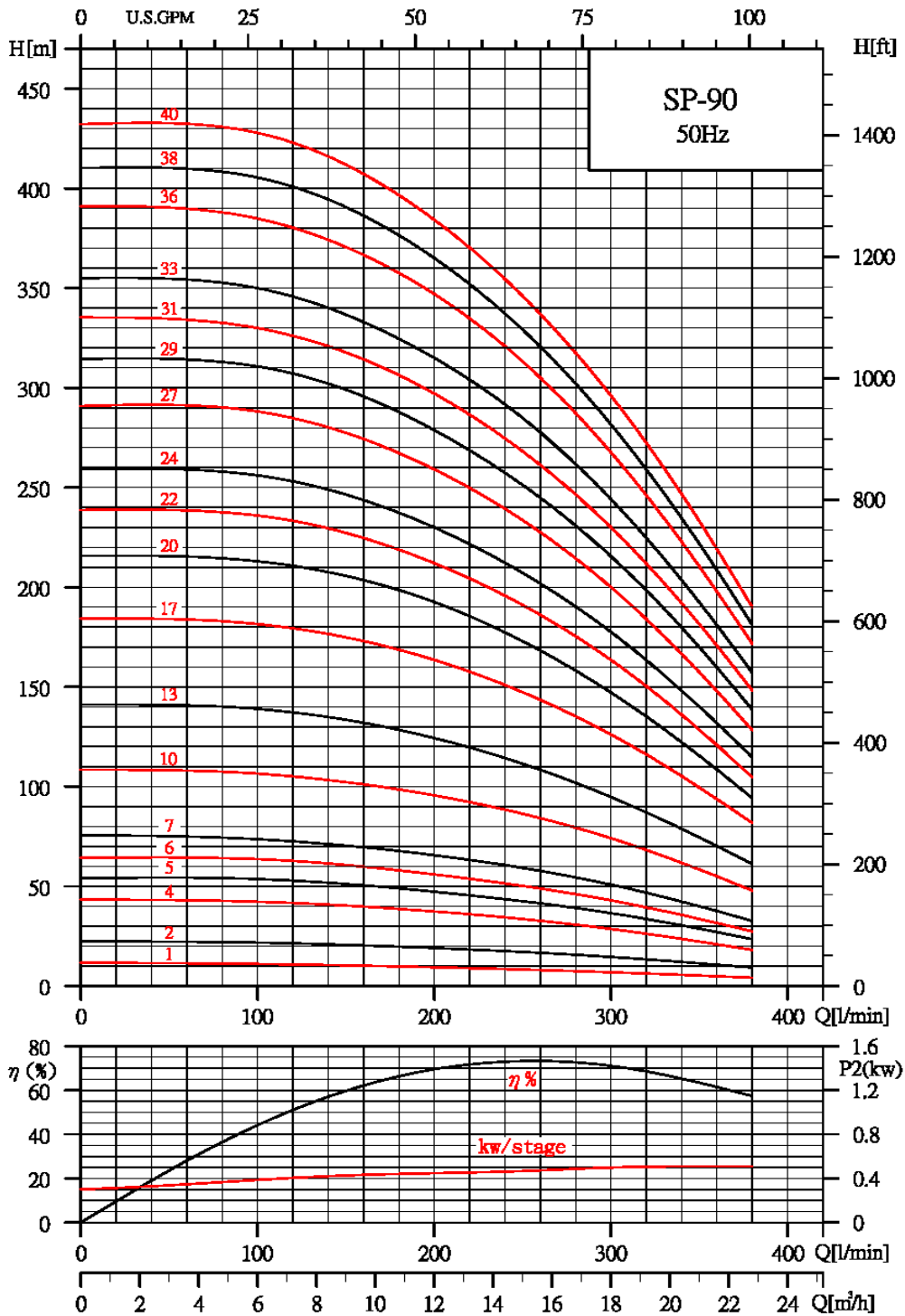




Performance Curves

SP-90



1	14/03/2006
No.	Date



SELECTION CHART

50 HZ

Pump Type	Motor		Max.current		Q capacity 2900 rpm								
	P2		Amp		m ³ /h 1/min	3	6	9	12	15	18	21	23
	KW	HP	220V	380V		50	100	150	200	250	300	350	383
SP 90-1	0.55	0.75	2.6	1.5	HEAD IN METERS	11.5	11	10.5	9.5	8	7	6	4
SP 90-2	1.1	1.5	5.2	3.0		22	21.5	20.5	19	17.5	15	12	9
SP 90-4	2.2	3	9.5	5.5		42.5	42	40.5	38	33	28.5	23	18
SP 90-5	3	4	13.3	7.7		53	52	51	47.5	42.5	37	29	22
SP 90-6	3.7	5	15.4	8.9		64	63	60	56	50	43	34	27
SP 90-7	4	5.5	17	10.4		75	74	71	66	59	51	40	32
SP 90-10	5.5	7.5	22.2	12.8		108	107	102	95	86	74	59	49
SP 90-13	7.5	10	28.5	16.5		141	139	133	124	112	95	75	60
SP 90-17	9.3	12.5	36	20.9		184	182	175	163	147	126	100	80
SP 90-20	11	15	41.8	24.2		216	213	206	192	175	147	116	95
SP 90-22	13	17.5	50	29		239	237	228	212	191	163	130	105
SP 90-24	13	17.5	50	29		260	257	247	230	208	178	140	115
SP 90-27	15	20	55	32		292	288	277	260	234	200	158	128
SP 90-29	18.5	25	69	40		315	311	300	279	251	215	170	138
SP 90-31	18.5	25	69	40		335	330	318	298	269	230	181	148
SP 90-33	18.5	25	69	40		355	350	337	315	285	243	191	157
SP 90-36	22	30	81	47		391	385	371	348	313	268	210	170
SP 90-38	22	30	81	47		410	405	390	365	330	282	222	180
SP 90-40	22	30	81	47		433	428	412	384	346	296	235	190

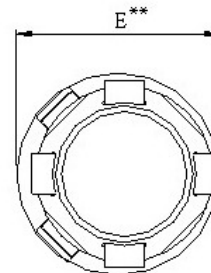
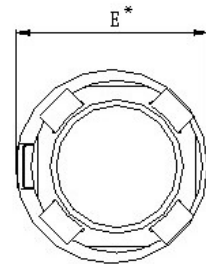
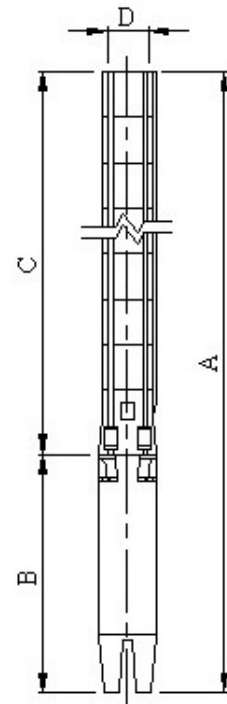


DIMENSIONS AND WEIGHTS

Pump Type	Dimensions(mm)						Net Weight(Kg)	
	A	B	C	D	E*	E**	Pump	Motor
SP 90-1	613	270	343	RP 2 1/2"	131		5	9.5
SP 90-2	701	298	403		131		6.4	11
SP 90-4	932	408	524		131		9.3	16
SP 90-5	1034	449	585		131		10.8	19
SP 90-6	1208	563	645		131		12.2	25
SP 90-7	1269	563	706		131		13.7	25
SP 90-10	1501	614	887		131		18	48
SP 90-13	1715	646	1069		142	142	22.4	52
SP 90-17	2022	711	1311		142	142	28.2	58
SP 90-20	2203	711	1492		142	142	32.5	58
SP 90-22	2389	776	1613		142	142	35.4	64
SP 90-24	2510	776	1734		142	142	38.3	64
SP 90-27	2692	776	1916		142	142	42.7	64
SP 90-29	2878	841	2037		142	142	45.6	70
SP 90-31	2999	841	2158		142	142	48.5	70
SP 90-33	3120	841	2279		142	142	51.4	70
SP 90-36	3366	906	2460		142	142	55.7	76
SP 90-38	3487	906	2581		142	142	58.6	76
SP 90-40	3608	906	2702		142	142	61.5	76

E*: Maximum diameter of pump with one motor cable

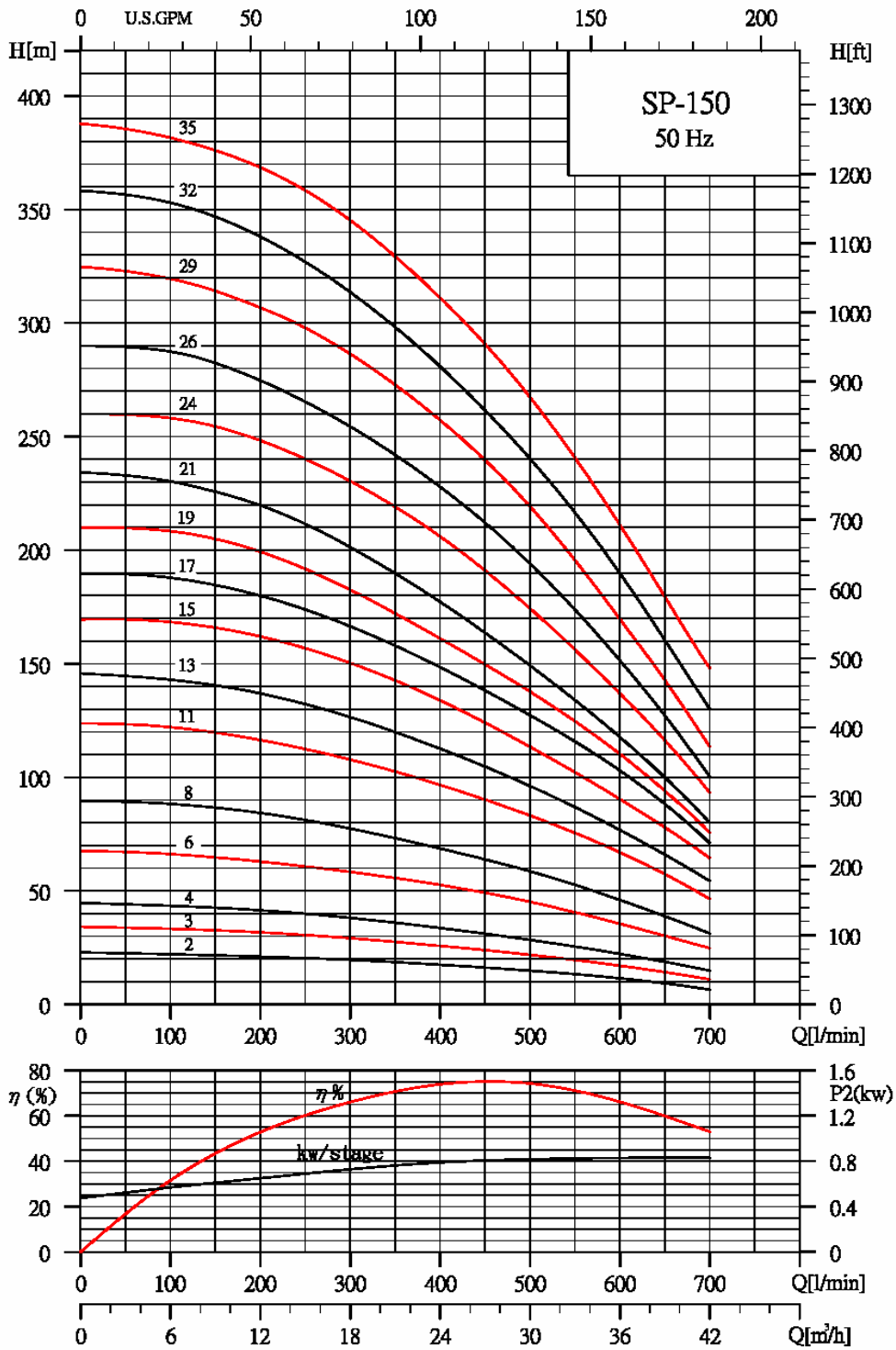
E:** Maximum diameter of pump with two motor cable





Performance Curves

SP-150



1	04/10/2004
No.	Date



SELECTION CHART

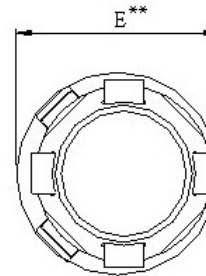
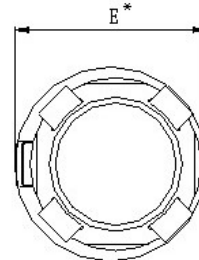
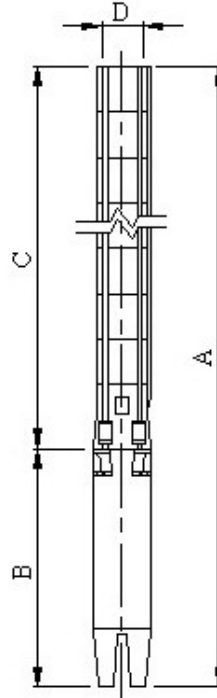
50 HZ

Pump Type	Motor		Max.current		Q capacity 2900 rpm													
	P2		Amp		m ³ /h	6	9	12	15	18	21	24	27	30	33	36	39	42
	KW	HP	220V	380V	1/min	100	150	200	250	300	350	400	450	500	550	600	650	700
SP150-2	2.2	3	9.5	5.5	HEAD IN METERS	23	22	21	20	19	18	17	16	15	13	11	9	6
SP150-3	3	4	13.3	7.7		33	32	31	30	29	28	26	24	22	20	17	14	11
SP150-4	3.7	5	15.4	8.9		43	42	41	40	38	36	34	31	28	26	23	19	15
SP150-6	5.5	7.5	22.2	12.8		67	64	62	60	58	56	52	49	45	40	36	30	25
SP150-8	7.5	10	28.5	16.5		88	87	84	81	78	73	68	64	58	53	46	38	31
SP150-11	11	15	41.8	24.2		122	120	117	112	108	102	97	90	83	76	67	57	47
SP150-13	11	15	41.8	24.2		143	140	137	132	127	120	113	105	97	87	77	66	55
SP150-15	15	20	55	32		168	166	162	157	150	142	134	124	113	102	90	77	65
SP150-17	15	20	55	32		188	185	180	173	167	158	148	138	127	116	103	88	71
SP150-19	18.5	25	69	40		208	205	199	192	182	172	161	150	137	125	110	94	77
SP150-21	18.5	25	69	40		230	226	220	212	202	190	177	164	149	134	117	100	80
SP150-24	22	30	81	47		258	254	248	240	230	219	207	191	175	156	137	117	93
SP150-26	22	30	81	47		287	282	275	266	255	242	227	212	194	173	152	127	100
SP150-29	26	35	96	56		319	314	307	298	287	273	257	240	220	196	170	143	113
SP150-32	30	40	111	64		353	347	338	327	313	298	281	261	240	217	190	160	130
SP150-35	30	40	111	64		382	377	368	358	346	329	311	290	267	240	211	180	148



DIMENSIONS AND WEIGHTS

Pump Type	Dimensions(mm)						Net Weight(kg)	
	A	B	C	D	E*	E**	Pump	Motor
SP150-2	870	408	462	NPT / RP 3"	131		8.4	16
SP150-3	1007	449	558		131		10.1	19
SP150-4	1217	563	654		131		11.8	25
SP150-6	1460	614	846		131		15.2	48
SP150-8	1684	646	1038		142	142	18.6	52
SP150-11	2037	711	1326		142	142	23.6	58
SP150-13	2229	711	1518		142	142	27	58
SP150-15	2486	776	1710		142	142	30.4	64
SP150-17	2678	776	1902		142	142	33.8	64
SP150-19	2935	841	2094		142	142	37.2	70
SP150-21	3127	841	2286		142	142	40.6	70
SP150-24	3480	906	2574		142	142	45.6	76
SP150-26	3672	906	2766		142	142	49	76
SP150-29	4090	1036	3054		142	142	54.1	92
SP150-32	4378	1036	3342		142	142	59.2	92
SP150-35	4666	1036	3630	142	142	64.3	92	



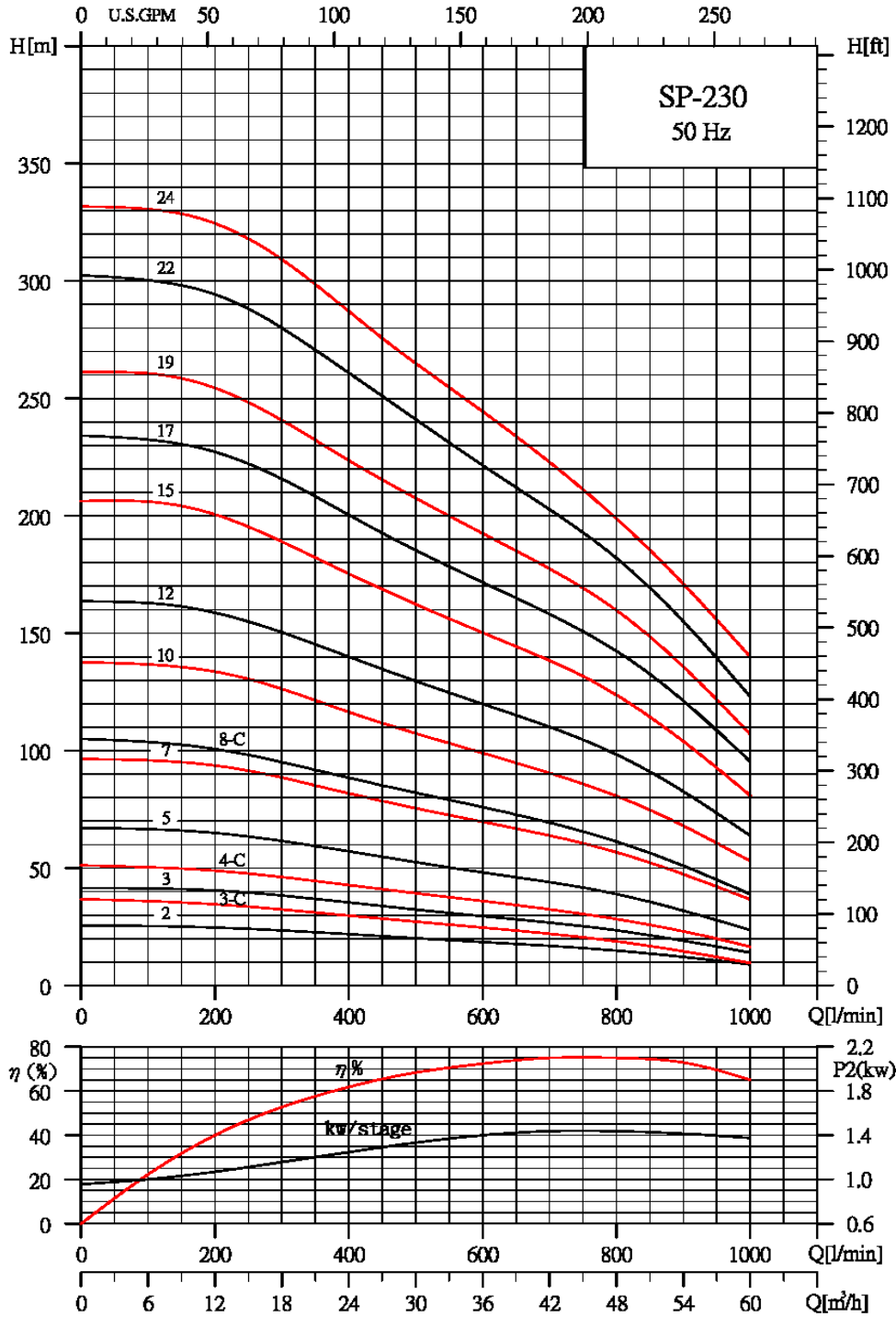
E*: Maximum diameter of pump with one motor cable

E:** Maximum diameter of pump with two motor cable



Performance Curves

SP-230



2	12/01/2005
No.	Date

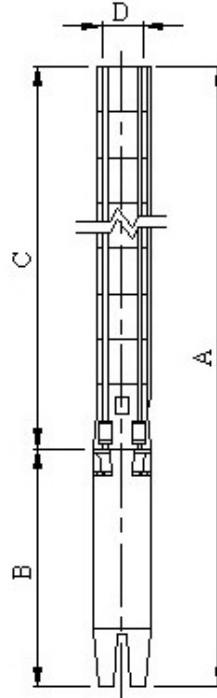


Pump Type	Motor		Max.current		Q capacity 2900 rpm												
	P2		Amp		m ³ /h	12	15	18	21	24	27	30	36	42	48	54	60
	KW	HP	220V	380V	1/min	200	250	300	350	400	450	500	600	700	800	900	1000
SP230-2	3	4	13.3	7.7	HEAD IN METERS	24	23.5	23	22.5	22	21	20	18	17	15	12	9
SP230-3C	3.7	5	15.4	8.9		35	34	32	31	29	28	27	24	22	19	15	10
SP230-3	5.5	7.5	22.2	12.8		40	39	38	37	35	34	33	29	27	23	18	14
SP230-4C	5.5	7.5	22.2	12.8		49	47	46	45	43	41	39	36	32	28	23	17
SP230-5	7.5	10	28.5	16.5		65	63	61	59	57	55	53	48	44	39	32	24
SP230-7	11	15	41.8	24.2		94	92	88	85	82	79	76	70	64	57	47	37
SP230-8C	11	15	41.8	24.2		100	98	95	92	88	85	82	76	69	61	51	39
SP230-10	15	20	55	32		133	130	127	122	117	112	107	98	90	80	67	53
SP230-12	18.5	25	69	40		158	155	150	145	140	135	130	120	110	98	83	64
SP230-15	22	30	81	47		200	195	189	183	177	169	163	150	138	124	105	81
SP230-17	26	35	96	56		227	222	215	208	200	193	186	172	158	143	121	96
SP230-19	30	40	111	64		254	248	241	233	224	216	208	193	178	160	136	107
SP230-22	40	50	138	80		294	288	280	270	260	251	241	222	203	183	155	123
SP230-24	40	50	138	80		325	317	309	298	287	276	265	244	223	199	171	140



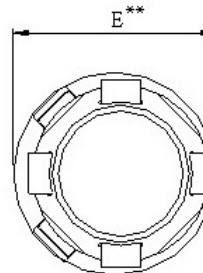
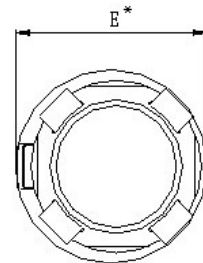
DIMENSIONS AND WEIGHTS

Pump Type	Dimensions(mm)						Net Weight(kg)	
	A	B	C	D	E*	E**	Pump	Motor
SP230-2	945	449	496	NPT / RP 3" OR 4"	146		9.2	19
SP230-3-C	1172	563	609		146		11.5	25
SP230-3	1223	614	609		146		11.5	48
SP230-4-C	1336	614	722		146		13.8	48
SP230-5	1481	646	835		149	152	16	52
SP230-7	1772	711	1061		149	152	20.6	58
SP230-8-C	1885	711	1174		149	152	22.9	58
SP230-10	2176	776	1400		149	152	27.4	64
SP230-12	2467	841	1626		149	152	32	70
SP230-15	2871	906	1965		149	152	38.8	76
SP230-17	3227	1036	2191		149	152	43.4	92
SP230-19	3453	1036	2417		149	152	47.9	92
SP230-22	4161	1405	2756		149	152	54.8	136
SP230-24	4387	1405	2982		149	152	59.3	136



E*: Maximum diameter of pump with one motor cable

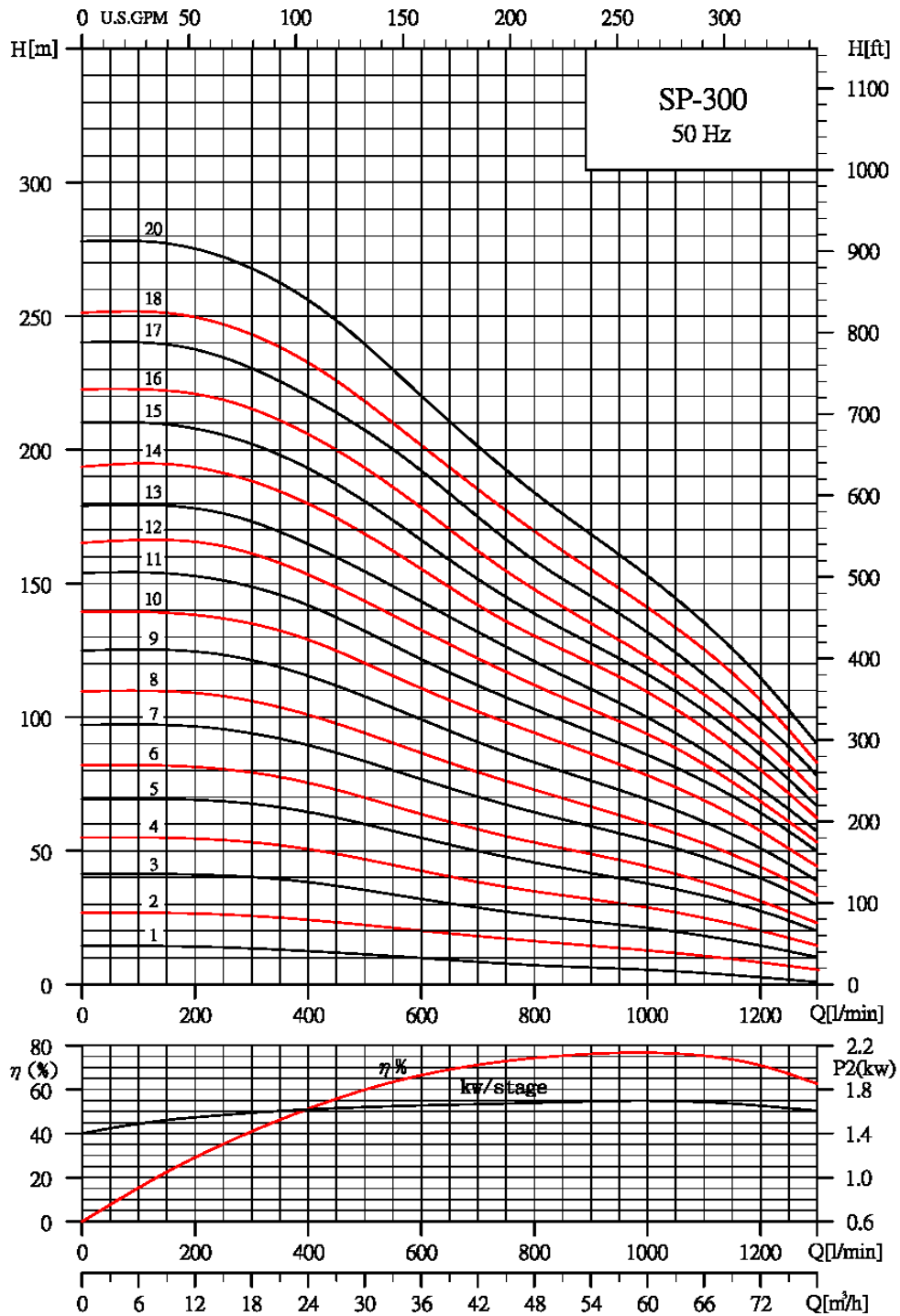
E:** Maximum diameter of pump with two motor cable





Performance Curves

SP-300



1	06/10/2004
No.	Date



SELECTION CHART

50 HZ

Pump Type	Motor P2		Max.current Amp		Q capacity 2900 rpm													
	KW	HP	220V	380V	m ³ /h	18	123	24	27	30	36	42	48	54	60	66	72	78
					1/min	300	123	400	450	500	600	700	800	900	1000	1100	1200	1300
SP300-1	2.2	3	9.5	5.5	HEAD IN METERS	13	12.5	12	11.5	11	10	8	7	6	5	4	2	1
SP300-2	3.7	5	15.4	8.9		26	25	24	23	22	20	18	16	14	13	11	8	5
SP300-3	5.5	7.5	22.2	12.8		40	39	38	37	36	32	28	26	24	22	18	14	10
SP300-4	7.5	10	28.5	16.5		53	52	51	48	47	43	38	35	32	28	25	20	14
SP300-5	9.3	12.5	36	20.9		67	66	64	62	60	55	50	46	42	38	33	27	19
SP300-6	11	15	41.8	24.2		79	78	76	73	70	64	58	53	48	44	38	32	23
SP300-7	13	17.5	50	29		94	92	89	86	84	77	70	64	59	54	47	40	29
SP300-8	15	20	55	32		106	104	101	97	94	87	80	73	67	60	53	44	33
SP300-9	18.5	25	69	40		122	118	116	112	108	99	91	83	76	69	61	51	38
SP300-10	18.5	25	69	40		135	132	128	125	120	111	102	95	87	78	68	57	45
SP300-11	22	30	81	47		148	146	142	137	132	122	112	103	95	86	76	64	49
SP300-12	22	30	81	47		162	157	153	148	143	133	122	112	103	94	83	68	53
SP300-13	26	35	96	56		173	169	165	160	155	143	132	121	110	100	87	73	57
SP300-14	26	35	96	56		188	184	180	175	168	156	142	130	120	109	96	80	63
SP300-15	26	35	96	56		203	197	193	187	180	166	152	138	127	116	103	86	67
SP300-16	30	40	111	64		216	211	206	200	193	178	162	148	135	123	108	92	72
SP300-17	40	50	138	80		230	226	220	214	207	192	175	158	145	132	116	97	78
SP300-18	40	50	138	80		243	238	233	226	218	202	185	170	155	141	126	107	83
SP300-20	40	50	138	80		267	263	256	248	239	220	201	184	168	153	136	115	90



DIMENSIONS AND WEIGHTS

Pump Type	Dimensions(mm)						Net Weight(kg)	
	A	B	C	D	E*	E**	Pump	Motor
SP300-1	832	449	383	NPT / RP 3" OR 4"	146		6.9	19
SP300-2	1059	563	496		146		9.2	25
SP300-3	1223	614	609		146		11.5	48
SP300-4	1368	646	722		149	152	13.7	52
SP300-5	1546	711	835		149	152	16	58
SP300-6	1659	711	948		149	152	18.3	58
SP300-7	1837	776	1061		149	152	20.6	64
SP300-8	1950	776	1174		149	152	22.9	64
SP300-9	2128	841	1287		149	152	25.1	70
SP300-10	2241	841	1400		149	152	27.4	70
SP300-11	2419	906	1513		149	152	29.7	76
SP300-12	2532	906	1626		149	152	32	76
SP300-13	2775	1036	1739		149	152	34.3	92
SP300-14	2888	1036	1852		149	152	36.5	92
SP300-15	3001	1036	1965		149	152	38.8	92
SP300-16	3114	1036	2078		149	152	41.1	92
SP300-17	3596	1405	2191		149	152	43.4	136
SP300-18	3709	1405	2304		149	152	45.7	136
SP300-20	3935	1405	2530		149	152	50.2	136

