

**MBH<sup>®</sup>**  
**PUMPS**

*Since 1969, MBH Pumps owned by Kamania family, manufactures and develops centrifugal pumps for submersible and surface installations. Over the years the Company has diversified its activity from the production of pumps for agricultural applications to Domestic, Industrial, Municipal waste water, Slurry, Water Intake and various other applications.*

*MBH Pumps is the right partner of every Company around the world because it is able to respond quickly and efficiently to the rapid market trends. The wide range of centrifugal pumps, the well-established experience and the continuous production quality improvement, has earned MBH pumps a well reputed name in the Competitive Market.*

*All pumps are manufactured according to international standards and technical specifications of the customer to successfully satisfy many application areas. Technologically innovative products that provide maximum performance with minimum energy consumption, able to provide the highest safety level, maintenance-free and ease of use conditions.*

# *Municipal and Industrial solutions*

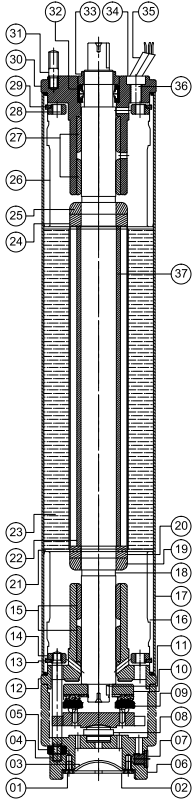


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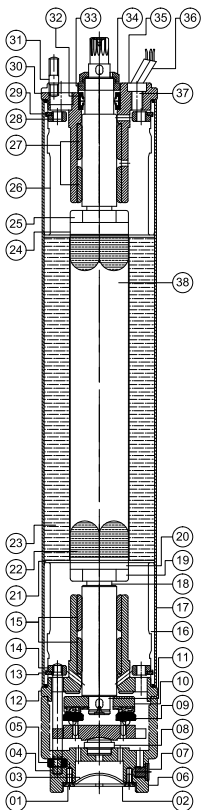
### Cross Section - 2 HP to 5 HP Motor (Standard)



SR.	DESCRIPTION	MATERIAL
1	M5 SCREW FOR BASE COVER	S.S.
2	BASE PLATE	M.S.
3	RUBBER CUP	NITRILE RUBBER
4	LOWER FLANGE STUD	S.S.
5	HEX NUT	S.S.
6	MOTOR BASE	C.I IS- 210 FG 200
7	DRAIN PLUG	BRASS
8	ROCKER SUPPORT	S.S.
9	T.B. SET	C.I. S.S.
10	REVOLVING PLATE	C.I - CARBON
11	REVOLVING PLATE KEY	S.S.
12	LOWER HOUSING	C.I IS- 210 FG 200
13	STATOR CIRCLIP LOWER SIDE	SPRING STEEL
14	LOWER FLANGE	M.S.
15	BUSH LOWER HOUSING	L.T.B - 4
16	LOWER COLLAR	M.S
17	STATOR TUBE	S.S.
18	ROTOR SHAFT	S.S.
19	BALANCE RING LOWER SIDE	C.I IS-210FG200

SR.	DESCRIPTION	MATERIAL
20	COPPER RING LOWER SIDE	COPPER
21	END LAMINATION	M.S.
22	ROTOR STAMPING	CRNO
23	STATOR STAMPING	CRNO
24	COPPER RING UPPER SIDE	COPPER
25	BALANCE RING UPPER SIDE	C.I IS-210FG200
26	UPPER COLLAR	M.S.
27	BUSH UPPER HOUSING	L.T.B - 4
28	UPPER FLANGE	M.S
29	STATOR CIRCLIP UPPER SIDE	SPRING STEEL
30	UPPER HOUSING	C.I IS-210FG200
31	UPPER STUD	S.S.
32	OIL SEAL	NITRILE RUBBER
33	SEAL CAP	S.S
34	GROMMET PLUG	BRASS
35	CABLE	STANDARD
36	ALLEN BOLT UPPER HOUSING	S.S.
37	ROTOR COMPLETE	COPPER

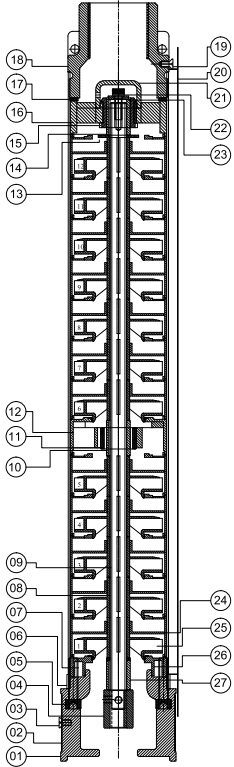
### Cross Section - 2 HP to 5 HP Motor (Export)



SR.	DESCRIPTION	MATERIAL
1	M5 SCREW FOR BASE COVER	S.S.
2	BASE PLATE	M.S.
3	RUBBER CUP	NITRILE RUBBER
4	LOWER FLANGE STUD	S.S.
5	HEX NUT	S.S.
6	MOTOR BASE	C.I IS- 210 FG 200
7	DRAIN PLUG	BRASS
8	ROCKER SUPPORT	S.S.
9	T.B. SET	C.I. S.S.
10	REVOLVING PLATE	C.I - CARBON
11	REVOLVING PLATE KEY	S.S.
12	LOWER HOUSING	C.I IS- 210 FG 200
13	STATOR CIRCLIP LOWER SIDE	SPRING STEEL
14	LOWER FLANGE	M.S.
15	BUSH LOWER HOUSING	L.T.B - 4
16	LOWER COLLAR	M.S.
17	STATOR TUBE	S.S.
18	ROTOR SHAFT	S.S.
19	BALANCE RING LOWER SIDE	C.I IS- 210 FG 200

SR.	DESCRIPTION	MATERIAL
20	COPPER RING LOWER SIDE	COPPER
21	END LAMINATION	M.S.
22	ROTOR STAMPING	CRNO
23	STATOR STAMPING	CRNO
24	COPPER RING UPPER SIDE	COPPER
25	BALANCE RING UPPER SIDE	C.I IS- 210 FG 200
26	UPPER COLLAR	M.S.
27	BUSH UPPER HOUSING	L.T.B - 4
28	UPPER FLANGE	M.S.
29	STATOR CIRCLIP UPPER SIDE	SPRING STEEL
30	UPPER HOUSING	C.I IS- 210 FG 200
31	UPPER STUD	S.S.
32	OIL SEAL	NITRILE RUBBER
33	SEAL CAP	S.S.
34	SAND GUARD	BRASS
35	GROMMET PLUG	BRASS
36	CABLE	STANDARD
37	ALLEN BOLT UPPER HOUSING	S.S.
38	ROTOR COMPLETE	COPPER

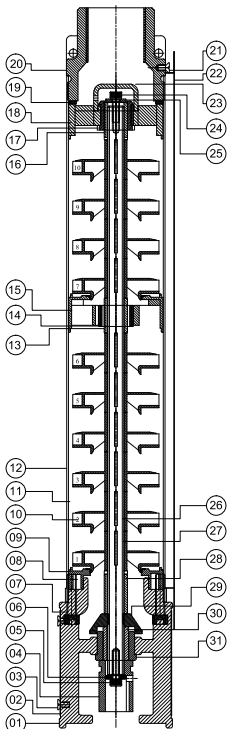
**Cross Section - Small Pump R-41 to R-49**



SR.	DESCRIPTION	MATERIAL
1	ADAPTOR	C.I IS-210 FG 200
2	ADAPTOR STRAINER	S.S
3	M5 SCREW FOR STRAINER	S.S
4	PUMP COUPLING	S.S. - 410
5	M8 ALLEN BOLT	S.S
6	PUMP OUTER TUBE	S.S
7	M8 SQUARE NUT	S.S.
8	PUMP SHAFT	S.S. - 410
9	PUMP SHAFT KEY	S.S.
10	MIDDLE SLEEVE	S.S.
11	MIDDLE METAL COVER RUBBER BUSH	RUBBER - S.S.
12	MIDDLE D.O.	P.P.
13	WASHER FOR TOP SLEEVE	S.S.
14	TOP SLEEVE	S.S.

SR.	DESCRIPTION	MATERIAL
15	D.O.L. RUBBER BUSH	NITRILE RUBBER
16	D.O.L.	P.P.
17	"O" RING D.O.L. & N.R.V. BODY	NITRILE RUBBER
18	N.R.V BODY	C.I IS- 210 FG 200
19	M5 SCREW FOR CABLE CLIP	S.S.
20	CABLE GUARD	S.S.
21	ADJUSTING CAP FOR D.O.L.	P.P.
22	M6 ALLEN BOLT	S.S.
23	WASHER	S.S.
24	STAGE CASING	P.P.
25	IMPELLER	P.P.
26	ADAPTOR PLATE	P.P.
27	ADAPTOR SLEEVE	S.S.

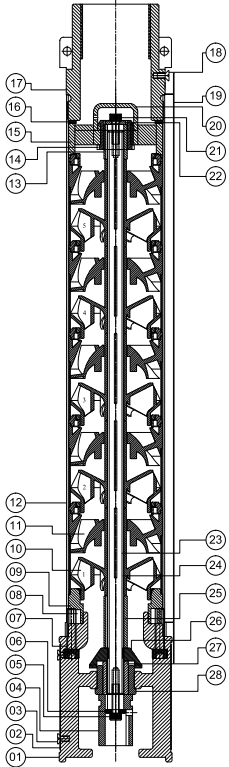
**Cross Section - Big Pump R-41 to R-49**



SR.	DESCRIPTION	MATERIAL
1	ADAPTOR	C.I IS-210 FG 200
2	ADAPTOR STRAINER	S.S.
3	M5 SCREW FOR STRAINER	S.S
4	PUMP COUPLING	S.S. - 410
5	M6 ALLEN BOLT	S.S.
6	WASHER FOR COUPLING	S.S.
7	M8 ALLEN BOLT	S.S.
8	M8 SQUARE NUT	S.S.
9	ADAPTOR PLATE	P.P.
10	IMPELLER	P.P.
11	STAGE CASING	P.P.
12	PUMP OUTER TUBE	S.S.
13	MIDDLE SLEEVE	S.S.
14	MIDDLE METAL COVER RUBBER BUSH	RUBBER - S.S.
15	MIDDLE D.O.	P.P.
16	TOP SLEEVE	S.S.

SR.	DESCRIPTION	MATERIAL
17	D.O.L. RUBBER BUSH	NITRILE RUBBER
18	D.O.L.	P.P.
19	"O" RING D.O.L. & N.R.V. BODY	NITRILE RUBBER
20	N.R.V. BODY	C.I IS-210 FG 200
21	M5 SCREW FOR CABLE CLIP	S.S.
22	CABLE GUARD	S.S.
23	ADJUSTING CAP FOR D.O.L.	P.P.
24	M6 ALLEN BOLT	S.S.
25	WASHER	S.S.
26	PUMP SHAFT	S.S. - 410
27	PUMP SHAFT KEY	S.S.
28	DISTANCE SLEEVE	S.S.
29	SAND GUARD	NYLON
30	ADAPTOR SLEEVE	S.S.
31	ADAPTOR C.T. BUSH	LTB-4

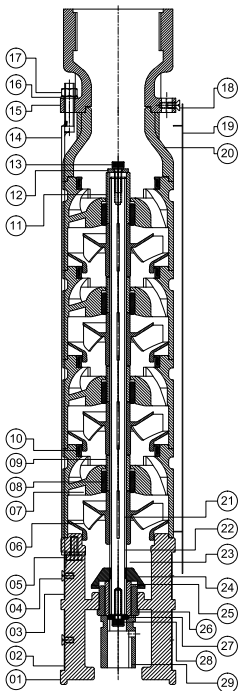
**Cross Section - Big Pump M-412 to M-418**



SR.	DESCRIPTION	MATERIAL
1	ADAPTOR	C.I IS-210 FG 200
2	ADAPTOR STRAINER	S.S
3	M5 SCREW FOR STRAINER	S.S
4	PUMP COUPLING	S.S. - 410
5	M6 ALLEN BOLT	S.S
6	WASHER FOR COUPLING	S.S
7	M8 ALLEN BOLT	S.S
8	M8 SQUARE NUT	S.S.
9	ADAPTOR PLATE	P.P.
10	IMPELLER	P.P.
11	STAGE CASING	P.P. + S.S.
12	PUMP OUTER TUBE	S.S
13	TOP SLEEVE	S.S.
14	D.O.L. RUBBER BUSH	NITRILE RUBBER

SR.	DESCRIPTION	MATERIAL
15	D.O.L.	P.P.
16	"O" RING D.O.L. & N.R.V. BODY	NITRILE RUBBER
17	N.R.V BODY	C.I IS-210 FG 200
18	M5 SCREW FOR CABLE CLIP	S.S.
19	CABLE GUARD	S.S.
20	ADJUSTING CAP FOR D.O.L.	P.P.
21	M6 ALLEN BOLT	S.S.
22	WASHER FOR SLEEVE	S.S.
23	PUMP SHAFT	S.S. - 410
24	PUMP SHAFT KEY	S.S.
25	DISTANCE SLEEVE	S.S.
26	SAND GUARD	NYLON
27	ADAPTOR SLEEVE	S.S.
28	ADAPTOR C.T. BUSH	LTB-4

**Cross Section - Big Pump M-419**



SR.	DESCRIPTION	MATERIAL
1	ADAPTOR	C.I IS-210 FG 200
2	ADAPTOR STRAINER 1	S.S.
3	ADAPTOR STRAINER 2	S.S.
4	M5 SCREW FOR STRAINER	S.S.
5	ADAPTOR HEX BOLT FOR T- BOLT	S.S.
6	IMPELLER	P.P.
7	STAGE CASING	C.I IS-210 FG 200
8	STAGE CASING BUSH	LTB-4
9	STAGE CASING SLEEVE	S.S
10	NECK RING	RUBBER -NITRILE
11	TOP SLEEVE	S.S.
12	WASHER FOR SLEEVE	S.S.
13	M6 ALLEN BOLT	S.S.
14	PUMP STUD	S.S.
15	NRV BODY	C.I IS-210 FG 200

SR.	DESCRIPTION	MATERIAL
16	PUMP STUD WASHER	S.S.
17	HEX NUT FOR PUMP STUD	S.S.
18	M5 SCREW FOR CABLE CLIP	S.S.
19	CABLE GUARD	S.S.
20	D.O.L	C.I IS-210 FG 200
21	PUMP SHAFT	S.S. - 410
22	PUMP SHAFT KEY	S.S.
23	DISTANCE SLEEVE	S.S.
24	SAND GUARD	NYLON
25	ADAPTOR SLEEVE	S.S
26	ADAPTOR C.T. BUSH	LTB-4
27	WASHER FOR COUPLING	S.S
28	M6 ALLEN BOLT	S.S
29	PUMP COUPLING	S.S. - 410

**Performance Chart • Model: RS-41, RT-41**

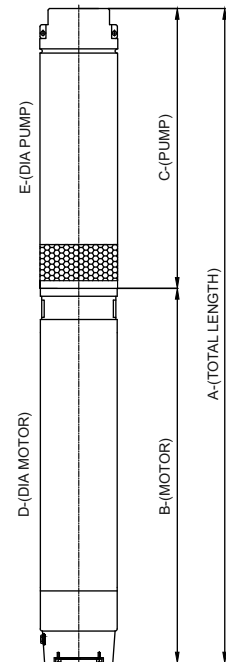
Outlet Size 1.5" (38 mm)

Model: RS-41		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	24	42	48	60	66	72	90
8	2.00		77	66	58	53	47	43	27
10	2.00		96	83	72	66	59	54	34
12	3.00		115	99	86	79	71	65	40
13	3.00		125	108	94	86	77	70	44
15	5.00		144	124	108	99	89	81	50
17	5.00		163	141	122	113	100	92	57
18	5.00		173	149	130	119	106	97	60
20	5.00		192	166	144	132	118	108	67
22	5.00		211	182	158	146	130	119	74
25	5.00		240	207	180	166	148	135	84
Model: RT-41		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	24	42	48	60	66	72	90
7	2.0		67	58	50	46	41	38	23
8	2.0		77	66	58	53	47	43	27
10	2.0		96	83	72	66	59	54	34
12	3.0		115	99	86	79	71	65	40
13	3.0		125	108	94	86	77	70	44
15	4.0		144	124	108	99	89	81	50
17	4.0		163	141	122	113	100	92	57
18	5.0		173	149	130	119	106	97	60
20	5.0		192	166	144	132	118	108	67
22	5.0		211	182	158	146	130	119	74
25	5.0	240	207	180	166	148	135	84	

All Dimension are in mm		
<b>A</b>	<b>B</b>	<b>C</b>
±20	±10	±10

**GA Drawing Dimension • Model: RS-41, RT-41**

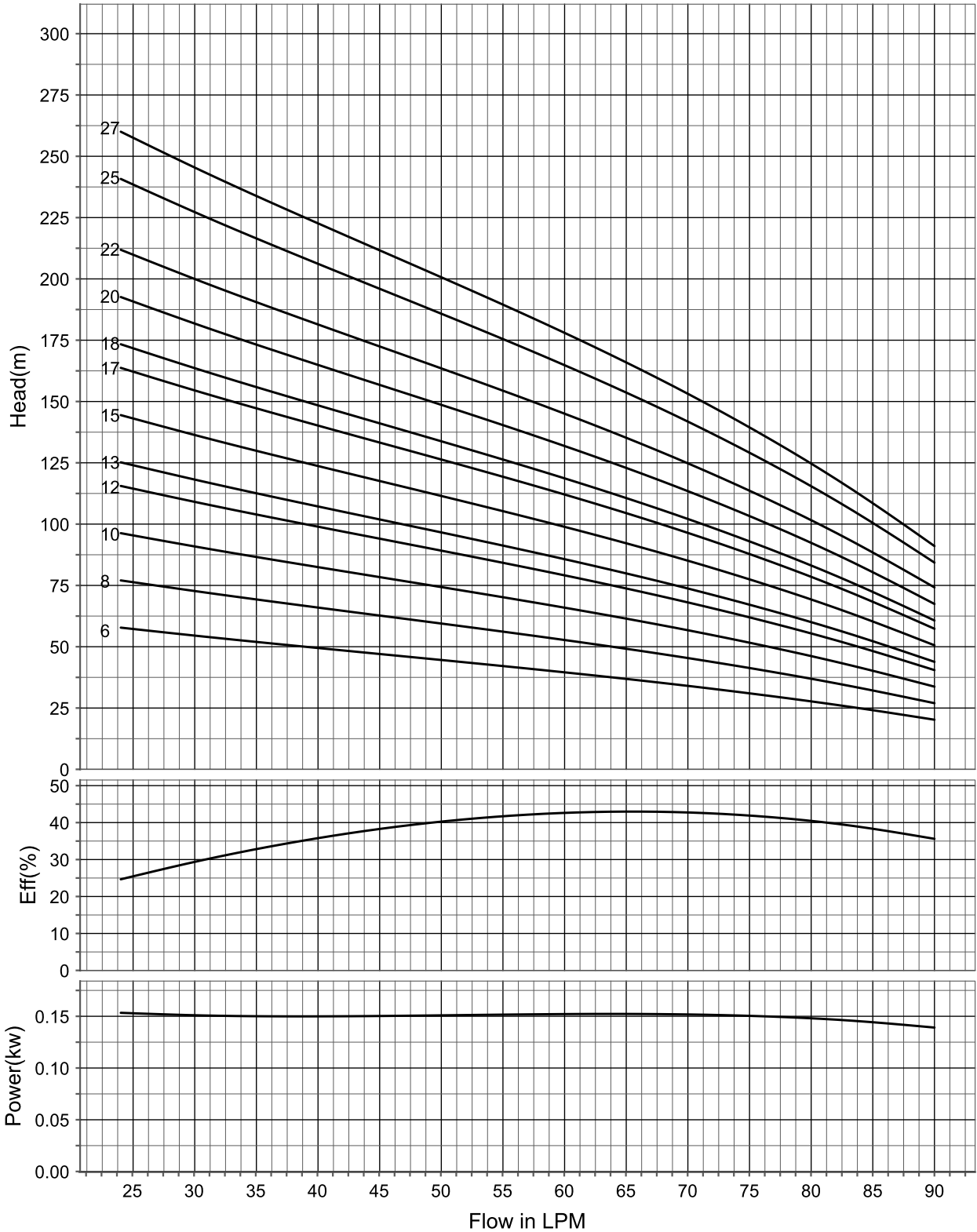
Type	HP	Stage	B Motor Length	C Pump Length	A Total	D Motor Dia	E Pump Dia	Motor Weight	Pump Weight	Total Weight
RS-41	2	8	590	408	998	97	97	22	4	26
RS-41	2	10	590	458	1048	97	97	22	4	26
RS-41	3	12	705	538	1243	97	97	27	5	32
RS-41	3	13	705	563	1268	97	97	27	5	32
RS-41	5	15	745	654	1399	97	97	29	6	35
RS-41	5	17	745	704	1449	97	97	29	7	36
RS-41	5	18	745	729	1474	97	97	29	8	37
RS-41	5	20	745	779	1524	97	97	29	9	38
RS-41	5	22	745	859	1604	97	97	29	9	38
RS-41	5	25	745	946	1691	97	97	29	10	39
RT-41	2	7	590	383	973	97	97	22	3	25
RT-41	2	8	590	408	998	97	97	22	4	26
RT-41	2	10	590	458	1048	97	97	22	4	26
RT-41	3	12	620	534	1154	97	97	27	5	32
RT-41	3	13	620	563	1183	97	97	27	5	32
RT-41	4	15	670	654	1324	97	97	25	6	31
RT-41	4	17	670	704	1374	97	97	25	7	32
RT-41	5	18	705	729	1434	97	97	29	8	37
RT-41	5	20	705	779	1484	97	97	29	9	38
RT-41	5	22	705	859	1564	97	97	29	10	39
RT-41	5	25	705	946	1651	97	97	29	11	40





**Performance Curves • Model: RS-41, RT-41**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 38 mm • Max OD: 98 mm • Min Bore: 100 mm

**Performance Chart • Model: RS-42, RT-42**

Outlet Size 1.5" (38 mm)

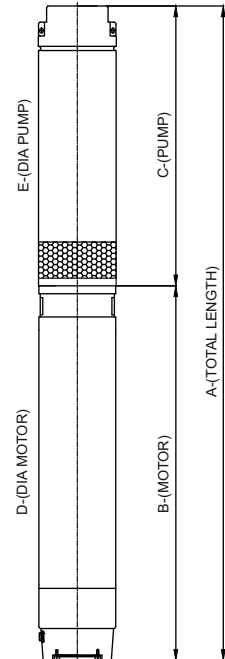
Model: RS-42		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	24	48	72	96	120	144	168
8	2.00		67	61	56	50	40	30	16
10	3.00		84	76	71	62	50	37	20
11	3.00		92	84	78	68	55	41	22
12	5.00		100	92	85	74	60	45	24
15	5.00		125	114	106	93	76	56	30
16	5.00		134	122	113	99	81	60	32
18	5.00		150	137	127	111	91	67	36
20	5.00		167	153	141	124	101	75	40
Model: RT-42			DISCHARGE IN LPM						
STG.	H.P.	HEAD IN METERS	24	48	72	96	120	144	168
7	2.0		58	53	49	43	35	26	14
8	2.0		67	61	56	50	40	30	16
10	3.0		84	76	71	62	50	37	20
11	3.0		92	84	78	68	55	41	22
12	4.0		100	92	85	74	60	45	24
15	4.0		125	114	106	93	76	56	30
16	5.0		134	122	113	99	81	60	32
18	5.0		150	137	127	111	91	67	36
20	5.0		167	153	141	124	101	75	40

All Dimension are in mm

A	B	C
±20	±10	±10

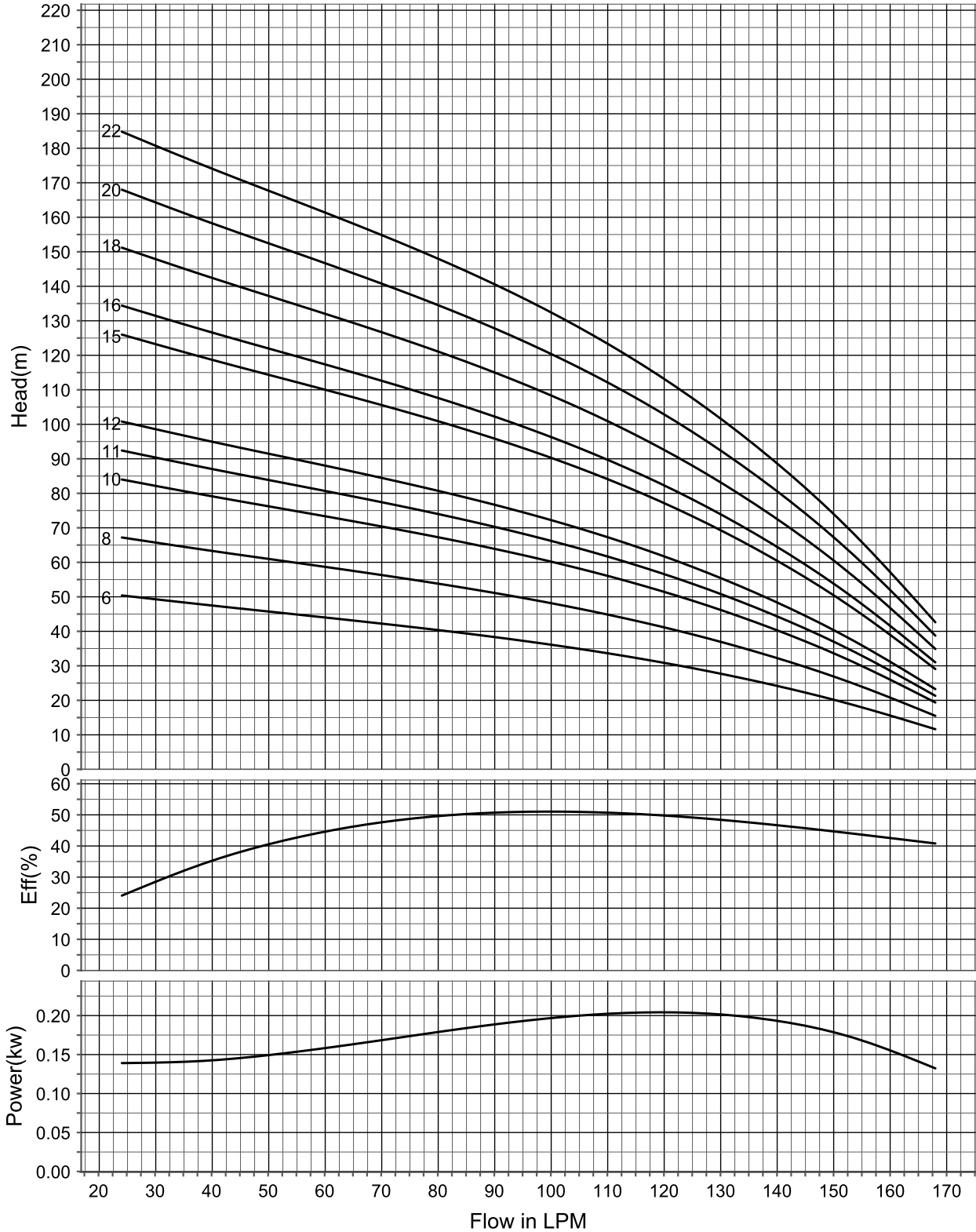
**GA Drawing Dimension • Model: RS-42, RT-42**

Type	HP	Stage	B Motor Length	C Pump Length	A Total	D Motor Dia	E Pump Dia	Motor Weight	Pump Weight	Total Weight
RS-42	2	8	590	480	1070	97	97	22	5	27
RS-42	3	10	705	548	1253	97	97	27	5	32
RS-42	3	11	705	583	1288	97	97	27	5	32
RS-42	5	12	745	590	1335	97	97	29	6	35
RS-42	5	15	745	688	1433	97	97	29	6	35
RS-42	5	16	745	824	1569	97	97	29	6	35
RS-42	5	18	745	892	1637	97	97	29	7	36
RS-42	5	20	745	960	1705	97	97	29	7	36
RT-42	2	7	590	446	1036	97	97	22	4	26
RT-42	2	8	590	480	1070	97	97	22	5	27
RT-42	3	10	620	548	1168	97	97	27	5	32
RT-42	3	11	620	582	1202	97	97	27	5	32
RT-42	4	12	670	688	1358	97	97	25	6	31
RT-42	4	15	670	790	1460	97	97	25	6	31
RT-42	5	16	620	824	1444	97	97	29	6	35
RT-42	5	18	705	892	1597	97	97	29	7	36
RT-42	5	20	705	960	1665	97	97	29	7	36



**Performance Curves • Model: RS-42, RT-42**

Speed : 3480.0 RPM, Frequency : 60Hz



Outlet: 38 mm • Max OD: 98 mm • Min Bore: 100 mm

**Performance Chart • Model: RS-43, RT-43**

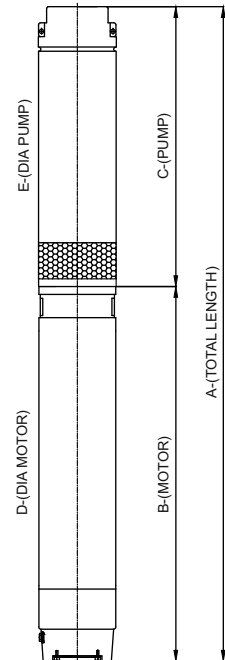
Outlet Size 1.5" (38 mm)

Model: RS-43		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	90	108	138	144	156	174	180
6	2.00		48	47	41	39	35	29	25
7	3.00		55	54	47	45	40	34	29
9	3.00		71	70	61	58	52	44	38
10	5.00		79	78	68	65	58	49	42
12	5.00		95	93	81	78	69	59	50
15	5.00		119	117	102	97	86	73	63
Model: RT-43		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	90	108	138	144	156	174	180
6	2.0		48	47	41	39	35	29	25
7	3.0		55	54	47	45	40	34	29
9	3.0		71	70	61	58	52	44	38
10	4.0		79	78	68	65	58	49	42
11	4.0		87	86	74	71	63	54	46
12	5.0		95	93	81	78	69	59	50
15	5.0	119	117	102	97	86	73	63	

All Dimension are in mm		
<b>A</b>	<b>B</b>	<b>C</b>
±20	±10	±10

**GA Drawing Dimension • Model: RS-43, RT-43**

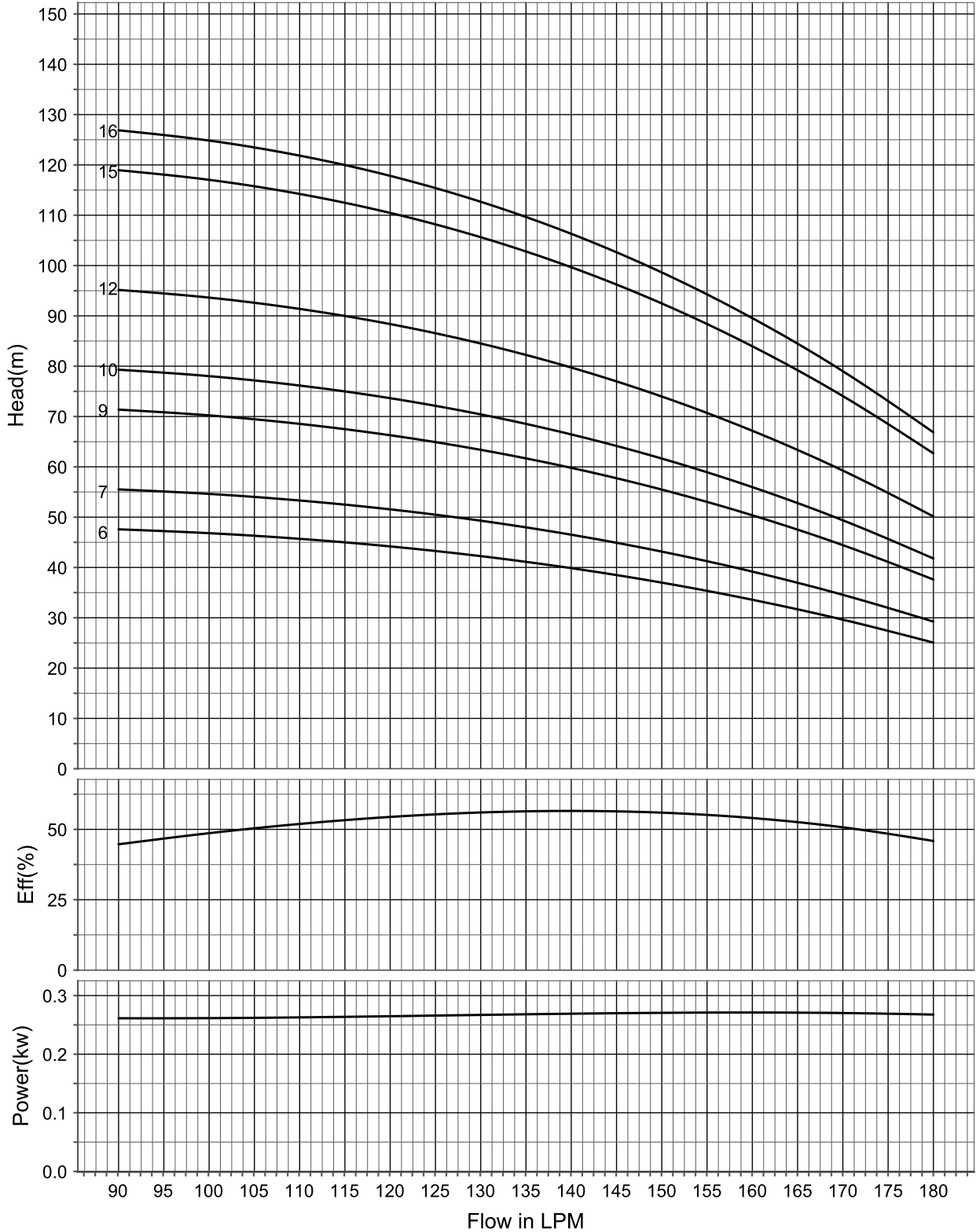
Type	HP	Stage	B Motor Length	C Pump Length	A Total	D Motor Dia	E Pump Dia	Motor Weight	Pump Weight	Total Weight
RS-43	2	6	590	412	1002	97	97	22	4	26
RS-43	3	7	705	446	1151	97	97	27	4	31
RS-43	3	9	705	514	1219	97	97	27	5	32
RS-43	5	10	745	589	1334	97	97	29	5	34
RS-43	5	12	745	688	1433	97	97	29	5	34
RS-43	5	15	745	790	1535	97	97	29	6	35
RT-43	2	6	590	412	1002	97	97	22	4	26
RT-43	3	7	620	446	1066	97	97	27	4	31
RT-43	3	9	620	514	1134	97	97	27	5	32
RT-43	4	10	670	589	1259	97	97	25	5	30
RT-43	4	11	670	624	1294	97	97	25	5	30
RT-43	5	12	705	688	1393	97	97	29	5	34
RT-43	5	15	705	790	1495	97	97	29	6	35





**Performance Curves • Model: RS-43, RT-43**

Speed : 3480.0 RPM, Frequency : 60Hz



Outlet: 38 mm • Max OD: 98 mm • Min Bore: 100 mm

### Performance Chart • Model: RS-49, RT-49

Outlet Size 1.25" (32 mm)

Model: RS-49		HEAD IN METERS	DISCHARGE IN LPM						
STG.	H.P.		19	28	32	36	46	53	62
12	2.00		104	97	91	83	69	59	48
15	2.00		130	121	113	104	86	73	60
16	3.00		138	129	121	111	92	78	65
18	3.00		156	145	136	125	104	88	73
20	5.00		173	161	151	139	115	98	81
22	5.00		190	177	166	153	127	108	89
25	5.00		216	202	189	174	144	122	101
27	5.00		233	218	204	188	156	132	109
28	5.00		242	226	212	195	161	137	113
30	5.00	259	242	227	209	173	147	121	

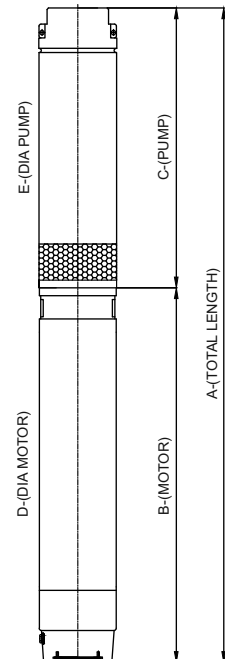
Model: RT-49		HEAD IN METERS	DISCHARGE IN LPM						
STG.	H.P.		19	28	32	36	46	53	62
12	2.0		104	97	91	83	69	59	48
15	2.0		130	121	113	104	86	73	60
16	3.0		138	129	121	111	92	78	65
18	3.0		156	145	136	125	104	88	73
20	4.0		173	161	151	139	115	98	81
22	4.0		190	177	166	153	127	108	89
25	4.0		216	202	189	174	144	122	101
27	5.0		233	218	204	188	156	132	109
28	5.0		242	226	212	195	161	137	113
30	5.0	259	242	227	209	173	147	121	

All Dimension are in mm

A	B	C
±20	±10	±10

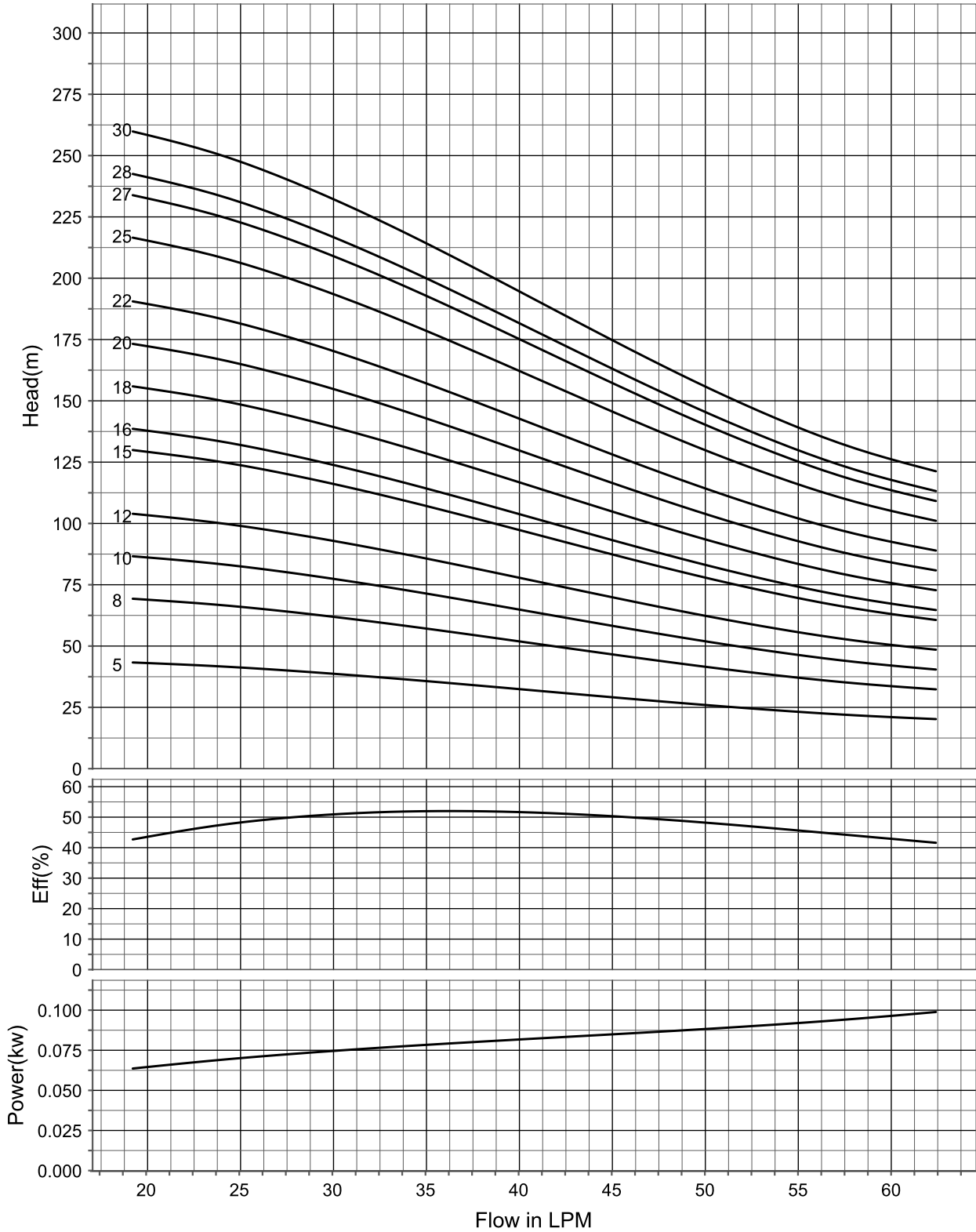
### GA Drawing Dimension • Model: RS-49, RT-49

Type	HP	Stage	B Motor Length	C Pump Length	A Total	D Motor Dia	E Pump Dia	Motor Weight	Pump Weight	Total Weight
RS-49	2	12	590	514	1104	97	97	22	5	27
RS-49	2	15	590	583	1173	97	97	22	6	28
RS-49	3	16	705	606	1311	97	97	27	6	33
RS-49	3	18	705	652	1357	97	97	27	6	33
RS-49	5	20	745	739	1484	97	97	29	7	36
RS-49	5	22	745	815	1560	97	97	29	7	36
RS-49	5	25	745	874	1619	97	97	29	8	37
RS-49	5	27	745	919	1664	97	97	29	8	37
RS-49	5	28	745	942	1687	97	97	29	9	38
RS-49	5	30	745	987	1732	97	97	29	10	39
RT-49	2	12	590	514	1104	97	97	22	5	27
RT-49	2	15	590	583	1173	97	97	22	6	28
RT-49	3	16	620	606	1226	97	97	27	6	33
RT-49	3	18	620	652	1272	97	97	27	6	33
RT-49	4	20	590	739	1329	97	97	25	7	32
RT-49	4	22	670	815	1485	97	97	25	7	32
RT-49	4	25	670	874	1544	97	97	25	8	33
RT-49	5	27	705	919	1624	97	97	29	8	37
RT-49	5	28	705	942	1647	97	97	29	9	38
RT-49	5	30	705	987	1692	97	97	29	10	39



**Performance Curves • Model: RS-49, RT-49**

Speed : 3480.0 RPM, Frequency : 60Hz



Outlet: 32 mm • Max OD: 98 mm • Min Bore: 100 mm

### Performance Chart • Model: RS-49A, RT-49A

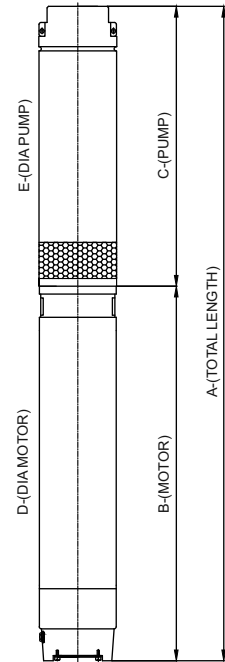
Outlet Size 1.25" (32 mm)

Model: RS-49A		HEAD IN METERS	DISCHARGE IN LPM						
STG.	H.P.		14	19	26	30	42	48	60
16	2.00		137	130	114	109	89	73	44
18	2.00		154	147	128	123	101	82	49
20	3.00		171	163	142	136	112	92	55
22	3.00		188	179	156	150	123	101	60
27	5.00		231	220	192	184	151	124	74
Model: RT-49A		HEAD IN METERS	DISCHARGE IN LPM						
STG.	H.P.		14	19	26	30	42	48	60
16	2.0		137	130	114	109	89	73	44
18	2.0		154	147	128	123	101	82	49
20	3.0		171	163	142	136	112	92	55
22	3.0		188	179	156	150	123	101	60
27	4.0		231	220	192	184	151	124	74

All Dimension are in mm		
A	B	C
±20	±10	±10

### GA Drawing Dimension • Model: RS-49A, RT-49A

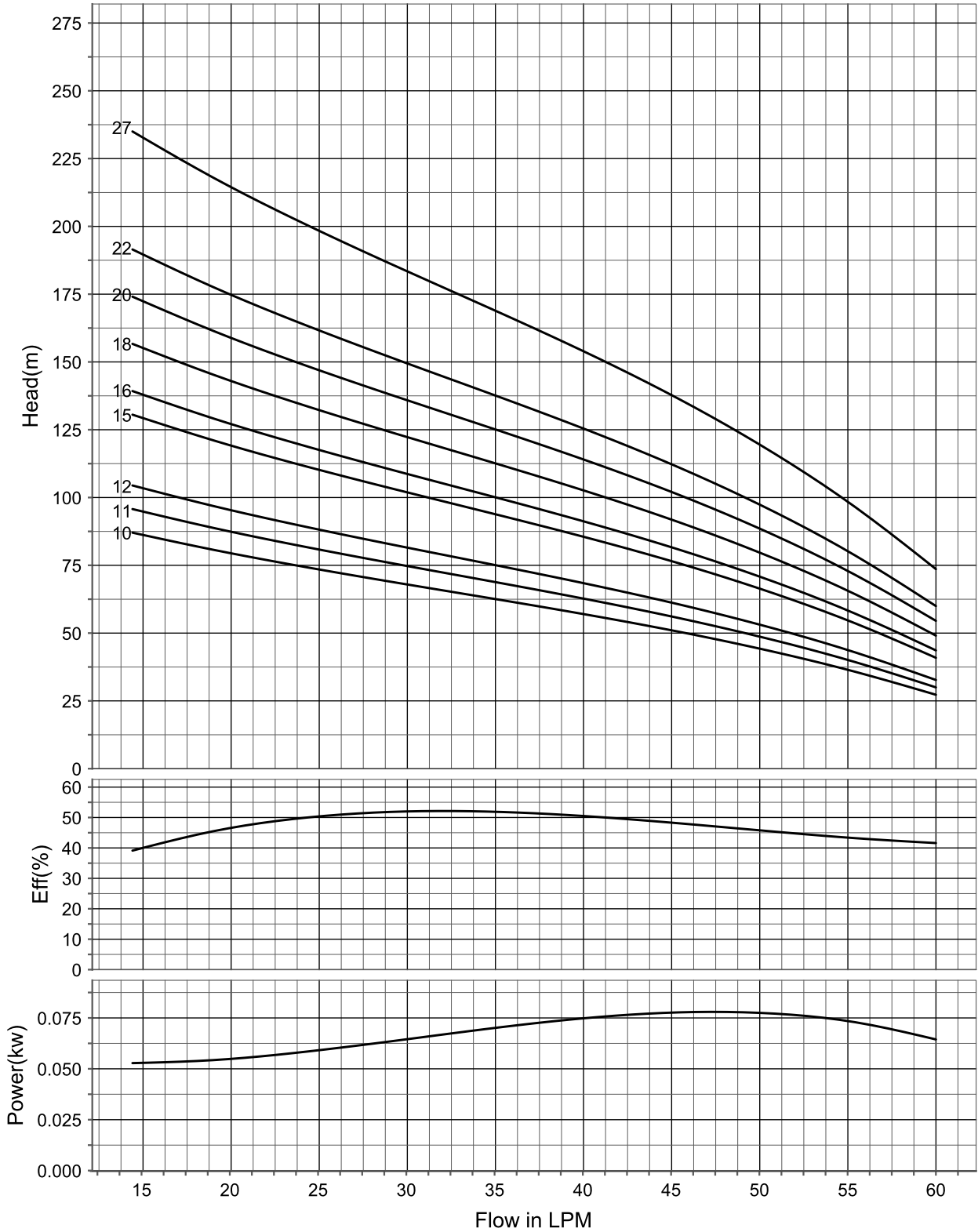
Type	HP	Stage	B Motor Length	C Pump Length	A Total	D Motor Dia	E Pump Dia	Motor Weight	Pump Weight	Total Weight
RS-49A	2	16	590	606	1196	97	97	22	6	28
RS-49A	2	18	590	652	1242	97	97	22	6	28
RS-49A	3	20	705	698	1403	97	97	27	7	34
RS-49A	3	22	705	774	1479	97	97	27	7	34
RS-49A	5	27	745	919	1664	97	97	29	8	37
RT-49A	2	16	590	606	1196	97	97	22	6	28
RT-49A	2	18	590	652	1242	97	97	22	6	28
RT-49A	3	20	620	698	1318	97	97	27	7	34
RT-49A	3	22	620	774	1394	97	97	27	7	34
RT-49A	4	27	670	919	1589	97	97	25	8	33





**Performance Curves • Model: RS-49A, RT-49A**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 32 mm • Max OD: 98 mm • Min Bore: 100 mm

**Performance Chart • Model: MS-412, MT-412**

Outlet Size 2" (50 mm)

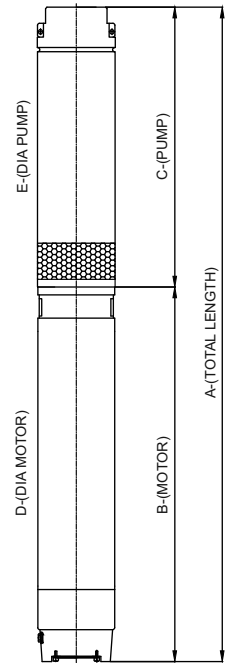
Model: MS-412		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	92	119	163	182	223	259	289
6	3.00		41	38	33	30	23	15	9
8	5.00		55	51	44	40	31	20	12
10	5.00		68	64	55	50	38	25	14
12	5.00		82	76	66	60	46	30	17
Model: MT-412			DISCHARGE IN LPM						
STG.	H.P.	HEAD IN METERS	92	119	163	182	223	259	289
5	3.0		34	32	28	25	19	13	7
6	3.0		41	38	33	30	23	15	9
8	4.0		55	51	44	40	31	20	12
10	5.0		68	64	55	50	38	25	14
12	5.0		82	76	66	60	46	30	17

All Dimension are in mm

A	B	C
±20	±10	±10

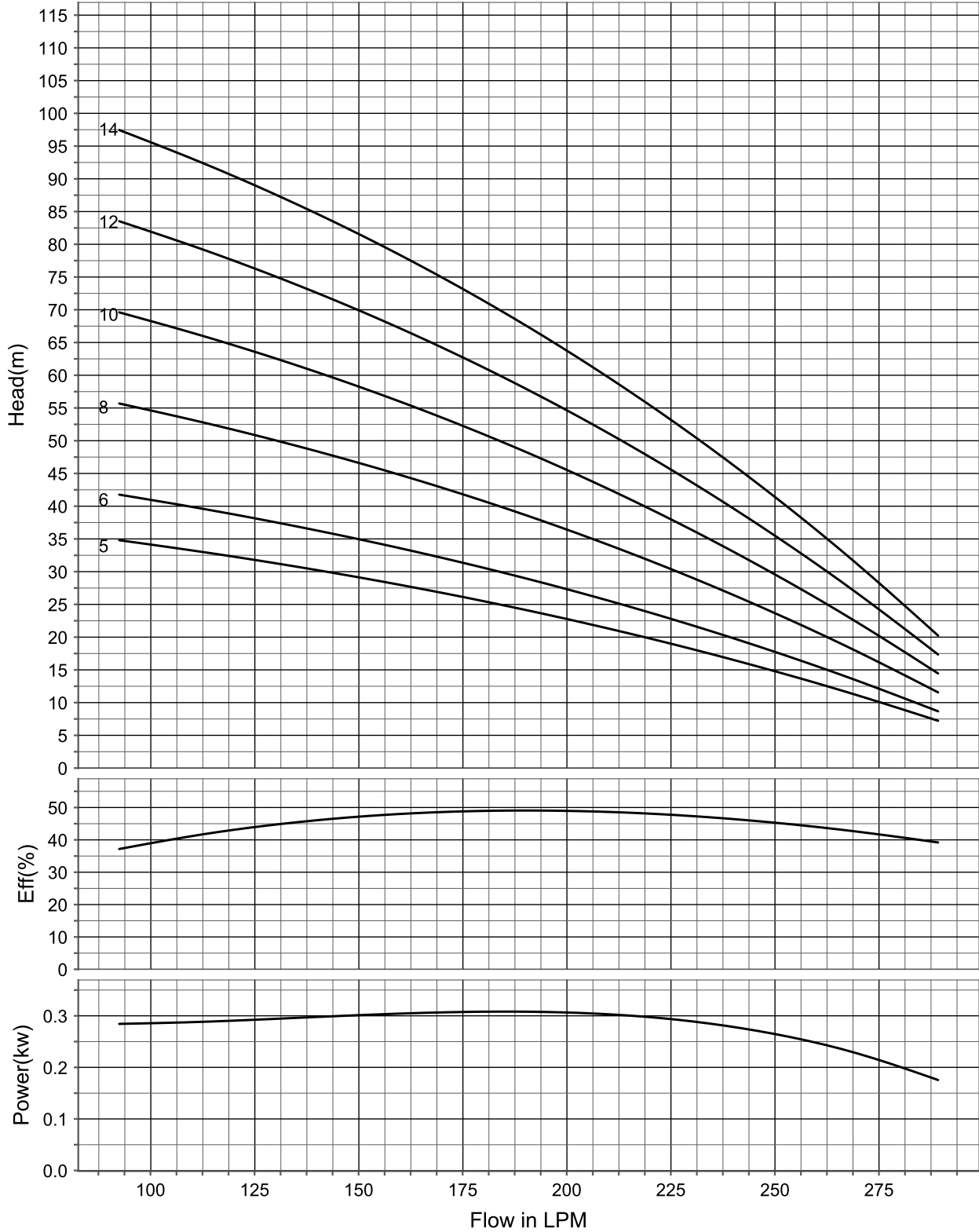
**GA Drawing Dimension • Model: MS-412, MT-412**

Type	HP	Stage	B Motor Length	C Pump Length	A Total	D Motor Dia	E Pump Dia	Motor Weight	Pump Weight	Total Weight
MS-412	3	6	705	509	1214	97	97	27	4	31
MS-412	5	8	745	663	1408	97	97	29	5	34
MS-412	5	10	745	769	1514	97	97	29	7	36
MS-412	5	12	745	875	1620	97	97	29	9	38
MT-412	3	5	620	455	1075	97	97	27	4	31
MT-412	3	6	620	508	1128	97	97	27	5	32
MT-412	4	8	670	662	1332	97	97	25	5	30
MT-412	5	10	705	768	1473	97	97	29	7	36
MT-412	5	12	705	874	1579	97	97	29	9	38



**Performance Curves • Model: MS-412, MT-412**

Speed : 3480.0 RPM, Frequency : 60Hz



Outlet: 50 mm • Max OD: 98 mm • Min Bore: 100 mm

**Performance Chart • Model: MS-418, MT-418**

Outlet Size 2" (50 mm)

Model: MS-418		HEAD IN METERS	DISCHARGE IN LPM						
STG.	H.P.		199	240	300	360	420	439	480
5	5.00		32	27	24	17	12	8	6
8	5.00		52	43	39	27	19	13	10
9	5.00		58	49	44	31	21	15	11

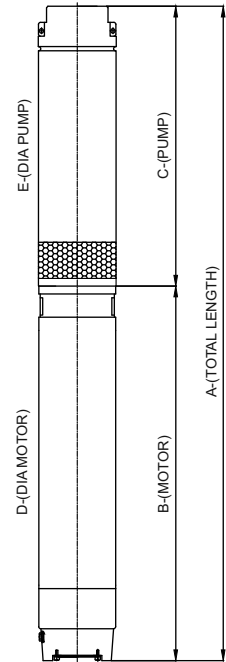
Model: MT-418		HEAD IN METERS	DISCHARGE IN LPM						
STG.	H.P.		199	240	300	360	420	439	480
5	4.0		32	27	24	17	12	8	6
8	5.0		52	43	39	27	19	13	10
9	5.0		58	49	44	31	21	15	11

All Dimension are in mm

A	B	C
±20	±10	±10

**GA Drawing Dimension • Model: MS-418, MT-418**

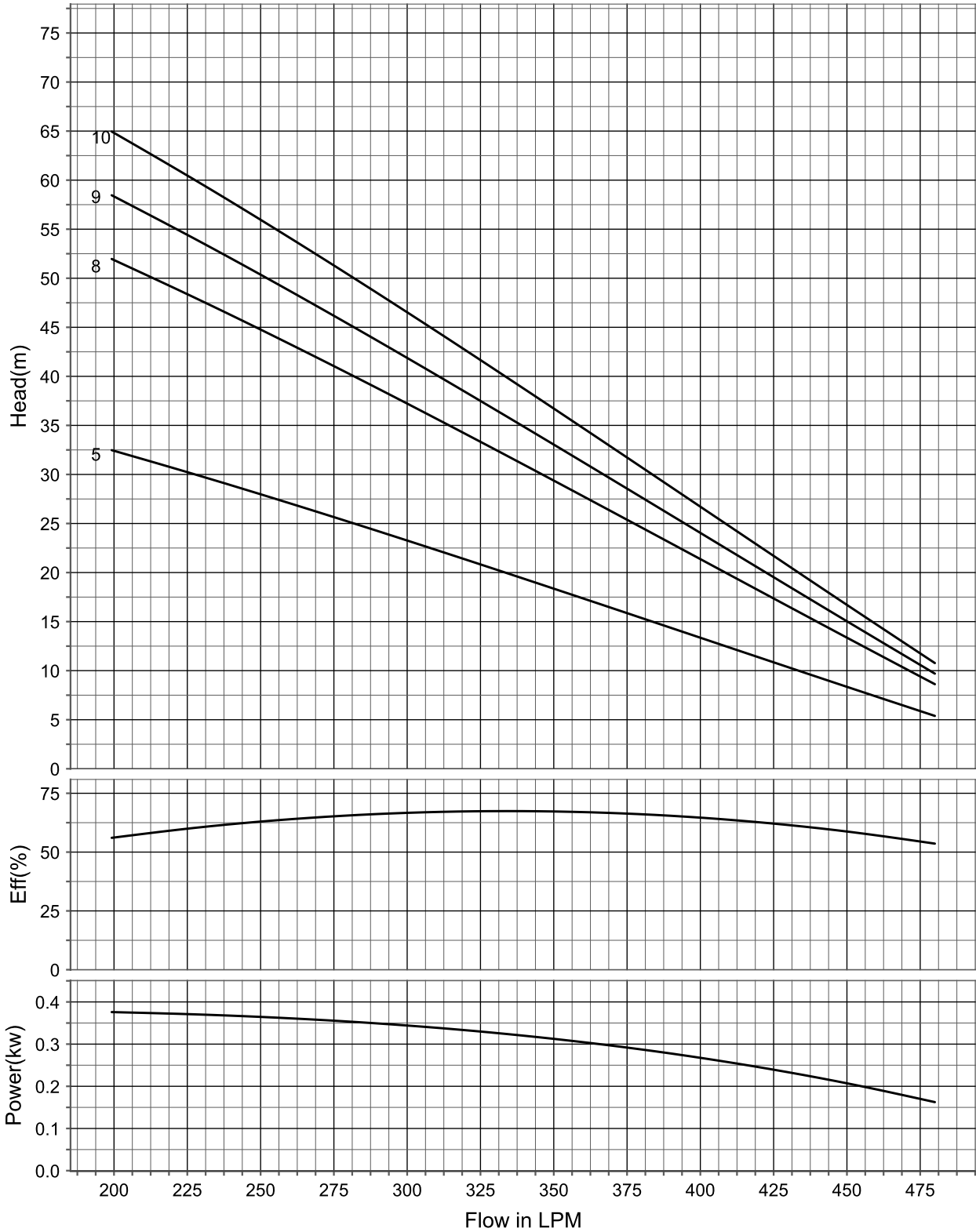
Type	HP	Stage	B Motor Length	C Pump Length	A Total	D Motor Dia	E Pump Dia	Motor Weight	Pump Weight	Total Weight
MS-418	5	5	745	622	1367	97	97	29	6	35
MS-418	5	8	745	847	1592	97	97	29	9	38
MS-418	5	9	745	922	1667	97	97	29	9	38
MT-418	4	5	670	622	1292	97	97	25	6	31
MT-418	5	8	705	847	1552	97	97	29	9	38
MT-418	5	9	705	922	1627	97	97	29	9	38





**Performance Curves • Model: MS-418, MT-418**

Speed : 3480.0 RPM, Frequency : 60Hz



Outlet: 50 mm • Max OD: 98 mm • Min Bore: 100 mm

### Performance Chart • Model: MS-419, MT-419

Outlet Size 2.5" (65 mm)

Model: MS-419		HEAD IN METERS	DISCHARGE IN LPM					
STG.	H.P.		150	240	306	366	420	492
4	5.00	29	27	25	22	19	17	16
5	5.00	36	34	32	27	24	22	20
6	5.00	43	41	38	32	29	26	24
7	5.00	50	48	44	38	34	30	28

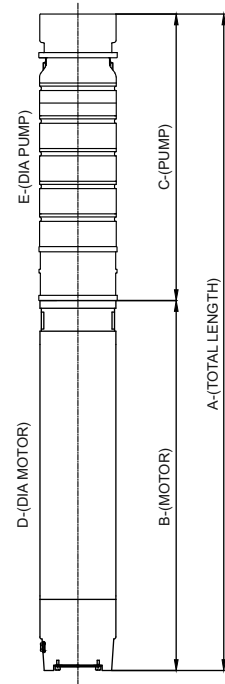
Model: MT-419		HEAD IN METERS	DISCHARGE IN LPM					
STG.	H.P.		150	240	306	366	420	492
4	5.0	29	27	25	22	19	17	16
5	5.0	36	34	32	27	24	22	20
6	5.0	43	41	38	32	29	26	24
7	5.0	50	48	44	38	34	30	28

All Dimension are in mm

A	B	C
±20	±10	±10

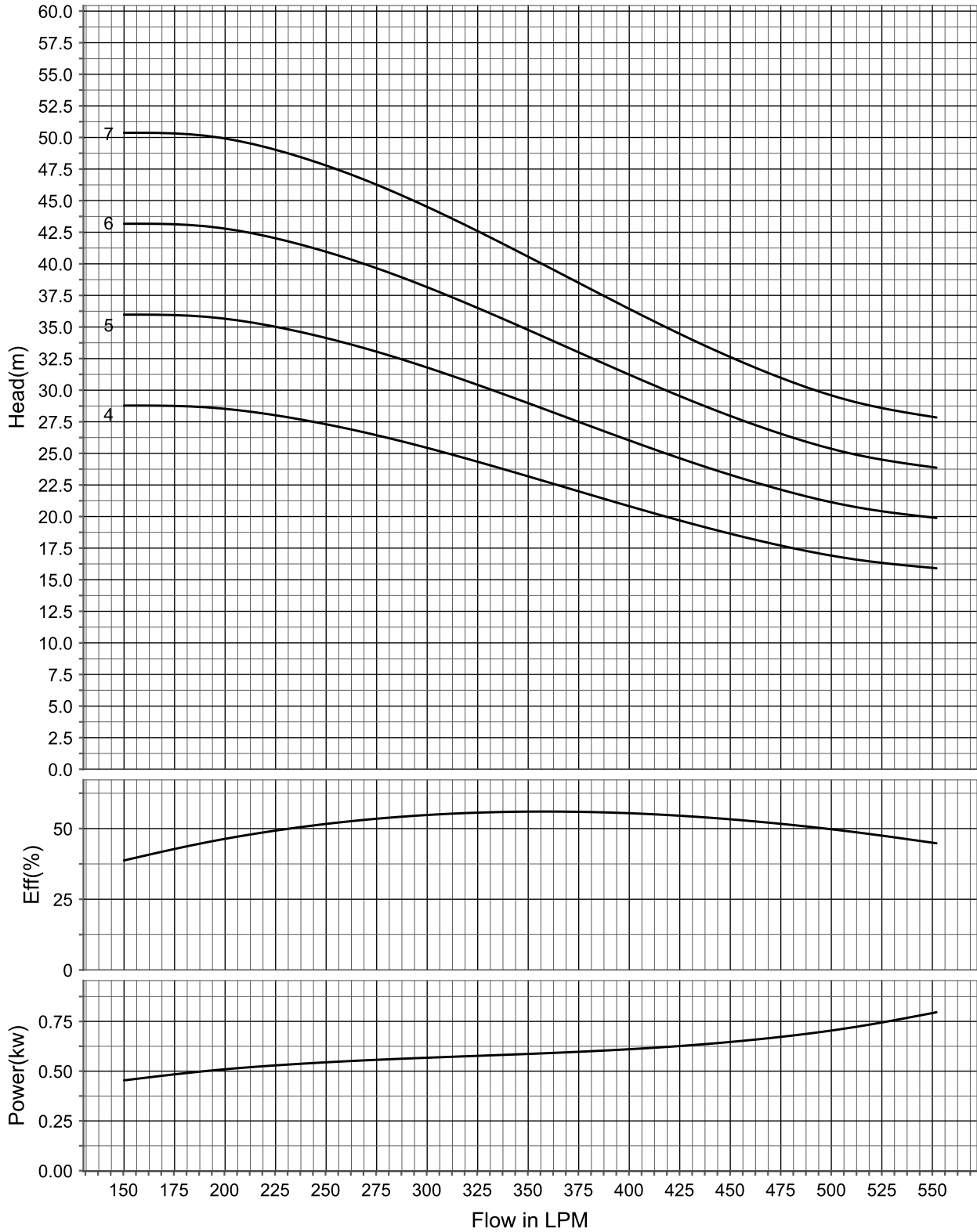
### GA Drawing Dimension • Model: MS-419, MT-419

Type	HP	Stage	B Motor Length	C Pump Length	A Total	D Motor Dia	E Pump Dia	Motor Weight	Pump Weight	Total Weight
MS-419	5	4	745	569	1314	97	97	29	13	42
MS-419	5	5	745	644	1389	97	97	29	14	43
MS-419	5	6	745	719	1464	97	97	29	14	43
MS-419	5	7	745	794	1539	97	97	29	15	44
MT-419	5	4	705	569	1274	97	97	29	13	42
MT-419	5	5	705	644	1349	97	97	29	14	43
MT-419	5	6	705	719	1424	97	97	29	14	43
MT-419	5	7	705	794	1499	97	97	29	15	44



**Performance Curves • Model: MS-419, MT-419**

Speed : 3480.0 RPM, Frequency : 60Hz

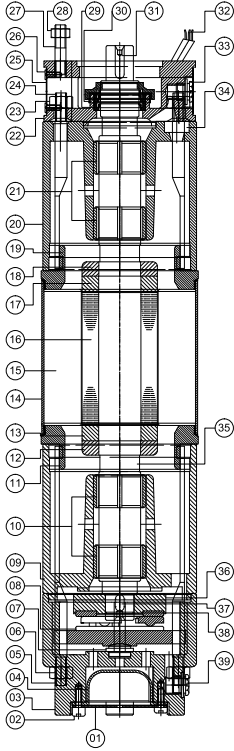


Outlet: 65 mm • Max OD: 98 mm • Min Bore: 100 mm





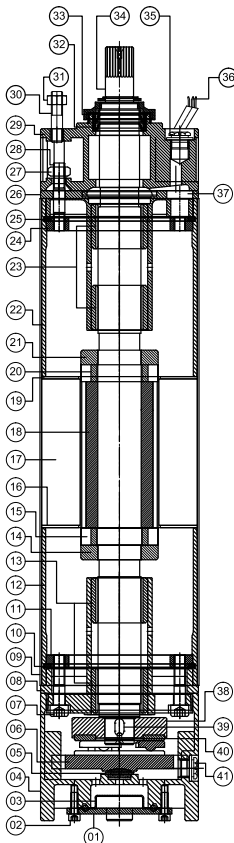
### Cross Section - Motor (Standard)



SR.	DESCRIPTION	MATERIAL
1	BASE PLATE	M.S.
2	M5 SCREW BASE PLATE	S.S.
3	MOTOR BASE	C.I IS-210 FG 200
4	RUBBER CUP	NITRILE RUBBER
5	T- BOLT LOWER SIDE	M.S.
6	T- BOLT HEX NUT LOWER SIDE	S.S.
7	ROCKER SUPPORT	S.S.
8	TILTING BEARING	S.S. -C.I
9	LOWER HOUSING	C.I IS-210 FG 200
10	LOWER BEARING BUSH	LTB-4
11	LOWER SIDE STATOR RING	M.S
12	LOWER BALANCE RING	C.I IS-210 FG 200
13	LOWER SIDE COPPER RING	COPPER
14	STATOR TUBE	S.S.
15	STATOR STAMPING	CRNO
16	ROTOR STAMPING	CRNO
17	UPPER SIDE COPPER RING	COPPER
18	UPPER BALANCE RING	C.I IS-210 FG 200
19	UPPER SIDE STATOR RING	M.S.
20	UPPER HOUSING	C.I IS-210 FG 200

SR.	DESCRIPTION	MATERIAL
21	UPPER BEARING BUSH	LTB-4
22	CONNECTING PIECE	CM IS-210 FG 200
23	T- BOLT HEX NUT UPPER SIDE	S.S.
24	T- BOLT UPPER SIDE	M.S.
25	CONNECTING PIECE STRAINER	S.S.
26	M5 SCREW FOR STRAINER	S.S.
27	STUD / WASHER FOR CONNECTING PIECE	S.S.
28	HEX NUT FOR CONNECTING PIECE STUD	S.S.
29	OIL SEAL	STANDARD
30	SAND GUARD	RUBBER -S.S.
31	COUPLING KEY	S.S
32	CABLE	STANDARD
33	DRAIN PLUG	BRASS
34	RUBBER GROMMET	RUBBER
35	ROTOR COMPLETE	
36	REVOLVING PLATE	CARBON - C.I.
37	REVOLVING PLATE KEY	S.S.
38	REVOLVING PLATE CIRCLIP	SPRING STEEL
39	MOTOR BASE DRAIN PLUG	BRASS

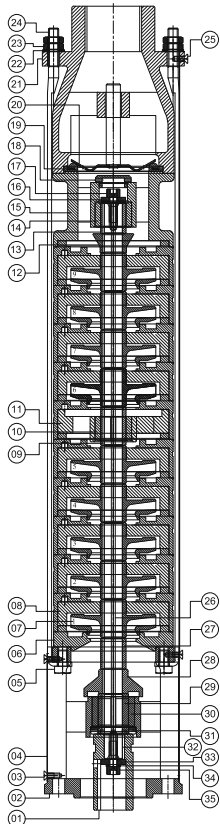
### Cross Section - Motor (Export)



SR.	DESCRIPTION	MATERIAL
1	MOTOR BASE COVER	S.S.
2	ALLEN KEY BOLT FOR MOTOR BASE	S.S.
3	RUBBER CUP	NITRILE RUBBER
4	MOTOR BASE	S.S
5	ROCKER SUPPORT	S.S.
6	TILTING BEARING	S.S. - C.I
7	ALLEN KEY BOLT FOR LOWER FLANGE	S.S.
8	LOWER HOUSING	S.S.
9	STATOR TUBE	S.S.
10	STATOR CIRCLIP LOWER	M.S.
11	FLANGE LOWER SIDE	S.S.
12	LOWER SIDE COLLAR	S.S.
13	LOWER BEARING BUSH	LTB-4
14	LOWER BALANCE RING	C.I IS- 210 FG 200
15	LOWER SIDE COPPER RING	COPPER
16	LOWER SIDE END	M.S
17	STATOR STAMPING	CRNO
18	ROTOR STAMPING	CRNO
19	UPPER SIDE END	M.S
20	UPPER SIDE COPPER RING	COPPER
21	UPPER BALANCE RING	C.I IS- 210 FG 200

SR.	DESCRIPTION	MATERIAL
22	UPPER SIDE COLLAR	S.S
23	UPPER BEARING BUSH	LTB-4
24	FLANGE UPPER SIDE	S.S
25	STATOR CIRCLIP UPPER	M.S.
26	UPPER HOUSING	S.S
27	HEX NUT FOR LOWER FLANGE FITTED	S.S.
28	STUD FOR UPPER FLANGE FITTED	S.S.
29	CONNECTING PIECE	S.S.
30	STUD FOR CONNECTING	S.S.
31	STUD FOR CONNECTING PIECE	S.S.
32	OIL SEAL	STANDARD
33	SAND GUARD SEAT	RUBBER -
34	ROTOR COMPLETE - SPLINES	S.S.
35	DRAIN PLUG	BRASS
36	CABLE	STANDARD
37	RUBBER GROMMET	RUBBER
38	REVOLVING PLATE	CARBON -
39	REVOLVING PLATE KEY	S.S.
40	REVOLVING PLATE CIRCLIP	SPRING
41	MOTOR BASE DRAIN PLUG	BRASS

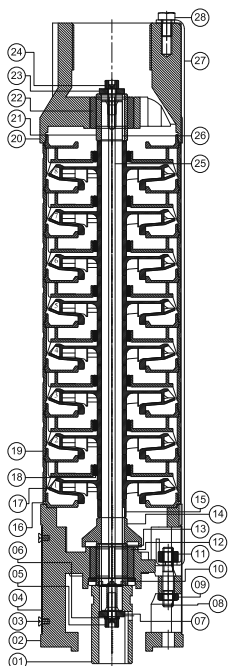
**Cross Section - Pump R-61 to R-65**



SR.	DESCRIPTION	MATERIAL
1	PUMP COUPLING	S.S. 410
2	ADOPTER	C.I IS-210 FG 200
3	M5 SCREW FOR STRAINER	S.S.
4	SUCTION STRAINER FOR ADOPTER	S.S. - 304
5	M 10 HEX BOLT FOR ADOPTER	M.S.
6	ADOPTER PLATE	C.I IS- 210 FG 200
7	IMPELLER	S.S.
8	STAGE CASING	C.I IS-210 FG 200
9	MIDDLE STAGE SLEEVE	S.S
10	MIDDLE STAGE BEARING BUSH	L.T.B-4
11	GUIDE VANE	NORYL
12	UPPER SAND GUARD	C.I IS-210 FG 200
13	SAND GUARD SLEEVE TOP	S.S.
14	DISCHARGE OUT-LET BEARING BUSH	L.T.B-4
15	DISCHARGE OUT-LET	C.I IS-210 FG 200
16	WASHER FOR TOP SLEEVE	BRASS
17	M8 ALLEN SCREW FOR CPL & WASHER	S.S.
18	ADJUSTING CAP	C.I IS-210 FG 200

SR.	DESCRIPTION	MATERIAL
19	"O" RING FOR N.R.V.	NITRILE RUBBER
20	FLAP WITH STM.	S.S.
21	N.R.V. BODY	C.I IS- 210 FG 200
22	L TYPE BOLT WASHER	S.S.
23	HEX NUT	S.S.
24	L TYPE BOLT	M.S.
25	MS SCREW FOR & CABLE CLIPS	S.S.
26	PUMP SHAFT KEY	S.S. 410
27	SAND GUARD SLEEVE	S.S. 410
28	PUMP SAND GUARD	C.I IS- 210 FG 200
29	ADOPTER SLEEVE	S.S.410
30	ADOPTER BEARING BUSH	L.T.B-4
31	COUNTER THRUST BEARING	L.T.B-4
32	PUMP SHAFT	S.S. 410
33	WASHER FOR COUPLING	S.S. 410
34	SPRING WASHER	M.S.
35	M8 ALLEN SCREW FOR CPL & WASHER	S.S.

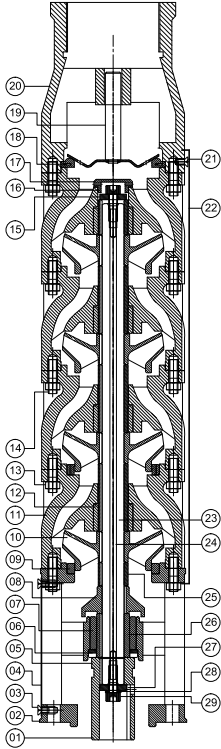
**Cross Section - Pump RHS-62K to RHS-67**



SR.	DESCRIPTION	MATERIAL
1	PUMP COUPLING	S.S. 410
2	ADOPTER	C.I IS-210 FG 200
3	M5 SCREW FOR STRAINER	S.S.
4	SUCTION STRAINER FOR ADOPTER	S.S. - 304
5	M8 ALLEN SCREW FOR CPL & WASHER	S.S.
6	SPRING WASHER	M.S.
7	WASHER FOR COUPLING	S.S. 410
8	ADOPTER STUD	M.S.
9	HEX NUT	S.S.
10	COUNTER THRUST BEARING	LT.B-4
11	SQUARE NUT	S.S.
12	ADOPTER BEARING BUSH	LT.B-4
13	ADOPTER SLEEVE	S.S. 410
14	PUMP SAND GUARD	C.I IS-210 FG 200

SR.	DESCRIPTION	MATERIAL
15	DISTANCE SLEEVE	S.S.410
16	ADOPTER PLATE	S.S.
17	IMPELLER	S.S.
18	STAGE CASING BUSH	LT.B-4 . NITRILE RUBBER
19	STAGE CASING	S.S.
20	N.R.V. BODY	C.I IS-210 FG 200
21	TOP SLEEVE	S.S. 410
22	N.R.V. BODY BEARING BUSH	LT.B-4
23	WASHER FOR TOP SLEEVE	BRASS
24	M8 ALLEN SCREW FOR CPL & WASHER	S.S.
25	PUMP SHAFT	S.S.410
26	PUMP SHAFT KEY	S.S.
27	PUMP ANGLE	S.S.
28	HEX BOLT	S.S.

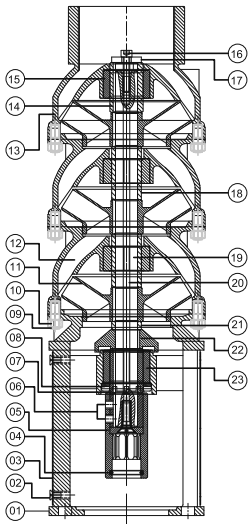
**Cross Section - Pump M60 to M65**



SR.	DESCRIPTION	MATERIAL
1	PUMP COUPLING	S.S. 410
2	ADOPTER	C.I IS- 210 FG 200
3	M5 SCREW FOR STRAINER	S.S.
4	SUCTION STRAINER FOR ADOPTER	S.S. - 304
5	PUMP COUPLING	S.S. 410
6	COUNTER THRUST BEARING	L.T.B-4
7	ADOPTER BEARING BUSH	L.T.B-4
8	PUMP SAND GUARD	C.I IS-210 FG 200
9	NECK RING	L.T.B-4 - NITRILE RUBBER
10	IMPELLER	S.S
11	STAGE CASING	C.I IS-210 FG 200
12	STAGE CASING BUSH	L.T.B-4 - NITRILE RUBBER
13	HEX NUT	S.S.
14	STUD	S.S.

SR.	DESCRIPTION	MATERIAL
15	WASHER FOR TOP SLEEVE	BRASS
16	M8 ALLEN SCREW FOR CPL & WASHER	S.S.
17	ADJUSTING CAP	C.I IS- 210 FG 200
18	SUPPORTING RING FOR NRV	NITRILE RUBBER
19	NRV FLAP	S.S
20	NRV	C.I IS- 210 FG 200
21	CABLE CLIP & M5 SCREW	S.S.
22	CABLE GUARD	S.S.
23	PUMP SHAFT	S.S.410
24	PUMP SHAFT KEY	S.S.
25	SAND GUARD BASE SLEEVE	S.S.
26	ADOPTER SLEEVE	S.S.410
27	WASHER FOR COUPLING	S.S.410
28	SPRING WASHER	M.S.
29	M8 ALLEN SCREW FOR CPL & WASHER	S.S.

**Cross Section - Pump MHS-62 to MHS-65**



SR.	DESCRIPTION	MATERIAL
1	ADOPTER	S.S.- 304
2	M5 SCREW FOR STRAINER	S.S.
3	SUCTION STRAINER FOR ADOPTER	S.S.
4	PUMP COUPLING "O" RING	RUBBER
5	PUMP COUPLING	S.S. 410
6	GRUB SCREW	S.S.
7	ADOPTER SLEEVE	S.S.410
8	COUNTER THRUST BEARING	L.T.B-4
9	HEX NUT	S.S.
10	STUD	S.S.
11	IMPELLER	S.S.
12	STAGE CASING	S.S.

SR.	DESCRIPTION	MATERIAL
13	STAGE CASING WITH NRV BODY	S.S.
14	TOP SLEEVE	S.S.
15	BEARING BUSH	L.T.B-4
16	WASHER FOR TOP SLEEVE	BRASS
17	M8 ALLEN SCREW FOR CPL & WASHER	S.S.
18	STAGE SLEEVE	S.S.
19	PUMP SHAFT	S.S.410
20	PUMP SHAFT KEY	S.S.
21	SAND GUARD BASE SLEEVE	S.S.
22	PUMP SAND GUARD	C.I IS-210FG200
23	ADOPTER BEARING BUSH	L.T.B-4

**Performance Chart • Model: R-61**

Outlet Size 2" (50 mm)

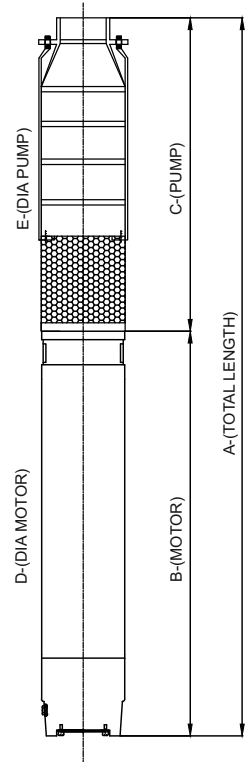
		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	34	46	72	86	102	115	127
6	4.0		73	69	65	60	56	52	48
8	5.0		98	92	86	81	75	69	63
10	5.0		122	115	108	101	94	86	79
12	7.5		147	138	130	121	112	104	95
14	7.5		171	161	151	141	131	121	111
15	10.0		184	173	163	151	141	130	120
16	10.0		196	184	173	161	150	138	127
18	10.0		220	207	194	181	168	156	143
20	10.0		245	230	216	202	187	173	158
22	10.0		269	253	238	222	206	190	174
25	12.5		307	288	271	252	235	216	199

All Dimension are in mm

A	B	C
±20	±10	±10

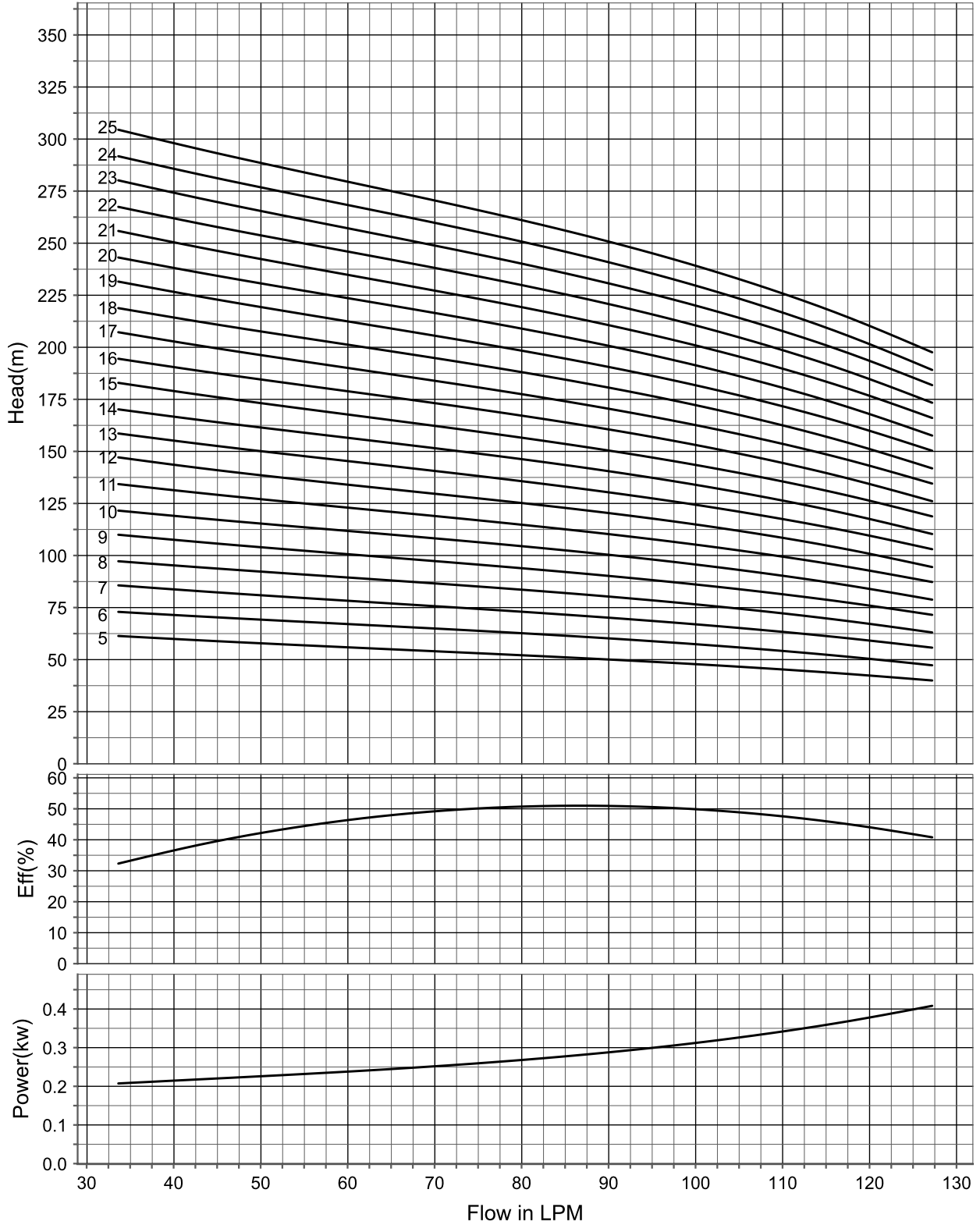
**GA Drawing Dimension • Model: R-61**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-61	4.0	6	611	510	1121	142	138	19	41	60
R-61	5.0	8	631	586	1217	142	138	22	44	66
R-61	5.0	10	631	817	1448	142	138	31	44	75
R-61	7.5	12	696	893	1589	142	138	34	50	84
R-61	7.5	14	696	1007	1703	142	138	37	50	87
R-61	10.0	15	751	1045	1796	142	138	40	57	97
R-61	10.0	16	751	1083	1834	142	138	52	57	109
R-61	10.0	18	751	1197	1948	142	138	45	57	102
R-61	10.0	20	751	1273	2024	142	138	50	57	107
R-61	10.0	22	751	1387	2138	142	138	53	57	110
R-61	12.5	25	806	1539	2345	142	138	60	65	125



**Performance Curves • Model: R-61**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 50 mm • Max OD: 142 mm • Min Bore: 150 mm

### Performance Chart • Model: R-62

Outlet Size 2" (50 mm)

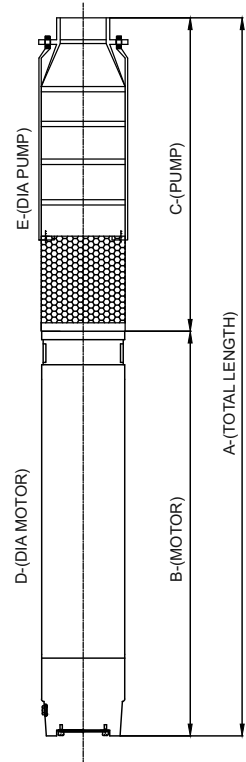
		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	36	90	120	138	156	168	192
7	5.0		86	81	76	71	66	60	50
9	7.5		111	104	98	91	85	78	65
12	10.0		147	138	130	121	112	104	86
13	10.0		160	150	141	131	122	112	94
14	12.5		171	161	151	141	131	121	101
16	12.5		196	184	173	161	150	138	115
17	17.5		209	196	184	171	160	147	122
18	17.5		220	207	194	181	168	156	130
20	17.5		245	230	216	202	187	173	144
22	17.5		269	253	238	222	206	190	158
25	17.5		307	288	271	252	235	216	180

All Dimension are in mm

A	B	C
±20	±10	±10

### GA Drawing Dimension • Model: R-62

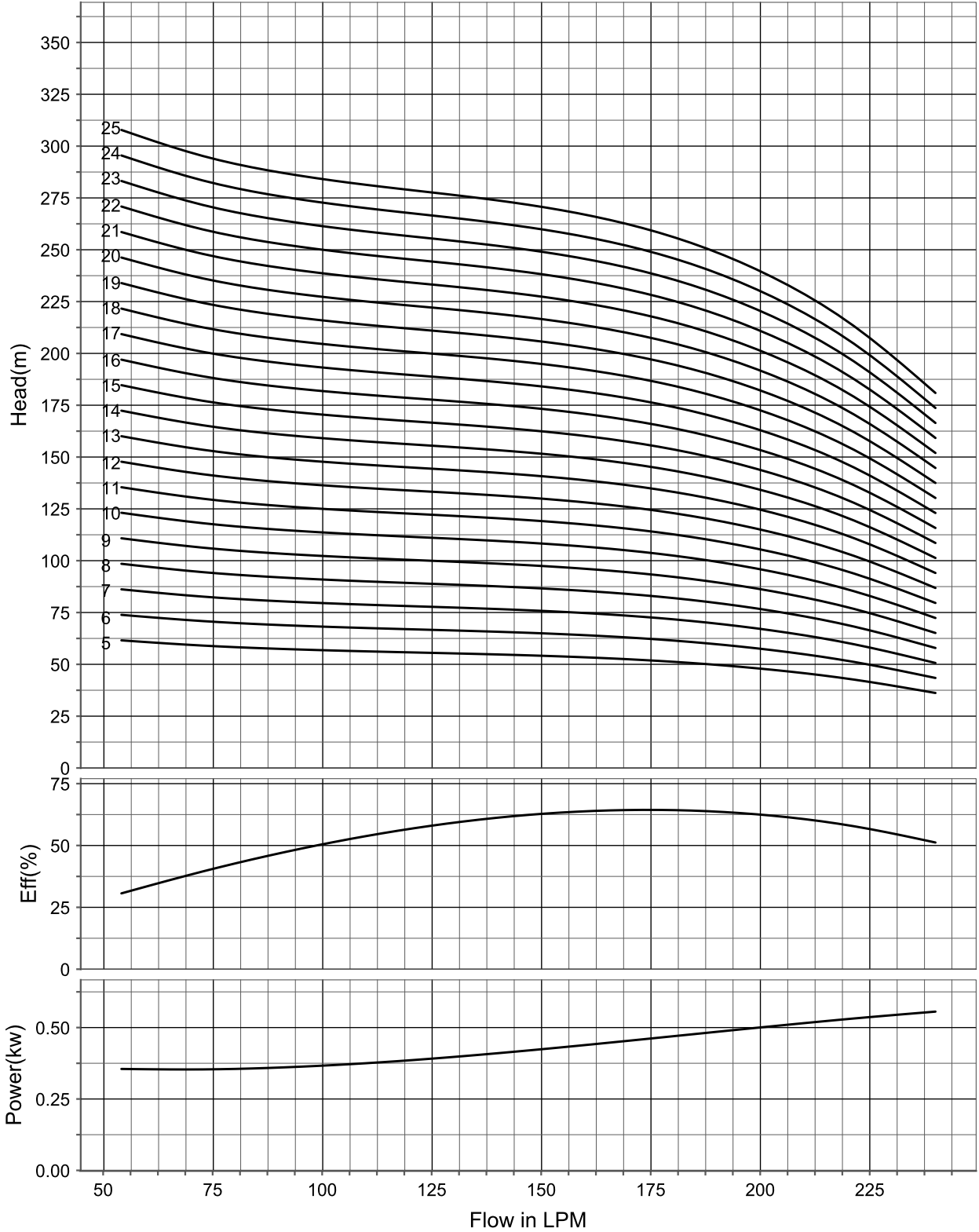
Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-62	5.0	7	631	548	1179	142	138	20	44	64
R-62	7.5	9	696	779	1475	142	138	29	50	79
R-62	10.0	12	751	893	1644	142	138	34	57	91
R-62	10.0	13	751	969	1720	142	138	37	57	94
R-62	12.5	14	806	1007	1813	142	138	39	65	104
R-62	12.5	16	806	1083	1889	142	138	42	65	107
R-62	17.5	17	876	678	1554	142	138	45	71	116
R-62	17.5	18	876	1197	2073	142	138	47	71	118
R-62	17.5	20	876	1273	2149	142	138	50	71	121
R-62	17.5	22	876	1387	2263	142	138	54	71	125
R-62	17.5	25	876	1539	2415	142	138	60	71	131





**Performance Curves • Model: R-62**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 50 mm • Max OD: 142 mm • Min Bore: 150 mm

**Performance Chart • Model: R-62 KS**

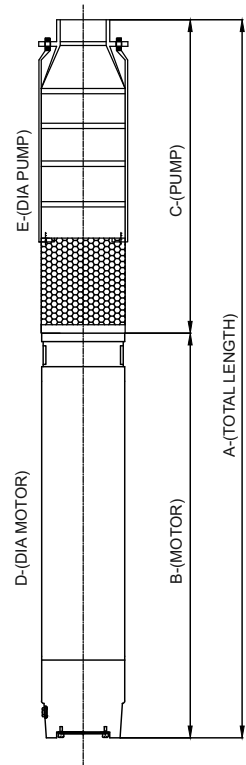
Outlet Size 2" (50 mm)

		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	72	144	180	204	240	288	324
6	5.0		78	75	66	60	46	32	24
8	7.5		104	101	89	81	60	43	36
9	7.5		117	114	101	91	68	49	42
10	10.0		130	127	111	101	76	55	48
12	10.0		156	151	132	121	91	66	59
13	10.0		168	164	144	131	98	72	65
15	12.5		194	189	167	151	112	84	76
16	12.5		207	202	179	161	118	89	82
18	17.5		233	228	200	181	131	101	94
20	17.5		259	252	222	202	147	112	105
22	17.5		285	278	245	222	167	124	117
25	22.5	324	317	279	252	193	141	134	

All Dimension are in mm		
<b>A</b>	<b>B</b>	<b>C</b>
±20	±10	±10

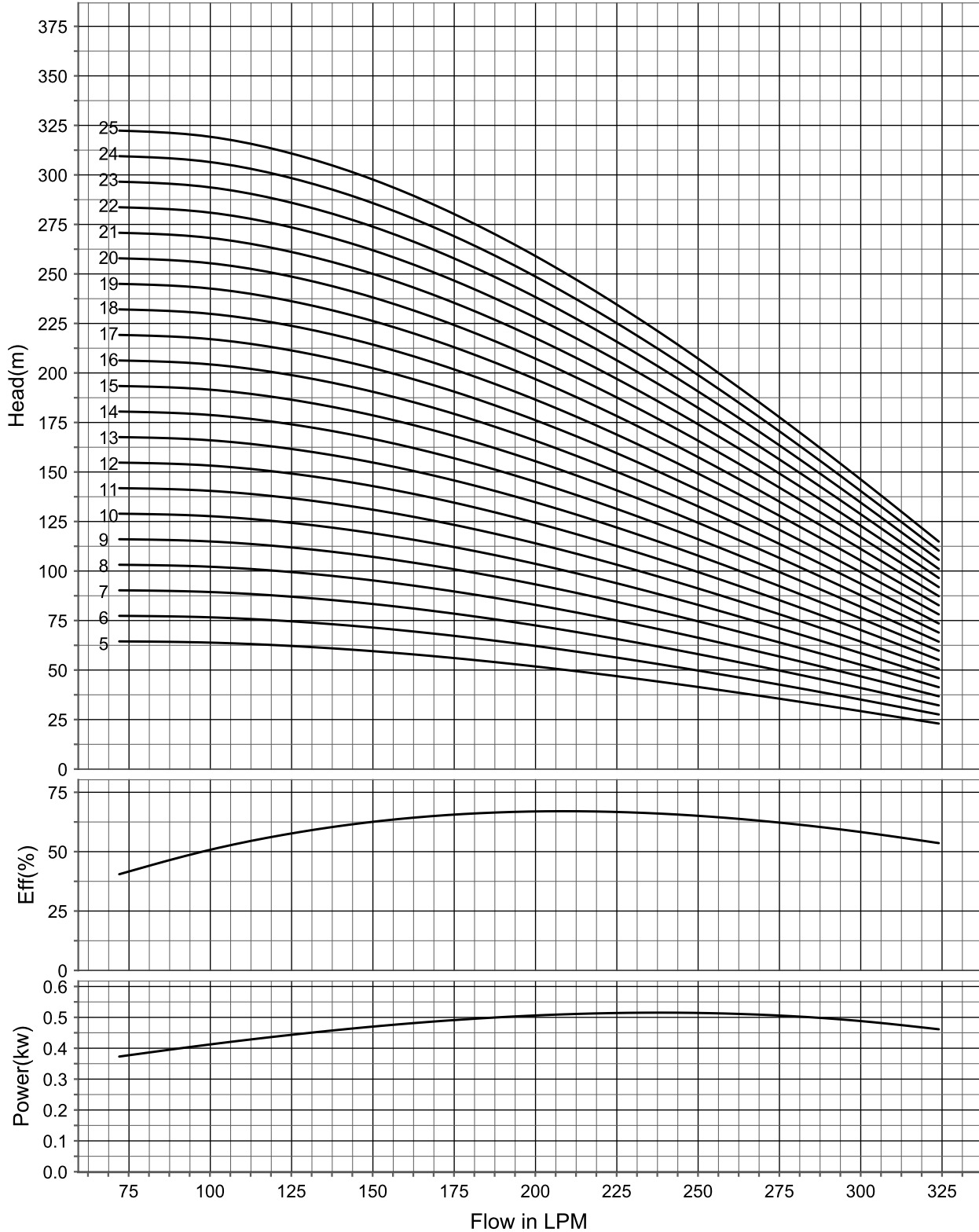
**GA Drawing Dimension • Model: R-62 KS**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-62 KS	5.0	6	631	510	1141	142	138	19	44	63
R-62 KS	7.5	8	696	586	1282	142	138	22	50	72
R-62 KS	7.5	9	696	779	1475	142	138	29	50	79
R-62 KS	10.0	10	751	817	1568	142	138	31	57	88
R-62 KS	10.0	12	751	893	1644	142	138	34	57	91
R-62 KS	10.0	13	751	969	1720	142	138	37	57	94
R-62 KS	12.5	15	806	1045	1851	142	138	40	65	105
R-62 KS	12.5	16	806	1083	1889	142	138	42	65	107
R-62 KS	17.5	18	876	1197	2073	142	138	47	71	118
R-62 KS	17.5	20	876	1273	2149	142	138	50	71	121
R-62 KS	17.5	22	876	1387	2263	142	138	53	71	124
R-62 KS	22.5	25	996	1539	2535	142	138	60	79	139



**Performance Curves • Model: R-62 KS**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 50 mm • Max OD: 142 mm • Min Bore: 150 mm

**Performance Chart • Model: R-62K**

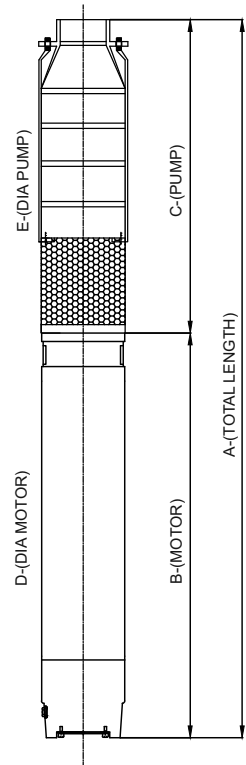
Outlet Size 2.5" (65 mm)

		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	72	144	180	204	240	288	324
6	5.0		78	75	66	60	46	32	24
8	7.5		104	101	89	81	60	43	36
9	7.5		117	114	101	91	68	49	42
10	10.0		130	127	111	101	76	55	48
12	10.0		156	151	132	121	91	66	59
13	10.0		168	164	144	131	98	72	65
15	12.5		194	189	167	151	112	84	76
16	12.5		207	202	179	161	118	89	82
18	17.5		233	228	200	181	131	101	94
20	17.5		259	252	222	202	147	112	105
22	17.5		285	278	245	222	167	124	117
25	22.5		324	317	279	252	193	141	134

All Dimension are in mm		
<b>A</b>	<b>B</b>	<b>C</b>
±20	±10	±10

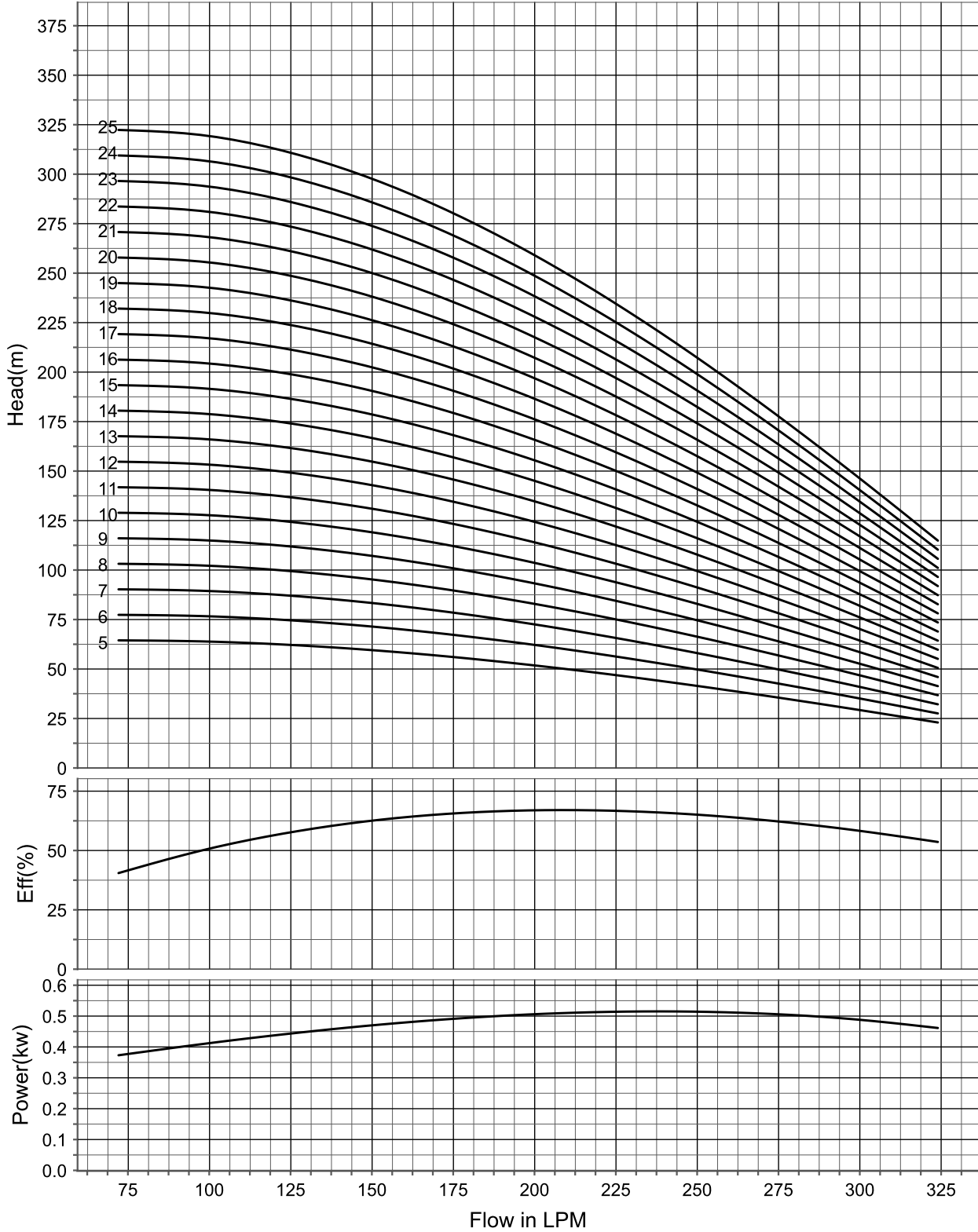
**GA Drawing Dimension • Model: R-62K**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-62K	5.0	6	631	549	1180	142	141	21	44	65
R-62K	7.5	8	696	639	1335	142	141	25	50	75
R-62K	7.5	9	696	801	1497	142	141	31	50	81
R-62K	10.0	10	751	846	1597	142	141	33	57	90
R-62K	10.0	12	751	936	1687	142	141	37	57	94
R-62K	10.0	13	751	981	1732	142	141	39	57	96
R-62K	12.5	15	806	1071	1877	142	141	43	65	108
R-62K	12.5	16	806	1116	1922	142	141	46	65	111
R-62K	17.5	18	876	1206	2082	142	141	50	71	121
R-62K	17.5	20	876	1296	2172	142	141	54	71	125
R-62K	17.5	22	876	1386	2262	142	141	58	71	129
R-62K	22.5	25	996	1521	2517	142	141	65	79	144



**Performance Curves • Model: R-62K**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

**Performance Chart • Model: R-63**

Outlet Size 2" (50 mm)

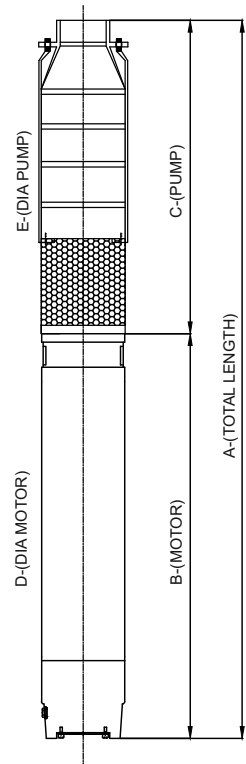
		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	120	156	180	216	252	276	300
6	7.5		86	82	78	69	60	52	48
8	10.0		115	109	104	92	81	69	63
10	10.0		144	137	130	115	101	86	79
12	12.5		173	164	156	138	121	104	95
13	12.5		187	179	168	150	131	112	104
15	17.5		216	206	194	173	151	130	120
16	17.5		230	219	207	184	161	138	127
17	17.5		245	233	220	196	171	147	135
18	22.5		259	246	233	207	181	156	143
20	25.0		288	274	259	230	202	173	158
22	25.0		317	301	285	253	222	190	174
25	25.0	360	343	324	288	252	216	199	

All Dimension are in mm

A	B	C
±20	±10	±10

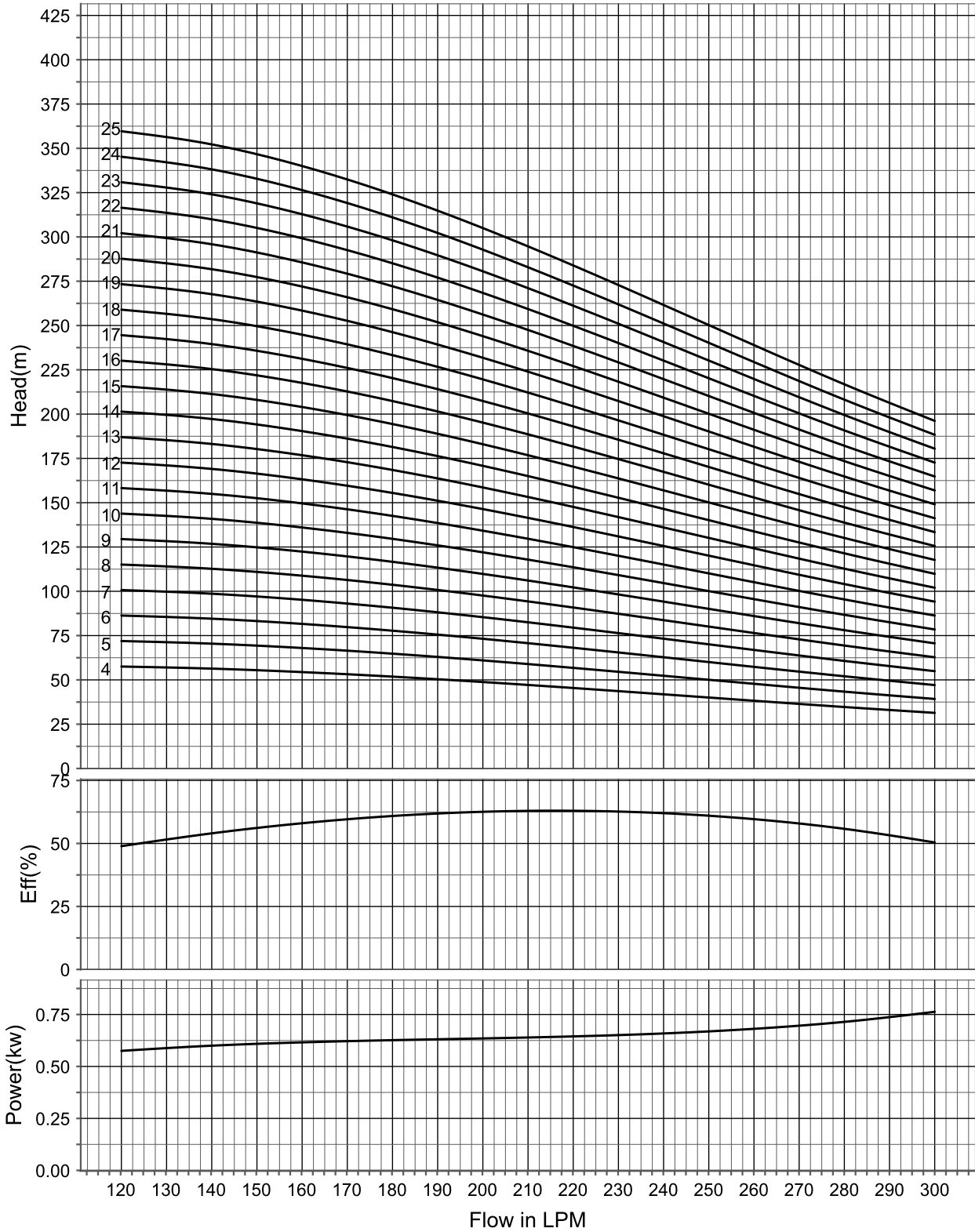
**GA Drawing Dimension • Model: R-63**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-63	7.5	6	696	510	1206	142	138	19	50	69
R-63	10.0	8	751	586	1337	142	138	22	57	79
R-63	10.0	10	751	817	1568	142	138	31	57	88
R-63	12.5	12	806	893	1699	142	138	34	65	99
R-63	12.5	13	806	969	1775	142	138	37	65	102
R-63	17.5	15	876	1045	1921	142	138	40	71	111
R-63	17.5	16	876	1083	1959	142	138	42	71	113
R-63	17.5	17	876	678	1554	142	138	45	71	116
R-63	22.5	18	996	1197	2193	142	138	46	79	125
R-63	25.0	20	996	1273	2269	142	138	49	85	134
R-63	25.0	22	996	1387	2383	142	138	52	85	137
R-63	25.0	25	996	1539	2535	142	138	56	85	141



**Performance Curves • Model: R-63**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 50 mm • Max OD: 142 mm • Min Bore: 150 mm



**Performance Chart • Model: R-63 KS**

Outlet Size 2" (50 mm)

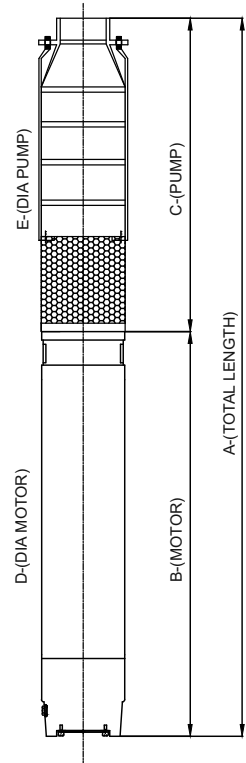
		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	60	108	156	204	264	330	360
4	5.0		60	58	55	52	46	40	29
5	7.5		76	72	69	65	58	50	36
6	10.0		91	86	82	78	69	60	43
8	10.0		121	115	109	104	92	81	58
10	12.5		151	144	137	130	115	101	72
12	17.5		181	173	164	156	138	121	86
13	17.5		197	187	179	168	150	131	94
15	22.5		228	216	206	194	173	151	108
16	22.5		242	230	219	207	184	161	115
18	25.0		272	259	246	233	207	181	130
20	25.0		302	288	274	259	230	202	144
22	30.0		333	317	301	285	253	222	158

All Dimension are in mm

A	B	C
±20	±10	±10

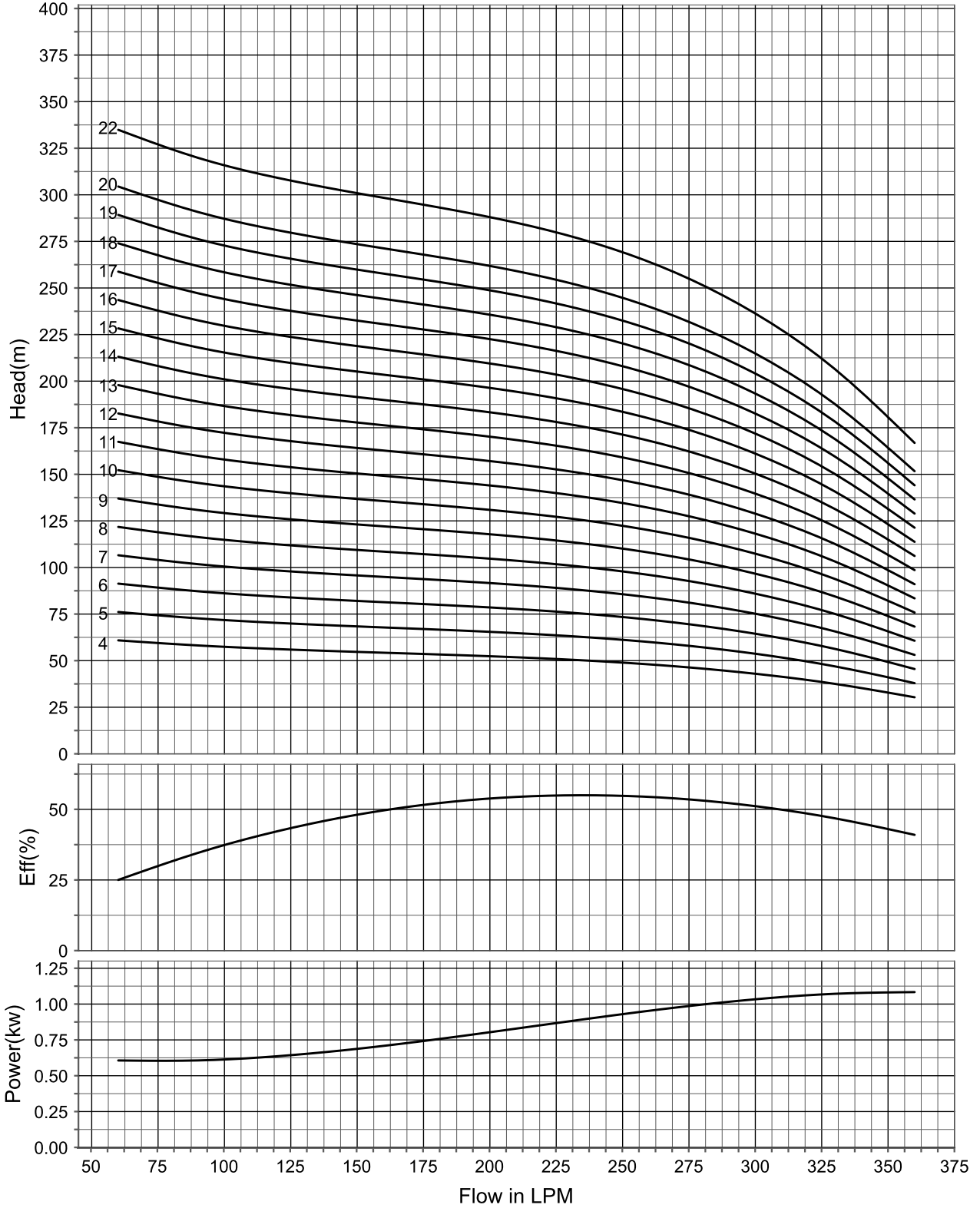
**GA Drawing Dimension • Model: R-63 KS**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-63 KS	5.0	4	631	434	1065	142	138	16	44	60
R63KS	7.5	5	696	472	1168	142	138	17	50	67
R63KS	10.0	6	751	510	1261	142	138	19	57	76
R63KS	10.0	8	751	586	1337	142	138	22	57	79
R63KS	12.5	10	806	817	1623	142	138	31	65	96
R63KS	17.5	12	876	893	1769	142	138	34	71	105
R63KS	17.5	13	876	969	1845	142	138	37	71	108
R63KS	22.5	15	996	1045	2041	142	138	40	79	119
R63KS	22.5	16	996	1083	2079	142	138	42	79	121
R63KS	25.0	18	996	1197	2193	142	138	47	85	132
R63KS	25.0	20	996	1273	2269	142	138	50	85	135
R63KS	30.0	22	1076	1387	2463	142	138	53	100	153



**Performance Curves • Model: R-63 KS**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 50 mm • Max OD: 142 mm • Min Bore: 150 mm

**Performance Chart • Model: R-63 K**

Outlet Size 2.5" (65 mm)

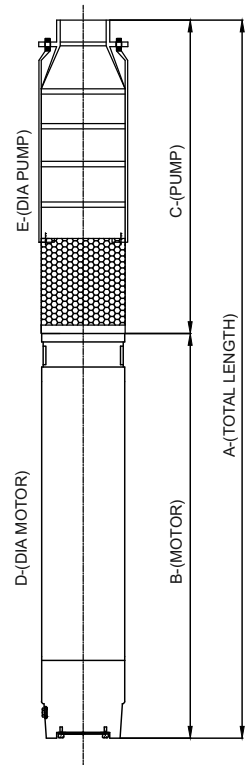
		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	60	108	156	204	264	330	360
4	5.0		60	58	55	52	46	40	29
5	7.5		76	72	69	65	58	50	36
6	10.0		91	86	82	78	69	60	43
8	10.0		121	115	109	104	92	81	58
10	12.5		151	144	137	130	115	101	72
12	17.5		181	173	164	156	138	121	86
13	17.5		197	187	179	168	150	131	94
15	22.5		228	216	206	194	173	151	108
16	22.5		242	230	219	207	184	161	115
18	25.0		272	259	246	233	207	181	130
20	25.0		302	288	274	259	230	202	144
22	30.0	333	317	301	285	253	222	158	

All Dimension are in mm

A	B	C
±20	±10	±10

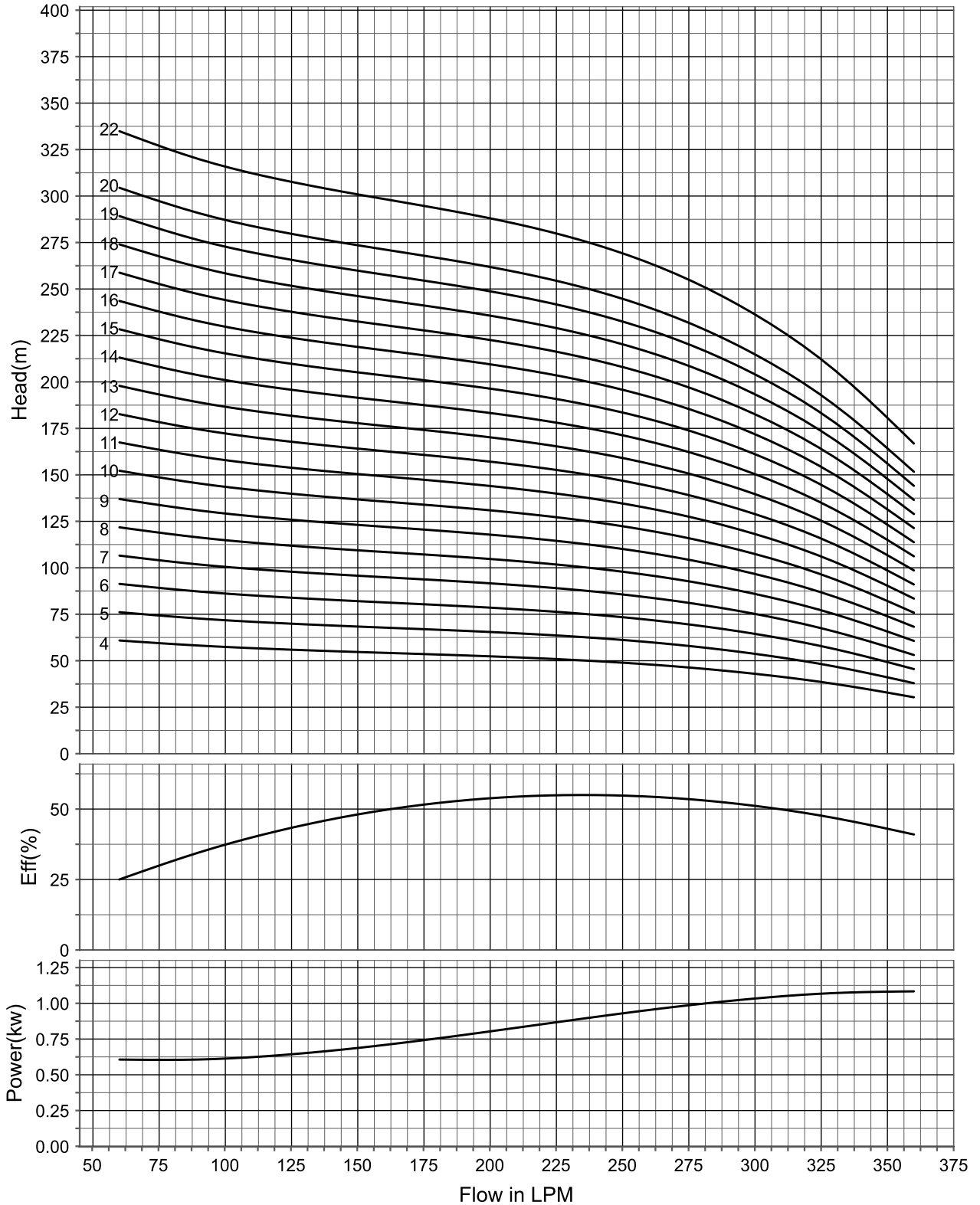
**GA Drawing Dimension • Model: R-63 K**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-63K	5.0	4	631	459	1090	142	141	21	44	65
R-63K	7.5	6	696	549	1245	142	141	21	50	71
R-63K	10.0	8	751	639	1390	142	141	23	57	80
R-63K	10.0	10	751	846	1597	142	141	33	57	90
R-63K	12.5	12	806	936	1742	142	141	37	65	102
R-63K	17.5	13	876	981	1857	142	141	39	71	110
R-63K	17.5	15	876	1071	1947	142	141	43	71	114
R-63K	22.5	16	996	1116	2112	142	141	46	79	125
R-63K	22.5	18	996	1206	2202	142	141	50	79	129
R-63K	25.0	20	996	1296	2292	142	141	54	85	139
R-63K	25.0	22	996	1386	2382	142	141	58	85	143
R-63K	30.0	24	1076	1476	2552	142	141	63	100	163



**Performance Curves • Model: R-63 K**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

**Performance Chart • Model: R-65 K**

Outlet Size 2.5" (65 mm)

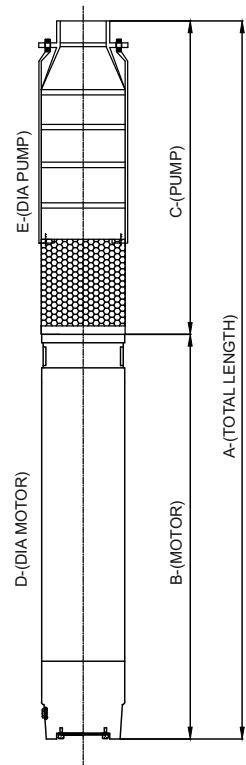
		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	132	222	276	318	360	384	432
3	5.0		46	43	42	39	37	35	30
4	7.5		60	58	55	52	49	46	40
5	10.0		76	72	69	65	62	58	50
6	10.0		91	86	82	78	73	69	60
7	12.5		107	101	96	91	86	81	71
8	12.5		121	115	109	104	98	92	81
10	17.5		151	144	137	130	122	115	101
12	22.5		181	173	164	156	147	138	121
13	22.5		194	184	176	166	157	147	128
14	25.0		212	202	192	181	171	161	141
15	25.0		228	216	206	194	184	173	151
16	30.0		242	230	219	207	196	184	161
17	30.0		258	245	233	220	209	196	171

All Dimension are in mm

A	B	C
±20	±10	±10

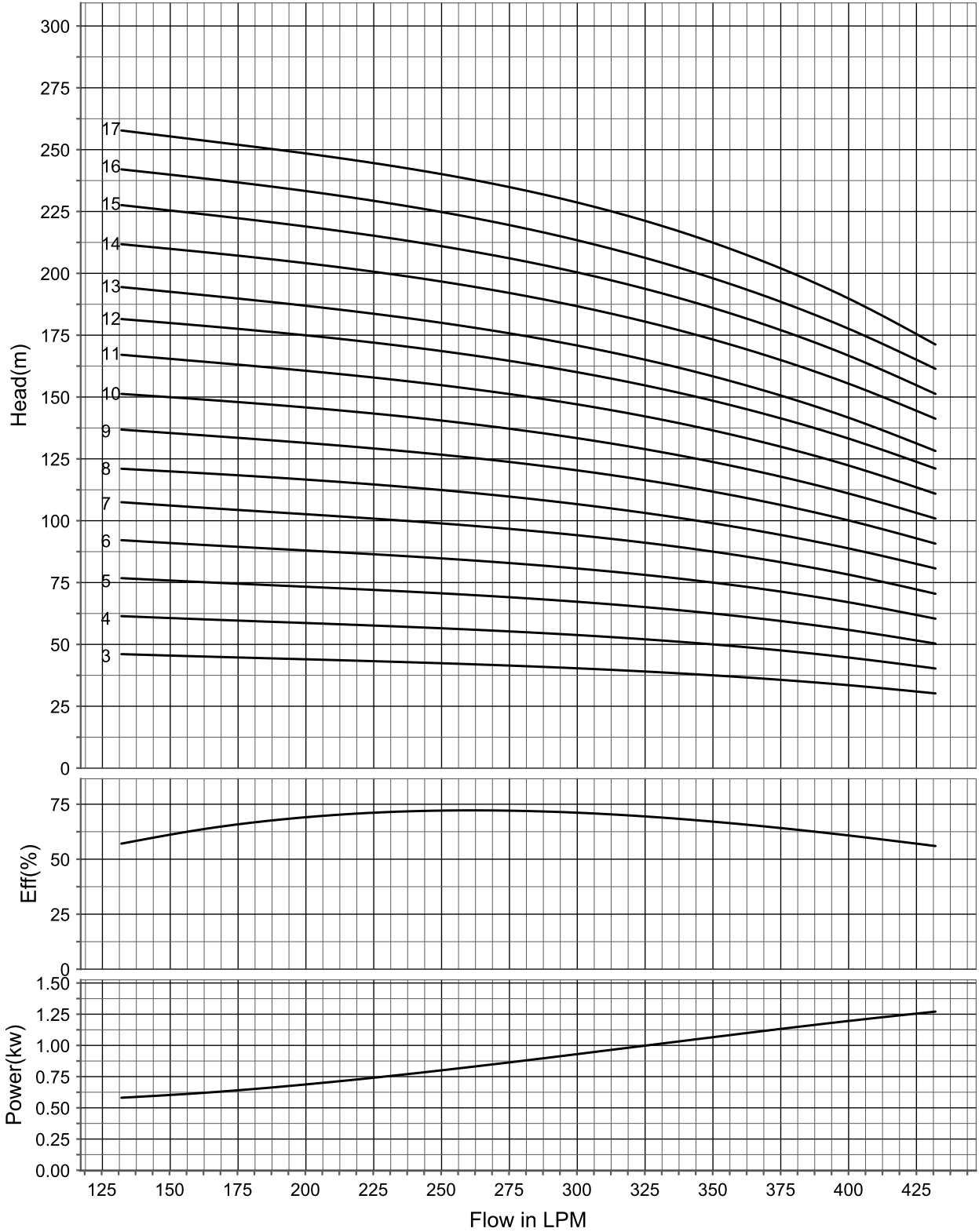
**GA Drawing Dimension • Model: R-65 K**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-65K	5.0	3	631	414	1045	142	141	17	44	61
R-65K	7.5	4	696	459	1155	142	141	19	50	69
R-65K	10.0	6	751	549	1300	142	141	21	57	78
R-65K	10.0	7	751	594	1345	142	141	23	57	80
R-65K	12.5	8	806	639	1445	142	141	25	65	90
R-65K	12.5	10	806	846	1652	142	141	33	65	98
R-65K	17.5	12	876	936	1812	142	141	37	71	108
R-65K	22.5	13	996	981	1977	142	141	39	79	118
R-65K	22.5	14	996	1026	2022	142	141	41	79	120
R-65K	25.0	15	996	1071	2067	142	141	44	85	128
R-65K	25.0	16	996	1116	2112	142	141	46	85	131
R-65K	30.0	17	1076	1161	2237	142	141	48	100	148
R-65K	30.0	20	1076	1296	2372	142	141	54	100	154



**Performance Curves • Model: R-65K**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

**Performance Chart • Model: R-65**

Outlet Size 2.5" (65 mm)

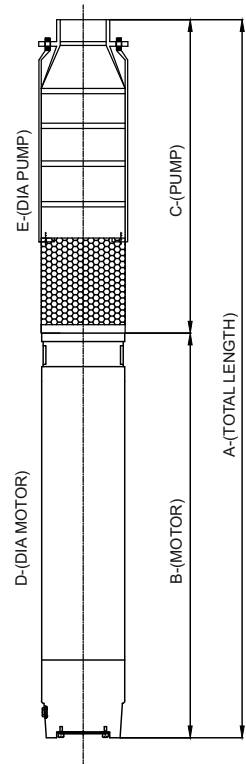
		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	180	264	330	360	432	474	522
3	7.5		50	48	46	43	39	35	30
4	10.0		66	63	60	58	52	46	40
5	10.0		84	79	76	72	65	58	50
6	12.5		99	95	91	86	78	69	60
7	17.5		117	111	107	101	91	81	71
8	17.5		132	127	121	115	104	92	81
9	17.5		150	143	137	130	117	104	91
10	22.5		166	158	151	144	130	115	101
11	22.5		183	174	167	158	143	127	111
12	25.0		199	190	181	173	156	138	121
13	25.0		216	206	197	187	168	150	131
14	30.0		232	222	212	202	181	161	141
15	30.0		249	238	228	216	194	173	151

All Dimension are in mm

A	B	C
±20	±10	±10

**GA Drawing Dimension • Model: R-65**

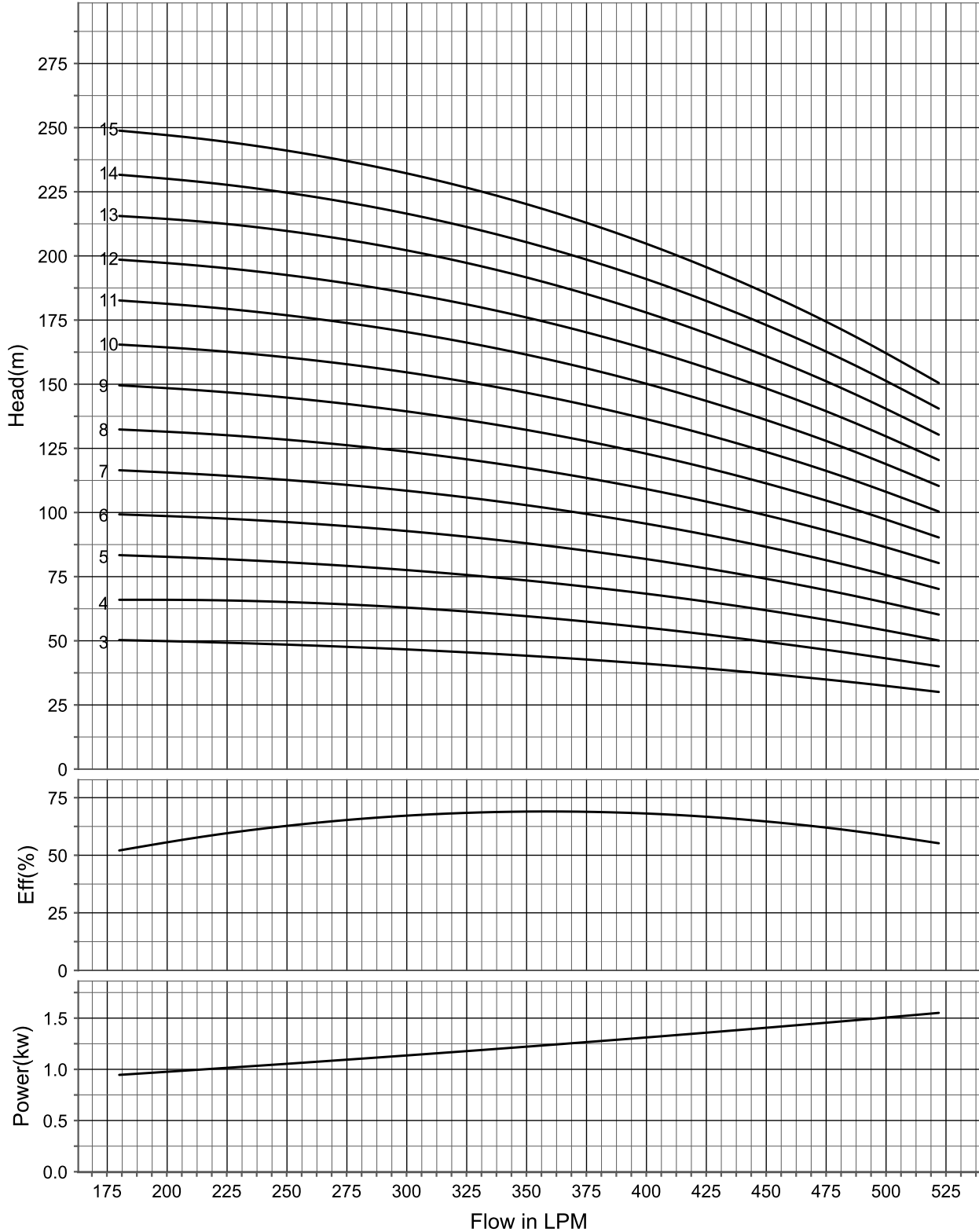
Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-65	7.5	3	696	414	1110	142	141	15	50	65
R-65	10.0	4	751	459	1210	142	141	17	57	74
R-65	10.0	5	751	504	1255	142	141	19	57	75
R-65	12.5	6	806	549	1355	142	141	21	65	86
R-65	17.5	7	876	594	1470	142	141	23	71	94
R-65	17.5	8	876	639	1515	142	141	25	71	96
R-65	17.5	9	876	801	1677	142	141	31	71	102
R-65	22.5	10	996	846	1842	142	141	33	79	112
R-65	22.5	11	996	891	1887	142	141	35	79	114
R-65	25.0	12	996	936	1932	142	141	37	85	122
R-65	25.0	13	996	981	1977	142	141	39	85	124
R-65	30.0	14	1076	1026	2102	142	141	41	100	141
R-65	30.0	15	1076	1071	2147	142	141	44	100	144





**Performance Curves • Model: R-65**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

### Performance Chart • Model: M-60

Outlet Size 2.5" (65 mm)

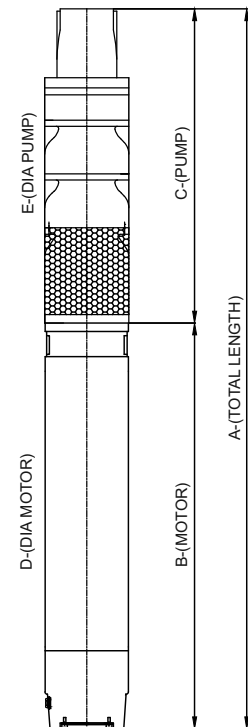
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			240	300	360	480	600	720	840
3	5.0		37	36	35	32	26	19	10
4	7.5		49	48	46	42	35	26	14
5	10.0		62	60	58	52	43	32	17
6	10.0		75	73	69	62	52	37	20
7	12.5		86	85	81	72	60	45	24
8	12.5		99	98	92	84	69	50	27
9	17.5		111	109	104	94	78	58	32
10	17.5		124	121	115	104	86	63	35
11	22.5		137	132	127	114	95	69	37
12	22.5		148	145	138	124	104	76	42
13	22.5		161	157	150	135	112	82	45
14	25.0		173	171	161	145	121	89	49
15	25.0		186	181	173	156	130	95	52
16	25.0		199	193	184	166	138	101	55
17	30.0		210	206	196	176	147	108	59
18	30.0		223	217	207	187	156	114	62

All Dimension are in mm

A	B	C
±20	±10	±10

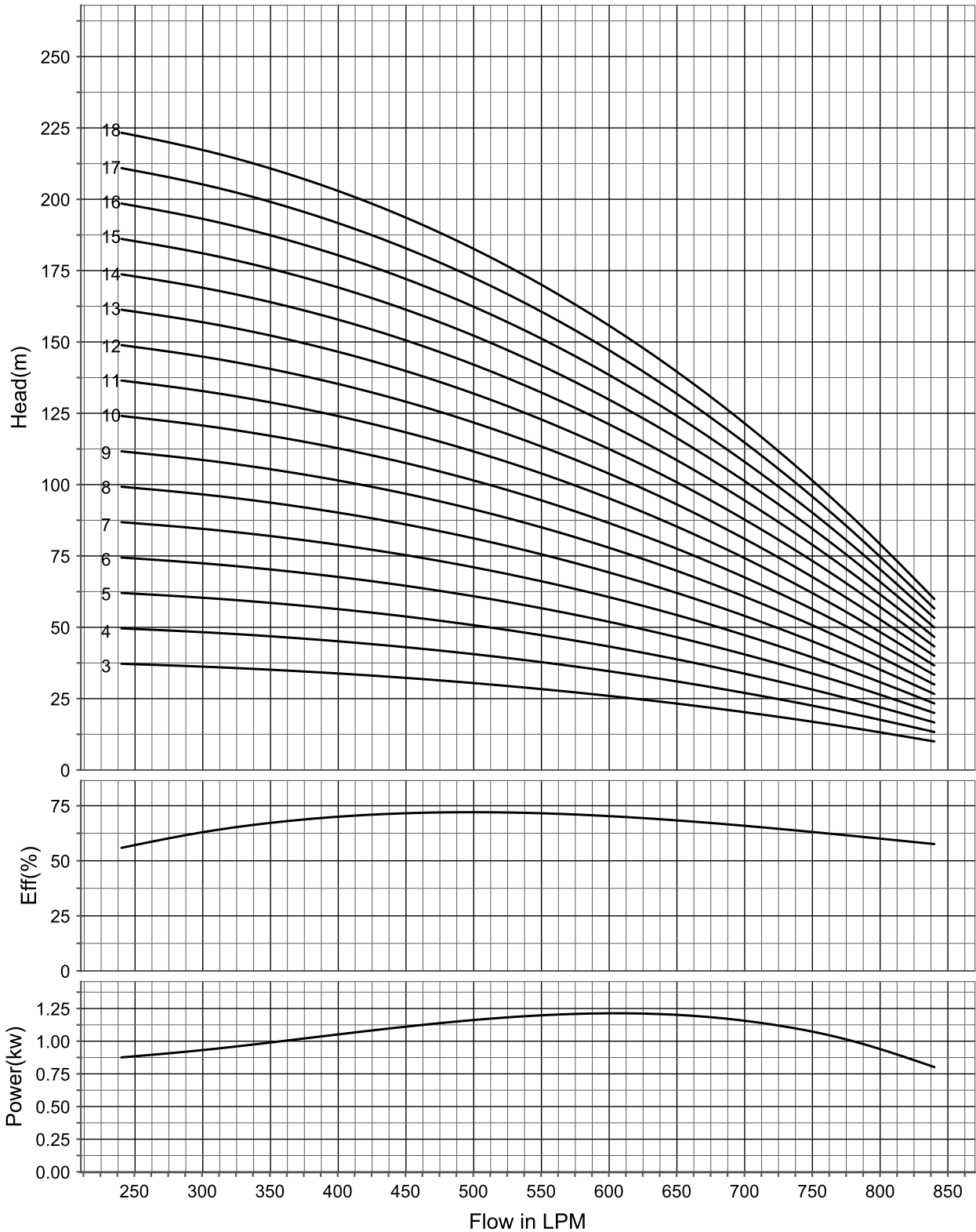
### GA Drawing Dimension • Model: M-60

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-60	5.0	3	631	565	1196	142	138	23	44	67
M-60	7.5	4	696	655	1351	142	138	27	50	77
M-60	10.0	5	751	745	1496	142	138	30	57	87
M-60	10.0	6	751	835	1586	142	138	34	57	91
M-60	12.5	7	806	925	1731	142	138	38	65	103
M-60	12.5	8	806	1070	1876	142	138	48	65	113
M-60	17.5	9	876	1160	2036	142	138	52	71	123
M-60	17.5	10	876	1250	2126	142	138	56	71	127
M-60	22.5	11	996	1340	2336	142	138	61	79	140
M-60	22.5	12	996	1430	2426	142	138	65	79	144
M-60	22.5	13	996	1520	2516	142	138	69	79	148
M-60	25.0	14	996	1610	2606	142	138	74	85	159
M-60	25.0	15	996	1700	2696	142	138	78	85	163
M-60	25.0	16	996	1790	2786	142	138	82	85	167
M-60	30.0	17	1076	1880	2956	142	138	87	100	187
M-60	30.0	18	1076	1970	3046	142	138	91	100	191



**Performance Curves • Model: M-60**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

**Performance Chart • Model: M-61**

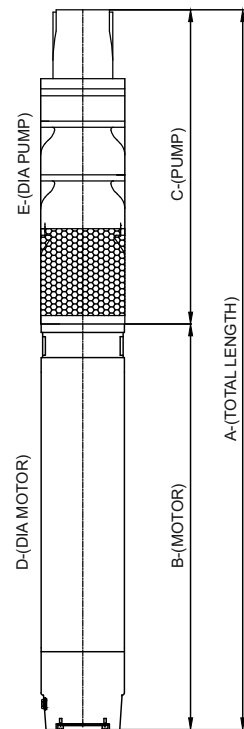
Outlet Size 2.5" (65 mm)

STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			300	360	480	600	720	840	960
3	7.5		39	36	35	32	29	22	14
4	10.0		52	49	46	43	37	29	20
5	10.0		63	62	58	53	46	36	24
6	12.5		76	75	71	65	56	45	30
7	17.5		89	86	82	75	65	52	35
8	17.5		102	99	94	86	75	59	39
9	22.5		115	111	105	96	84	66	43
10	22.5		128	124	117	107	94	73	49
11	25.0		141	137	128	118	102	81	55
12	25.0		153	148	140	128	111	88	59
13	25.0		166	161	151	140	121	95	63
14	30.0		179	173	163	150	130	102	69
15	30.0		192	186	174	161	140	109	73

All Dimension are in mm		
<b>A</b>	<b>B</b>	<b>C</b>
±20	±10	±10

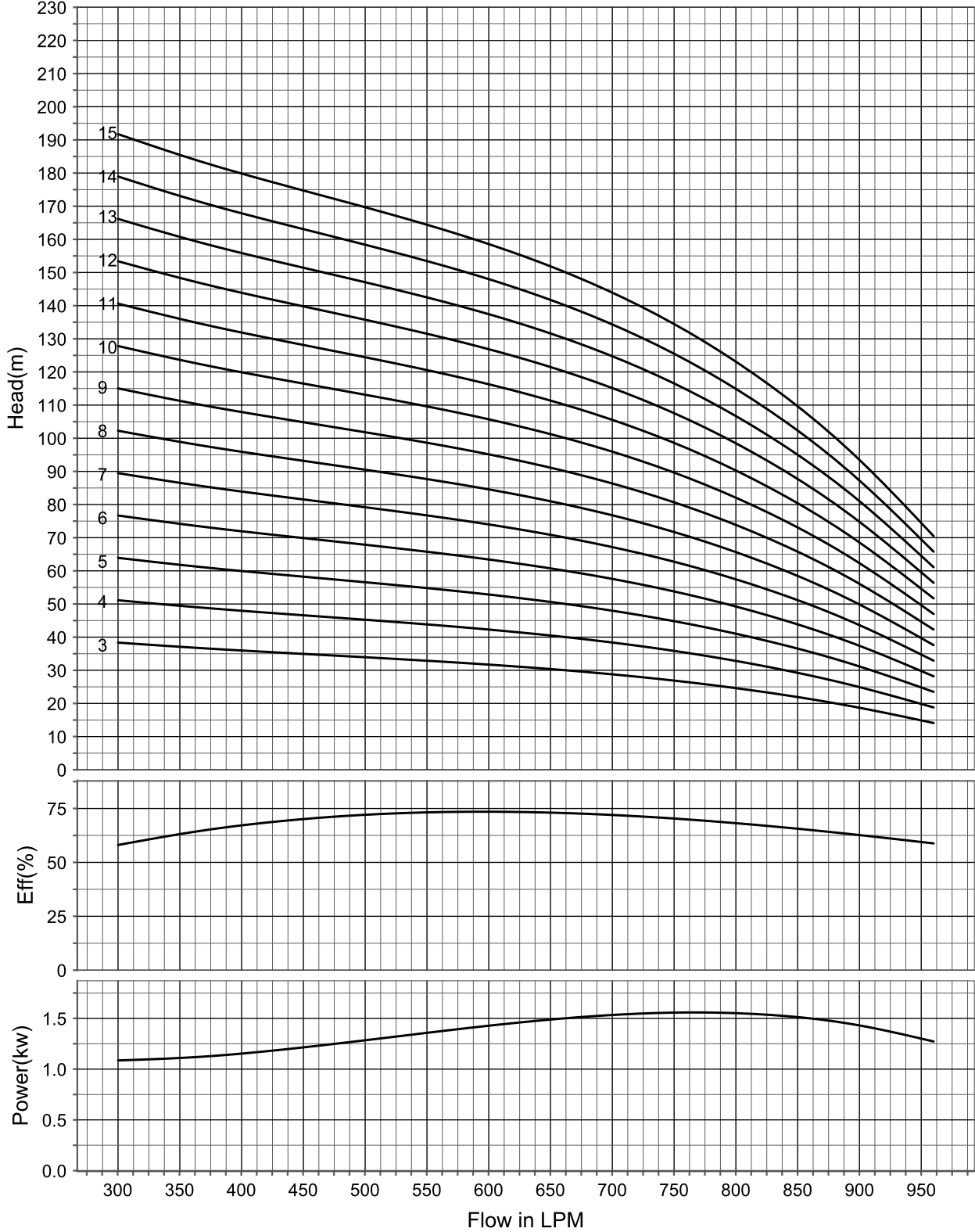
**GA Drawing Dimension • Model: M-61**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-61	7.5	3	696	565	1261	142	138	23	50	73
M-61	10.0	4	751	655	1406	142	138	27	57	84
M-61	10.0	5	751	745	1496	142	138	31	57	88
M-61	12.5	6	806	835	1641	142	138	34	65	99
M-61	17.5	7	876	925	1801	142	138	38	71	109
M-61	17.5	8	876	1070	1946	142	138	48	71	119
M-61	22.5	9	996	1160	2156	142	138	52	79	131
M-61	22.5	10	996	1250	2246	142	138	56	79	135
M-61	25.0	11	996	1340	2336	142	138	61	85	146
M-61	25.0	12	996	1430	2426	142	138	65	85	150
M-61	25.0	13	996	1520	2516	142	138	70	85	155
M-61	30.0	14	1076	1610	2686	142	138	74	100	174
M-61	30.0	15	1076	1700	2776	142	138	78	100	178



**Performance Curves • Model: M-61**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

**Performance Chart • Model: M-62**

Outlet Size 2.5" (65 mm)

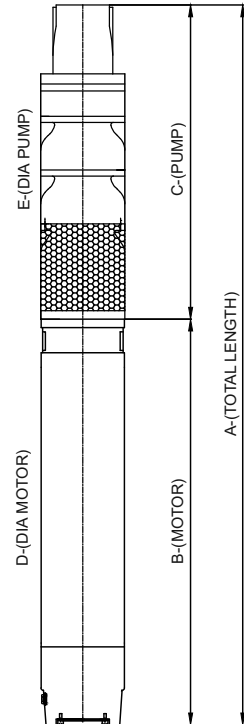
		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	360	480	600	720	840	960	1080
3	10.0		40	37	35	29	24	19	13
4	10.0		55	50	46	39	33	26	17
5	12.5		68	63	58	49	42	32	20
6	17.5		95	89	79	69	58	45	29
8	22.5		109	101	91	79	66	50	33
9	25.0		122	114	102	89	73	58	37
10	25.0		135	127	114	98	82	63	42
11	25.0		150	140	125	108	91	71	46
12	30.0		163	151	137	118	98	76	50

All Dimension are in mm

A	B	C
±20	±10	±10

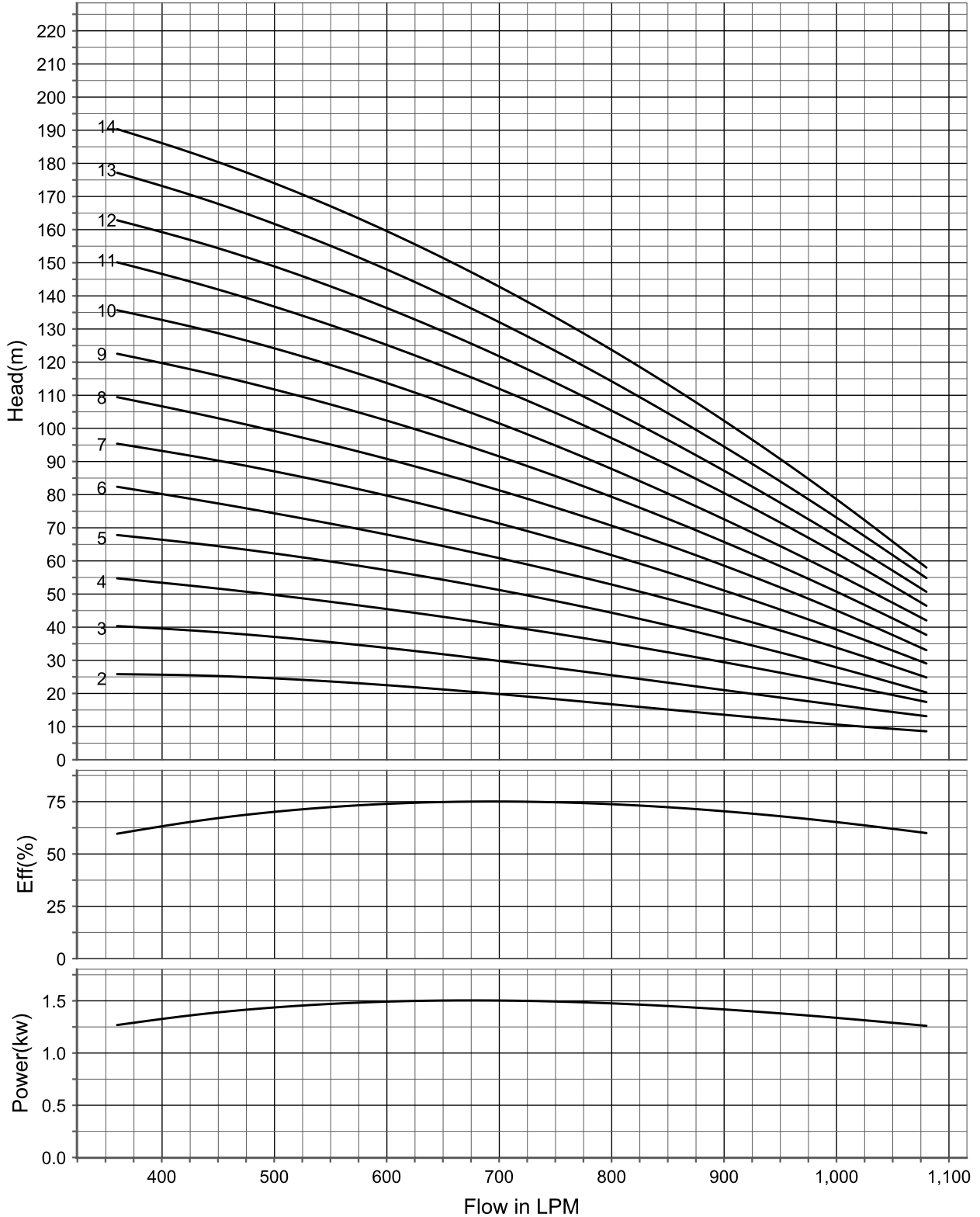
**GA Drawing Dimension • Model: M-62**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-62	10.0	3	751	565	1316	142	138	23	57	80
M-62	10.0	4	751	655	1406	142	138	27	57	84
M-62	12.5	5	806	745	1551	142	138	31	65	96
M-62	17.5	6	876	835	1711	142	138	35	71	106
M-62	22.5	7	996	1070	2066	142	138	39	79	118
M-62	25.0	8	996	1160	2156	142	138	48	85	133
M-62	25.0	9	996	1250	2246	142	138	52	85	137
M-62	25.0	10	996	1340	2336	142	138	57	85	142
M-62	30.0	11	1076	1430	2506	142	138	61	100	161



**Performance Curves • Model: M-62**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm



### Performance Chart • Model: M-63

Outlet Size 3" (75 mm)

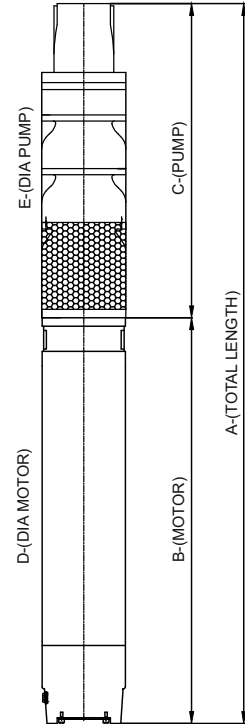
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			624	720	816	900	960	1020	1080
3	10.0		37	35	33	30	29	24	22
4	12.5		49	46	43	40	37	32	29
5	17.5		62	58	55	50	48	40	36
6	17.5		73	69	65	60	56	48	43
7	22.5		86	81	76	71	66	56	50
8	25.0		98	92	86	81	75	63	58
9	25.0		111	104	98	91	85	72	65
10	30.0		122	115	108	101	94	79	72

All Dimension are in mm

A	B	C
±20	±10	±10

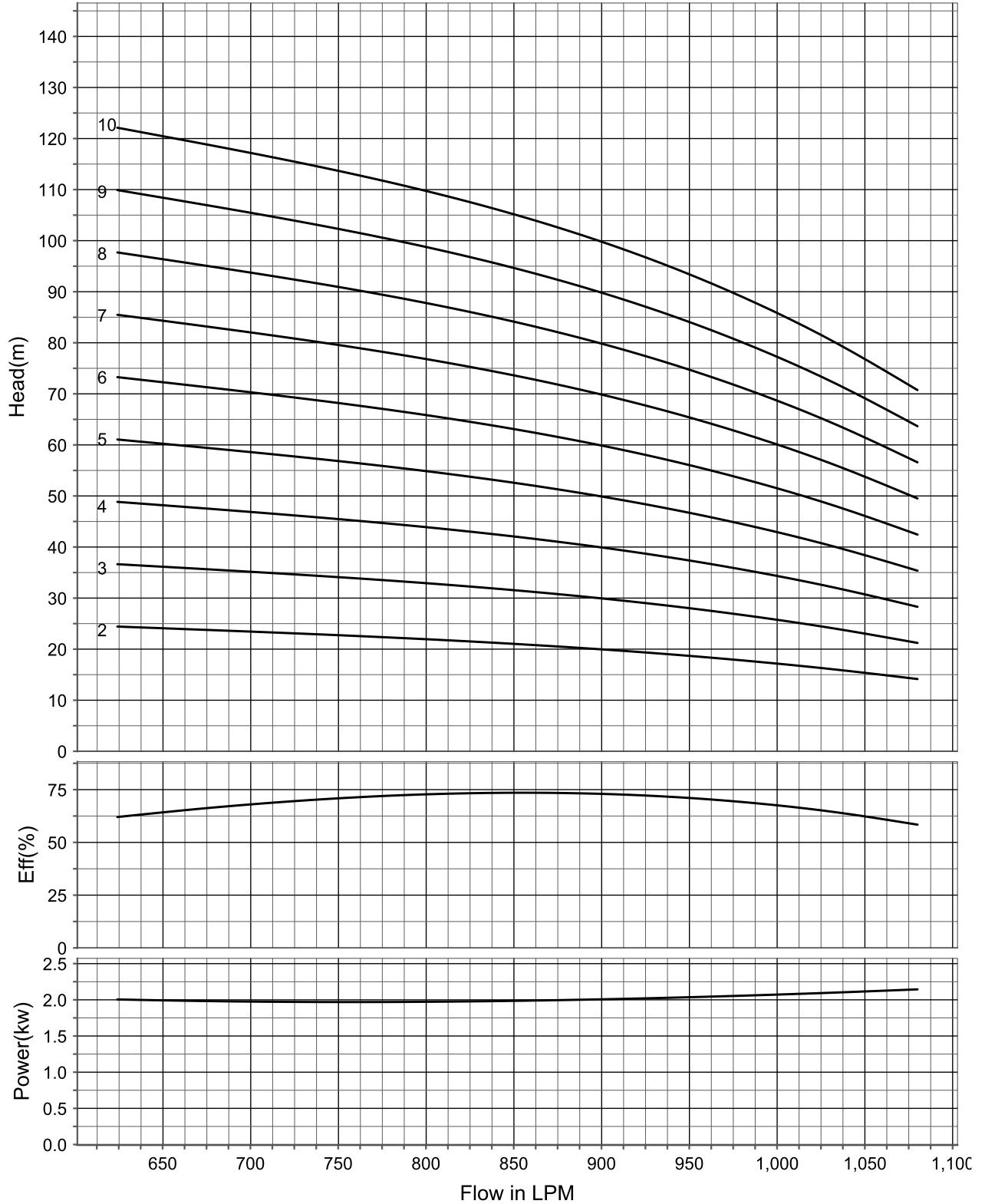
### GA Drawing Dimension • Model: M-63

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-63	10.0	3	751	602	1353	142	138	25	57	82
M-63	12.5	4	806	707	1513	142	138	30	65	95
M-63	17.5	5	876	812	1688	142	138	35	71	106
M-63	17.5	6	876	917	1793	142	138	41	71	112
M-63	22.5	7	996	1022	2018	142	138	46	79	125
M-63	25.0	8	996	1182	2178	142	138	63	85	148
M-63	25.0	9	996	1287	2283	142	138	68	85	153
M-63	30.0	10	1076	1392	2468	142	138	74	100	174



**Performance Curves • Model: M-63**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 75 mm • Max OD: 142 mm • Min Bore: 150 mm

**Performance Chart • Model: M-64**

Outlet Size 3" (75 mm)

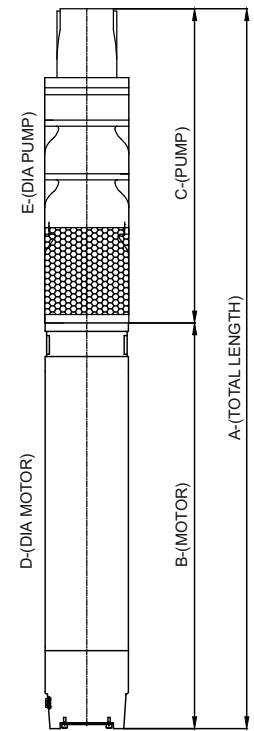
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			720	816	912	1020	1080	1140	1200
3	10.0		37	35	33	30	29	24	22
4	12.5		49	46	43	40	37	32	29
5	17.5		62	58	55	50	48	40	36
6	22.5		73	69	65	60	56	48	43
7	25.0		86	81	76	71	66	56	50
8	25.0		98	92	86	81	75	63	58
9	30.0		111	104	98	91	85	72	65

All Dimension are in mm

A	B	C
±20	±10	±10

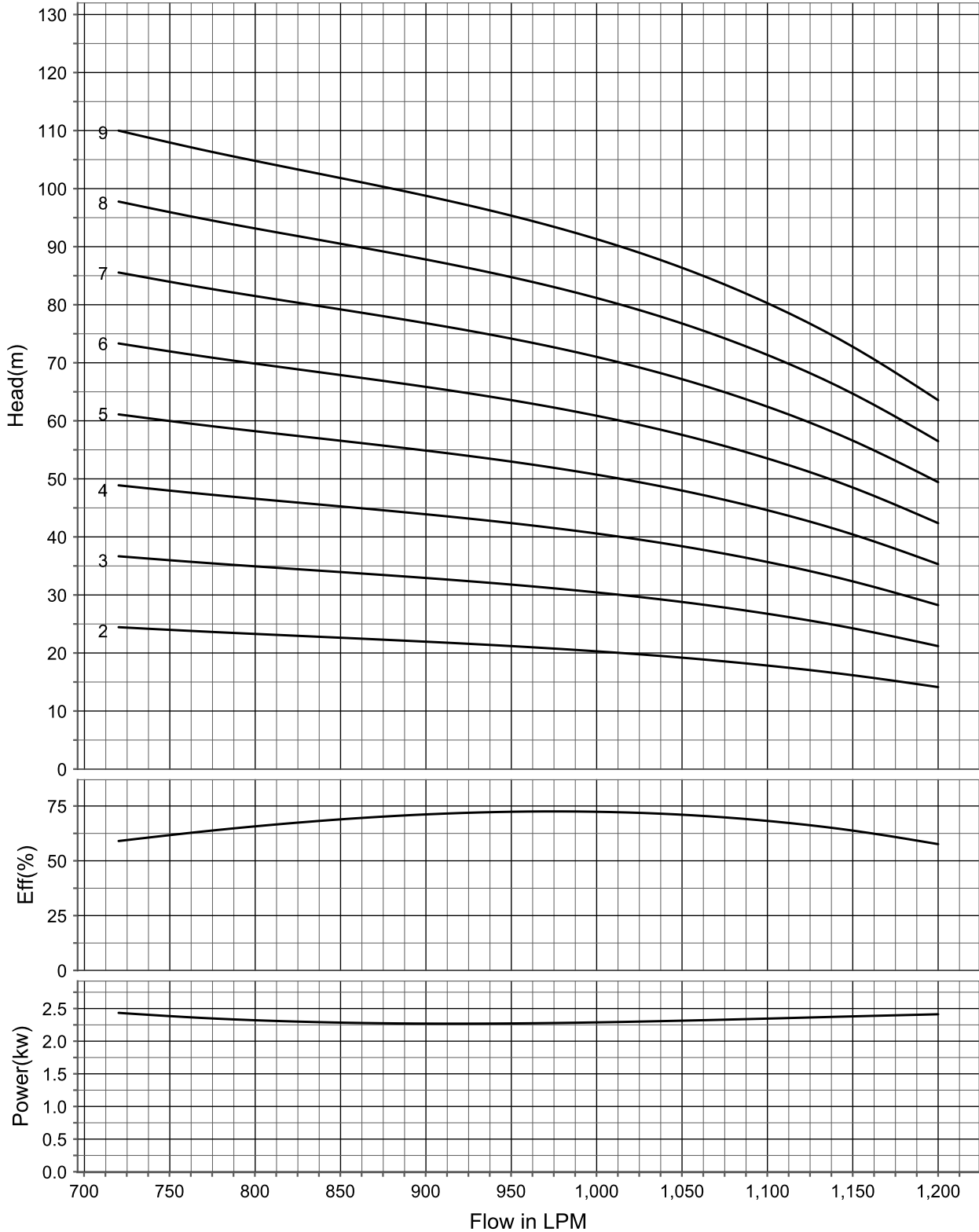
**GA Drawing Dimension • Model: M-64**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-64	10.0	3	751	602	1353	142	138	25	57	82
M-64	12.5	4	806	707	1513	142	138	31	65	96
M-64	17.5	5	876	812	1688	142	138	37	71	108
M-64	22.5	6	996	917	1913	142	138	43	79	122
M-64	25.0	7	996	1022	2018	142	138	50	85	135
M-64	25.0	8	996	1182	2178	142	138	65	85	150
M-64	30.0	9	1076	1287	2363	142	138	71	100	171



**Performance Curves • Model: M-64**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 75 mm • Max OD: 142 mm • Min Bore: 150 mm

**Performance Chart • Model: M-65**

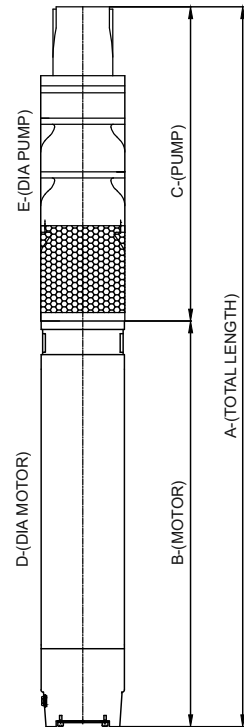
Outlet Size 3" (75 mm)

STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			756	960	1044	1140	1224	1320	1440
2	10.0		26	23	22	20	19	17	14
3	12.5		39	35	33	30	29	26	22
4	17.5		52	46	43	40	37	35	29
5	22.5		65	58	55	50	48	43	36
6	25.0		78	69	65	60	56	52	43
7	30.0		91	81	76	71	66	60	50

All Dimension are in mm		
<b>A</b>	<b>B</b>	<b>C</b>
±20	±10	±10

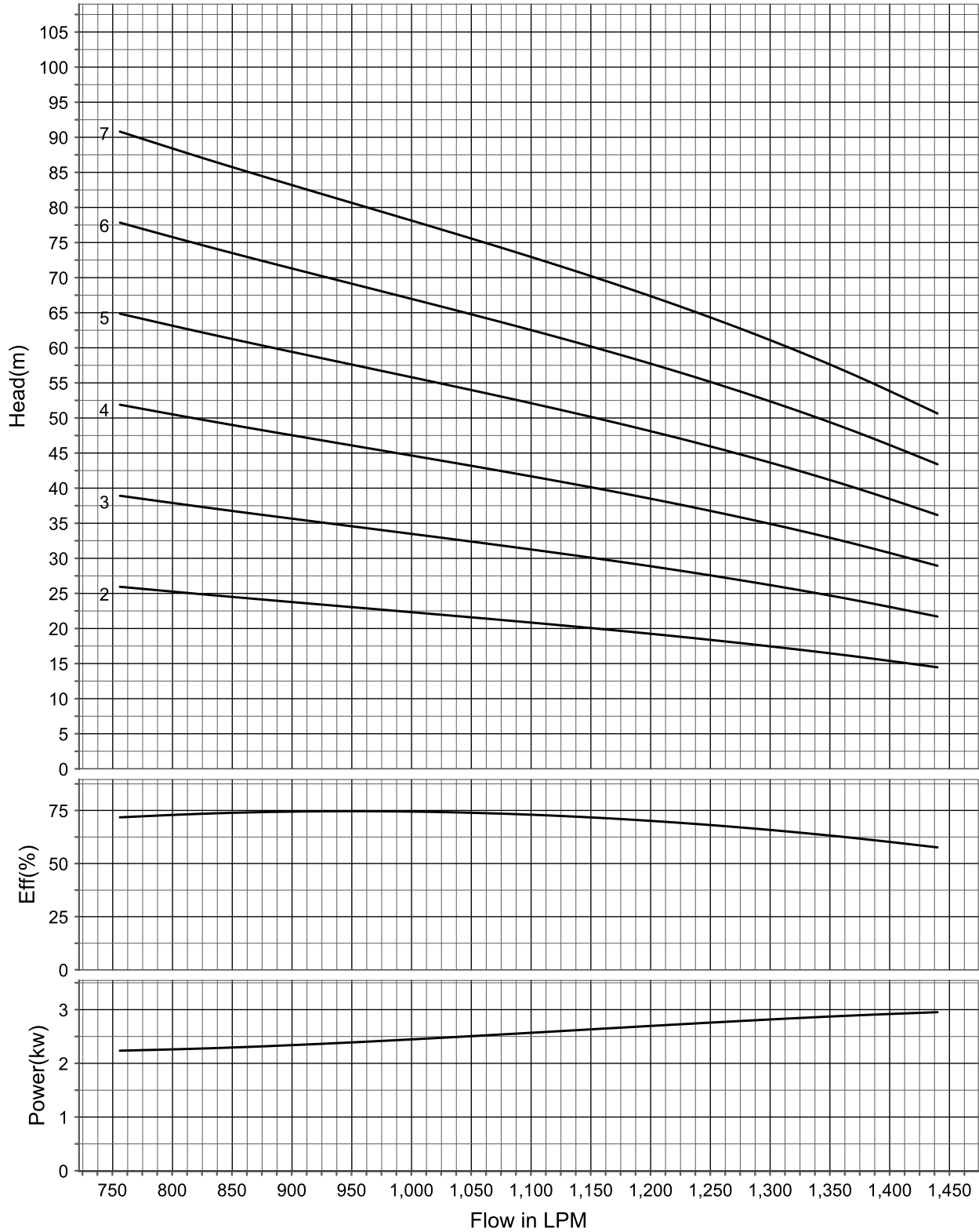
**GA Drawing Dimension • Model: M-65**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-65	10.0	2	751	497	1248	142	138	21	57	78
M-65	12.5	3	806	602	1408	142	138	26	65	91
M-65	17.5	4	876	707	1583	142	138	32	71	103
M-65	22.5	5	996	812	1808	142	138	37	79	116
M-65	25.0	6	996	917	1913	142	138	42	85	127
M-65	30.0	7	1076	1022	2098	142	138	48	100	148



**Performance Curves • Model: M-65**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 75 mm • Max OD: 142 mm • Min Bore: 150 mm

**Performance Chart • Model: RHS-62K**

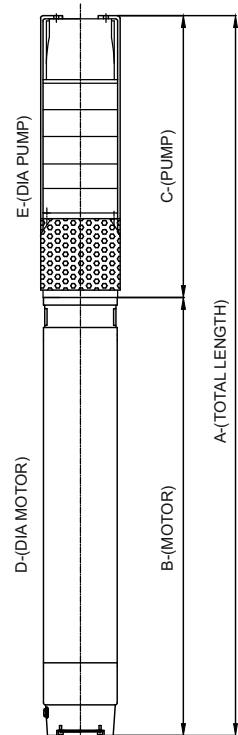
Outlet Size 2.5" (65 mm)

STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			30	114	144	174	192	198	204
6	5.0		110	104	93	84	73	65	55
8	7.5		146	138	124	111	98	86	73
10	10.0		183	173	156	139	122	108	91
12	10.0		219	207	187	167	147	130	109
15	12.5		274	259	233	209	184	162	137
20	17.5		366	346	311	278	245	216	182

All Dimension are in mm		
<b>A</b>	<b>B</b>	<b>C</b>
±20	±10	±10

**GA Drawing Dimension • Model: RHS-62K**

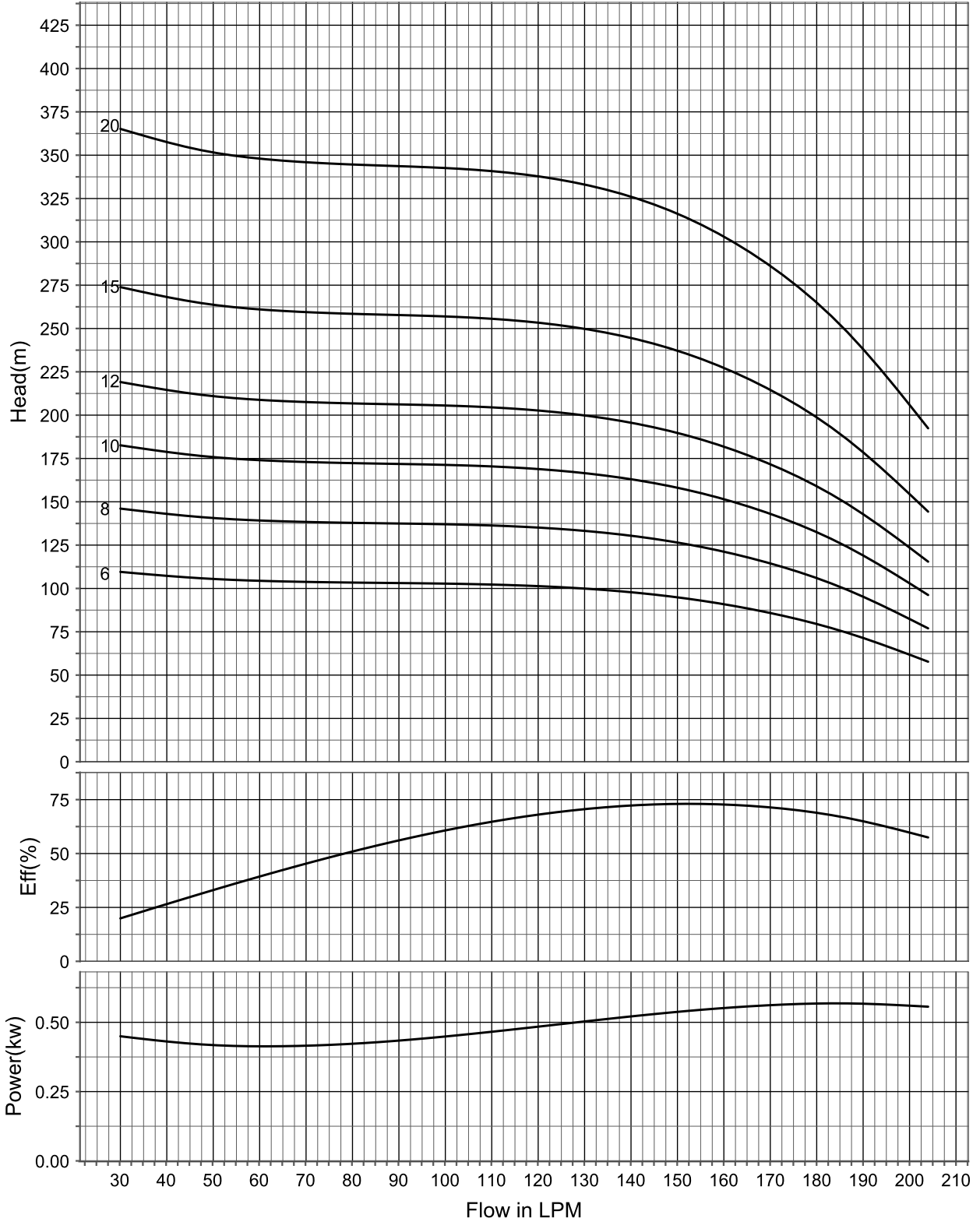
Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
RHS-62K	5.0	6	631	471	1102	142	143	22	44	66
RHS-62K	7.5	8	696	543	1239	142	143	26	50	76
RHS-62K	10.0	10	751	615	1366	142	143	29	57	86
RHS-62K	10.0	12	751	687	1438	142	143	32	57	89
RHS-62K	12.5	15	806	795	1601	142	143	37	65	102
RHS-62K	17.5	20	876	975	1851	142	143	45	71	116





**Performance Curves • Model: RHS-62K**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

### Performance Chart • Model: RHS-63

Outlet Size 2.5" (65 mm)

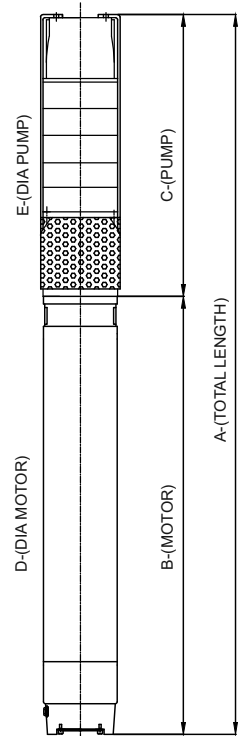
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			36	96	174	198	216	258	288
5	5.0		104	99	86	79	66	53	35
7	7.5		146	139	121	111	93	74	48
8	10.0		167	159	138	127	106	84	55
10	10.0		209	199	173	158	132	105	69
12	12.5		251	238	207	190	159	126	83
16	17.5		334	318	276	253	212	168	111
19	22.5		397	378	328	301	252	200	131
20	25.0		418	397	346	317	265	210	138

All Dimension are in mm

A	B	C
±20	±10	±10

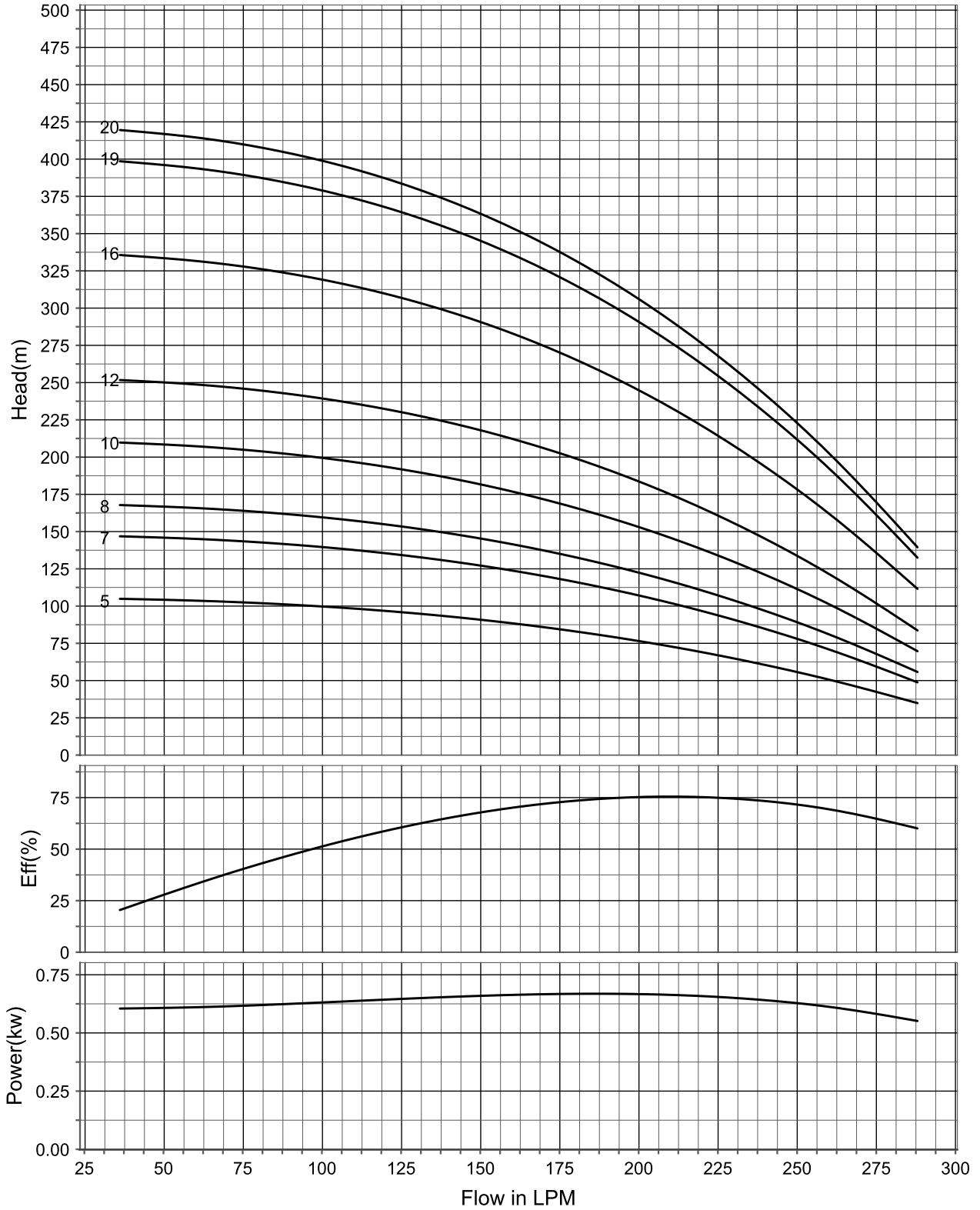
### GA Drawing Dimension • Model: RHS-63

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
RHS-63	5.0	5	631	435	1066	142	143	22	44	66
RHS-63	7.5	7	696	507	1203	142	143	25	50	75
RHS-63	10.0	8	751	543	1294	142	143	27	57	84
RHS-63	10.0	10	751	615	1366	142	143	30	57	87
RHS-63	12.5	12	806	687	1493	142	143	33	65	98
RHS-63	17.5	16	876	831	1707	142	143	39	71	110
RHS-63	22.5	19	996	939	1935	142	143	44	79	123
RHS-63	25.0	20	996	975	1971	142	143	46	85	131



**Performance Curves • Model: RHS-63**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

**Performance Chart • Model: RHS-63K**

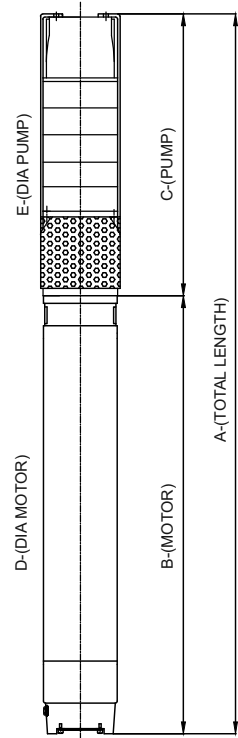
Outlet Size 2.5" (65 mm)

STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			30	108	162	204	216	270	294
4	5.0		86	81	76	69	56	37	26
5	7.5		107	101	95	86	70	46	33
6	10.0		129	121	114	104	84	55	40
7	10.0		150	141	133	121	98	65	46
10	12.5		215	202	190	173	140	92	66
12	17.5		257	242	228	207	168	111	79
15	22.5		322	302	285	259	210	138	99
18	25.0		386	363	342	311	251	166	119
21	30.0		451	423	399	363	293	194	139

All Dimension are in mm		
<b>A</b>	<b>B</b>	<b>C</b>
±20	±10	±10

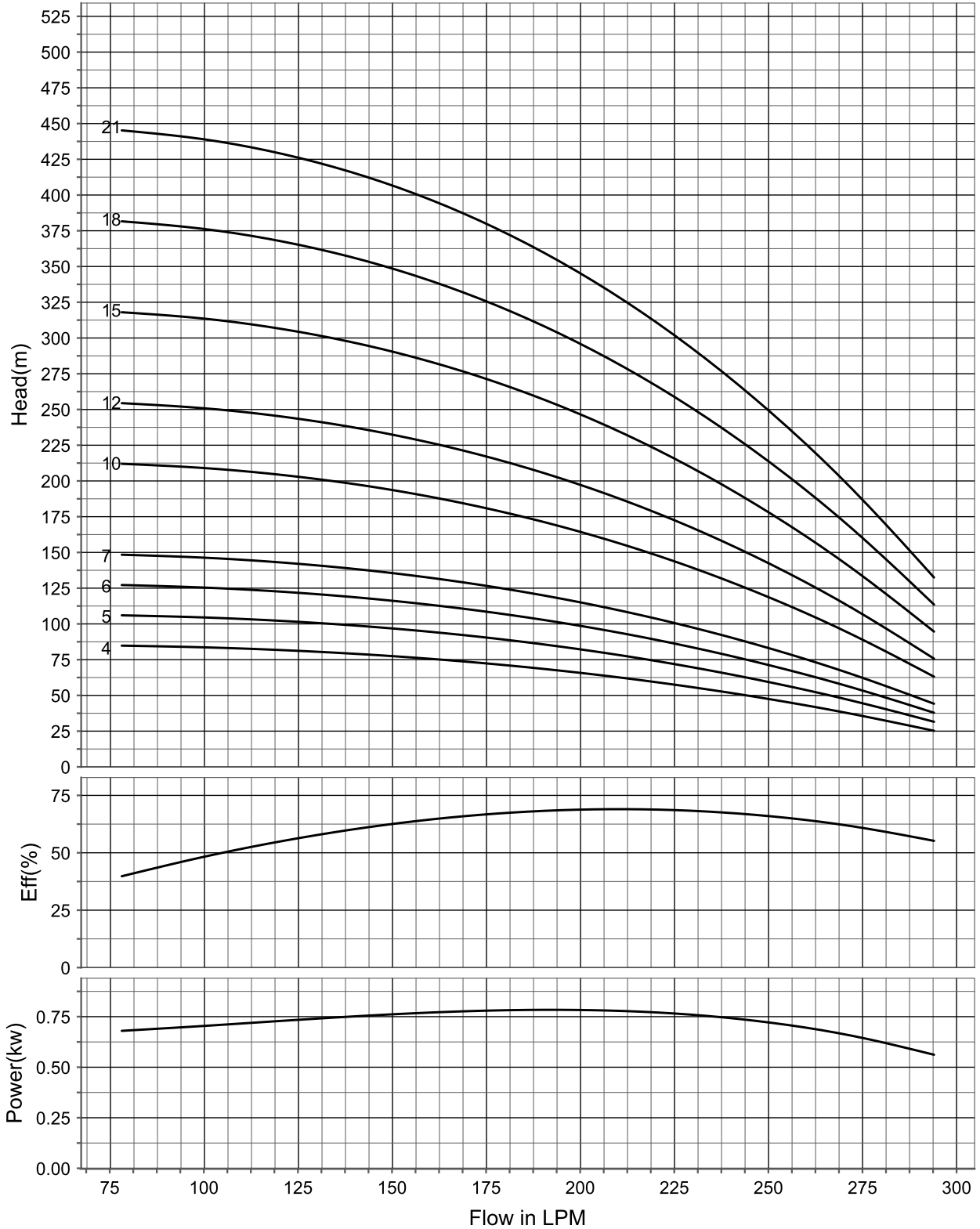
**GA Drawing Dimension • Model: RHS-63K**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
RHS63K	5.0	4	631	399	1030	142	143	22	44	66
RHS63K	7.5	5	696	435	1131	142	143	23	50	73
RHS63K	10.0	6	751	471	1222	142	143	25	57	82
RHS63K	10.0	7	751	507	1258	142	143	26	57	83
RHS63K	12.5	10	806	615	1421	142	143	28	65	93
RHS63K	17.5	12	876	687	1563	142	143	31	71	102
RHS63K	22.5	15	996	795	1791	142	143	34	79	113
RHS63K	25.0	18	996	903	1899	142	143	39	85	124
RHS63K	30.0	21	1076	1011	2087	142	143	48	100	148



**Performance Curves • Model: RHS-63K**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

**Performance Chart • Model: RHS-65K**

Outlet Size 2.5" (65 mm)

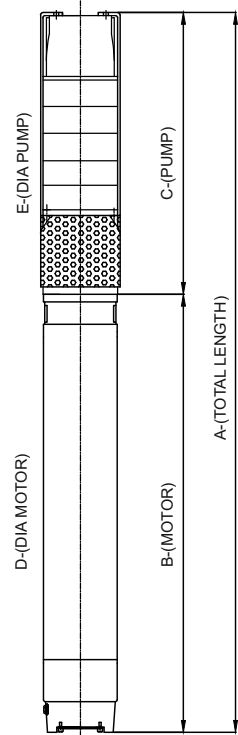
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			60	144	282	318	360	396	426
3	5.0		62	57	52	43	32	24	15
4	7.5		83	76	69	58	43	32	20
5	10.0		104	95	86	72	54	40	25
6	10.0		124	114	104	86	65	48	30
8	12.5		166	152	138	115	86	65	40
10	17.5		207	190	173	144	108	81	50
12	22.5		249	228	207	173	130	97	60
15	25.0		311	285	259	216	162	121	76
18	30.0		373	342	311	259	194	145	91

All Dimension are in mm

A	B	C
±20	±10	±10

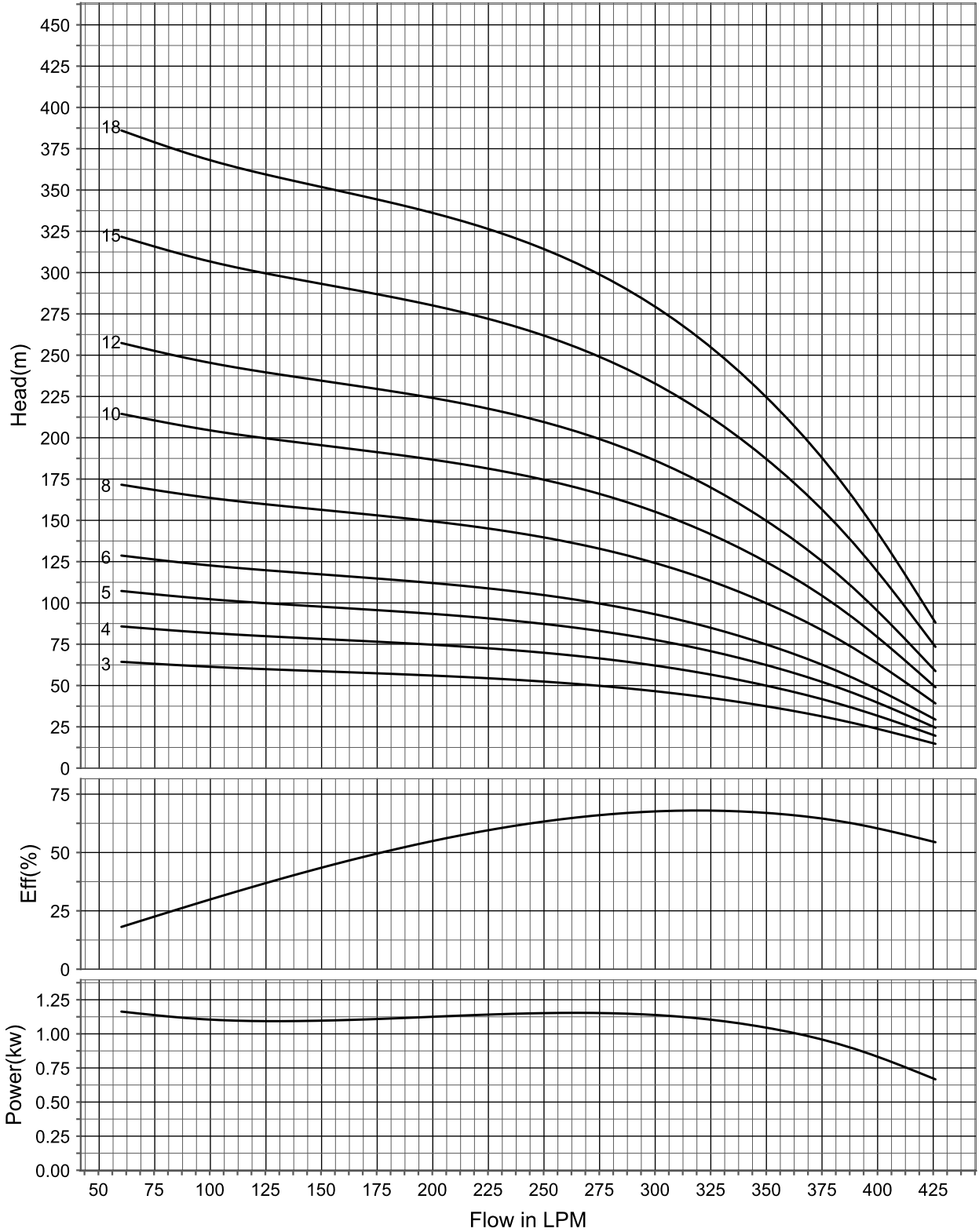
**GA Drawing Dimension • Model: RHS-65K**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
RHS-65K	5.0	3	631	375	1006	142	143	21	44	65
RHS-65K	7.5	4	696	415	1111	142	143	22	50	72
RHS-65K	10.0	5	751	455	1206	142	143	24	57	81
RHS-65K	10.0	6	751	495	1246	142	143	26	57	82
RHS-65K	12.5	8	806	575	1381	142	143	29	65	94
RHS-65K	17.5	10	876	655	1531	142	143	32	71	103
RHS-65K	22.5	12	996	735	1731	142	143	35	79	114
RHS-65K	25.0	15	996	855	1851	142	143	40	85	125
RHS-65K	30.0	18	1076	975	2051	142	143	45	100	145



**Performance Curves • Model: RHS-65K**

Speed : 3480.0 RPM, Frequency : 60Hz



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

**Performance Chart • Model: RHS-65**

Outlet Size 2.5" (65 mm)

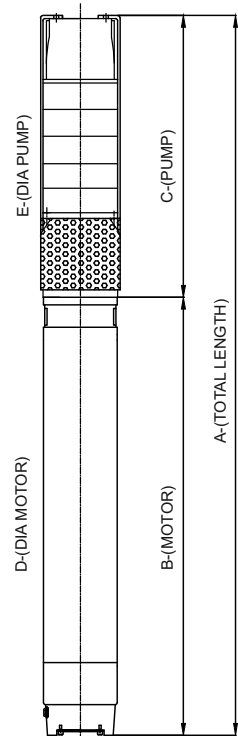
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			84	180	276	366	456	498	534
3	7.5		67	64	62	52	39	32	22
4	10.0		89	85	82	69	52	43	29
5	10.0		112	107	103	86	65	54	36
6	12.5		134	128	124	104	78	65	43
8	17.5		179	170	165	138	104	86	58
10	25.0		223	213	206	173	130	108	72
12	25.0		268	256	247	207	156	130	86
14	30.0		312	298	288	242	181	151	101

All Dimension are in mm

A	B	C
±20	±10	±10

**GA Drawing Dimension • Model: RHS-65**

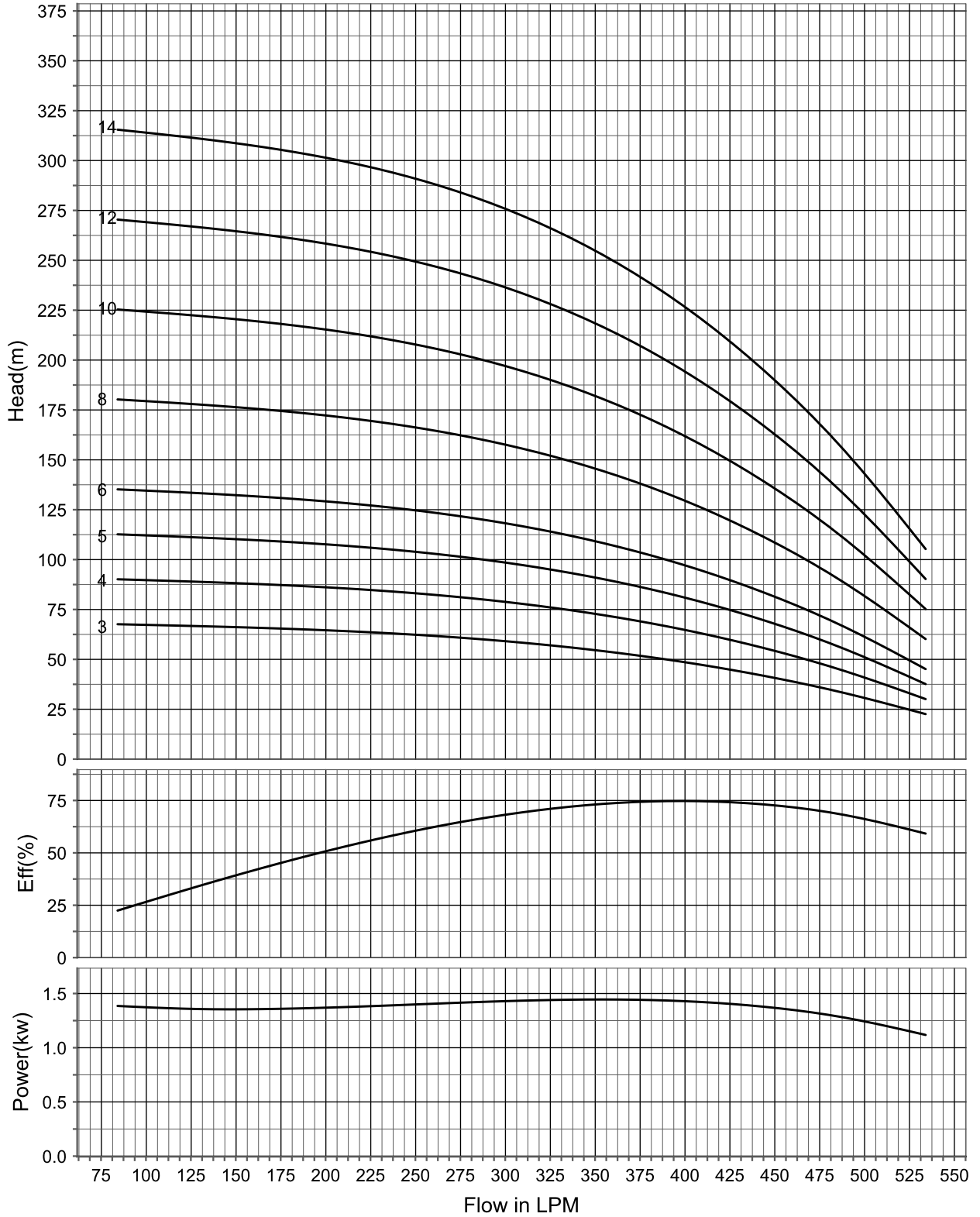
Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
RHS-65	7.5	3	696	384	1080	142	143	21	50	71
RHS-65	10.0	4	751	427	1178	142	143	22	57	79
RHS-65	10.0	5	751	470	1221	142	143	24	57	81
RHS-65	12.5	6	806	513	1319	142	143	26	65	91
RHS-65	17.5	8	876	599	1475	142	143	29	71	100
RHS-65	22.5	10	996	685	1681	142	143	32	79	111
RHS-65	25.0	12	996	771	1767	142	143	36	85	121
RHS-65	30.0	14	1076	857	1933	142	143	40	100	140





**Performance Curves • Model: RHS-65**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

**Performance Chart • Model: RHS-66**

Outlet Size 2.5" (65 mm)

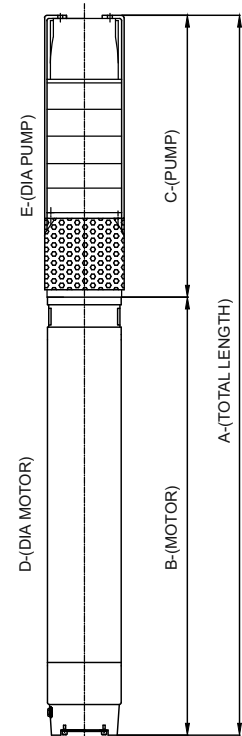
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			60	240	390	414	498	522	576
2	5.0		45	40	37	35	26	21	14
3	10.0		68	60	56	52	40	32	22
4	10.0		90	81	75	69	53	43	29
5	12.5		113	101	94	86	66	53	36
7	17.5		158	141	131	121	93	75	50
8	25.0		181	161	150	138	106	85	58
10	25.0		226	202	187	173	132	107	72
12	30.0		271	242	225	207	159	128	86

All Dimension are in mm

A	B	C
±20	±10	±10

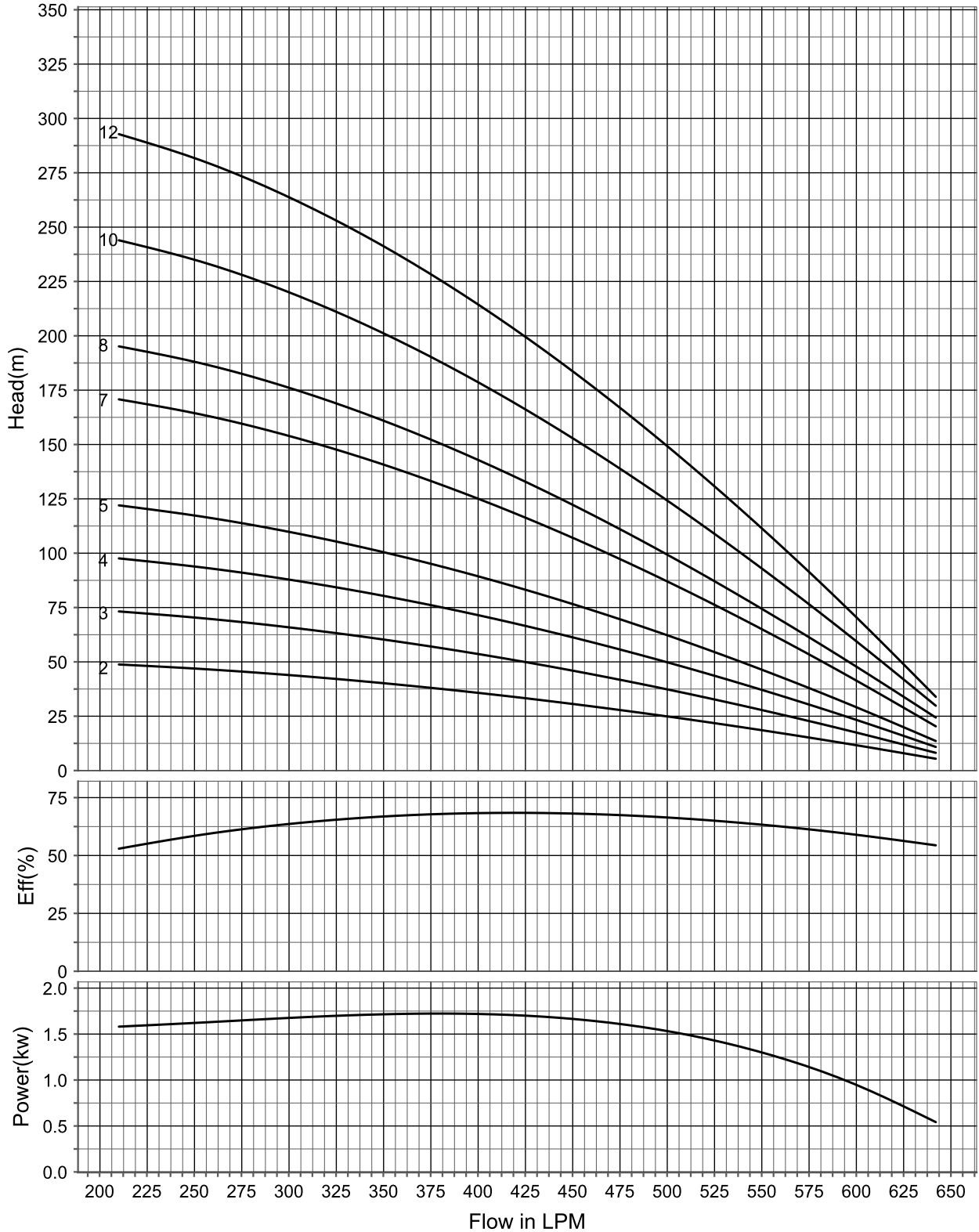
**GA Drawing Dimension • Model: RHS-66**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
RHS-66	5.0	2	631	349	980	142	143	19	44	63
RHS-66	10.0	3	751	396	1147	142	143	21	57	78
RHS-66	10.0	4	751	443	1194	142	143	22	57	79
RHS-66	12.5	5	806	490	1296	142	143	24	65	89
RHS-66	17.5	7	876	584	1460	142	143	28	71	99
RHS-66	22.5	8	996	631	1627	142	143	30	79	109
RHS-66	25.0	10	996	725	1721	142	143	34	85	119
RHS-66	30.0	12	1076	819	1895	142	143	37	100	137



**Performance Curves • Model: RHS-66**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

**Performance Chart • Model: RHS-67**

Outlet Size 2.5" (65 mm)

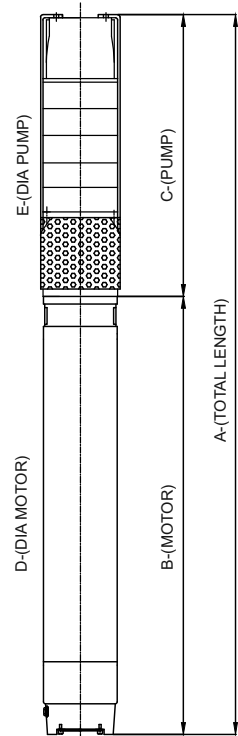
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			72	270	450	540	564	624	720
2	7.5		39	37	35	32	30	26	22
3	10.0		58	56	52	48	45	39	32
4	12.5		78	75	69	63	60	52	43
5	17.5		97	94	86	79	76	65	54
6	25.0		117	112	104	95	91	78	65
8	25.0		156	150	138	127	121	104	86
9	30.0		175	168	156	143	136	117	97

All Dimension are in mm

A	B	C
±20	±10	±10

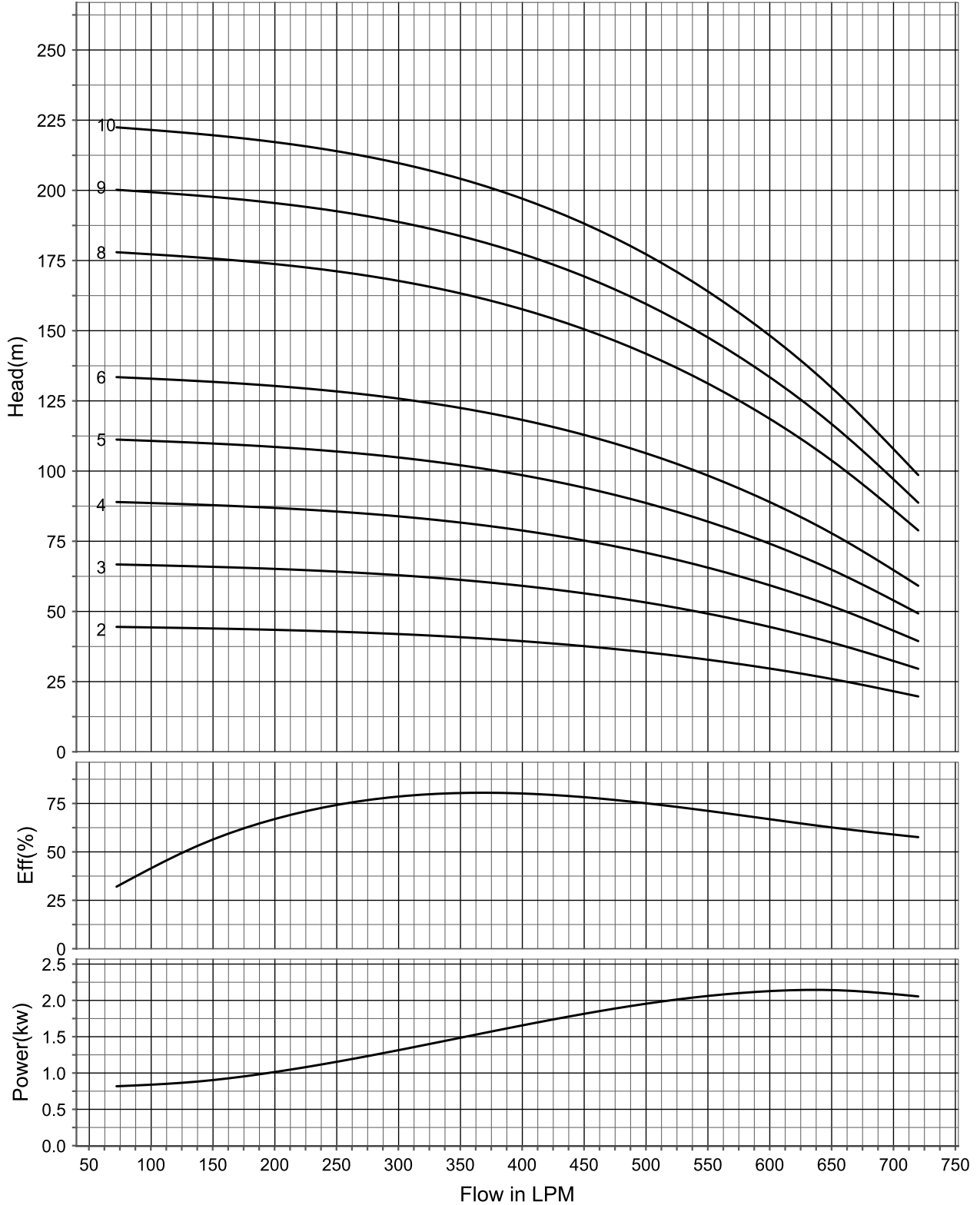
**GA Drawing Dimension • Model: RHS-67**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
RHS-67	7.5	2	696	365	1061	142	143	18	50	68
RHS-67	10.0	3	751	420	1171	142	143	21	57	78
RHS-67	12.5	4	806	475	1281	142	143	23	65	88
RHS-67	17.5	5	876	530	1406	142	143	25	71	96
RHS-67	22.5	6	996	585	1581	142	143	27	79	106
RHS-67	25.0	8	996	695	1691	142	143	31	85	116
RHS-67	30.0	9	1076	750	1826	142	143	33	100	133



**Performance Curves • Model: RHS-67**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 65 mm • Max OD: 142 mm • Min Bore: 150 mm

**Performance Chart • Model: MHS-62**

Outlet Size 3" (75 mm)

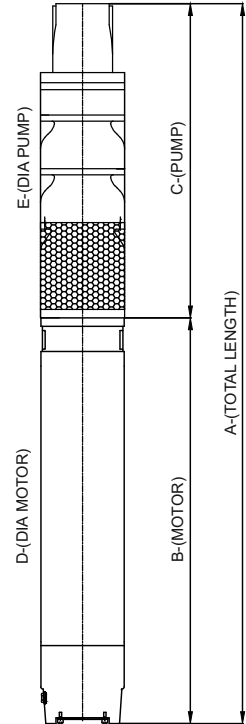
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			888	750	630	510	372	240	132
2	5.0		13	17	22	26	30	35	37
3	10.0		20	26	33	39	46	52	56
4	10.0		26	35	43	52	60	69	75
5	12.5		33	43	55	65	76	86	94
7	17.5		46	60	76	91	107	121	131
8	25.0		52	69	86	104	121	138	150
10	25.0		65	86	108	130	151	173	187
12	30.0		78	104	130	156	181	207	225

All Dimension are in mm

A	B	C
±20	±10	±10

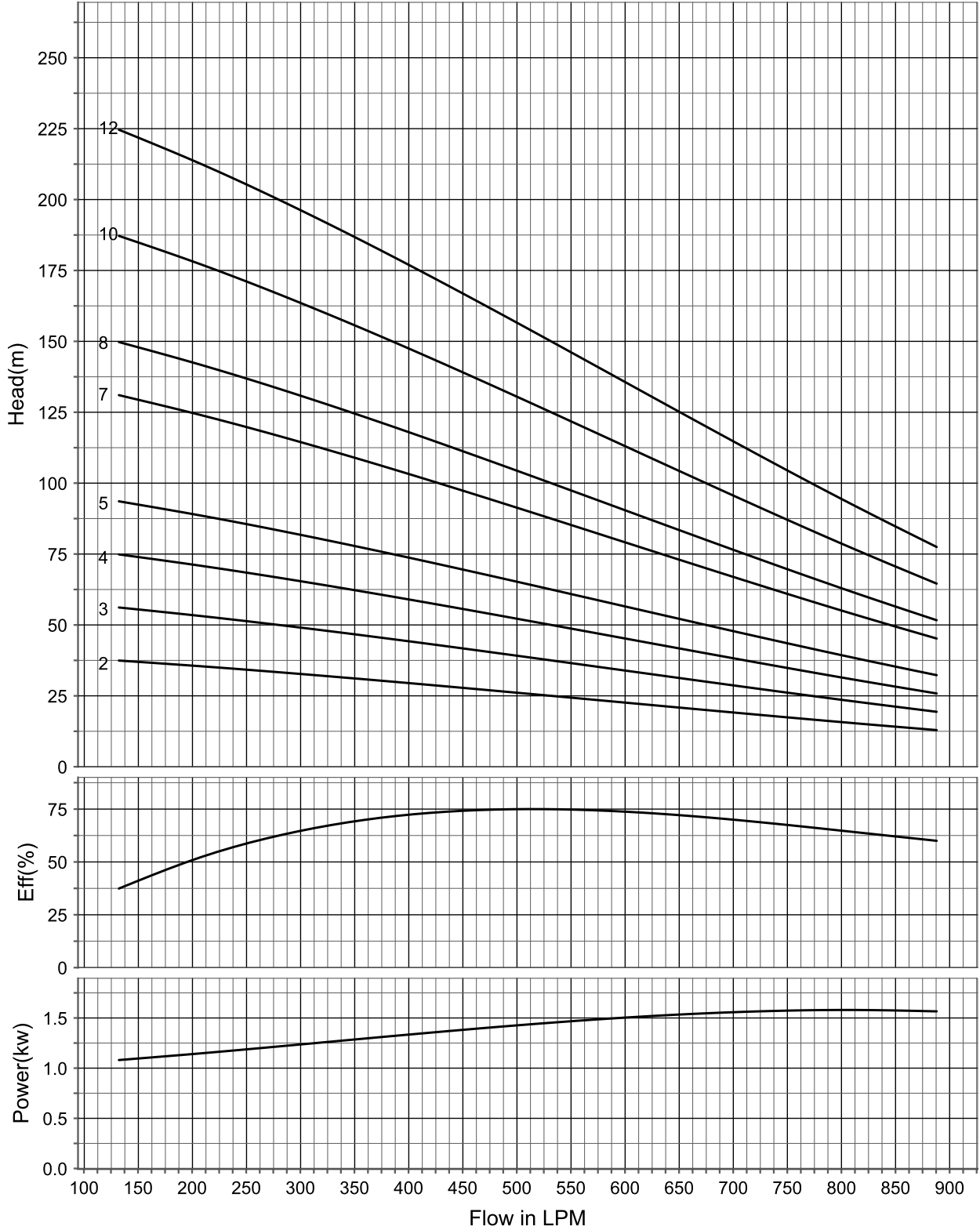
**GA Drawing Dimension • Model: MHS-62**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
MHS-62	5.0	2	631	539	1170	142	142	20	44	64
MHS-62	10.0	3	751	618	1369	142	142	23	57	80
MHS-62	10.0	4	751	697	1448	142	142	27	57	84
MHS-62	12.5	5	806	776	1582	142	142	31	65	96
MHS-62	17.5	7	876	934	1810	142	142	39	71	110
MHS-62	25.0	8	996	1013	2009	142	142	48	85	133
MHS-62	25.0	10	996	1171	2167	142	142	57	85	142
MHS-62	30.0	12	1084	1329	2413	142	142	65	100	165



**Performance Curves • Model: MHS-62**

Speed : 3480.0 RPM, Frequency : 60Hz



Outlet: 75 mm • Max OD: 142 mm • Min Bore: 150 mm

**Performance Chart • Model: MHS-64**

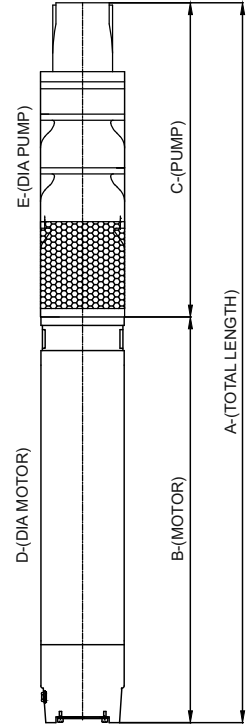
Outlet Size 3" (75 mm)

STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			1152	936	840	672	540	360	240
2	7.5		13	17	22	26	30	35	37
3	10.0		20	26	33	39	46	52	56
4	12.5		26	35	43	52	60	69	75
5	17.5		33	43	55	65	76	86	94
6	25.0		39	52	65	78	91	104	112
8	25.0		52	69	86	104	121	138	150
9	30.0		59	78	98	117	137	156	168

All Dimension are in mm		
<b>A</b>	<b>B</b>	<b>C</b>
±20	±10	±10

**GA Drawing Dimension • Model: MHS-64**

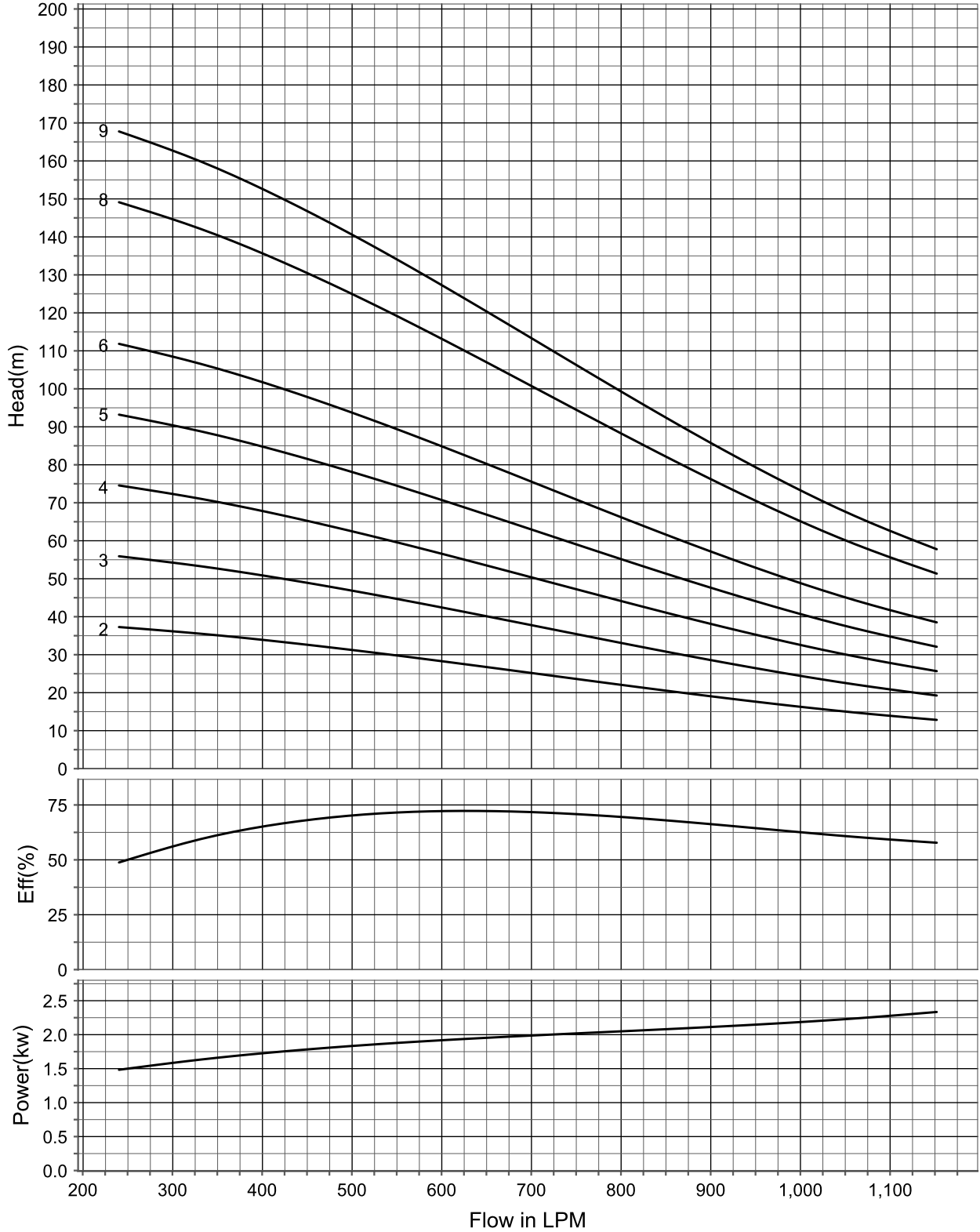
Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
MHS-64	7.5	2	696	539	1235	142	142	20	50	70
MHS-64	10.0	3	751	618	1369	142	142	23	57	80
MHS-64	12.5	4	806	697	1503	142	142	27	65	92
MHS-64	17.5	5	876	776	1652	142	142	31	71	102
MHS-64	25.0	6	996	855	1851	142	142	35	85	120
MHS-64	25.0	8	996	1013	2009	142	142	48	85	133
MHS-64	30.0	9	1084	1092	2176	142	142	52	100	152





**Performance Curves • Model: MHS-64**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 75 mm • Max OD: 142 mm • Min Bore: 150 mm

**Performance Chart • Model: MHS-65**

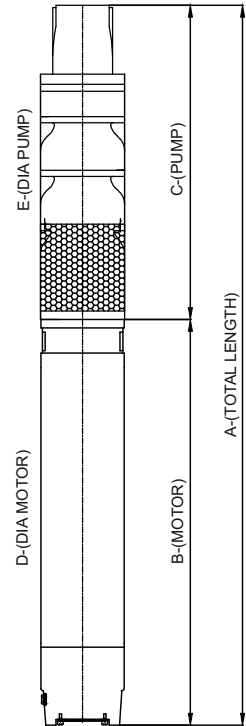
Outlet Size 3" (75 mm)

STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			1440	1320	1140	948	828	576	360
2	10.0		13	17	22	26	30	35	37
3	12.5		20	26	33	39	46	52	56
4	17.5		26	35	43	52	60	69	75
5	25.0		33	43	55	65	76	86	94
6	25.0		39	52	65	78	91	104	112
7	30.0		46	60	76	91	107	121	131

All Dimension are in mm		
A	B	C
±20	±10	±10

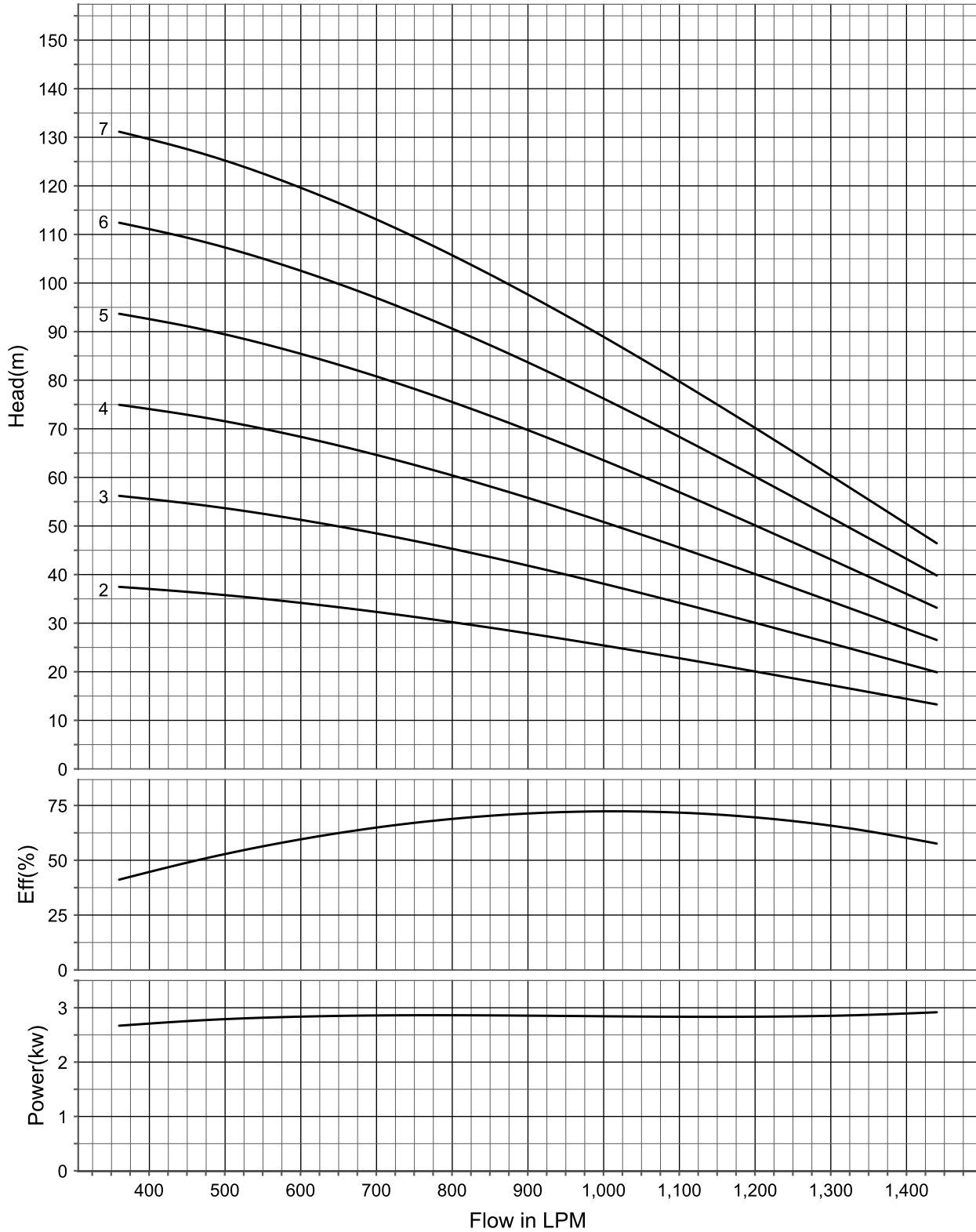
**GA Drawing Dimension • Model: MHS-65**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
MHS-65	10.0	2	751	539	1290	142	142	20	57	77
MHS-65	12.5	3	806	618	1424	142	142	23	65	88
MHS-65	17.5	4	876	697	1573	142	142	27	71	98
MHS-65	25.0	5	996	776	1772	142	142	31	85	116
MHS-65	25.0	6	996	855	1851	142	142	35	85	120
MHS-65	30.0	7	1084	934	2018	142	142	39	100	139



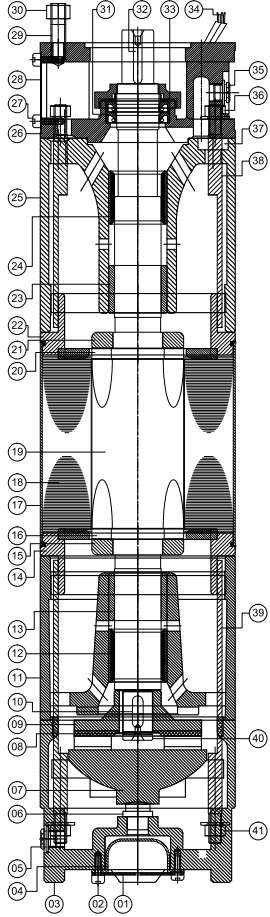
**Performance Curves • Model: MHS-65**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 75 mm • Max OD: 142 mm • Min Bore: 150 mm

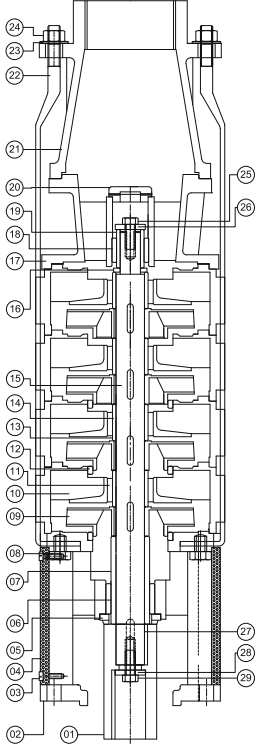
### Cross Section - Motor (Standard)



SR.	DESCRIPTION	MATERIAL
1	BASE PLATE	M.S.
2	M5 SCREW BASE PLATE	S.S.
3	MOTOR BASE	C.I. IS-210 EG 200
4	RUBBER CUP	NITRILE RUBBER
5	MOTOR BASE DRAIN PLUG	BRASS
6	ROCKER SUPPORT	S.S.
7	BEARING SEAT	S.S. - C.I.
8	REVOLVING PLATE CIRCLIP	SPRING STEEL
9	REVOLVING PLATE	CARBON - C.I.
10	REVOLVING PLATE KEY	S.S.
11	LOWER HOUSING	C.I IS -210 EG 200
12	LOWER BEARING BUSH	RUBBER
13	LOWER BEARING BUSH	LTB-4
14	LOWER SIDE STATOR RING	M.S.
15	LOWER BALANCE RING	C.I. IS-2 10 EG 200
16	LOWER SIDE COPPER RING	COPPER
17	STATOR TUBE	S.S.
18	STATOR STAMPING	CRNO
19	ROTOR STAMPING	CRNO
20	UPPER SIDE COPPER RING	COPPER
21	UPPER BALANCE RING	C.I. IS-2 10 FG 200
22	UPPER SIDE STATOR RING	M.S

SR.	DESCRIPTION	MATERIAL
23	UPPER BEARING BUSH	LTB-4
24	UPPER BEARING BUSH	RUBBER
25	UPPER HOUSING	C.I. IS-210 FG 200
26	CONNECTING PIECE	C.I. IS-2 10 FG 200
27	M5 SCREW FOR STRAINER	S.S.
28	STRAINER	S.S.
29	CONNECTING STUD	S.S.
30	HEX NUT STUD	S.S.
31	OIL SEAL	STANDARD
32	COUPLING KEY	S.S.
33	SAND GUARD SEAT	RUBBER -S.S.
34	CABLE	STANDARD
35	CONNECTING PIECE DRAIN PLUG	BRASS
36	T - STUD HEX NUT & WASHER FOR UPPER SIDE	M.S.
37	RUBBER GROMMET	RUBBER
38	T - STUD UPPER SIDE	M.S.
39	T - STUD LOWER SIDE	M.S.
40	ROTOR COMPLETE	
41	T - STUD HEX NUT & WASHER FOR LOWER SIDE	S.S.

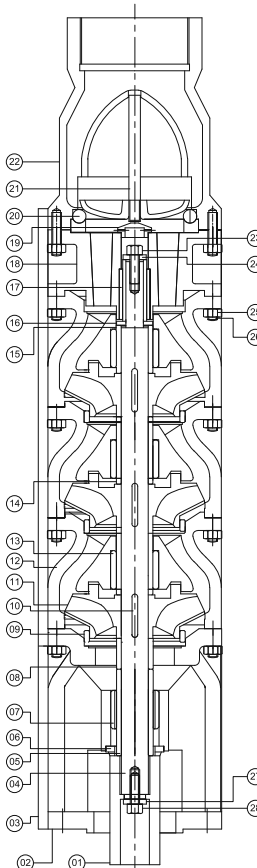
### Cross Section - Pump R-81 to R-84



SR.	DESCRIPTION	MATERIAL
1	PUMP COUPLING	S.S. 410
2	ADOPTER	C.I. IS- 210 FG 200
3	M5 SCREW FOR STRAINER	S.S.
4	SUCTION STRAINER FOR ADOPTER	S.S. 304
5	COUNTER THRUST BEARING	L.T.B-4
6	ADOPTER BEARING BUSH	L.T.B-4
7	ADOPTER SLEEVE	S.S. 410
8	HEX BOLT FOR ADOPTER	S.S.
9	STAGE CASING	C.I. IS-210 FG 200
10	IMPELLER	S.S.
11	BUSH FOR STAGE CASING	L.T.B. 4 - RUBBER
12	NECK RING	RUBBER
13	STAGE SLEEVE	S.S.
14	PUMP SHAFT KEY	S.S.

SR.	DESCRIPTION	MATERIAL
15	PUMP SHAFT	S.S. 410
16	WASHER FOR UPPER SLEEVE	S.S.
17	DISCHARGE OUTLET	C.I. IS-210 FG 200
18	BUSH FOR D.O.L.	L.T.B-4
19	TOP SLEEVE	S.S.
20	ADJUSTING CAP	C.I. IS-210 FG 200
21	NRV BODY	C.I. IS-210 FG 200
22	T - STUD	M.S.
23	T - STUD WASHER	S.S.
24	NUT FOR T - STUD	S.S.
25	HEX BOLT FOR TOP SLEEVE	S.S.
26	WASHER FOR TOP SLEEVE	S.S.
27	KEY FOR COUPLING	S.S.
28	WASHER FOR COUPLING	S.S.
29	HEX BOLT FOR COUPLING	S.S.

### Cross Section - Pump M-80 to M-86



SR.	DESCRIPTION	MATERIAL
1	PUMP COUPLING	S.S. 410
2	ADOPTER	C.I. IS-210 FG 200
3	CABLE GUARD	S.S.
4	PUMP SHAFT	S.S. 410
5	ADOPTER SLEEVE	S.S. 410
6	COUNTER THRUST BEARING	L.T.B-4
7	ADOPTER BEARING BUSH	L.T.B-4
8	DISTANCE SLEEVE	S.S. 410
9	NECK RING	RUBBER
10	IMPELLER KEY	S.S.
11	IMPELLER	S.S.
12	STAGE CASING	C.I. IS-210 FG 200
13	BUSH FOR STAGE CASING	L.T.B-4
14	STAGE SLEEVE	S.S. 410

SR.	DESCRIPTION	MATERIAL
15	UPPER SLEEVE	S.S. 410
16	UPPER SLEEVE WASHER	S.S. 410
17	BUSH FOR D.O.L.	L.T.B-4
18	DISCHARGE OUTLET	C.I. IS-210 FG 200
19	ADJUSTING CAP	C.I. IS-210 FG 200
20	NRV SUPPORTING RING	RUBBER
21	FLAP FOR NRV	M.S
22	NRV BODY	C.I. IS-210 FG 200
23	HEX BOLT FOR TOP SLEEVE	S.S.
24	WASHER FOR TOP SLEEVE	S.S.
25	STUD FOR STAGE	S.S.
26	NUT FOR STAGE	S.S.
27	WASHER FOR COUPLING	S.S.
28	HEX BOLT FOR COUPLING	S.S.

### Performance Chart • Model: R-81

Outlet Size 3" (75 mm)

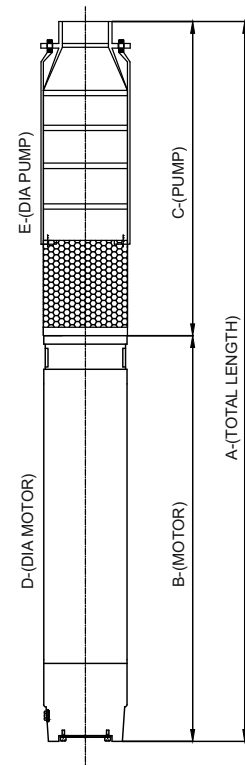
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			300	348	420	480	516	576	612
4	20.00		121	117	111	107	102	92	85
5	25.00		151	147	140	134	128	115	107
6	30.00		181	176	167	160	154	138	128
7	35.00		212	204	194	187	180	161	150
8	35.00		242	233	222	213	204	184	170
9	45.00		272	264	251	240	230	207	192
10	45.00		302	292	278	266	256	230	213
11	55.00		333	321	305	294	282	253	235
12	55.00		363	351	334	320	308	276	256
13	60.00		390	379	361	347	336	304	284
14	60.00		423	409	389	373	359	323	298

All Dimension are in mm

A	B	C
±20	±10	±10

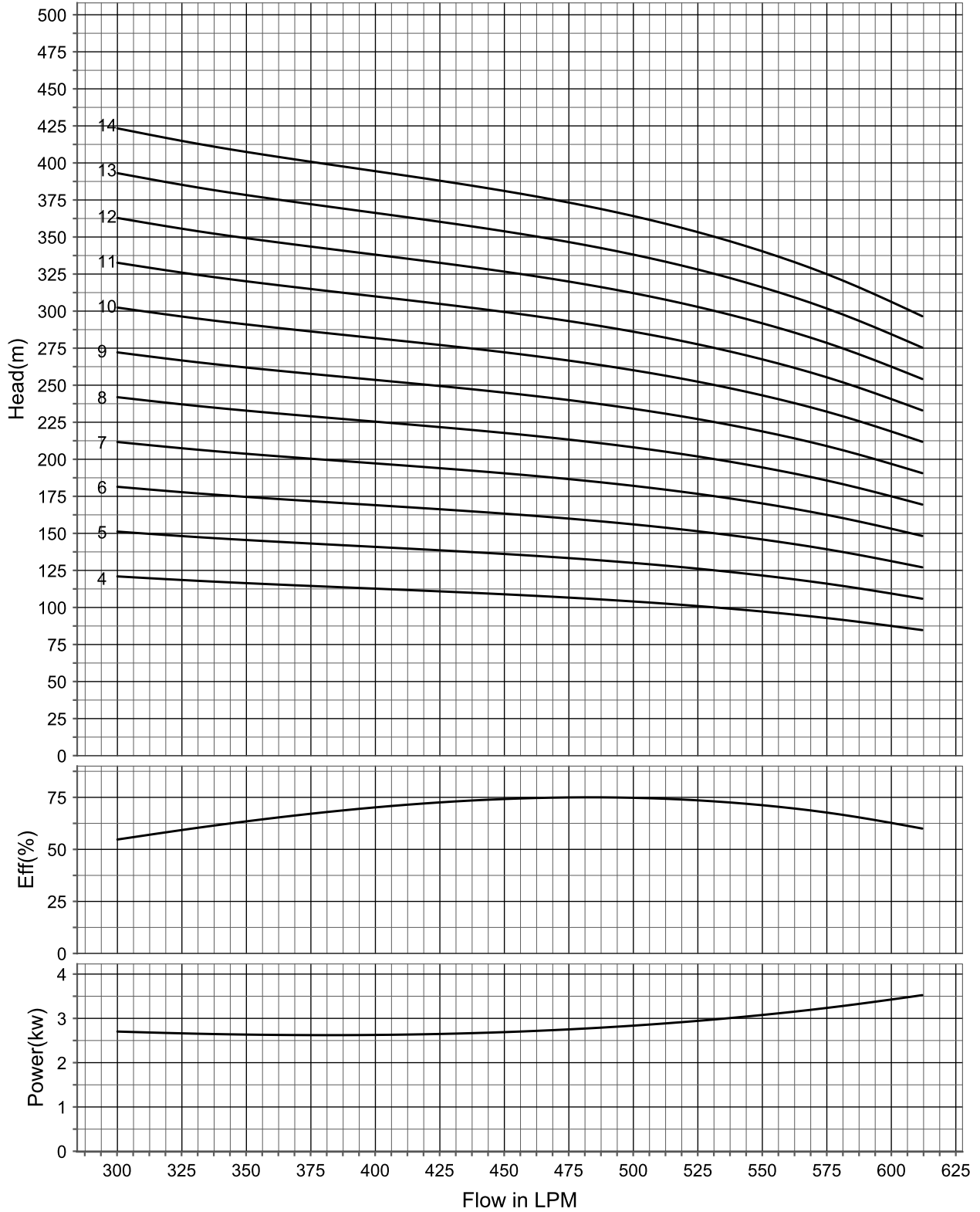
### GA Drawing Dimension • Model: R-81

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-81	20.00	4	952	629	1581	184	184	40	116	156
R-81	25.00	5	982	679	1661	184	184	43	120	163
R-81	30.00	6	1079	729	1808	184	184	47	137	184
R-81	35.00	7	1129	779	1908	184	184	51	149	200
R-81	35.00	8	1129	829	1958	184	184	55	149	204
R-81	45.00	9	1209	879	2088	184	184	59	159	218
R-81	45.00	10	1209	929	2138	184	184	63	159	222
R-81	55.00	11	1309	979	2288	184	184	66	183	249
R-81	55.00	12	1309	1029	2338	184	184	70	183	253
R-81	60.00	13	1359	1079	2438	184	184	75	149	224
R-81	60.00	14	1359	1129	2488	184	184	79	189	268



**Performance Curves • Model: R-81**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 75 mm • Max OD: 188 mm • Min Bore: 200 mm

**Performance Chart • Model: R-82**

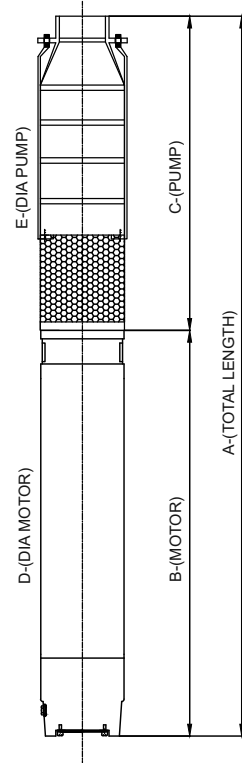
Outlet Size 3" (75 mm)

STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			348	408	456	600	636	660	720
4	20.00		118	114	111	104	98	95	78
5	30.00		147	143	140	130	124	120	98
6	35.00		176	171	167	156	148	143	118
7	35.00		206	200	194	181	173	167	137
8	45.00		235	228	222	207	197	190	157
9	55.00		265	256	251	233	222	215	176
10	55.00		294	285	278	259	246	238	196
11	55.00		323	314	305	285	271	262	216
12	60.00		353	343	334	311	295	285	235

All Dimension are in mm		
<b>A</b>	<b>B</b>	<b>C</b>
±20	±10	±10

**GA Drawing Dimension • Model: R-82**

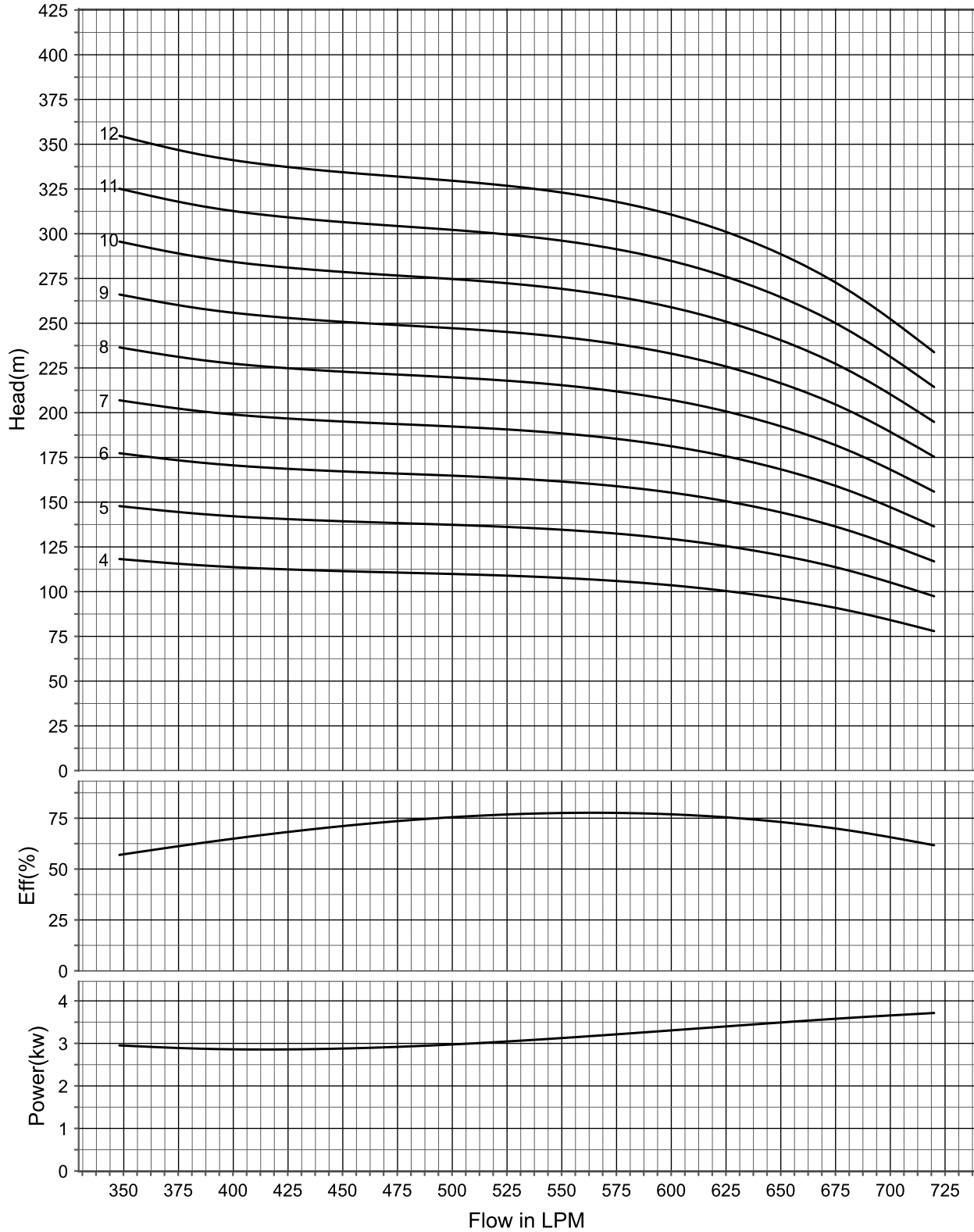
Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-82	20.00	4	952	629	1581	184	184	40	120	160
R-82	30.00	5	1079	679	1758	184	184	43	137	180
R-82	35.00	6	1129	729	1858	184	184	47	149	196
R-82	35.00	7	1129	779	1908	184	184	51	149	200
R-82	45.00	8	1209	829	2038	184	184	55	159	214
R-82	55.00	9	1309	879	2188	184	184	59	183	242
R-82	55.00	10	1309	929	2238	184	184	63	183	246
R-82	55.00	11	1309	979	2288	184	184	67	183	250
R-82	60.00	12	1359	1029	2388	184	184	80	189	269





**Performance Curves • Model: R-82**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 75 mm • Max OD: 188 mm • Min Bore: 200 mm

**Performance Chart • Model: R-83**

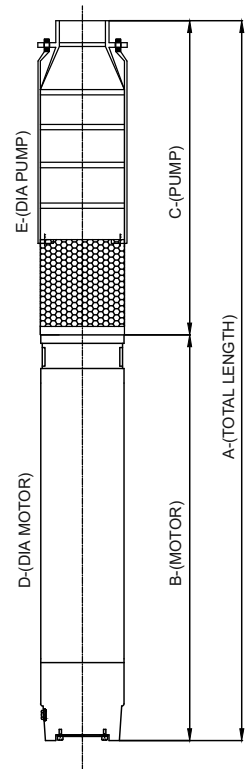
Outlet Size 3" (75 mm)

STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			540	660	840	912	1008	1056	1104
4	30.00		111	105	94	89	84	81	76
5	35.00		138	131	118	112	105	101	96
6	45.00		166	157	141	134	125	121	115
7	55.00		193	183	164	157	147	141	134
8	55.00		222	210	187	179	167	161	153
9	60.00		249	236	212	202	189	181	173

All Dimension are in mm		
<b>A</b>	<b>B</b>	<b>C</b>
±20	±10	±10

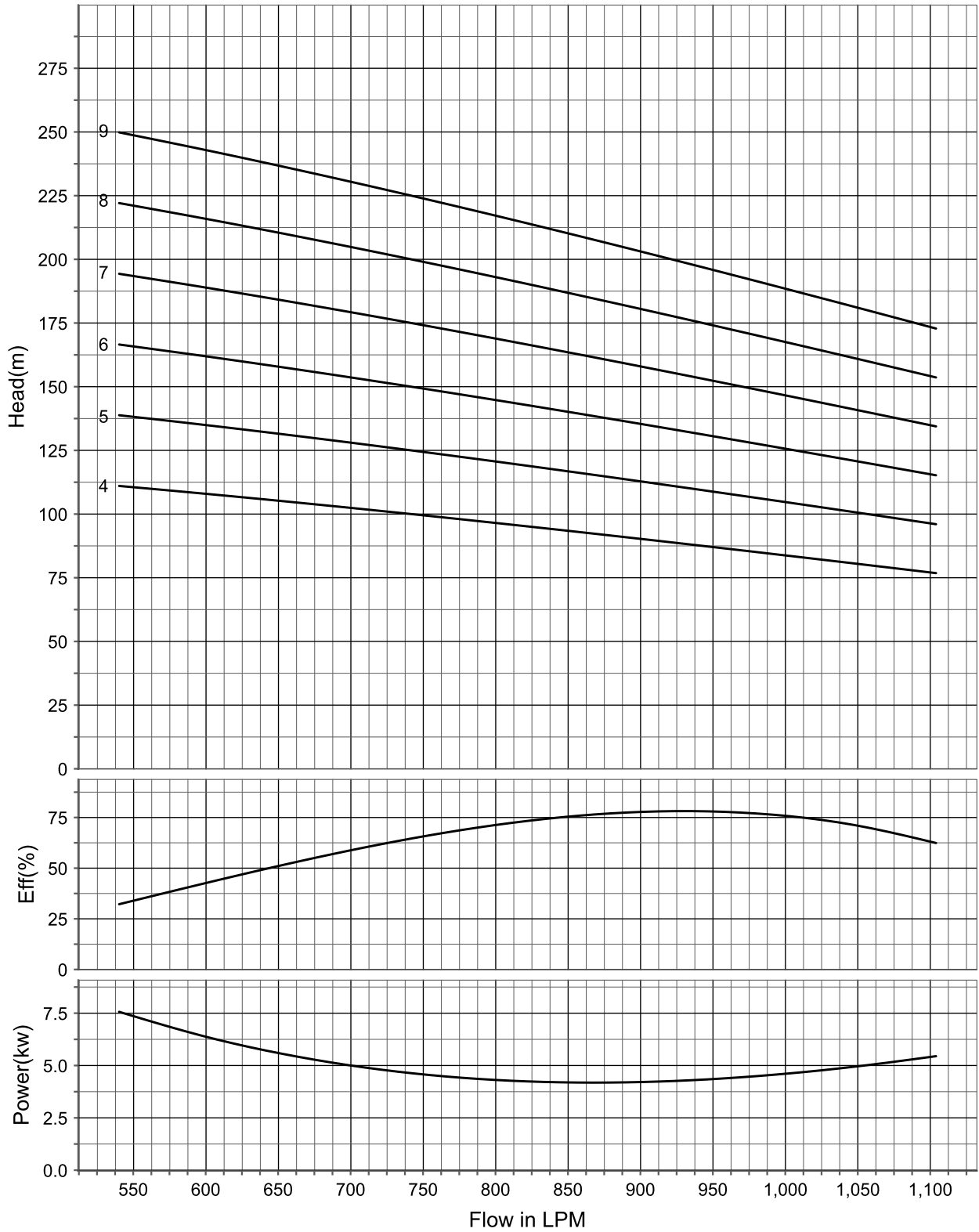
**GA Drawing Dimension • Model: R-83**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-83	30.00	4	1079	629	1708	184	184	40	137	177
R-83	35.00	5	1129	679	1808	184	184	44	149	193
R-83	45.00	6	1209	729	1938	184	184	48	159	207
R-83	55.00	7	1309	779	2088	184	184	52	183	235
R-83	55.00	8	1309	829	2138	184	184	56	183	239
R-83	60.00	9	1359	879	2238	184	184	60	189	249



**Performance Curves • Model: R-83**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 75 mm • Max OD: 188 mm • Min Bore: 200 mm

**Performance Chart • Model: R-84**

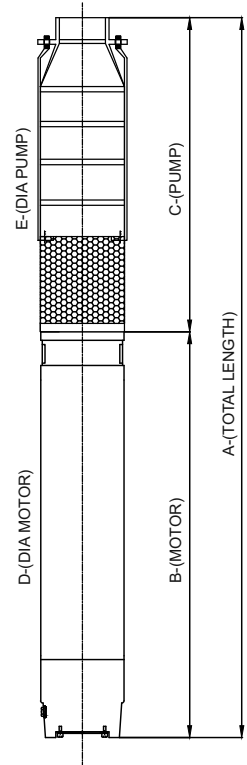
Outlet Size 3" (75 mm)

STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			660	780	900	1020	1140	1200	1260
4	35.0		118	112	108	104	94	85	76
5	45.0		147	141	135	130	118	107	96
6	55.0		176	168	163	156	141	127	115
7	60.0		206	197	190	181	164	148	134

All Dimension are in mm		
<b>A</b>	<b>B</b>	<b>C</b>
±20	±10	±10

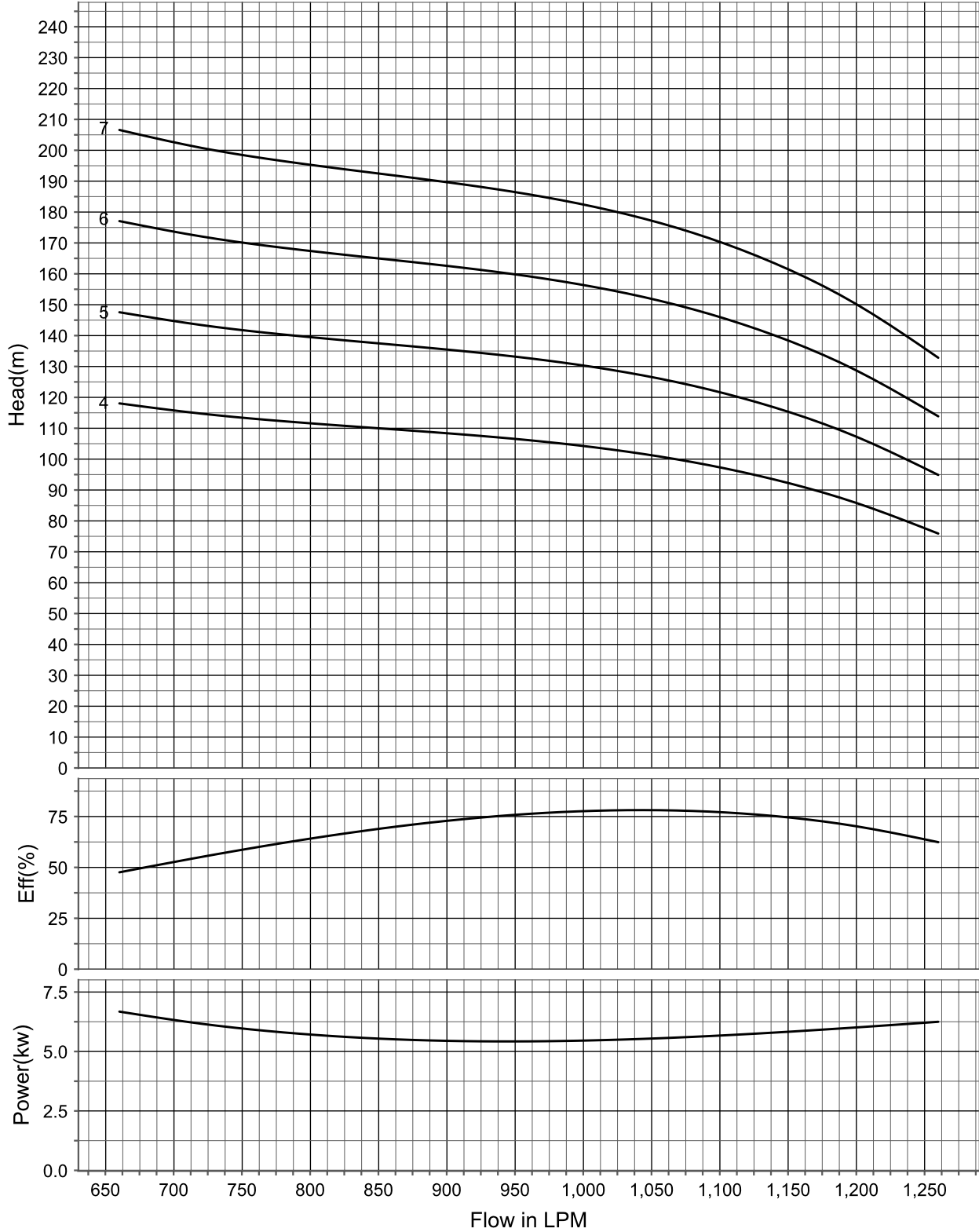
**GA Drawing Dimension • Model: R-84**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
R-84	35.0	4	1129	689	1818	184	184	51	149	200
R-84	45.0	5	1209	754	1963	184	184	55	159	214
R-84	55.0	6	1309	819	2128	184	184	59	183	242
R-84	60.0	7	1359	884	2243	184	184	63	189	252



**Performance Curves • Model: R-84**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 75 mm • Max OD: 188 mm • Min Bore: 200 mm

**Performance Chart • Model: M-80 T**

Outlet Size 4" (100 mm)

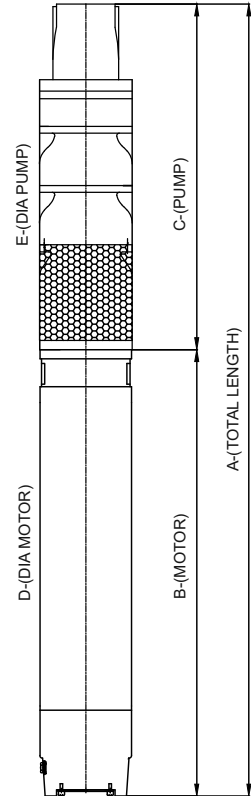
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			420	540	660	750	900	1020	1200
3	20.00		78	73	69	65	56	52	43
4	25.00		104	98	92	86	75	69	58
5	25.00		130	122	115	108	94	86	72
6	35.00		156	147	138	130	112	104	86
7	35.00		181	171	161	151	131	121	101
8	45.00		207	196	184	173	150	138	115
9	55.00		233	220	207	194	168	156	130
10	55.00		259	245	230	216	187	173	144

All Dimension are in mm

A	B	C
±20	±10	±10

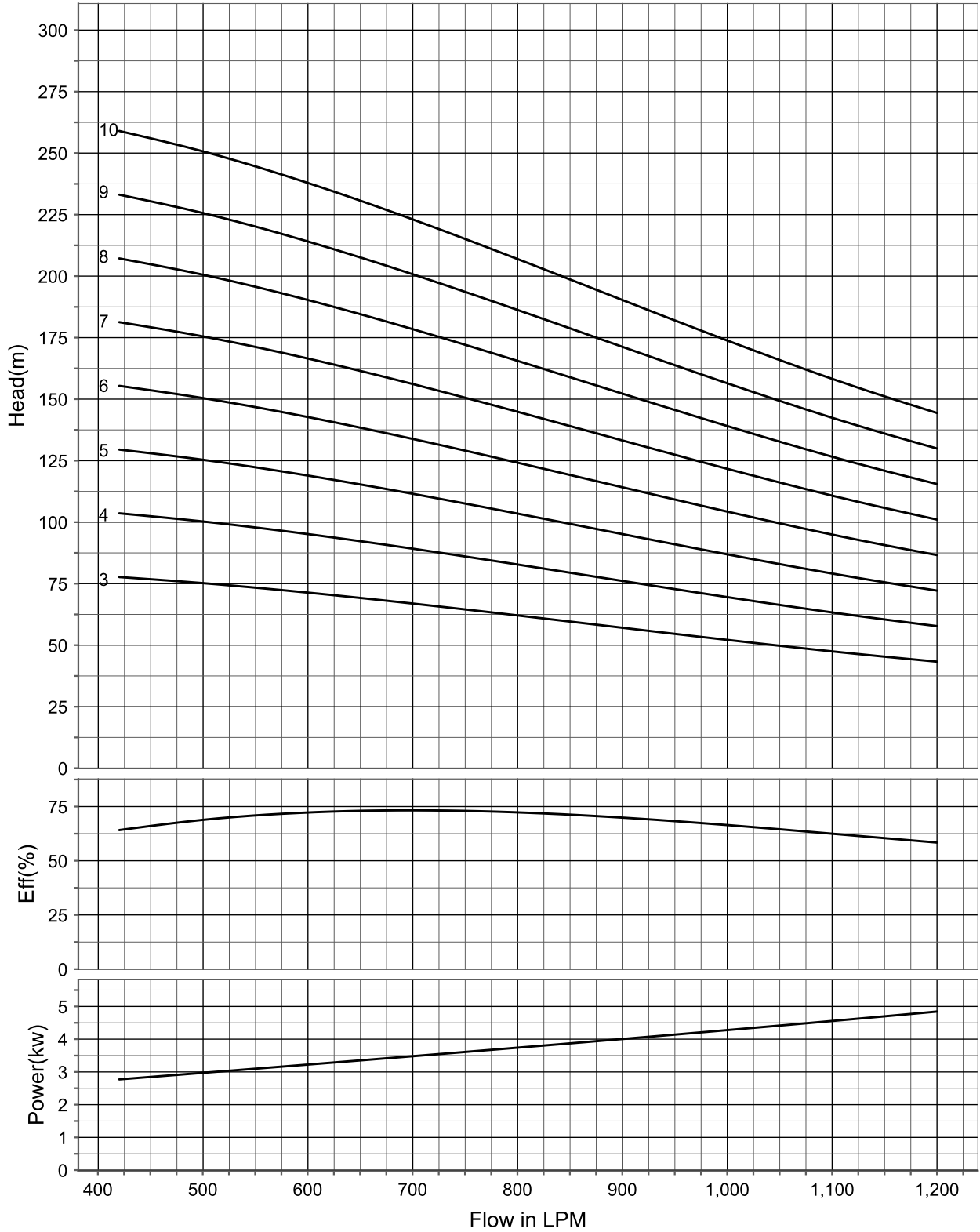
**GA Drawing Dimension • Model: M-80 T**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-80 T	20.00	3	952	776	1728	184	180	50	116	166
M-80 T	25.00	4	982	906	1888	184	180	61	120	181
M-80 T	25.00	5	982	1105	2087	184	180	79	120	199
M-80 T	35.00	6	1129	1235	2364	184	180	89	149	238
M-80 T	35.00	7	1129	1365	2494	184	180	100	149	249
M-80 T	45.00	8	1209	1495	2704	184	180	110	159	269
M-80 T	55.00	9	1309	1625	2934	184	180	120	183	303
M-80 T	55.00	10	1309	1755	3064	184	180	130	183	313



**Performance Curves • Model: M-80 T**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 100 mm • Max OD: 192 mm • Min Bore: 200 mm

**Performance Chart • Model: M-80**

Outlet Size 4" (100 mm)

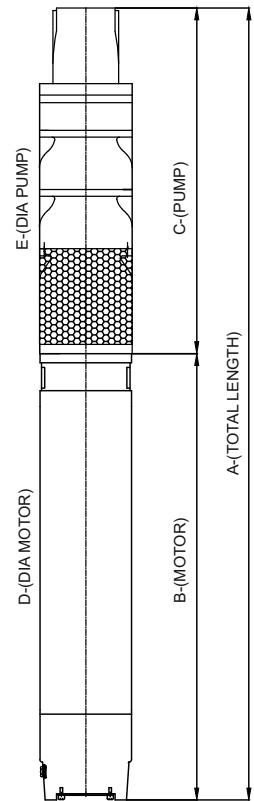
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			660	750	900	1020	1110	1260	1350
3	25.00		82	78	69	65	60	52	43
4	25.00		109	104	92	86	81	69	58
5	35.00		137	130	115	108	101	86	72
6	45.00		164	156	138	130	121	104	86
7	55.00		192	181	161	151	141	121	101
8	55.00		219	207	184	173	161	138	115
9	60.00		246	233	207	194	181	156	130

All Dimension are in mm

A	B	C
±20	±10	±10

**GA Drawing Dimension • Model: M-80**

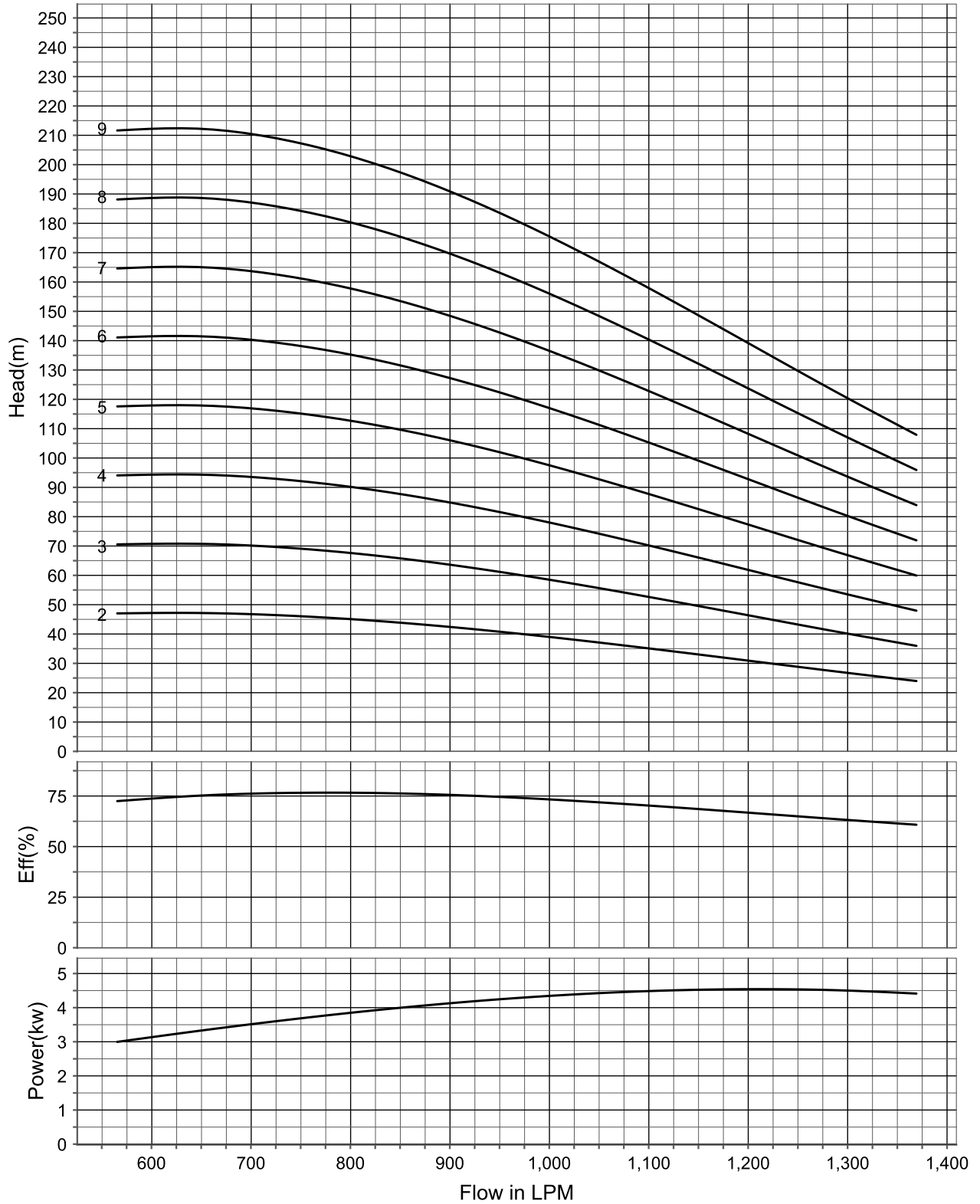
Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-80	25.00	3	982	776	1758	184	180	51	120	171
M-80	25.00	4	982	906	1888	184	180	61	120	181
M-80	35.00	5	1129	1105	2234	184	180	80	149	229
M-80	45.00	6	1209	1235	2444	184	180	90	159	249
M-80	55.00	7	1309	1365	2674	184	180	101	183	284
M-80	55.00	8	1309	1495	2804	184	180	112	183	295
M-80	60.00	9	1359	1625	2984	184	180	122	189	311





**Performance Curves • Model: M-80**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 100 mm • Max OD: 192 mm • Min Bore: 200 mm

**Performance Chart • Model: M-81**

Outlet Size 4" (100 mm)

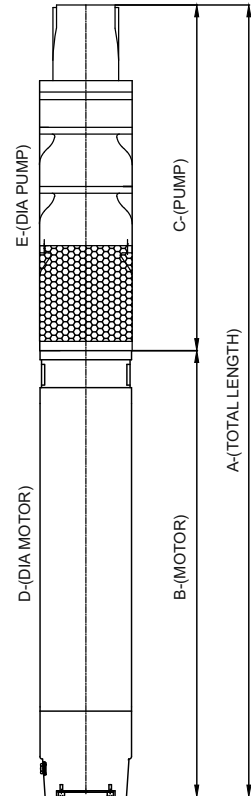
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			750	870	1080	1200	1320	1410	1620
2	20.00		58	55	48	43	37	32	26
3	25.00		86	82	72	65	56	48	39
4	35.00		115	109	95	86	75	63	52
5	45.00		144	137	120	108	94	79	65
6	55.00		173	164	143	130	112	95	78
7	60.00		202	192	167	151	131	111	91

All Dimension are in mm

A	B	C
±20	±10	±10

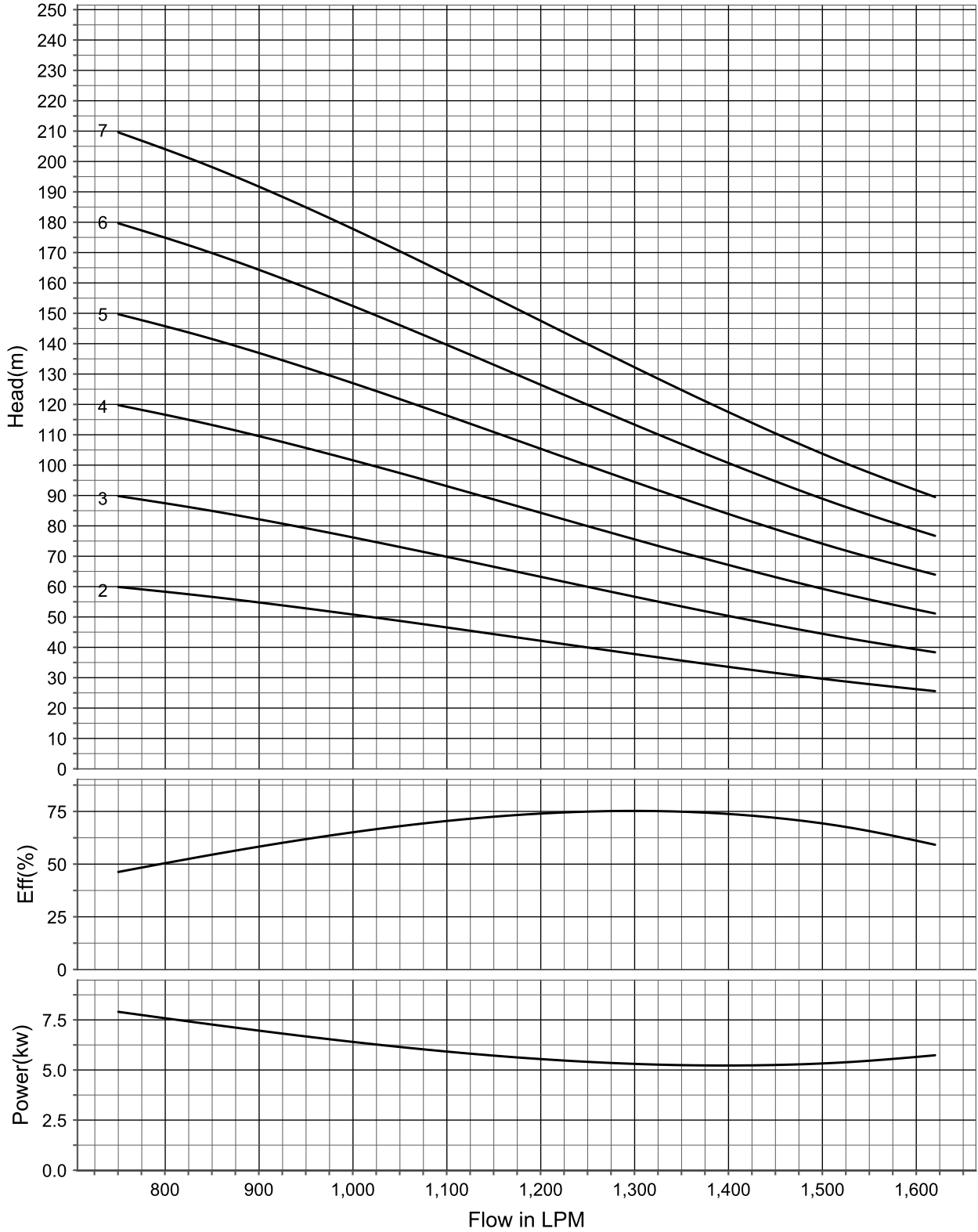
**GA Drawing Dimension • Model: M-81**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-81	20.00	2	952	646	1598	184	180	40	116	156
M-81	25.00	3	982	776	1758	184	180	51	120	171
M-81	35.00	4	1129	906	2035	184	180	62	149	211
M-81	45.00	5	1209	1105	2314	184	180	81	159	240
M-81	55.00	6	1309	1235	2544	184	180	91	183	274
M-81	60.00	7	1359	1365	2724	184	180	102	189	291



**Performance Curves • Model: M-81**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 100 mm • Max OD: 192 mm • Min Bore: 200 mm

**Performance Chart • Model: M-82**

Outlet Size 4" (100 mm)

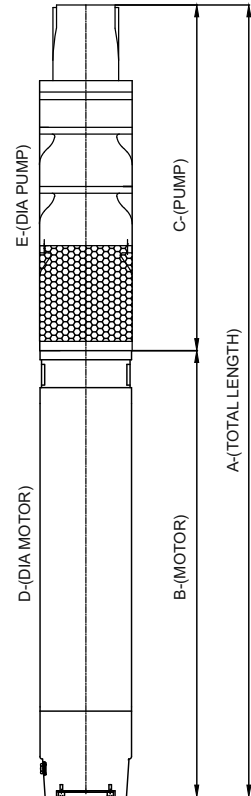
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			720	1080	1350	1440	1680	1800	1920
2	25.00		65	55	48	43	32	26	22
3	35.00		98	82	72	65	48	39	33
4	45.00		130	109	95	86	63	52	43
5	55.00		163	137	120	108	79	65	55
6	60.00		194	164	143	130	95	78	65

All Dimension are in mm

A	B	C
±20	±10	±10

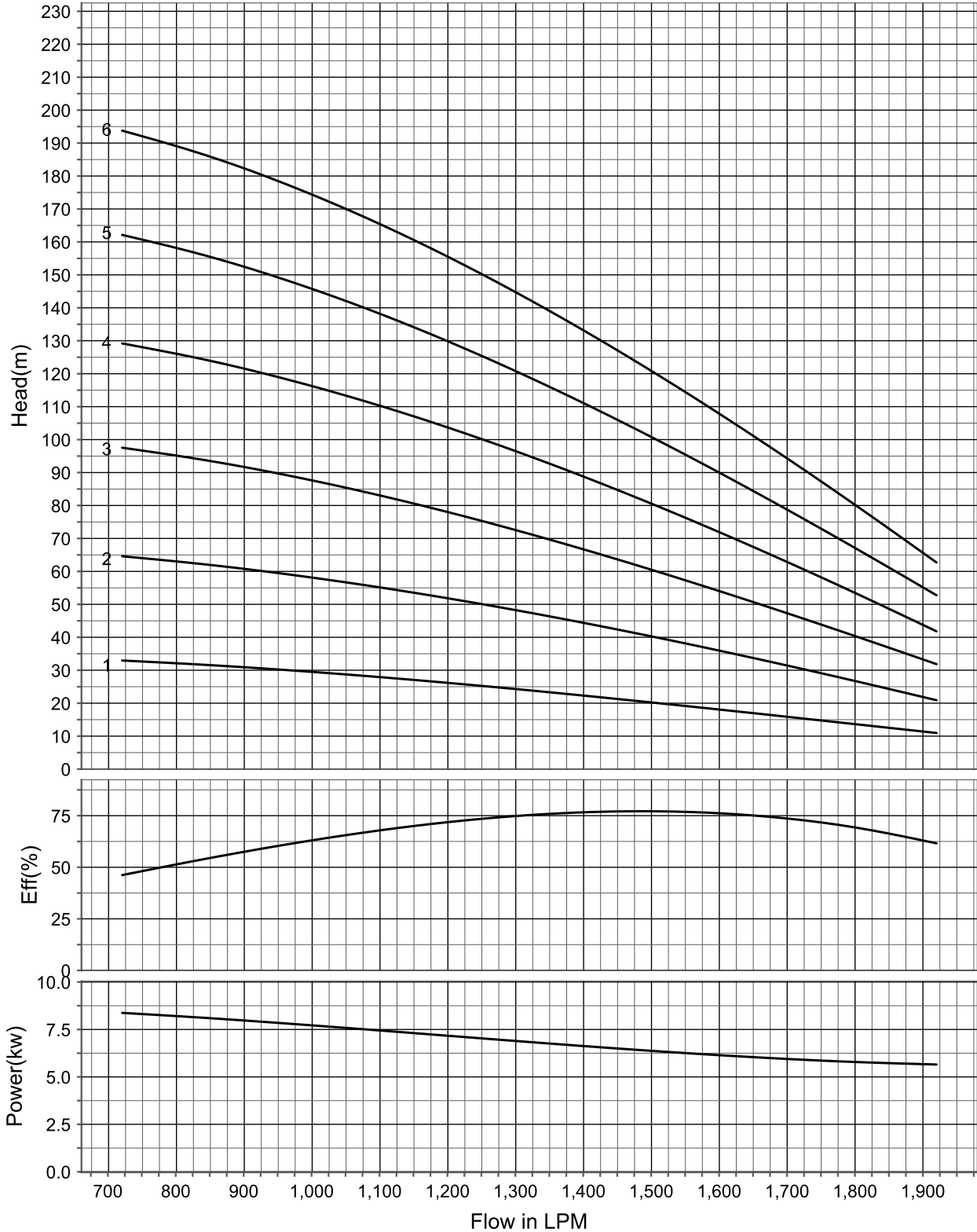
**GA Drawing Dimension • Model: M-82**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-82	25.00	2	982	646	1628	184	180	40	120	160
M-82	35.00	3	1129	776	1905	184	180	51	149	200
M-82	45.00	4	1209	906	2115	184	180	62	159	221
M-82	55.00	5	1309	1105	2414	184	180	51	183	234
M-82	60.00	6	1359	1235	2594	184	180	92	189	281



**Performance Curves • Model: M-82**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 100 mm • Max OD: 192 mm • Min Bore: 200 mm

**Performance Chart • Model: M-84**

Outlet Size 5" (125 mm)

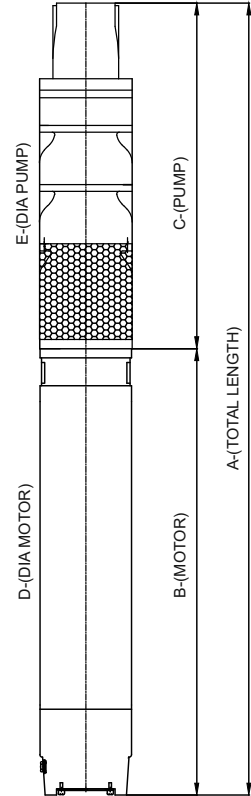
MODEL: M-84		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	1860	2040	2130	2220	2400	2520	2700
2	30.0		43	40	37	35	29	26	20
3	35.0		65	60	56	52	43	39	30
4	55.0		86	81	75	69	58	52	40
5	60.0		108	101	94	86	72	65	50

All Dimension are in mm

A	B	C
±20	±10	±10

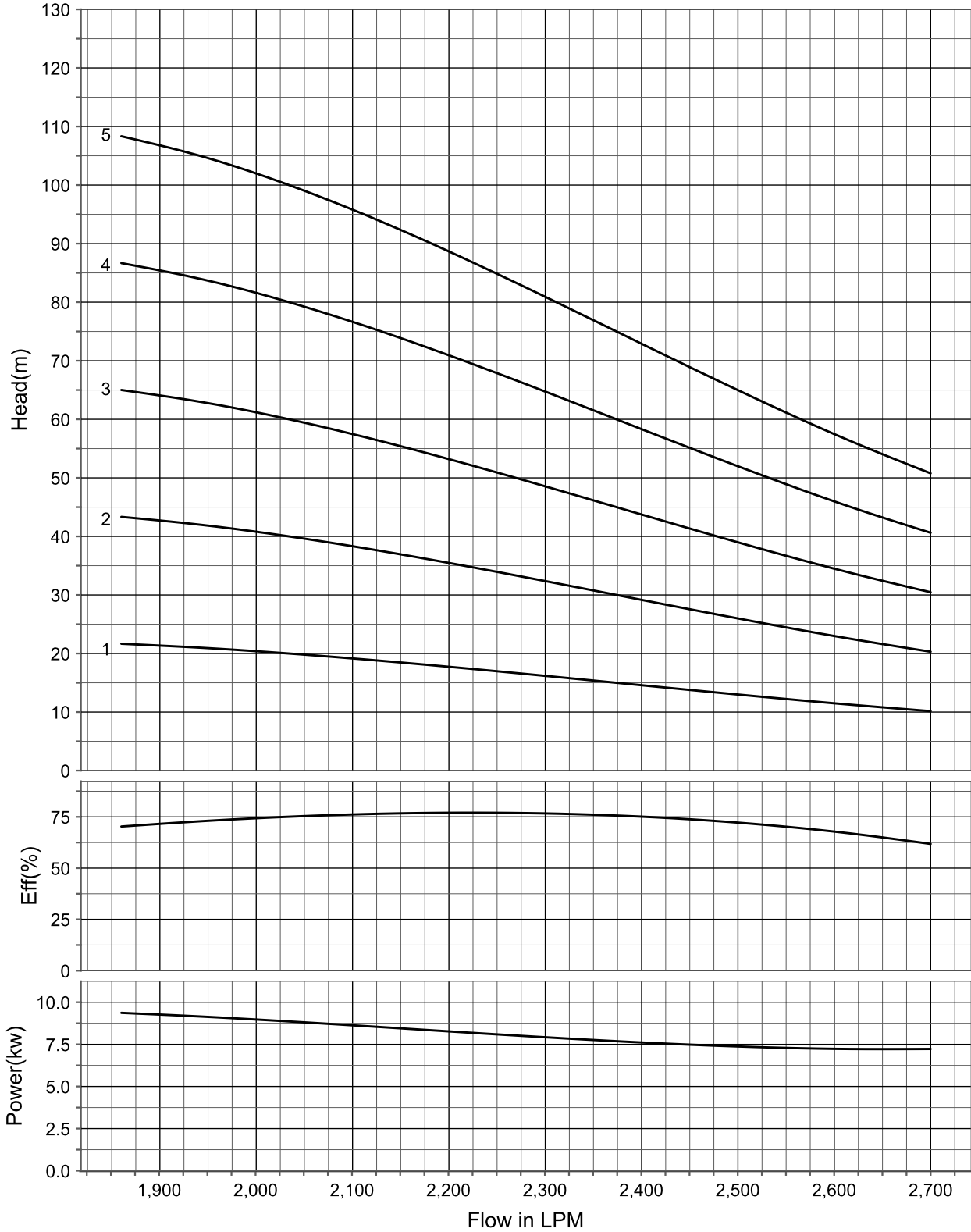
**GA Drawing Dimension • Model: M-84**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-84	30.0	2	1079	646	1725	184	180	50	137	187
M-84	35.0	3	1129	776	1905	184	180	52	149	201
M-84	55.0	4	1309	906	2215	184	180	62	183	245
M-84	60.0	5	1359	1105	2464	184	180	80	189	269



**Performance Curves • Model: M-84**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 125 mm • Max OD: 192 mm • Min Bore: 200 mm

**Performance Chart • Model: M-85**

Outlet Size 5" (125 mm)

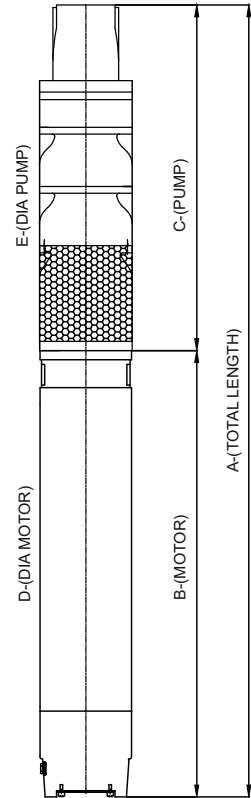
		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	1410	1710	1890	2040	2250	2340	2460
2	30.0		52	49	46	43	40	37	35
3	45.0		78	73	69	65	60	56	52
4	60.0		104	98	92	86	81	75	69

All Dimension are in mm

A	B	C
±20	±10	±10

**GA Drawing Dimension • Model: M-85**

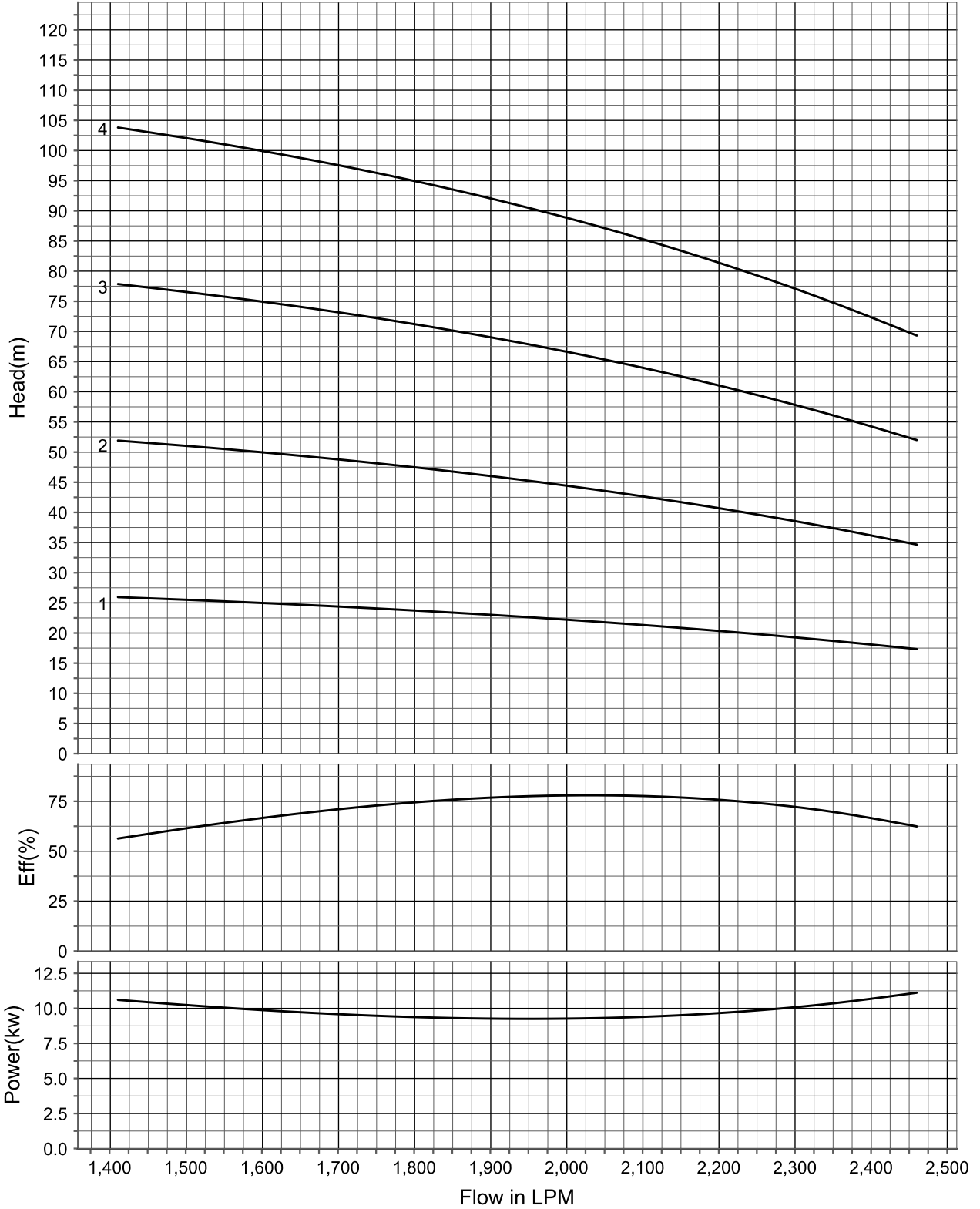
Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-85	30.0	2	1079	646	1725	184	180	50	137	187
M-85	45.0	3	1209	776	1985	184	180	52	159	211
M-85	60.0	4	1359	906	2265	184	180	62	189	251





**Performance Curves • Model: M-85**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 125 mm • Max OD: 192 mm • Min Bore: 200 mm

**Performance Chart • Model: M-86**

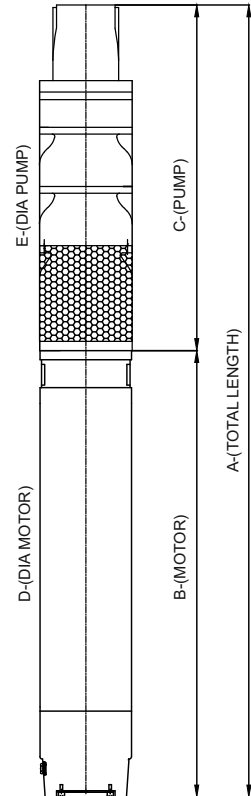
Outlet Size 5" (125 mm)

		DISCHARGE IN LPM							
STG.	H.P.	HEAD IN METERS	1560	1980	2100	2220	2310	2520	2640
2	35.0		55	49	46	43	40	35	32
3	55.0		82	73	69	65	60	52	48

All Dimension are in mm		
<b>A</b>	<b>B</b>	<b>C</b>
±20	±10	±10

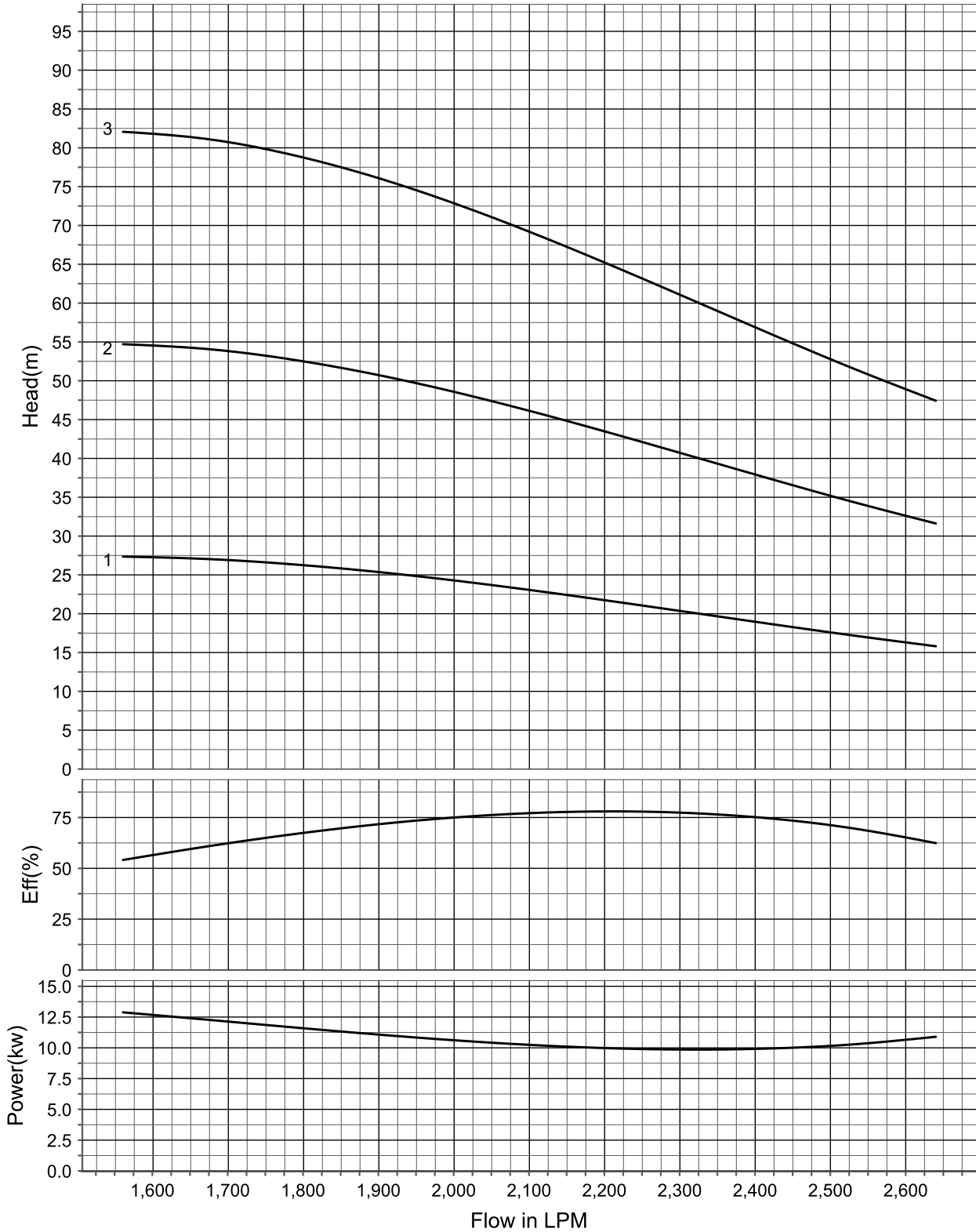
**GA Drawing Dimension • Model: M-86**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-86	35.0	2	1129	646	1775	184	180	42	149	191
M-86	55.0	3	1309	776	2085	184	180	52	183	235



**Performance Curves • Model: M-86**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 125 mm • Max OD: 192 mm • Min Bore: 200 mm

**Performance Chart • Model: M-80 TS**

Outlet Size 4" (100 mm)

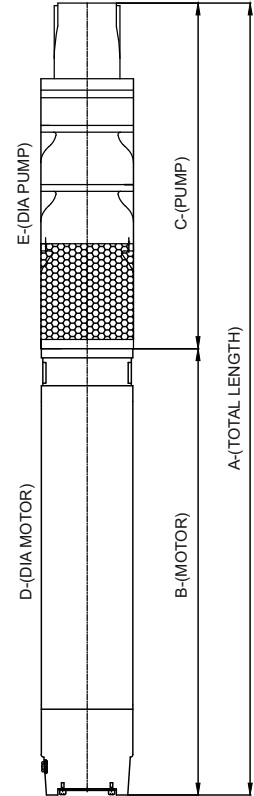
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			480	600	720	870	912	960	1056
3	20.0		68	63	60	56	55	52	48
4	25.0		89	85	81	75	72	69	63
5	25.0		112	107	101	94	91	86	79
6	35.0		134	128	121	112	108	104	95
7	35.0		157	148	141	131	127	121	111
8	45.0		179	170	161	150	144	138	127
9	55.0		202	192	181	168	161	156	143
10	55.0		223	213	202	187	180	173	158

All Dimension are in mm

A	B	C
±20	±10	±10

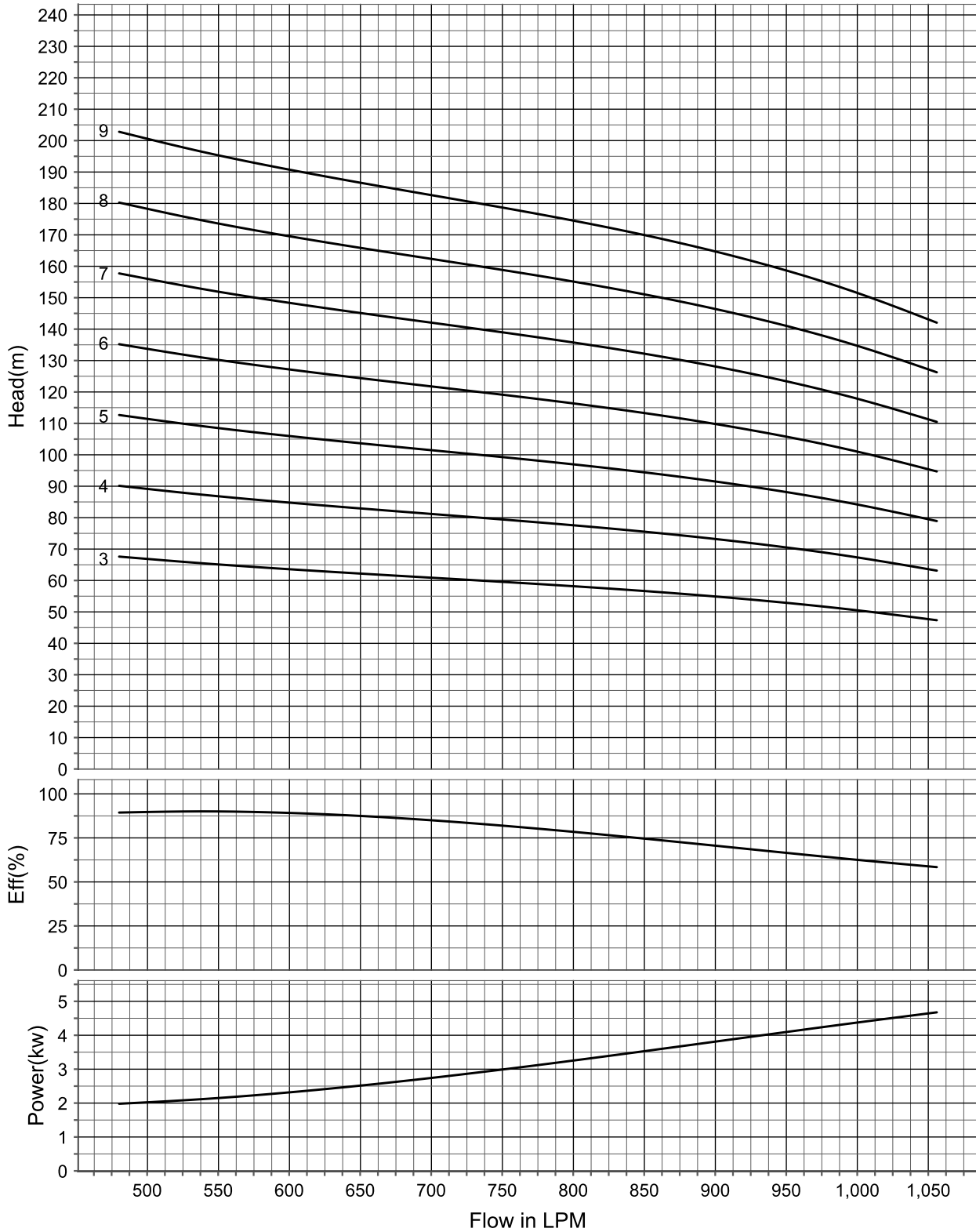
**GA Drawing Dimension • Model: M-80 TS**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-80(T)S	20.0	3	952	739	1691	184	166	43	116	159
M-80(T)S	25.0	4	982	859	1841	184	166	50	120	170
M-80(T)S	25.0	5	982	1032	2014	184	166	62	120	182
M-80(T)S	35.0	6	1129	1152	2281	184	166	69	149	218
M-80(T)S	35.0	7	1129	1272	2401	184	166	76	149	225
M-80(T)S	45.0	8	1209	1392	2601	184	166	83	159	242
M-80(T)S	55.0	9	1309	1512	2821	184	166	90	183	273
M-80(T)S	55.0	10	1309	1632	2941	184	166	98	183	281



**Performance Curves • Model: M-80 TS**

**Speed : 3480.0 RPM, Frequency : 60Hz**



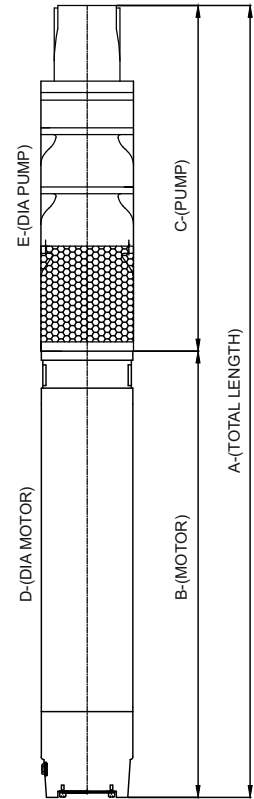
Outlet: 100 mm • Max OD: 188 mm • Min Bore: 200 mm

**Performance Chart • Model: M-80 S**

Outlet Size 4" (100 mm)

STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			780	900	984	1092	1200	1380	1500
3	25.0		71	68	63	60	56	49	43
4	25.0		94	89	85	81	75	65	58
5	35.0		117	112	107	101	94	81	72
6	45.0		141	134	128	121	112	98	86
7	55.0		164	156	150	141	131	121	101
8	55.0		187	179	170	161	150	130	115
9	60.0		210	202	192	181	168	145	130

All Dimension are in mm		
<b>A</b>	<b>B</b>	<b>C</b>
±20	±10	±10

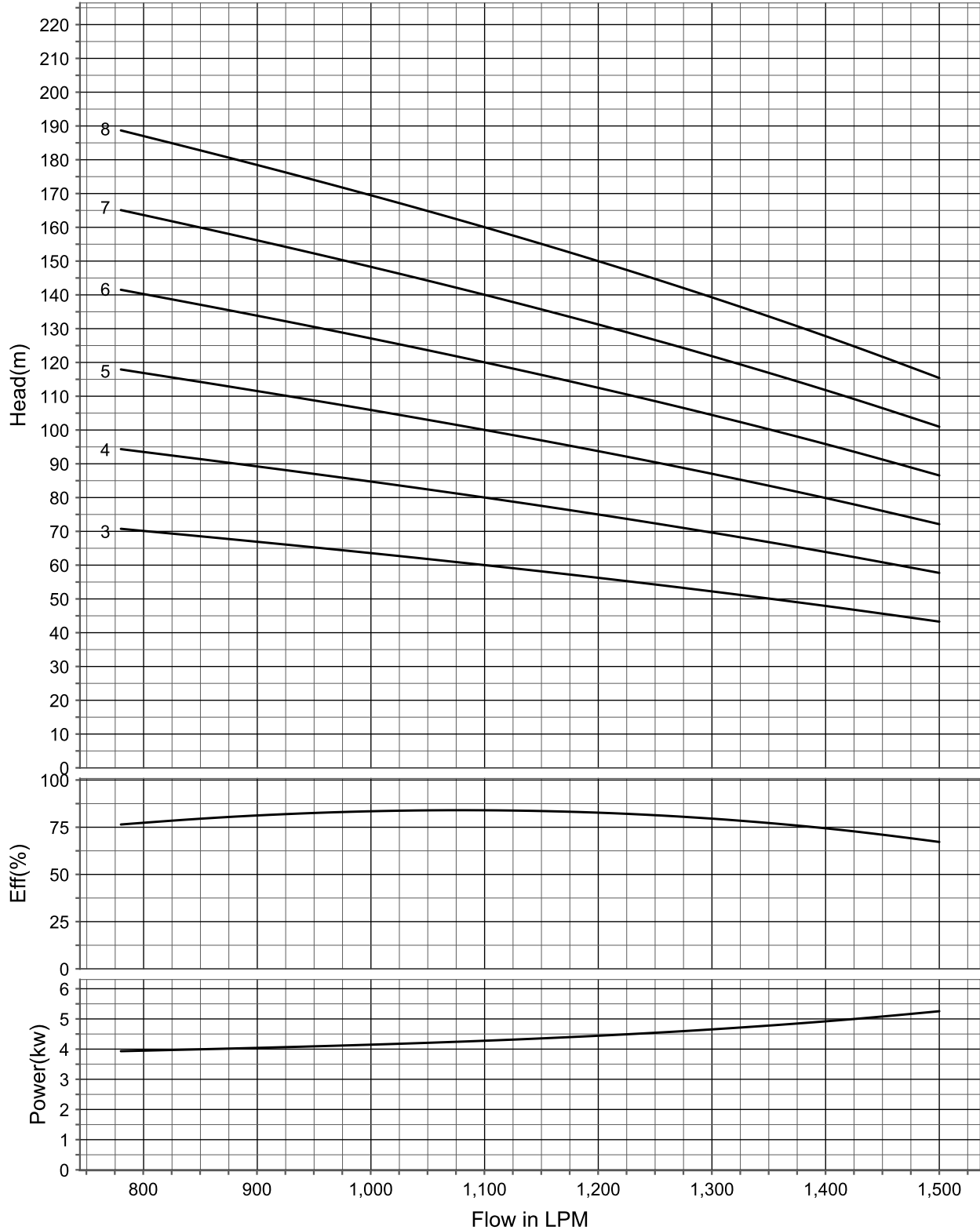


**GA Drawing Dimension • Model: M-80 S**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-80 S	25.0	3	982	739	1721	184	166	43	120	163
M-80 S	25.0	4	982	859	1841	184	166	50	120	170
M-80 S	35.0	5	1129	1032	2161	184	166	62	149	211
M-80 S	45.0	6	1209	1152	2361	184	166	69	159	228
M-80 S	55.0	7	1309	1272	2581	184	166	76	183	259
M-80 S	55.0	8	1309	1392	2701	184	166	83	183	266
M-80 S	60.0	9	1359	1512	2871	184	166	91	189	280

**Performance Curves • Model: M-80 S**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 100 mm • Max OD: 188 mm • Min Bore: 200 mm

**Performance Chart • Model: M-81 S**

Outlet Size 4" (100 mm)

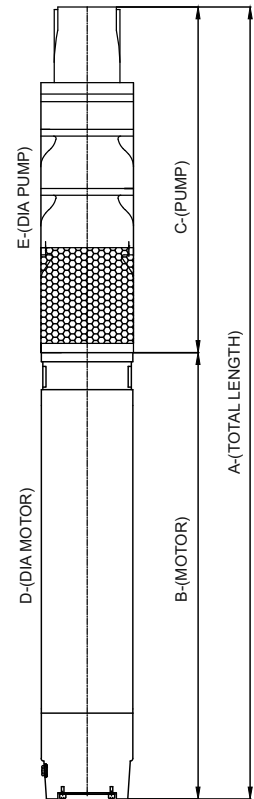
STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			936	1044	1188	1380	1464	1572	1704
2	20.0		49	48	45	40	39	35	29
3	25.0		72	71	66	60	58	52	43
4	35.0		96	94	88	81	76	69	58
5	45.0		121	117	109	101	95	86	72
6	55.0		145	141	132	121	115	104	86
7	60.0		168	164	154	141	134	121	101

All Dimension are in mm

A	B	C
±20	±10	±10

**GA Drawing Dimension • Model: M-81 S**

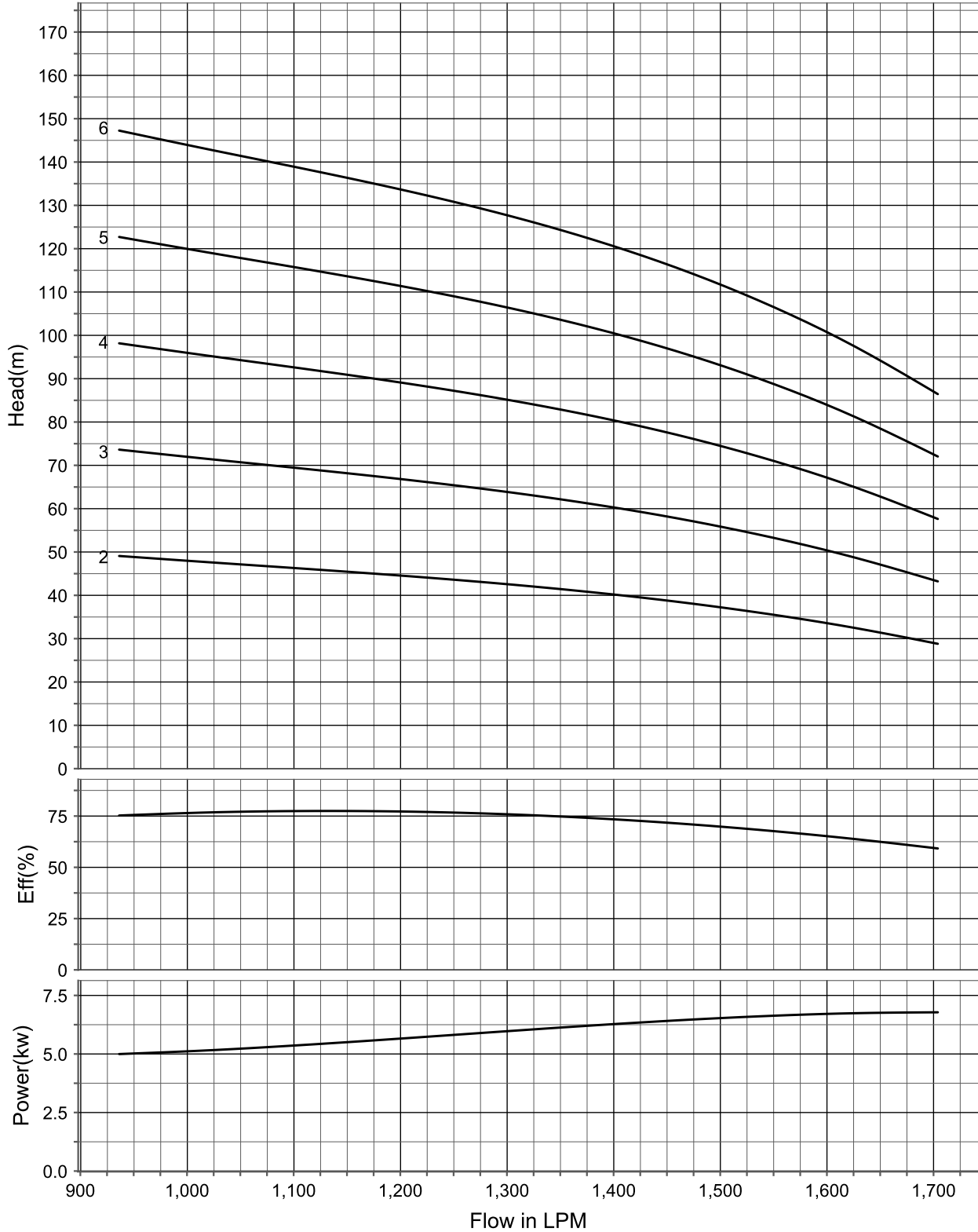
Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-81 S	20.0	2	952	619	1571	184	166	36	95	131
M-81 S	25.0	3	982	739	1721	184	166	43	120	163
M-81 S	35.0	4	1129	859	1988	184	166	51	149	200
M-81 S	45.0	5	1209	1032	2241	184	166	62	159	221
M-81 S	55.0	6	1309	1152	2461	184	166	69	183	252
M-81 S	60.0	7	1359	1272	2631	184	166	76	189	265





**Performance Curves • Model: M-81 S**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 100 mm • Max OD: 188 mm • Min Bore: 200 mm

**Performance Chart • Model: M-82 S**

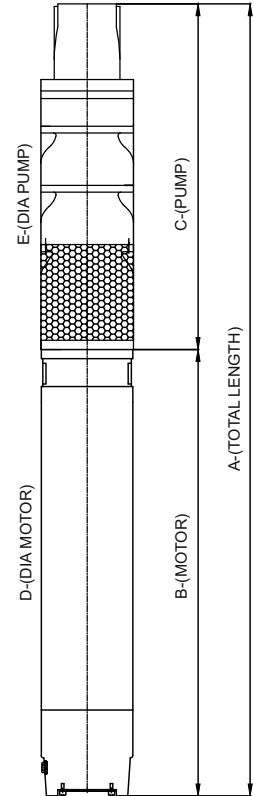
Outlet Size 4" (100 mm)

STG.	H.P.	HEAD IN METERS	DISCHARGE IN LPM						
			1140	1320	1500	1644	1740	1824	1944
2	25.0		49	46	43	40	37	33	29
3	35.0		73	69	65	60	56	50	43
4	45.0		98	92	86	81	75	66	58
5	55.0		122	115	108	101	94	84	73
6	60.0		147	138	130	121	112	99	88

All Dimension are in mm		
<b>A</b>	<b>B</b>	<b>C</b>
±20	±10	±10

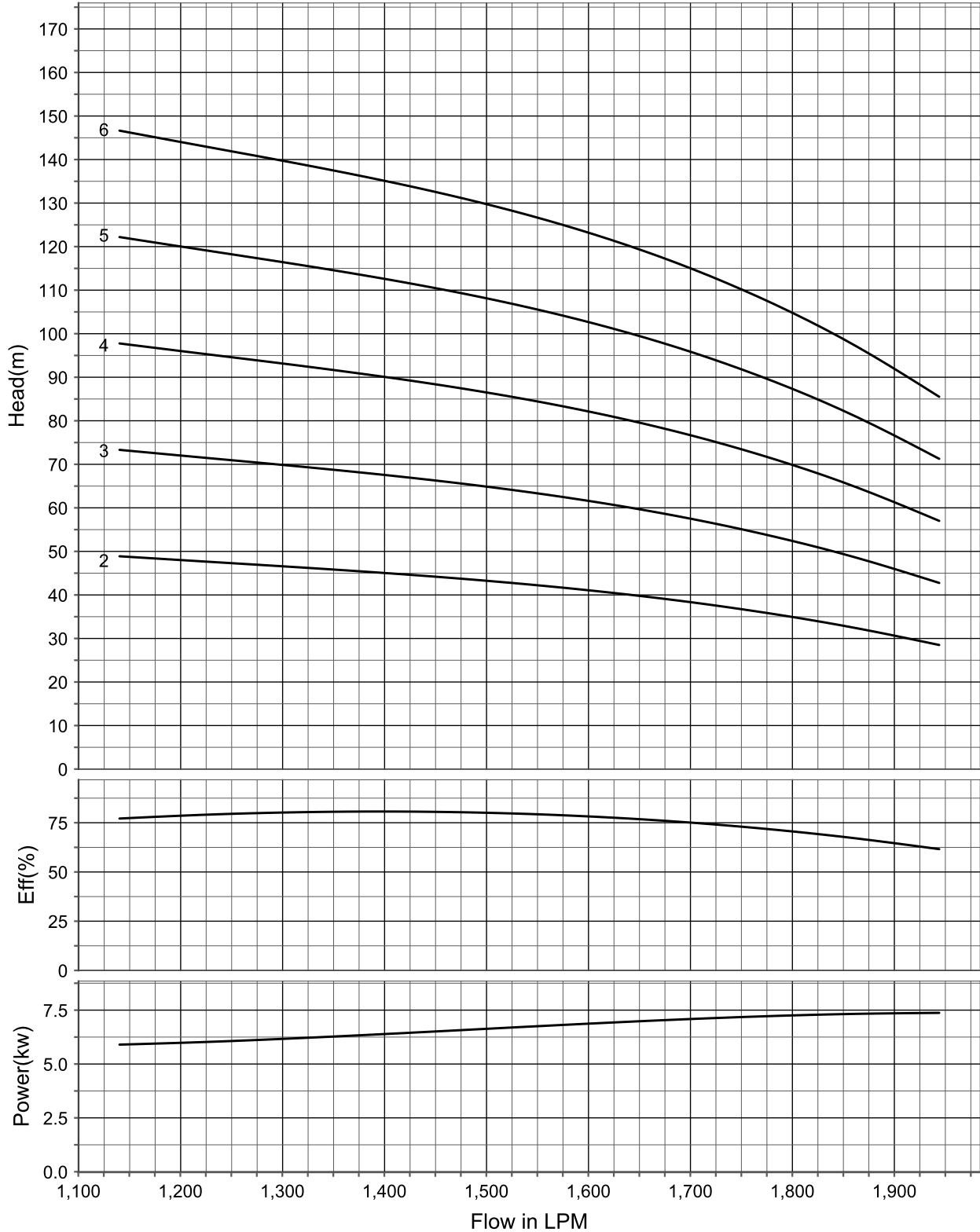
**GA Drawing Dimension • Model: M-82 S**

Type	HP	Stage	B Motor	C Pump	A Total	D Motor Dia	E Pump Dia	Pump Weight	Motor Weight	Total Weight
M-82 S	25.0	2	982	619	1601	184	166	36	120	156
M-82 S	35.0	3	1129	739	1868	184	166	44	149	193
M-82 S	45.0	4	1209	859	2068	184	166	51	159	210
M-82 S	55.0	5	1309	1032	2341	184	166	62	183	245
M-82 S	60.0	6	1359	1152	2511	184	166	70	189	259



**Performance Curves • Model: M-82 S**

**Speed : 3480.0 RPM, Frequency : 60Hz**



Outlet: 100 mm • Max OD: 188 mm • Min Bore: 200 mm



# Agriculture and Domestic solutions



## Submersible Borewell Pumps 75mm to 305mm (3" to 12")

Multistage centrifugal pump made of Graded CI or MOC of your choice for well diameters of 75 mm (3 inches) and above. Pumps available with single-phase and three-phase motor.

Head : 400 meter  
Discharge: upto 400 m<sup>3</sup>/h  
Range : v3, v4, v5, v6, v7, v8, v9, v10, v11, v12  
HP : 1 to 150 HP

## Submersible Monoset Pumps

Open well Submersible pumpsets are specially designed for its robustness and for its applications under the submerged condition. These are used in domestic & irrigation. MBH Pumps is proud to manufacture this product upto 50 HP.

Head : 75 meter  
Capacity: 310 m<sup>3</sup>/h  
HP : upto 50 HP

Single phase & three phase both available.



*Specifications and performance are subject to change without prior notice.*



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