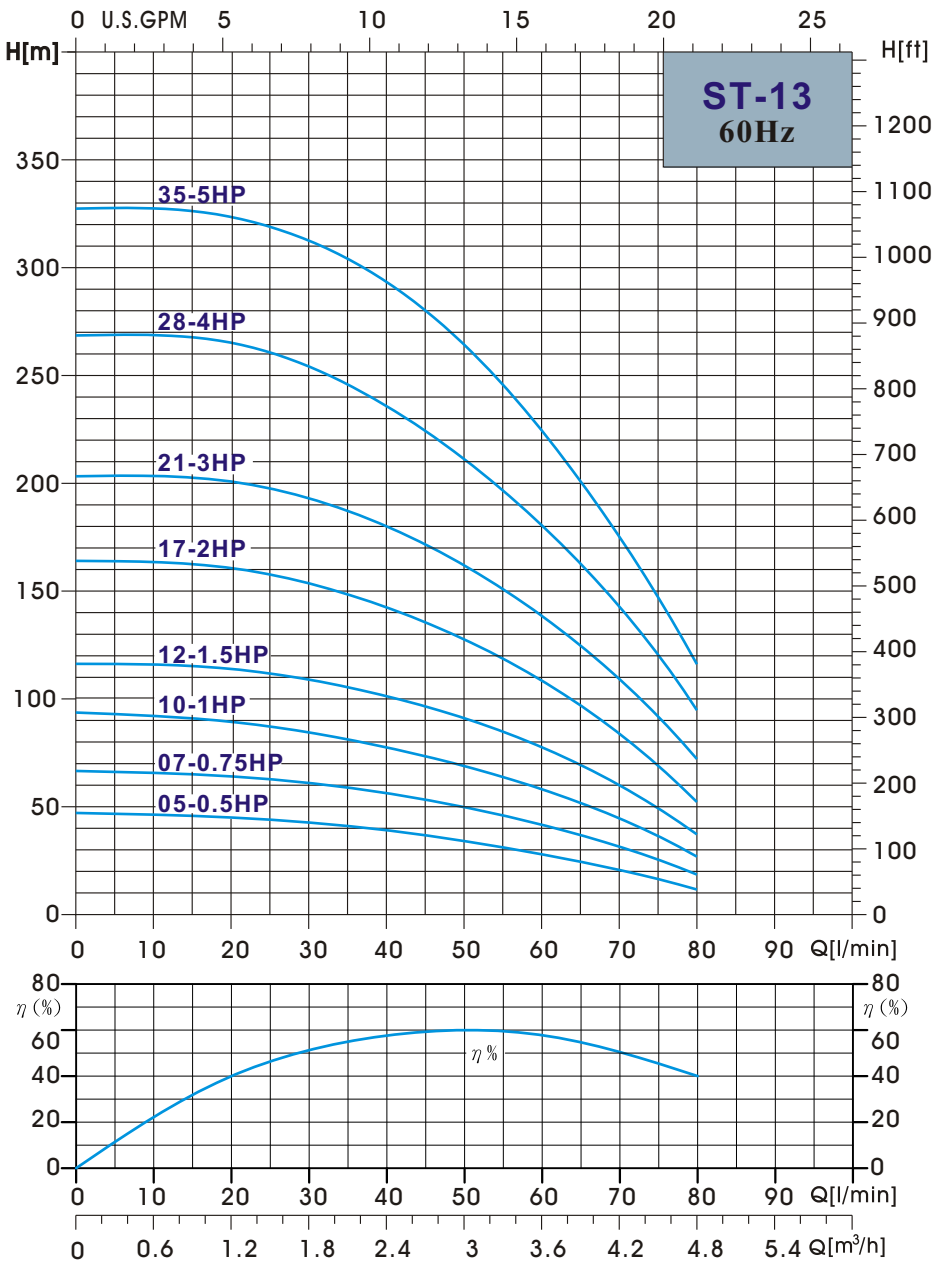
Performance Curves



Selection Chart																			
PUMP TYPE	Stages	Motor		Q=DELIVERY														PUMP	
				l/min 0	10	15	20	25	30	35	40	50	60	70	80	90	100	Length (mm)	Weight (kg)
		m³/h 0	0.6	0.9	1.2	1.5	1.8	2.1	2.4	3.0	3.6	4.2	4.8	5.4	6.0	H=TOTAL HEAD IN METERS			
ST-1005	5	0.37	0.5	48			44	42	40	38	36	29	19	9				236	2.5
ST-1007	7	0.37	0.5	67			60	58	55	52	49	39	27	13				271	2.8
ST-1010	10	0.55	0.75	96			89	85	81	77	71	58	40	19				324	3.3
ST-1012	12	0.75	1.0	115			106	102	98	92	85	68	47	23				359	3.6
ST-1017	17	1.10	1.5	168			159	152	147	138	128	102	70	35				447	4.4
ST-1020	20	1.5	2.0	195			181	177	168	158	146	118	82	40				499	4.9
ST-1027	27	2.2	3.0	270			255	247	237	223	209	167	111	53				660	6.0
ST-1034	34	3.0	4.0	339			320	310	296	280	259	209	146	70				758	7.5
ST-1042	42	3.7	5.0	416			400	389	370	350	323	267	190	99				916	8.8

ST-13

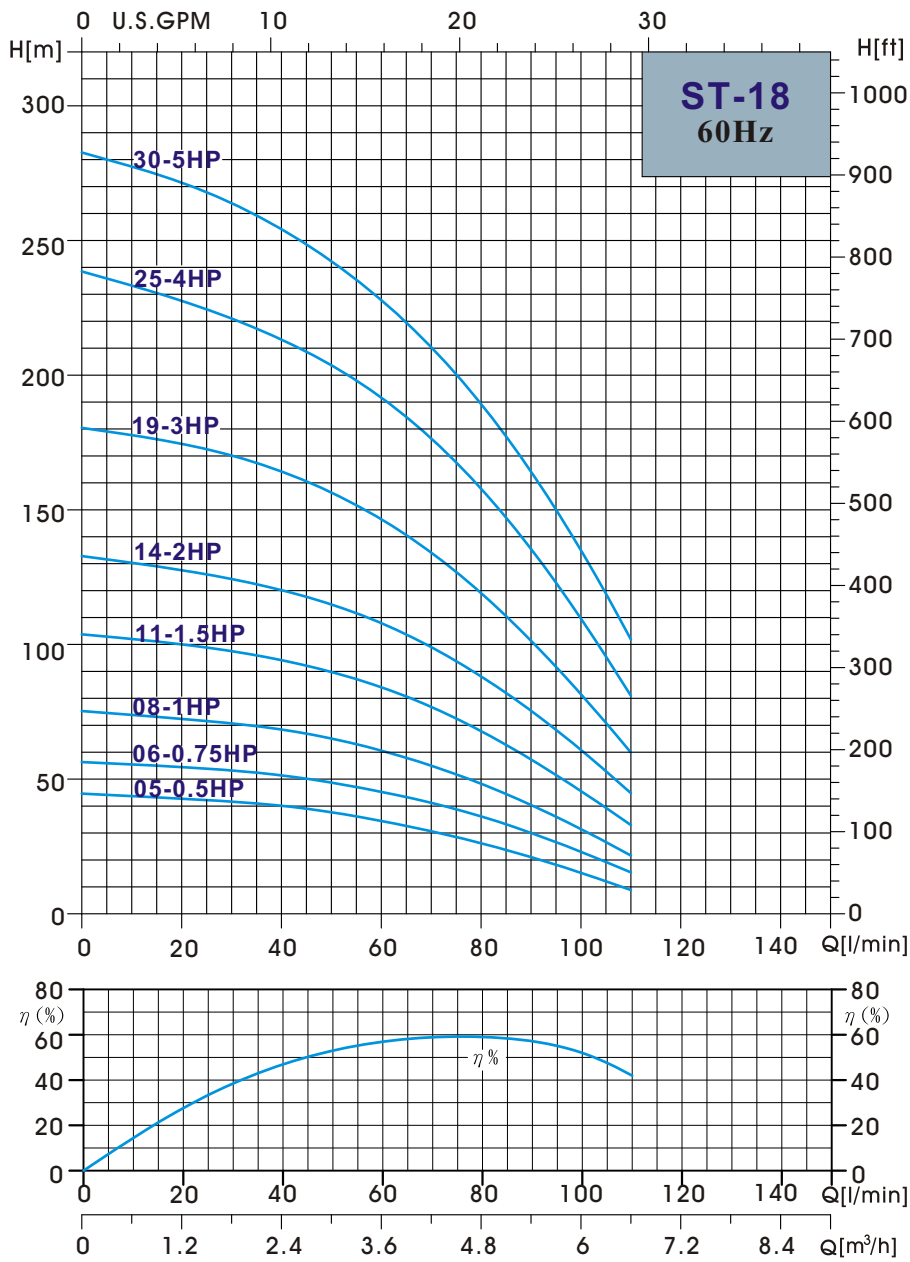
Performance Curves



Selection Chart																					
PUMP TYPE	Stages	Motor		Q=DELIVERY																PUMP	
				l/min	0	10	15	20	25	30	35	40	50	60	70	80	90	100			
		KW	HP	m ³ /h	0	0.6	0.9	1.2	1.5	1.8	2.1	2.4	3.0	3.6	4.2	4.8	5.4	6.0	Length (mm)	Weight (kg)	
H=TOTAL HEAD IN METERS																					
ST-1305	5	0.37	0.5	47					42	40	39	34	28	21	12			236	2.5		
ST-1307	7	0.55	0.75	67					61	59	57	50	41	31	19			271	2.8		
ST-1310	10	0.75	1.0	94					85	81	78	69	58	45	28			324	3.2		
ST-1312	12	1.10	1.5	116					109	106	102	91	78	60	38			359	3.5		
ST-1317	17	1.5	2.0	165					154	148	143	128	109	83	53			447	4.3		
ST-1321	21	2.2	3.0	204					193	187	180	162	139	110	72			519	5.0		
ST-1328	28	3.0	4.0	269					254	246	236	211	180	142	96			679	6.0		
ST-1335	35	3.7	5.0	327					312	304	292	264	223	175	117			803	7.6		

ST-18

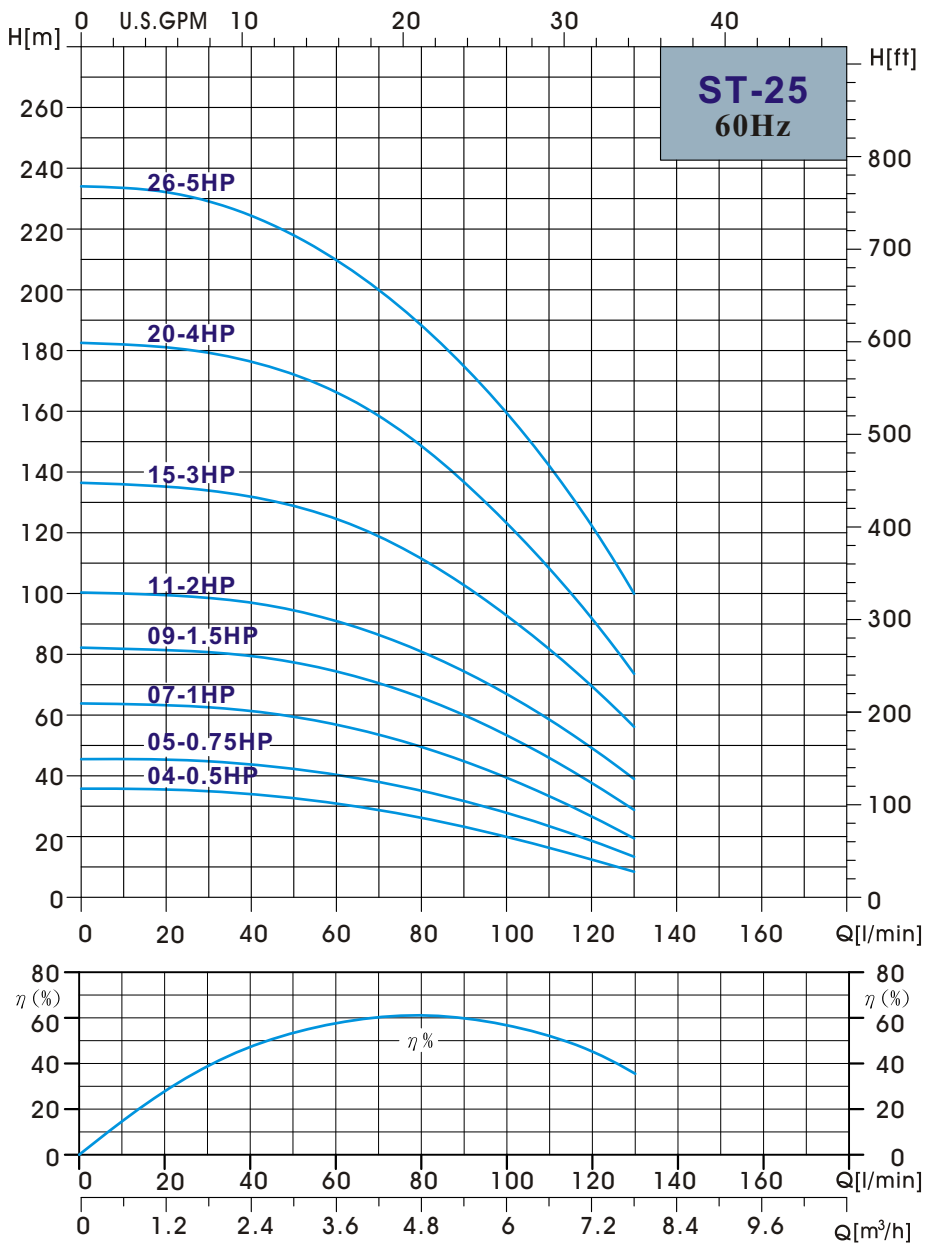
Performance Curves



Selection Chart																					
PUMP TYPE	Stages	Motor		Q = DELIVERY																PUMP	
		KW	HP	l/min 0	25	30	35	40	50	60	70	80	90	100	120	140	160	180	Length (mm)	Weight (kg)	
				m³/h 0	1.5	1.8	2.1	2.4	3.0	3.6	4.2	4.8	5.4	6.0	7.2	8.4	9.6	10.8			
H = TOTAL HEAD IN METERS																					
ST-1805	5	0.37	0.5	45			41	40	38	35	31	27	21	15	9				257	2.7	
ST-1806	6	0.55	0.75	56			53	52	49	45	41	37	30	23	16				279	2.8	
ST-1808	8	0.75	1.0	75			70	68	65	61	55	49	41	32	22				322	3.1	
ST-1811	11	1.10	1.5	104			96	94	90	84	77	68	58	46	33				387	3.6	
ST-1814	14	1.5	2.0	133			123	120	115	108	99	88	75	61	45				452	4.1	
ST-1819	19	2.2	3.0	181			167	165	156	146	134	119	102	81	60				560	4.9	
ST-1825	25	3.0	4.0	238			217	213	204	192	176	158	136	110	81				725	5.9	
ST-1830	30	3.7	5.0	283			260	254	242	228	210	189	164	135	102				827	7.1	

ST-25

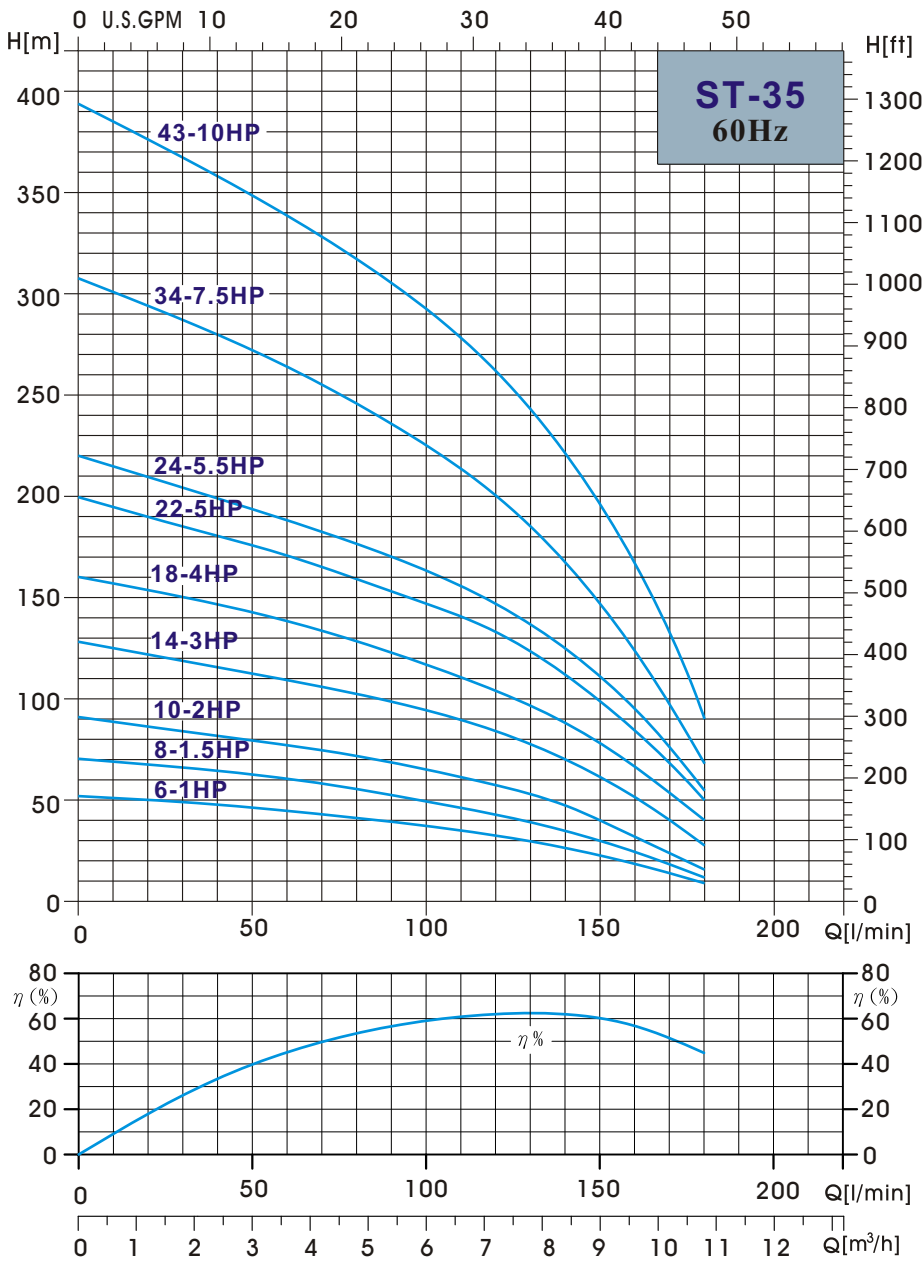
Performance Curves



Selection Chart																				
PUMP TYPE	Stages	Motor		Q=DELIVERY																
		KW	HP	l/min	30	35	40	50	60	70	80	90	100	120	140	160	180	200	PUMP	
				m³/h	1.8	2.1	2.4	3.0	3.6	4.2	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12	Length	Weight
H=TOTAL HEAD IN METERS																	(mm)	(kg)		
ST-2507	7	0.75	1.0	64				59	57	54	50	45	40	27					320	3.1
ST-2509	9	1.10	1.5	83				77	74	71	66	60	53	38					370	3.5
ST-2511	11	1.5	2.0	101				94	91	86	81	75	67	49					419	3.9
ST-2515	15	2.2	3.0	137				128	124	109	112	103	93	70					518	4.7
ST-2520	20	3	4.0	183				172	166	158	148	137	122	92					679	5.8
ST-2526	26	3.7	5.0	234				218	210	200	188	175	160	122					826	7.1

ST-35

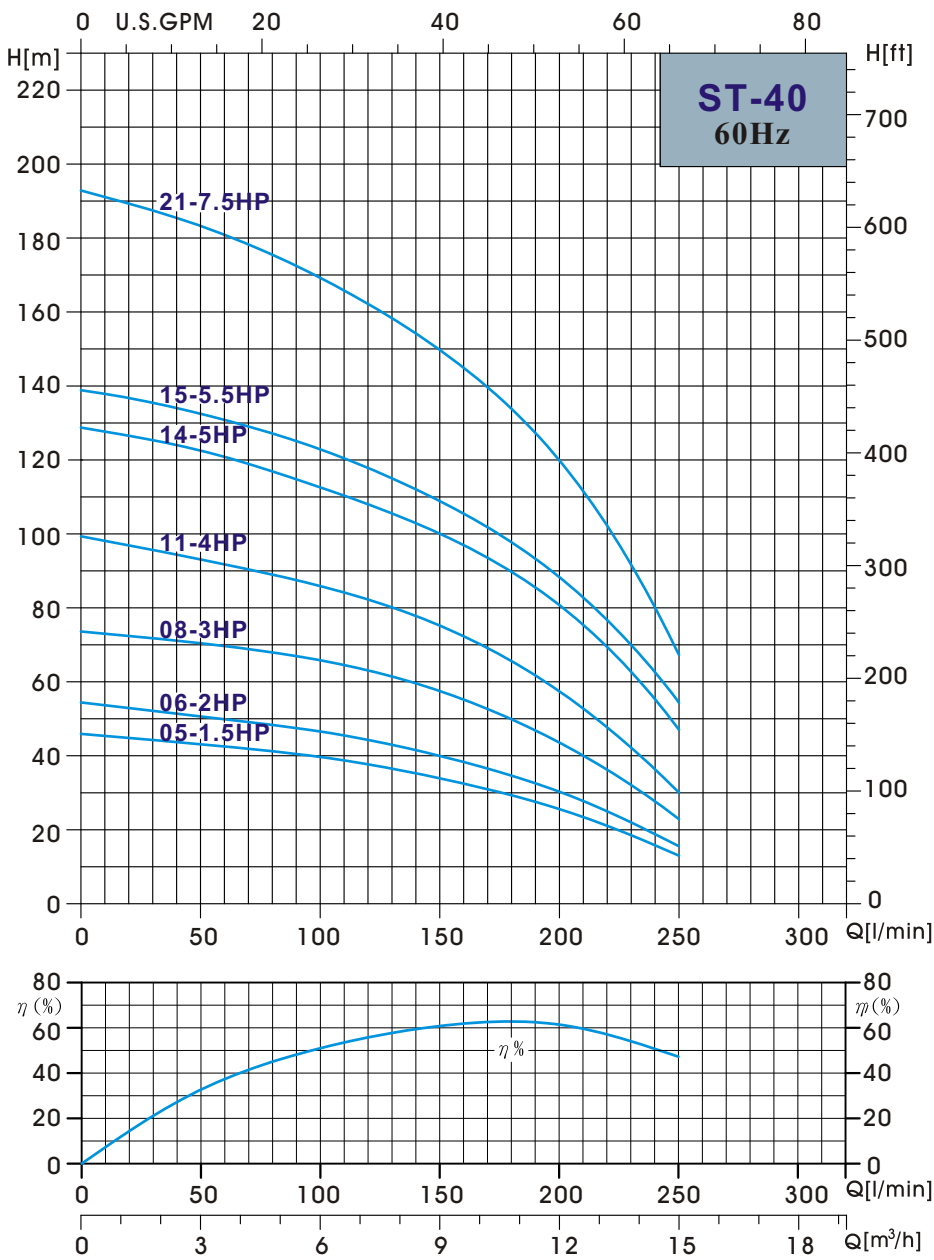
Performance Curves



Selection Chart																				
PUMP TYPE	Stages	Motor		Q = DELIVERY															PUMP	
				l/min	35	40	50	60	70	80	90	100	120	140	160	180	200	250		
		0	2.1	2.4	3.0	3.6	4.2	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12	15	Length (mm)	Weight (kg)		
H = TOTAL HEAD IN METERS																				
ST-3506	6	0.75	1.0	52				44	43	42	40	38	33	27	18	9			359	3.4
ST-3508	8	1.10	1.5	70				60	58	55	52	50	43	35	24	12			421	4.0
ST-3510	10	1.5	2.0	91				77	75	72	69	65	58	48	32	17			483	4.6
ST-3514	14	2.2	3.0	128				109	106	102	99	94	83	70	51	29			607	5.7
ST-3518	18	3.0	4.0	160				139	133	129	123	117	104	89	67	40			731	6.9
ST-3522	22	3.7	5.0	200				170	165	159	152	147	132	111	84	50			893	8.1
ST-3524	24	4.0	5.5	220				189	182	177	170	162	148	125	95	55			955	8.7
ST-3534	34	5.5	7.5	308				263	255	246	236	225	200	167	122	69			1257	11.6
ST-3543	43	7.5	10	394				339	328	317	305	292	261	220	167	90			1318	14.2

ST-40

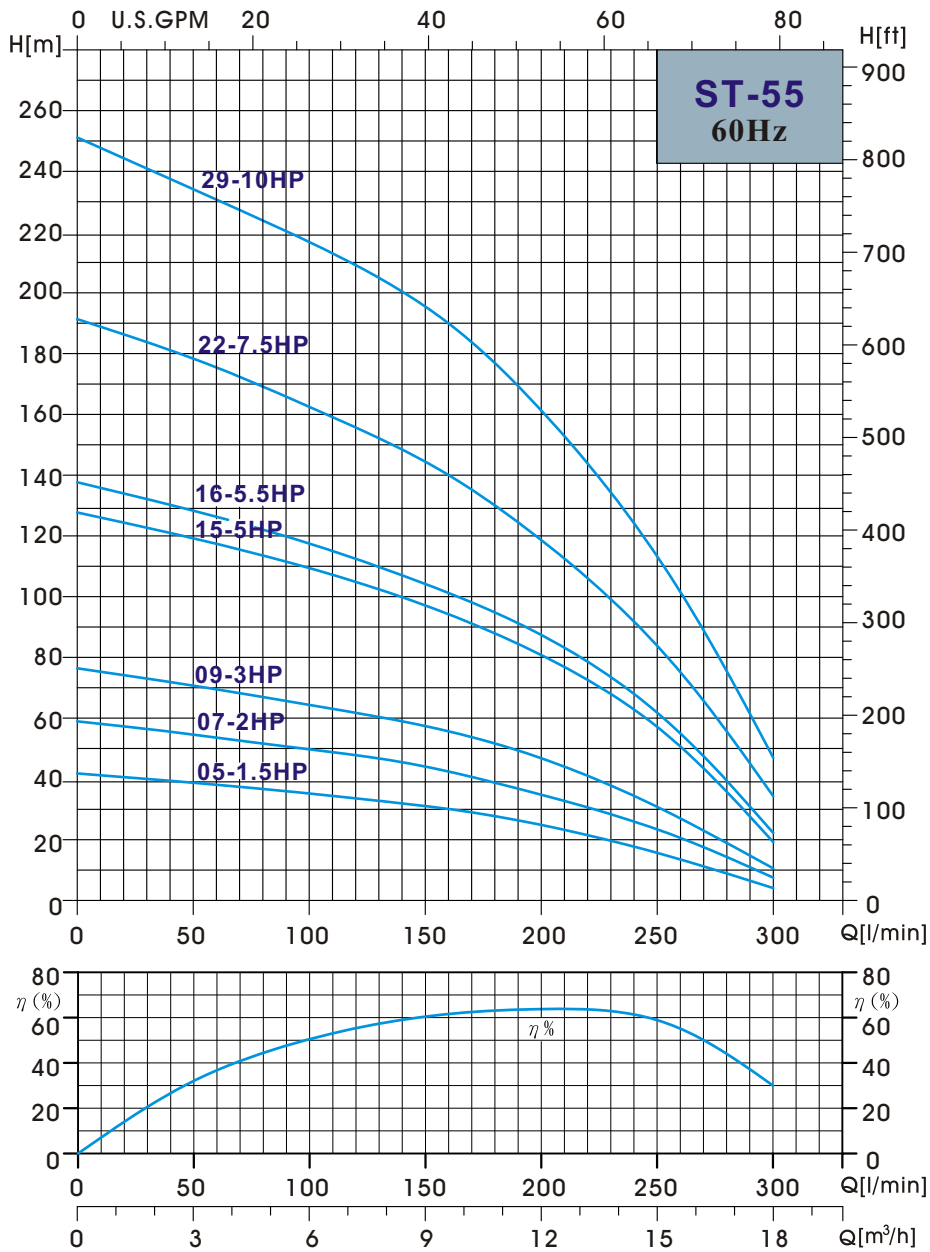
Performance Curves



Selection Chart																					
PUMP TYPE	Stages	Motor		Q=DELIVERY																PUMP	
		KW	HP	l/min 0	50	60	70	80	90	100	120	140	160	180	200	250	280	300	Length (mm)	Weight (kg)	
				m ³ /h 0	3.0	3.6	4.2	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12	15	16.8	18			
H=TOTAL HEAD IN METERS																					
ST-4005	5	1.10	1.5	46			42	41	40	39	37	35	33	29	25	14			325	3.1	
ST-4006	6	1.5	2.0	55			49	48	47	47	45	42	38	35	30	17			356	3.4	
ST-4008	8	2.2	3.0	74			69	68	67	66	63	60	56	50	43	24			418	4.0	
ST-4011	11	3.0	4.0	100			91	88	87	86	83	78	73	66	58	30			511	4.9	
ST-4014	14	3.7	5.0	129			118	116	115	113	108	103	97	90	81	48			604	5.7	
ST-4015	15	4.0	5.5	139			128	126	125	123	118	113	105	97	88	55			638	6.0	
ST-4021	21	5.5	7.5	194			178	175	173	169	162	154	145	134	120	68			859	7.8	

ST-55

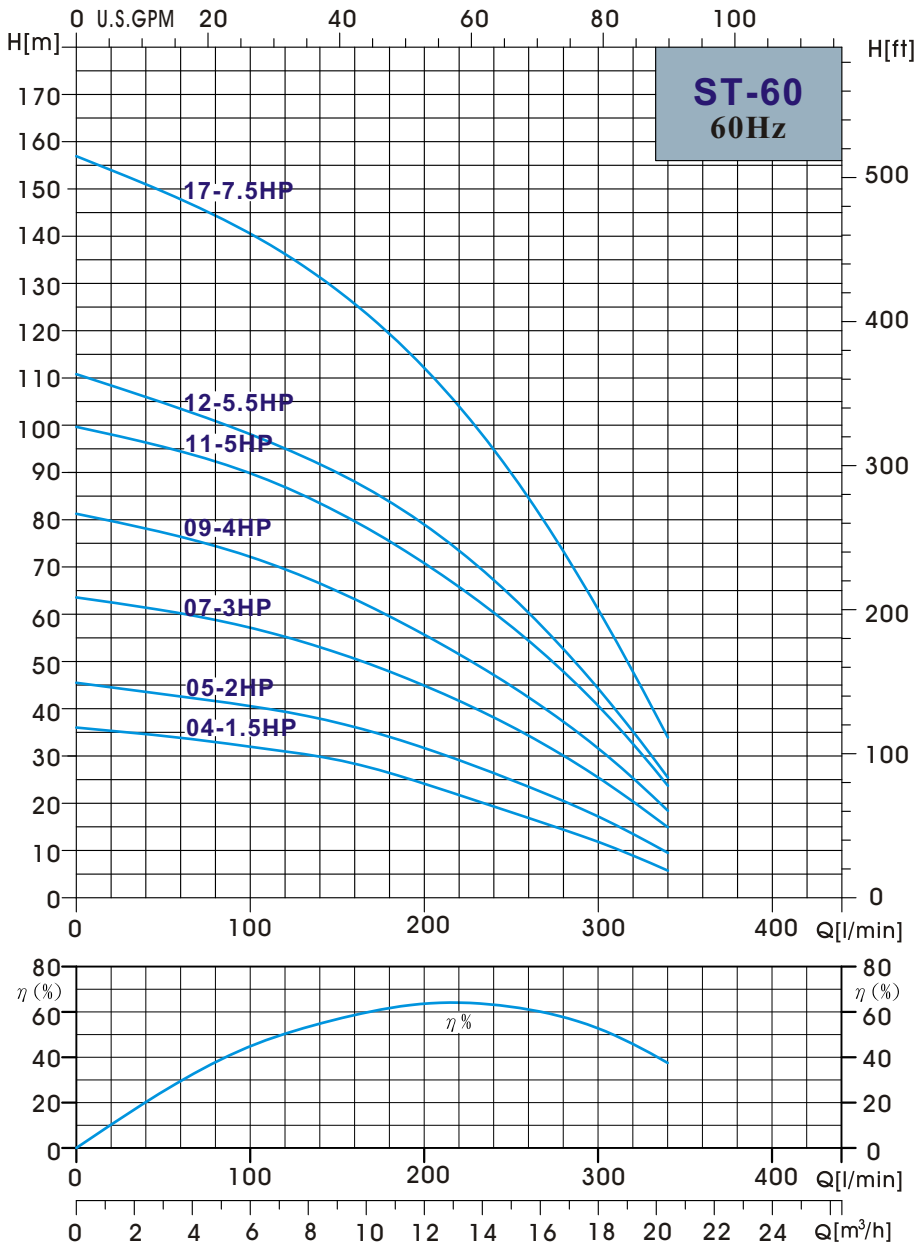
Performance Curves



Selection Chart																							
PUMP TYPE	Stages	Motor		Q=DELIVERY																		PUMP	
				l/min	0	80	90	100	120	140	160	180	200	220	240	260	280	300	340	380	420		
		KW	HP	m³/h	0	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12	13.2	14.4	15.6	16.8	18	20.4	22.8	25.2	Length (mm)	Weight (kg)
H=TOTAL HEAD IN METERS																					PUMP		
ST-5505	5	1.10	1.5	42	38	37	36	34	32	30	28	25	22	18	14	9	5				433	4.3	
ST-5507	7	1.5	2.0	59	52	51	50	48	46	43	40	36	31	26	21	15	8				537	5.3	
ST-5509	9	2.0	3.0	76	67	66	64	62	59	56	52	47	42	35	28	19	11				641	6.2	
ST-5515	15	3.7	5.0	128	113	112	109	105	100	94	88	80	72	63	51	37	20				953	9.0	
ST-5516	16	4.0	5.5	137	122	120	117	112	107	101	95	88	79	68	55	40	23				1005	9.5	
ST-5522	22	5.5	7.5	191	169	166	162	156	149	140	131	118	106	91	75	55	35				1345	12.3	
ST-5529	29	7.5	10	251	225	221	218	209	200	190	177	161	144	125	101	75	48				1708	15.6	

ST-60

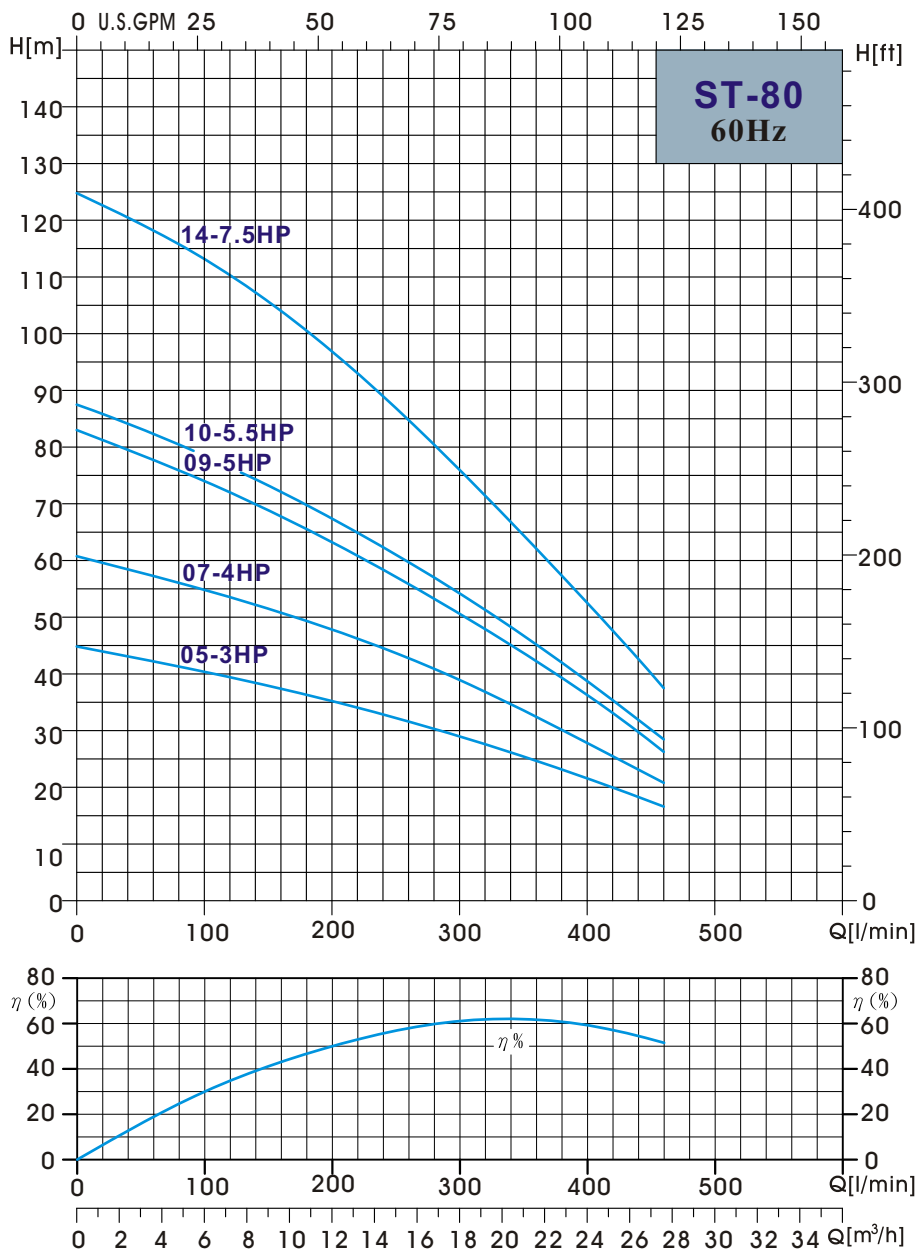
Performance Curves



Selection Chart																					
PUMP TYPE	Stages	Motor		Q=DELIVERY																PUMP	
				l/min 0	80	90	100	120	140	160	180	200	220	240	260	280	300	340	380	420	Length
		m³/h 0	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12	13.2	14.4	15.6	16.8	18	20.4	22.8	25.2	(mm)	(kg)	
		H=TOTAL HEAD IN METERS																			
ST-6004	4	1.10	1.5	36			32	31	30	28	26	24	22	19	17	14	12	6		378	3.9
ST-6005	5	1.5	2.0	46			41	39	37	36	34	32	29	26	23	20	17	9		430	4.4
ST-6007	7	2.0	3.0	64			57	55	53	51	48	45	42	38	34	30	25	15		534	5.3
ST-6009	9	3.0	4.0	82			72	69	67	64	60	56	52	47	42	37	32	18		638	6.3
ST-6011	11	3.7	5.0	100			90	87	83	80	75	71	67	60	54	48	41	24		742	7.2
ST-6012	12	4.0	5.5	110			98	95	92	88	84	78	73	67	60	55	44	26		797	7.7
ST-6017	17	5.5	7.5	157			140	136	131	126	119	112	104	95	85	73	61	35		1092	10.1

ST-80

Performance Curves



Selection Chart																																					
PUMP TYPE	Stages	Motor		Q = DELIVERY																PUMP																	
				l/min 0	120	140	160	180	200	220	240	260	280	300	340	380	420	460	500			540															
		KW	HP	m³/h 0	7.2	8.4	9.6	10.8	12	13.2	14.4	15.6	16.8	18	20.4	22.8	25.2	27.6	30	32.4	Length (mm)	Weight (kg)															
H = TOTAL HEAD IN METERS																		45	61	82	88	104	101	97	93	89	85	80	76	67	62	48	38				
ST-8005	5	2.2	3.0	45			37	36	35	34	33	32	31	29	27	25	20	17		472	4.4																
ST-8007	7	3.0	4.0	61			51	49	47	46	44	42	41	39	35	33	26	21		608	5.6																
ST-8009	9	3.7	5.0	82			68	66	63	61	58	56	53	51	45	39	33	26		743	6.9																
ST-8010	10	4.0	5.5	88			72	70	67	65	64	60	57	54	48	42	36	28		814	7.5																
ST-8014	14	5.5	7.5	126			104	101	97	93	89	85	80	76	67	62	48	38		1081	9.9																

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.



motralec

4 rue Lavoisier . ZA Lavoisier . 95223 HERBLAY CEDEX

Tel. : 01.39.97.65.10 / Fax. : 01.39.97.68.48

Demande de prix / e-mail : service-commercial@motralec.com

www.motralec.com