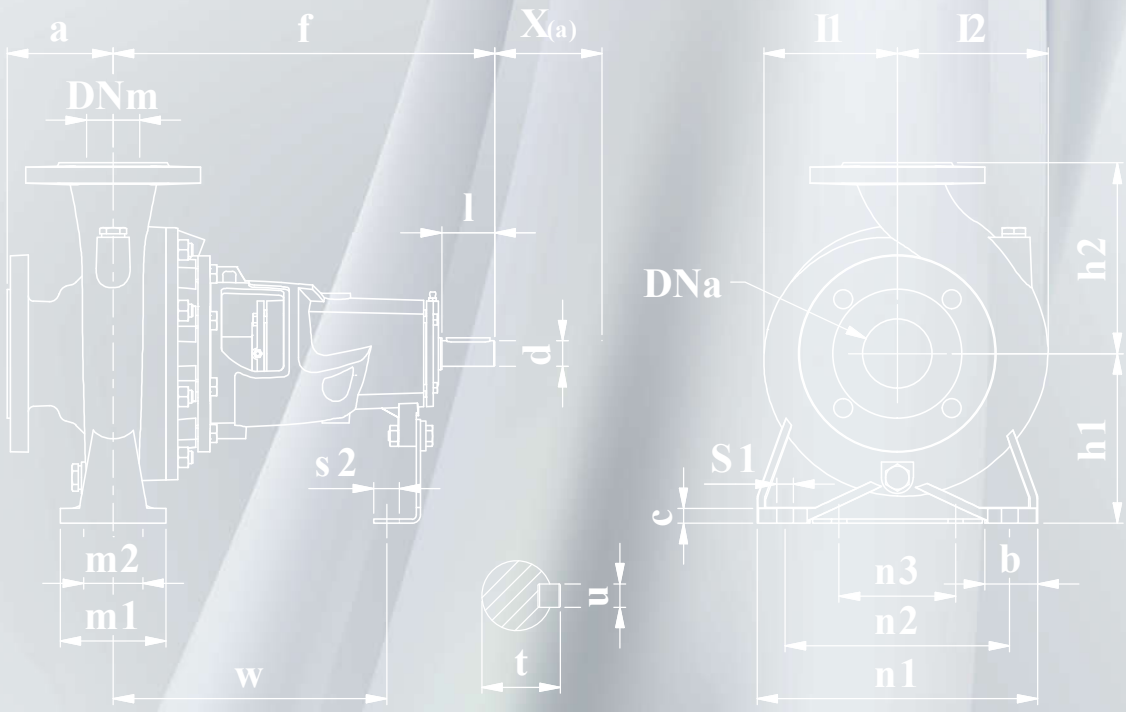
2025
CM - CA
VM - CVE

MARO water pumps



Dimensioni Flange EN 1092-2 PN 10									
DNa - DNm	32	40	50	65	80	100	125	150	200
CF	100	110	125	145	160	180	210	240	295
CE	140	150	165	185	200	220	250	285	340
iF	19	19	19	19	19	19	19	23	23
zF	4	4	4	4	8	8	8	8	8

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CM



CM
30-160kW

DESCRIPTION

- New EN733 standard centrifugal pump
- Original design by MARO
- Both square motor & round motor available
- High efficient motor, with protection IP55 class F
- Pump case with anti-corrosive coating
- Galvanized counter flange with bolts, nuts and gaskets
- Quality NSK bearing, wear resistance mechanical seal

APPLICATIONS

Suitable for use with clean water and liquids that are not chemically aggressive towards the materials from which the pump is made. The EN733 centrifugal pumps are recommended for use in water supply, cleaning sets, pressure boosting, firefighting sets, irrigation, industrial applications, water circulation in climatisation sets, agri cultural.





CM red color apply for Fire protection system

MODEL CODE

For example

CM (m) 32 - 250 A

- A = Motor size
- 250 =Nominal impeller size(mm)
- 32 =Discharge size(mm)
- m=Single phase
- CM =Pump type

USING LIMITS

- Liquid temperature between -10°C and +100°C
- Ambient temperature between -10°C and +50°C
- Max. working pressure 16 bar
- Continuous service S1

TECHNICAL SHEET

Model	CM	
Capacity	0-400	m^3/h
Head	0-151	m
DN	32-125	mm
Speed	2900	rpm
T max	100	°C
Power	0.75-160	kW
Voltage	220/380/400/440	V
HZ	50	
Class	Class F	
IP	IP 55	
Duty	S1 continuous	
Casing	Grey Cast iron	
Impeller	Cast iron/AISI 304/Brass	
Shaft	45# steel/AISI304	
Shaft seal	Mechanical Seal	
Bearing	Grease lubrication rolling bearing	

CM

n ≈ 2900 rpm

Close coupled centrifugal pump

TECHNICAL DATA

50 Hz **n=2900 1/min**

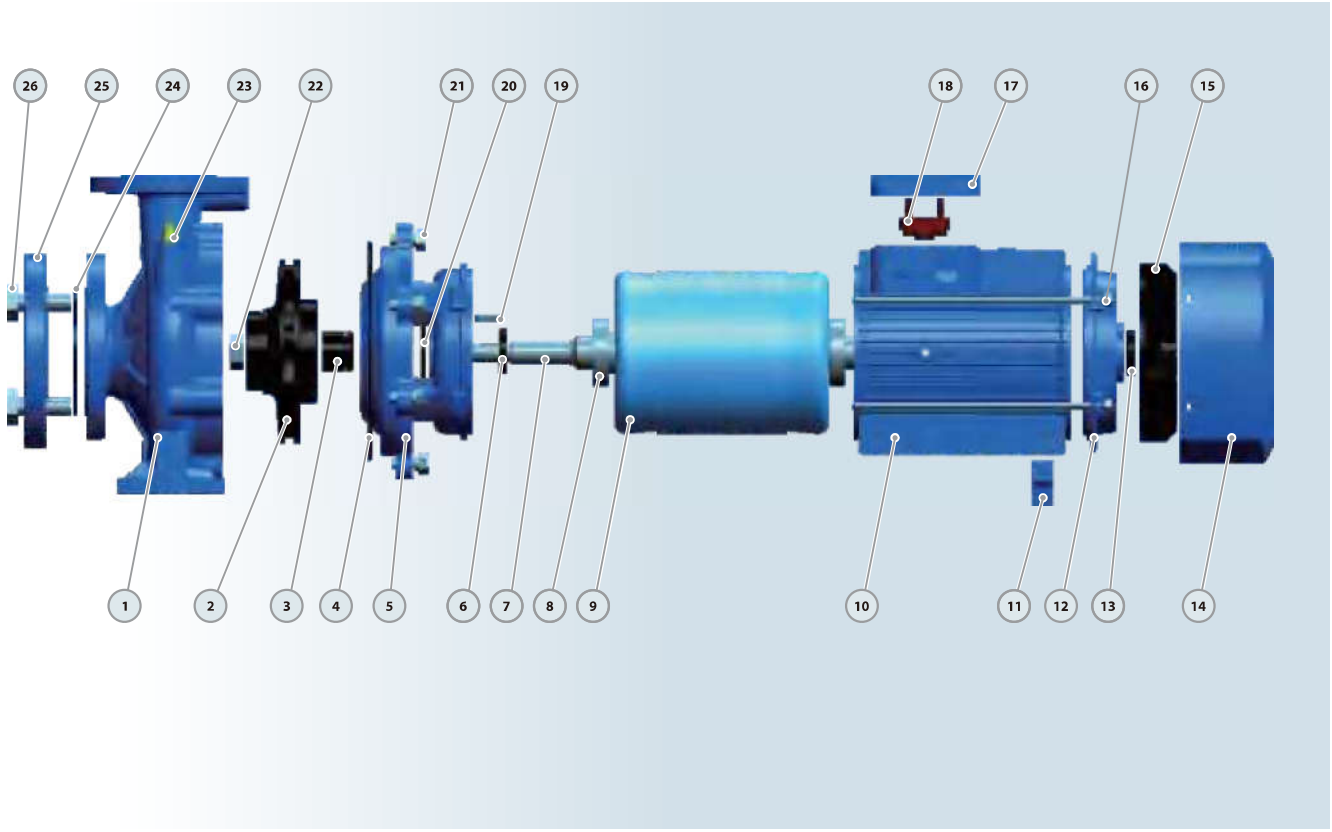
MODEL	DN	Power		Q=DELIVERY															
				us gpm	0	26	40	66	79	106	119	159	185	211	238	317	370	396	476	529	608
				l/min	0	100	150	250	300	400	450	600	700	800	900	1200	1400	1500	1800	2000	2300
				m³/h	0	6	9	15	18	24	27	36	42	48	54	72	84	90	108	120	138
	mm	kw	hp	H=Head (m)																	
CM 32-125B	50x32	0.75	1	17.5	16.7	15	12	9	-	-	-	-	-	-	-	-	-	-	-	-	-
CM 32-125A	50x32	1.1	1.5	22	21	19.7	16.5	14.5	9	-	-	-	-	-	-	-	-	-	-	-	-
CM 32-160C	50x32	1.5	2	25.4	23.7	22.5	18.5	15.8	-	-	-	-	-	-	-	-	-	-	-	-	-
CM 32-160B	50x32	2.2	3	31	29.6	28.5	24.5	22	15	-	-	-	-	-	-	-	-	-	-	-	-
CM 32-160A	50x32	3	4	35	34.3	32.5	28	25.5	19	15	-	-	-	-	-	-	-	-	-	-	-
CM 32-200D	50x32	3	4	44.2	42	39.8	35.2	32.2	24.6	19.8	-	-	-	-	-	-	-	-	-	-	-
CM 32-200C	50x32	4	5.5	54.5	52	50	45.5	42.3	35	30.3	-	-	-	-	-	-	-	-	-	-	-
CM 32-200B	50x32	5.5	7.5	60	59.5	59	55	50.2	34.5	-	-	-	-	-	-	-	-	-	-	-	-
CM 32-200A	50x32	7.5	10	69.5	69	68.5	66	63	53	-	-	-	-	-	-	-	-	-	-	-	-
CM 32-250C	50x32	9.2	12.5	75	75	74.5	72	69	59	-	-	-	-	-	-	-	-	-	-	-	-
CM 32-250B	50x32	11	15	90	89.5	88	82	78	66	-	-	-	-	-	-	-	-	-	-	-	-
CM 32-250A	50x32	15	20	97	96.5	96	90	86	73	-	-	-	-	-	-	-	-	-	-	-	-
CM 32-250BD	50x32	5.5	7.5	79.5	74.7	71.8	63	56	37.5	-	-	-	-	-	-	-	-	-	-	-	-
CM 32-250AD	50x32	7.5	10	95	93	91	83	76	57.8	-	-	-	-	-	-	-	-	-	-	-	-
CM 40-125C	65x40	1.1	1.5	14.7	-	-	-	13	11.5	10.1	5.8	-	-	-	-	-	-	-	-	-	-
CM 40-125B	65x40	1.5	2	18.1	-	-	-	17	15	13.9	10	6	-	-	-	-	-	-	-	-	-
CM 40-125A	65x40	2.2	3	24.5	-	-	-	23.2	21.5	20.2	16	13	8.3	-	-	-	-	-	-	-	-
CM 40-160B	65x40	3	4	31.8	-	-	-	29.5	27.5	26.3	21.5	17.5	-	-	-	-	-	-	-	-	-
CM 40-160A	65x40	4	5.5	38	-	-	-	36	34	33	28.5	25	20.1	-	-	-	-	-	-	-	-
CM 40-200B	65x40	5.5	7.5	46	-	-	-	43.8	41.3	40.1	35	30	-	-	-	-	-	-	-	-	-
CM 40-200A	65x40	7.5	10	57	-	-	-	53.6	51.5	50	45	41	36.5	-	-	-	-	-	-	-	-
CM 40-250C	65x40	9.2	12.5	64	-	-	-	59	56.5	55	49.5	45	39.8	-	-	-	-	-	-	-	-
CM 40-250B	65x40	11	15	72	-	-	-	67.5	65	63.5	57.5	52.2	47	-	-	-	-	-	-	-	-
CM 40-250A	65x40	15	20	84.5	-	-	-	79.3	77.3	75.2	70	66	61	-	-	-	-	-	-	-	-
CM 40-250A1	65x40	18.5	25	90	-	-	-	85.5	82.8	80.7	75.8	70.5	66.5	-	-	-	-	-	-	-	-
CM 50-125C	65x50	2.2	3	17	-	-	-	-	-	-	15.4	14	12.8	11.5	6.5	-	-	-	-	-	-
CM 50-125B	65x50	3	4	20	-	-	-	-	-	-	18.8	18	17	15.6	11	-	-	-	-	-	-
CM 50-125A	65x50	4	5.5	24	-	-	-	-	-	-	23.1	23	21.5	20.3	15.8	11.8	-	-	-	-	-
CM 50-160B	65x50	5.5	7.5	32	-	-	-	-	-	-	30.6	30	28	26.6	20.5	14.8	-	-	-	-	-
CM 50-160A	65x50	7.5	10	40	-	-	-	-	-	-	38	37	36	34.4	29	24	21	-	-	-	-
CM 50-200C	65x50	9.2	12.5	50.5	-	-	-	-	-	-	46.8	45	43	40.9	32.5	26.7	-	-	-	-	-
CM 50-200B	65x50	11	15	57.5	-	-	-	-	-	-	53.5	52	50	47.5	40	34	29	-	-	-	-
CM 50-200A	65x50	15	20	62	-	-	-	-	-	-	58	56.5	54.5	52	44.5	39	35.5	-	-	-	-
CM 50-250C	65x50	15	20	68.5	-	-	-	-	-	-	64	63	61.5	59	50	41	-	-	-	-	-
CM 50-250B	65x50	18.5	25	79	-	-	-	-	-	-	75.8	74.8	74	71.5	63.5	55.5	47	-	-	-	-
CM 50-250A	65x50	22	30	89.5	-	-	-	-	-	-	86	85.3	84	81.5	73.5	63.5	57	-	-	-	-
CM 65-125C	80x65	4	5.5	19	-	-	-	-	-	-	-	-	17.3	16.8	14.5	13	11.8	-	-	-	-
CM 65-125B	80x65	5.5	7.5	23	-	-	-	-	-	-	-	-	21.3	20.9	19	17.5	16.7	13.7	-	-	-
CM 65-125A	80x65	7.5	10	27	-	-	-	-	-	-	-	-	26	25.6	24.5	23	22.5	20	18	-	-
CM 65-160C	80x65	9.2	12.5	33	-	-	-	-	-	-	-	-	-	31.5	30	28	27.1	24	21.5	-	-
CM 65-160B	80x65	11	15	36	-	-	-	-	-	-	-	-	-	34.5	33	31.5	30.8	28	25.5	-	-
CM 65-160A	80x65	15	20	42	-	-	-	-	-	-	-	-	-	41	40	38.5	37.8	35	33	29.5	-
CM 65-200C	80x65	15	20	45	-	-	-	-	-	-	-	-	-	45.5	43	41	40.2	36.5	34	-	-
CM 65-200B	80x65	18.5	25	52	-	-	-	-	-	-	-	-	-	52.3	51	49	48.2	44.5	42	-	-
CM 65-200A	80x65	22	30	59	-	-	-	-	-	-	-	-	-	59.5	58	56	55	52	49.5	44.5	-
CM 65-250C	80x65	22	30	64.8	-	-	-	-	-	-	-	-	-	64.7	62	60	58.5	53	50	-	-
CM 65-250B	80x65	30	40	80	-	-	-	-	-	-	-	-	-	79.8	77.5	75.5	74.5	70	66	58	-
CM 65-250A	80x65	37	50	92	-	-	-	-	-	-	-	-	-	90.5	88.5	87	85	80.5	78	68	-

TECHNICAL DATA

50 Hz **n=2900 1/min**

MODEL	DN	Power		Q=DELIVERY													
				us gpm	0	264	396	529	634	793	881	925	969	1057	1233	1322	1586	1762
				l/min	0	1000	1500	2000	2400	3000	3333	3500	3667	4000	4667	5000	6000	6667
				m³/h	0	60	90	120	144	180	200	210	220	240	280	300	360	400
	mm	kw	hp	H=Head (m)														
CM 65-315D	80x65	45	60	102	98	94.5	90	83	-	-	-	-	-	-	-	-	-	-
CM 65-315C	80x65	55	75	122	120	114.5	110	100	76	-	-	-	-	-	-	-	-	-
CM 65-315B	80x65	75	100	141	141	134.5	130	120	96	78	65.5	-	-	-	-	-	-	-
CM 65-315A	80x65	90	125	151	150	144.5	140	130	106	88	75.5	-	-	-	-	-	-	-
CM 80-125C	100x80	4	5.5	17	15	12.3	7.5	-	-	-	-	-	-	-	-	-	-	-
CM 80-125B	100x80	5.5	7.5	21	19.6	17.4	13.4	9.5	-	-	-	-	-	-	-	-	-	-
CM 80-125A	100x80	7.5	10	26	24.8	23	19.5	16.5	-	-	-	-	-	-	-	-	-	-
CM 80-160D	100x80	11	15	28	27	27.3	24.5	21.1	16	-	-	-	-	-	-	-	-	-
CM 80-160C	100x80	15	20	34	32.6	32.5	30.2	27	22.1	18.5	16.7	-	-	-	-	-	-	-
CM 80-160B	100x80	18.5	25	39	38.5	38	36.7	33.6	28.8	25.3	23.5	-	-	-	-	-	-	-
CM 80-160A	100x80	22	30	44	43.5	43	41.7	38.6	33.8	30.3	28.5	-	-	-	-	-	-	-
CM 80-200C	100x80	22	30	48	47.7	47.5	43.5	39.2	32.5	27.2	24.5	-	-	-	-	-	-	-
CM 80-200B	100x80	30	40	60	59.7	59.5	57	53.1	47	42.7	40.5	-	-	-	-	-	-	-
CM 80-200A	100x80	37	50	71.5	70.9	70.5	65.5	59.3	51	43.2	38.5	-	-	-	-	-	-	-
CM 80-250B	100x80	45	60	88	86.7	86	83.6	78.5	70.5	60	51	-	-	-	-	-	-	-
CM 80-250A	100x80	55	75	94.5	94.5	94.5	91.8	87	79.5	72.1	68.3	-	-	-	-	-	-	-
CM 80-315D	100x80	45	60	85	84	82.6	82	78	68.3	61	56	-	-	-	-	-	-	-
CM 80-315C	100x80	55	75	98	97	95.6	95	91	81.3	74	69	-	-	-	-	-	-	-
CM 80-315B	100x80	75	100	124	123	121.6	121	117	107.3	100	95	90	80.8	-	-	-	-	-
CM 80-315A	100x80	90	125	144	143	141.6	141	137	127.3	120	115	110	100.8	-	-	-	-	-
CM 100-160/C	125x100	15	20	35	33.5	32.5	30	27.8	24.5	21.5	20	18.3	15	-	-	-	-	-
CM 100-160/B	125x100	18.5	25	38.5	37.5	36.5	34.3	32.2	29	25.7	24	22	18	-	-	-	-	-
CM 100-160/A	125x100	22	30	43	41	40	37.6	35.2	31.5	28.5	27	25.3	22	-	-	-	-	-
CM 100-200/C	125x100	22	30	38.5	36.7	35.7	33.8	31.7	28.5	26.8	26	25	22.9	16.3	13	-	-	-
CM 100-200/B	125x100	30	40	44.5	42.5	42	40.2	38.8	36.7	34.2	33	31.7	29	21.7	18	-	-	-
CM 100-200/A	125x100	37	50	55	53	51	50.6	49.2	47	45	44	42.8	40.5	32.8	29	-	-	-
CM 100-250/D	125x100	45	60	65	65	64	63	61	58	56	55	53.3	50	39	33.5	-	-	-
CM 100-250/C	125x100	55	75	77	76	75.5	75	73.8	72	71.7	71.5	70.7	69	62.3	59	-	-	-
CM 100-250/B	125x100	75	100	91	91	90.5	89.7	88	85.5	84	83.3	81.5	78	71.7	68.5	48	-	-
CM 100-250/A	125x100	90	125	100	100	99.5	98.7	97	94.5	93	92.3	90.5	87	80.7	77.5	57	-	-
CM 100-315/D	125x100	75	100	80	-	-	78.5	76.7	74	73	72.8	72.5	70.7	68	64	52	-	-
CM 100-315/C	125x100	90	125	100	-	-	98.5	96.7	94	93	92.8	92.5	90.7	88	84	72	-	-
CM 100-315/B	125x100	110	150	118	-	-	116.5	114.7	112	111	110.8	110.5	108.7	106	102	90	-	-
CM 100-315/A	125x100	132	180	129	-	-	127.5	125.7	123	122	121.8	121.5	119.7	117	112	101	-	-
CM 100-315/A1	125x100	160	220	148	-	-	146.5	144.7	142	141	140.8	140.5	138.7	136	132	120	-	-
CM 125-200/C	150x125	45	60	39.8	-	-	39.3	39.2	39	38.9	38.9	38.8	37.5	35	34	28.6	25	
CM 125-200/B	150x125	55	75	50.5	-	-	49.3	49.2	49	48.9	48.9	48.8	47.5	45	44	38.6	35	
CM 125-200/A	150x125	75	100	61.5	-	-	60.3	60.2	60	59.9	59.9	59.8	58.5	56	55	49.6	46	
CM 125-250/C	150x125	55	75	70	-	-	67	66	64	63	62	61	59.5	54	50.5	-	-	
CM 125-250/B	150x125	75	100	80	-	-	76.5	75.5	74	73	72	71.5	70	67	65	56	-	
CM 125-250/A	150x125	90	125	87	-	-	84	82.5	81	79.5	79	78	77	73.5	71.5	65	60	

MATERIAL DESCRIPTION

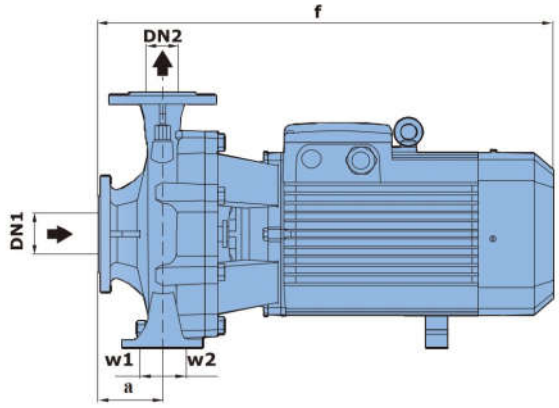


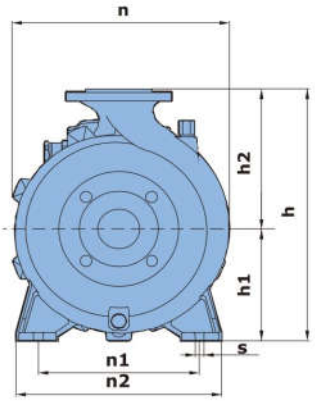
No.	Description	Material
1	Pump Case	Cast iron
2	Impeller	SS304/Cast iron
3	Mechanical Seal	SiC/Carbon/SS304
4	O-ring	Rubber
5	Connection	Cast iron
6	Reinforced Seal	Rubber
7	Shaft	SS304/45# Steel
8	Bearing	Ball Bearing
9	Wound Stator/Rotor	Silicon Steel/Copper

No.	Description	Material
10	Motor Case	Aluminum
11	Support Foot	Plastic
12	Back Cover	Cast iron
13	Reinforced Seal	Rubber
14	Fan Cover	Aluminum
15	Fan	Plastic
16	Through Bolt	Steel
17	Terminal Box	Aluminum
18	Terminal Board	Plastic

No.	Description	Material
19	Impeller Key	Iron
20	Water Deflector	Rubber
21	Connection Bolt	Steel
22	Impeller Nut	Galvanizated Steel
23	Release Valve	Brass
24	Gasket	Rubber
25	Counter Flange	Galvanizated Cast iron
26	Flange Bolt	Steel

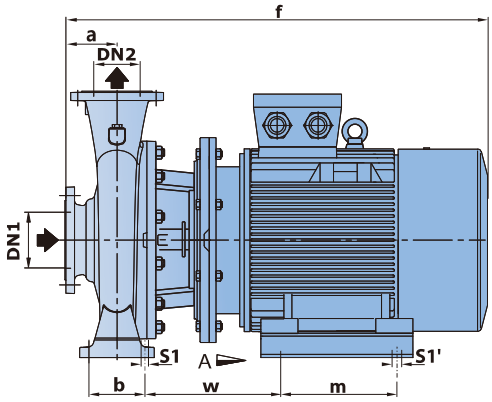
DIMENSIONS AND WEIGHT

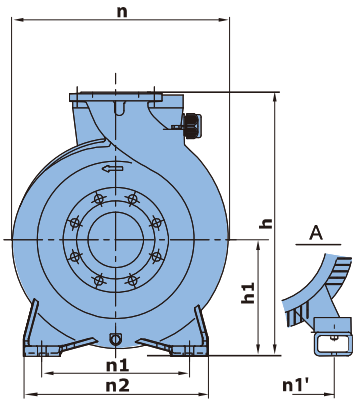




MODEL	DIMENSIONS mm													kg
	DN1	DN2	a	f	h	h1	h2	n	n1	n2	w1	w2	s	~~3~~
CM 32-125B	50	32	80	435	255	114	141	202	140	190	35	35	15	**24**
CM 32-125A														**25**
CM 32-160C			83	435	295	133	162	245	190	245				**34**
CM 32-160B														**39**
CM 32-160A				470										**50**
CM 32-200D			82	490	342	161	181	265	190	240				**52**
CM 32-200C														**53**
CM 32-200B			88	590	405	186	219	333	250	250	49	49	16	**66**
CM 32-200A														**73**
CM 32-250C														**80**
CM 32-250B														**95**
CM 32-250A			94	712	415	186	229	327	250	327				**125**
CM 32-250BD-AD			160	610	362	162	200	330	216	280	37	37	14	**73/80**
CM 40-125C	65	40	82	440	260	116	144	220	160	212			15	**27**
CM 40-125B														**29**
CM 40-125A														**34**
CM 40-160B			80	490	305	135	170	250	190	241				**48**
CM 40-160A														**50**
CM 40-200B-A			102	560	345	162	193	282	214	267				**66/73**
CM 40-250C			94	712	415	186	229	229	229	229	49	49		**100**
CM 40-250B														**116**
CM 40-250A														**146**
CM 40-250A1														**155**
CM 50-125C		50	102	525	305	135	170	263	190	245	37	37		**41**
CM 50-125B														**50**
CM 50-125A														**52**
CM 50-160B-A			110	560	348	164	193	270	212	262				**64/71**
CM 50-200C			104	722	392	186	206	307	232	310				**90**
CM 50-200B														**106**
CM 50-200A			102	720	416	186	230	330	250	327				**145**
CM 50-250C-B-A											49	49		**148/153/183**
CM 65-125C	80	65	104	580	345	162	193	275	212	280				**56**
CM 65-125A-B														**68/74**
CM 65-160C			110	730	425	186	239	330	232	309				**90**
CM 65-160B														**106**
CM 65-160A														**134**
CM 65-200C-B-A			111	740										**140/145/185**
CM 80-125C	100	80	117	750	357	163	194	330	212	280				**56**
CM 80-125A-B														**68/74**
CM 80-160D			88	750	435	186	250	330	255	332				**113**
CM 80-160C-B-A														**143/150/183**
CM 100-160/C-B-A	125	100	130	765	435	186	250	345	262	340	55	55	16	**143/150/183**

DIMENSIONS AND WEIGHT

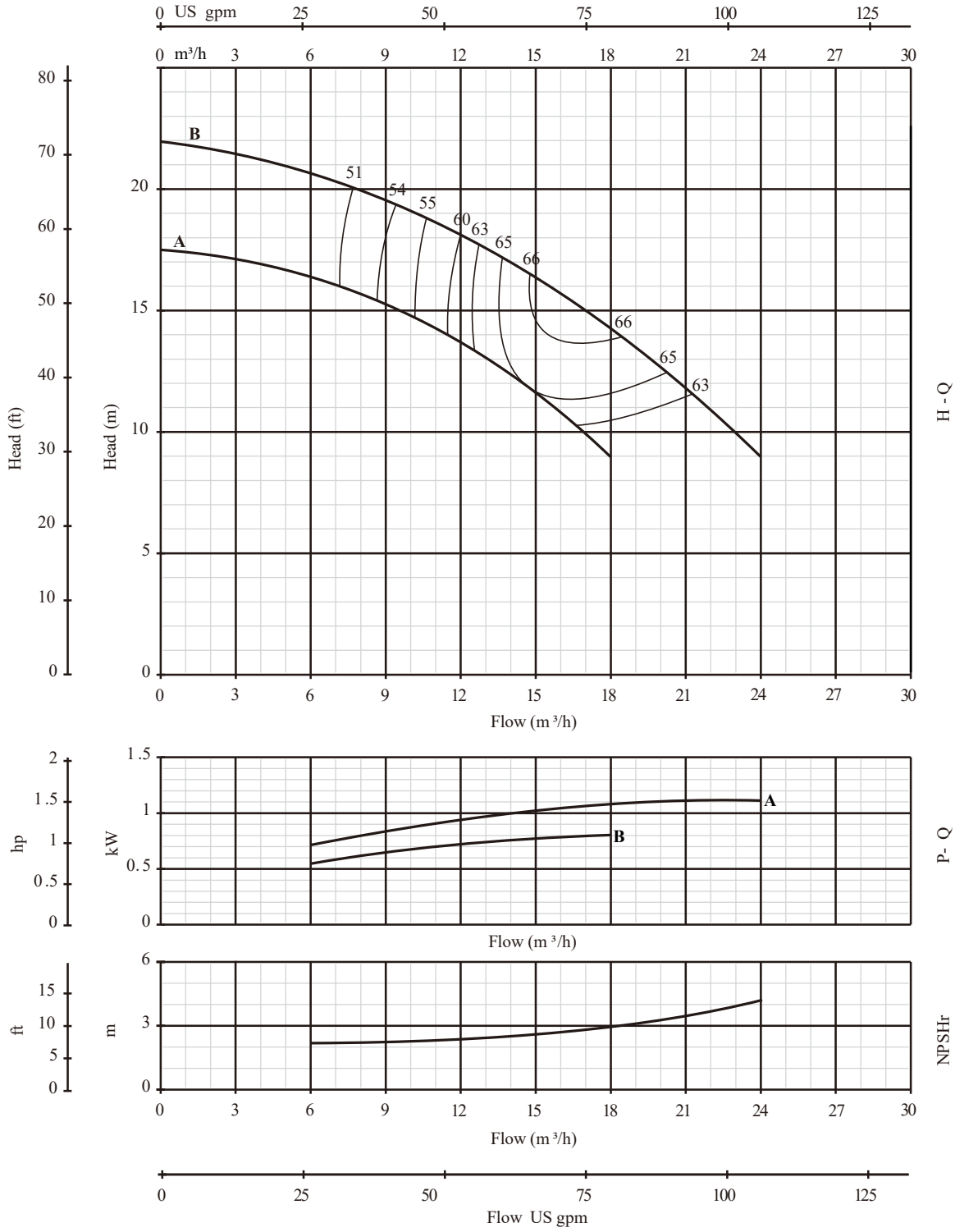




MODEL	DIMENSIONS mm															kg
	DN1	DN2	a	f	h	hl	n	n1	n1'	n2	b	w	m	s1	s1'	3~
CM 65-250C	80	65	116	870	420	180	369	280	279	360	120	237	241	18	15	**214**
CM 65-250B	80	65	116	990	420	180	369	280	318	360	120	278	305	18	18	**265**
CM 65-250A	80	65	116	990	420	180	369	280	318	360	120	278	305	18	18	**285**
CM 65-315D	80	65	125	1069	505	225	440	280	356	360	120	324	311	18	18	**371**
CM 65-315C	80	65	125	1160	505	225	440	280	406	360	120	373	349	18	24	**450**
CM 65-315B	80	65	125	1232	505	225	440	280	457	360	120	395	368	18	24	**582**
CM 65-315A	80	65	125	1283	505	225	440	280	457	360	120	395	419	18	24	**617**
CM 80-200C	100	80	125	880	460	250	360	280	279	345	95	251	241	14	15	**211**
CM 80-200B	100	80	125	950	460	250	360	280	318	345	95	242	305	14	18	**262**
CM 80-200A	100	80	125	950	535	250	410	315	318	400	120	229	305	18	18	**289**
CM 80-250B	100	80	125	980	535	250	410	315	356	400	120	235	311	18	18	**362**
CM 80-250A	100	80	125	1160	535	250	410	315	406	400	120	373	349	18	24	**441**
CM 80-315D	100	80	125	1069	565	250	452	315	356	400	120	324	311	18	18	**381**
CM 80-315C	100	80	125	1160	565	250	452	315	406	400	120	373	349	18	24	**460**
CM 80-315B	100	80	125	1232	565	250	452	315	457	400	120	395	368	18	24	**592**
CM 80-315A	100	80	125	1283	565	250	452	315	457	400	120	395	419	18	24	**627**
CM 100-200C	125	100	125	910	530	225	422	280	279	360	120	268	241	18	15	**216**
CM 100-200B	125	100	125	1025	530	225	422	280	318	360	120	304	305	18	18	**267**
CM 100-200A	125	100	125	1025	530	225	422	280	318	360	120	304	305	18	18	**287**
CM 100-250D	125	100	140	1000	580	250	450	315	356	400	120	240	311	18	18	**366**
CM 100-250C	125	100	140	1180	580	250	450	315	406	400	120	378	349	18	24	**445**
CM 100-250B	125	100	140	1250	580	250	450	315	457	400	120	398	368	18	24	**577**
CM 100-250A	125	100	140	1300	580	250	422	315	457	400	120	397	419	18	24	**612**
CM 100-315D	125	100	140	1262	625	250	480	315	457	400	120	410	368	19	24	**591**
CM 100-315C	125	100	140	1313	625	250	480	315	457	400	120	410	419	19	24	**626**
CM 100-315B	125	100	140	1474	625	250	480	315	508	400	120	436	406	19	28	**972**
CM 100-315A	125	100	140	1584	625	250	480	315	508	400	120	436	457	19	28	**1087**
CM 100-315A1	125	100	140	1584	625	250	480	315	508	400	120	436	508	19	28	**1125**
CM 125-200C	150	125	140	1099	565	250	422	315	356	400	120	339	311	19	18	**378**
CM 125-200B	150	125	140	1190	565	250	422	315	406	400	120	388	349	19	24	**457**
CM 125-200A	150	125	140	1262	565	250	422	315	457	400	120	410	368	19	24	**589**
CM 125-250C	150	125	140	1190	605	250	500	315	406	400	120	388	349	19	24	**457**
CM 125-250B	150	125	140	1262	605	250	500	315	457	400	120	410	368	19	24	**589**
CM 125-250A	150	125	140	1313	605	250	500	315	457	400	120	410	419	19	24	**624**

32-125

2900rpm



PERFORMANCE CURVE

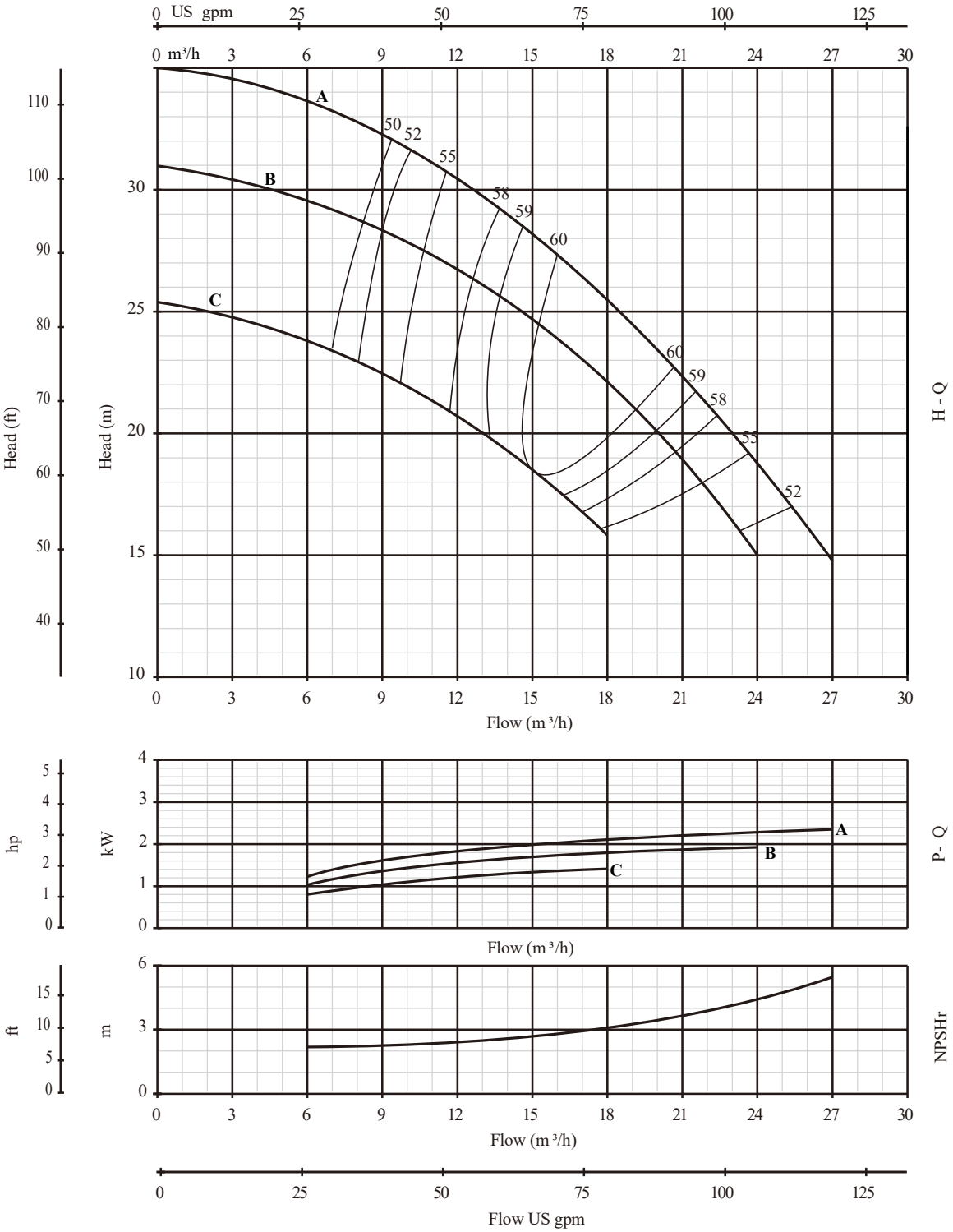
MODEL	DN	Power		Q=DELIVERY					
				us gpm	0	26	40	66	79	106
				l/min	0	100	150	250	300	400
				m³/h	0	6	9	15	18	24
	mm	kw	hp	H=Head (m)						
CM 32-125B	50x32	0.75	1	17.5	16.7	15	12	9	-
CM 32-125A	50x32	1.1	1.5	22	21	19.7	16.5	14.5	9

MARO water pumps

32-160

2900rpm

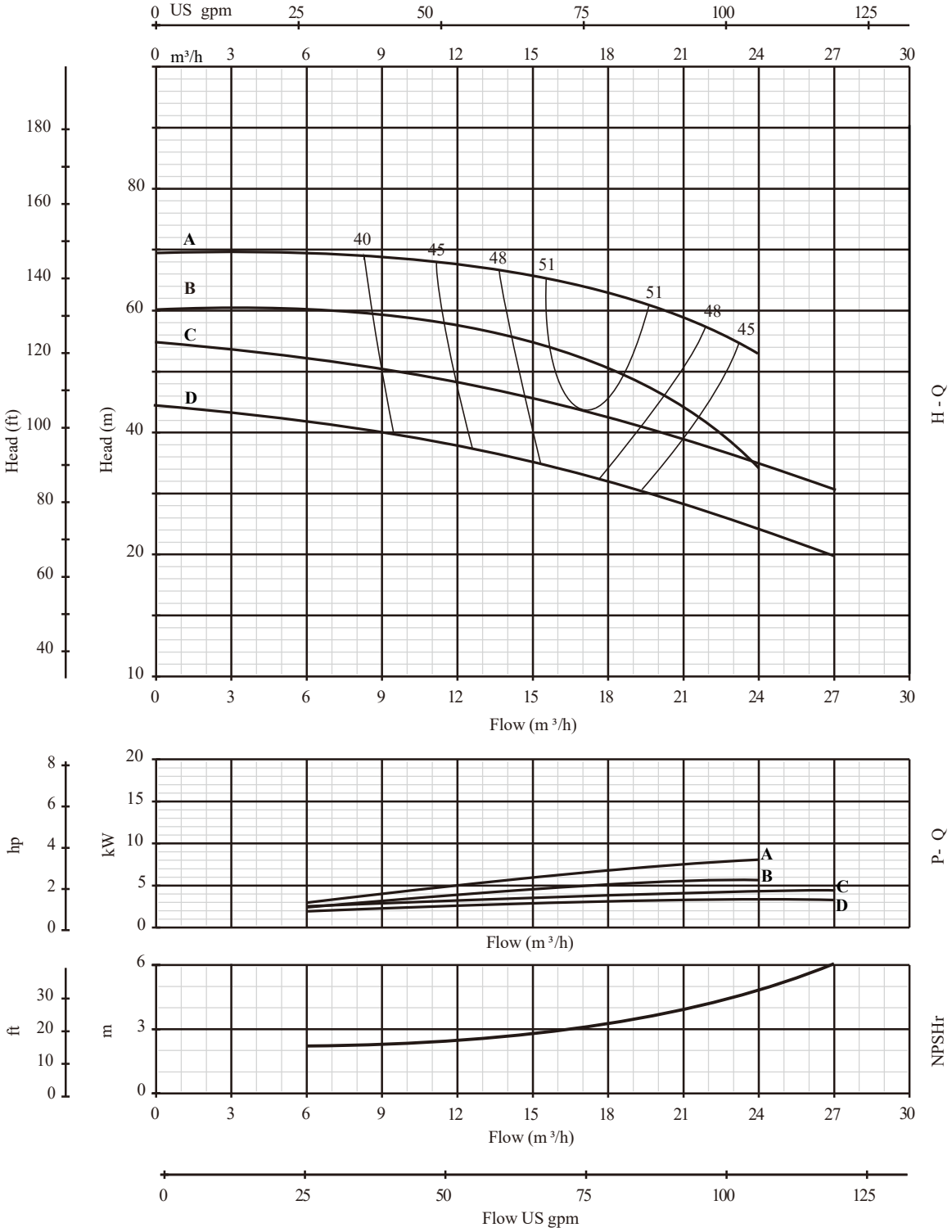
PERFORMANCE CURVE



MODEL	DN	Power		Q=DELIVERY						
				us gpm 0	26	40	66	79	106	119
				l/min 0	100	150	250	300	400	450
	mm	kw	hp	m³/h 0	6	9	15	18	24	27
				H=Head (m)						
CM 32-160C	50x32	1.5	2	25.4	23.7	22.5	18.5	15.8	-	-
CM 32-160B	50x32	2.2	3	31	29.6	28.5	24.5	22	15	-
CM 32-160A	50x32	3	4	35	34.3	32.5	28	25.5	19	15

32-200

2900rpm



PERFORMANCE CURVE

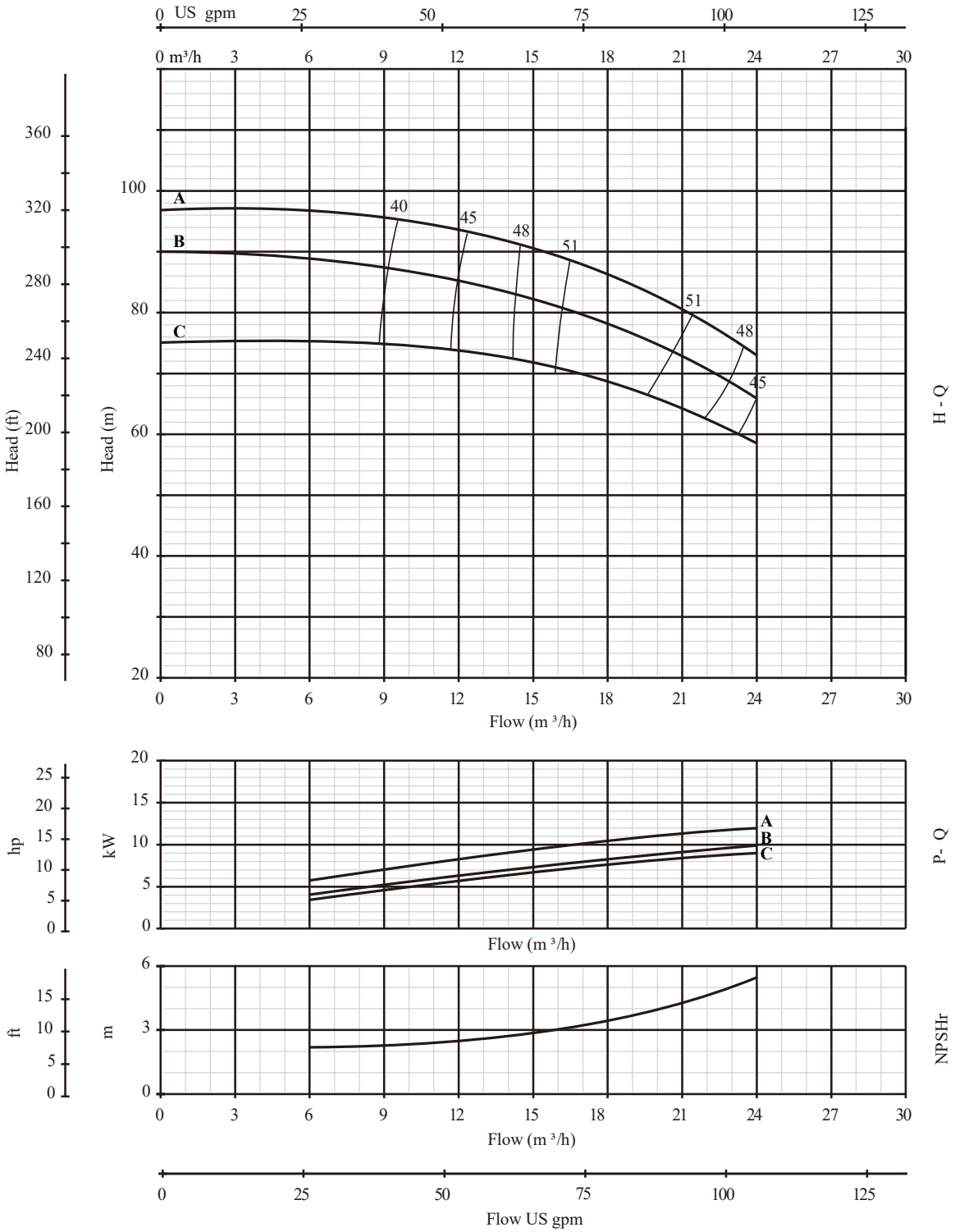
MODEL	DN	Power		Q=DELIVERY us gpm	0	26	40	66	79	106	119
				l/min	0	100	150	250	300	400	450
	mm	kw	hp	m³/h	0	6	9	15	18	24	27
				H=Head (m)							
CM 32-200D	50x32	3	4		44.2	42	39.8	35.2	32.2	24.6	19.8
CM 32-200C	50x32	4	5.5		54.5	52	50	45.5	42.3	35	30.3
CM 32-200B	50x32	5.5	7.5		60	59.5	59	55	50.2	34.5	-
CM 32-200A	50x32	7.5	10		69.5	69	68.5	66	63	53	-

MARO water pumps

32-250

2900rpm

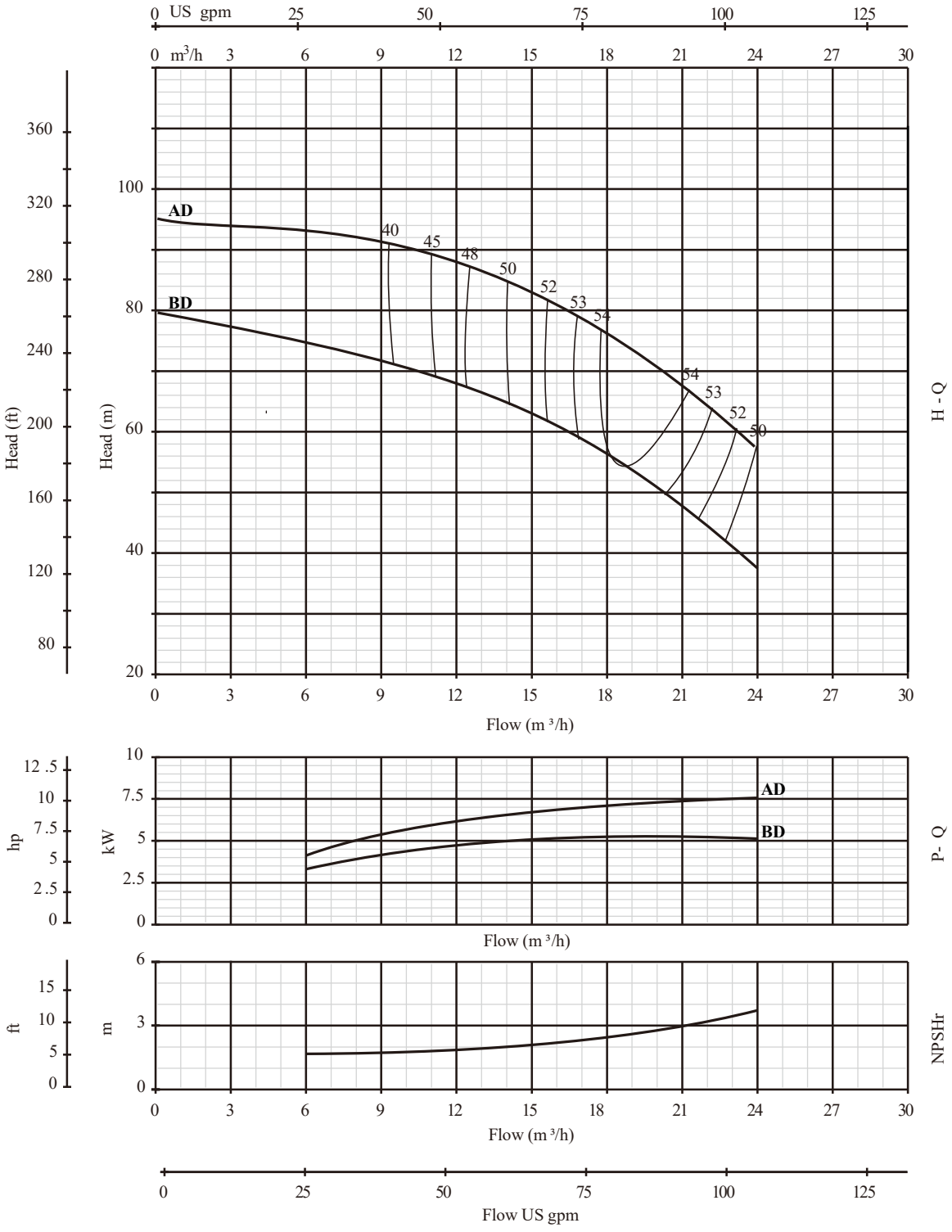
PERFORMANCE CURVE



MODEL	DN	Power		Q=DELIVERY					
				us gpm	0	26	40	66	79	106
				l/min	0	100	150	250	300	400
				m³/h	0	6	9	15	18	24
	mm	kw	hp	H=Head (m)						
CM 32-250C	50x32	9.2	12.5	75	75	74.5	72	69	59
CM 32-250B	50x32	11	15	90	89.5	88	82	78	66
CM 32-250A	50x32	15	20	97	96.5	96	90	86	73

32-250D

2900rpm



PERFORMANCE CURVE

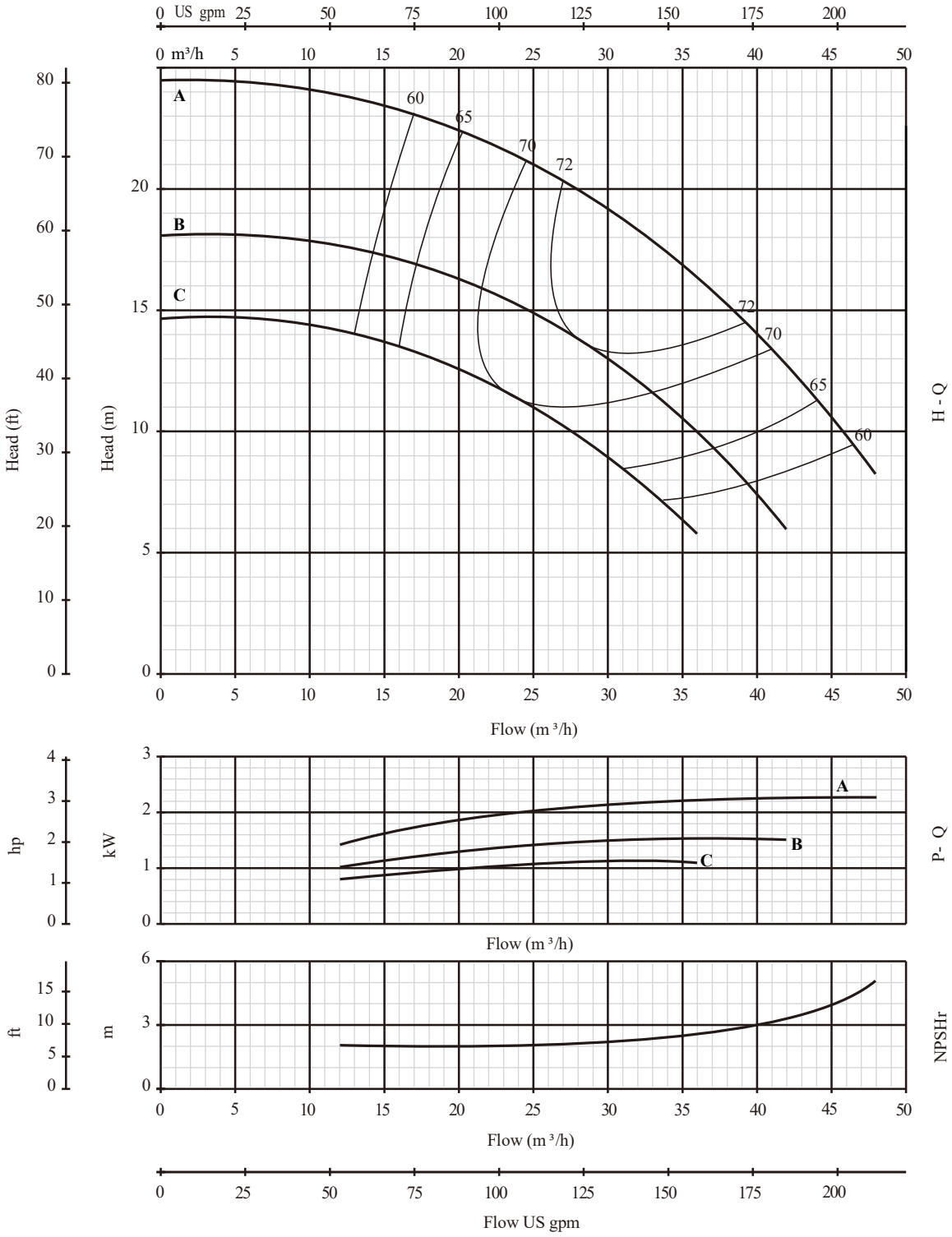
MODEL	DN	Power		us gpm / l/min / m³/h	Q=DELIVERY				
				0	26	40	66	79	106
				0	100	150	250	300	400
				0	6	9	15	18	24
	mm	kw	hp	H=Head (m)					
CM 32-250BD	50x32	5.5	7.5	79.5	74.7	71.8	63	56	37.5
CM 32-250AD	50x32	7.5	10	95	93	91	83	76	57.8

MARO water pumps

40-125

2900rpm

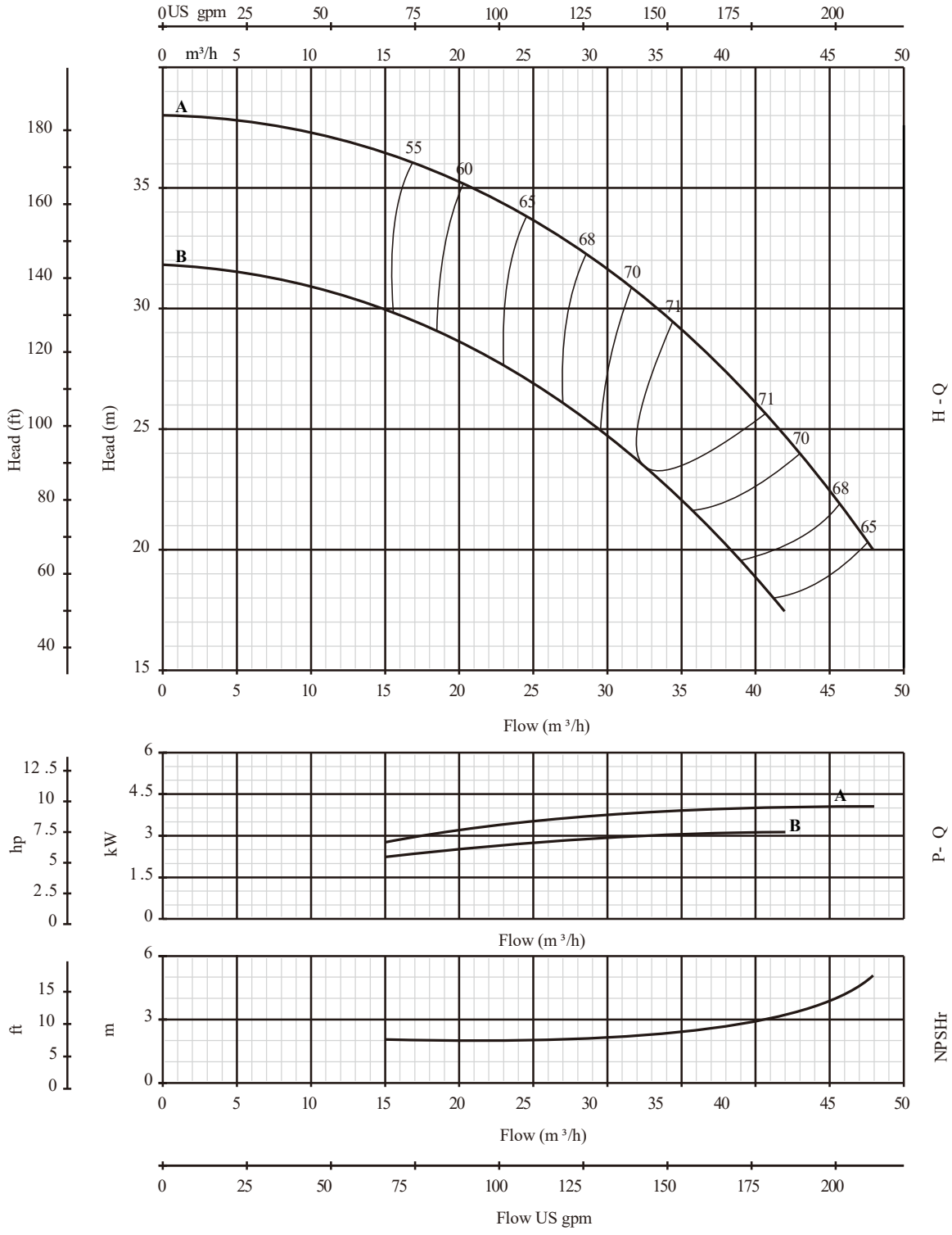
PERFORMANCE CURVE



MODEL	DN	Power		Q=DELIVERY						
				us gpm 0	79	106	119	159	185	211
				l/min 0	300	400	450	600	700	800
				m³/h 0	18	24	27	36	42	48
	mm	kw	hp	H=Head (m)						
CM 40-125C	65x40	1.1	1.5	14.7	13	11.5	10.1	5.8	-	-
CM 40-125B	65x40	1.5	2	18.1	17	15	13.9	10	6	-
CM 40-125A	65x40	2.2	3	24.5	23.2	21.5	20.2	16	13	8.3

40-160

2900rpm



PERFORMANCE CURVE

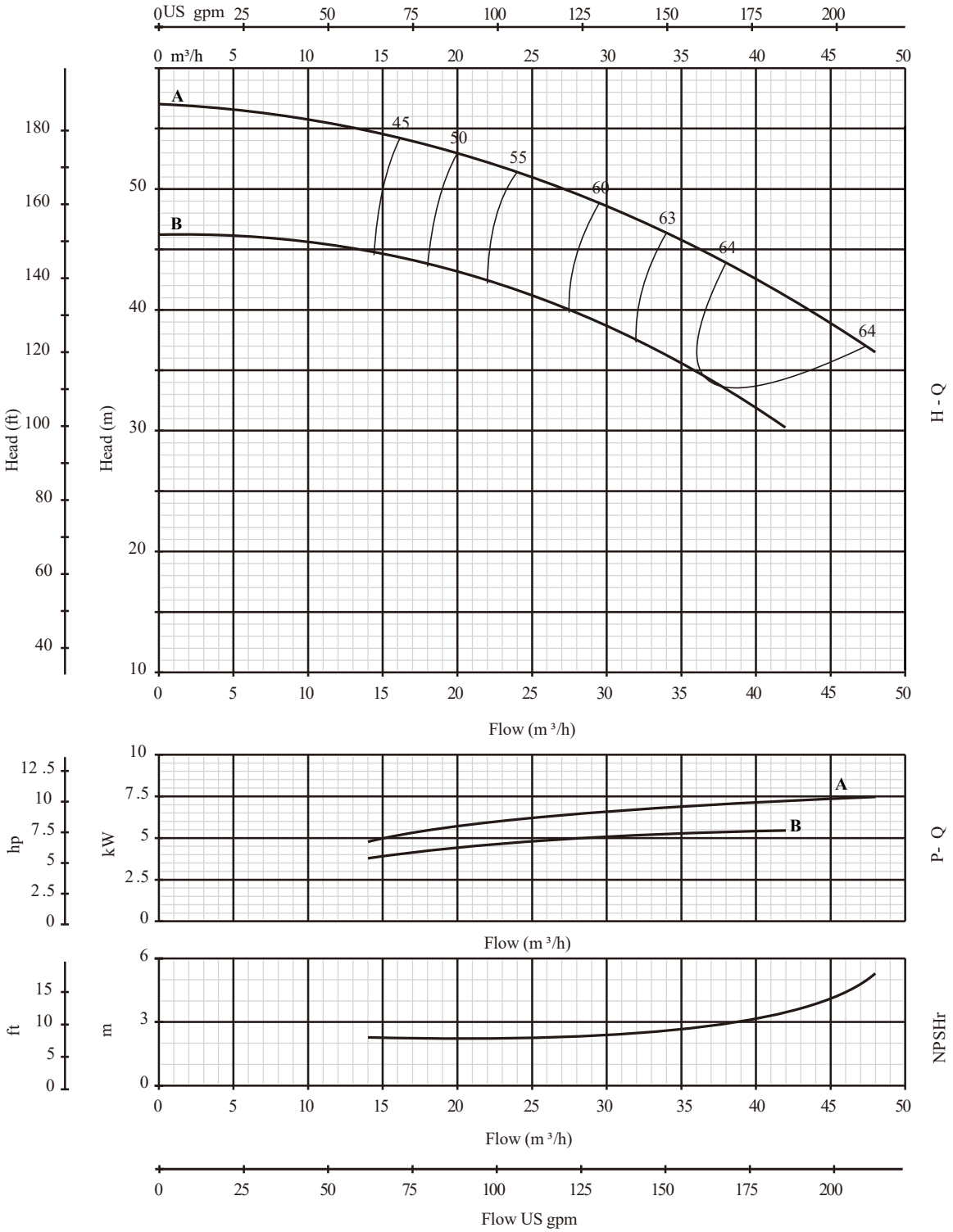
MODEL	DN	Power		Q=DELIVERY						
				us gpm	0	79	106	119	159	185	211
				l/min	0	300	400	450	600	700	800
	mm	kw	hp	m³/h	0	18	24	27	36	42	48
				H=Head (m)							
CM 40-160B	65x40	3	4		31.8	29.5	27.5	26.3	21.5	17.5	-
CM 40-160A	65x40	4	5.5		38	36	34	33	28.5	25	20.1

MARO water pumps

40-200

2900rpm

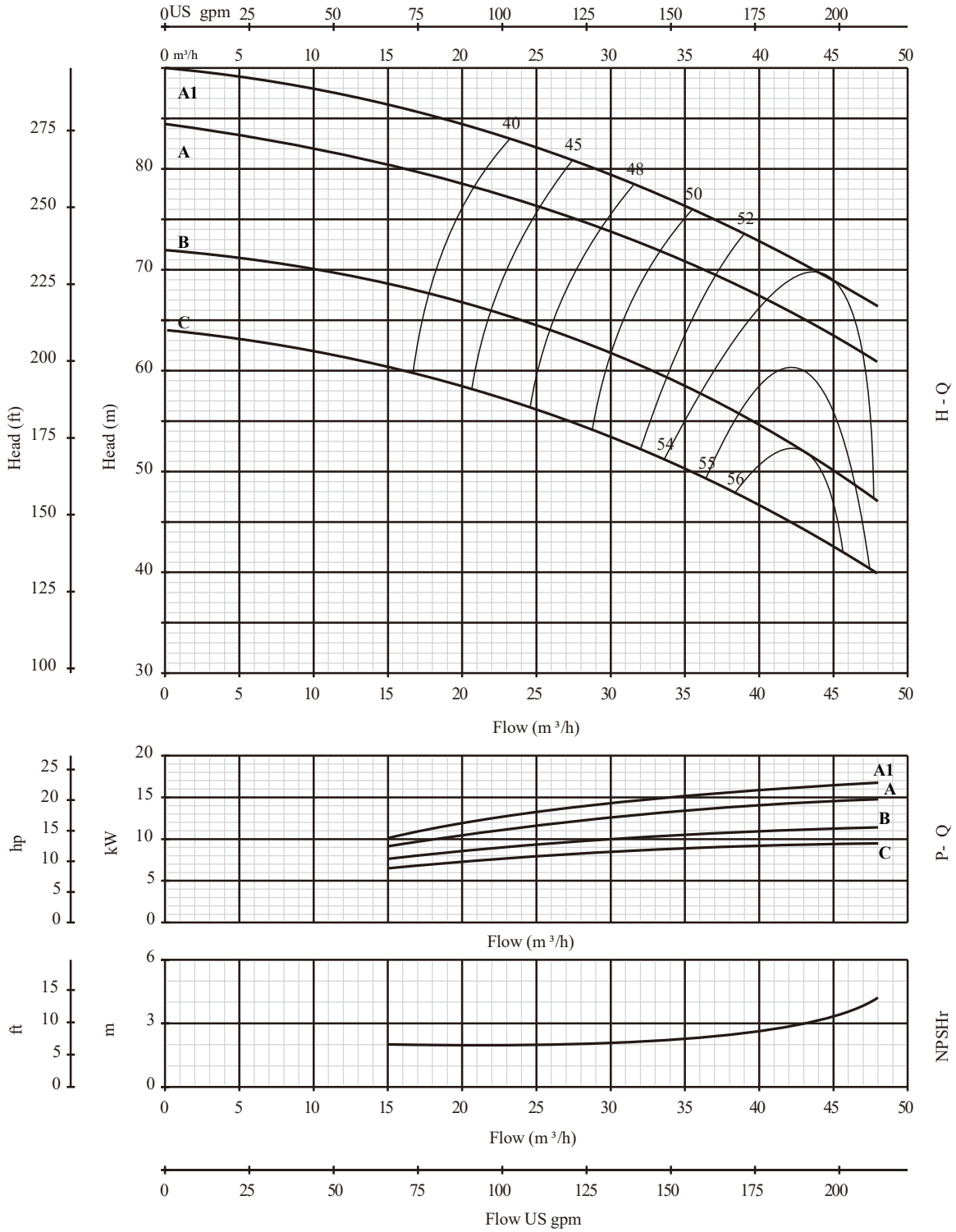
PERFORMANCE CURVE



MODEL	DN	Power		Q=DELIVERY						
				us gpm	0	79	106	119	159	185	211
				l/min	0	300	400	450	600	700	800
				m³/h	0	18	24	27	36	42	48
	mm	kw	hp	H=Head (m)							
CM 40-200B	65x40	5.5	7.5	46	43.8	41.3	40.1	35	30	-
CM 40-200A	65x40	7.5	10	57	53.6	51.5	50	45	41	36.5

40-250

2900rpm



PERFORMANCE CURVE

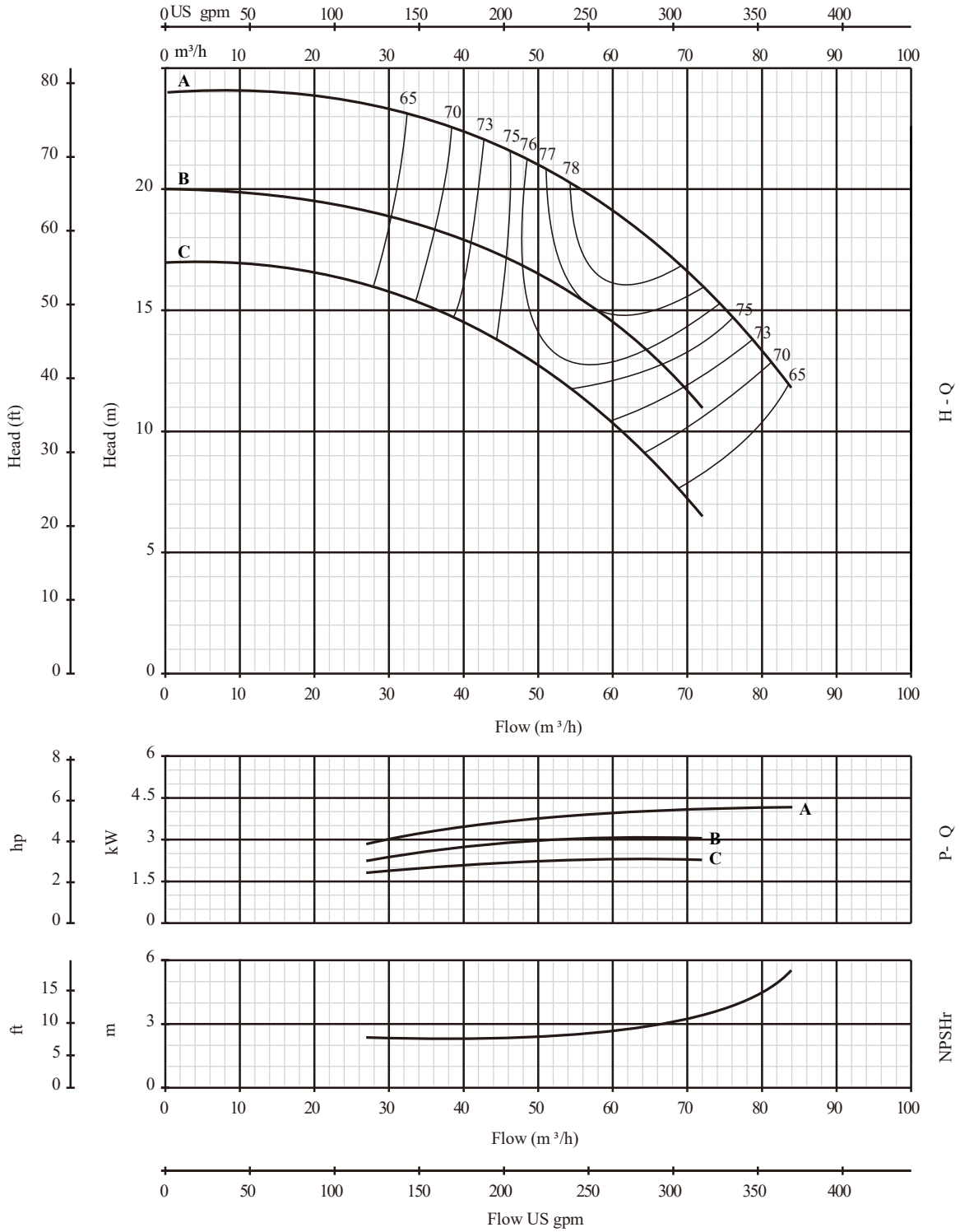
MODEL	DN	Power		Q=DELIVERY						
				us gpm	0	79	106	119	159	185	211
				l/min	0	300	400	450	600	700	800
				m³/h	0	18	24	27	36	42	48
	mm	kw	hp	H=Head (m)							
CM 40-250C	65x40	9.2	12.5	64	59	56.5	55	49.5	45	39.8
CM 40-250B	65x40	11	15	72	67.5	65	63.5	57.5	52.2	47
CM 40-250A	65x40	15	20	84.5	79.3	77.3	75.2	70	66	61
CM 40-250A1	65x40	18.5	25	90	85.5	82.8	80.7	75.8	70.5	66.5

MARO water pumps

50-125

2900rpm

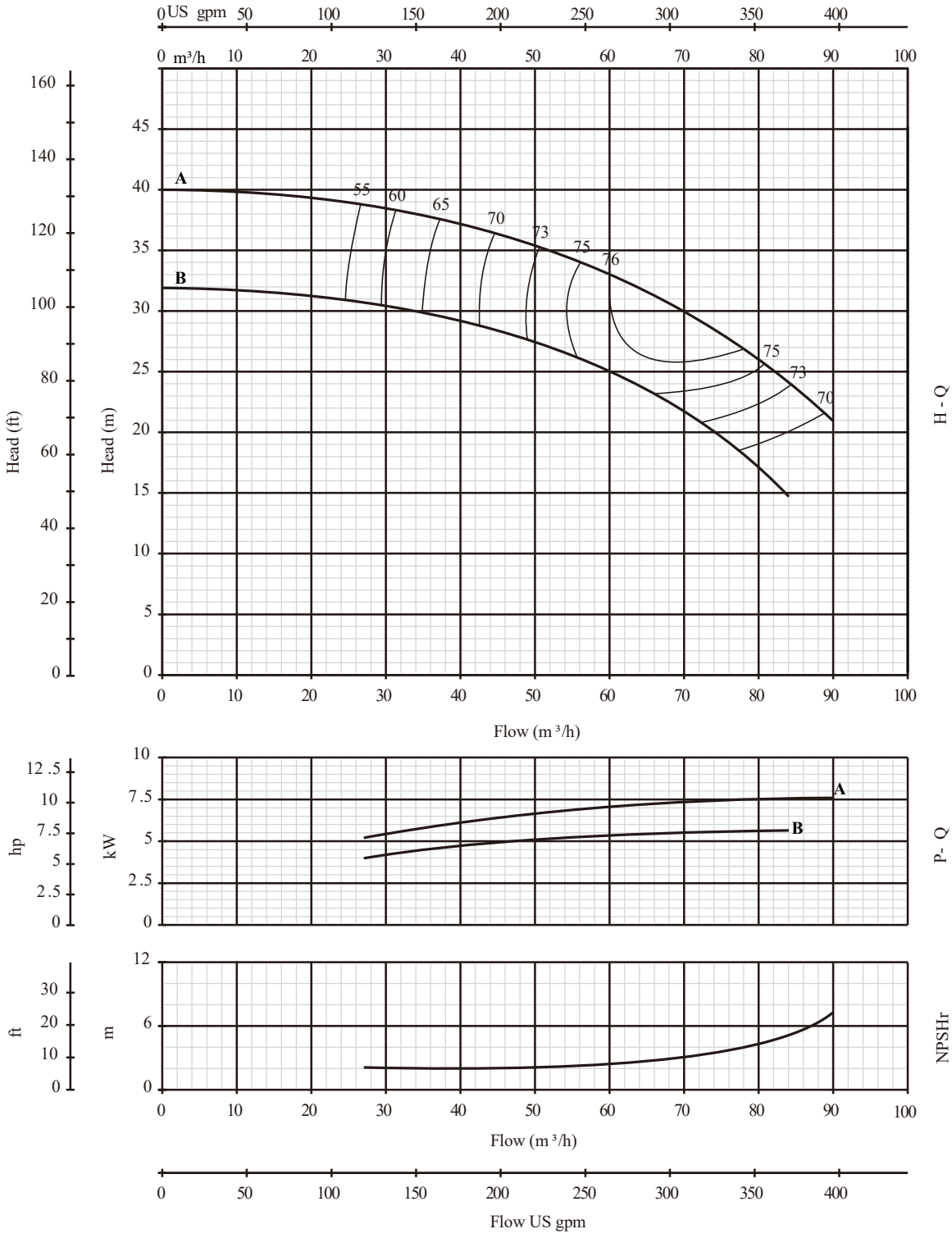
PERFORMANCE CURVE



MODEL	DN	Power		Q=DELIVERY us gpm	0	159	185	211	238	317	370
				l/min	0	600	700	800	900	1200	1400
	mm	kw	hp	m³/h	0	36	42	48	54	72	84
				H=Head (m)							
CM 50-125C	65x50	2.2	3		17	15.4	14	12.8	11.5	6.5	-
CM 50-125B	65x50	3	4		20	18.8	18	17	15.6	11	-
CM 50-125A	65x50	4	5.5		24	23.1	23	21.5	20.3	15.8	11.8

50-160

2900rpm



PERFORMANCE CURVE

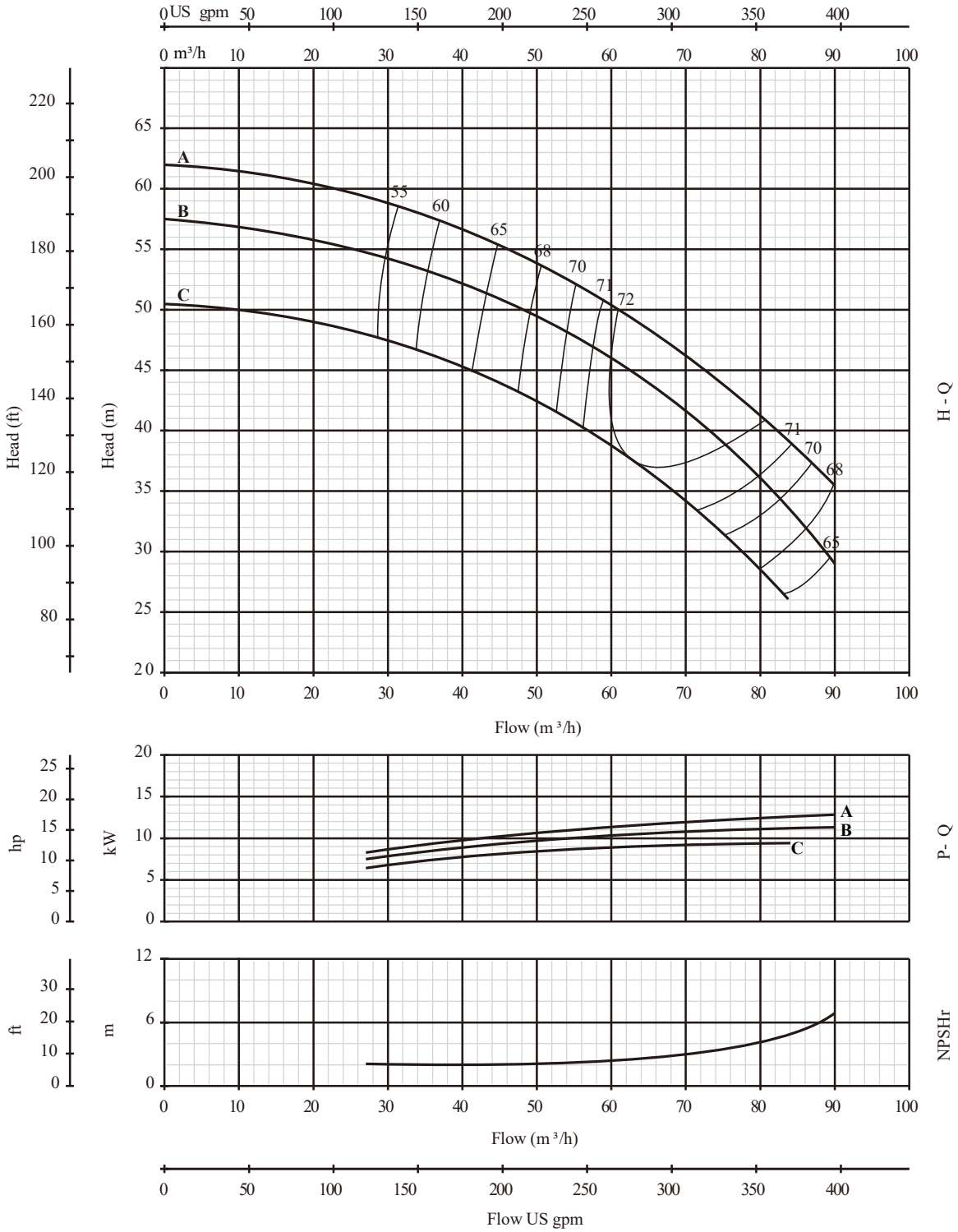
MODEL	DN	Power		Q=DELIVERY							
				us gpm	0	159	185	211	238	317	370	396
				l/min	0	600	700	800	900	1200	1400	1500
				m³/h	0	36	42	48	54	72	84	90
	mm	kw	hp	H=Head (m)								
CM 50-160B	65x50	5.5	7.5	32	30.6	30	28	26.6	20.5	14.8	-
CM 50-160A	65x50	7.5	10	40	38	37	36	34.4	29	24	21

MARO water pumps

50-200

2900rpm

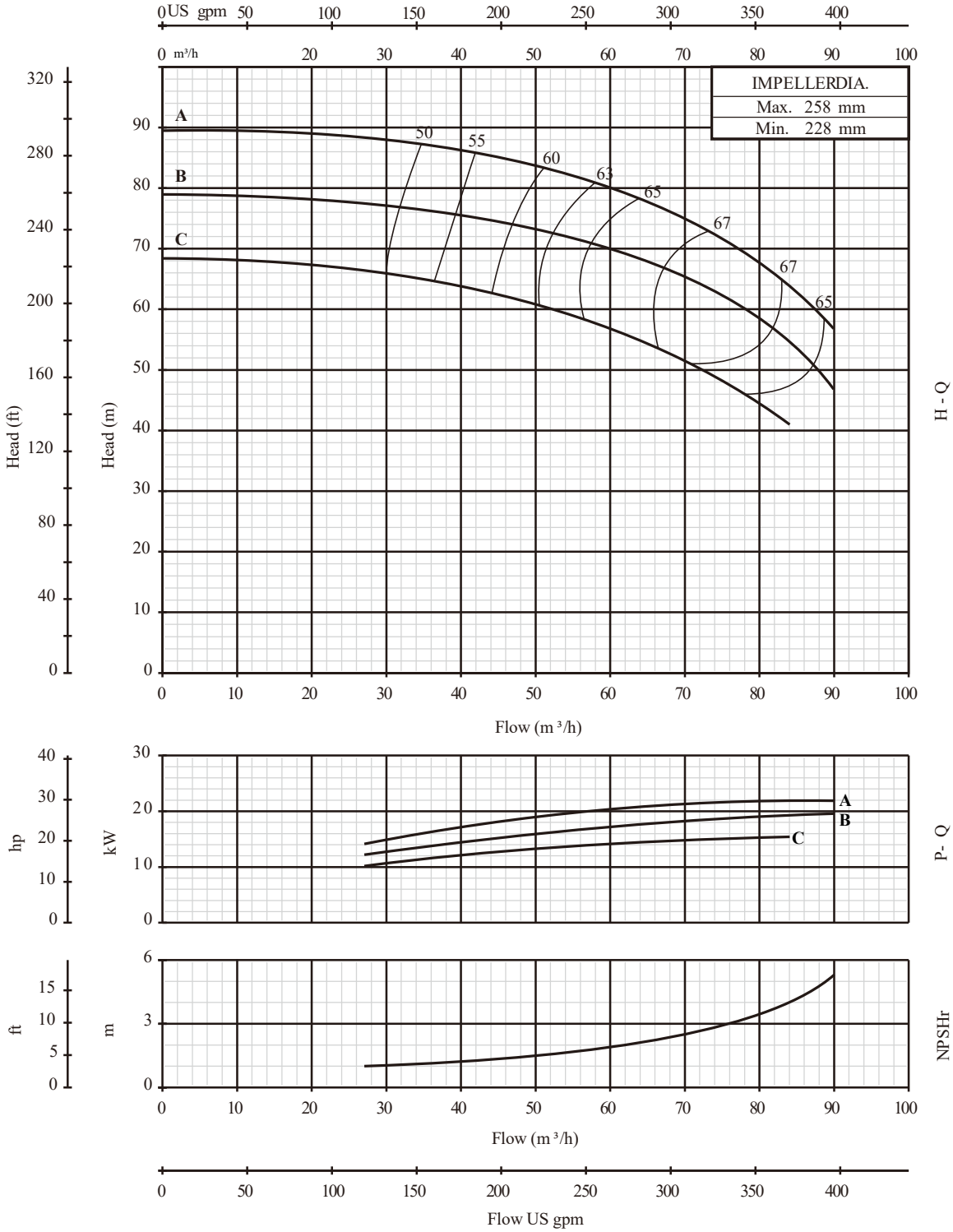
PERFORMANCE CURVE



MODEL	DN	Power		Q=DELIVERY							
				us gpm	0	159	185	211	238	317	370	396
				l/min	0	600	700	800	900	1200	1400	1500
				m³/h	0	36	42	48	54	72	84	90
	mm	kw	hp	H=Head (m)								
CM 50-200C	65x50	9.2	12.5	50.5	46.8	45	43	40.9	32.5	26.7	-
CM 50-200B	65x50	11	15	57.5	53.5	52	50	47.5	40	34	29
CM 50-200A	65x50	15	20	62	58	56.5	54.5	52	44.5	39	35.5

50-250

2900rpm



PERFORMANCE CURVE

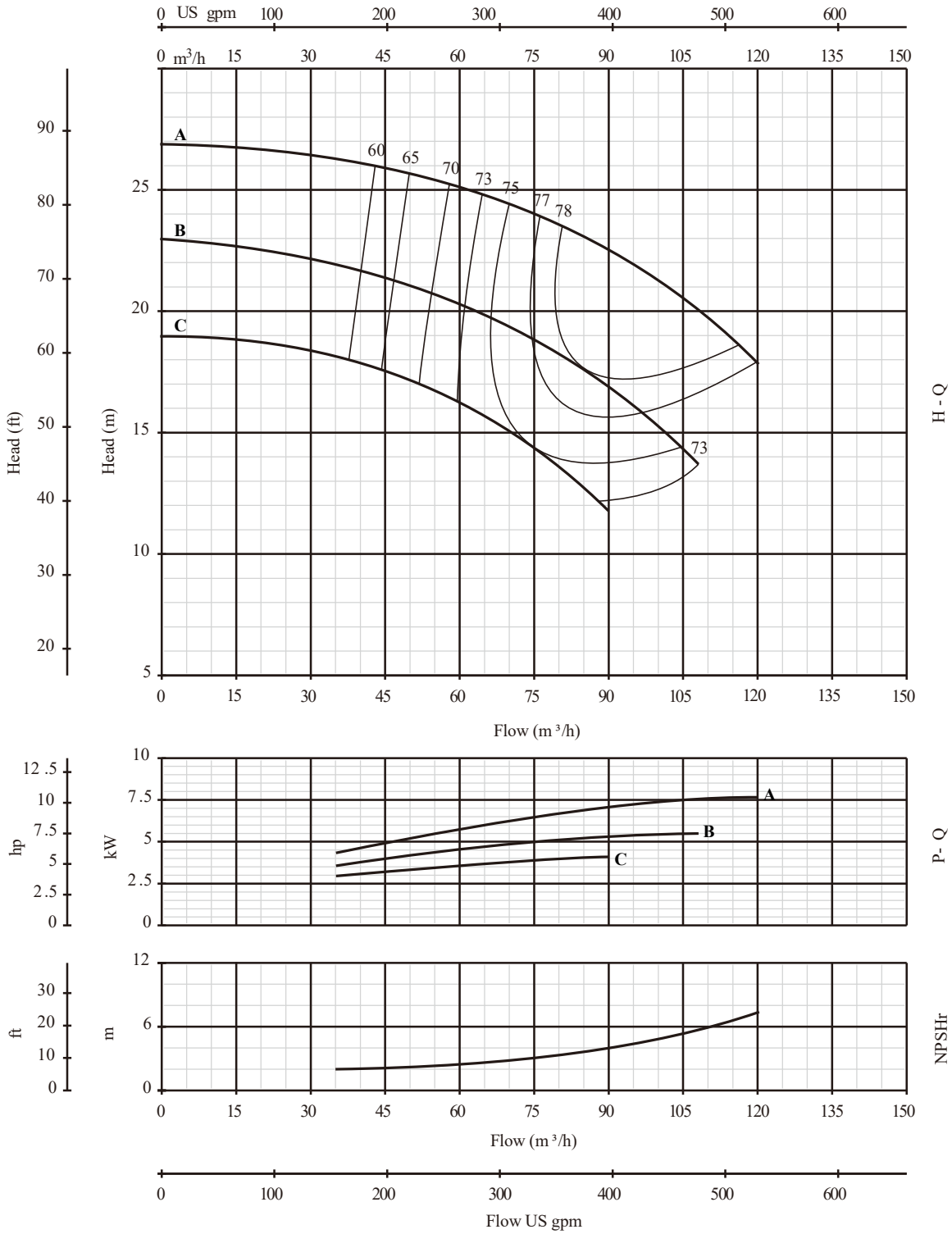
MODEL	DN	Power		Q=DELIVERY							
				us gpm	0	159	185	211	238	317	370	396
				l/min	0	600	700	800	900	1200	1400	1500
				m³/h	0	36	42	48	54	72	84	90
	mm	kw	hp	H=Head (m)								
CM 50-250C	65x50	15	20	68.5	64	63	61.5	59	50	41	-	
CM 50-250B	65x50	18.5	25	79	75.8	74.8	74	71.5	63.5	55.5	47	
CM 50-250A	65x50	22	30	89.5	86	85.3	84	81.5	73.5	63.5	57	

MARO water pumps

65-125

2900rpm

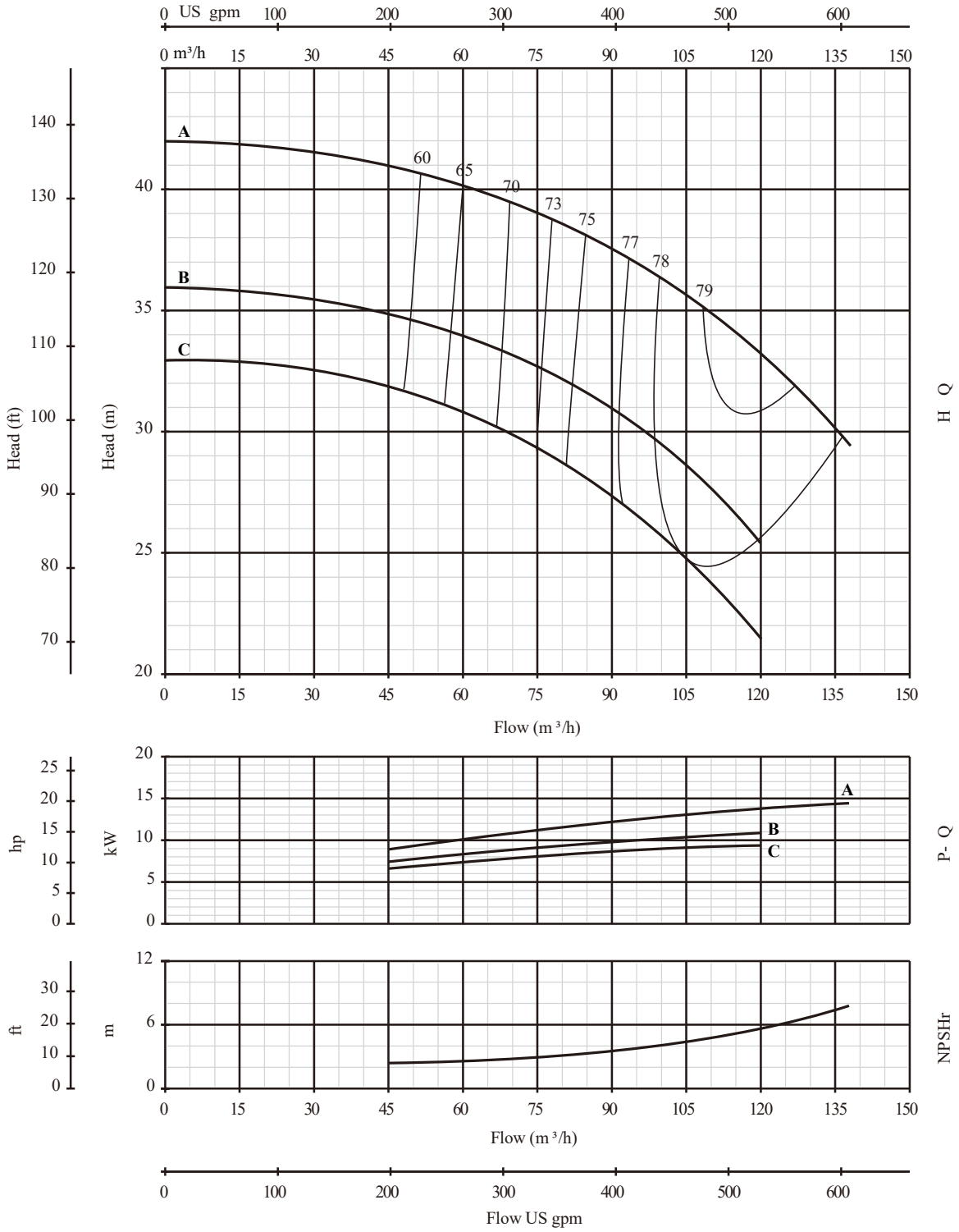
PERFORMANCE CURVE



MODEL	DN	Power		Q=DELIVERY							
				us gpm	0	211	238	317	370	396	476	529
				l/min	0	800	900	1200	1400	1500	1800	2000
				m³/h	0	48	54	72	84	90	108	120
	mm	kw	hp	H=Head (m)								
CM 65-125C	80x65	4	5.5	19	17.3	16.8	14.5	13	11.8	-	-	
CM 65-125B	80x65	5.5	7.5	23	21.3	20.9	19	17.5	16.7	13.7	-	
CM 65-125A	80x65	7.5	10	27	26	25.6	24.5	23	22.5	20	18	

65-160

2900rpm



PERFORMANCE CURVE

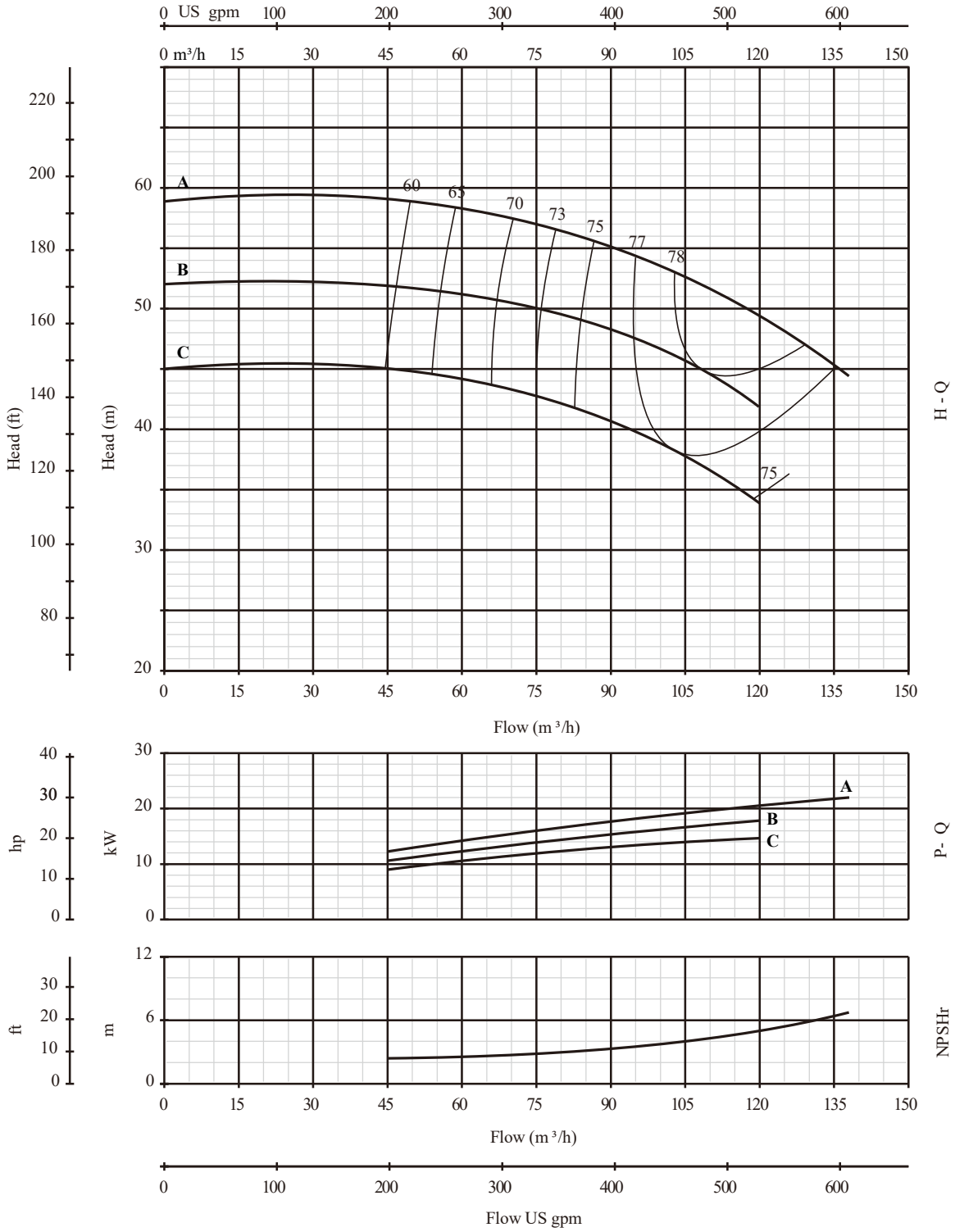
MODEL	DN	Power		Q=DELIVERY							
				us gpm 0	238	317	370	396	476	529	608
				l/min 0	900	1200	1400	1500	1800	2000	2300
				m³/h 0	54	72	84	90	108	120	138
	mm	kw	hp	H=Head (m)							
CM 65-160C	80x65	9.2	12.5	33	31.5	30	28	27.1	24	21.5	-
CM 65-160B	80x65	11	15	36	34.5	33	31.5	30.8	28	25.5	-
CM 65-160A	80x65	15	20	42	41	40	38.5	37.8	35	33	29.5

MARO water pumps

65-200

2900rpm

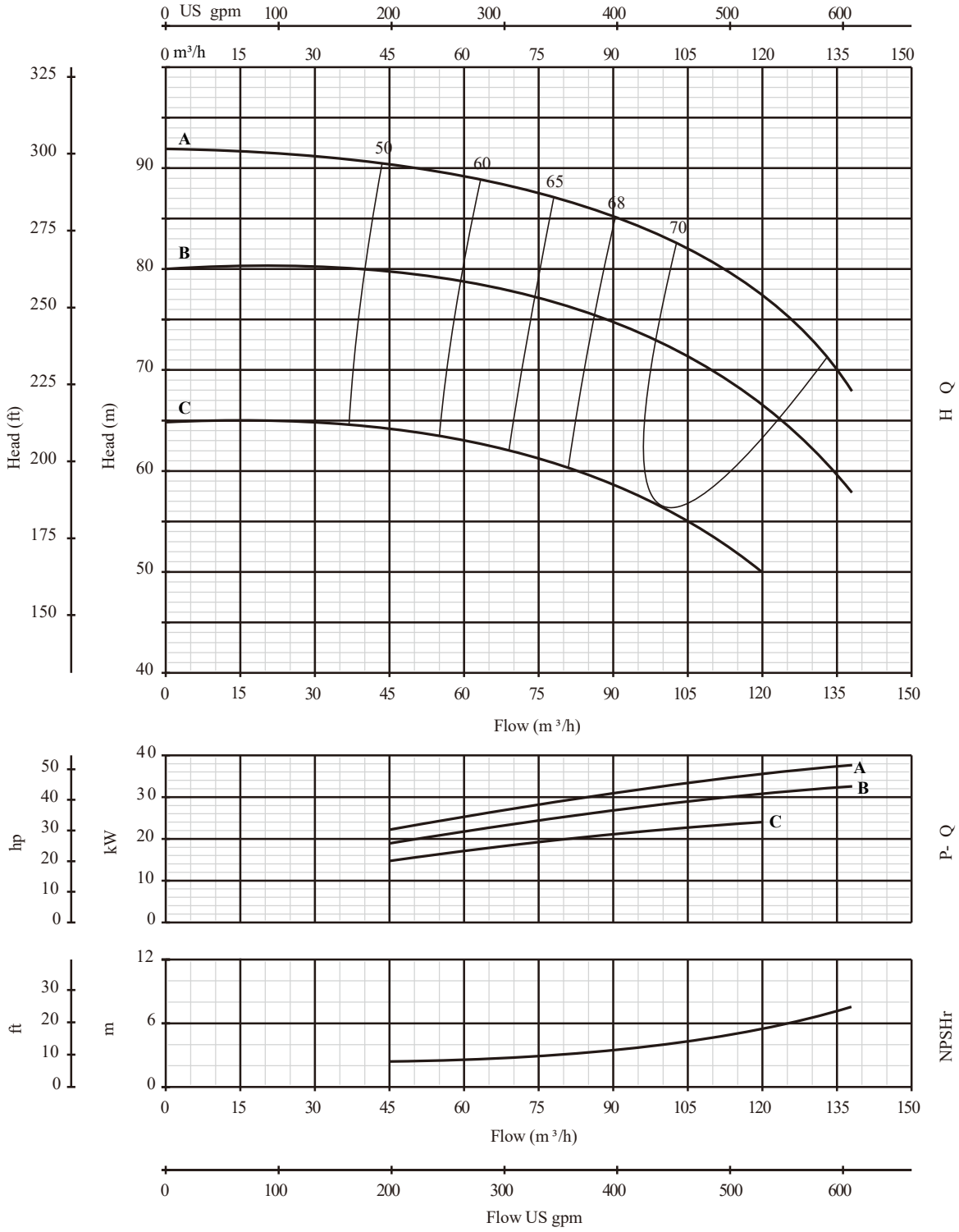
PERFORMANCE CURVE



MODEL	DN	Power		Q=DELIVERY							
				us gpm 0	238	317	370	396	476	529	608
				l/min 0	900	1200	1400	1500	1800	2000	2300
	mm	kw	hp	m³/h 0	54	72	84	90	108	120	138
				H=Head (m)							
CM 65-200C	80x65	15	20	45	45.5	43	41	40.2	36.5	34	-
CM 65-200B	80x65	18.5	25	52	52.3	51	49	48.2	44.5	42	-
CM 65-200A	80x65	22	30	59	59.5	58	56	55	52	49.5	44.5

65-250

2900rpm



PERFORMANCE CURVE

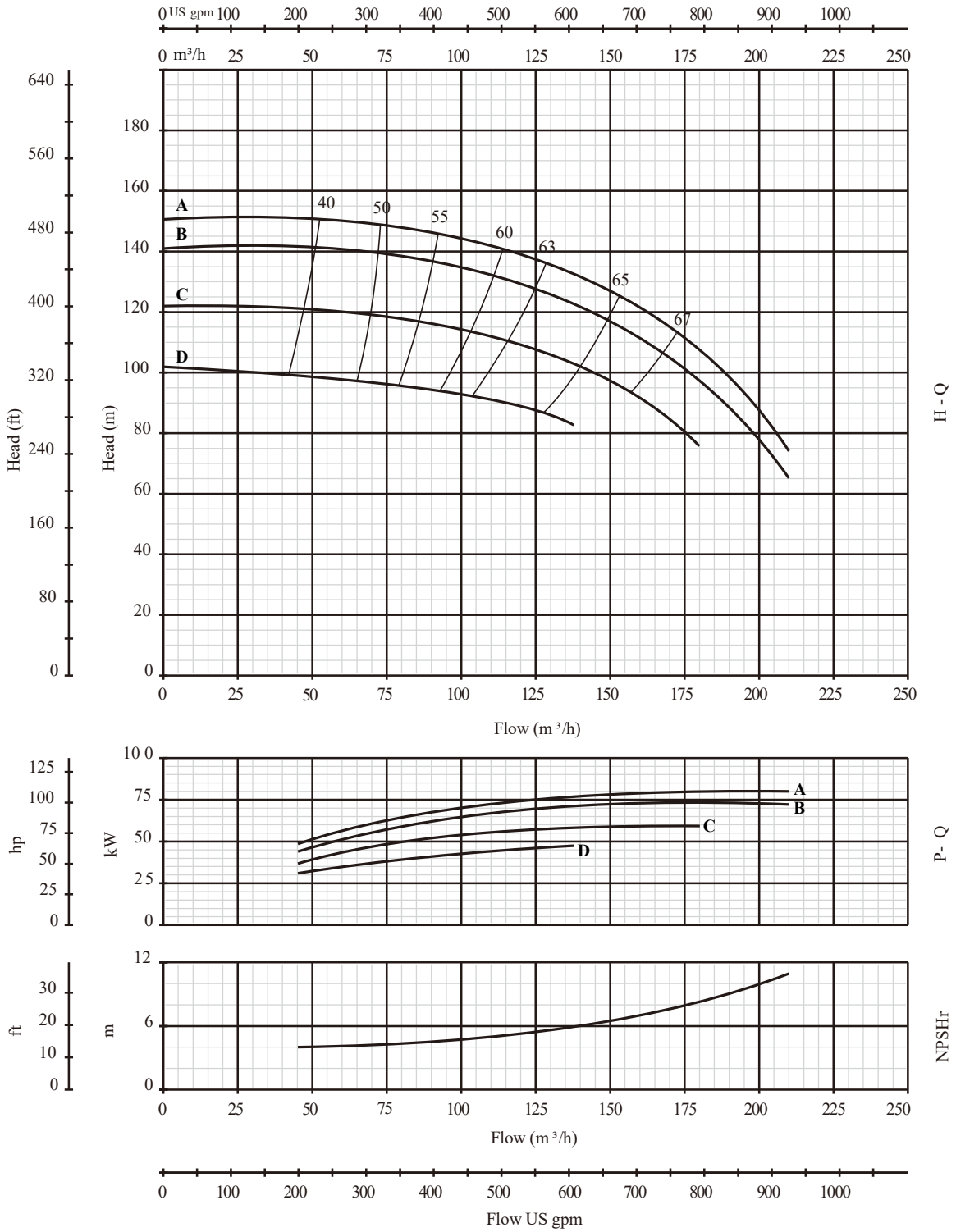
MODEL	DN	Power		Q=DELIVERY							
				us gpm 0	238	317	370	396	476	529	608
				l/min 0	900	1200	1400	1500	1800	2000	2300
				m³/h 0	54	72	84	90	108	120	138
	mm	kw	hp	H=Head (m)							
CM 65-250C	80x65	22	30	64.8	64.7	62	60	58.5	53	50	-
CM 65-250B	80x65	30	40	80	79.8	77.5	75.5	74.5	70	66	58
CM 65-250A	80x65	37	50	92	90.5	88.5	87	85	80.5	78	68

MARO water pumps

65-315

2900rpm

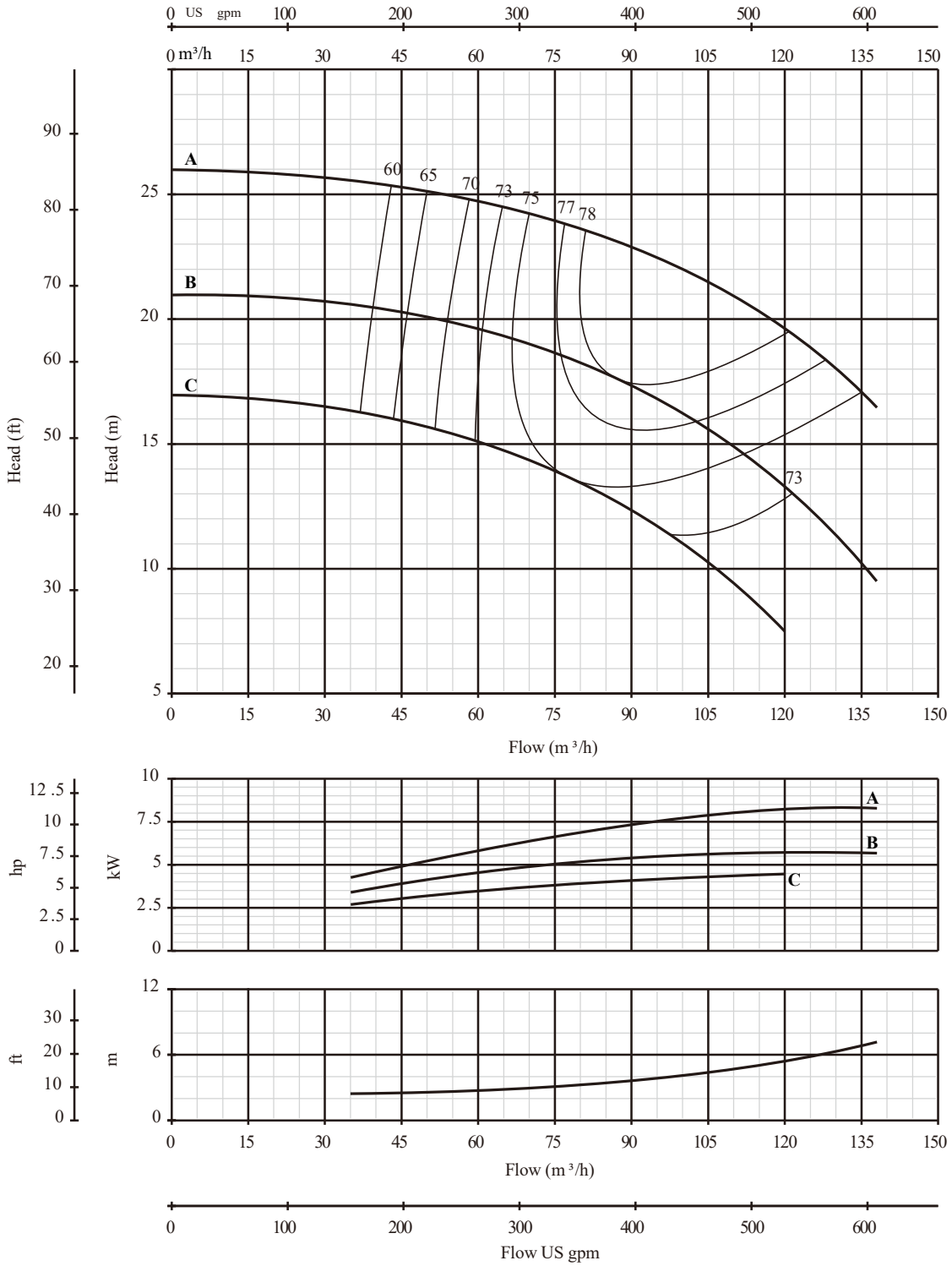
PERFORMANCE CURVE



MODEL	DN	Power		Q=DELIVERY							
				us gpm 0	264	396	529	634	793	881	925
				l/min 0	1000	1500	2000	2400	3000	3333	3500
				m³/h 0	60	90	120	144	180	200	210
	mm	kw	hp	H=Head (m)							
CM 65-315D	80x65	45	60	102	98	94.5	90	83	-	-	-
CM 65-315C	80x65	55	75	122	120	114.5	110	100	76	-	-
CM 65-315B	80x65	75	100	141	141	134.5	130	120	96	78	65.5
CM 65-315A	80x65	90	125	151	150	144.5	140	130	106	88	75.5

80-125

2900rpm



PERFORMANCE CURVE

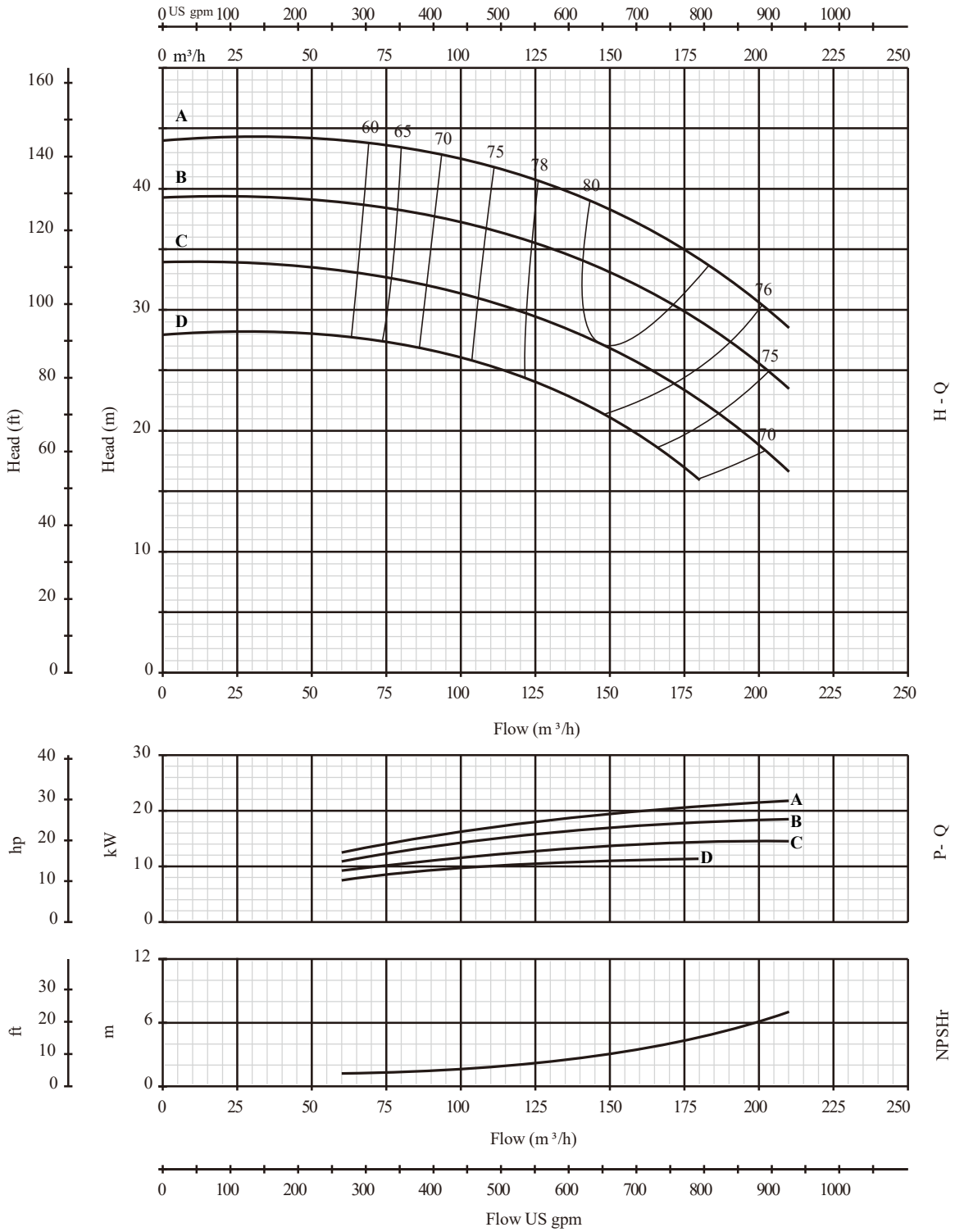
MODEL	DN	Power		Q=DELIVERY us gpm 0	264	396	529	634
				l/min 0	1000	1500	2000	2400
				m³/h 0	60	90	120	144
	mm	kw	hp	H=Head (m)				
CM 80-125C	100x80	4	5.5	17	15	12.3	7.5	-
CM 80-125B	100x80	5.5	7.5	21	19.6	17.4	13.4	9.5
CM 80-125A	100x80	7.5	10	26	24.8	23	19.5	16.5

MARO water pumps

80-160

2900rpm

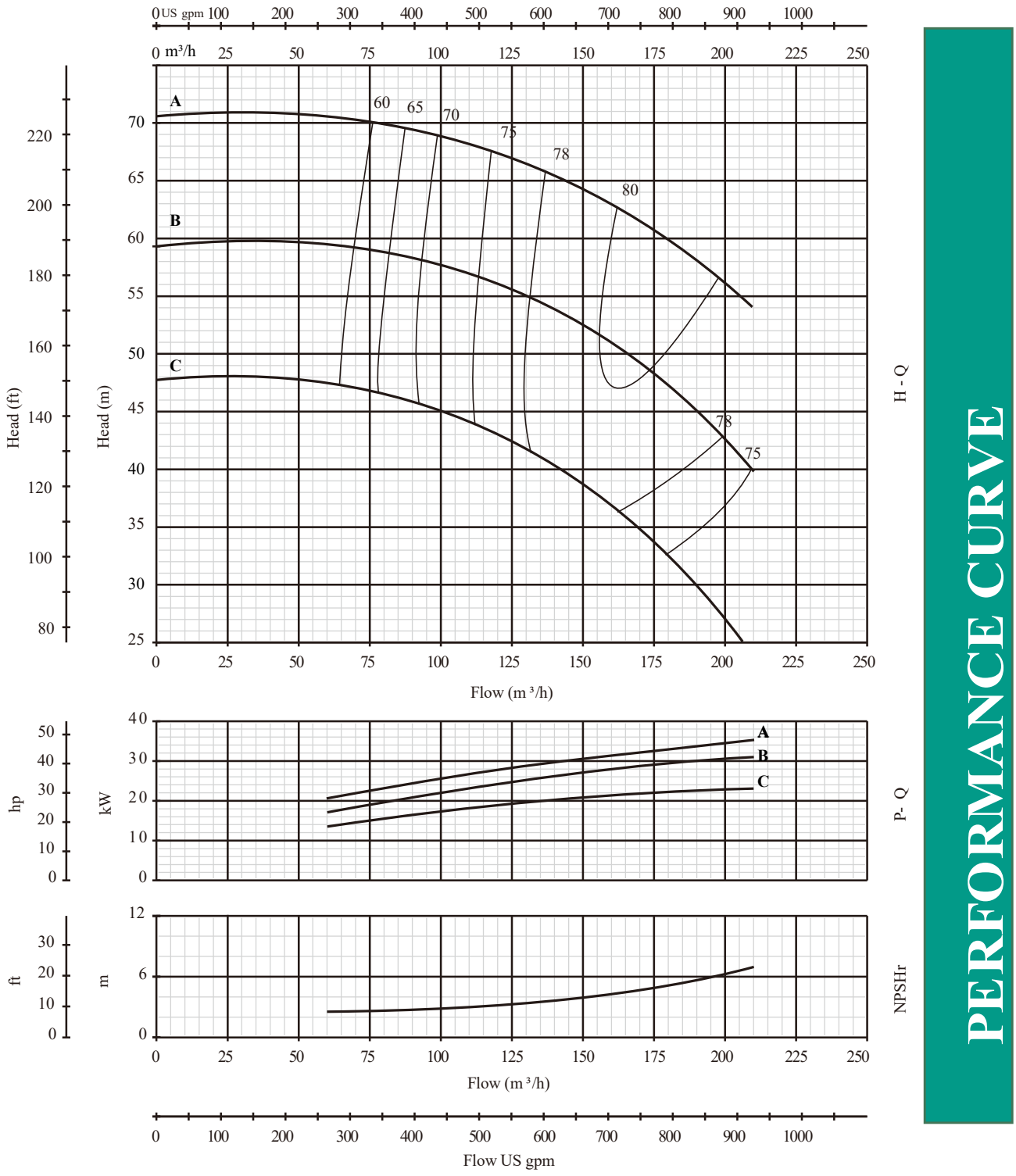
PERFORMANCE CURVE



MODEL	DN	Power		Q=DELIVERY							
				us gpm 0	264	396	529	634	793	881	925
				l/min 0	1000	1500	2000	2400	3000	3333	3500
				m³/h 0	60	90	120	144	180	200	210
	mm	kw	hp	H=Head (m)							
CM 80-160D	100x80	11	15	28	27	27.3	24.5	21.1	16	-	-
CM 80-160C	100x80	15	20	34	32.6	32.5	30.2	27	22.1	18.5	16.7
CM 80-160B	100x80	18.5	25	39	38.5	38	36.7	33.6	28.8	25.3	23.5
CM 80-160A	100x80	22	30	44	43.5	43	41.7	38.6	33.8	30.3	28.5

80-200

2900rpm



PERFORMANCE CURVE

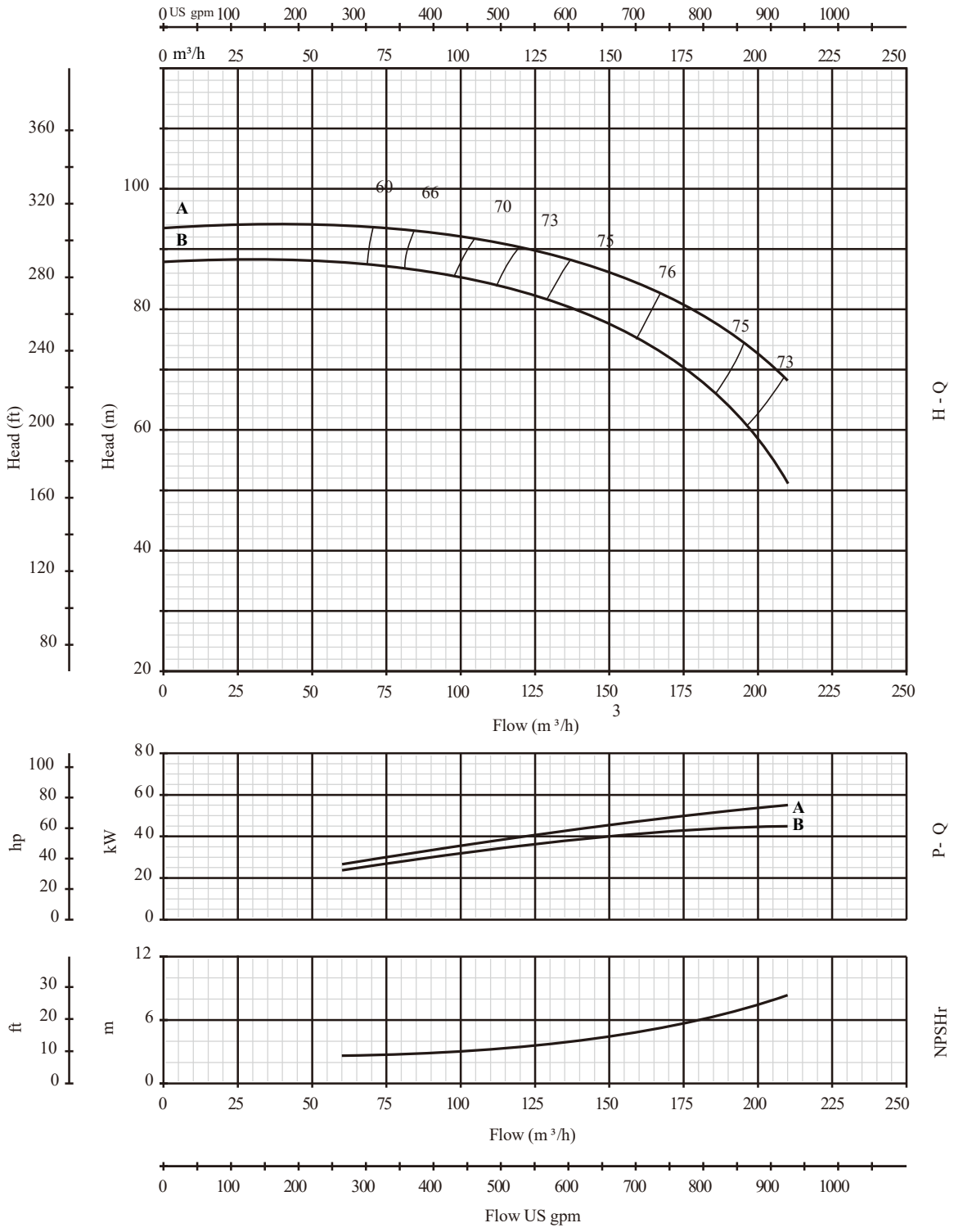
MODEL	DN	Power		Q=DELIVERY							
				us gpm 0	264	396	529	634	793	881	925
				l/min 0	1000	1500	2000	2400	3000	3333	3500
				m³/h 0	60	90	120	144	180	200	210
	mm	kw	hp	H=Head (m)							
CM 80-200C	100x80	22	30	48	47.7	47.5	43.5	39.2	32.5	27.2	24.5
CM 80-200B	100x80	30	40	60	59.7	59.5	57	53.1	47	42.7	40.5
CM 80-200A	100x80	37	50	71.5	70.9	70.5	65.5	59.3	51	43.2	38.5

MARO water pumps

80-250

2900rpm

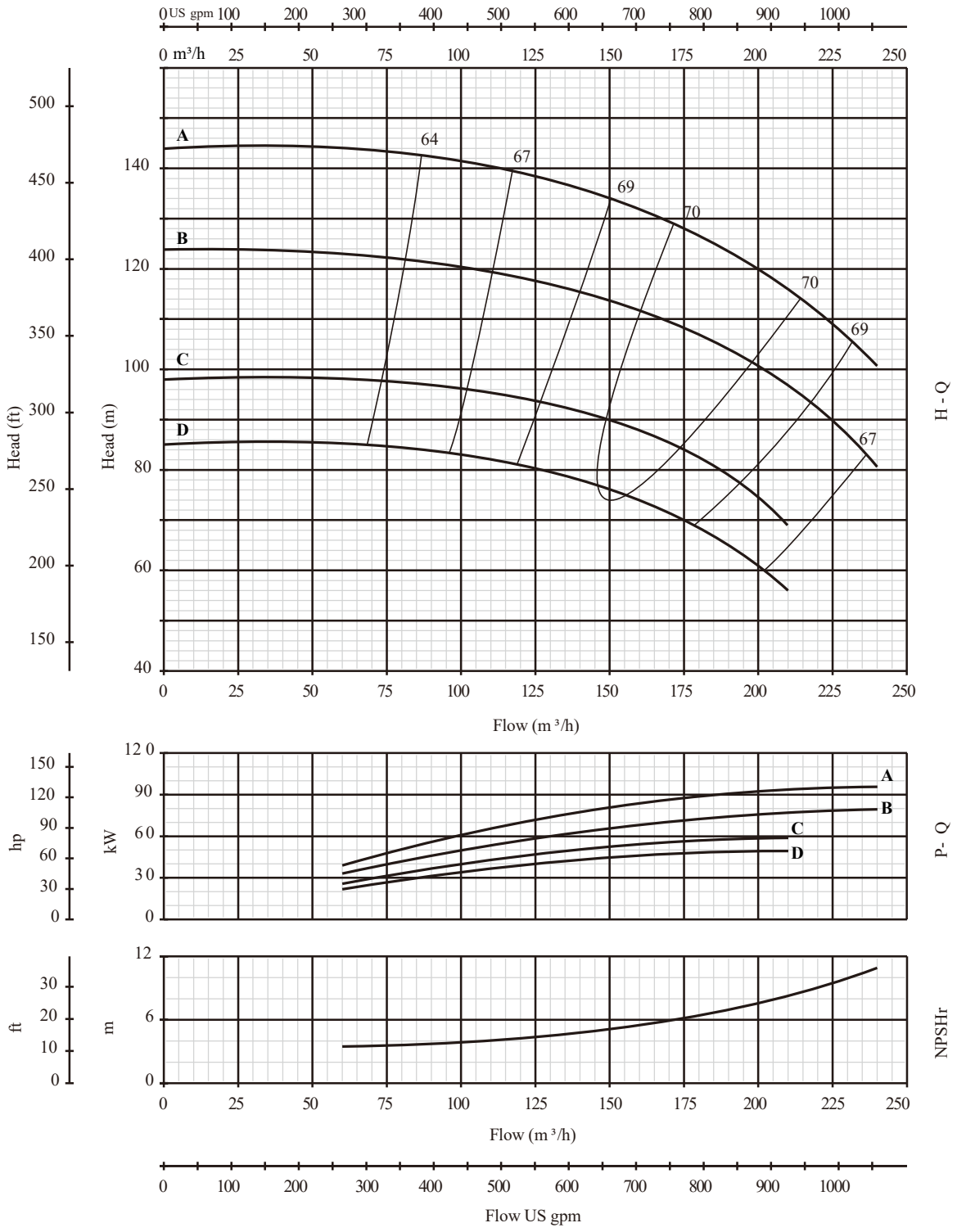
PERFORMANCE CURVE



MODEL	DN	Power		Q=DELIVERY							
				us gpm 0	264	396	529	634	793	881	925
				l/min 0	1000	1500	2000	2400	3000	3333	3500
				m³/h 0	60	90	120	144	180	200	210
	mm	kw	hp	H=Head (m)							
CM 80-200B	100x80	45	60	88	86.7	86	83.6	78.5	70.5	60	51
CM 80-200A	100x80	55	75	94.5	94.5	94.5	91.8	87	79.5	72.1	68.3

80-315

2900rpm



PERFORMANCE CURVE

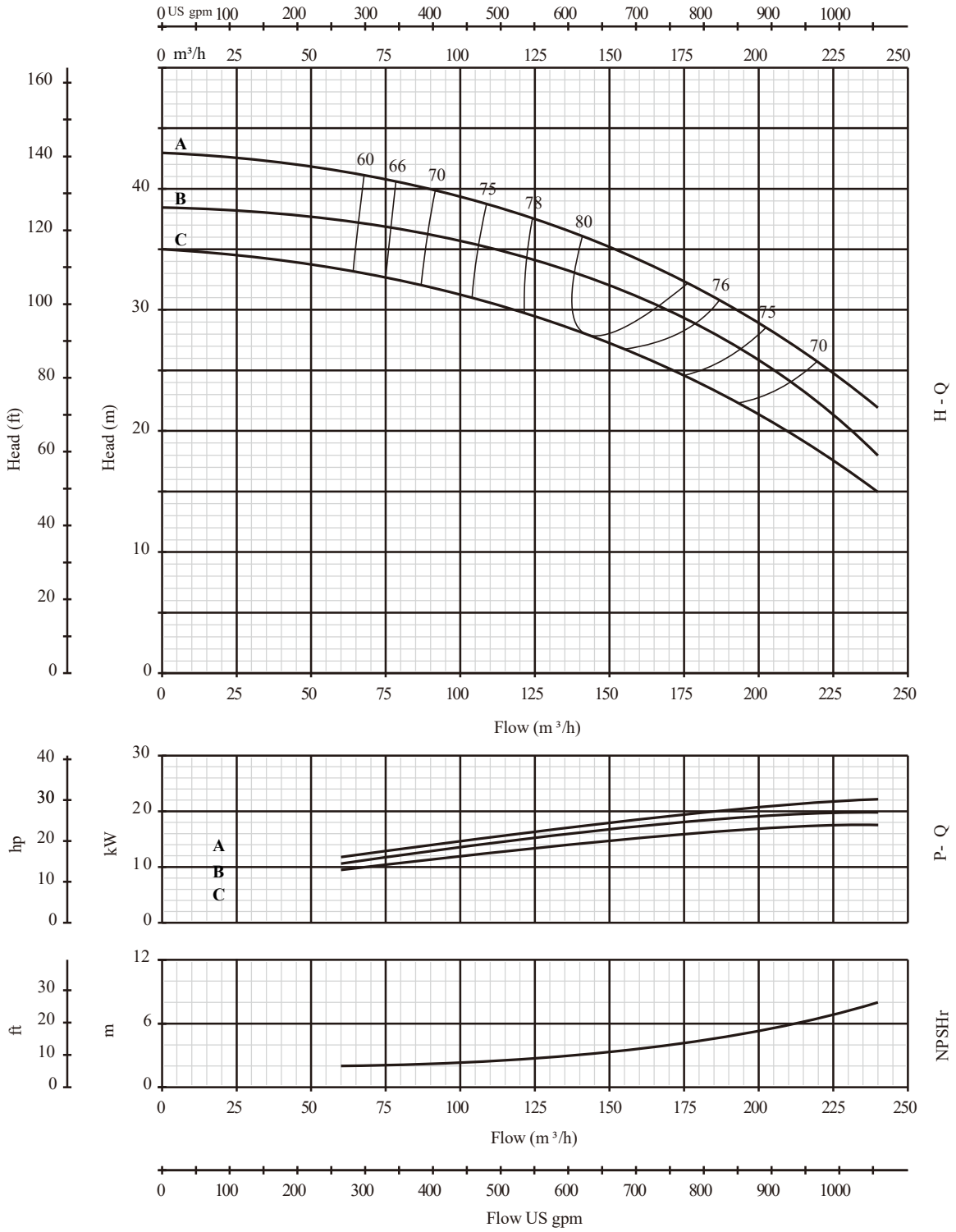
MODEL	DN	Power		Q=DELIVERY									
				us gpm 0	264	396	529	634	793	881	925	969	1057
				l/min 0	1000	1500	2000	2400	3000	3333	3500	3667	4000
				m³/h 0	60	90	120	144	180	200	210	220	240
	mm	kw	hp	H=Head (m)									
CM 80-315D	100x80	45	60	85	84	82.6	82	78	68.3	61	56	-	-
CM 80-315C	100x80	55	75	98	97	95.6	95	91	81.3	74	69	-	-
CM 80-315B	100x80	75	100	124	123	121.6	121	117	107.3	100	95	90	80.8
CM 80-315A	100x80	90	125	144	143	141.6	141	137	127.3	120	115	110	100.8

MARO water pumps

100-160

2900rpm

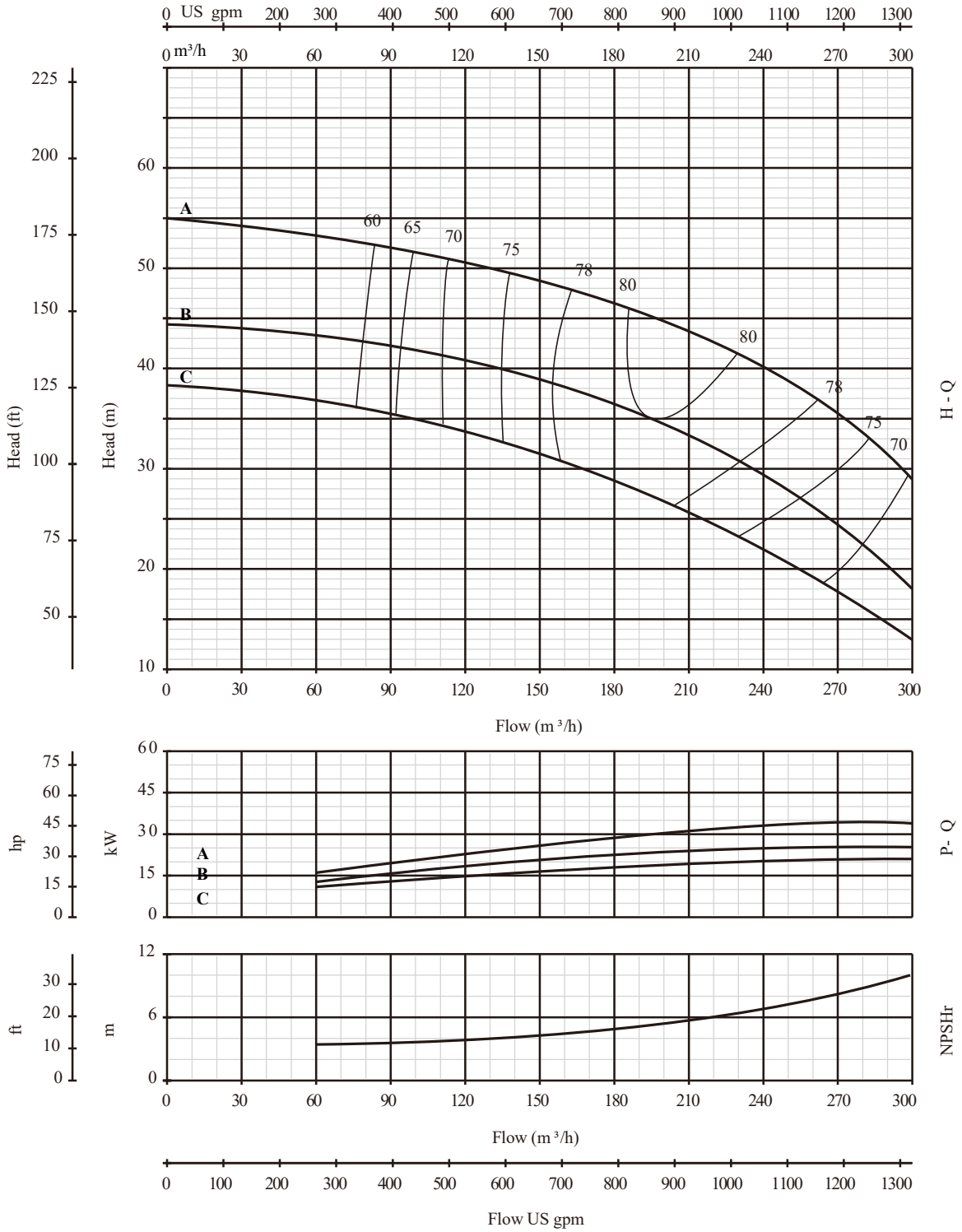
PERFORMANCE CURVE



MODEL	DN	Power		Q=DELIVERY									
				us gpm 0	264	396	529	634	793	881	925	969	1057
				l/min 0	1000	1500	2000	2400	3000	3333	3500	3667	4000
				m³/h 0	60	90	120	144	180	200	210	220	240
	mm	kw	hp	H=Head (m)									
CM 100-160C	125x100	15	20	35	33.5	32.5	30	27.8	24.5	21.5	20	18.3	15
CM 100-160B	125x100	18.5	25	38.5	37.5	36.5	34.3	32.2	29	25.7	24	22	18
CM 100-160A	125x100	22	30	43	41	40	37.6	35.2	31.5	28.5	27	25.3	22

100-200

2900rpm



PERFORMANCE CURVE

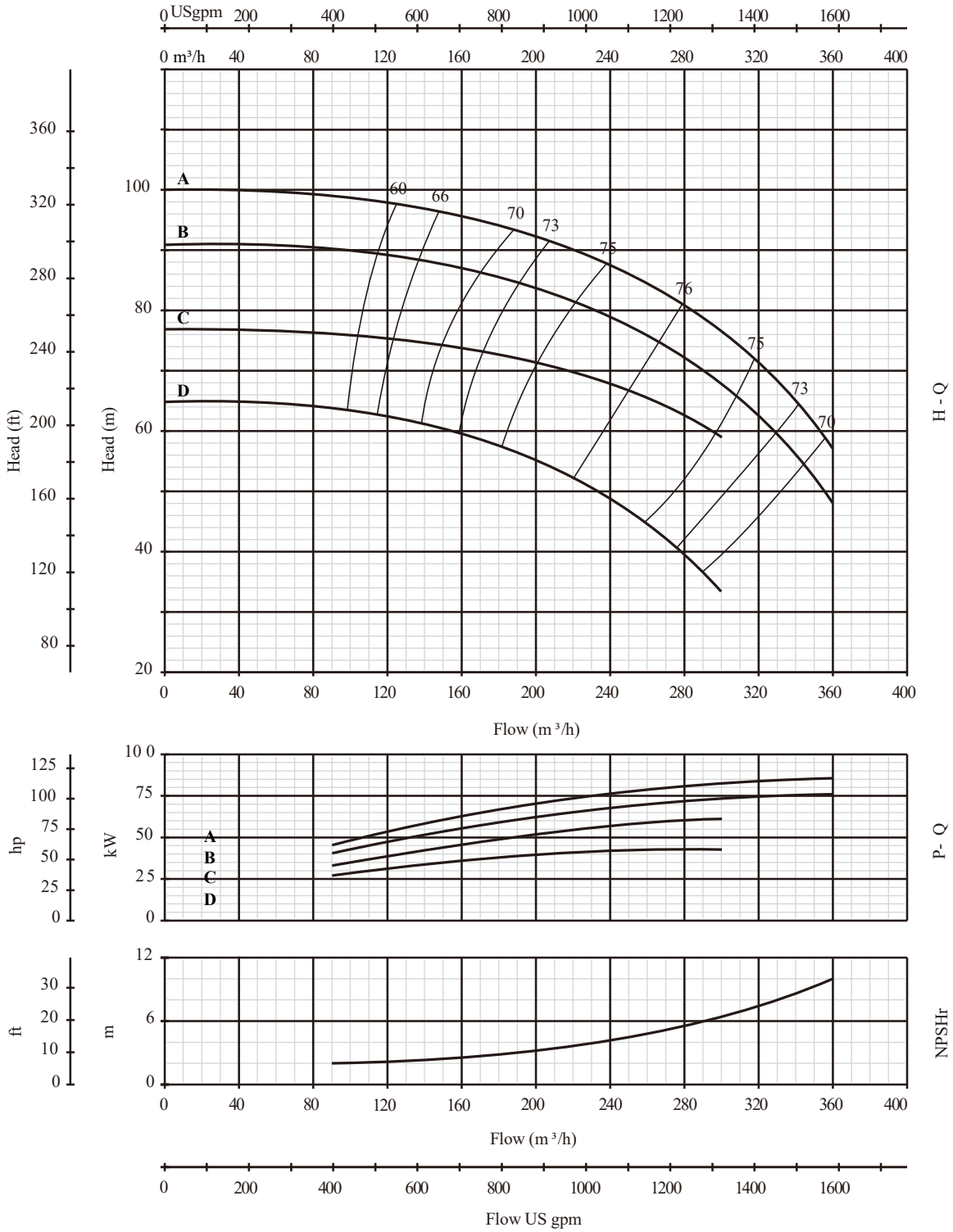
MODEL	DN	Power		Q=DELIVERY											
				us gpm 0	264	396	529	634	793	881	925	969	1057	1233	1322
				l/min 0	1000	1500	2000	2400	3000	3333	3500	3667	4000	4667	5000
				m³/h 0	60	90	120	144	180	200	210	220	240	280	300
	mm	kw	hp	H=Head (m)											
CM 100-200C	125x100	22	30	38.5	36.7	35.7	33.8	31.7	28.5	26.8	26	25	22.9	16.3	13
CM 100-200B	125x100	30	40	44.5	42.5	42	40.2	38.8	36.7	34.2	33	31.7	29	21.7	18
CM 100-200A	125x100	37	50	55	53	51	50.6	49.2	47	45	44	42.8	40.5	32.8	29

MARO water pumps

100-250

2900rpm

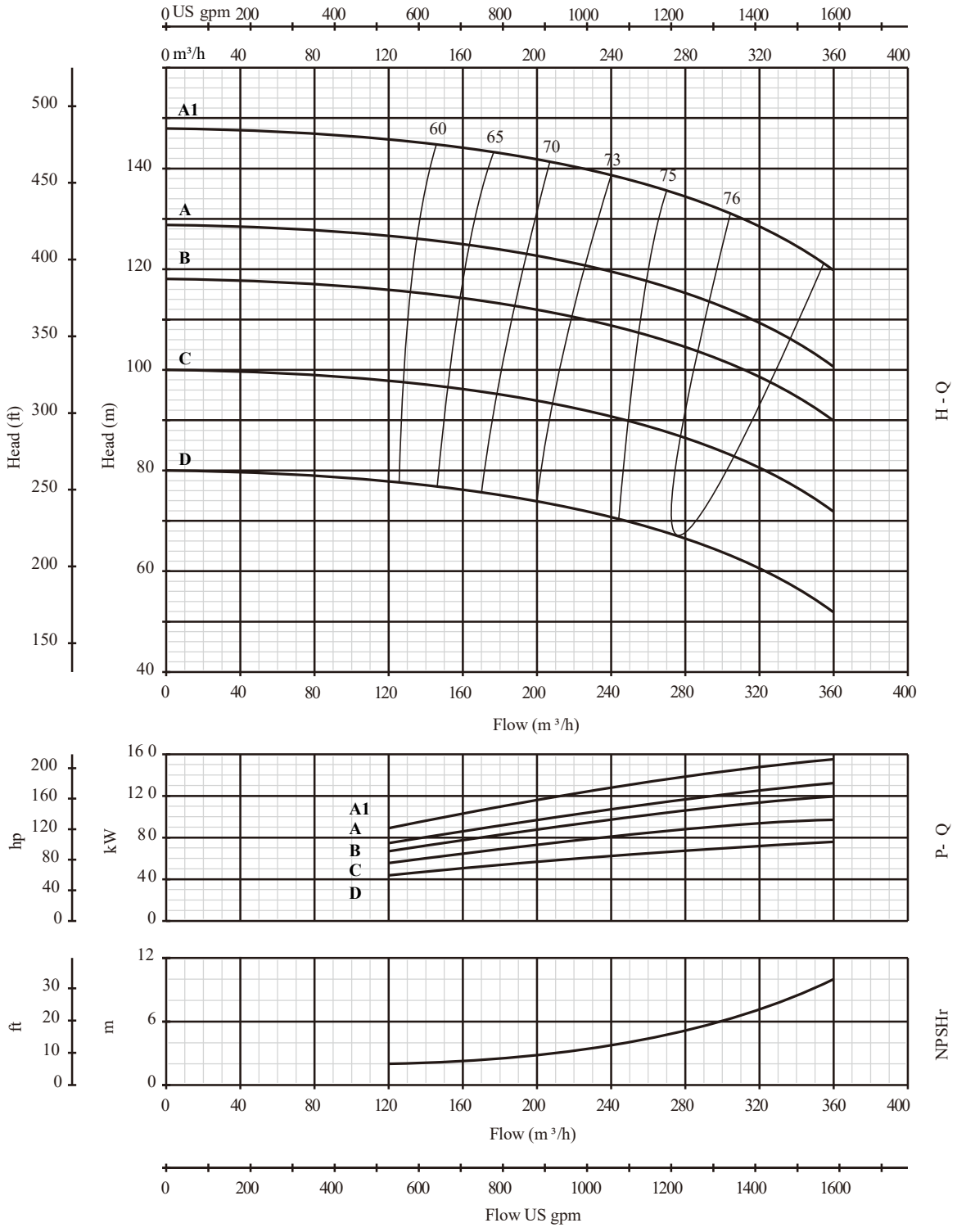
PERFORMANCE CURVE



MODEL	DN	Power		Q=DELIVERY												
				us gpm 0	264	396	529	634	793	881	925	969	1057	1233	1322	1586
				l/min 0	1000	1500	2000	2400	3000	3333	3500	3667	4000	4667	5000	6000
				m³/h 0	60	90	120	144	180	200	210	220	240	280	300	360
	mm	kw	hp	H=Head (m)												
CM 100-250D	125x100	45	60	65	65	64	63	61	58	56	55	53.3	50	39	33.5	-
CM 100-250C	125x100	55	75	77	76	75.5	75	73.8	72	71.7	71.5	70.7	69	62.3	59	-
CM 100-250B	125x100	75	100	91	91	90.5	89.7	88	85.5	84	83.3	81.5	78	71.7	68.5	48
CM 100-250A	125x100	90	125	100	100	99.5	98.7	97	94.5	93	92.3	90.5	87	80.7	77.5	57

100-315

2900rpm



PERFORMANCE CURVE

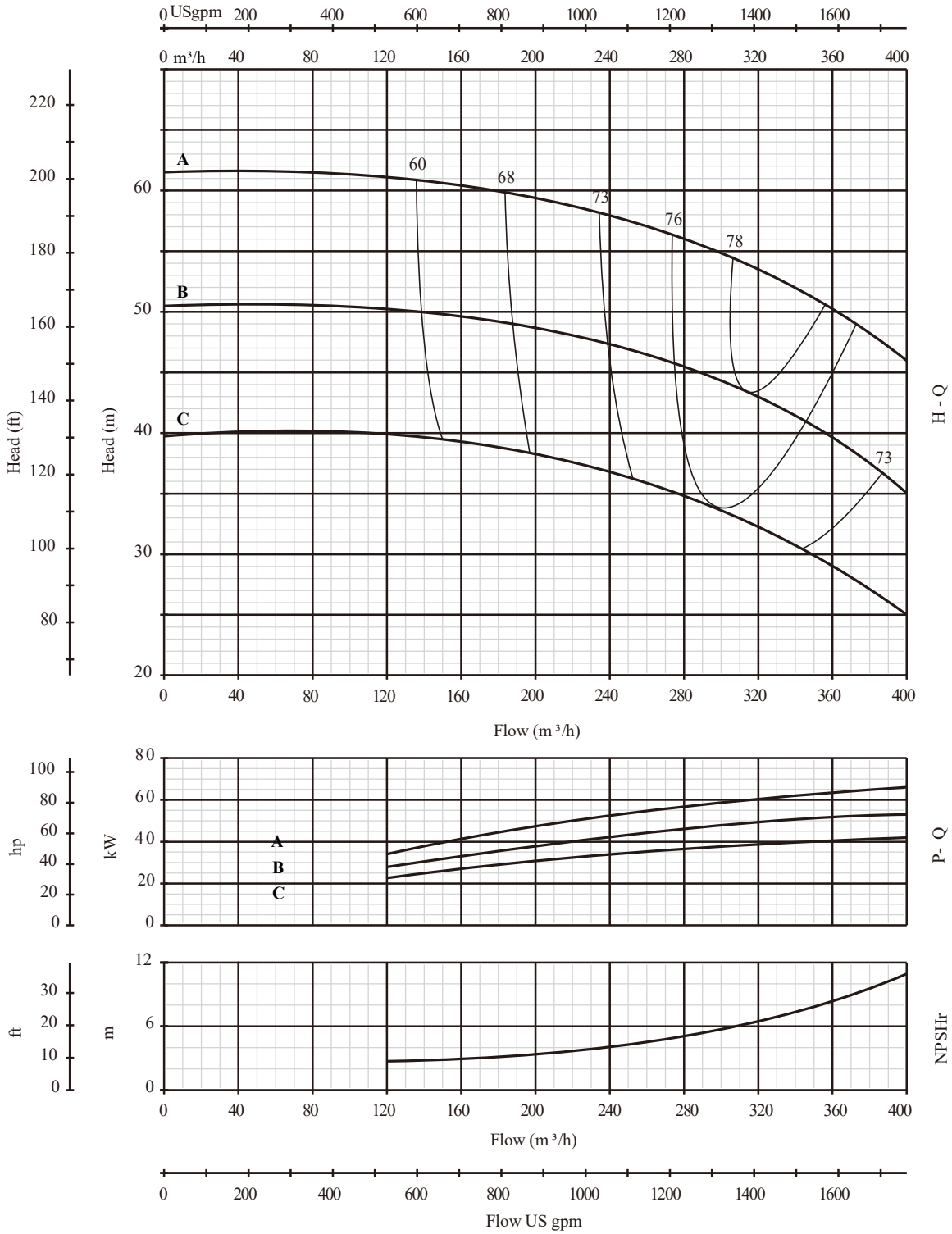
MODEL	DN	Power		Q=DELIVERY										
				us gpm 0	529	634	793	881	925	969	1057	1233	1322	1586
				l/min 0	2000	2400	3000	3333	3500	3667	4000	4667	5000	6000
				m³/h 0	120	144	180	200	210	220	240	280	300	360
	mm	kw	hp	H=Head (m)										
CM 100-315D	125x100	75	100	80	78.5	76.7	74	73	72.8	72.5	70.7	68	64	52
CM 100-315C	125x100	90	125	100	98.5	96.7	94	93	92.8	92.5	90.7	88	84	72
CM 100-315B	125x100	110	150	118	116.5	114.7	112	111	110.8	110.5	108.7	106	102	90
CM 100-315A	125x100	132	180	129	127.5	125.7	123	122	121.8	121.5	119.7	117	112	101
CM 100-315A1	125x100	160	220	148	146.5	144.7	142	141	140.8	140.5	138.7	136	132	120

MARO water pumps

125-200

2900rpm

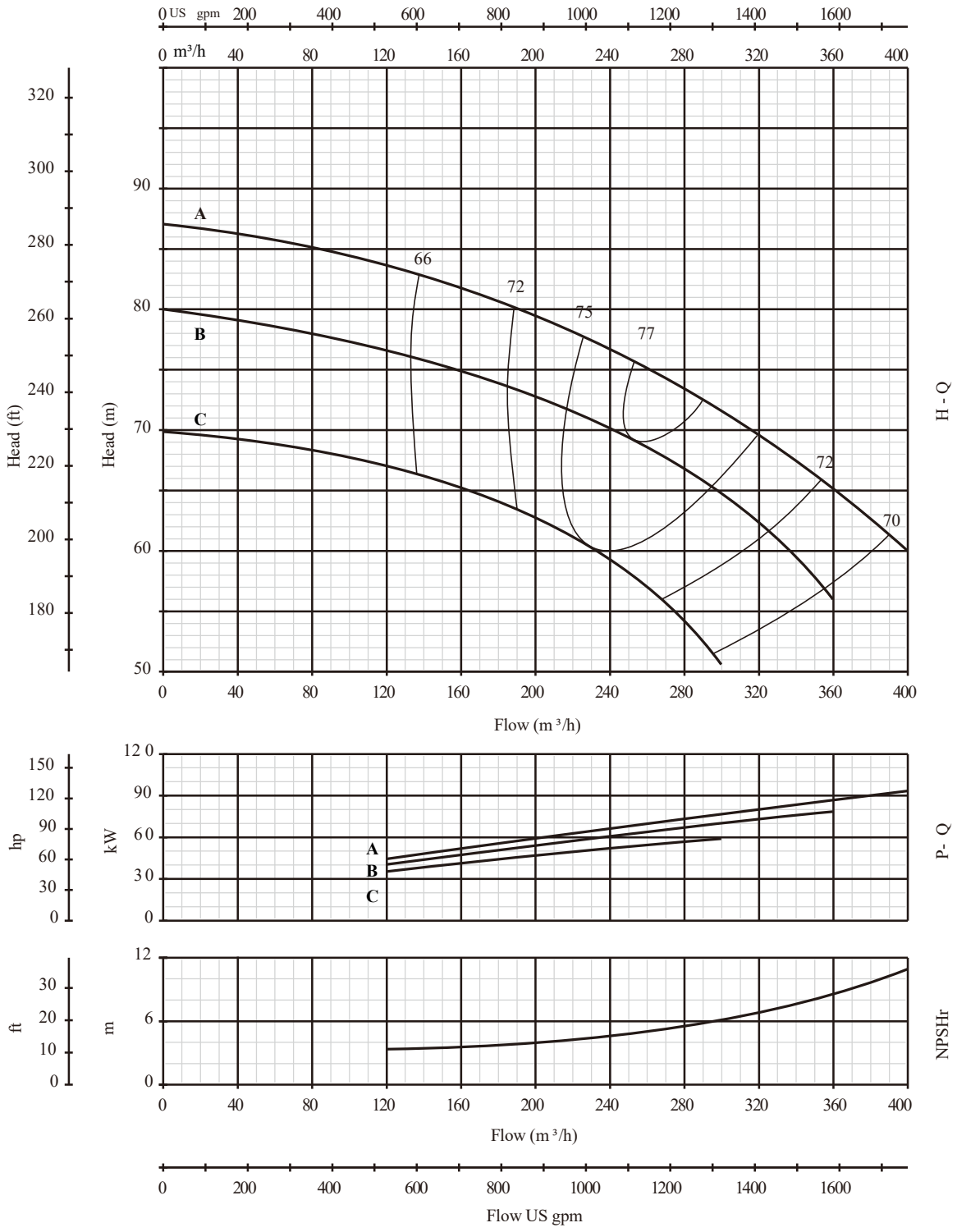
PERFORMANCE CURVE



MODEL	DN	Power		Q=DELIVERY											
				us gpm 0	529	634	793	881	925	969	1057	1233	1322	1586	1762
				l/min 0	2000	2400	3000	3333	3500	3667	4000	4667	5000	6000	6667
				m³/h 0	120	144	180	200	210	220	240	280	300	360	400
	mm	kw	hp	H=Head (m)											
CM 125-200C	150x125	45	60	39.8	39.3	39.2	39	38.9	38.9	38.8	37.5	35	34	28.6	25
CM 125-200B	150x125	55	75	50.5	49.3	49.2	49	48.9	48.9	48.8	47.5	45	44	38.6	35
CM 125-200A	150x125	75	100	61.5	60.3	60.2	60	59.9	59.9	59.8	58.5	56	55	49.6	46

125-250

2900rpm

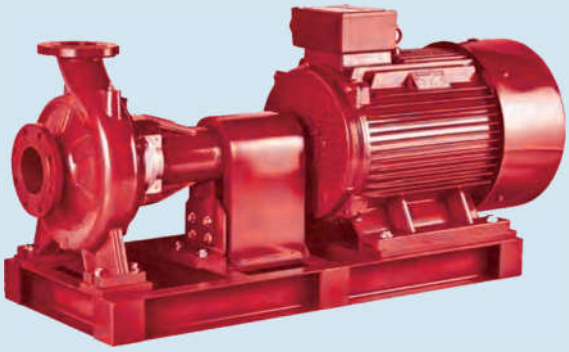


PERFORMANCE CURVE

MODEL	DN	Power		Q=DELIVERY											
				us gpm 0	529	634	793	881	925	969	1057	1233	1322	1586	1762
				l/min 0	2000	2400	3000	3333	3500	3667	4000	4667	5000	6000	6667
				m³/h 0	120	144	180	200	210	220	240	280	300	360	400
	mm	kw	hp	H=Head (m)											
CM 125-250C	150x125	55	75	70	67	66	64	63	62	61	59.5	54	50.5	-	-
CM 125-250B	150x125	75	100	80	76.5	75.5	74	73	72	71.5	70	67	65	56	-
CM 125-250A	150x125	90	125	87	84	82.5	81	79.5	79	78	77	73.5	71.5	65	60



CA/CA4



DESCRIPTION

- Complete range with a full series of end suction pumps
- Original design by MARO
- Outstanding reliability for operation in any application
- YE3 high efficient motor, with protection IP55 class F
- Pump case with anti-corrosive coating
- Customize casting logo on the bearing house as request
- Quality NSK bearing, wear resistance mechanical seal

APPLICATIONS

The impressive range end-suction pumps is compatible with an array of application areas, including water intake,heating,industrial pressure boosting,industrial liquid transfer,air-conditioning,district cooling, irrigation,fire fighting and many more.



MODEL CODE

For example

CA/CA4 32 - 250

- **250** =Nominal impeller size(mm)
- **32** =Discharge size(mm)
- **CA** =Pump type
  CA - 2 Pole
  CA4 - 4Pole

USING LIMITS

- Liquid temperature between **-10 ℃** and **+100 ℃**
- Ambient temperature between **-10 ℃** and **+50 ℃**
- Max. working pressure **16 bar**
- Continuous service **S1**

TECHNICAL SHEET

Model	CA/CA4	
Capacity	0-1000	m^3/h
Head	0-164	m
DN	32-150	mm
Speed	2900	rpm
T max	100	℃
Power	1.5-315	kW
Casing	Grey cast iron	
Impeller	Cast iron/AISI 304/Brass	
Shaft	45# steel/AISI 304	
Shaft seal	Mechanical Seal	
Bearing	Grease lubrication rolling bearing	

CA/CA4

End suction centrifugal pump

TECHNICAL DATA

50 Hz **n=2900 1/min**

MODEL	DN	Implr Φ	Power		Q=DELIVERY																		
					us gpm 0	26	40	66	79	106	119	159	185	211	238	317	370	396	476	529	608	793	925
					l/min 0	100	150	250	300	400	450	600	700	800	900	1200	1400	1500	1800	2000	2300	3000	3500
					m³/h 0	6	9	15	18	24	27	36	42	48	54	72	84	90	108	120	138	180	210
	mm	mm	kw	hp	H=Head (m)																		
CA 32-160	50x32	**142**	1.5	2	25.4	23.7	22.5	18.5	15.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 32-160	50x32	**158**	2.2	3	31	29.6	28.5	24.5	22	15	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 32-160	50x32	**168**	3	4	35	34.3	32.5	28	25.5	19	15	-	-	-	-	-	-	-	-	-	-	-	-
CA 32-200	50x32	**190**	3	4	44.2	42	39.8	35.2	32.2	24.6	19.8	-	-	-	-	-	-	-	-	-	-	-	-
CA 32-200	50x32	**204**	4	5.5	54.5	52	50	45.5	42.3	35	30.3	-	-	-	-	-	-	-	-	-	-	-	-
CA 32-250	50x32	**208**	5.5	7.5	60	59.5	59	55	50.2	34.5	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 32-250	50x32	**230**	7.5	10	69.5	69	68.5	66	63	53	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 32-250	50x32	**237**	9.2	12.5	75	75	74.5	72	69	59	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 32-250	50x32	**250**	11	15	90	89.5	88	82	78	66	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 32-250	50x32	**258**	15	20	97	96.5	96	90	86	73	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 40-160	65x40	**160**	3	4	31.8	-	-	-	29.5	27.5	26.3	21.5	17.5	-	-	-	-	-	-	-	-	-	-
CA 40-160	65x40	**170**	4	5.5	38	-	-	-	36	34	33	28.5	25	20.1	-	-	-	-	-	-	-	-	-
CA 40-200	65x40	**195**	5.5	7.5	46	-	-	-	43.8	41.3	40.1	35	30	-	-	-	-	-	-	-	-	-	-
CA 40-200	65x40	**209**	7.5	10	57	-	-	-	53.6	51.5	50	45	41	36.5	-	-	-	-	-	-	-	-	-
CA 40-250	65x40	**224**	9.2	12.5	64	-	-	-	59	56.5	55	49.5	45	39.8	-	-	-	-	-	-	-	-	-
CA 40-250	65x40	**230**	11	15	72	-	-	-	67.5	65	63.5	57.5	52.2	47	-	-	-	-	-	-	-	-	-
CA 40-250	65x40	**250**	15	20	84.5	-	-	-	79.3	77.3	75.2	70	66	61	-	-	-	-	-	-	-	-	-
CA 40-250	65x40	**258**	18.5	25	90	-	-	-	85.5	82.8	80.7	75.8	70.5	66.5	-	-	-	-	-	-	-	-	-
CA 40-315	65x40	**260**	18.5	25	95	-	-	-	95	93	92.5	87	81	-	-	-	-	-	-	-	-	-	-
CA 40-315	65x40	**275**	22	30	106	-	-	-	106	104	103.5	98	92	-	-	-	-	-	-	-	-	-	-
CA 40-315	65x40	**290**	30	40	120	-	-	-	120	118	117	115	112	-	-	-	-	-	-	-	-	-	-
CA 40-315	65x40	**322**	37	50	144	-	-	-	144	143	142	141	140	132	-	-	-	-	-	-	-	-	-
CA 40-315	65x40	**340**	45	60	160	-	-	-	160	160	159	158	157	152	-	-	-	-	-	-	-	-	-
CA 50-125	65x50	**123**	2.2	3	17	-	-	-	-	-	-	15.4	14	12.8	11.5	6.5	-	-	-	-	-	-	-
CA 50-125	65x50	**130**	3	4	20	-	-	-	-	-	-	18.8	18	17	15.6	11	-	-	-	-	-	-	-
CA 50-125	65x50	**139**	4	5.5	24	-	-	-	-	-	-	23.1	23	21.5	20.3	15.8	11.8	-	-	-	-	-	-
CA 50-160	65x50	**158**	5.5	7.5	32	-	-	-	-	-	-	30.6	30	28	26.6	20.5	14.8	-	-	-	-	-	-
CA 50-160	65x50	**170**	7.5	10	40	-	-	-	-	-	-	38	37	36	34.4	29	24	21	-	-	-	-	-
CA 50-200	65x50	**195**	9.2	12.5	50.5	-	-	-	-	-	-	46.8	45	43	40.9	32.5	26.7	-	-	-	-	-	-
CA 50-200	65x50	**204**	11	15	57.5	-	-	-	-	-	-	53.5	52	50	47.5	40	34	29	-	-	-	-	-
CA 50-200	65x50	**209**	15	20	62	-	-	-	-	-	-	58	56.5	54.5	52	44.5	39	35.5	-	-	-	-	-
CA 50-250	65x50	**228**	15	20	68.5	-	-	-	-	-	-	64	63	61.5	59	50	41	-	-	-	-	-	-
CA 50-250	65x50	**235**	18.5	25	79	-	-	-	-	-	-	75.8	74.8	74	71.5	63.5	55.5	47	-	-	-	-	-
CA 50-250	65x50	**250**	22	30	89.5	-	-	-	-	-	-	86	85.3	84	81.5	73.5	63.5	57	-	-	-	-	-
CA 50-250	65x50	**258**	30	40	95.5	-	-	-	-	-	-	92	91.3	90	87.5	79.5	70	63	-	-	-	-	-
CA 50-315	65x50	**264**	30	40	97	-	-	-	-	-	-	94	92	90.5	88	80	72	-	-	-	-	-	-
CA 50-315	65x50	**284**	37	50	114	-	-	-	-	-	-	111	109	107.5	105	97	89	84	-	-	-	-	-
CA 50-315	65x50	**306**	45	60	132	-	-	-	-	-	-	129	127	125.5	123	115	107	102	-	-	-	-	-
CA 50-315	65x50	**322**	55	75	146	-	-	-	-	-	-	143	141	139.5	137	129	121	116	-	-	-	-	-
CA 50-315	65x50	**340**	75	100	164	-	-	-	-	-	-	161	159	157.5	155	147	139	134	-	-	-	-	-
CA 65-125	80x65	**122**	4	5.5	19	-	-	-	-	-	-	-	-	17.3	16.8	14.5	13	11.8	-	-	-	-	-
CA 65-125	80x65	**132**	5.5	7.5	23	-	-	-	-	-	-	-	-	21.3	20.9	19	17.5	16.7	13.7	-	-	-	-
CA 65-125	80x65	**142**	7.5	10	27	-	-	-	-	-	-	-	-	26	25.6	24.5	23	22.5	20	18	-	-	-
CA 65-160	80x65	**155**	9.2	12.5	33	-	-	-	-	-	-	-	-	-	31.5	30	28	27.1	24	21.5	-	-	-
CA 65-160	80x65	**164**	11	15	36	-	-	-	-	-	-	-	-	-	34.5	33	31.5	30.8	28	25.5	-	-	-
CA 65-160	80x65	**183**	15	20	42	-	-	-	-	-	-	-	-	-	41	40	38.5	37.8	35	33	29.5	-	-
CA 65-200	80x65	**190**	15	20	45	-	-	-	-	-	-	-	-	-	45.5	43	41	40.2	36.5	34	-	-	-
CA 65-200	80x65	**198**	18.5	25	52	-	-	-	-	-	-	-	-	-	52.3	51	49	48.2	44.5	42	-	-	-
CA 65-200	80x65	**212**	22	30	59	-	-	-	-	-	-	-	-	-	59.5	58	56	55	52	49.5	44.5	-	-
CA 65-250	80x65	**225**	22	30	64.8	-	-	-	-	-	-	-	-	-	64.7	62	60	58.5	53	50	-	-	-
CA 65-250	80x65	**244**	30	40	80	-	-	-	-	-	-	-	-	-	79.8	77.5	75.5	74.5	70	66	58	-	-
CA 65-250	80x65	**258**	37	50	92	-	-	-	-	-	-	-	-	-	90.5	88.5	87	85	80.5	78	68	-	-
CA 65-315	80x65	**262**	45	60	102	-	-	-	-	-	-	-	-	-	99.2	97	95	94.5	92.4	90	83	-	-
CA 65-315	80x65	**290**	55	75	122	-	-	-	-	-	-	-	-	-	119.2	117.4	115.7	114.5	112.5	110	103	76	-
CA 65-315	80x65	**317**	75	100	141	-	-	-	-	-	-	-	-	-	139.8	137.3	135.6	134.5	132.5	130	122	96	65.5
CA 65-315	80x65	**328**	90	125	151	-	-	-	-	-	-	-	-	-	149.8	147.3	145.6	144.5	142.5	140	132	106	75.5
CA 80-125	100x80	**122**	4	5.5	17	-	-	-	-	-	-	-	-	16.5	15.9	14.3	13.5	11.6	10	7.5	-	-	-
CA 80-125	100x80	**132**	5.5	7.5	21	-	-	-	-	-	-	-	-	20.5	20	19	18	16.5	15	12.5	9.5	-	-
CA 80-125	100x80	**142**	7.5	10	26	-	-	-	-	-	-	-	-	25	25	24.5	23.8	22.5	21.5	19.5	16.5	-	-

TECHNICAL DATA

50 Hz **n=2900 1/min**

MODEL	DN	Implr Φ	Power		Q=DELIVERY																		
					us gpm 0	264	396	529	634	793	881	925	969	1057	1233	1322	1586	1762	2203	2643	2907	3524	4405
					l/min 0	1000	1500	2000	2400	3000	3333	3500	3667	4000	4667	5000	6000	6667	8333	10000	11000	13333	16667
					m³/h 0	60	90	120	144	180	200	210	220	240	280	300	360	400	500	600	660	800	1000
	mm	mm	kw	hp	H=Head (m)																		
CA 80-160	100x80	160	11	15	28	27	27.3	24.5	21.1	16	-	-	-	-	-	-	-	-	-	-	-	-	-
CA 80-160	100x80	168	15	20	34	32.6	32.5	30.2	27	22.1	18.5	16.7	-	-	-	-	-	-	-	-	-	-	-
CA 80-160	100x80	180	18.5	25	39	38.5	38	36.7	33.6	28.8	25.3	23.5	-	-	-	-	-	-	-	-	-	-	-
CA 80-160	100x80	190	22	30	44	43.5	43	41.7	38.6	33.8	30.3	28.5	-	-	-	-	-	-	-	-	-	-	-
CA 80-200	100x80	190	22	30	48	47.7	47.5	43.5	39.2	32.5	27.2	24.5	-	-	-	-	-	-	-	-	-	-	-
CA 80-200	100x80	215	30	40	60	59.7	59.5	57	53.1	47	42.7	40.5	-	-	-	-	-	-	-	-	-	-	-
CA 80-250	100x80	226	37	50	71.5	70.9	70.5	65.5	59.3	51	43.2	38.5	-	-	-	-	-	-	-	-	-	-	-
CA 80-250	100x80	240	45	60	88	86.7	86	83.6	78.5	70.5	60	51	-	-	-	-	-	-	-	-	-	-	-
CA 80-250	100x80	258	55	75	94.5	94.5	94.5	91.8	87	79.5	72.1	68.3	-	-	-	-	-	-	-	-	-	-	-
CA 80-250	100x80	276	75	100	108.5	108.5	108.5	105.8	101	93.5	86.1	82.3	-	-	-	-	-	-	-	-	-	-	-
CA 80-315	100x80	255	45	60	85	84	82.6	82	78	68.3	61	56	-	-	-	-	-	-	-	-	-	-	-
CA 80-315	100x80	270	55	75	98	97	95.6	95	91	81.3	74	69	-	-	-	-	-	-	-	-	-	-	-
CA 80-315	100x80	295	75	100	124	123	121.6	121	117	107.3	100	95	90	80.8	-	-	-	-	-	-	-	-	-
CA 80-315	100x80	320	90	125	144	143	141.6	141	137	127.3	120	115	110	100.8	-	-	-	-	-	-	-	-	-
CA 80-315	100x80	328	110	150	153	152	150.6	150	146	136.3	129	124	119	109.8	-	-	-	-	-	-	-	-	-
CA 100-160	125x100	167	15	20	35	33.5	32.5	30	27.8	24.5	21.5	20	18.3	15	-	-	-	-	-	-	-	-	-
CA 100-160	125x100	176	18.5	25	38.5	37.5	36.5	34.3	32.2	29	25.7	24	22	18	-	-	-	-	-	-	-	-	-
CA 100-160	125x100	190	22	30	43	41	40	37.6	35.2	31.5	28.5	27	25.3	22	-	-	-	-	-	-	-	-	-
CA 100-200	125x100	185	22	30	38.5	36.7	35.7	33.8	31.7	28.5	26.8	26	25	22.9	16.3	13	-	-	-	-	-	-	-
CA 100-200	125x100	195	30	40	44.5	42.5	42	40.2	38.8	36.7	34.2	33	31.7	29	21.7	18	-	-	-	-	-	-	-
CA 100-200	125x100	208	37	50	55	53	51	50.6	49.2	47	45	44	42.8	40.5	32.8	29	-	-	-	-	-	-	-
CA 100-200	125x100	218	45	60	61	59	57	56.6	55.2	53	51	50	48.8	46.5	38.8	35	-	-	-	-	-	-	-
CA 100-250	125x100	220	45	60	65	65	64	63	61	58	56	55	53.3	50	39	33.5	-	-	-	-	-	-	-
CA 100-250	125x100	240	55	75	77	76	75.5	75	73.8	72	71.7	71.5	70.7	69	62.3	59	-	-	-	-	-	-	-
CA 100-250	125x100	257	75	100	91	91	90.5	89.7	88	85.5	84	83.3	81.5	78	71.7	68.5	48	-	-	-	-	-	-
CA 100-250	125x100	270	90	125	100	100	99.5	98.7	97	94.5	93	92.3	90.5	87	80.7	77.5	57	-	-	-	-	-	-
CA 100-315	125x100	255	75	100	80	-	-	78.5	76.7	74	73	72.8	72.5	70.7	68	64	52	-	-	-	-	-	-
CA 100-315	125x100	280	90	125	100	-	-	98.5	96.7	94	93	92.8	92.5	90.7	88	84	72	-	-	-	-	-	-
CA 100-315	125x100	300	110	150	118	-	-	116.5	114.7	112	111	110.8	110.5	108.7	106	102	90	-	-	-	-	-	-
CA 100-315	125x100	315	132	180	129	-	-	127.5	125.7	123	122	121.8	121.5	119.7	117	112	101	-	-	-	-	-	-
CA 100-315	125x100	328	160	220	148	-	-	146.5	144.7	142	141	140.8	140.5	138.7	136	132	120	-	-	-	-	-	-
CA 125-200	150x125	190	45	60	39.8	-	-	39.3	39.2	39	38.9	38.9	38.8	37.5	35	34	28.6	25	-	-	-	-	-
CA 125-200	150x125	205	55	75	50.5	-	-	49.3	49.2	49	48.9	48.9	48.8	47.5	45	44	38.6	35	-	-	-	-	-
CA 125-200	150x125	218	75	100	61.5	-	-	60.3	60.2	60	59.9	59.9	59.8	58.5	56	55	49.6	46	-	-	-	-	-
CA 125-250	150x125	240	55	75	70	-	-	67	66	64	63	62	61	59.5	54	50.5	-	-	-	-	-	-	-
CA 125-250	150x125	255	75	100	80	-	-	76.5	75.5	74	73	72	71.5	70	67	65	56	-	-	-	-	-	-
CA 125-250	150x125	265	90	125	87	-	-	84	82.5	81	79.5	79	78	77	73.5	71.5	65	60	-	-	-	-	-
CA 125-250	150x125	274	110	150	97	-	-	94	92.8	91	90	89.3	88.7	87.4	84	83.5	76	71	-	-	-	-	-
CA 125-250H	150x125	220	90	125	63.2	-	-	62.4	62	61.6	61.2	61.2	61.2	60.8	60	59.6	57.2	55.2	47.2	-	-	-	-
CA 125-250H	150x125	240	110	150	74	-	-	73.2	72.8	72.4	72	72	72	71.6	70.8	70.4	68	66	58	49.6	-	-	-
CA 125-250H	150x125	260	132	180	84	-	-	83.2	82.8	82.4	82	82	82	81.6	80.8	80.4	78	76	68	59.6	-	-	-
CA 125-250H	150x125	280	160	220	98	-	-	97.2	96.8	96.4	96	96	96	95.6	94.8	94.4	92	90	82	73.6	67.6	-	-
CA 125-315	150x125	280	132	180	96	-	-	-	-	-	95.2	95.1	95	94.8	94	93.5	91.8	88.5	76	-	-	-	-
CA 125-315	150x125	295	160	220	112	-	-	-	-	-	111.2	111.1	111	110.8	110	109.5	107.8	106	97.5	80	-	-	-
CA 125-315	150x125	310	185	250	125	-	-	-	-	-	124.2	124.1	124	123.8	123	122.5	120.8	119	109	90	-	-	-
CA 125-315	150x125	328	200	270	136	-	-	-	-	-	135.2	135.1	135	134.8	134	133.5	131.8	130	120	101	-	-	-
CA 150-200	200x150	205	75	100	50	-	-	-	-	-	-	-	48	47.9	47.6	47.2	45.8	44.6	41	35.5	30.5	-	-
CA 150-200	200x150	217	90	125	56	-	-	-	-	-	-	-	54	53.9	53.6	53.2	52.7	52.4	48	42.8	39.2	30	-
CA 150-200	200x150	235	110	150	65.2	-	-	-	-	-	-	-	62	61.7	61.2	60.8	59.8	59.2	57.2	54	51.6	42	-
CA 150-200	200x150	245	132	180	71	-	-	-	-	-	-	-	68.5	67.7	67.2	66.8	65.8	65.2	63.2	60	57.6	48	-
CA 150-200	200x150	258	160	220	77	-	-	-	-	-	-	-	74	74	73.2	72.8	71.8	71.2	69.2	66	63.6	54	-
CA 150-250	200x150	242	110	150	67	-	-	-	-	-	-	-	-	-	-	63	61.7	60	55.8	51.8	48	37.8	-
CA 150-250	200x150	265	132	180	80.2	-	-	-	-	-	-	-	-	-	-	78	76.3	73.5	70	65	62	53	37.8
CA 150-250	200x150	280	160	220	90	-	-	-	-	-	-	-	-	-	-	88	86	85	82	77.2	75	66	48
CA 150-250	200x150	295	200	270	100	-	-	-	-	-	-	-	-	-	-	97	96	95	92	87.2	85	76	57
CA 150-315	200x150	287	185	250	92	-	-	-	-	-	-	-	-	-	-	90	88.3	87.2	82.8	77.8	72	60	-
CA 150-315	200x150	305	250	340	111	-	-	-	-	-	-	-	-	-	-	110	108	106	102	96	92	81	62.2
CA 150-315	200x150	315	280	380	124	-	-	-	-	-	-	-	-	-	-	121	119	118	114	109	105	94	73.6
CA 150-315	200x150	327	315	430	135	-	-	-	-	-	-	-	-	-	-	134	133	132	128	122	118	106	85

TECHNICAL DATA

50 Hz **n=1450 1/min**

MODEL	DN	Implr Φ	Power		Q=DELIVERY																	
					us gpm	0	106	119	132	159	185	198	220	264	317	370	396	423	476	617	661	881	1101
					l/min	0	400	450	500	600	700	750	833	1000	1200	1400	1500	1600	1800	2333	2500	3333	4167
					m³/h	0	24	27	30	36	42	45	50	60	72	84	90	96	108	140	150	200	250
	mm	mm	kw	hp	H=Head (m)																	
CA4 65-160	80x65	155	1.1	1.5	8	7.5	7.4	7.3	7	6.6	6.3	5.8	4.8	3.4	-	-	-	-	-	-	-	-
CA4 65-160	80x65	164	1.5	2	9	8.5	8.4	8.3	8	7.6	7.4	6.9	6	4.6	-	-	-	-	-	-	-	-
CA4 65-160	80x65	183	2.2	3	10.3	9.9	9.9	9.8	9.5	9.2	9	8.6	7.8	6.5	5	-	-	-	-	-	-	-
CA4 65-200	80x65	190	1.5	2	10	-	-	9.6	9.1	8.5	8.2	7.6	6.4	4.6	-	-	-	-	-	-	-	-
CA4 65-200	80x65	198	2.2	3	12.4	-	-	12.2	11.8	11.3	11	10.4	9.3	7.6	-	-	-	-	-	-	-	-
CA4 65-200	80x65	212	3	4	14.4	-	-	14.3	13.8	13.4	13.1	12.5	11.3	9.6	7.5	-	-	-	-	-	-	-
CA4 65-250	80x65	225	3	4	15.4	-	-	14.6	13.9	13.1	12.6	11.6	9.7	6.7	-	-	-	-	-	-	-	-
CA4 65-250	80x65	244	4	5.5	19	-	-	18.3	17.8	17.2	16.9	16.1	14.4	11.7	-	-	-	-	-	-	-	-
CA4 65-250	80x65	258	5.5	7.5	22.3	-	-	21.3	20.9	20.3	19.9	19.2	17.7	15.1	12	-	-	-	-	-	-	-
CA4 65-315	80x65	262	4	5.5	18.6	-	-	17.9	17.3	16.7	16.2	15.2	13.3	-	-	-	-	-	-	-	-	-
CA4 65-315	80x65	280	5.5	7.5	22.1	-	-	-	21.2	20.6	20.2	19.2	17.3	14	-	-	-	-	-	-	-	-
CA4 65-315	80x65	300	7.5	10	26.5	-	-	-	25.6	25.2	24.9	24.3	23	20.8	17.6	-	-	-	-	-	-	-
CA4 65-315	80x65	322	11	15	34.8	-	-	-	34.2	33.9	33.7	33.2	32.1	30.2	27.4	25.6	23.7	18.7	-	-	-	-
CA4 65-315	80x65	328	15	20	40	-	-	-	39.4	39.1	38.9	38.4	37.3	35.4	32.6	30.8	28.9	23.9	-	-	-	-
CA4 80-160	100x80	168	1.5	2	7.5	-	-	-	-	-	7.1	6.9	6.4	5.5	4.6	4.1	3.5	-	-	-	-	-
CA4 80-160	100x80	190	2.2	3	9	-	-	-	-	-	8.6	8.4	8	7.4	6.6	6.2	5.7	5	-	-	-	-
CA4 80-200	100x80	190	3	4	11.8	-	-	-	-	-	11	10.7	10.1	9.2	8	7.3	6.6	-	-	-	-	-
CA4 80-200	100x80	215	4	5.5	14.2	-	-	-	-	-	13.8	13.6	13.3	12.4	11.3	10.7	10	9	-	-	-	-
CA4 80-250	100x80	226	4	5.5	17	-	-	-	-	-	16	15.6	14.8	13.2	11.4	10.2	9	-	-	-	-	-
CA4 80-250	100x80	240	5.5	7.5	20.5	-	-	-	-	-	19.5	19.1	18.4	17.2	15.5	14.5	13.5	11.1	-	-	-	-
CA4 80-250	100x80	258	7.5	10	24	-	-	-	-	-	23.5	23.2	22.5	21.3	19.9	19	18.1	16	-	-	-	-
CA4 80-250	100x80	276	11	15	28.2	-	-	-	-	-	27.5	27.2	26.5	25.3	23.9	23	22.1	20	15	-	-	-
CA4 80-315	100x80	255	5.5	7.5	19.7	-	-	-	-	-	19.1	18.8	18.1	16.8	15	13.9	12.8	10.1	-	-	-	-
CA4 80-315	100x80	270	7.5	10	24.6	-	-	-	-	-	23.9	23.6	23	21.9	20.4	19.5	18.6	16.3	-	-	-	-
CA4 80-315	100x80	290	11	15	29.9	-	-	-	-	-	29.4	29.2	28.8	28.1	27	26.3	25.5	23.6	16.5	13.5	-	-
CA4 80-315	100x80	328	15	20	36.8	-	-	-	-	-	36.4	36.1	35.6	34.7	33.6	33	32.4	30.9	25.3	23	-	-
CA4 80-400	100x80	335	18.5	25	40.3	-	-	-	-	-	39.7	39.5	39.1	38.4	37.3	36.6	35.9	34.1	27.3	24.5	-	-
CA4 80-400	100x80	355	22	30	45.1	-	-	-	-	-	44.6	44.5	44.2	43.6	42.6	42	41.4	39.8	33.4	30.7	-	-
CA4 80-400	100x80	386	30	40	55.1	-	-	-	-	-	54.7	54.6	54.4	54	53.3	52.8	52.2	50.9	45.4	43.2	-	-
CA4 80-400	100x80	396	37	50	59	-	-	-	-	-	58.7	58.6	58.4	58	57.3	56.8	56.2	54.9	49.4	47.2	37.5	-
CA4 100-160	125x100	140	2.2	3	5.9	-	-	-	-	-	5.8	5.7	5.5	5.3	5	4.9	4.6	4.3	-	-	-	-
CA4 100-160	125x100	165	3	4	8.2	-	-	-	-	-	8.1	8	7.9	7.6	7.3	7.2	6.9	6.5	5.1	-	-	-
CA4 100-160	125x100	190	4	5.5	11.5	-	-	-	-	-	11.5	11.4	11.2	10.9	10.6	10.5	10.2	9.8	8.4	7.8	-	-
CA4 100-200	125x100	185	4	5.5	11.8	-	-	-	-	-	11.7	11.6	11.4	11	10.5	10.3	9.7	9.1	6.8	5.9	-	-
CA4 100-200	125x100	195	5.5	7.5	13.3	-	-	-	-	-	13.2	13.2	13	12.7	12.4	12.3	12	11.5	9.6	8.8	5.7	-
CA4 100-200	125x100	210	5.5	7.5	14.8	-	-	-	-	-	14.7	14.7	14.5	14.2	13.9	13.8	13.5	13	11.1	10.3	7.2	-
CA4 100-200	125x100	218	9.2	12.5	16.5	-	-	-	-	-	16.4	16.4	16.2	15.9	15.6	15.5	15.2	14.7	12.8	12	8.9	-
CA4 100-250	125x100	220	5.5	7.5	15.9	-	-	-	-	-	15.8	15.7	15.5	14.9	14.4	14.1	13.4	12.5	9.2	7.9	-	-
CA4 100-250	125x100	240	7.5	10	19.5	-	-	-	-	-	19.5	19.4	19.2	18.8	18.3	18.1	17.6	16.9	14	12.7	-	-
CA4 100-250	125x100	257	11	15	24.3	-	-	-	-	-	24.3	24.2	24.1	23.7	23.3	23.1	22.7	22.1	19.7	18.6	11.4	-
CA4 100-250	125x100	270	15	20	27.8	-	-	-	-	-	27.8	27.7	27.6	27.2	26.8	26.6	26.2	25.6	23.2	22.1	14.9	-
CA4 100-315	125x100	280	15	20	28	-	-	-	-	-	-	27.8	27.6	27.2	26.9	26.7	26.2	25.6	23.1	22.1	14.9	-
CA4 100-315	125x100	300	18.5	25	31	-	-	-	-	-	-	30.8	30.6	30.2	29.9	29.7	29.2	28.6	26.1	25.1	17.9	-
CA4 100-315	125x100	315	22	30	35	-	-	-	-	-	-	34.4	34.2	33.8	33.5	33.3	32.8	32.2	30	29	24	17.3
CA4 100-315	125x100	328	30	40	37	-	-	-	-	-	-	36.8	36.7	36.4	36.1	35.9	35.5	35.1	33.2	32.4	28	21.3
CA4 100-400	125x100	358	30	40	46.4	-	-	-	-	-	-	-	46	46	46	46	45	44	42	40	29.6	-
CA4 100-400	125x100	378	37	50	51.8	-	-	-	-	-	-	-	51.3	51.2	51.1	51	50.5	49.5	47.5	46	37.3	-
CA4 100-400	125x100	396	45	60	57.1	-	-	-	-	-	-	-	56.7	56.4	56.1	56	56	55	53	52	45	32.1
CA4 100-400	125x100	420	55	75	64	-	-	-	-	-	-	-	63.7	63.4	63.1	63	63	62	60	59	52	39.1

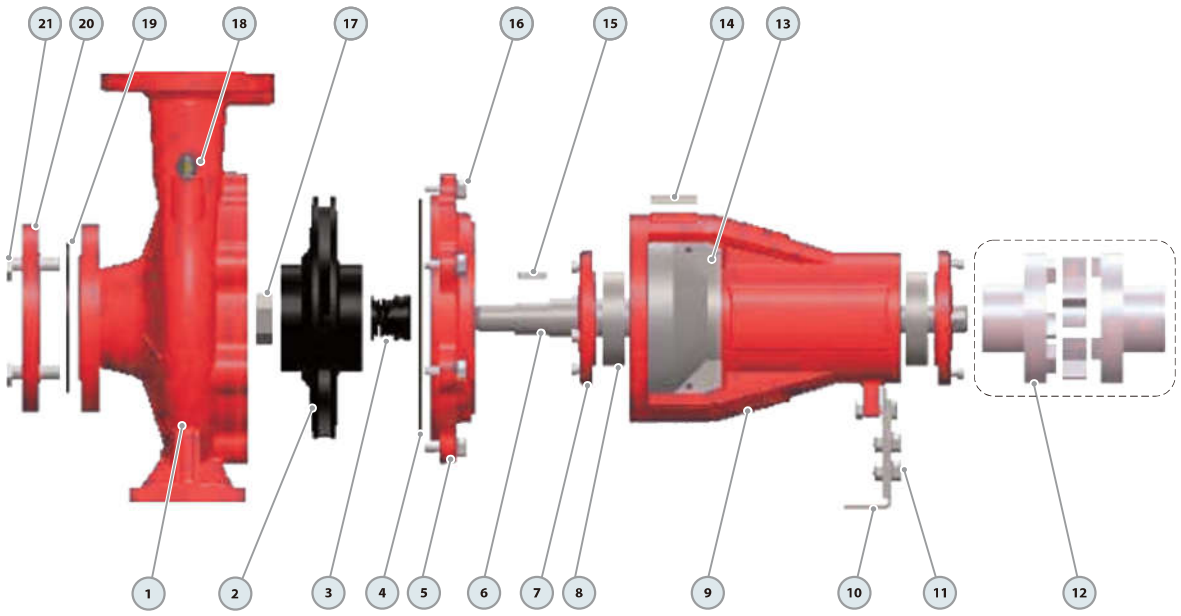
TECHNICAL DATA

50 Hz **n=1450 1/min**

MODEL	DN	Implr Φ	Power		Q=DELIVERY															
					us gpm 0	132	154	176	220	264	396	441	485	617	661	881	1101	1322	1762	2203	2643
					l/min 0	500	583	667	833	1000	1500	1667	1833	2333	2500	3333	4167	5000	6667	8333	10000
					m³/h 0	30	35	40	50	60	90	100	110	140	150	200	250	300	400	500	600
	mm	mm	kw	hp	H=Head (m)																
CA4 125-200	150x125	190	5.5	7.5	11.4	11.1	11.1	11	10.9	10.8	10.2	10	9.7	8.9	8.6	6.9	-	-	-	-	-
CA4 125-200	150x125	205	7.5	10	14.1	13.9	13.8	13.8	13.7	13.6	13.1	12.9	12.7	11.9	11.6	9.6	-	-	-	-	-
CA4 125-200	150x125	218	11	15	18.1	17.9	17.8	17.8	17.7	17.6	17.1	16.9	16.7	15.9	15.6	13.6	9.8	-	-	-	-
CA4 125-250	150x125	215	7.5	10	15.4	-	-	-	-	15.3	15	14.8	14.6	13.6	13.1	-	-	-	-	-	-
CA4 125-250	150x125	240	11	15	19.4	-	-	-	-	19.3	19.1	19	18.9	18.1	17.8	15.3	11.7	-	-	-	-
CA4 125-250	150x125	265	15	20	23.2	-	-	-	-	23.3	23.1	23	22.9	22	22	19.8	16.5	12.3	-	-	-
CA4 125-250	150x125	274	18.5	25	25.6	-	-	-	-	25.5	25.5	25.4	25.3	24.9	24.7	23	20.3	16.5	-	-	-
CA4 125-315	150x125	280	18.5	25	27.3	-	-	-	-	-	-	26.9	26.7	25.9	25.6	23.3	19.7	14.9	-	-	-
CA4 125-315	150x125	295	22	30	30	-	-	-	-	-	-	29.7	29.6	28.9	28.6	26.5	23.2	18.4	-	-	-
CA4 125-315	150x125	310	30	40	35.6	-	-	-	-	-	-	35.4	35.3	34.8	34.6	32.9	30.1	26.1	-	-	-
CA4 125-315	150x125	328	37	50	38.2	-	-	-	-	-		38	37.9	37.4	37.2	35.7	33.1	29.4	17.8	-	-
CA4 125-400	150x125	350	30	40	41	-	-	-	-	-	41	40.5	40.3	39.2	38.6	34.4	27.5	18.3	-	-	-
CA4 125-400	150x125	370	37	50	46.2	-	-	-	-	-	46	45.7	45.5	44.6	44.2	40.7	34.8	26.5	-	-	-
CA4 125-400	150x125	390	45	60	51.4	-	-	-	-	-	51	50.9	50.8	50.1	49.8	47	42.2	34.8	-	-	-
CA4 125-400	150x125	410	55	75	56.5	-	-	-	-	-	56.3	56.3	56.2	55.9	55.7	53.8	50.3	44.7	26.7	-	-
CA4 125-400	150x125	425	75	100	64.5	-	-	-	-	-	64.3	64.3	64.2	63.9	63.7	61.8	58.3	52.7	34.7	-	-
CA4 125-400	150x125	440	90	125	70	-	-	-	-	-	69.8	69.8	69.7	69.4	69.2	67.3	63.8	58.2	40.2	-	-
CA4 150-200	200x150	225	11	15	14	-	-	-	-	-	-	-	13.5	13.4	13.3	13.1	12.9	11.7	7.8	-	-
CA4 150-200	200x150	240	15	20	16.3	-	-	-	-	-	-	-	15.5	15.3	15.2	14.8	14.3	13.5	11.1	-	-
CA4 150-200	200x150	250	18.5	25	18.3	-	-	-	-	-	-	-	17.5	17.3	17.2	16.8	16.3	15.5	13.1	10	-
CA4 150-200	200x150	258	22	30	20.3	-	-	-	-	-	-	-	19.5	19.3	19.2	18.8	18.3	17.5	15.1	12	-
CA4 150-250	200x150	242	15	20	17.5	-	-	-	-	-	-	-	-	-	16.8	15.9	14.7	13.2	9.2	-	-
CA4 150-250	200x150	265	18.5	25	21.3	-	-	-	-	-	-	-	-	-	20.8	20	18.9	17.5	13.8	8.7	-
CA4 150-250	200x150	280	22	30	24	-	-	-	-	-	-	-	-	-	23.6	23	22	20.8	17.1	12	-
CA4 150-250	200x150	295	30	40	25.5	-	-	-	-	-	-	-	-	-	25	24.5	23.5	22	18.8	13.8	-
CA4 150-315	200x150	287	30	40	30.2	-	-	-	-	-	-	-	-	-	29.7	29	27.9	26.4	22.3	-	-
CA4 150-315	200x150	305	37	50	33.6	-	-	-	-	-	-	-	-	-	33.5	32.7	31.7	30.4	26.7	21.4	-
CA4 150-315	200x150	327	45	60	37.7	-	-	-	-	-	-	-	-	-	37.6	36.9	35.9	34.7	31.3	26.5	-
CA4 150-315	200x150	340	55	75	40	-	-	-	-	-	-	-	-	-	40	39.3	38.4	37.2	33.9	29.4	-
CA4 150-315	200x150	365	75	100	47	-	-	-	-	-	-	-	-	-	47	46.3	45.4	44.2	40.9	36.4	29
CA4 150-400	200x150	360	55	75	48.2	-	-	-	-	-	-	-	-	47.7	48	46	45	42	36.8	29.2	-
CA4 150-400	200x150	385	75	100	55.4	-	-	-	-	-	-	-	-	55	55	54	53	51	47	41	32.2
CA4 150-400	200x150	400	90	125	59.5	-	-	-	-	-	-	-	-	59	59	58	57	56	52	46	37.7
CA4 150-400	200x150	420	110	150	65.5	-	-	-	-	-	-	-	-	65	65	64	63	62	58	52	43.7
CA4 150-400	200x150	440	132	180	72	-	-	-	-	-	-	-	-	71.5	71.5	70.5	69.5	68.5	64.5	58.5	50.2

MODEL	DN	Implr Φ	Power		Q=DELIVERY														
					us gpm 0	881	1322	1762	2203	2643	3084	3524	3965	4405	4846	5286	5727	6167	6608
					l/min 0	3333	5000	6667	8333	10000	11667	13333	15000	16667	18333	20000	21667	23333	25000
					m³/h 0	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
	mm	mm	kw	hp	H=Head (m)														
CA4 200-250	250x200	270	37	50	23	22	21	19.8	18.3	16.1	12.8	9.3	-	-	-	-	-	-	-
CA4 200-250	250x200	290	45	60	26	25	24	22.8	21.3	19.1	15.8	12.3	-	-	-	-	-	-	-
CA4 200-250	250x200	310	55	75	30.7	29.7	28.7	27.5	26	23.8	20.5	17	-	-	-	-	-	-	-
CA4 200-315	250x200	310	55	75	31.1	31	30	29.3	27.5	25	21.3	16	-	-	-	-	-	-	-
CA4 200-315	250x200	330	75	100	35.1	35	34	33.3	31.5	29	25.3	20	-	-	-	-	-	-	-
CA4 200-315	250x200	360	90	125	42.1	42	41	40.3	38.5	36	32.3	27	-	-	-	-	-	-	-
CA4 200-400	250x200	350	75	100	41	40.9	40.4	38.9	37.4	34.9	32.9	28.9	-	-	-	-	-	-	-
CA4 200-400	250x200	370	90	125	46.5	46.4	45.9	44.4	42.9	40.4	38.4	34.4	-	-	-	-	-	-	-
CA4 200-400	250x200	395	110	150	52.4	52.3	51.8	50.3	48.8	46.3	44.3	40.3	-	-	-	-	-	-	-
CA4 200-400	250x200	420	132	180	60.1	60	59.5	58	56.5	54	52	48	40	-	-	-	-	-	-
CA4 250-315	300x250	320	90	125	30.5	-	-	29	28.3	28	27.6	27	26.4	25.8	24.8	23	21.8	-	-
CA4 250-315	300x250	340	110	150	34.5	-	-	33	32.3	32	31.6	31	30.4	29.8	28.8	27	25.8	-	-
CA4 250-315	300x250	360	132	180	38.5	-	-	37	36.3	36	35.6	35	34.4	33.8	32.8	31	29.8	28	-
CA4 250-315	300x250	390	160	220	45	-	-	43.5	42.8	42.5	42.1	41.5	40.9	40.3	39.3	37.5	36.3	34.5	-
CA4 250-400	300x250	365	160	220	43	-	-	42	41.2	40.8	40	39	38	37	36	34	32.5	30	-
CA4 250-400	300x250	380	185	250	47	-	-	46	45.2	44.8	44	43	42	41	40	38	36.5	34	-
CA4 250-400	300x250	400	200	270	53	-	-	52	51.2	50.8	50	49	48	47	46	44	42.5	40	38
CA4 250-400	300x250	420	220	300	58	-	-	57	56.2	55.8	55	54	53	52	51	49	47.5	45	43
CA4 250-400	300x250	448	250	340	66	-	-	65	64.2	63.8	63	62	61	60	59	57	55.5	53	51

MATERIAL DESCRIPTION

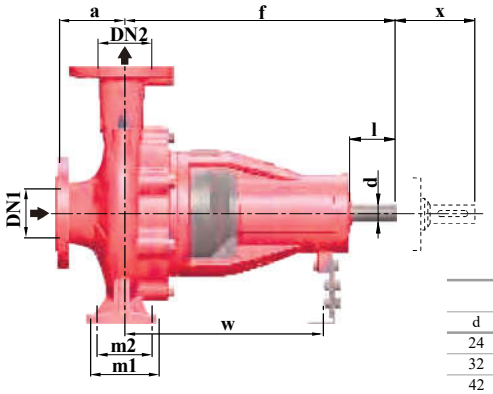


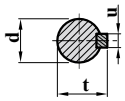
No.	Description	Material
1	Pump Case	Cast iron
2	Impeller	SS304/Cast iron
3	Mechanical Seal	SiC/Carbon/SS304
4	O-ring	Rubber
5	Connection	Cast iron
6	Shaft	SS304/45# Steel
7	Bearing Cover	Cast iron

No.	Description	Material
8	Bearing	Ball Bearing
9	Support Case	Cast iron
10	Support Foot	Iron
11	Foot Bolt	Steel
12	Coupling(Optional)	Steel
13	Case Cover	SS304
14	Nameplate	Aluminum

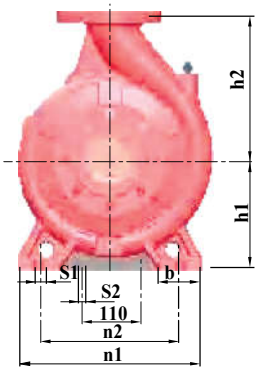
No.	Description	Material
15	Impeller Key	Iron
16	Connection Bolt	Steel
17	Impeller Nut	Galvanizated Steel
18	Release Valve	Brass
19	Gasket	Rubber
20	Counter Flange	Galvanizated Cast iron
21	Flange Bolt	Steel

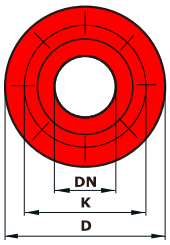
DIMENSIONS AND WEIGHT





mm		
d	u	t
24	8	27
32	10	35
42	12	45
60	18	64



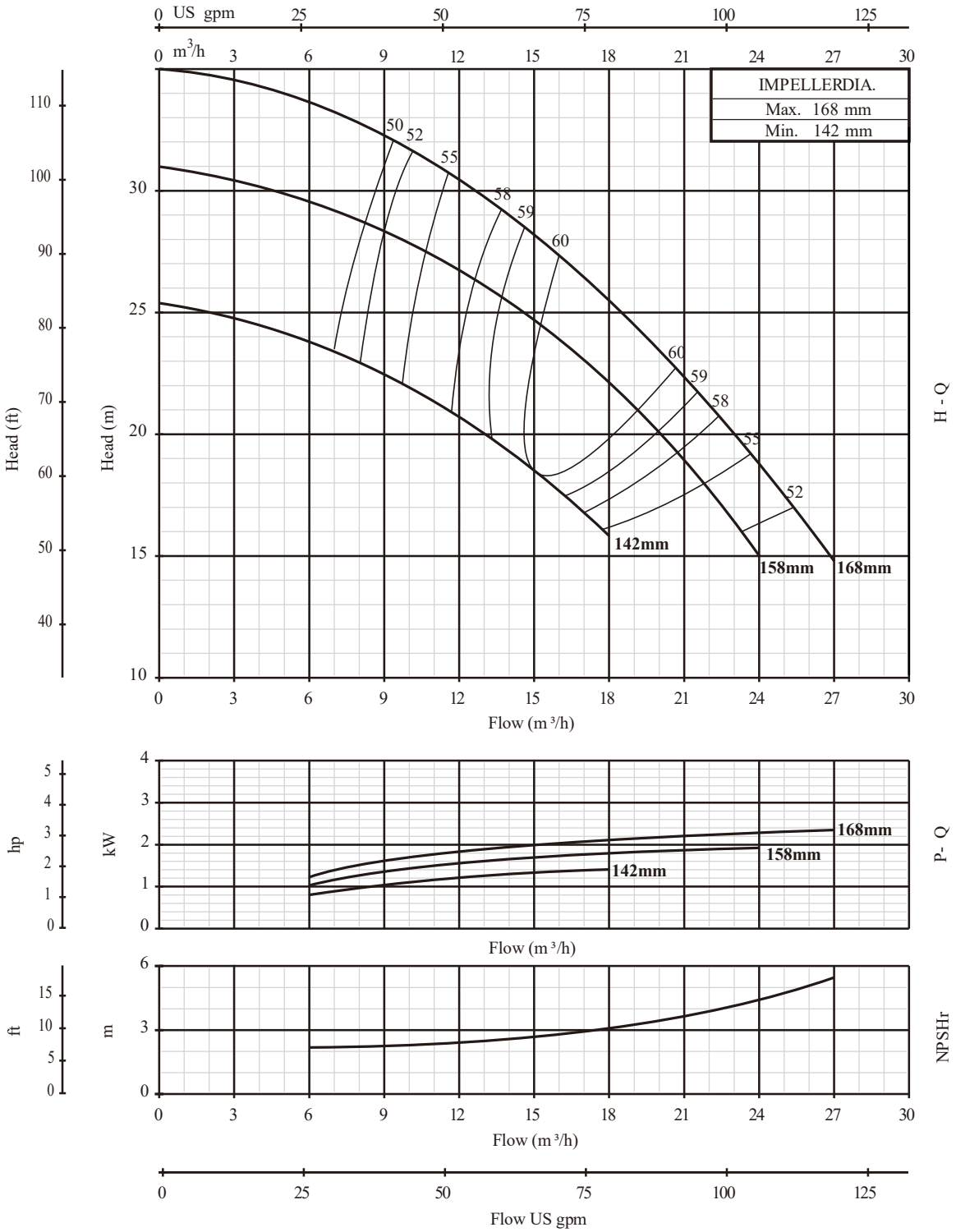


DN	D	K	HOLES	
	mm	mm	N	Φmm
32	140	100	4	18
40	150	110		
50	165	125		
65	185	145		
80	200	160	8	
100	220	180		
125	250	210		
150	285	240		22
200	340	295		
250	405	355	12	26

MODEL	DIMENSIONS																	kg
	DN1	DN2	a	f	h1	h2	b	m1	m2	n1	n2	s1	s2	w	x	d	l	3~
32-160	50	32	80	360	132	160	55	95	70	240	190	14	14	260	100	24	50	**31**
32-200	50	32	80	360	160	180	55	95	70	240	190	14	14	260	100	24	50	**35**
32-250	50	32	80	360	160	180	55	95	70	240	190	14	14	260	100	24	50	**35**
40-160	65	40	80	360	132	160	50	100	70	240	190	14	14	260	100	24	50	**35**
40-200	65	40	100	360	160	180	55	100	70	265	212	14	14	260	100	24	50	**38**
40-250	65	40	100	360	180	225	65	125	95	320	250	14	14	260	100	24	50	**58**
40-315	65	40	125	500	200	160	65	125	95	345	280	14	14	370	140	32	80	**82**
50-125	65	50	100	360	132	180	50	100	70	240	190	14	14	260	100	24	50	**30**
50-160	65	50	100	360	160	200	55	100	70	265	212	14	14	260	100	24	50	**35**
50-200	65	50	100	360	160	225	50	100	70	265	212	14	14	260	100	24	50	**45**
50-250	65	50	100	360	180	180	65	125	95	320	250	14	14	260	100	24	50	**50**
50-315	65	50	125	500	225	280	65	125	95	345	280	14	14	370	140	32	80	**90**
65-125	80	65	100	360	160	250	65	125	95	280	212	14	14	260	100	24	50	**42**
65-160	80	65	100	360	160	200	65	125	95	280	212	14	14	260	100	24	50	**45**
65-200	80	65	100	360	180	225	65	125	95	320	250	14	14	260	140	24	50	**50**
65-250	80	65	100	470	200	250	80	160	120	360	280	18	14	340	140	32	80	**71**
65-315	80	65	125	470	225	280	80	160	120	360	280	18	14	340	140	32	80	**98**
80-125	100	80	100	360	180	225	65	125	95	320	250	14	14	260	140	24	50	**46**
80-160	100	80	100	360	180	225	65	125	95	345	250	14	14	260	140	24	50	**48**
80-200	100	80	100	470	200	250	65	125	95	345	280	14	14	340	140	32	80	**65**
80-250	100	80	100	470	200	280	80	160	120	400	315	18	14	340	140	32	80	**79**
80-315	100	80	125	470	250	315	80	160	120	400	315	18	14	340	140	24	50	**118**
80-400	100	80	125	540	280	355	80	160	120	400	315	18	14	340	140	32	80	**150**
100-160	125	100	125	360	200	280	80	160	120	360	280	18	14	260	140	32	80	**55**
100-200	125	100	125	470	200	280	80	160	120	360	280	18	14	340	140	32	80	**75**
100-250	125	100	125	470	225	280	80	160	120	400	315	18	14	340	140	32	80	**88**
100-315	125	100	140	470	250	315	80	160	120	400	315	19	14	340	140	32	80	**116**
100-400	125	100	140	530	280	355	100	200	150	500	400	23	14	370	140	42	110	**178**
125-200	150	125	140	470	250	315	80	160	120	400	315	19	14	340	140	32	80	**112**
125-250	150	125	140	470	250	355	80	160	120	400	315	19	14	340	140	32	80	**112**
125-250H	150	125	140	530	250	355	80	160	120	400	315	19	14	370	140	42	110	**140**
125-315	150	125	140	530	280	355	100	200	150	500	400	23	14	370	140	42	110	**152**
125-400	150	125	140	530	315	400	100	200	150	500	400	23	14	370	140	42	110	**200**
150-200	200	150	160	470	280	400	100	200	150	550	450	23	14	370	140	32	80	**166**
150-250	200	150	160	530	280	400	100	200	150	550	450	23	14	370	140	42	110	**180**
150-315	200	150	160	530	280	400	100	200	150	550	450	23	14	370	140	42	110	**186**
150-400	200	150	160	530	315	450	100	200	150	550	450	23	14	370	140	42	110	**228**
200-250	250	200	180	530	355	475	100	200	150	550	450	23	14	370	200	42	110	**230**
200-315	250	200	180	530	355	450	100	200	150	550	450	23	14	370	200	42	110	**234**
200-400	250	200	180	770	400	500	110	300	250	710	600	28	14	525	250	60	140	**363**
250-315	300	250	250	530	400	500	110	300	250	710	600	28	14	525	250	42	110	**316**
250-400	300	250	250	770	400	560	110	300	250	710	600	28	14	525	250	60	140	**400**

32-160

2900rpm



PERFORMANCE CURVE

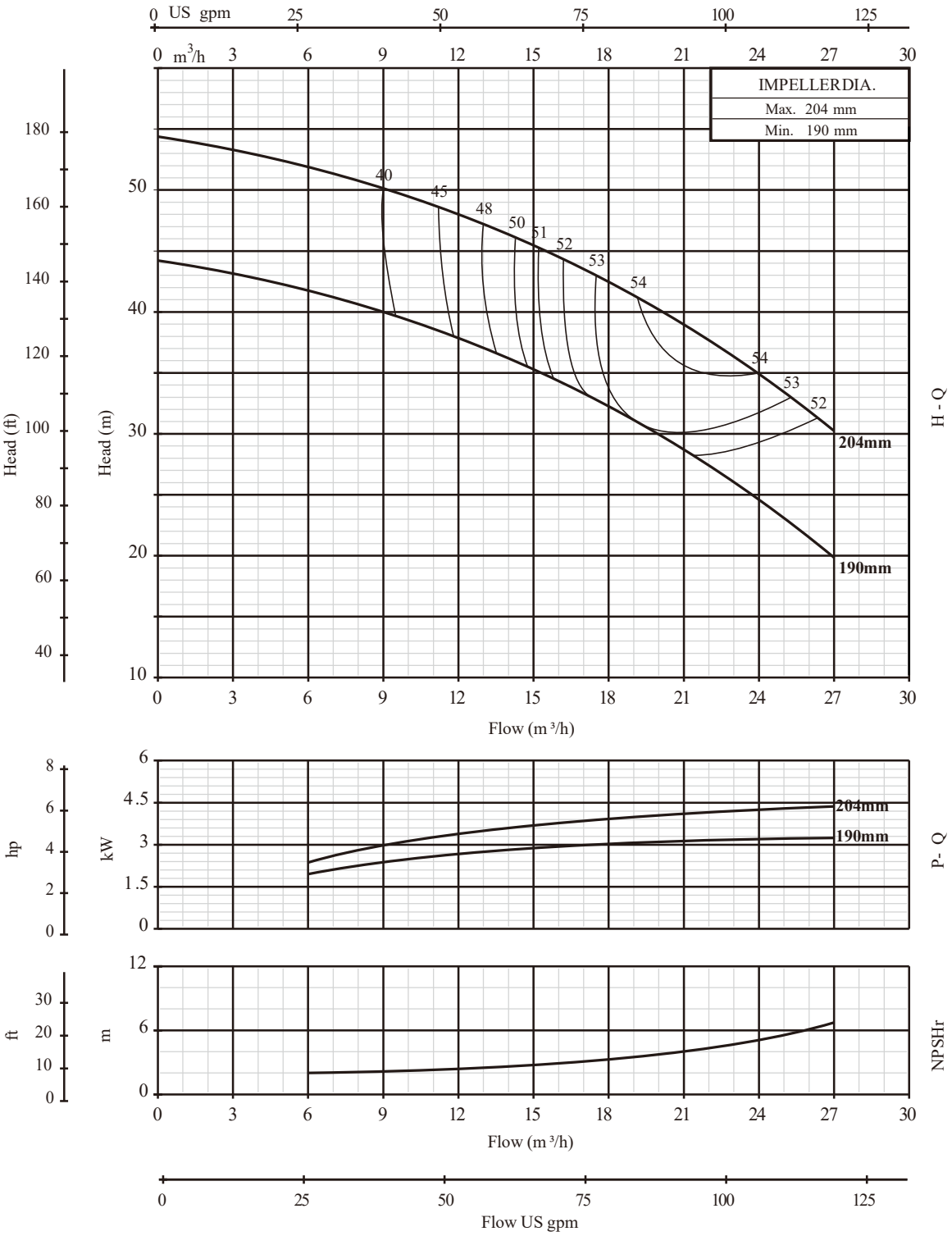
MODEL	DN	Implr Φ	Power		Q=DELIVERY						
					us gpm 0	26	40	66	79	106	119
					l/min 0	100	150	250	300	400	450
					m³/h 0	6	9	15	18	24	27
	mm	mm	kw	hp	H=Head (m)						
CA 32-160	50x32	142	1.5	2	25.4	23.7	22.5	18.5	15.8	-	-
CA 32-160	50x32	158	2.2	3	31	29.6	28.5	24.5	22	15	-
CA 32-160	50x32	168	3	4	35	34.3	32.5	28	25.5	19	15

MARO water pumps

32-200

2900rpm

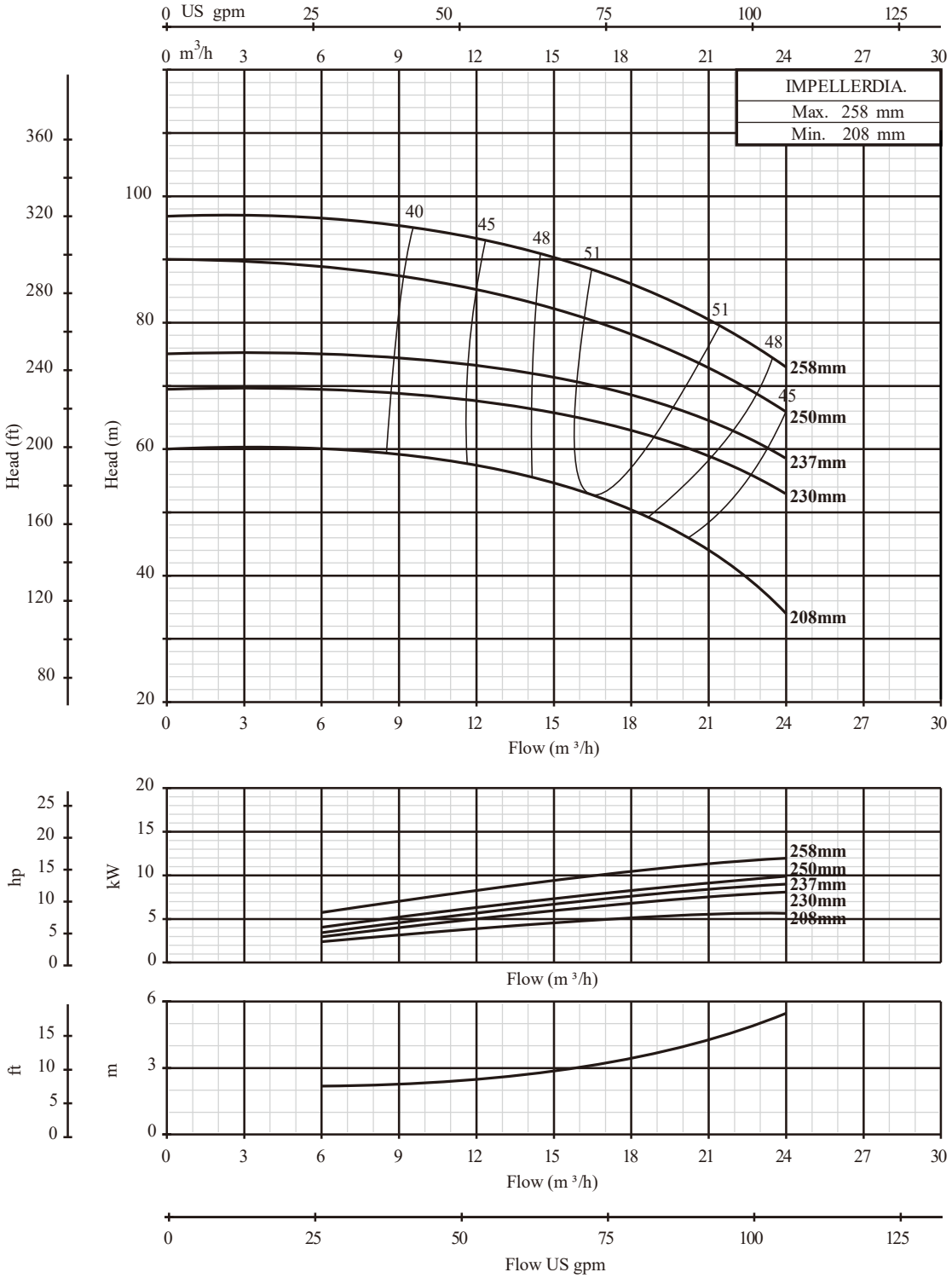
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY						
					us gpm 0	26	40	66	79	106	119
					l/min 0	100	150	250	300	400	450
					m³/h 0	6	9	15	18	24	27
	mm	mm	kw	hp	H=Head (m)						
CA 32-200	50x32	190	3	4	44.2	42	39.8	35.2	32.2	24.6	19.8
CA 32-200	50x32	204	4	5.5	54.5	52	50	45.5	42.3	35	30.3

32-250

2900rpm



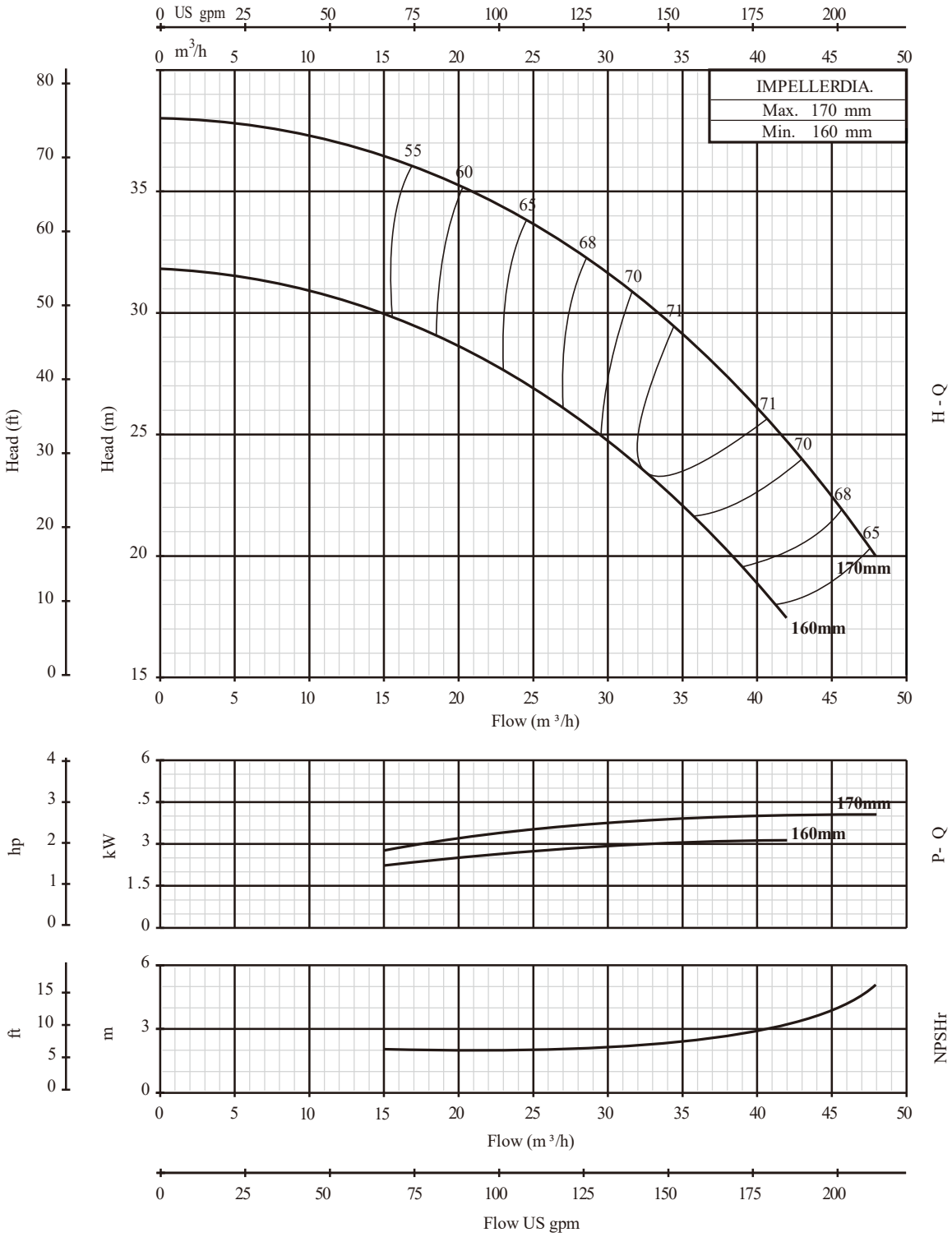
PERFORMANCE CURVE

MODEL	DN	Implr Φ	Power		Q=DELIVERY					
					us gpm 0	26	40	66	79	106
					l/min 0	100	150	250	300	400
					m³/h 0	6	9	15	18	24
	mm	mm	kw	hp	H=Head (m)					
CA 32-250	50x32	208	5.5	7.5	60	59.5	59	55	50.2	34.5
CA 32-250	50x32	230	7.5	10	69.5	69	68.5	66	63	53
CA 32-250	50x32	237	9.2	12.5	75	75	74.5	72	69	59
CA 32-250	50x32	250	11	15	90	89.5	88	82	78	66
CA 32-250	50x32	258	15	20	97	96.5	96	90	86	73

PERFORMANCE CURVE

40-160

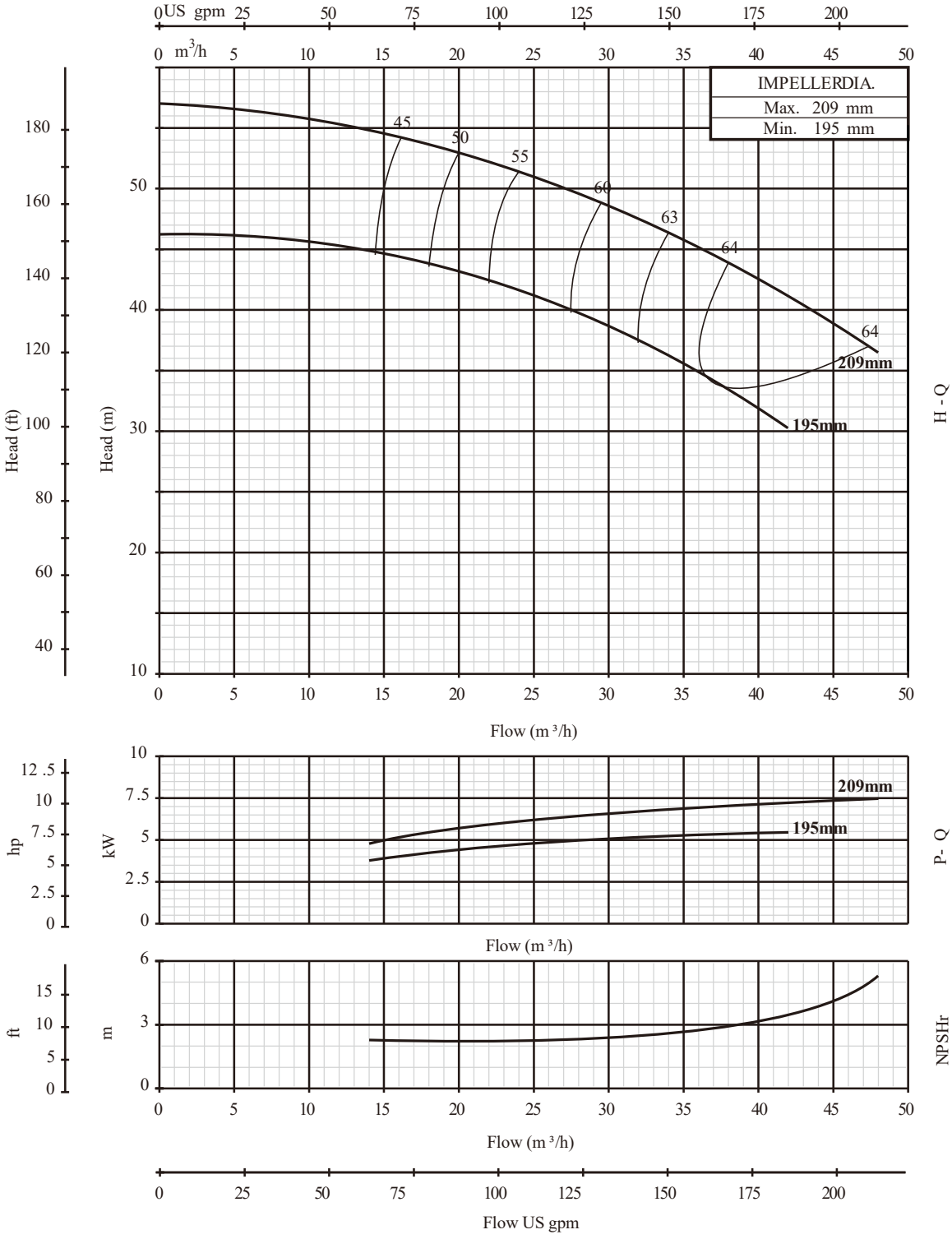
2900rpm



MODEL	DN	Implr Φ	Power		Q=DELIVERY						
					us gpm 0	79	106	119	159	185	211
					l/min 0	300	400	450	600	700	800
					m³/h 0	18	24	27	36	42	48
	mm	mm	kw	hp	H=Head (m)						
CA 40-200	65x40	195	5.5	7.5	46	43.8	41.3	40.1	35	30	-
CA 40-200	65x40	209	7.5	10	57	53.6	51.5	50	45	41	36.5

40-200

2900rpm



PERFORMANCE CURVE

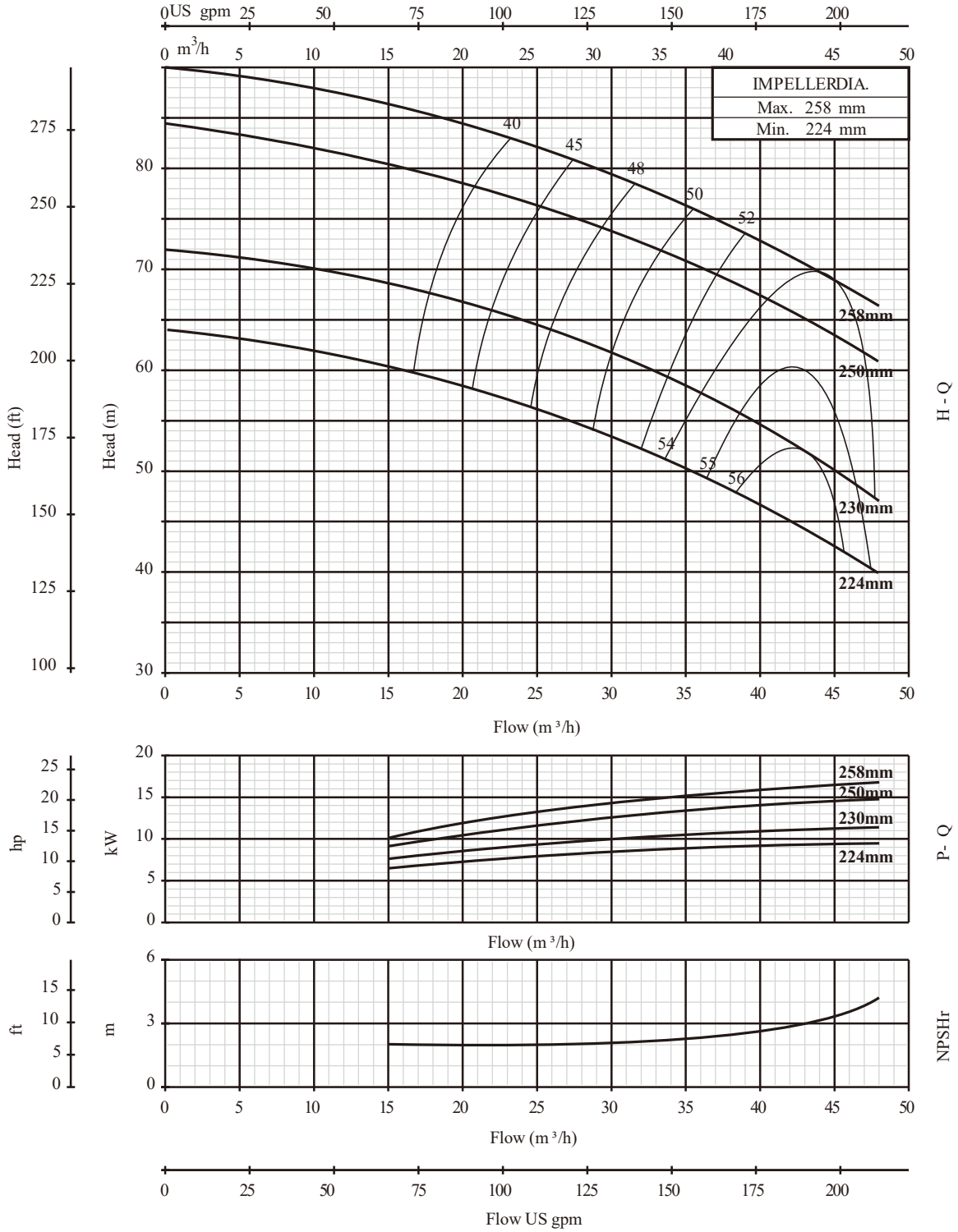
MODEL	DN	Implr Φ	Power		Q=DELIVERY						
					us gpm 0	79	106	119	159	185	211
					l/min 0	300	400	450	600	700	800
					m³/h 0	18	24	27	36	42	48
	mm	mm	kw	hp	H=Head (m)						
CA 40-200	65x40	195	5.5	7.5	46	43.8	41.3	40.1	35	30	-
CA 40-200	65x40	209	7.5	10	57	53.6	51.5	50	45	41	36.5

MARO water pumps

40-250

2900rpm

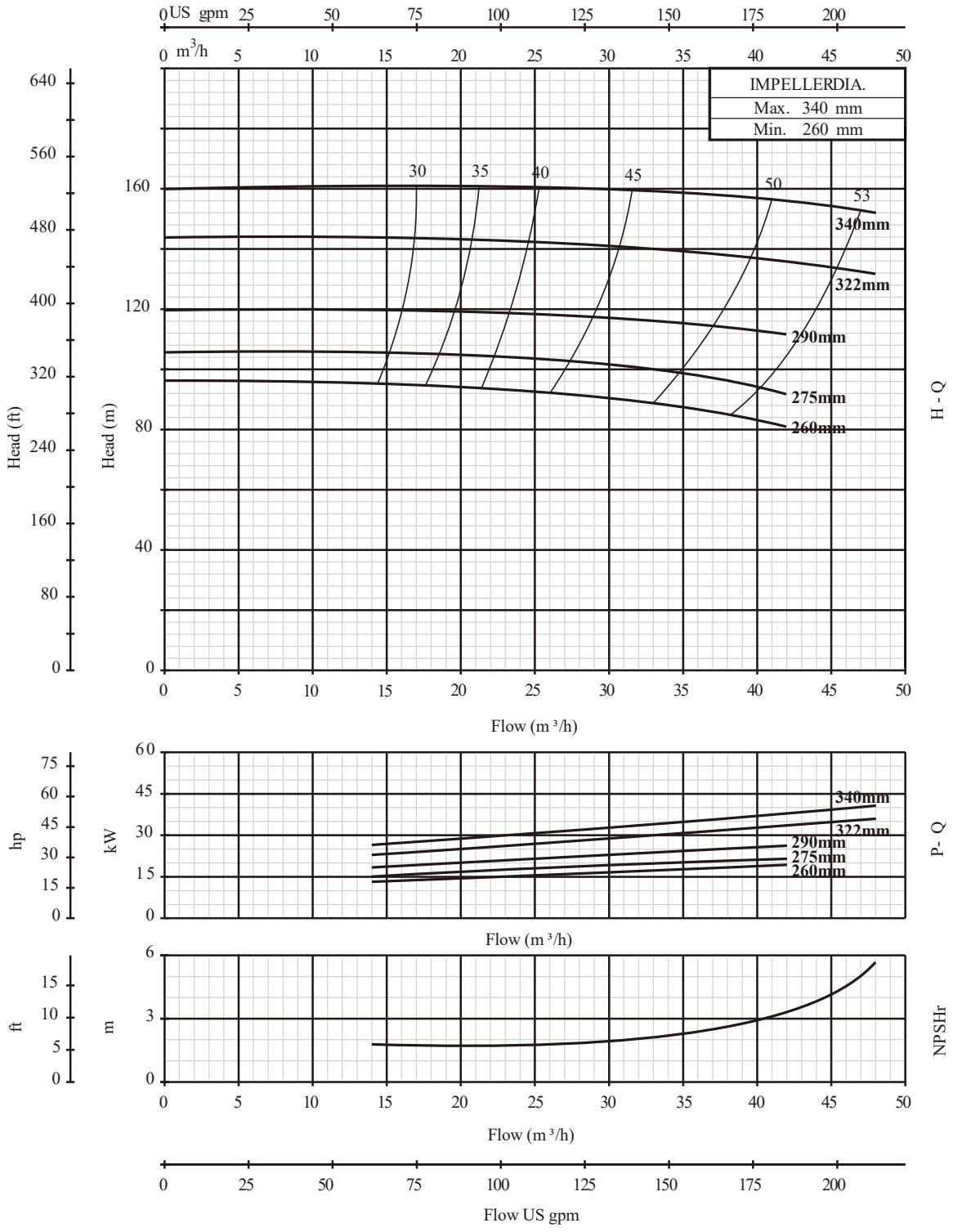
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY						
					us gpm 0	79	106	119	159	185	211
					l/min 0	300	400	450	600	700	800
					m³/h 0	18	24	27	36	42	48
	mm	mm	kw	hp	H=Head (m)						
CA 40-250	65x40	224	9.2	12.5	64	59	56.5	55	49.5	45	39.8
CA 40-250	65x40	230	11	15	72	67.5	65	63.5	57.5	52.2	47
CA 40-250	65x40	250	15	20	84.5	79.3	77.3	75.2	70	66	61
CA 40-250	65x40	258	18.5	25	90	85.5	82.8	80.7	75.8	70.5	66.5

40-315

2900rpm



PERFORMANCE CURVE

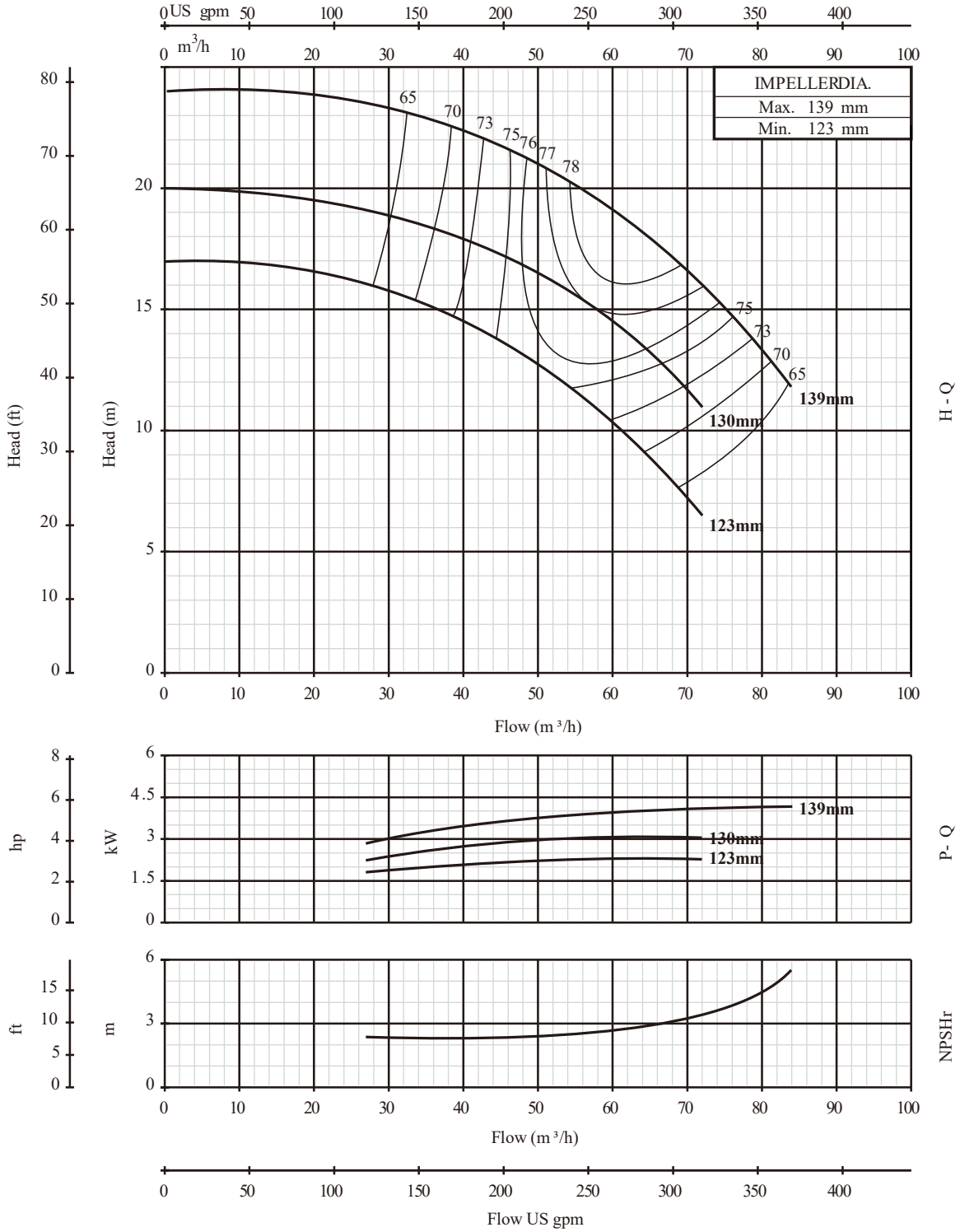
MODEL	DN	Implr Φ	Power		Q=DELIVERY						
					us gpm	0	79	106	119	159	185	211
					l/min	0	300	400	450	600	700	800
					m³/h	0	18	24	27	36	42	48
	mm	mm	kw	hp	H=Head (m)							
CA 40-315	65x40	260	18.5	25	95	95	93	92.5	87	81	-
CA 40-315	65x40	275	22	30	106	106	104	103.5	98	92	-
CA 40-315	65x40	290	30	40	120	120	118	117	115	112	-
CA 40-315	65x40	322	37	50	144	144	143	142	141	140	132
CA 40-315	65x40	340	45	60	160	160	160	159	158	157	152

MARO water pumps

50-125

2900rpm

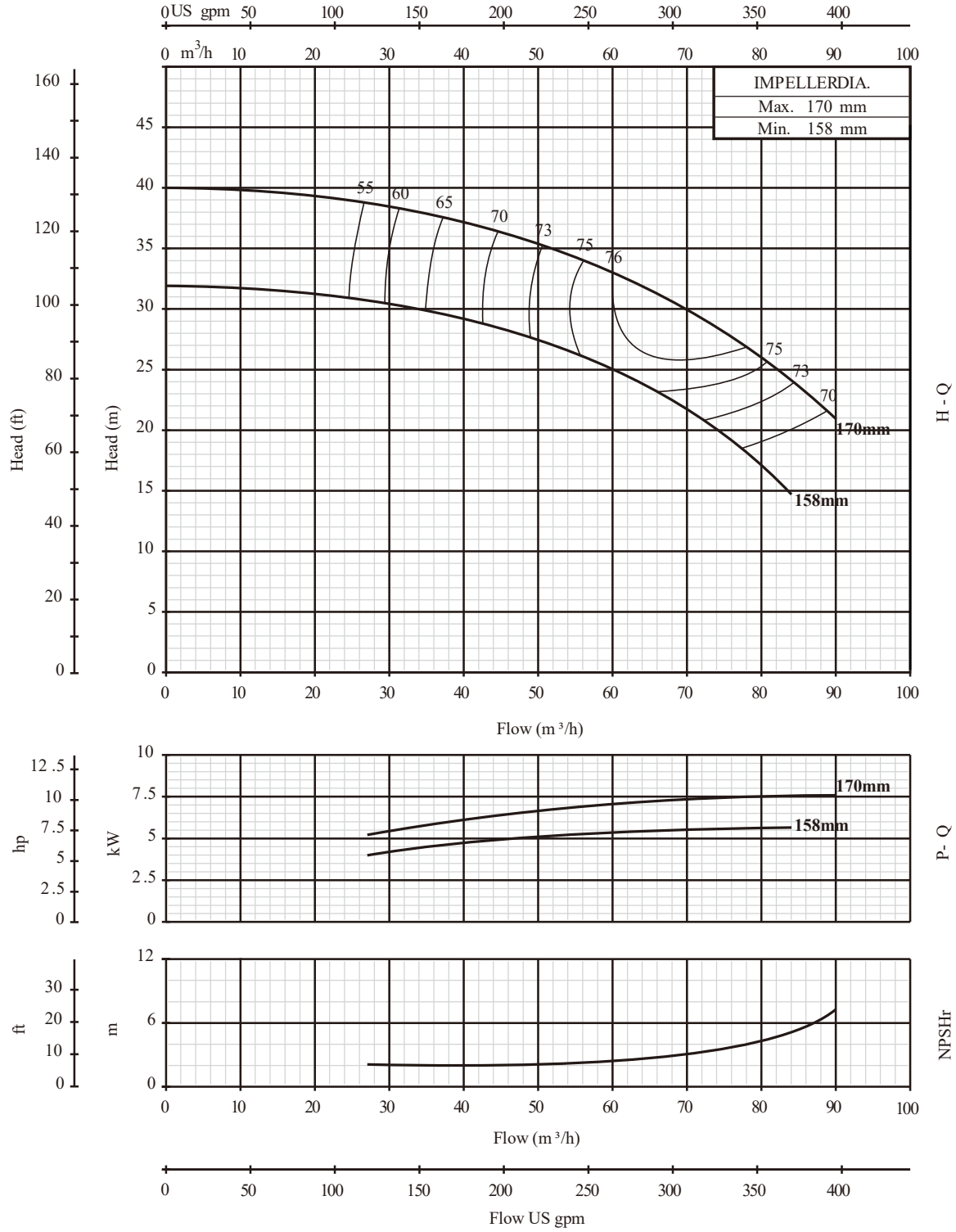
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY						
					us gpm	0	159	185	211	238	317	370
					l/min	0	600	700	800	900	1200	1400
					m³/h	0	36	42	48	54	72	84
	mm	mm	kw	hp	H=Head (m)							
CA 50-125	65x50	123	2.2	3	17	15.4	14	12.8	11.5	6.5	-
CA 50-125	65x50	130	3	4	20	18.8	18	17	15.6	11	-
CA 50-125	65x50	139	4	5.5	24	23.1	23	21.5	20.3	15.8	11.8

50-160

2900rpm



PERFORMANCE CURVE

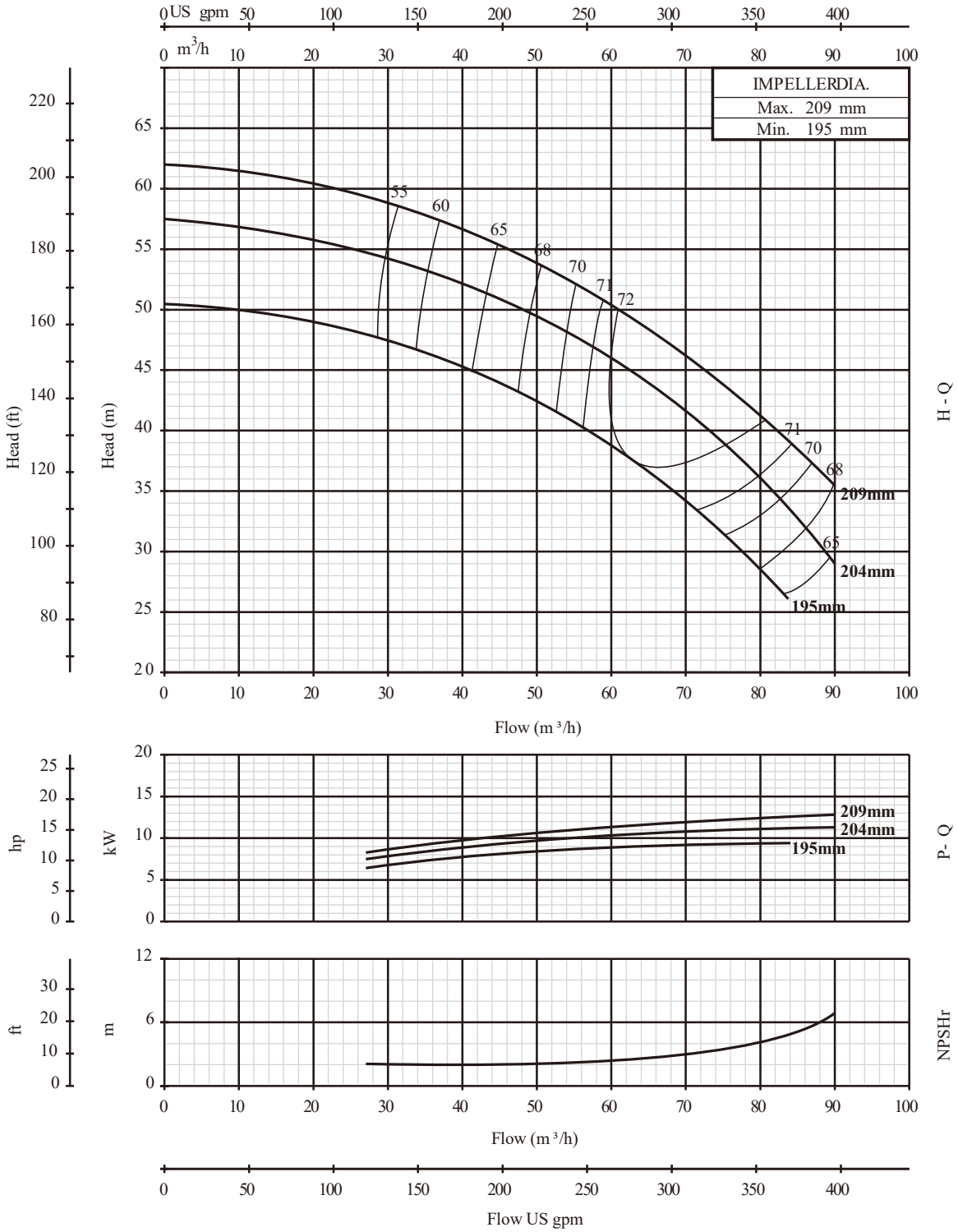
MODEL	DN	Implr Φ	Power		Q=DELIVERY							
					us gpm	0	159	185	211	238	317	370	396
					l/min	0	600	700	800	900	1200	1400	1500
					m³/h	0	36	42	48	54	72	84	90
	mm	mm	kw	hp	H=Head (m)								
CA 50-160	65x50	**158**	5.5	7.5	32	38	37	36	34.4	29	24	21
CA 50-160	65x50	**170**	7.5	10	40	46.8	45	43	40.9	32.5	26.7	-

MARO water pumps

50-200

2900rpm

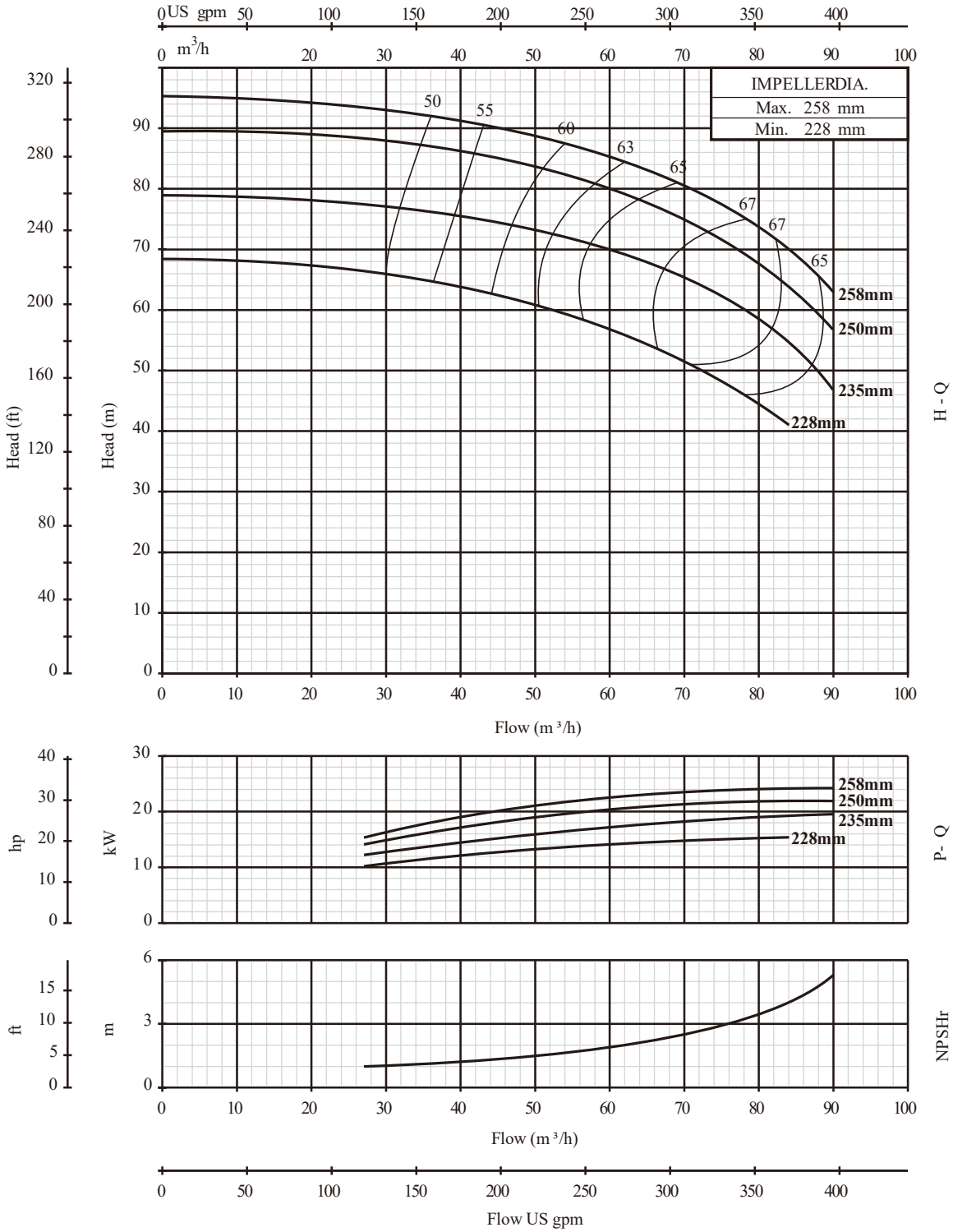
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY							
					us gpm	0	159	185	211	238	317	370	396
					l/min	0	600	700	800	900	1200	1400	1500
					m³/h	0	36	42	48	54	72	84	90
	mm	mm	kw	hp	H=Head (m)								
CA 50-200	65x50	**195**	9.2	12.5	50.5	46.8	45	43	40.9	32.5	26.7	-
CA 50-200	65x50	**204**	11	15	57.5	53.5	52	50	47.5	40	34	29
CA 50-200	65x50	**209**	15	20	62	58	56.5	54.5	52	44.5	39	35.5

50-250

2900rpm



PERFORMANCE CURVE

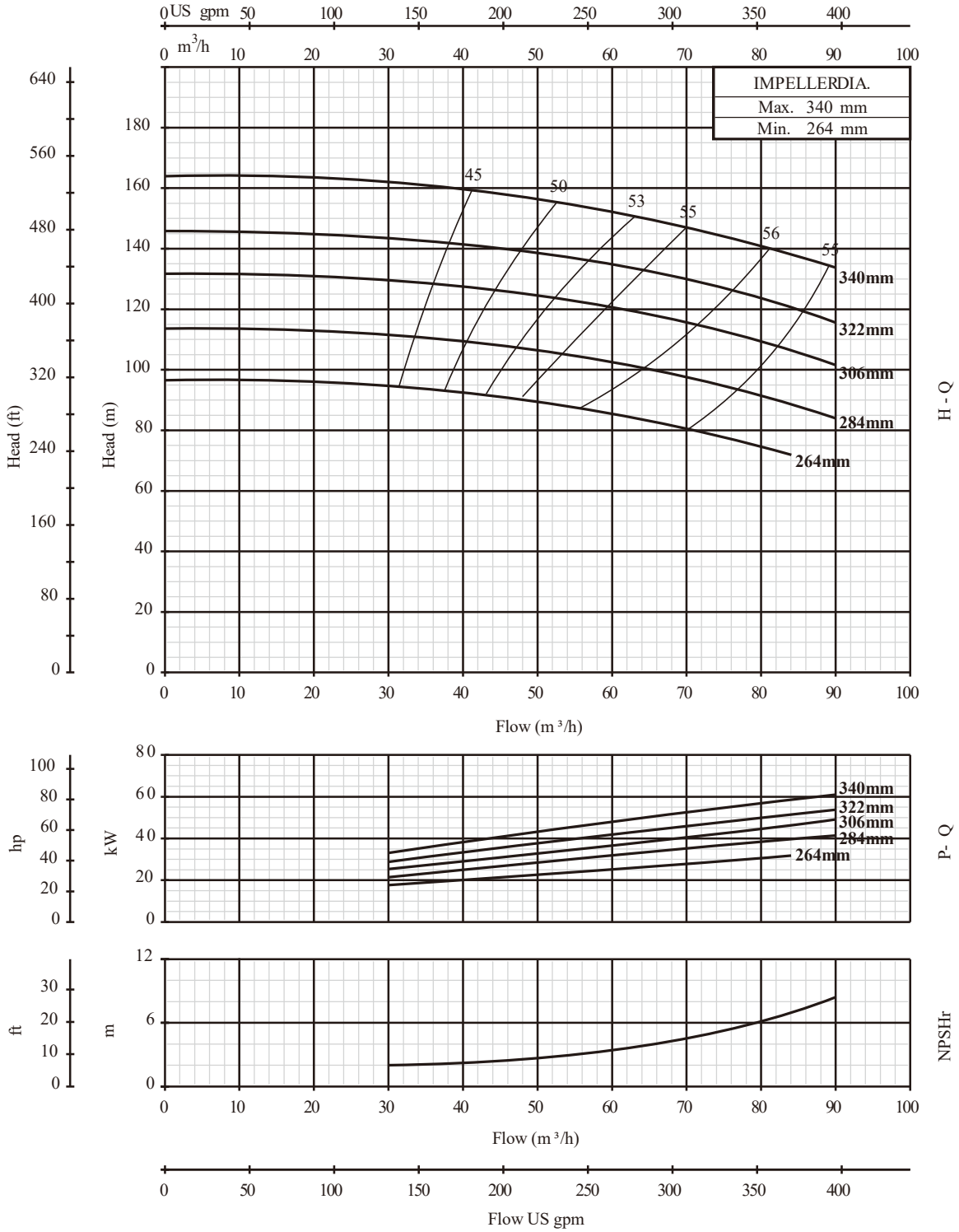
MODEL	DN	Implr Φ	Power		Q=DELIVERY							
					us gpm	0	159	185	211	238	317	370	396
					l/min	0	600	700	800	900	1200	1400	1500
					m³/h	0	36	42	48	54	72	84	90
	mm	mm	kw	hp	H=Head (m)								
CA 50-250	65x50	228	15	20	68.5	64	63	61.5	59	50	41	-
CA 50-250	65x50	235	18.5	25	79	75.8	74.8	74	71.5	63.5	55.5	47
CA 50-250	65x50	250	22	30	89.5	86	85.3	84	81.5	73.5	63.5	57
CA 50-250	65x50	258	30	40	95.5	92	91.3	90	87.5	79.5	70	63

MARO water pumps

50-315

2900rpm

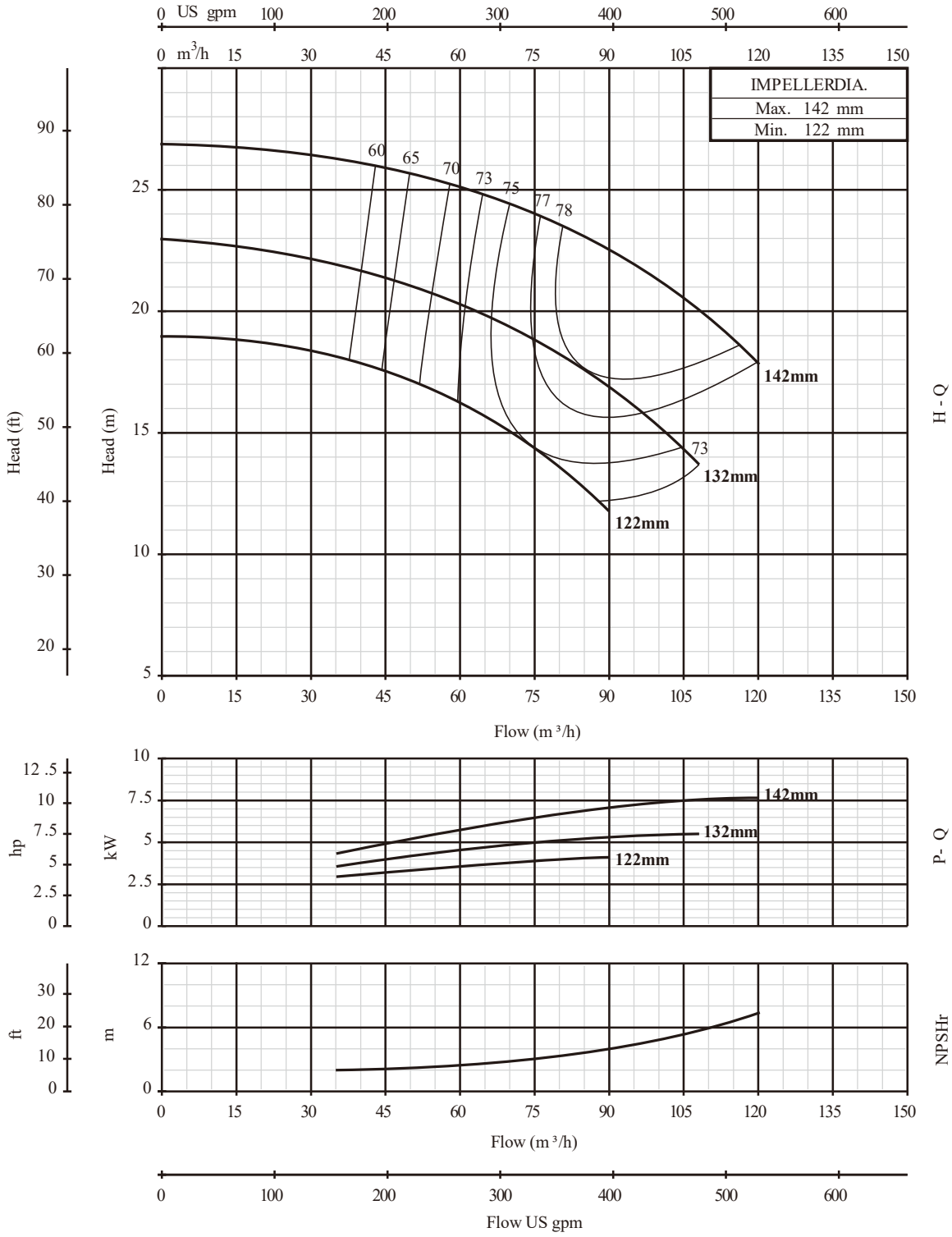
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY							
					us gpm 0	159	185	211	238	317	370	396
					l/min 0	600	700	800	900	1200	1400	1500
					m³/h 0	36	42	48	54	72	84	90
	mm	mm	kw	hp	H=Head (m)							
CA 50-315	65x50	264	30	40	97	94	92	90.5	88	80	72	-
CA 50-315	65x50	284	37	50	114	111	109	107.5	105	97	89	84
CA 50-315	65x50	306	45	60	132	129	127	125.5	123	115	107	102
CA 50-315	65x50	322	55	75	146	143	141	139.5	137	129	121	116
CA 50-315	65x50	340	75	100	164	161	159	157.5	155	147	139	134

65-125

2900rpm



PERFORMANCE CURVE

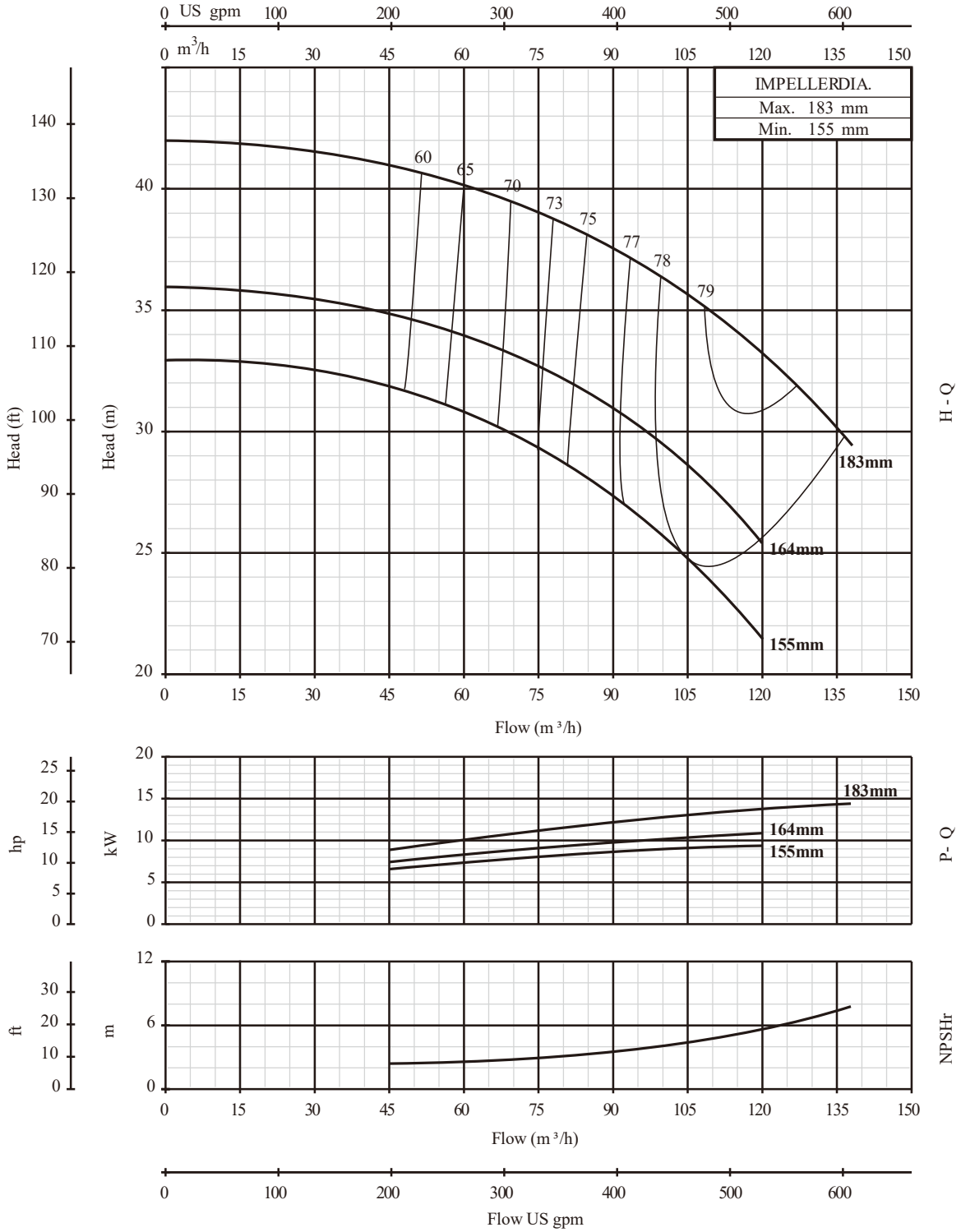
MODEL	DN	Implr Φ	Power		Q=DELIVERY							
					us gpm	0	211	238	317	370	396	476	529
					l/min	0	800	900	1200	1400	1500	1800	2000
					m³/h	0	48	54	72	84	90	108	120
	mm	mm	kw	hp	H=Head (m)								
CA 65-125	80x65	122	4	5.5	19	17.3	16.8	14.5	13	11.8	-	-
CA 65-125	80x65	132	5.5	7.5	23	21.3	20.9	19	17.5	16.7	13.7	-
CA 65-125	80x65	142	7.5	10	27	26	25.6	24.5	23	22.5	20	18

MARO water pumps

65-160

2900rpm

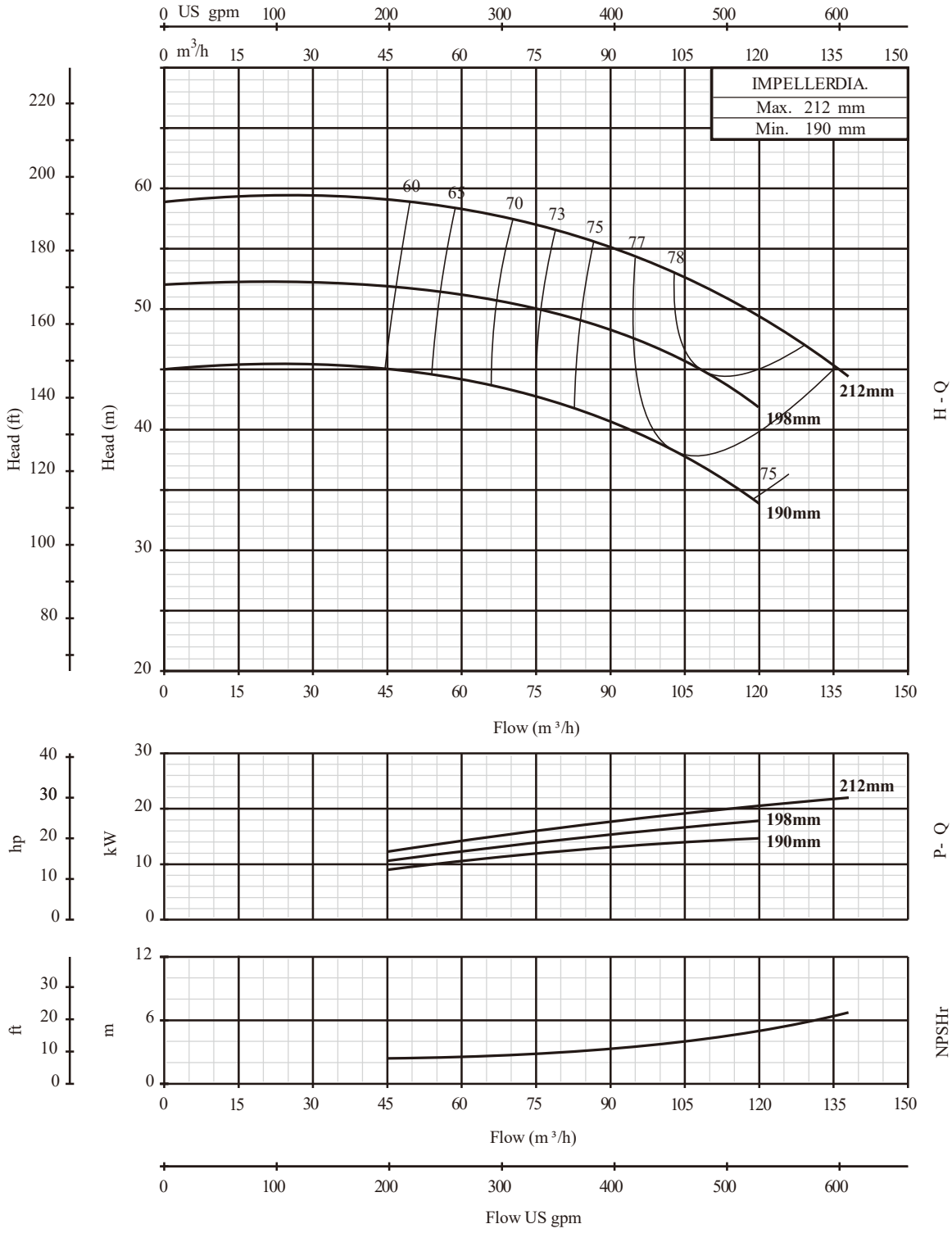
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY							
					us gpm 0	238	317	370	396	476	529	608
					l/min 0	900	1200	1400	1500	1800	2000	2300
	mm	mm	kw	hp	m³/h 0	54	72	84	90	108	120	138
					H=Head (m)							
CA 65-160	80x65	155	9.2	12.5	33	31.5	30	28	27.1	24	21.5	-
CA 65-160	80x65	164	11	15	36	34.5	33	31.5	30.8	28	25.5	-
CA 65-160	80x65	183	15	20	42	41	40	38.5	37.8	35	33	29.5

65-200

2900rpm



PERFORMANCE CURVE

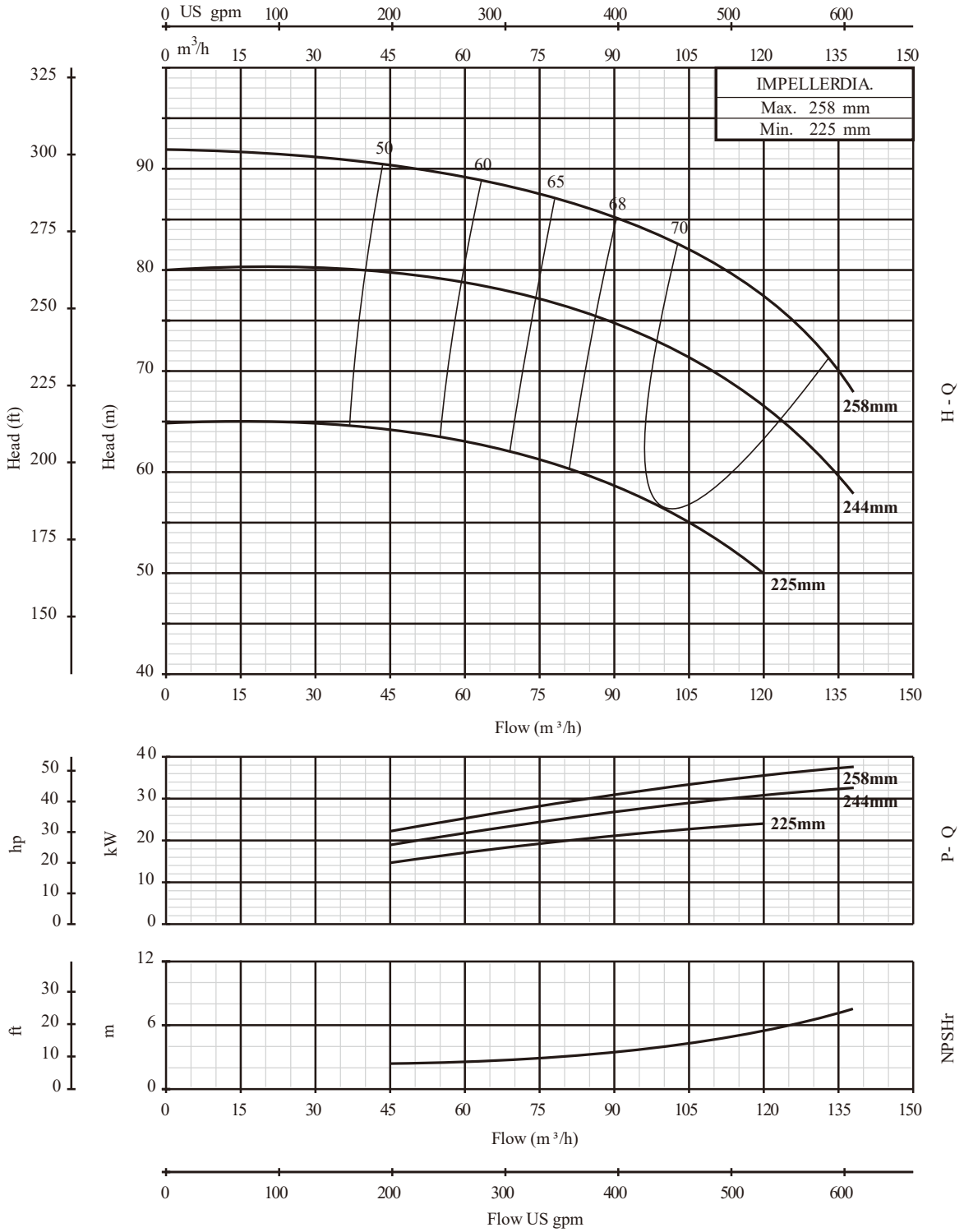
MODEL	DN	Implr Φ	Power		Q=DELIVERY							
					us gpm 0	238	317	370	396	476	529	608
					l/min 0	900	1200	1400	1500	1800	2000	2300
					m³/h 0	54	72	84	90	108	120	138
	mm	mm	kw	hp	H=Head (m)							
CA 65-200	80x65	190	15	20	45	45.5	43	41	40.2	36.5	34	-
CA 65-200	80x65	198	18.5	25	52	52.3	51	49	48.2	44.5	42	-
CA 65-200	80x65	212	22	30	59	59.5	58	56	55	52	49.5	44.5

MARO water pumps

65-250

2900rpm

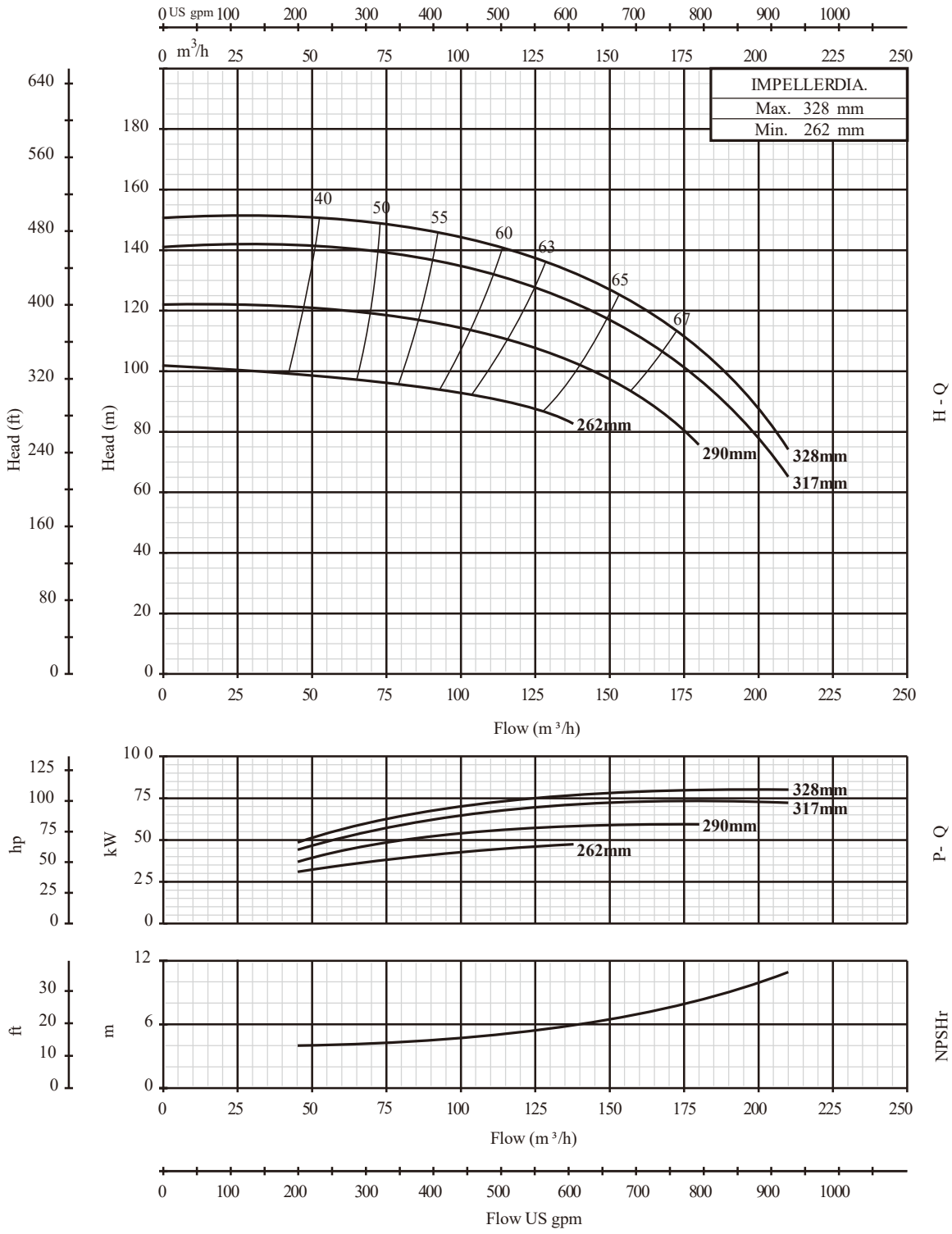
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY							
					us gpm 0	238	317	370	396	476	529	608
					l/min 0	900	1200	1400	1500	1800	2000	2300
					m³/h 0	54	72	84	90	108	120	138
	mm	mm	kw	hp	H=Head (m)							
CA 65-250	80x65	225	22	30	64.8	64.7	62	60	58.5	53	50	-
CA 65-250	80x65	244	30	40	80	79.8	77.5	75.5	74.5	70	66	58
CA 65-250	80x65	258	37	50	92	90.5	88.5	87	85	80.5	78	68

65-315

2900rpm



MODEL	DN	Implr Φ	Power		Q=DELIVERY									
					us gpm	0	238	317	370	396	476	529	608	793	925
					l/min	0	900	1200	1400	1500	1800	2000	2300	3000	3500
					m³/h	0	54	72	84	90	108	120	138	180	210
	mm	mm	kw	hp	H=Head (m)										
CA 65-315	80x65	262	45	60	102	99.2	97	95	94.5	92.4	90	83	-	-	
CA 65-315	80x65	290	55	75	122	119.2	117.4	115.7	114.5	112.5	110	103	76	-	
CA 65-315	80x65	317	75	100	141	139.8	137.3	135.6	134.5	132.5	130	122	96	65.5	
CA 65-315	80x65	328	90	125	151	149.8	147.3	145.6	144.5	142.5	140	132	106	75.5	

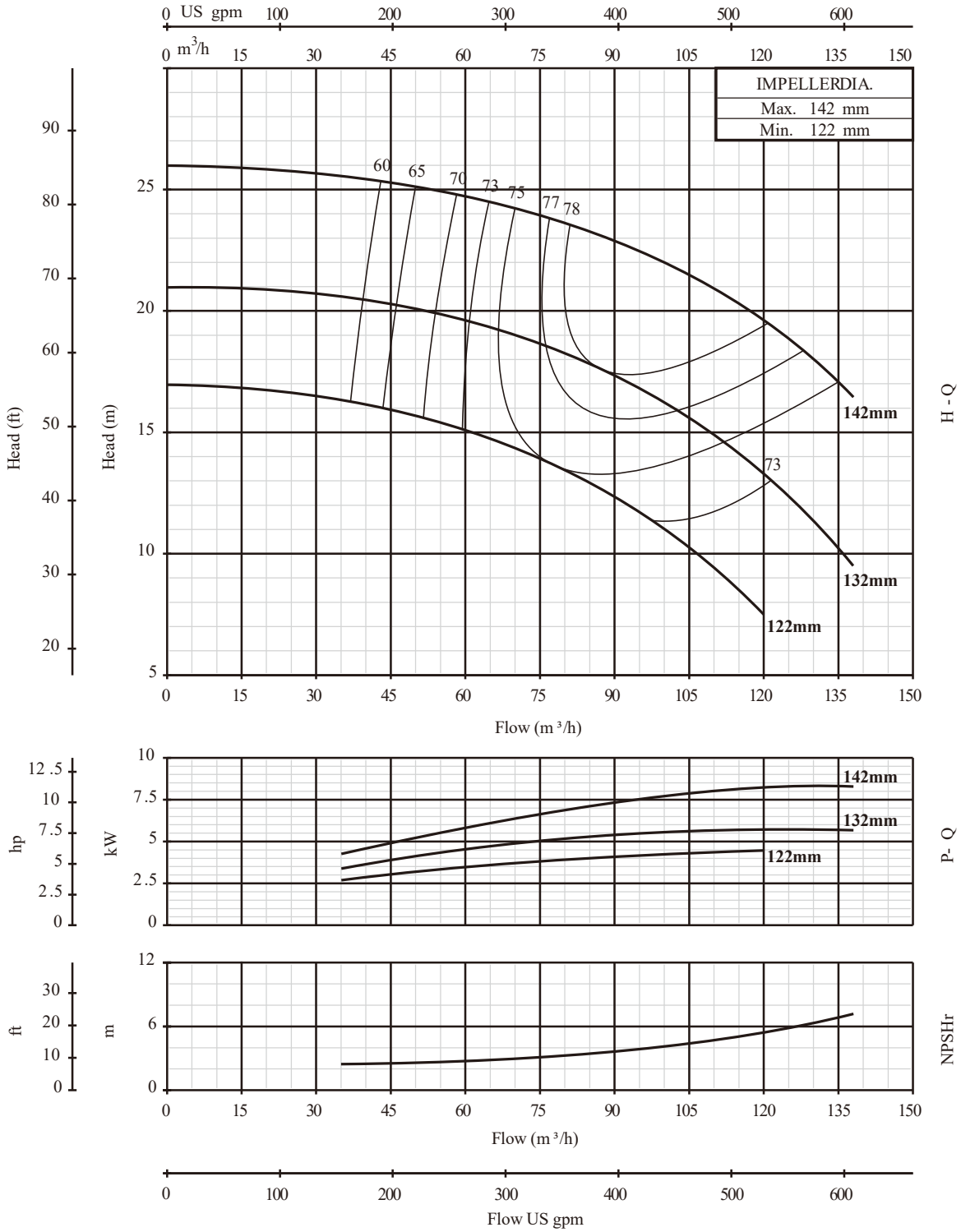
PERFORMANCE CURVE

MARO water pumps

80-125

2900rpm

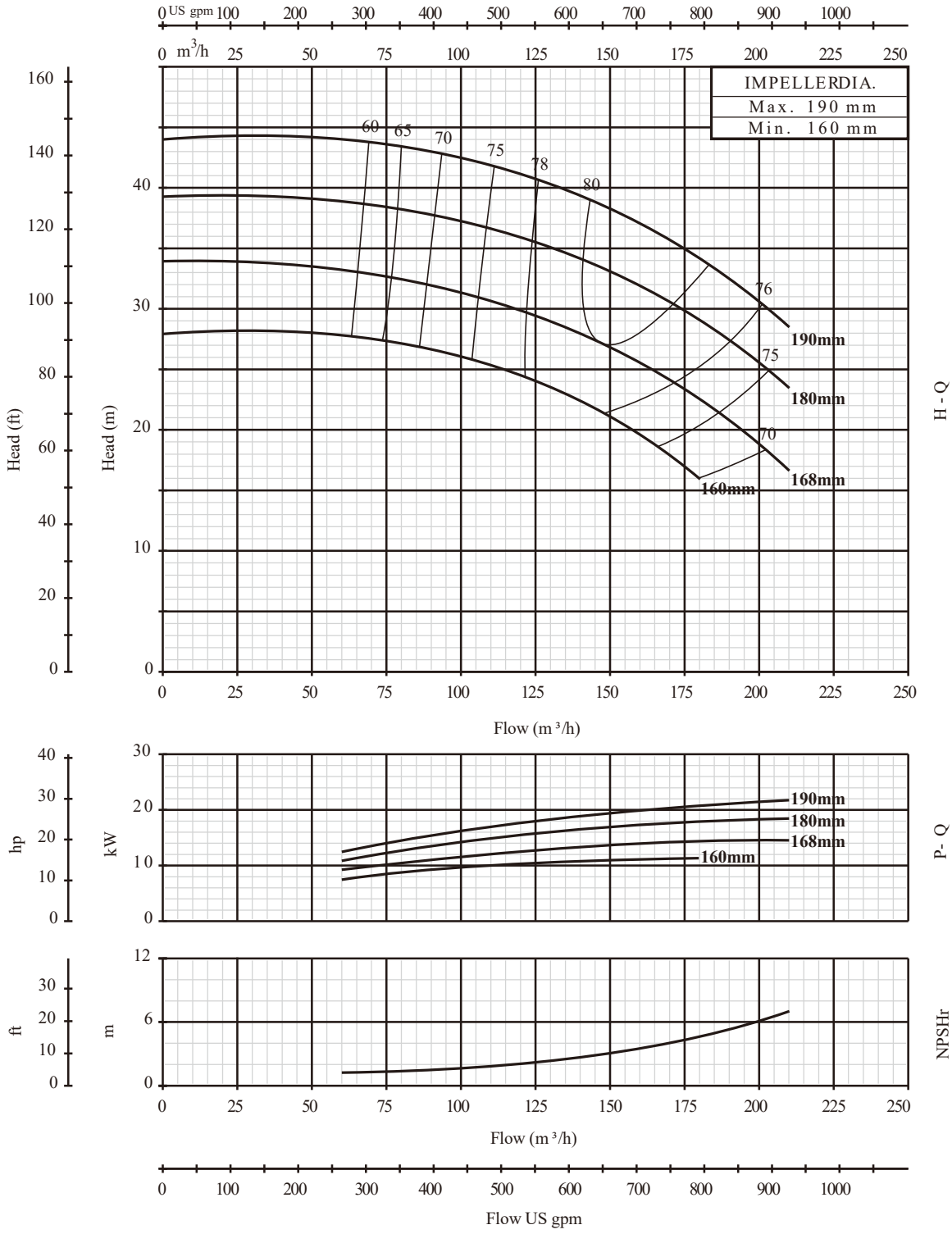
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY								
					us gpm 0	211	238	317	370	396	476	529	608
					l/min 0	800	900	1200	1400	1500	1800	2000	2300
					m³/h 0	48	54	72	84	90	108	120	138
	mm	mm	kw	hp	H=Head (m)								
CA 80-125	100x80	122	4	5.5	17	16.5	15.9	14.3	13.5	11.6	10	7.5	-
CA 80-125	100x80	132	5.5	7.5	21	20.5	20	19	18	16.5	15	12.5	9.5
CA 80-125	100x80	142	7.5	10	26	25	25	24.5	23.8	22.5	21.5	19.5	16.5

80-160

2900rpm



PERFORMANCE CURVE

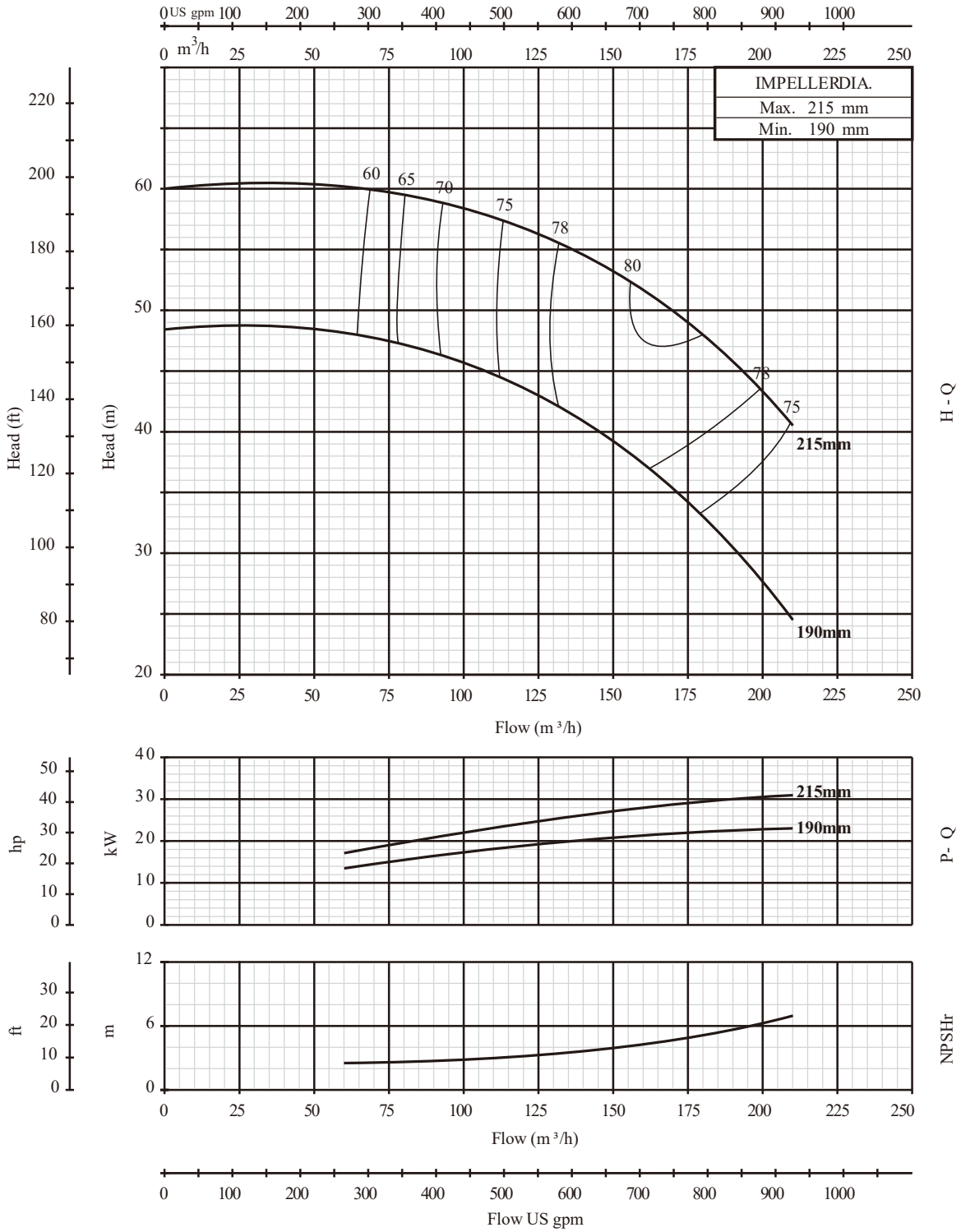
MODEL	DN	Implr Φ	Power		Q=DELIVERY							
					us gpm	0	264	396	529	634	793	881	925
					l/min	0	1000	1500	2000	2400	3000	3333	3500
					m³/h	0	60	90	120	144	180	200	210
	mm	mm	kw	hp	H=Head (m)								
CA 80-160	100x80	**160**	11	15	28	27	27.3	24.5	21.1	16	-	-
CA 80-160	100x80	**168**	15	20	34	32.6	32.5	30.2	27	22.1	18.5	16.7
CA 80-160	100x80	**180**	18.5	25	39	38.5	38	36.7	33.6	28.8	25.3	23.5
CA 80-160	100x80	**190**	22	30	44	43.5	43	41.7	38.6	33.8	30.3	28.5

MARO water pumps

80-200

2900rpm

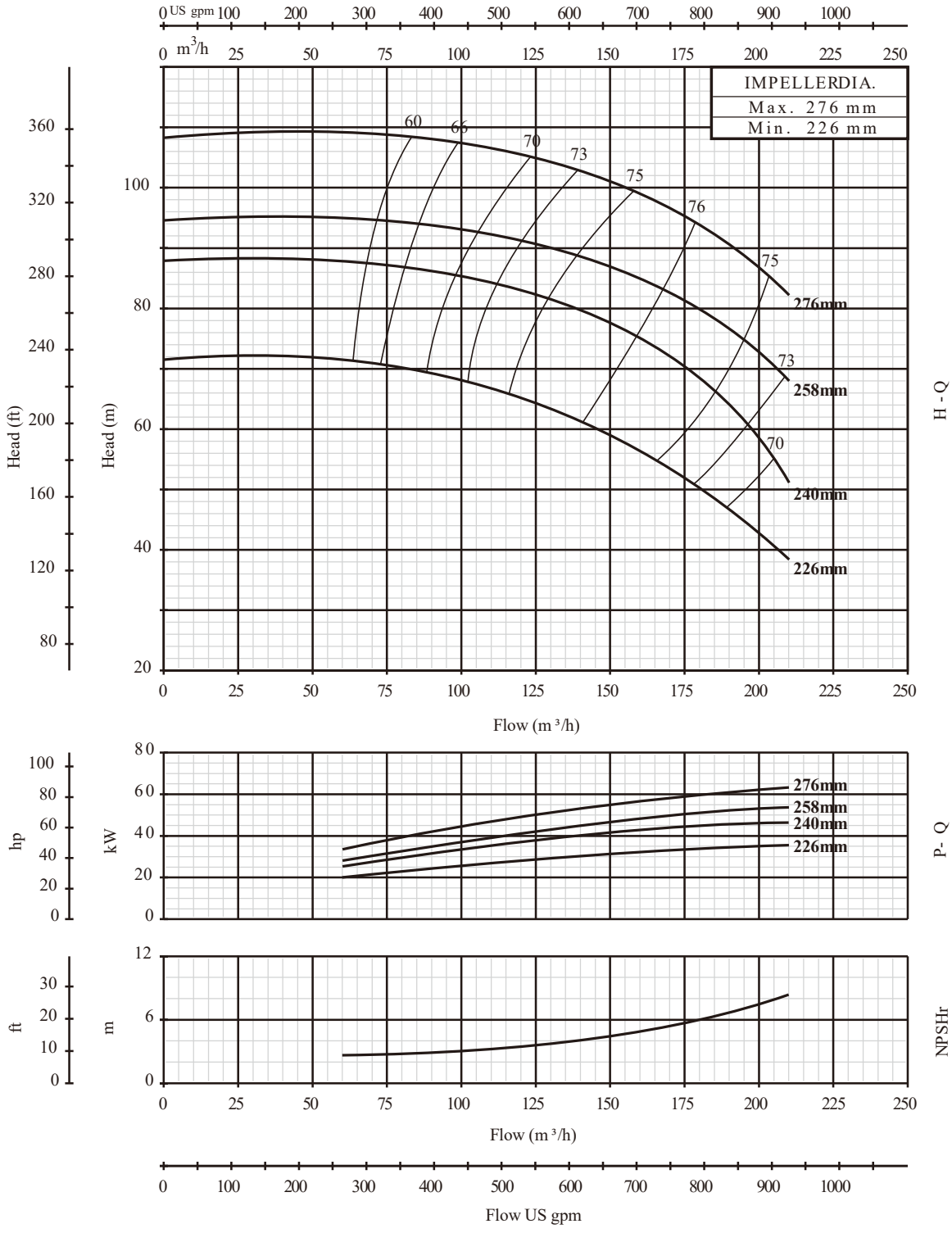
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY							
					us gpm	0	264	396	529	634	793	881	925
					l/min	0	1000	1500	2000	2400	3000	3333	3500
					m³/h	0	60	90	120	144	180	200	210
	mm	mm	kw	hp	H=Head (m)								
CA 80-200	100x80	190	22	30	48	47.7	47.5	43.5	39.2	32.5	27.2	24.5
CA 80-200	100x80	215	30	40	60	59.7	59.5	57	53.1	47	42.7	40.5

80-250

2900rpm



PERFORMANCE CURVE

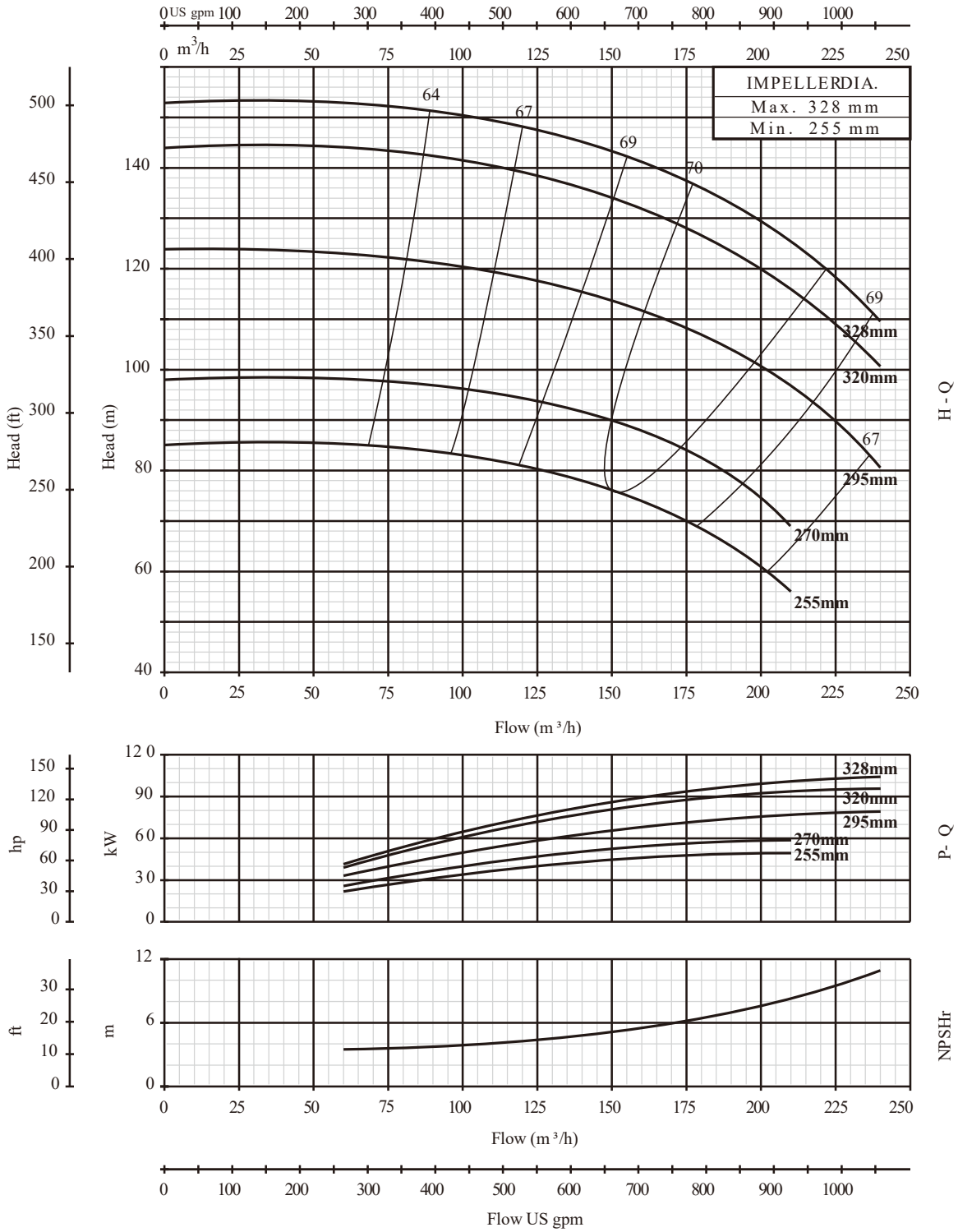
MODEL	DN	Implr Φ	Power		Q=DELIVERY							
					us gpm	0	264	396	529	634	793	881	925
					l/min	0	1000	1500	2000	2400	3000	3333	3500
					m³/h	0	60	90	120	144	180	200	210
	mm	mm	kw	hp	H=Head (m)								
CA 80-250	100x80	226	37	50	71.5	70.9	70.5	65.5	59.3	51	43.2	38.5
CA 80-250	100x80	240	45	60	88	86.7	86	83.6	78.5	70.5	60	51
CA 80-250	100x80	258	55	75	94.5	94.5	94.5	91.8	87	79.5	72.1	68.3
CA 80-250	100x80	276	75	100	108.5	108.5	108.5	105.8	101	93.5	86.1	82.3

MARO water pumps

80-315

2900rpm

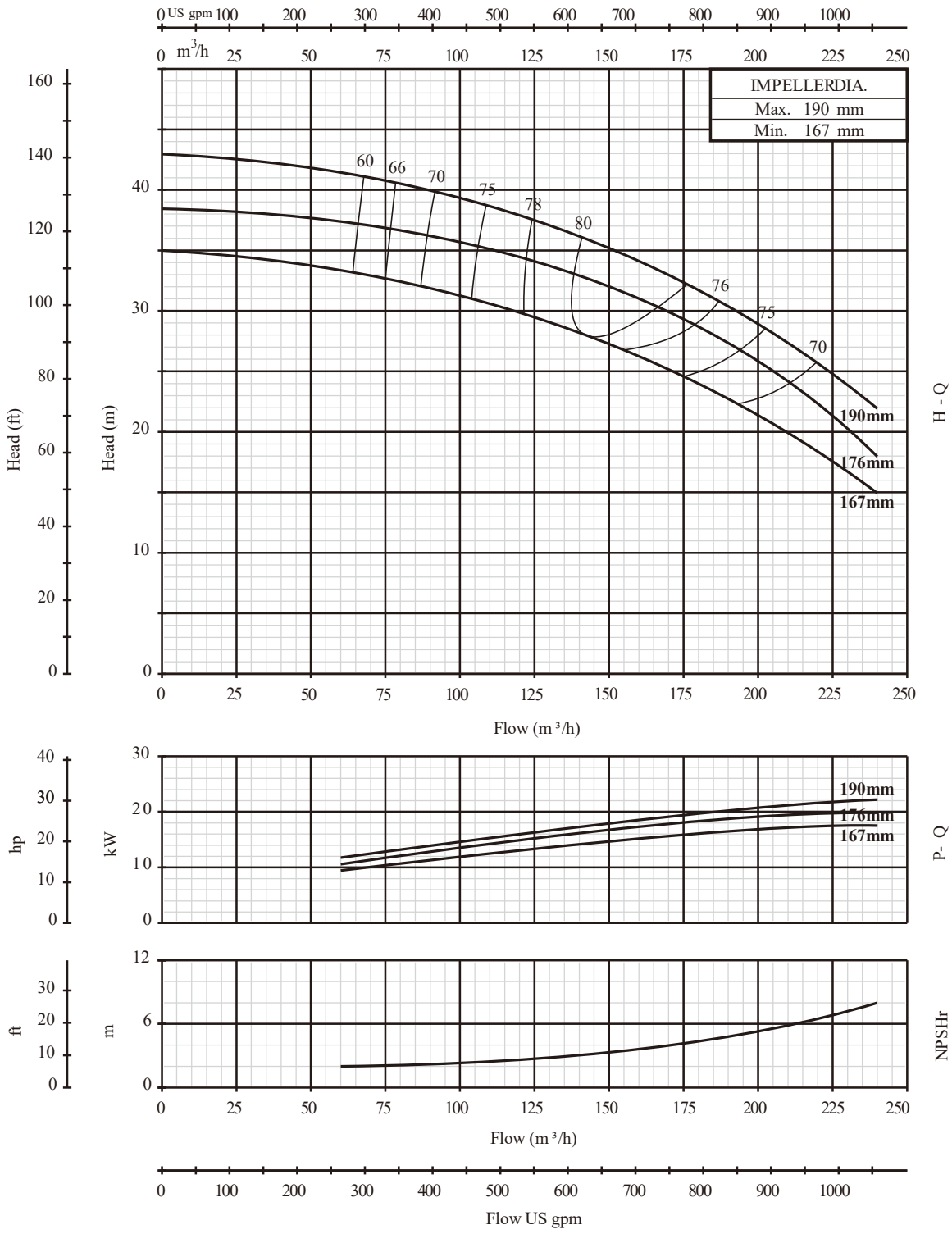
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY									
					us gpm	0	264	396	529	634	793	881	925	969	1057
					l/min	0	1000	1500	2000	2400	3000	3333	3500	3667	4000
					m³/h	0	60	90	120	144	180	200	210	220	240
	mm	mm	kw	hp	H=Head (m)										
CA 80-315	100x80	**255**	45	60	85	84	82.6	82	78	68.3	61	56	-	-
CA 80-315	100x80	**270**	55	75	98	97	95.6	95	91	81.3	74	69	-	-
CA 80-315	100x80	**295**	75	100	124	123	121.6	121	117	107.3	100	95	90	80.8
CA 80-315	100x80	**320**	90	125	144	143	141.6	141	137	127.3	120	115	110	100.8
CA 80-315	100x80	**328**	110	150	153	152	150.6	150	146	136.3	129	124	119	109.8

100-160

2900rpm



PERFORMANCE CURVE

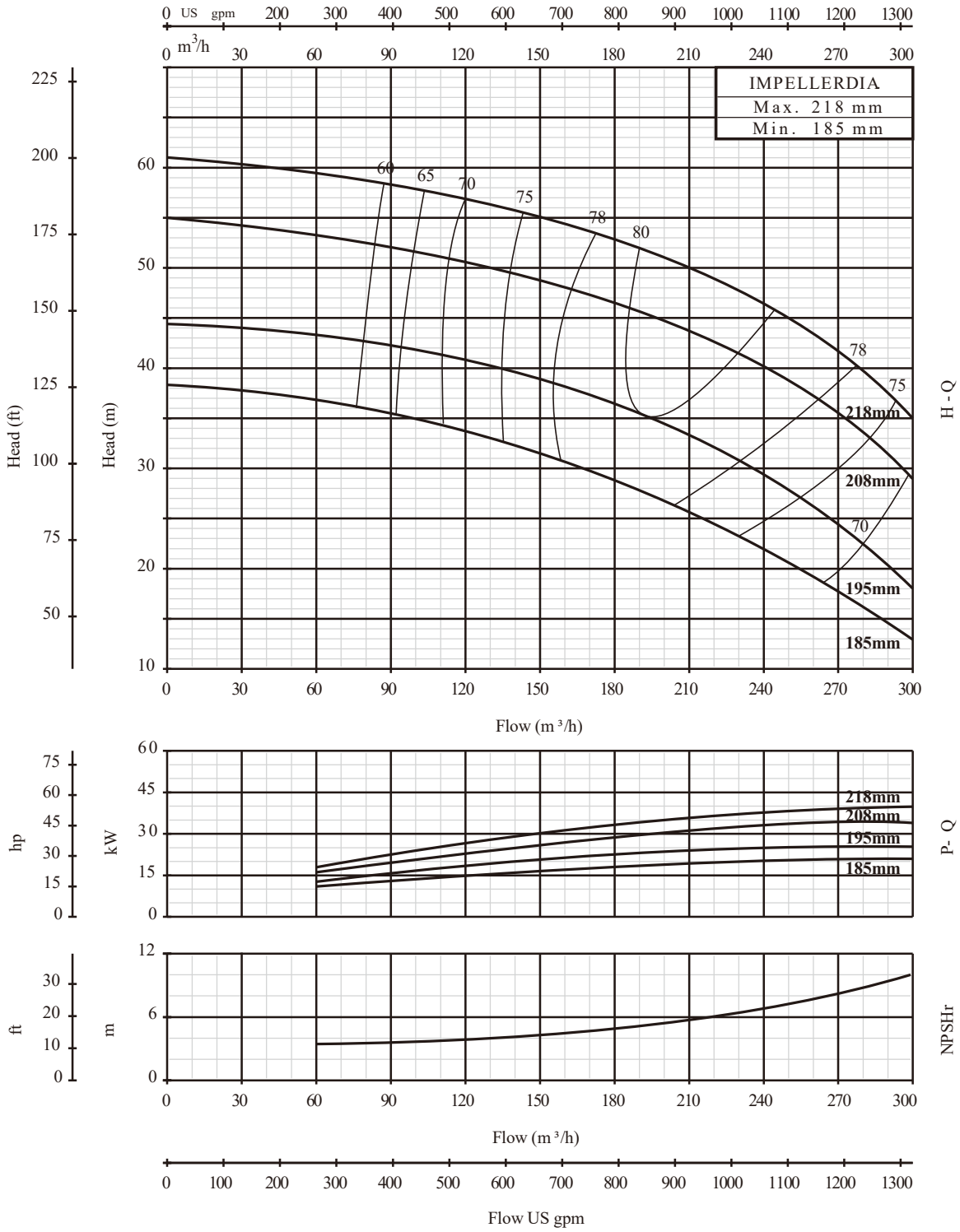
MODEL	DN	Implr Φ	Power		Q=DELIVERY									
					us gpm	0	264	396	529	634	793	881	925	969	1057
					l/min	0	1000	1500	2000	2400	3000	3333	3500	3667	4000
					m³/h	0	60	90	120	144	180	200	210	220	240
	mm	mm	kw	hp	H=Head (m)										
CA 100-160	125x100	167	15	20	35	33.5	32.5	30	27.8	24.5	21.5	20	18.3	15
CA 100-160	125x100	176	18.5	25	38.5	37.5	36.5	34.3	32.2	29	25.7	24	22	18
CA 100-160	125x100	190	22	30	43	41	40	37.6	35.2	31.5	28.5	27	25.3	22

MARO water pumps

100-200

2900rpm

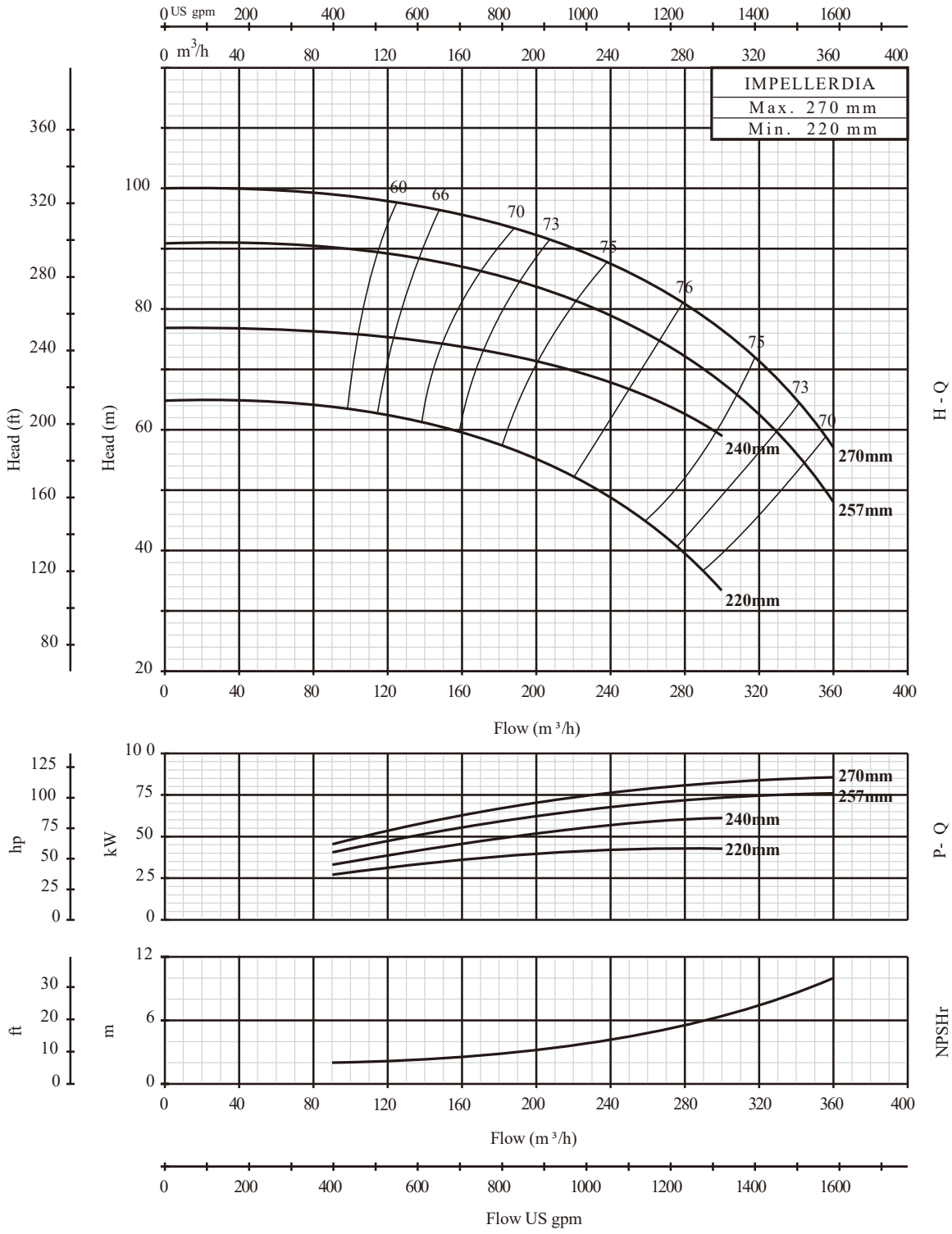
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY											
					us gpm 0	264	396	529	634	793	881	925	969	1057	1233	1322
					l/min 0	1000	1500	2000	2400	3000	3333	3500	3667	4000	4667	5000
					m³/h 0	60	90	120	144	180	200	210	220	240	280	300
	mm	mm	kw	hp	H=Head (m)											
CA 100-200	125x100	**185**	22	30	38.5	36.7	35.7	33.8	31.7	28.5	26.8	26	25	22.9	16.3	13
CA 100-200	125x100	**195**	30	40	44.5	42.5	42	40.2	38.8	36.7	34.2	33	31.7	29	21.7	18
CA 100-200	125x100	**208**	37	50	55	53	51	50.6	49.2	47	45	44	42.8	40.5	32.8	29
CA 100-200	125x100	**218**	45	60	61	59	57	56.6	55.2	53	51	50	48.8	46.5	38.8	35

100-250

2900rpm



PERFORMANCE CURVE

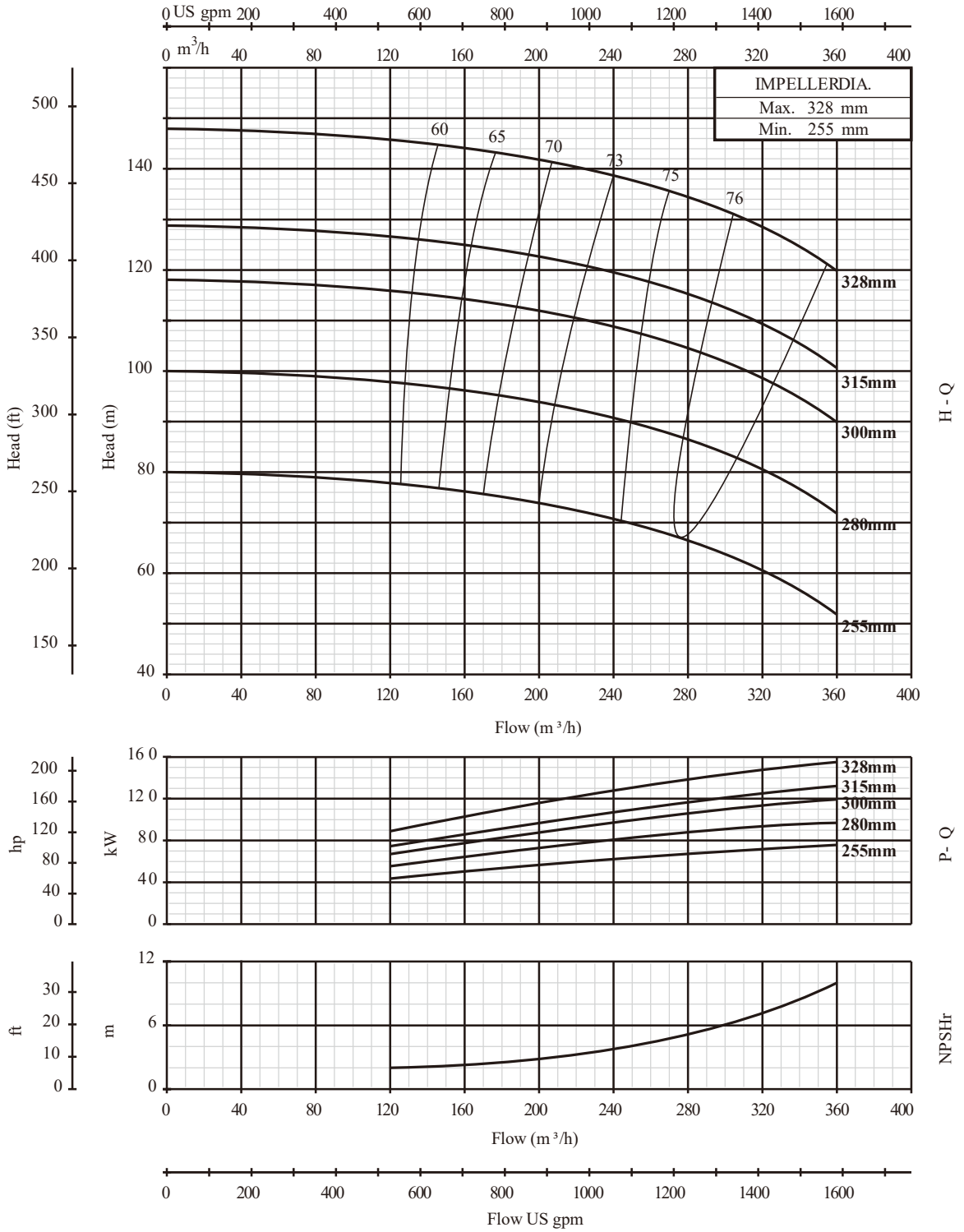
MODEL	DN	Implr Φ	Power		Q=DELIVERY												
					us gpm 0	264	396	529	634	793	881	925	969	1057	1233	1322	1586
					l/min 0	1000	1500	2000	2400	3000	3333	3500	3667	4000	4667	5000	6000
					m³/h 0	60	90	120	144	180	200	210	220	240	280	300	360
	mm	mm	kw	hp	H=Head (m)												
CA 100-250	125x100	**220**	45	60	65	65	64	63	61	58	56	55	53.3	50	39	33.5	-
CA 100-250	125x100	**240**	55	75	77	76	75.5	75	73.8	72	71.7	71.5	70.7	69	62.3	59	-
CA 100-250	125x100	**257**	75	100	91	91	90.5	89.7	88	85.5	84	83.3	81.5	78	71.7	68.5	48
CA 100-250	125x100	**270**	90	125	100	100	99.5	98.7	97	94.5	93	92.3	90.5	87	80.7	77.5	57

MARO water pumps

100-315

2900rpm

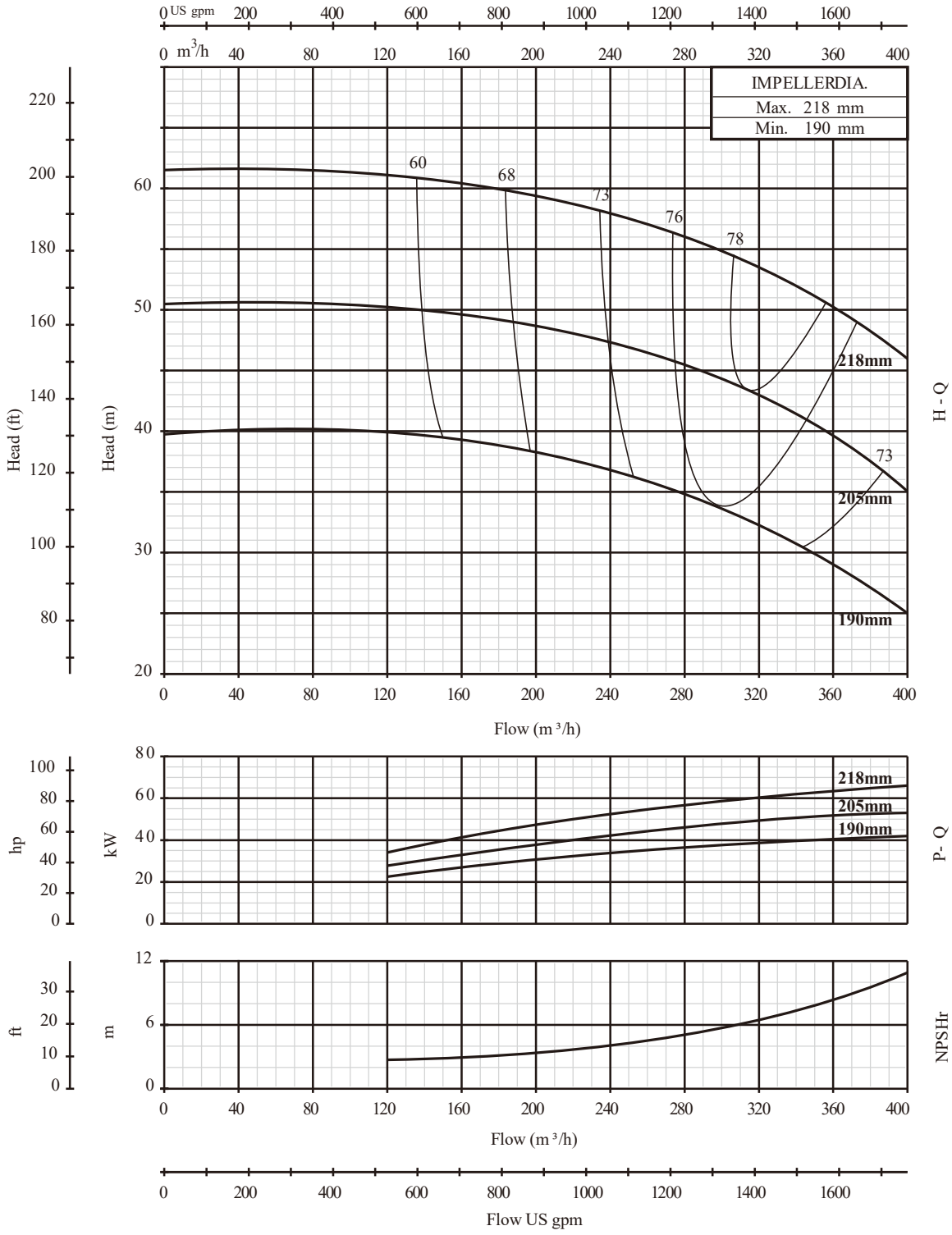
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY										
					us gpm	0	529	634	793	881	925	969	1057	1233	1322	1586
					l/min	0	2000	2400	3000	3333	3500	3667	4000	4667	5000	6000
					m³/h	0	120	144	180	200	210	220	240	280	300	360
	mm	mm	kw	hp	H=Head (m)											
CA 100-315	125x100	255	75	100	80	78.5	76.7	74	73	72.8	72.5	70.7	68	64	52	
CA 100-315	125x100	280	90	125	100	98.5	96.7	94	93	92.8	92.5	90.7	88	84	72	
CA 100-315	125x100	300	110	150	118	116.5	114.7	112	111	110.8	110.5	108.7	106	102	90	
CA 100-315	125x100	315	132	180	129	127.5	125.7	123	122	121.8	121.5	119.7	117	112	101	
CA 100-315	125x100	328	160	220	148	146.5	144.7	142	141	140.8	140.5	138.7	136	132	120	

125-200

2900rpm



PERFORMANCE CURVE

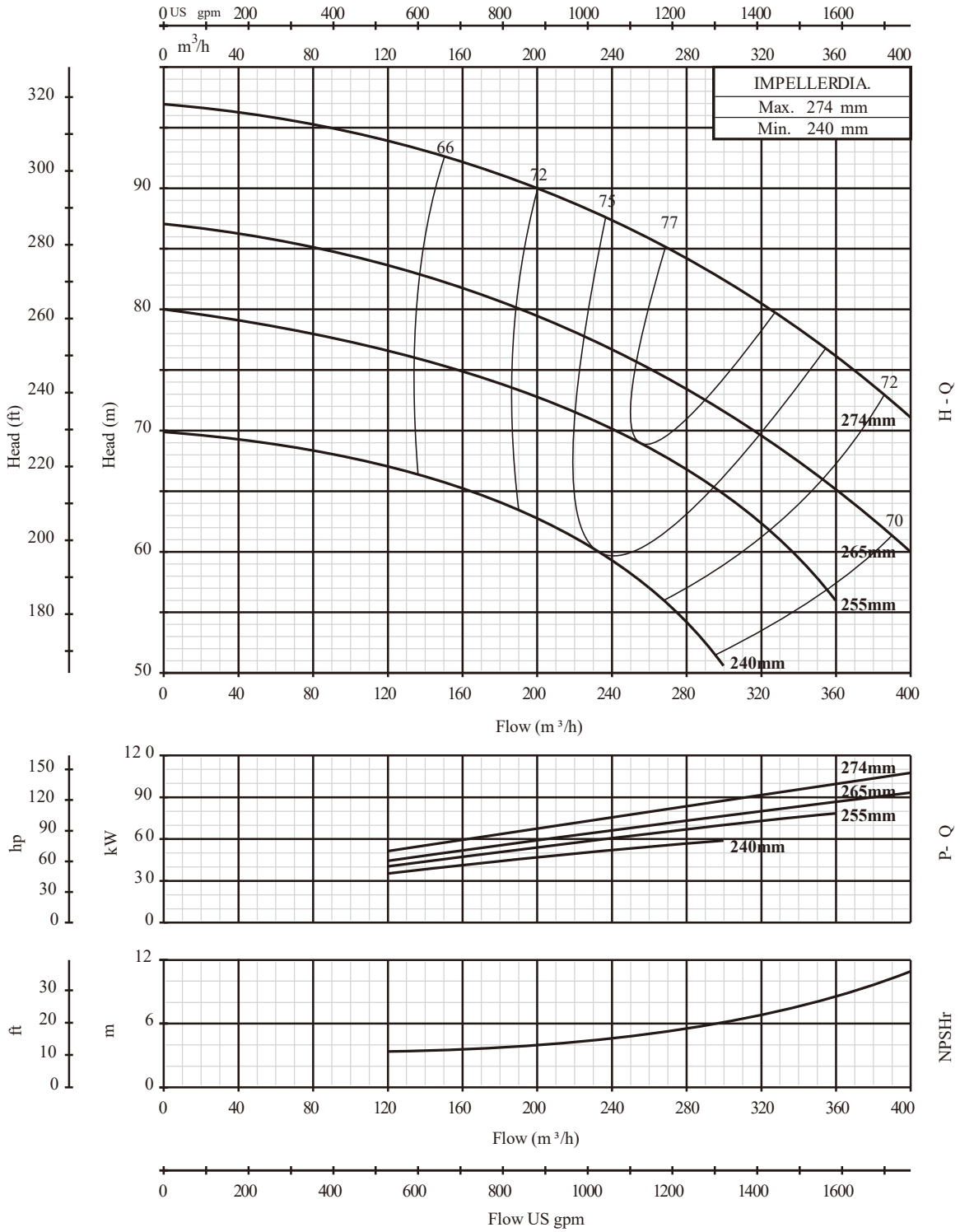
MODEL	DN	Implr Φ	Power		Q=DELIVERY											
					us gpm 0	529	634	793	881	925	969	1057	1233	1322	1586	1762
					l/min 0	2000	2400	3000	3333	3500	3667	4000	4667	5000	6000	6667
					m³/h 0	120	144	180	200	210	220	240	280	300	360	400
	mm	mm	kw	hp	H=Head (m)											
CA 125-200	150x125	**190**	45	60	39.8	39.3	39.2	39	38.9	38.9	38.8	37.5	35	34	28.6	25
CA 125-200	150x125	**205**	55	75	50.5	49.3	49.2	49	48.9	48.9	48.8	47.5	45	44	38.6	35
CA 125-200	150x125	**218**	75	100	61.5	60.3	60.2	60	59.9	59.9	59.8	58.5	56	55	49.6	46

MARO water pumps

125-250

2900rpm

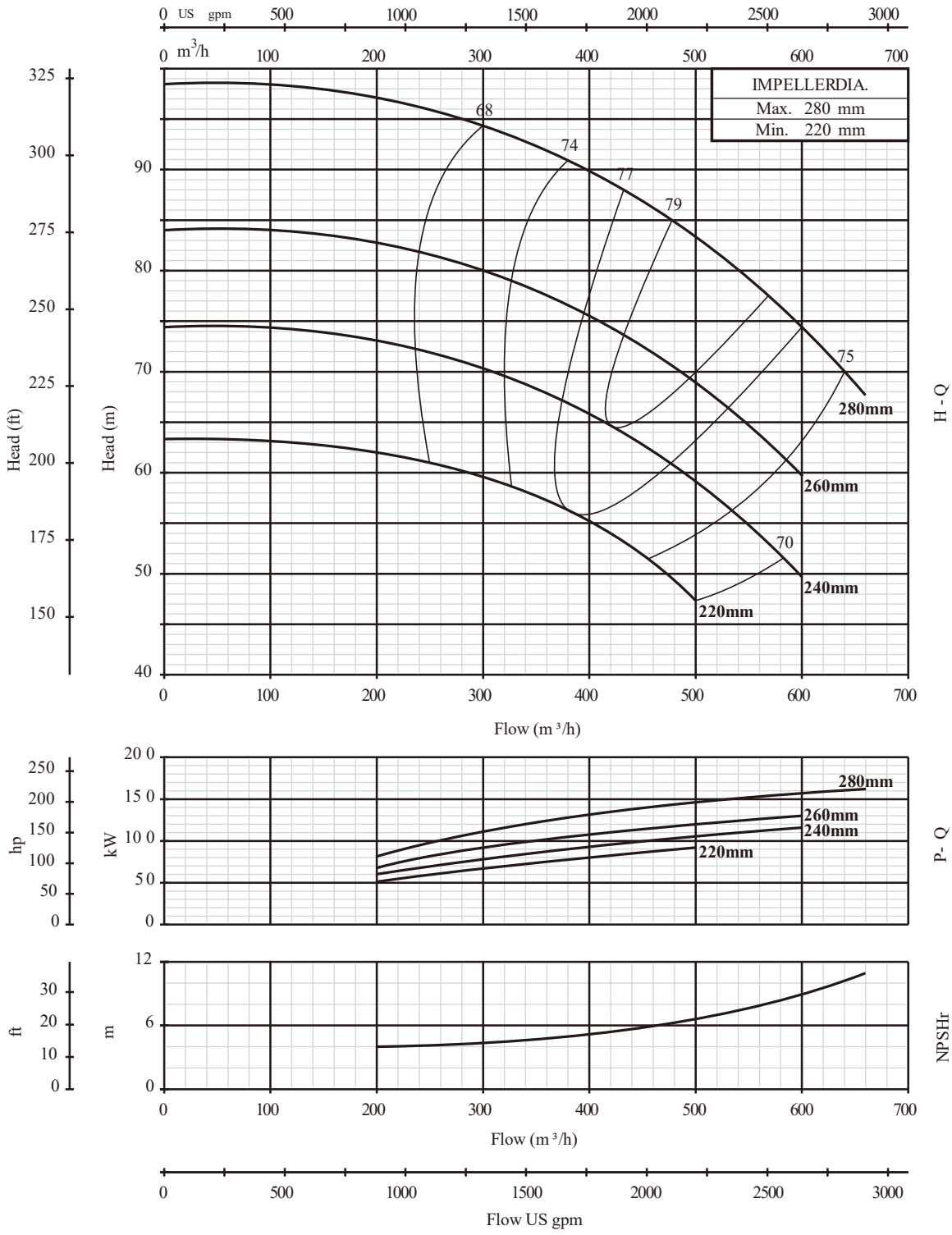
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY											
					us gpm 0	529	634	793	881	925	969	1057	1233	1322	1586	1762
					l/min 0	2000	2400	3000	3333	3500	3667	4000	4667	5000	6000	6667
					m³/h 0	120	144	180	200	210	220	240	280	300	360	400
	mm	mm	kw	hp	H=Head (m)											
CA 125-250	150x125	**240**	55	75	70	67	66	64	63	62	61	59.5	54	50.5	-	-
CA 125-250	150x125	**255**	75	100	80	76.5	75.5	74	73	72	71.5	70	67	65	56	-
CA 125-250	150x125	**265**	90	125	87	84	82.5	81	79.5	79	78	77	73.5	71.5	65	60
CA 125-250	150x125	**274**	110	150	97	94	92.8	91	90	89.3	88.7	87.4	84	83.5	76	71

125-250H

2900rpm



PERFORMANCE CURVE

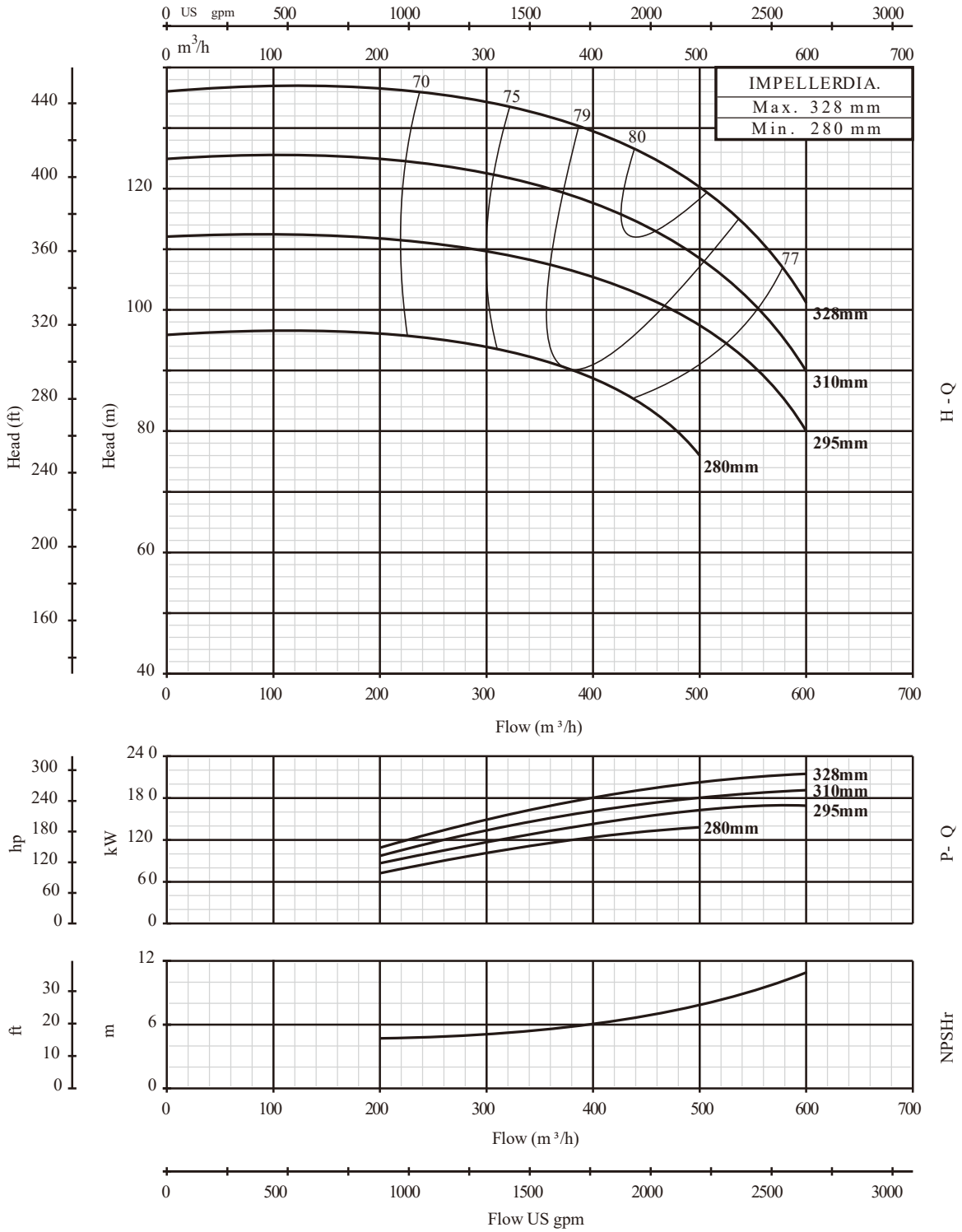
MODEL	DN	Implr Φ	Power		Q=DELIVERY														
					us gpm 0	529	634	793	881	925	969	1057	1233	1322	1586	1762	2203	2643	2907
					l/min 0	2000	2400	3000	3333	3500	3667	4000	4667	5000	6000	6667	8333	10000	11000
					m³/h 0	120	144	180	200	210	220	240	280	300	360	400	500	600	660
	mm	mm	kw	hp	H=Head (m)														
CA 125-250H	150x125	220	90	125	63.2	62.4	62	61.6	61.2	61.2	61.2	60.8	60	59.6	57.2	55.2	47.2	-	-
CA 125-250H	150x125	240	110	150	74	73.2	72.8	72.4	72	72	72	71.6	70.8	70.4	68	66	58	49.6	-
CA 125-250H	150x125	260	132	180	84	83.2	82.8	82.4	82	82	82	81.6	80.8	80.4	78	76	68	59.6	-
CA 125-250H	150x125	280	160	220	98	97.2	96.8	96.4	96	96	96	95.6	94.8	94.4	92	90	82	73.6	67.6

MARO water pumps

125-315

2900rpm

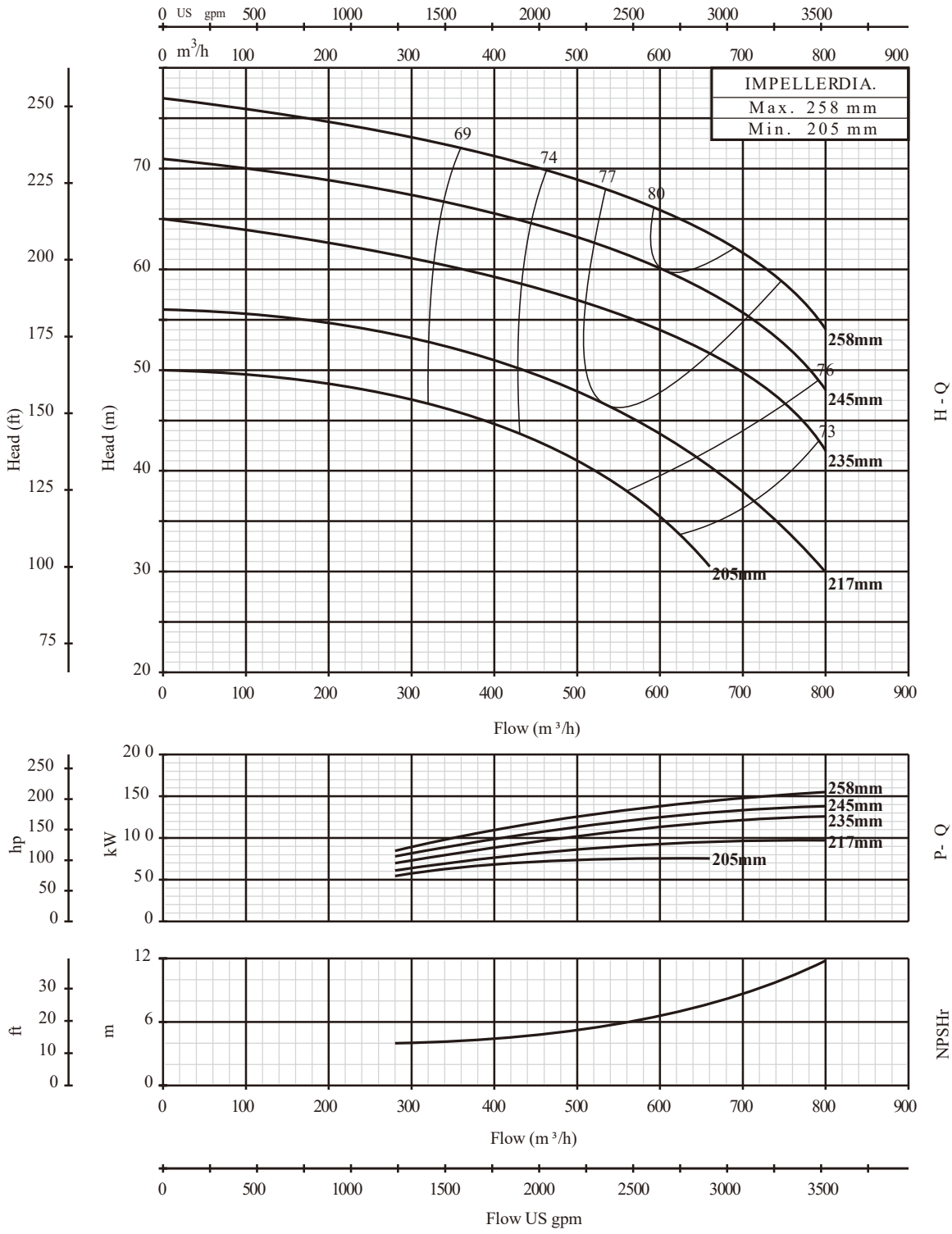
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY										
					us gpm 0	881	925	969	1057	1233	1322	1586	1762	2203	2643
					l/min 0	3333	3500	3667	4000	4667	5000	6000	6667	8333	10000
					m³/h 0	200	210	220	240	280	300	360	400	500	600
	mm	mm	kw	hp	H=Head (m)										
CA 125-315	150x125	280	132	180	96	95.2	95.1	95	94.8	94	93.5	91.8	88.5	76	-
CA 125-315	150x125	295	160	220	112	111.2	111.1	111	110.8	110	109.5	107.8	106	97.5	80
CA 125-315	150x125	310	185	250	125	124.2	124.1	124	123.8	123	122.5	120.8	119	109	90
CA 125-315	150x125	328	200	270	136	135.2	135.1	135	134.8	134	133.5	131.8	130	120	101

150-200

2900rpm



PERFORMANCE CURVE

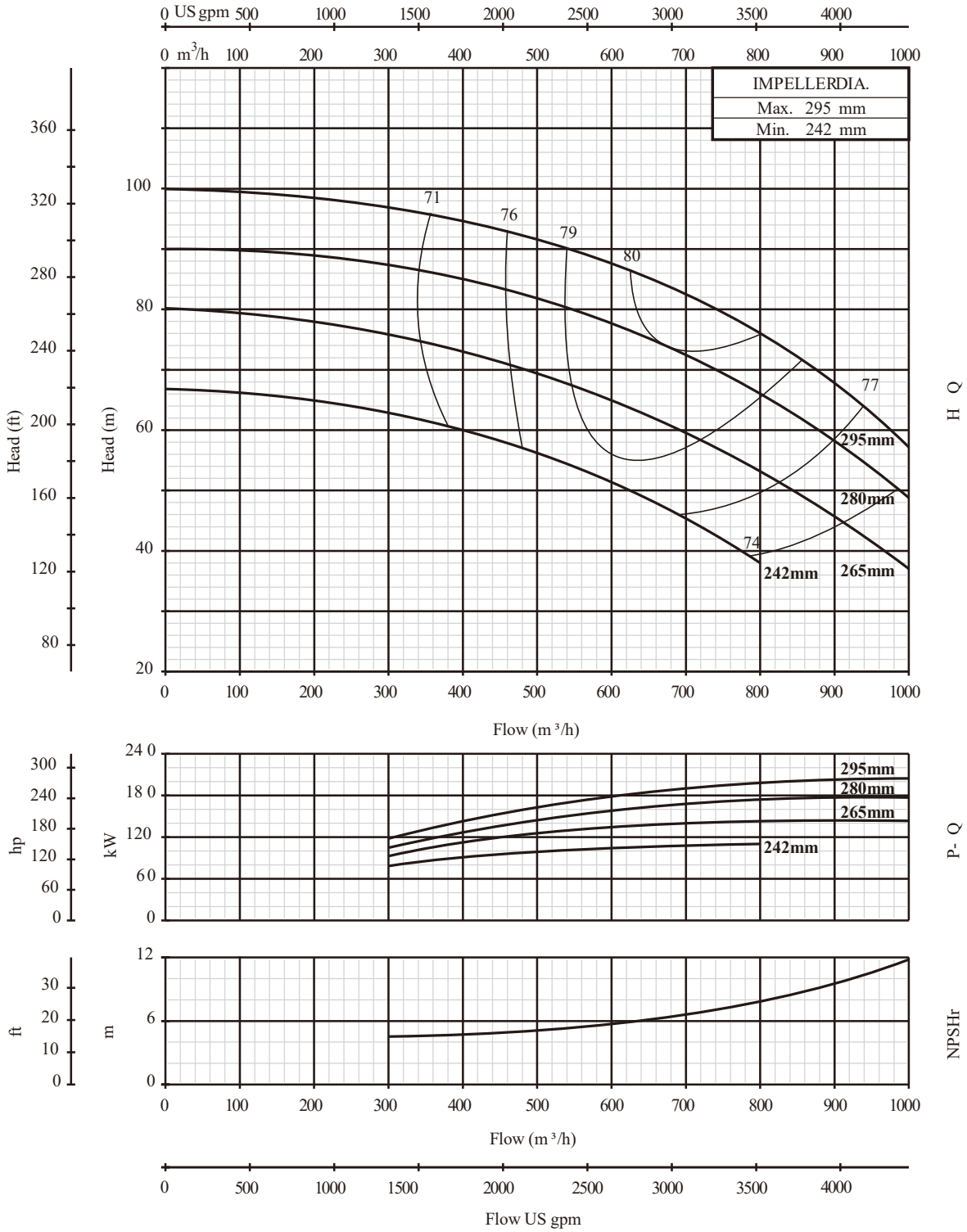
MODEL	DN	Implr Φ	Power		Q=DELIVERY										
					us gpm 0	969	1057	1233	1322	1586	1762	2203	2643	2907	3524
					l/min 0	3667	4000	4667	5000	6000	6667	8333	10000	11000	13333
					m³/h 0	220	240	280	300	360	400	500	600	660	800
	mm	mm	kw	hp	H=Head (m)										
CA 150-200	200x150	**205**	75	100	50	48	47.9	47.6	47.2	45.8	44.6	41	35.5	30.5	-
CA 150-200	200x150	**217**	90	125	56	54	53.9	53.6	53.2	52.7	52.4	48	42.8	39.2	30
CA 150-200	200x150	**235**	110	150	65.2	62	61.7	61.2	60.8	59.8	59.2	57.2	54	51.6	42
CA 150-200	200x150	**245**	132	180	71	68.5	67.7	67.2	66.8	65.8	65.2	63.2	60	57.6	48
CA 150-200	200x150	**258**	160	220	77	74	74	73.2	72.8	71.8	71.2	69.2	66	63.6	54

MARO water pumps

150-250

2900rpm

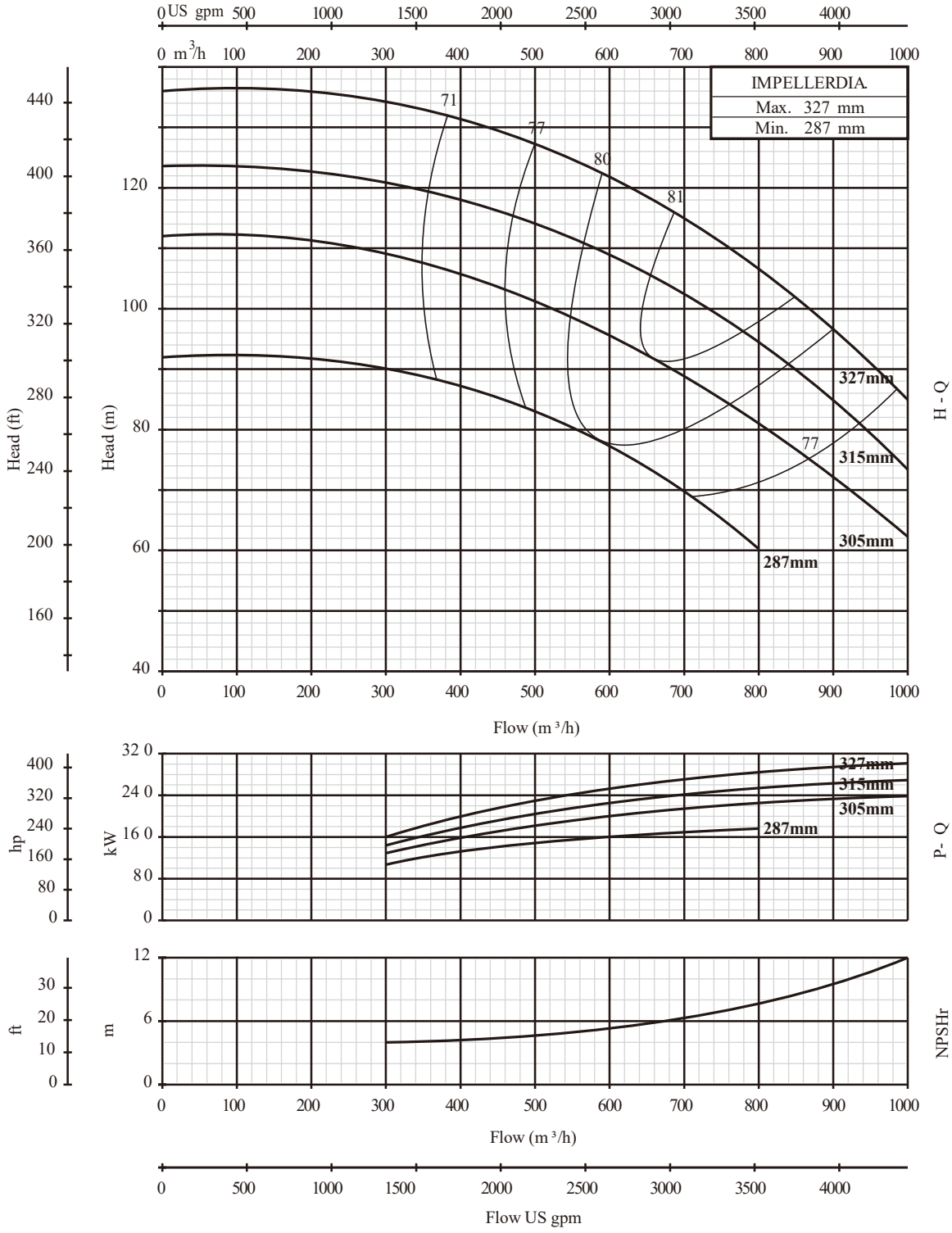
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY								
					us gpm	0	1322	1586	1762	2203	2643	2907	3524	4405
					l/min	0	5000	6000	6667	8333	10000	11000	13333	16667
					m³/h	0	300	360	400	500	600	660	800	1000
	mm	mm	kw	hp	H=Head (m)									
CA 150-250	200x150	242	110	150	67	63	61.7	60	55.8	51.8	48	37.8	-
CA 150-250	200x150	265	132	180	80.2	78	76.3	73.5	70	65	62	53	37.8
CA 150-250	200x150	280	160	220	90	88	86	85	82	77.2	75	66	48
CA 150-250	200x150	295	200	270	100	97	96	95	92	87.2	85	76	57

150-315

2900rpm



MODEL	DN	Implr Φ	Power		Q=DELIVERY								
					us gpm 0	1322	1586	1762	2203	2643	2907	3524	4405
					l/min 0	5000	6000	6667	8333	10000	11000	13333	16667
					m³/h 0	300	360	400	500	600	660	800	1000
	mm	mm	kw	hp	H=Head (m)								
CA 150-315	200x150	287	185	250	92	90	88.3	87.2	82.8	77.8	72	60	-
CA 150-315	200x150	305	250	340	111	110	108	106	102	96	92	81	62.2
CA 150-315	200x150	315	280	380	124	121	119	118	114	109	105	94	73.6
CA 150-315	200x150	327	315	430	135	134	133	132	128	122	118	106	85

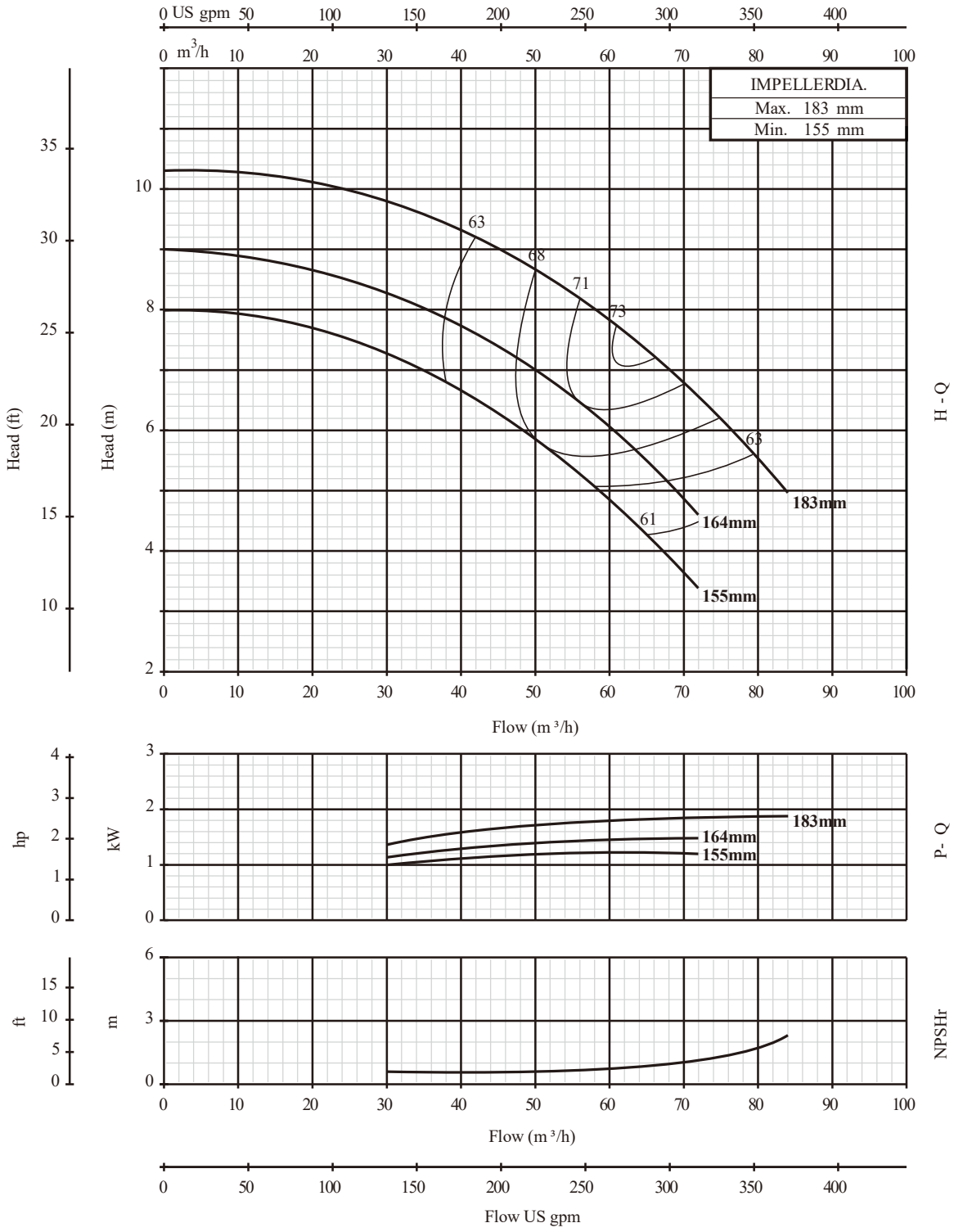
PERFORMANCE CURVE

MARO water pumps

65-160

1450rpm

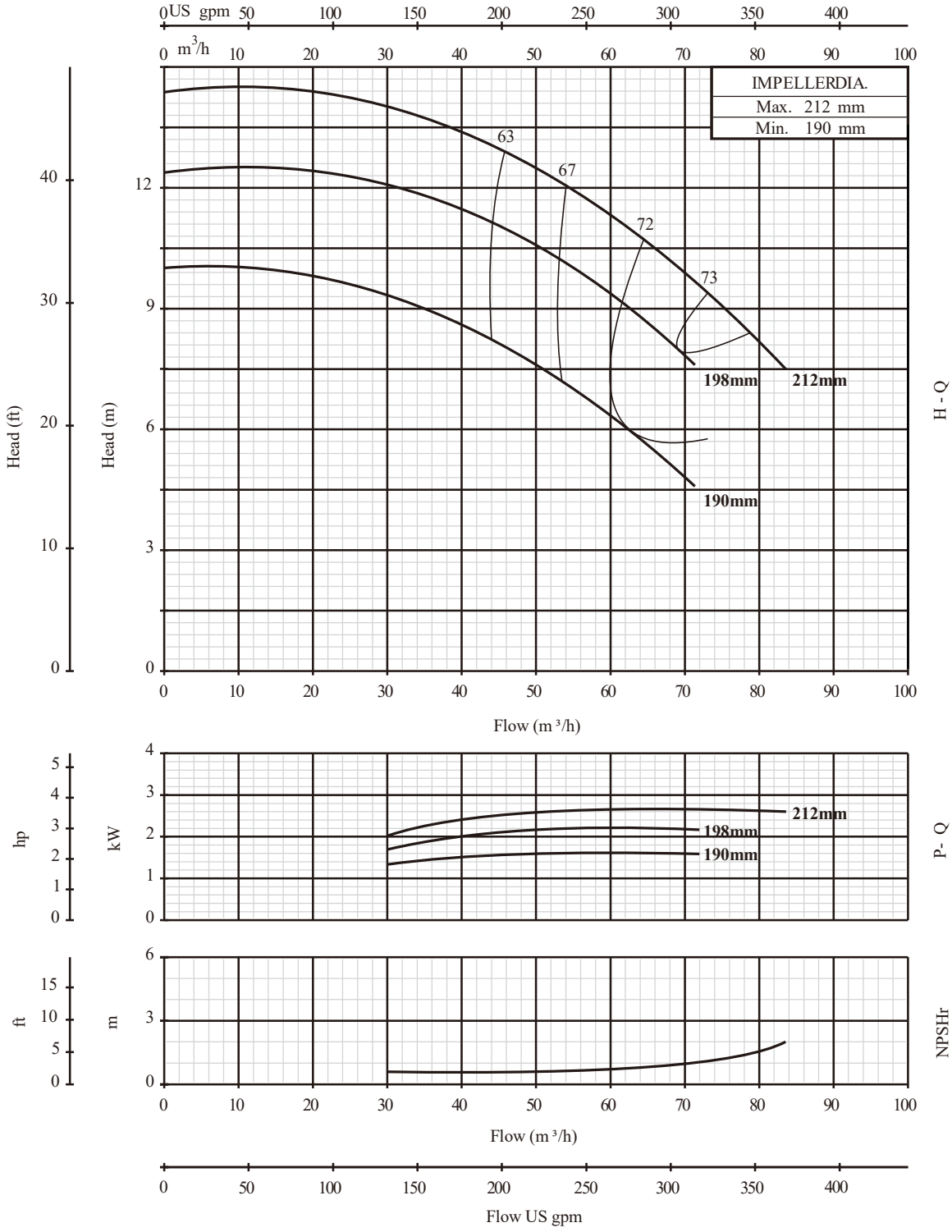
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY										
					us gpm 0	106	119	132	159	185	198	220	264	317	370
					l/min 0	400	450	500	600	700	750	833	1000	1200	1400
					m³/h 0	24	27	30	36	42	45	50	60	72	84
	mm	mm	kw	hp	H=Head (m)										
CA4 65-160	80x65	155	1.1	1.5	8	7.5	7.4	7.3	7	6.6	6.3	5.8	4.8	3.4	-
CA4 65-160	80x65	164	1.5	2	9	8.5	8.4	8.3	8	7.6	7.4	6.9	6	4.6	-
CA4 65-160	80x65	183	2.2	3	10.3	9.9	9.9	9.8	9.5	9.2	9	8.6	7.8	6.5	5

65-200

1450rpm



PERFORMANCE CURVE

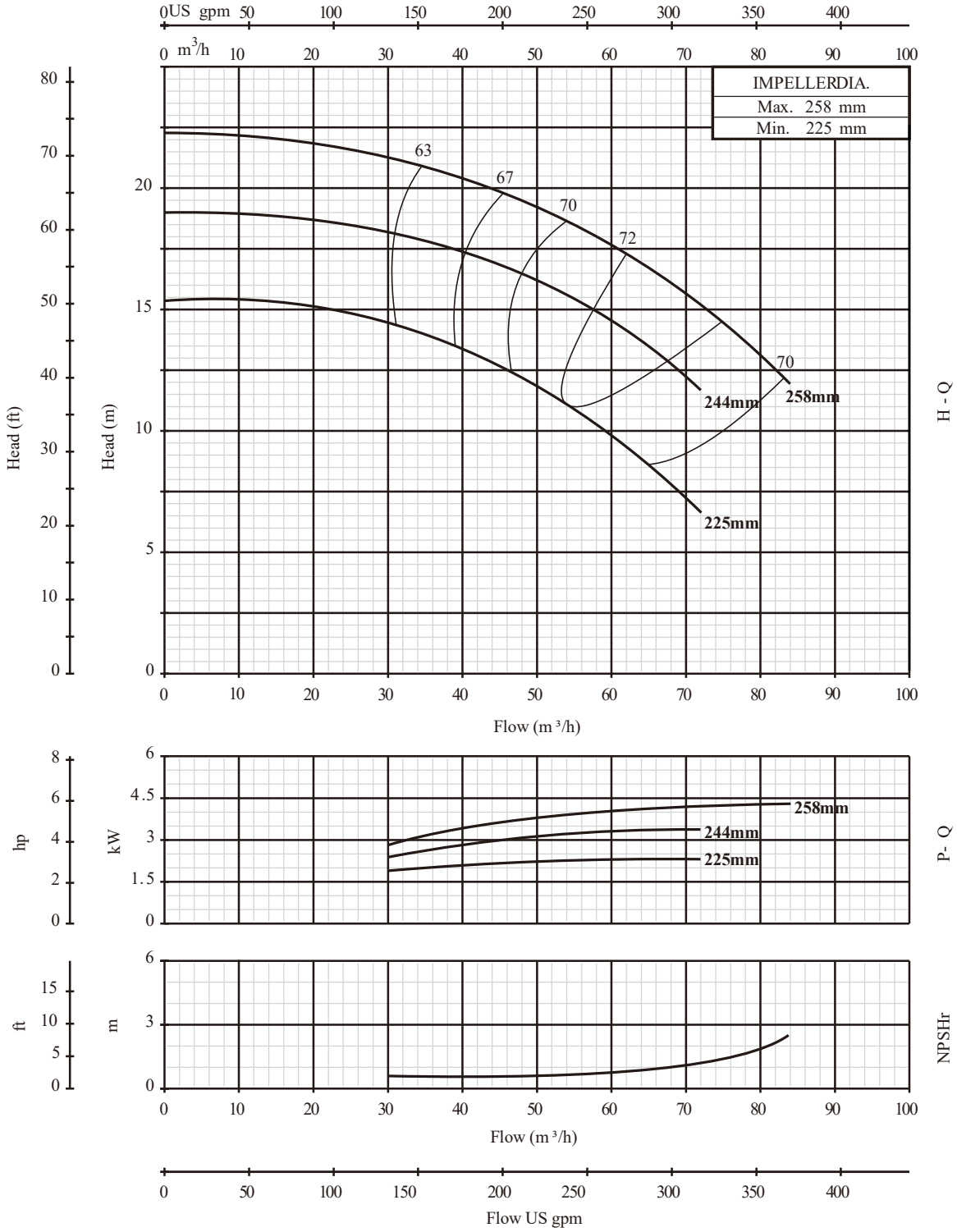
MODEL	DN	Implr Φ	Power		Q=DELIVERY								
					us gpm	0	132	159	185	198	220	264	317	370
					l/min	0	500	600	700	750	833	1000	1200	1400
					m³/h	0	30	36	42	45	50	60	72	84
	mm	mm	kw	hp	H=Head (m)									
CA4 65-200	80x65	190	1.5	2	10	9.6	9.1	8.5	8.2	7.6	6.4	4.6	-
CA4 65-200	80x65	198	2.2	3	12.4	12.2	11.8	11.3	11	10.4	9.3	7.6	-
CA4 65-200	80x65	212	3	4	14.4	14.3	13.8	13.4	13.1	12.5	11.3	9.6	7.5

MARO water pumps

65-250

1450rpm

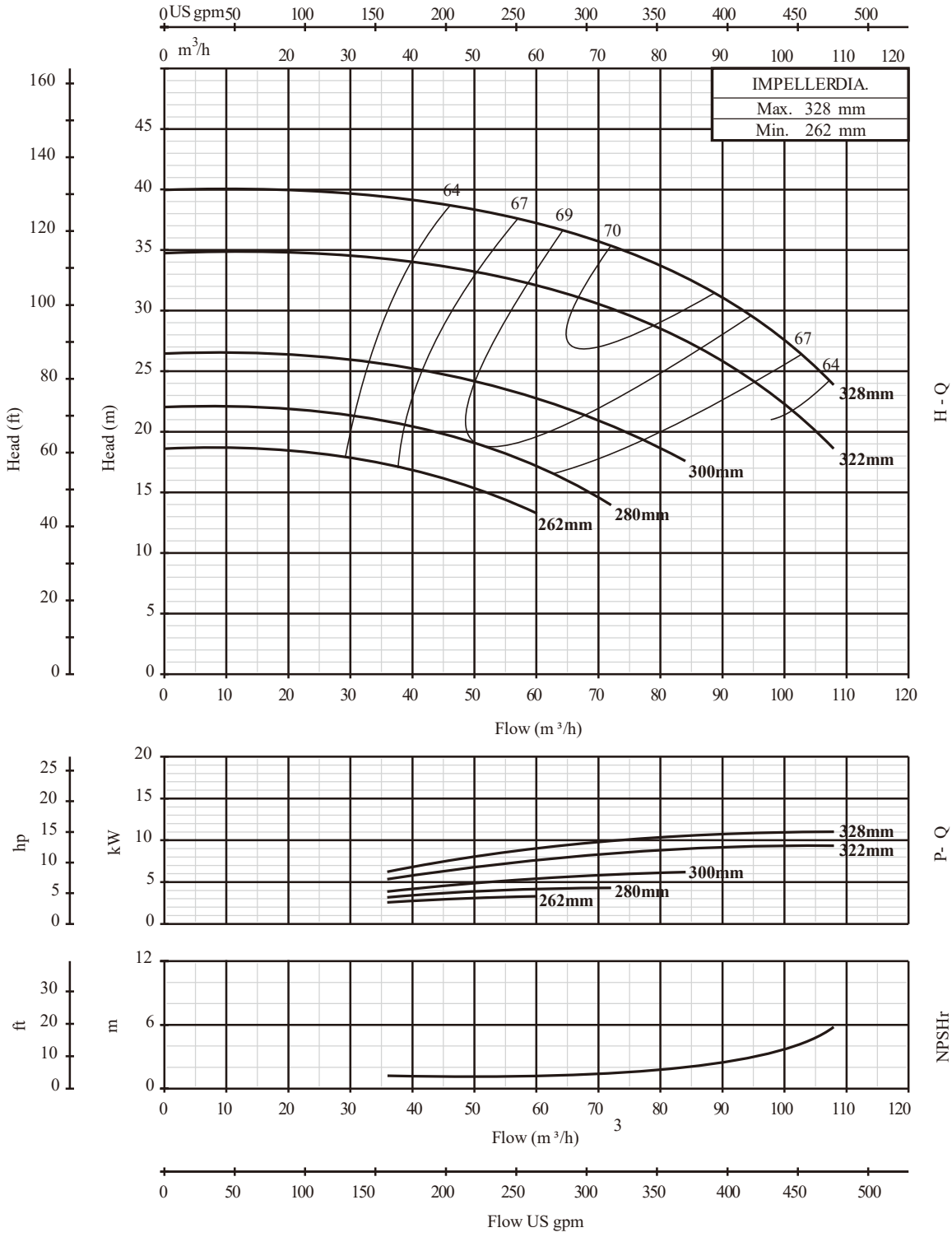
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY								
					us gpm 0	132	159	185	198	220	264	317	370
					l/min 0	500	600	700	750	833	1000	1200	1400
	mm	mm	kw	hp	m³/h 0	30	36	42	45	50	60	72	84
					H=Head (m)								
CA4 65-250	80x65	225	3	4	15.4	14.6	13.9	13.1	12.6	11.6	9.7	6.7	-
CA4 65-250	80x65	244	4	5.5	19	18.3	17.8	17.2	16.9	16.1	14.4	11.7	-
CA4 65-250	80x65	258	5.5	7.5	22.3	21.3	20.9	20.3	19.9	19.2	17.7	15.1	12

65-315

1450rpm



PERFORMANCE CURVE

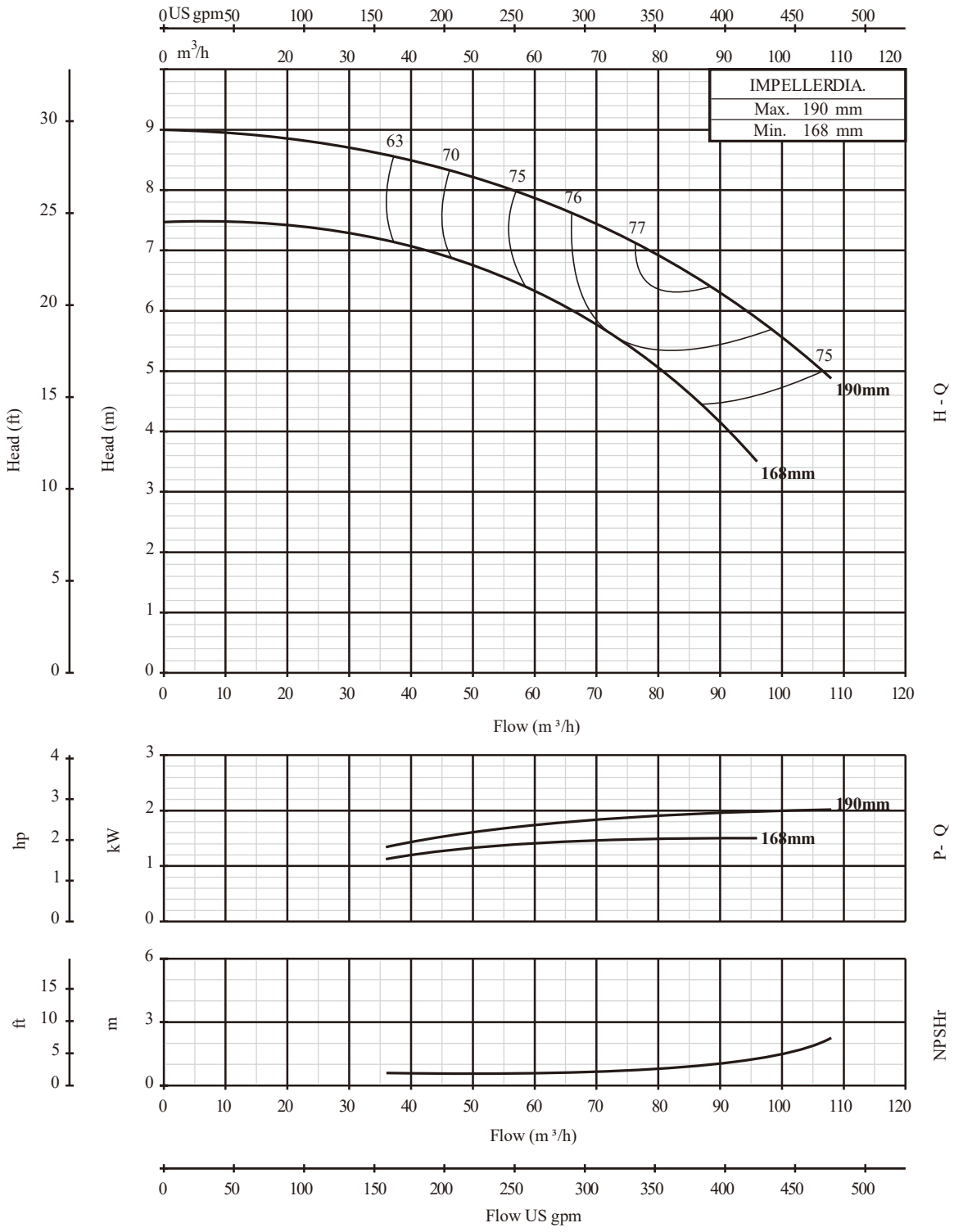
MODEL	DN	Implr Φ	Power		Q=DELIVERY											
					us gpm	0	132	159	185	198	220	264	317	370	396	423	476
					l/min	0	500	600	700	750	833	1000	1200	1400	1500	1600	1800
					m³/h	0	30	36	42	45	50	60	72	84	90	96	108
	mm	mm	kw	hp	H=Head (m)												
CA4 65-315	80x65	262	4	5.5	18.6	17.9	17.3	16.7	16.2	15.2	13.3	-	-	-	-	-
CA4 65-315	80x65	280	5.5	7.5	22.1	-	21.2	20.6	20.2	19.2	17.3	14	-	-	-	-
CA4 65-315	80x65	300	7.5	10	26.5	-	25.6	25.2	24.9	24.3	23	20.8	17.6	-	-	-
CA4 65-315	80x65	322	11	15	34.8	-	34.2	33.9	33.7	33.2	32.1	30.2	27.4	25.6	23.7	18.7
CA4 65-315	80x65	328	15	20	40	-	39.4	39.1	38.9	38.4	37.3	35.4	32.6	30.8	28.9	23.9

MARO water pumps

80-160

1450rpm

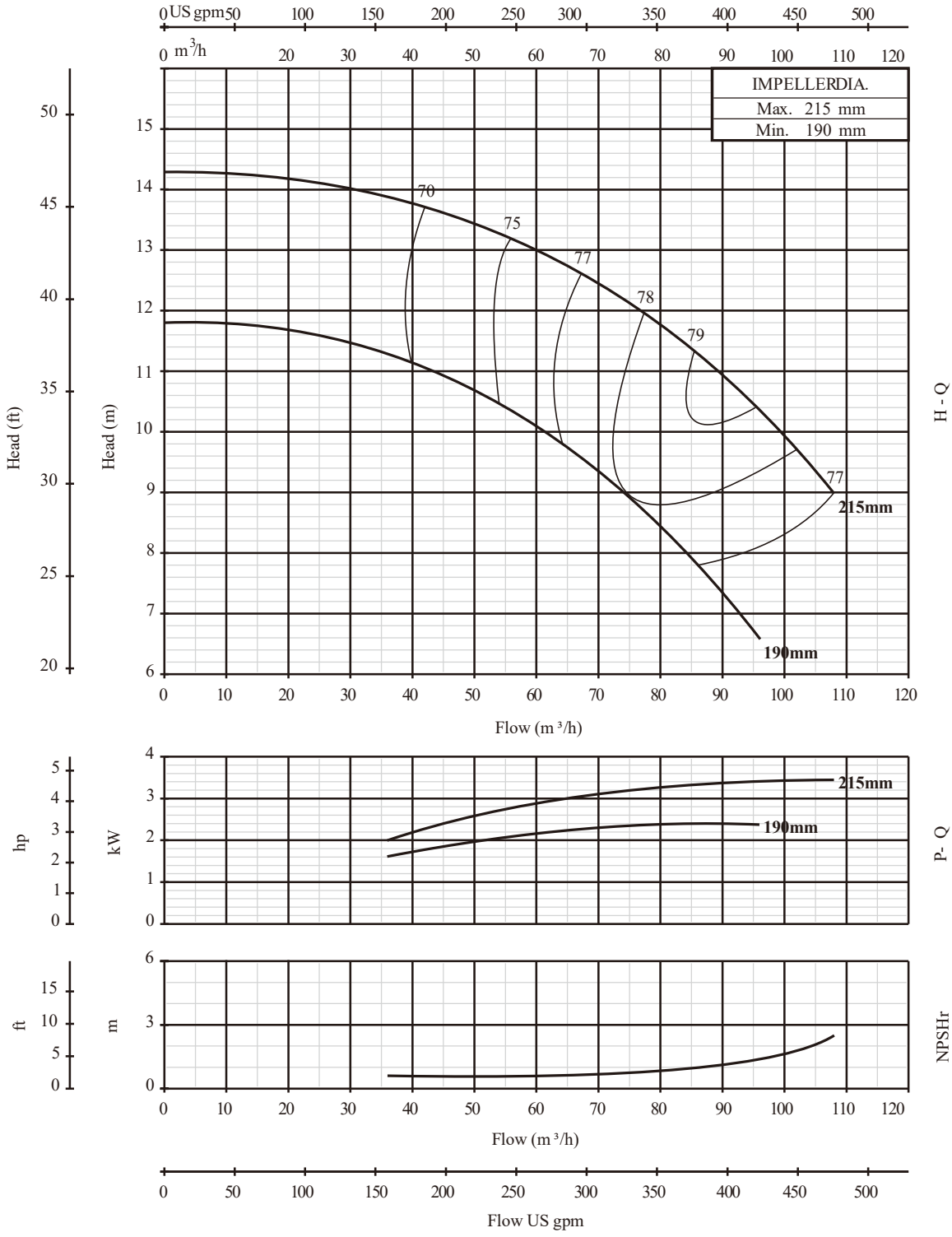
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY								
					us gpm 0	198	220	264	317	370	396	423	476
					l/min 0	750	833	1000	1200	1400	1500	1600	1800
	mm	mm	kw	hp	m³/h 0	45	50	60	72	84	90	96	108
					H=Head (m)								
CA4 80-160	100x80	168	1.5	2	7.5	7.1	6.9	6.4	5.5	4.6	4.1	3.5	-
CA4 80-160	100x80	190	2.2	3	9	8.6	8.4	8	7.4	6.6	6.2	5.7	5

80-200

1450rpm



MODEL	DN	Implr Φ	Power		Q=DELIVERY								
					us gpm 0	198	220	264	317	370	396	423	476
					l/min 0	750	833	1000	1200	1400	1500	1600	1800
					m³/h 0	45	50	60	72	84	90	96	108
	mm	mm	kw	hp	H=Head (m)								
CA4 80-200	100x80	190	3	4	11.8	11	10.7	10.1	9.2	8	7.3	6.6	-
CA4 80-200	100x80	215	4	5.5	14.2	13.8	13.6	13.3	12.4	11.3	10.7	10	9

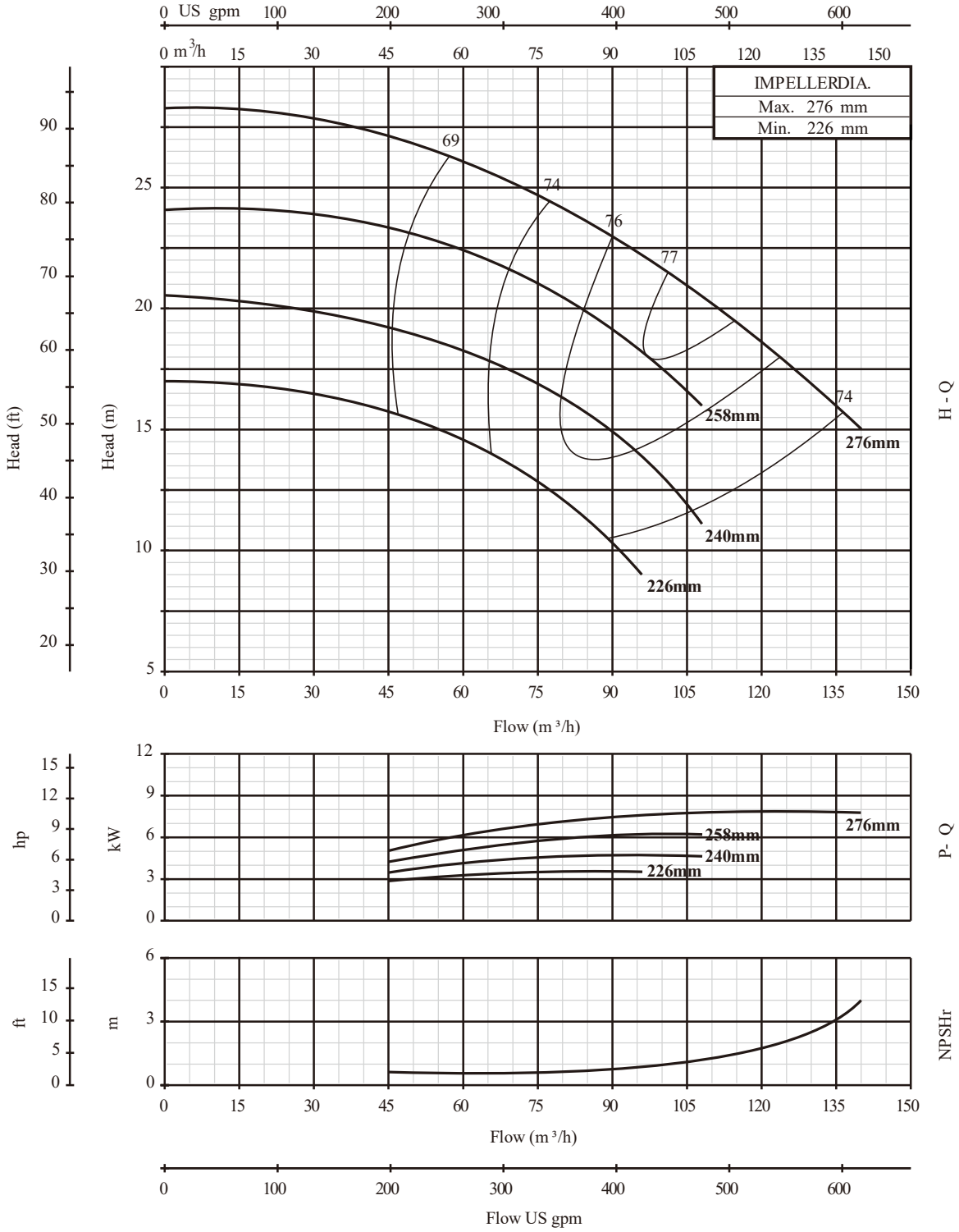
PERFORMANCE CURVE

MARO water pumps

80-250

1450rpm

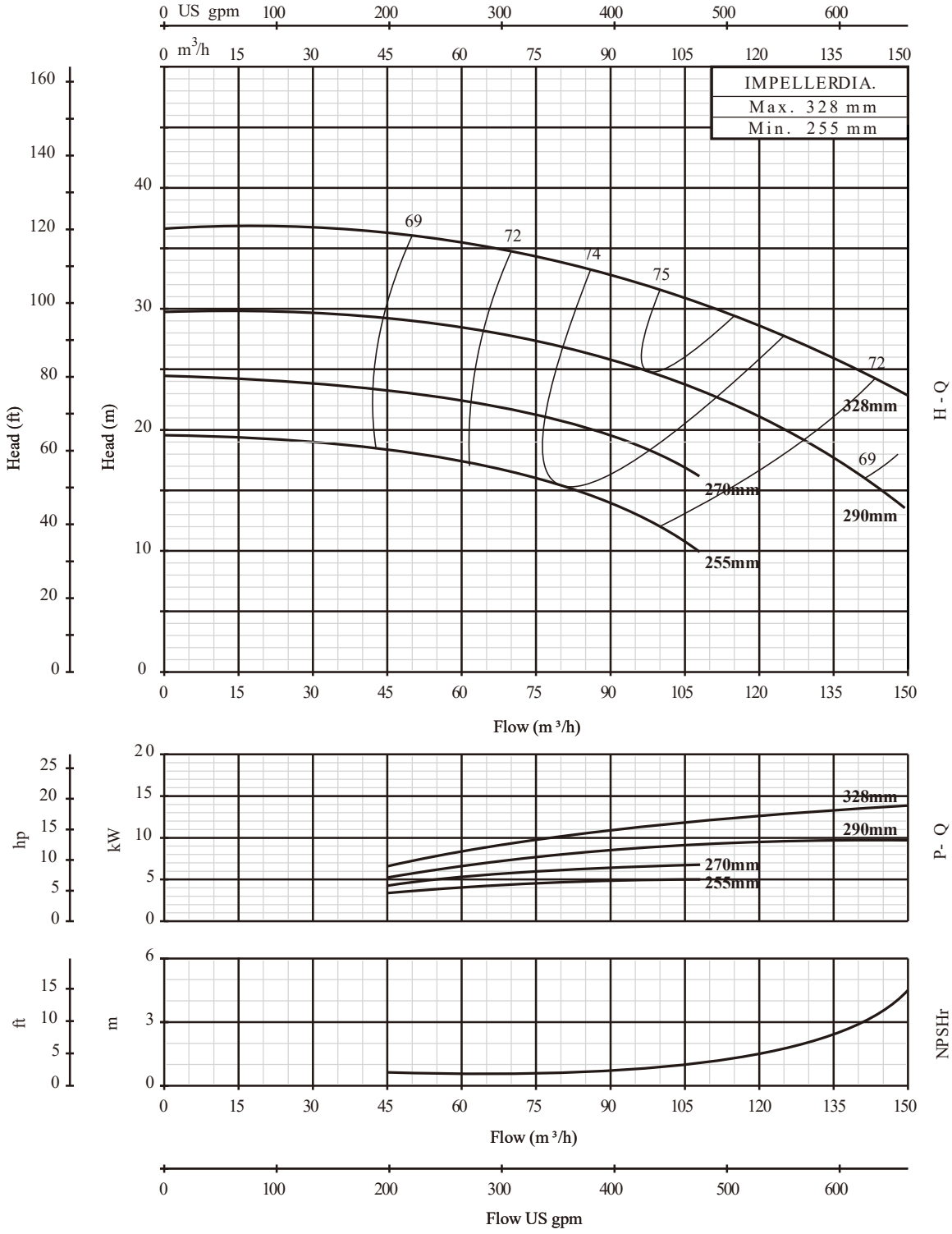
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY									
					us gpm	0	198	220	264	317	370	396	423	476	617
					l/min	0	750	833	1000	1200	1400	1500	1600	1800	2333
					m³/h	0	45	50	60	72	84	90	96	108	140
	mm	mm	kw	hp	H=Head (m)										
CA4 80-250	100x80	226	4	5.5	17	16	15.6	14.8	13.2	11.4	10.2	9	-	-
CA4 80-250	100x80	240	5.5	7.5	20.5	19.5	19.1	18.4	17.2	15.5	14.5	13.5	11.1	-
CA4 80-250	100x80	258	7.5	10	24	23.5	23.2	22.5	21.3	19.9	19	18.1	16	-
CA4 80-250	100x80	276	11	15	28.2	27.5	27.2	26.5	25.3	23.9	23	22.1	20	15

80-315

1450rpm



PERFORMANCE CURVE

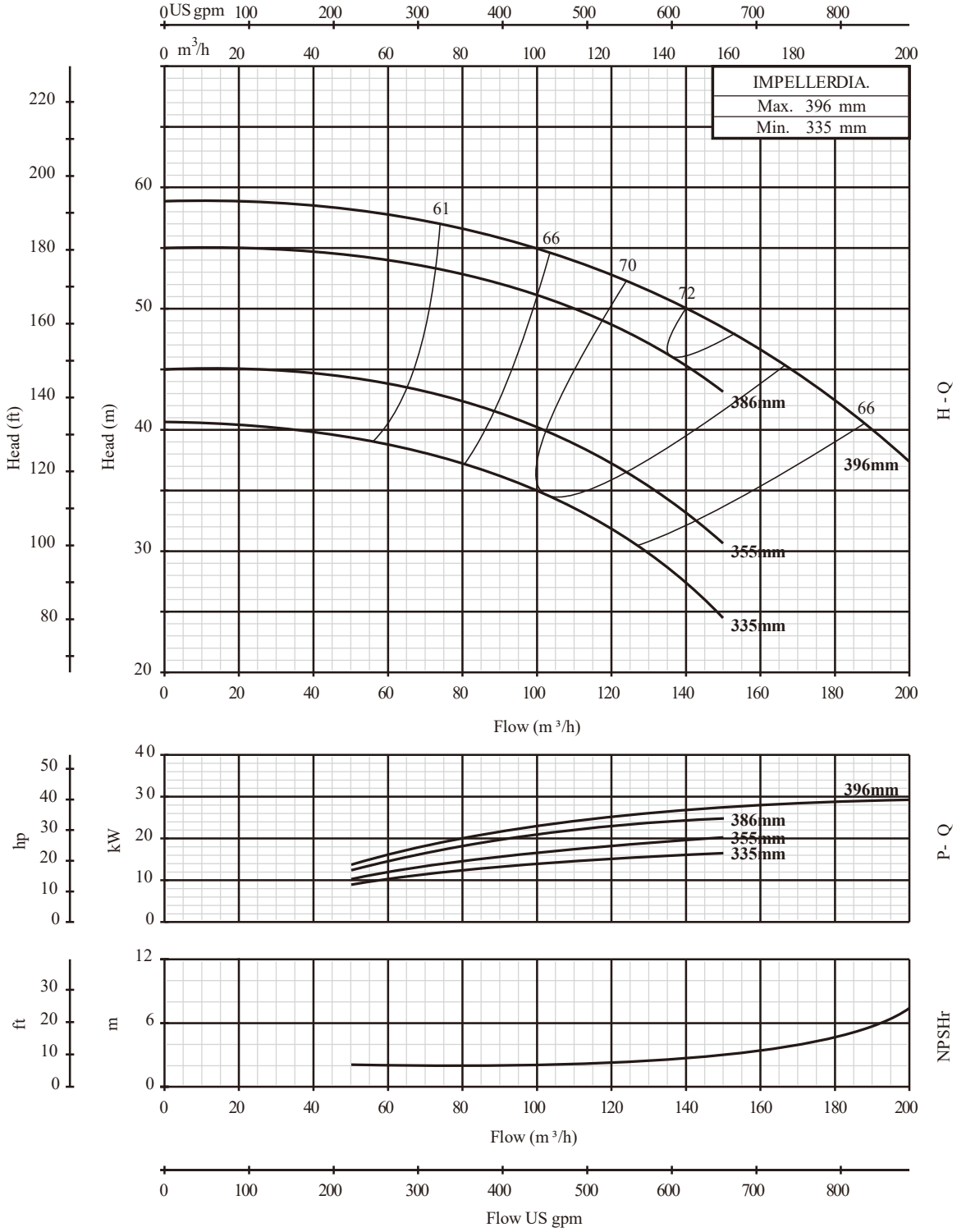
MODEL	DN	Implr Φ	Power		Q=DELIVERY										
					us gpm 0	198	220	264	317	370	396	423	476	617	661
					l/min 0	750	833	1000	1200	1400	1500	1600	1800	2333	2500
					m³/h 0	45	50	60	72	84	90	96	108	140	150
	mm	mm	kw	hp	H=Head (m)										
CA4 80-315	100x80	255	5.5	7.5	19.7	19.1	18.8	18.1	16.8	15	13.9	12.8	10.1	-	-
CA4 80-315	100x80	270	7.5	10	24.6	23.9	23.6	23	21.9	20.4	19.5	18.6	16.3	-	-
CA4 80-315	100x80	290	11	15	29.9	29.4	29.2	28.8	28.1	27	26.3	25.5	23.6	16.5	13.5
CA4 80-315	100x80	328	15	20	36.8	36.4	36.1	35.6	34.7	33.6	33	32.4	30.9	25.3	23

MARO water pumps

80-400

1450rpm

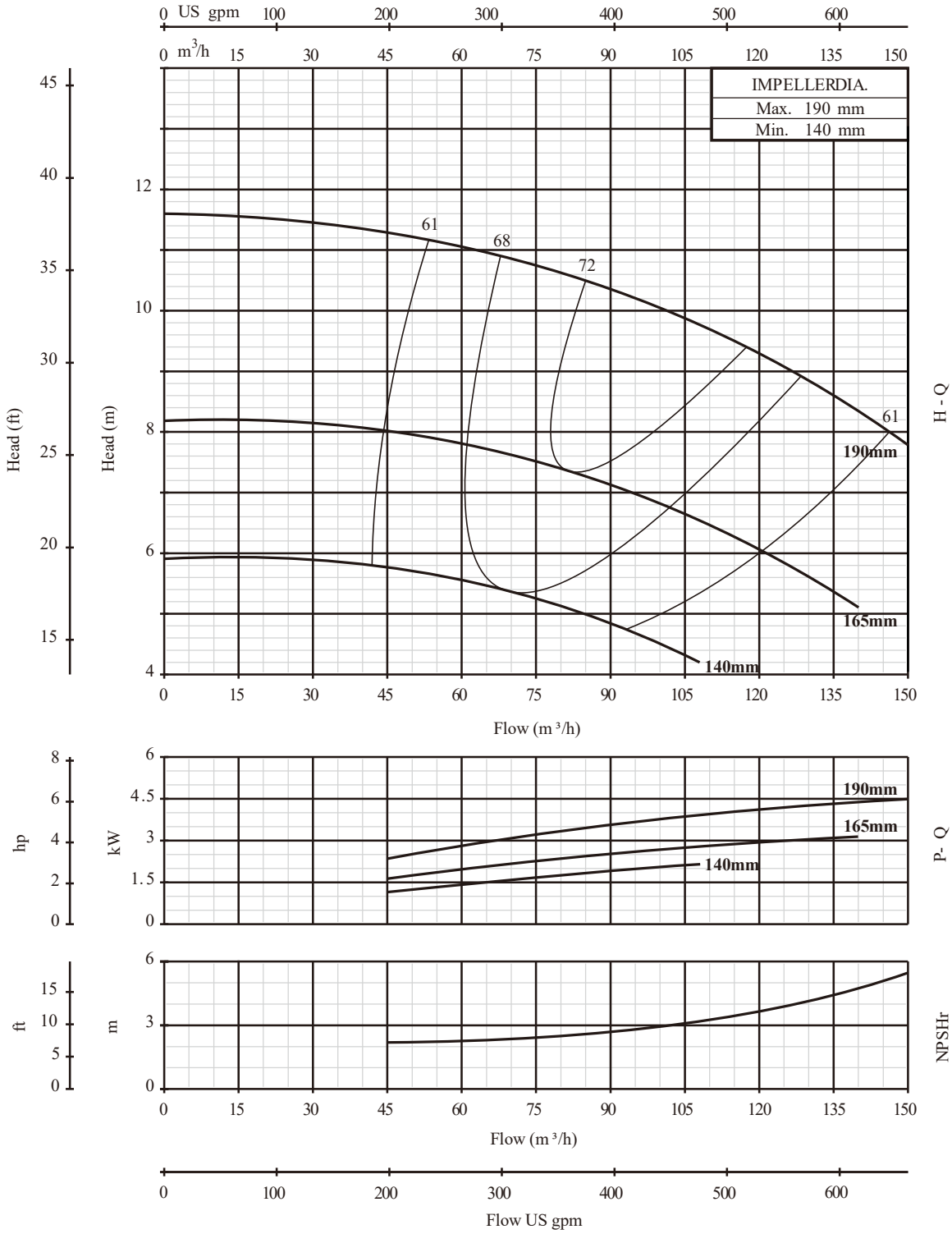
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY											
					us gpm 0	198	220	264	317	370	396	423	476	617	661	881
					l/min 0	750	833	1000	1200	1400	1500	1600	1800	2333	2500	3333
					m³/h 0	45	50	60	72	84	90	96	108	140	150	200
	mm	mm	kw	hp	H=Head (m)											
CA4 80-400	100x80	335	18.5	25	40.3	39.7	39.5	39.1	38.4	37.3	36.6	35.9	34.1	27.3	24.5	-
CA4 80-400	100x80	355	22	30	45.1	44.6	44.5	44.2	43.6	42.6	42	41.4	39.8	33.4	30.7	-
CA4 80-400	100x80	386	30	40	55.1	54.7	54.6	54.4	54	53.3	52.8	52.2	50.9	45.4	43.2	-
CA4 80-400	100x80	396	37	50	59	58.7	58.6	58.4	58	57.3	56.8	56.2	54.9	49.4	47.2	37.5

100-160

1450rpm



PERFORMANCE CURVE

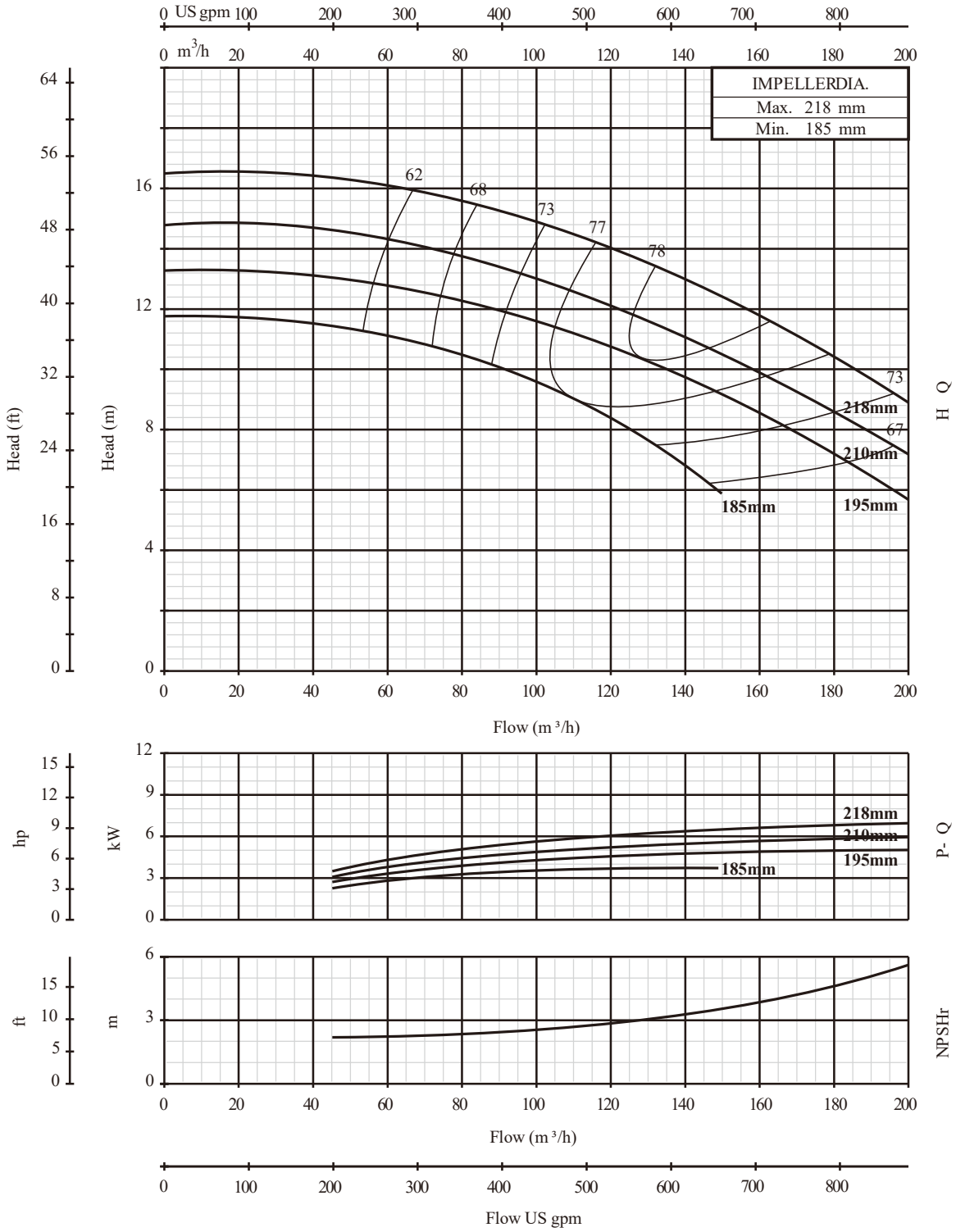
MODEL	DN	Implr Φ	Power		Q=DELIVERY										
					us gpm 0	198	220	264	317	370	396	423	476	617	661
					l/min 0	750	833	1000	1200	1400	1500	1600	1800	2333	2500
					m³/h 0	45	50	60	72	84	90	96	108	140	150
	mm	mm	kw	hp	H=Head (m)										
CA4 100-160	125x100	140	2.2	3	5.9	5.8	5.7	5.5	5.3	5	4.9	4.6	4.3	-	-
CA4 100-160	125x100	165	3	4	8.2	8.1	8	7.9	7.6	7.3	7.2	6.9	6.5	5.1	-
CA4 100-160	125x100	190	4	5.5	11.5	11.5	11.4	11.2	10.9	10.6	10.5	10.2	9.8	8.4	7.8

MARO water pumps

100-200

1450rpm

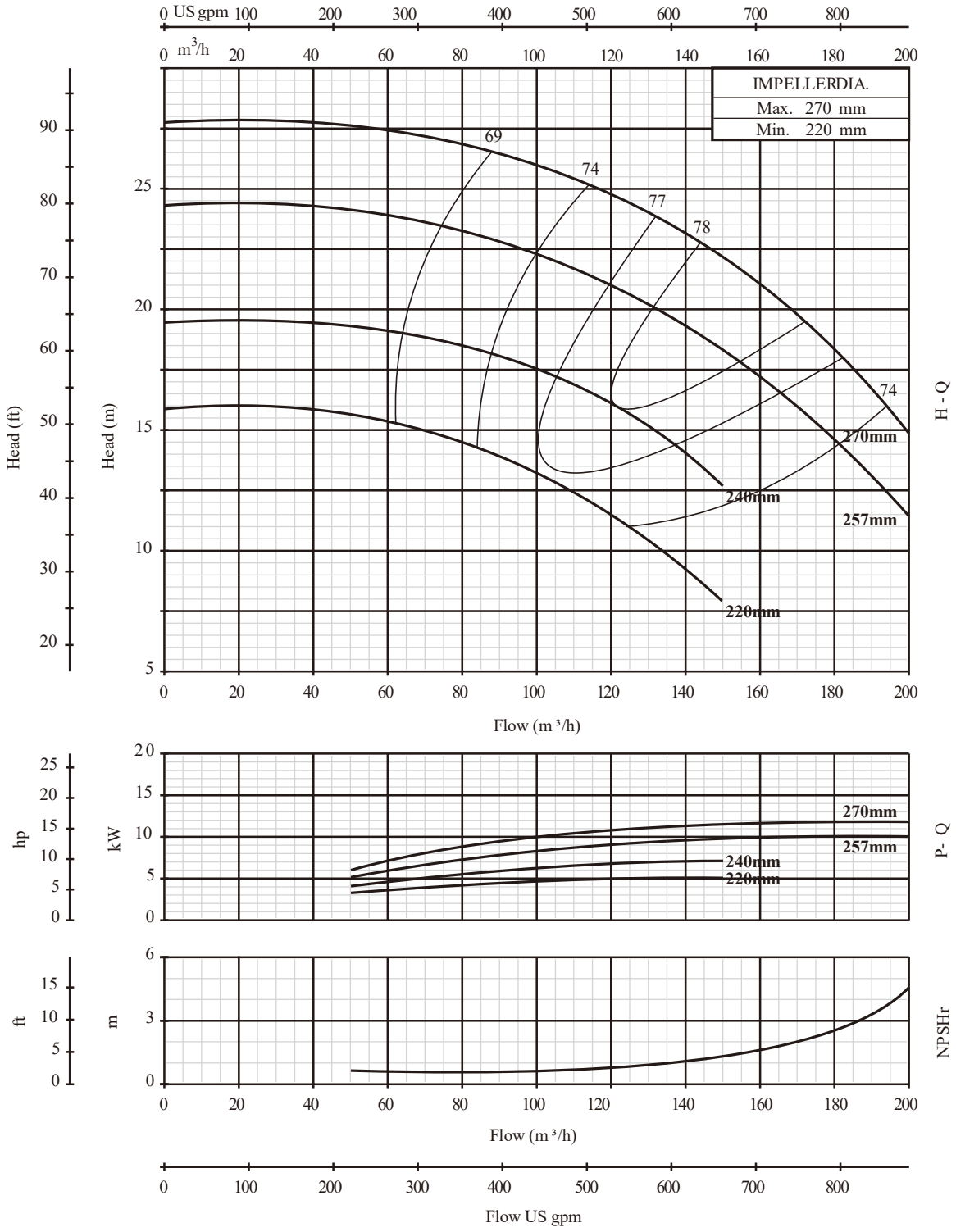
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY											
					us gpm 0	198	220	264	317	370	396	423	476	617	661	881
					l/min 0	750	833	1000	1200	1400	1500	1600	1800	2333	2500	3333
					m³/h 0	45	50	60	72	84	90	96	108	140	150	200
	mm	mm	kw	hp	H=Head (m)											
CA4 100-200	125x100	185	4	5.5	11.8	11.7	11.6	11.4	11	10.5	10.3	9.7	9.1	6.8	5.9	-
CA4 100-200	125x100	195	5.5	7.5	13.3	13.2	13.2	13	12.7	12.4	12.3	12	11.5	9.6	8.8	5.7
CA4 100-200	125x100	210	5.5	7.5	14.8	14.7	14.7	14.5	14.2	13.9	13.8	13.5	13	11.1	10.3	7.2
CA4 100-200	125x100	218	9.2	12.5	16.5	16.4	16.4	16.2	15.9	15.6	15.5	15.2	14.7	12.8	12	8.9

100-250

1450rpm



PERFORMANCE CURVE

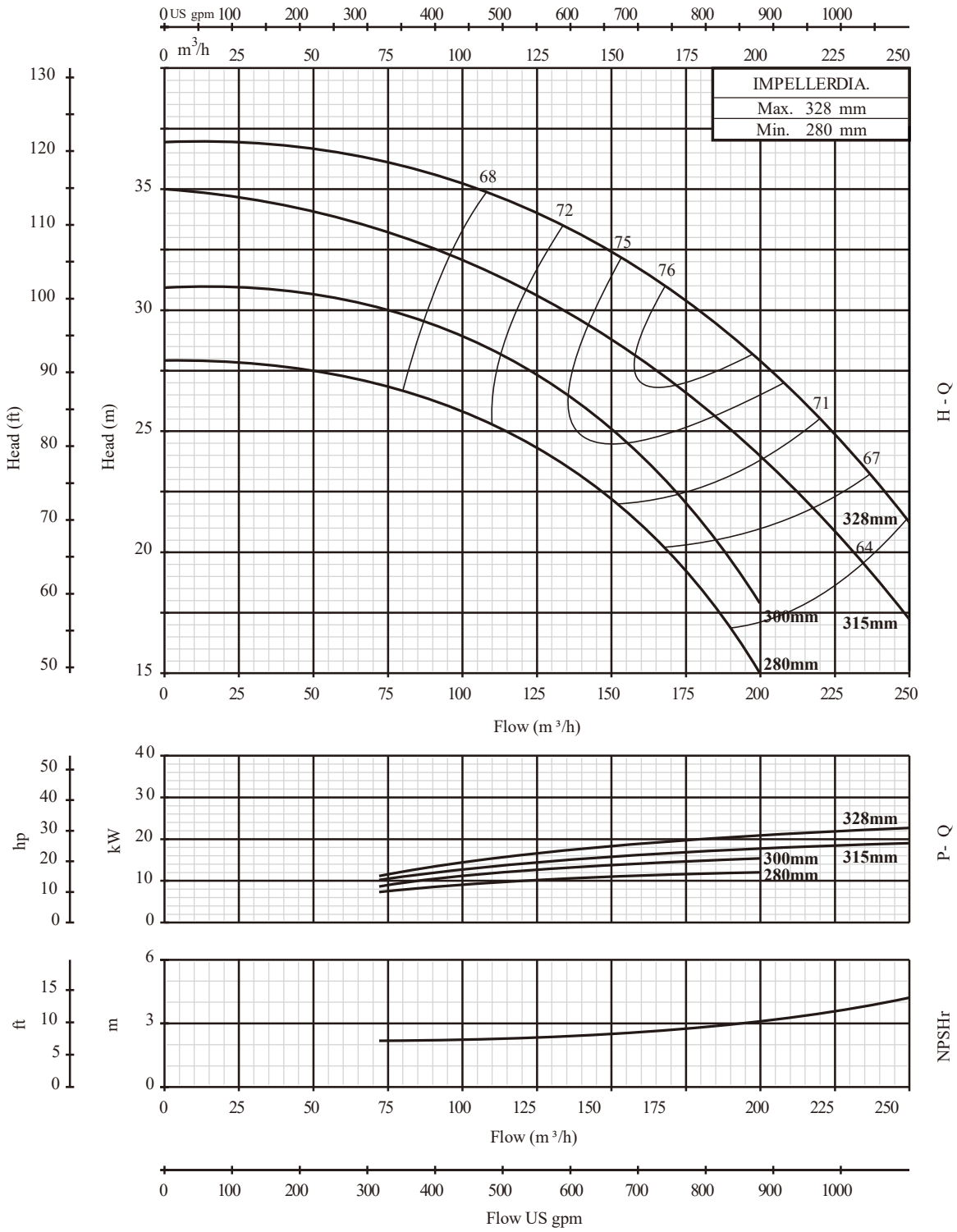
MODEL	DN	Implr Φ	Power		Q=DELIVERY											
					us gpm 0	198	220	264	317	370	396	423	476	617	661	881
					l/min 0	750	833	1000	1200	1400	1500	1600	1800	2333	2500	3333
					m³/h 0	45	50	60	72	84	90	96	108	140	150	200
	mm	mm	kw	hp	H=Head (m)											
CA4 100-250	125x100	220	5.5	7.5	15.9	15.8	15.7	15.5	14.9	14.4	14.1	13.4	12.5	9.2	7.9	-
CA4 100-250	125x100	240	7.5	10	19.5	19.5	19.4	19.2	18.8	18.3	18.1	17.6	16.9	14	12.7	-
CA4 100-250	125x100	257	11	15	24.3	24.3	24.2	24.1	23.7	23.3	23.1	22.7	22.1	19.7	18.6	11.4
CA4 100-250	125x100	270	15	20	27.8	27.8	27.7	27.6	27.2	26.8	26.6	26.2	25.6	23.2	22.1	14.9

MARO water pumps

100-315

1450rpm

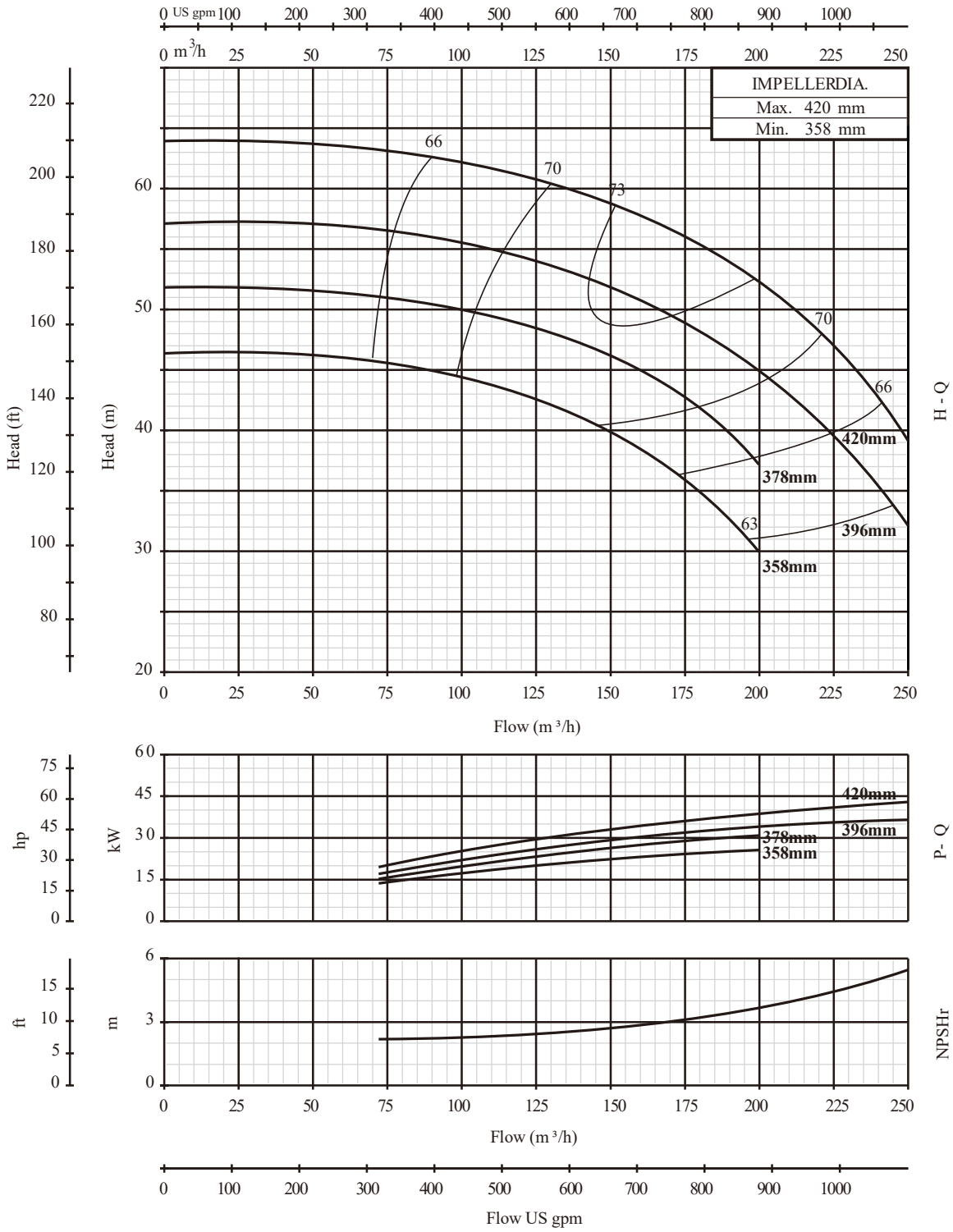
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY											
					us gpm 0	220	264	317	370	396	423	476	617	661	881	1101
					l/min 0	833	1000	1200	1400	1500	1600	1800	2333	2500	3333	4167
					m³/h 0	50	60	72	84	90	96	108	140	150	200	250
	mm	mm	kw	hp	H=Head (m)											
CA4 100-315	125x100	280	15	20	28	27.8	27.6	27.2	26.9	26.7	26.2	25.6	23.1	22.1	14.9	-
CA4 100-315	125x100	300	18.5	25	31	30.8	30.6	30.2	29.9	29.7	29.2	28.6	26.1	25.1	17.9	-
CA4 100-315	125x100	315	22	30	35	34.4	34.2	33.8	33.5	33.3	32.8	32.2	30	29	24	17.3
CA4 100-315	125x100	328	30	40	37	36.8	36.7	36.4	36.1	35.9	35.5	35.1	33.2	32.4	28	21.3

100-400

1450rpm



PERFORMANCE CURVE

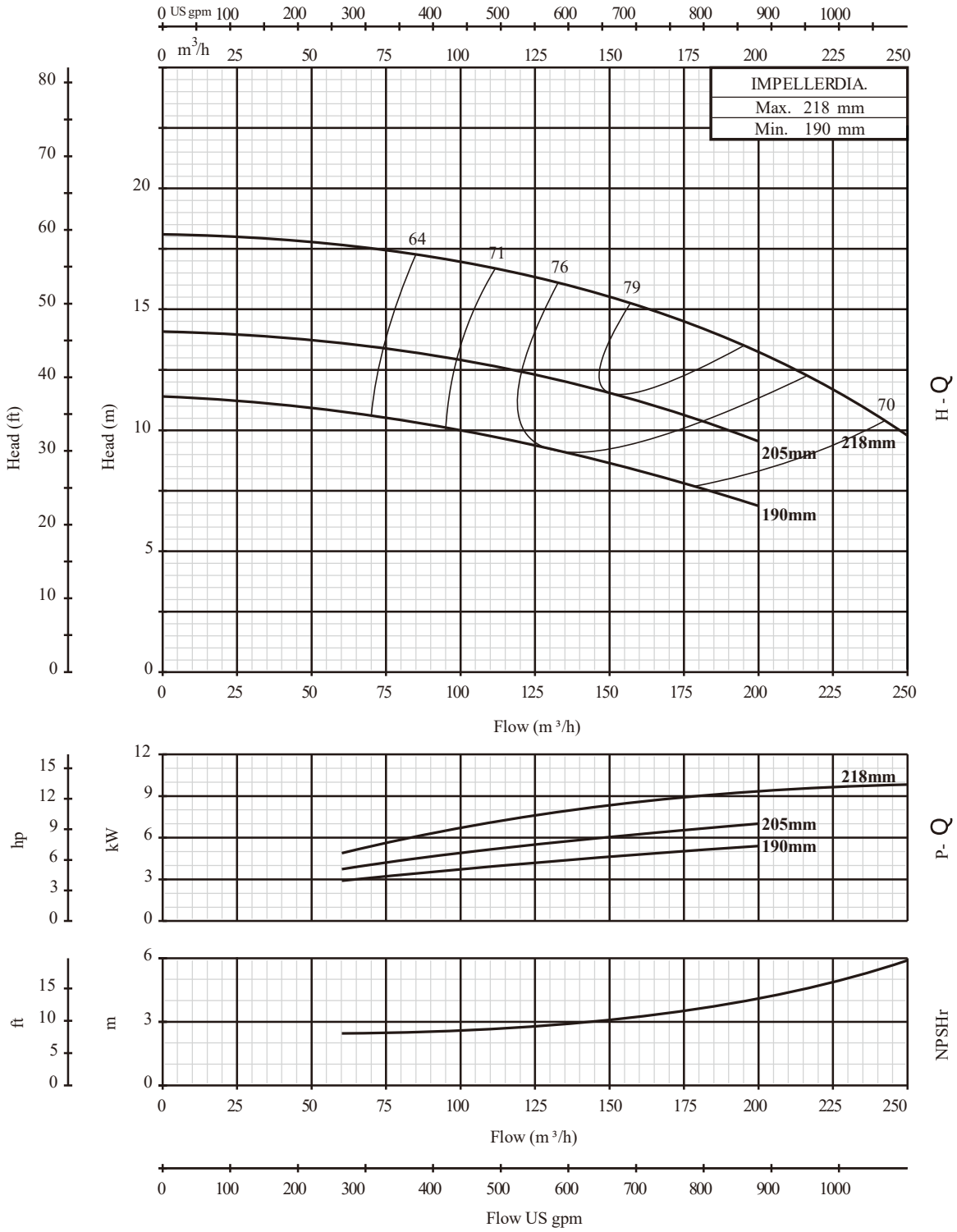
MODEL	DN	Implr Φ	Power		Q=DELIVERY										
					us gpm 0	264	317	370	396	423	476	617	661	881	1101
					l/min 0	1000	1200	1400	1500	1600	1800	2333	2500	3333	4167
					m³/h 0	60	72	84	90	96	108	140	150	200	250
	mm	mm	kw	hp	H=Head (m)										
CA4 100-400	125x100	358	30	40	46.4	46	46	46	46	45	44	42	40	29.6	-
CA4 100-400	125x100	378	37	50	51.8	51.3	51.2	51.1	51	50.5	49.5	47.5	46	37.3	-
CA4 100-400	125x100	396	45	60	57.1	56.7	56.4	56.1	56	56	55	53	52	45	32.1
CA4 100-400	125x100	420	55	75	64	63.7	63.4	63.1	63	63	62	60	59	52	39.1

MARO water pumps

125-200

1450rpm

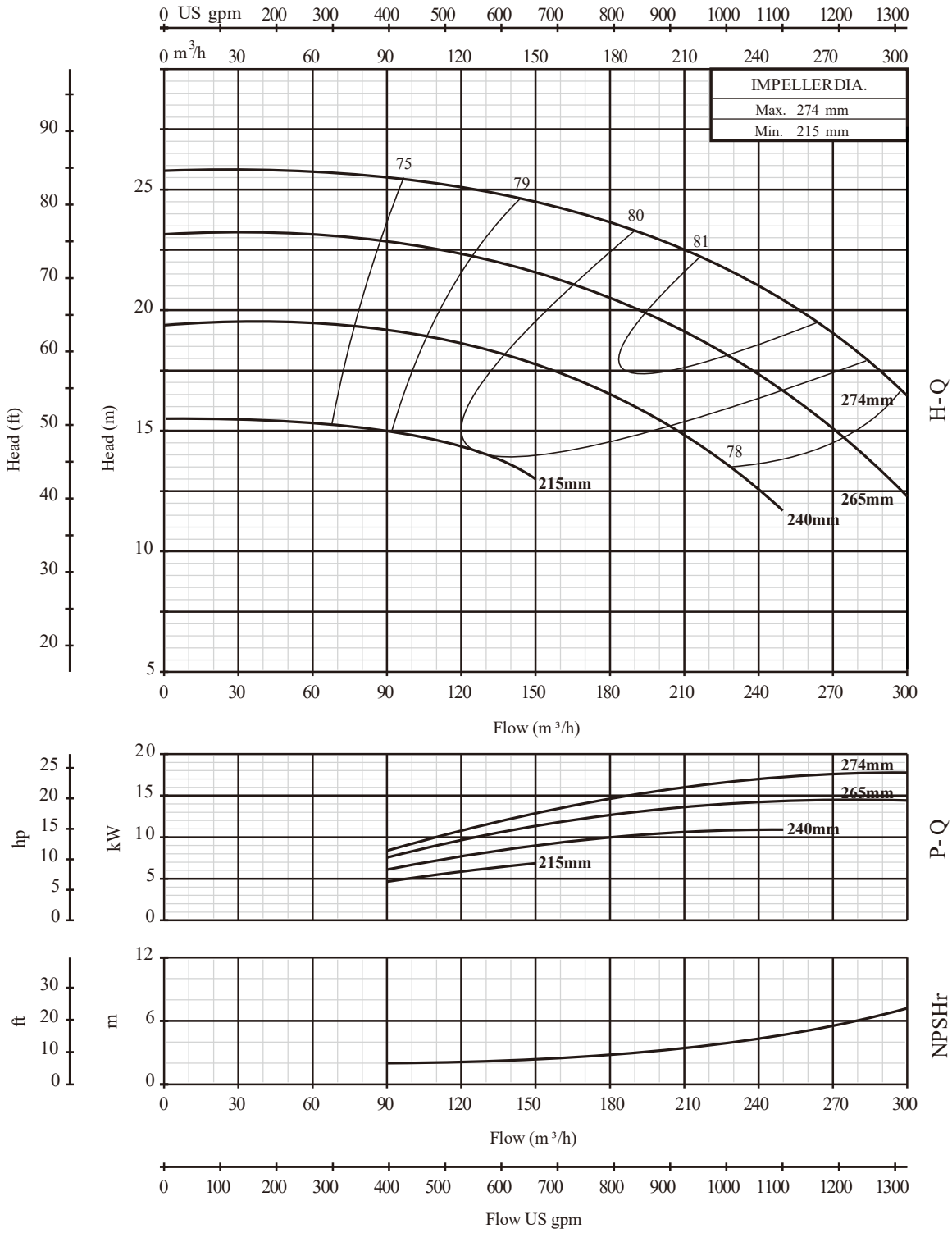
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY													
					us gpm	0	132	154	176	220	264	396	441	485	617	661	881	1101
					l/min	0	500	583	667	833	1000	1500	1667	1833	2333	2500	3333	4167
					m³/h	0	30	35	40	50	60	90	100	110	140	150	200	250
	mm	mm	kw	hp	H=Head (m)													
CA4 125-200	150x125	**190**	5.5	7.5	11.4	11.1	11.1	11	10.9	10.8	10.2	10	9.7	8.9	8.6	6.9	-	
CA4 125-200	150x125	**205**	7.5	10	14.1	13.9	13.8	13.8	13.7	13.6	13.1	12.9	12.7	11.9	11.6	9.6	-	
CA4 125-200	150x125	**218**	11	15	18.1	17.9	17.8	17.8	17.7	17.6	17.1	16.9	16.7	15.9	15.6	13.6	9.8	

125-250

1450rpm



PERFORMANCE CURVE

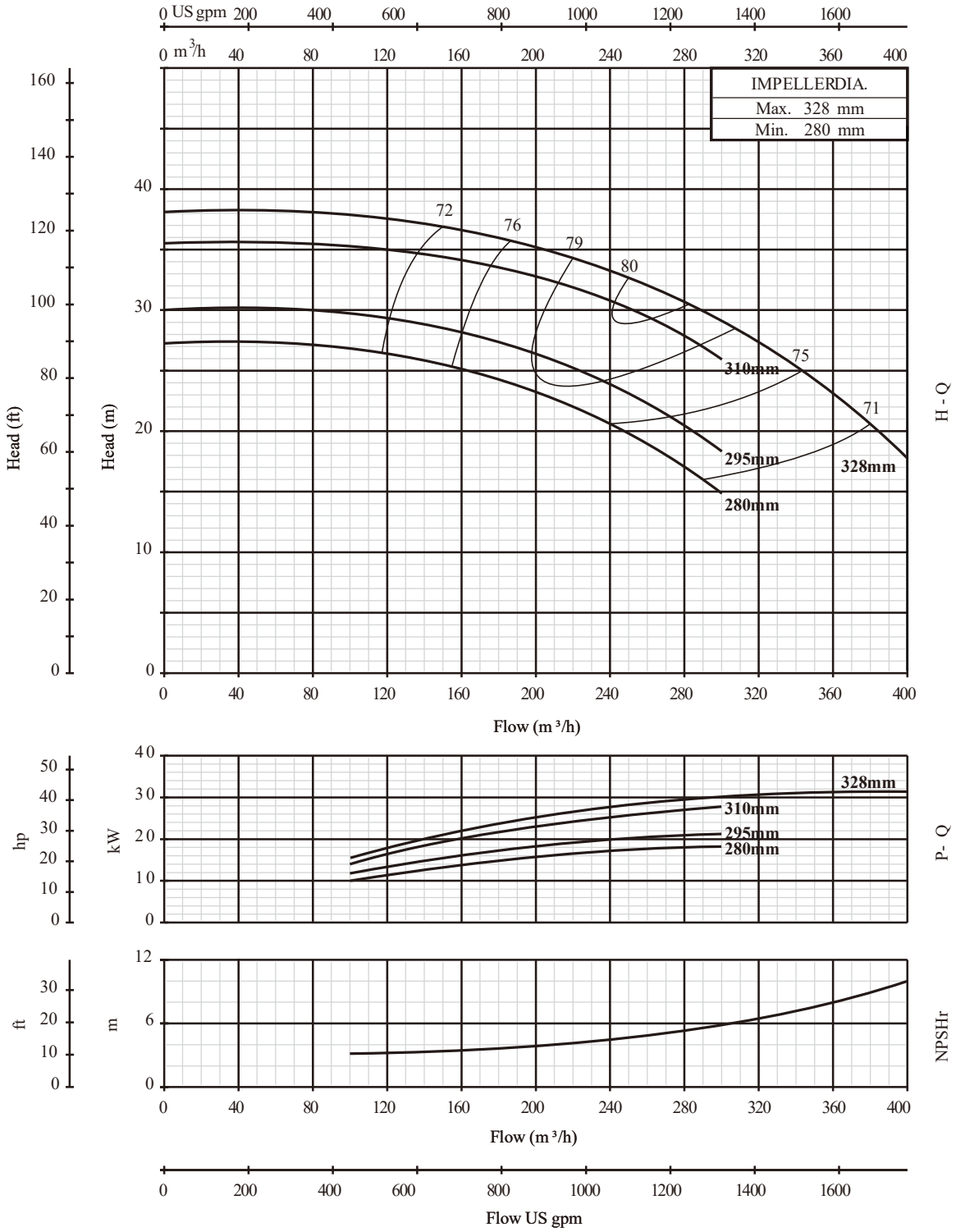
MODEL	DN	Implr Φ	Power		Q=DELIVERY									
					us gpm 0	264	396	441	485	617	661	881	1101	1322
					l/min 0	1000	1500	1667	1833	2333	2500	3333	4167	5000
	mm	mm	kw	hp	m³/h 0	60	90	100	110	140	150	200	250	300
					H=Head (m)									
CA4 125-250	150x125	215	7.5	10	15.4	15.3	15	14.8	14.6	13.6	13.1	-	-	-
CA4 125-250	150x125	240	11	15	19.4	19.3	19.1	19	18.9	18.1	17.8	15.3	11.7	-
CA4 125-250	150x125	265	15	20	23.2	23.3	23.1	23	22.9	22	22	19.8	16.5	12.3
CA4 125-250	150x125	274	18.5	25	25.6	25.5	25.5	25.4	25.3	24.9	24.7	23	20.3	16.5

MARO water pumps

125-315

1450rpm

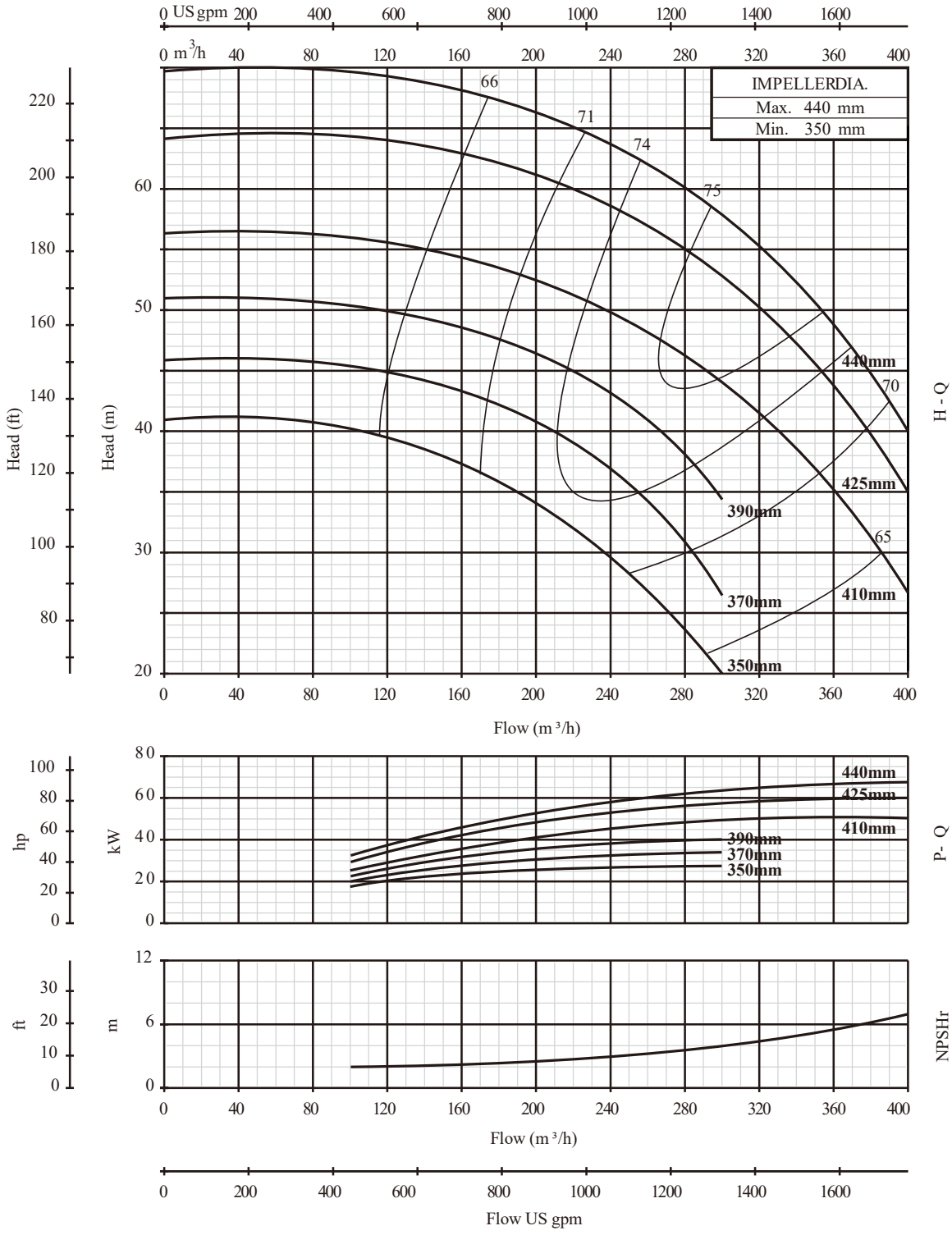
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY								
					us gpm 0	441	485	617	661	881	1101	1322	1762
					l/min 0	1667	1833	2333	2500	3333	4167	5000	6667
					m³/h 0	100	110	140	150	200	250	300	400
	mm	mm	kw	hp	H=Head (m)								
CA4 125-250	150x125	215	7.5	10	15.4	26.9	26.7	25.9	25.6	23.3	19.7	14.9	-
CA4 125-250	150x125	240	11	15	19.4	29.7	29.6	28.9	28.6	26.5	23.2	18.4	-
CA4 125-250	150x125	265	15	20	23.2	35.4	35.3	34.8	34.6	32.9	30.1	26.1	-
CA4 125-250	150x125	274	18.5	25	25.6	38	37.9	37.4	37.2	35.7	33.1	29.4	17.8

125-400

1450rpm



PERFORMANCE CURVE

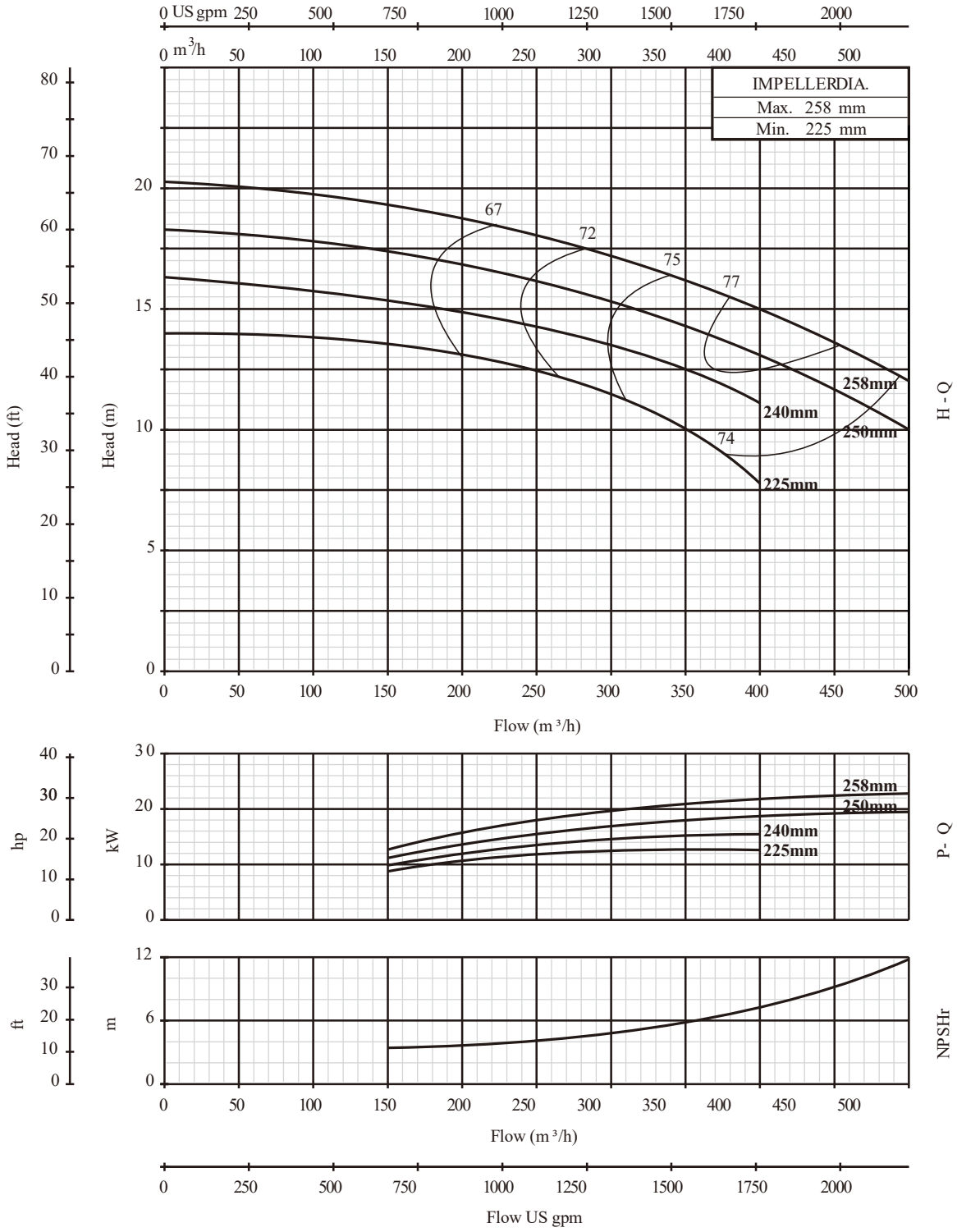
MODEL	DN	Implr Φ	Power		Q=DELIVERY									
					us gpm	0	441	485	617	661	881	1101	1322	1762	2203
					l/min	0	1667	1833	2333	2500	3333	4167	5000	6667	8333
	mm	mm	kw	hp	m³/h	0	100	110	140	150	200	250	300	400	500
					H=Head (m)										
CA4 125-400	150x125	350	30	40	41	41	40.5	40.3	39.2	38.6	34.4	27.5	18.3	-	
CA4 125-400	150x125	370	37	50	46.2	46	45.7	45.5	44.6	44.2	40.7	34.8	26.5	-	
CA4 125-400	150x125	390	45	60	51.4	51	50.9	50.8	50.1	49.8	47	42.2	34.8	-	
CA4 125-400	150x125	410	55	75	56.5	56.3	56.3	56.2	55.9	55.7	53.8	50.3	44.7	26.7	
CA4 125-400	150x125	425	75	100	64.5	64.3	64.3	64.2	63.9	63.7	61.8	58.3	52.7	34.7	
CA4 125-400	150x125	440	90	125	70	69.8	69.8	69.7	69.4	69.2	67.3	63.8	58.2	40.2	

MARO water pumps

150-200

1450rpm

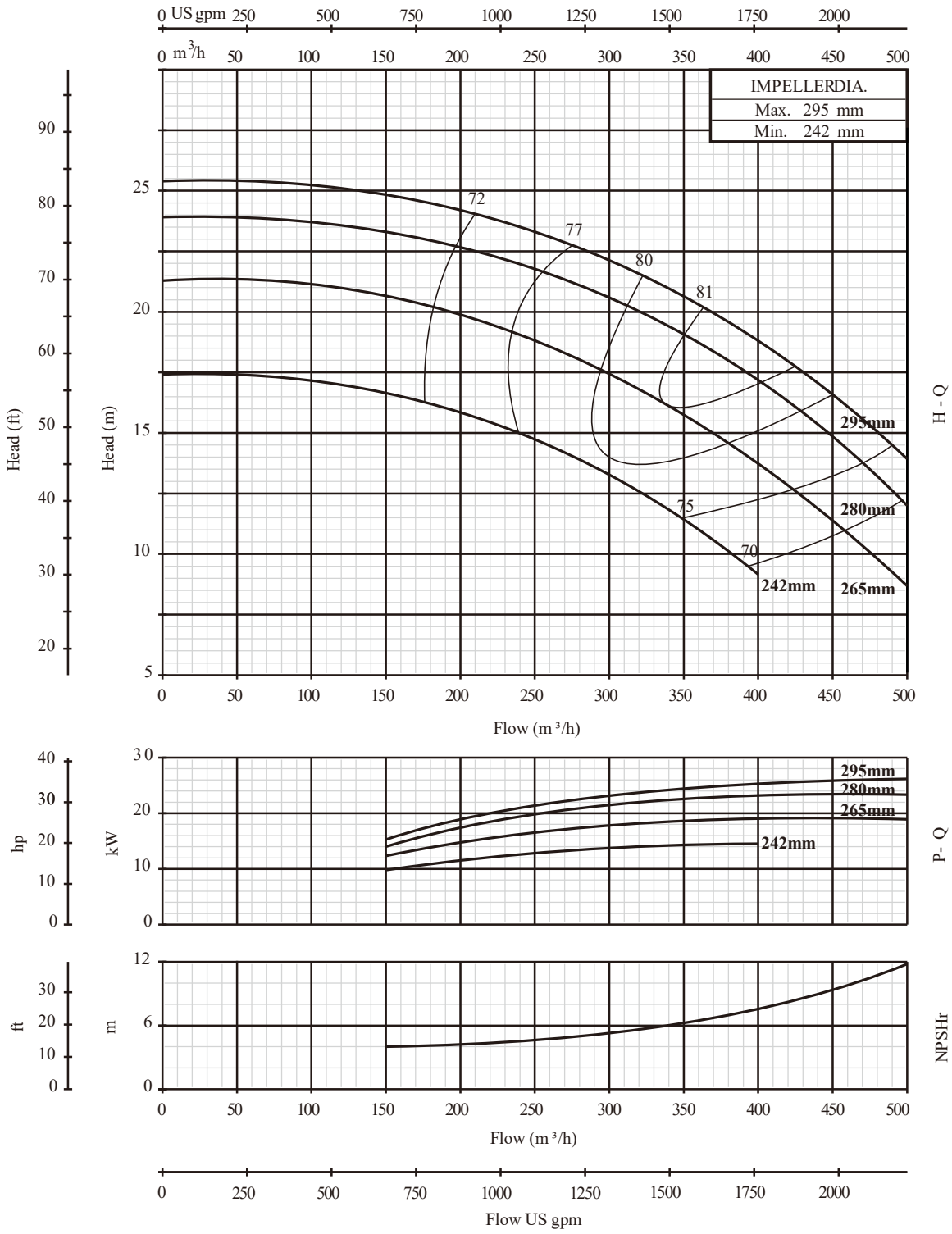
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY								
					us gpm 0	485	617	661	881	1101	1322	1762	2203
					l/min 0	1833	2333	2500	3333	4167	5000	6667	8333
	mm	mm	kw	hp	m³/h 0	110	140	150	200	250	300	400	500
					H=Head (m)								
CA4 150-200	200x150	225	11	15	14	13.5	13.4	13.3	13.1	12.9	11.7	7.8	-
CA4 150-200	200x150	240	15	20	16.3	15.5	15.3	15.2	14.8	14.3	13.5	11.1	-
CA4 150-200	200x150	250	18.5	25	18.3	17.5	17.3	17.2	16.8	16.3	15.5	13.1	10
CA4 150-200	200x150	258	22	30	20.3	19.5	19.3	19.2	18.8	18.3	17.5	15.1	12

150-250

1450rpm



MODEL	DN	Implr Φ	Power		Q=DELIVERY						
					us gpm 0	661	881	1101	1322	1762	2203
					l/min 0	2500	3333	4167	5000	6667	8333
	mm	mm	kw	hp	m³/h 0	150	200	250	300	400	500
					H=Head (m)						
CA4 150-250	200x150	242	15	20	17.5	16.8	15.9	14.7	13.2	9.2	-
CA4 150-250	200x150	265	18.5	25	21.3	20.8	20	18.9	17.5	13.8	8.7
CA4 150-250	200x150	280	22	30	24	23.6	23	22	20.8	17.1	12
CA4 150-250	200x150	295	30	40	25.5	25	24.5	23.5	22	18.8	13.8

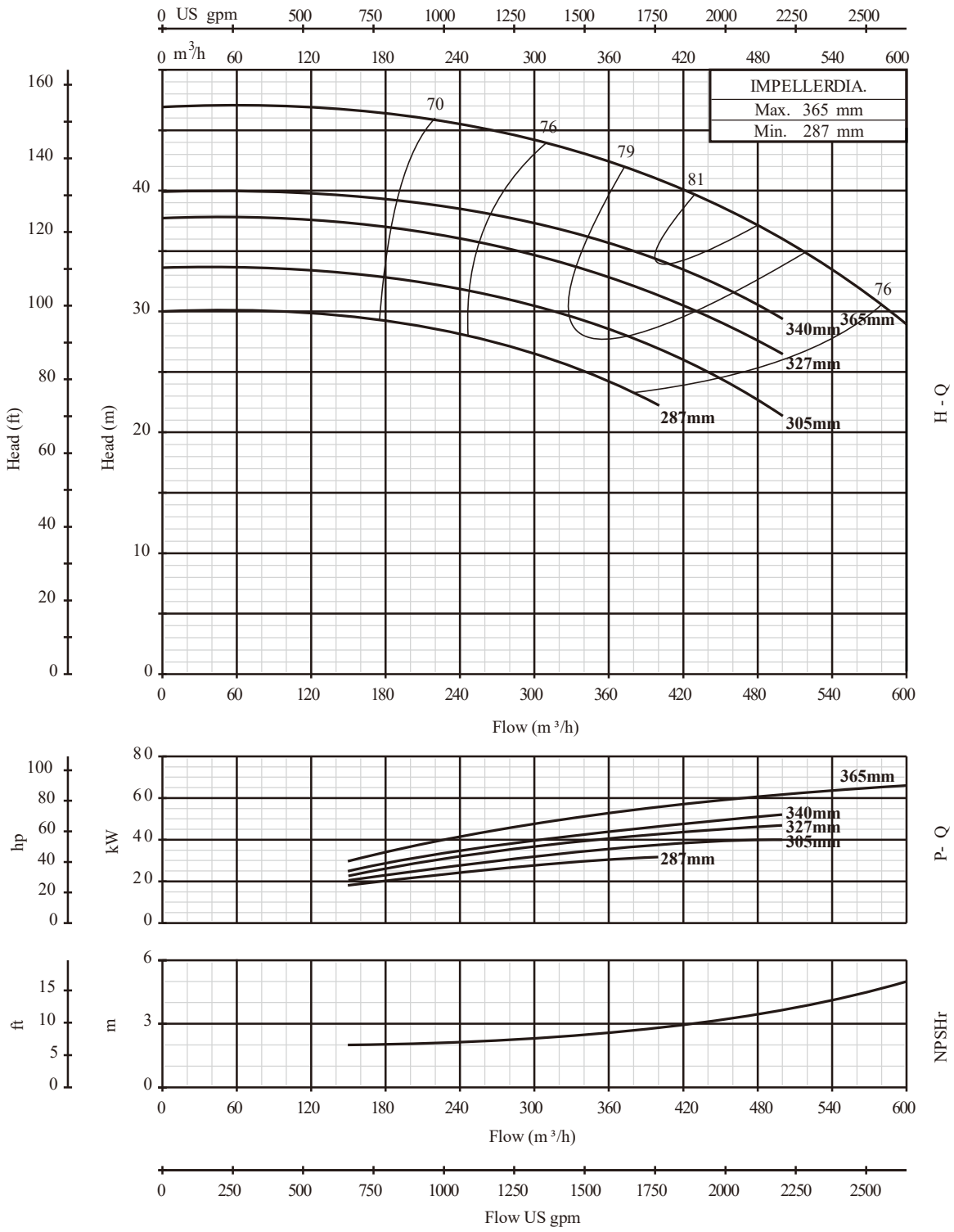
PERFORMANCE CURVE

MARO water pumps

150-315

1450rpm

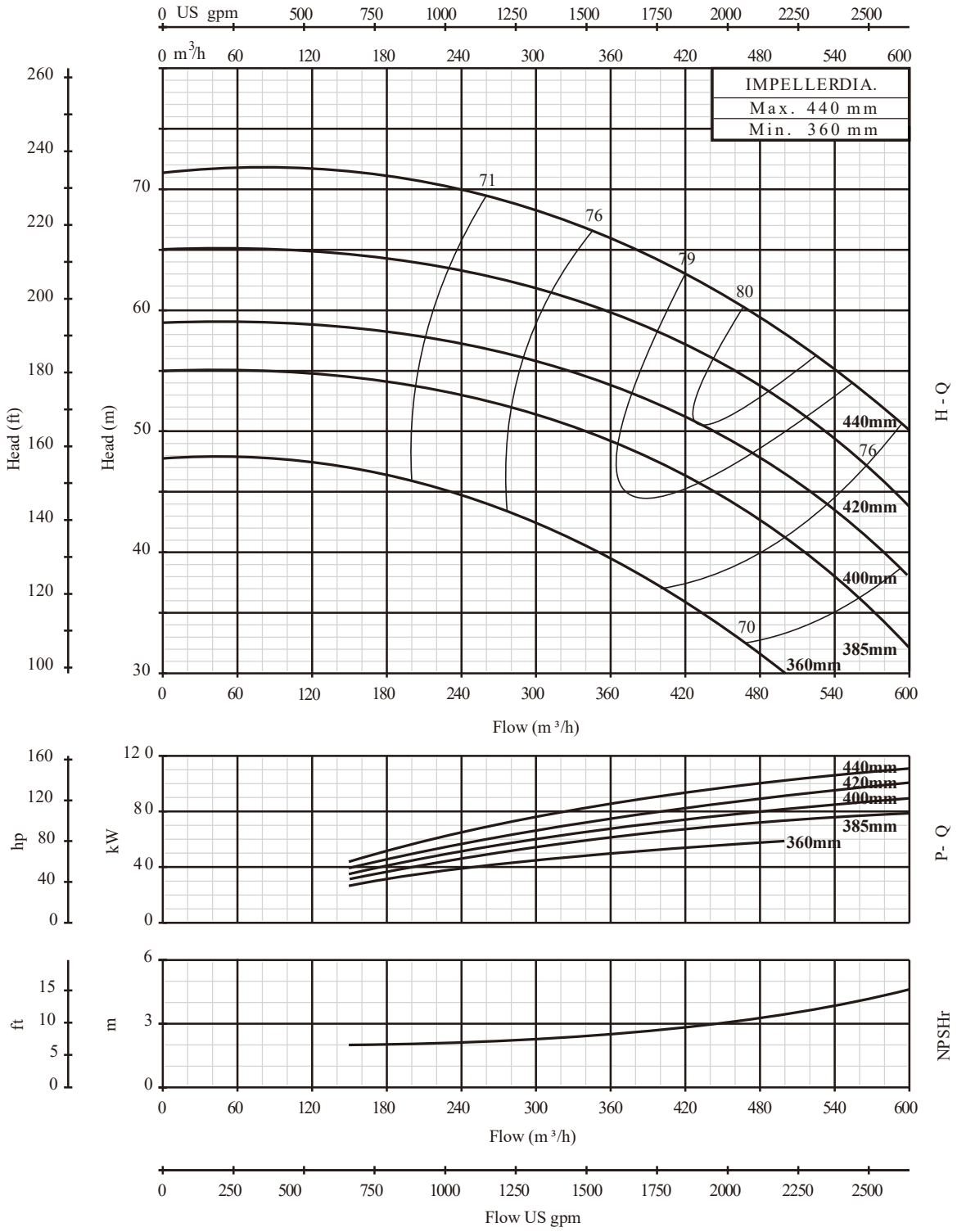
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY							
					us gpm 0	661	881	1101	1322	1762	2203	2643
					l/min 0	2500	3333	4167	5000	6667	8333	10000
	mm	mm	kw	hp	m³/h 0	150	200	250	300	400	500	600
					H=Head (m)							
CA4 150-315	200x150	287	30	40	30.2	29.7	29	27.9	26.4	22.3	-	-
CA4 150-315	200x150	305	37	50	33.6	33.5	32.7	31.7	30.4	26.7	21.4	-
CA4 150-315	200x150	327	45	60	37.7	37.6	36.9	35.9	34.7	31.3	26.5	-
CA4 150-315	200x150	340	55	75	40	40	39.3	38.4	37.2	33.9	29.4	-
CA4 150-315	200x150	365	75	100	47	47	46.3	45.4	44.2	40.9	36.4	29

150-400

1450rpm



MODEL	DN	Implr Φ	Power		Q=DELIVERY								
					us gpm 0	617	661	881	1101	1322	1762	2203	2643
					l/min 0	2333	2500	3333	4167	5000	6667	8333	10000
	mm	mm	kw	hp	m³/h 0	140	150	200	250	300	400	500	600
					H=Head (m)								
CA4 150-400	200x150	360	55	75	48.2	47.7	48	46	45	42	36.8	29.2	-
CA4 150-400	200x150	385	75	100	55.4	55	55	54	53	51	47	41	32.2
CA4 150-400	200x150	400	90	125	59.5	59	59	58	57	56	52	46	37.7
CA4 150-400	200x150	420	110	150	65.5	65	65	64	63	62	58	52	43.7
CA4 150-400	200x150	440	132	180	72	71.5	71.5	70.5	69.5	68.5	64.5	58.5	50.2

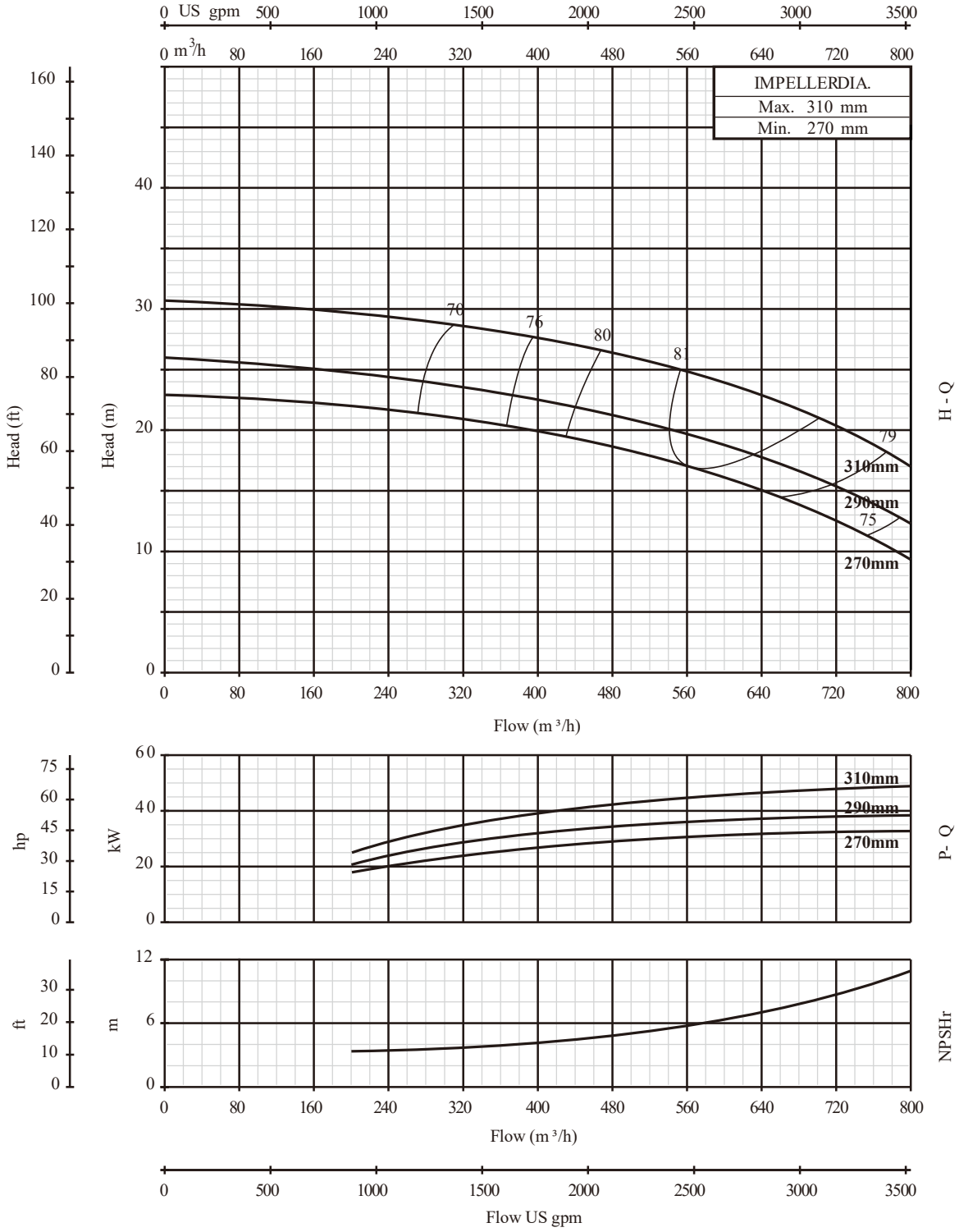
PERFORMANCE CURVE

MARO water pumps

200-250

1450rpm

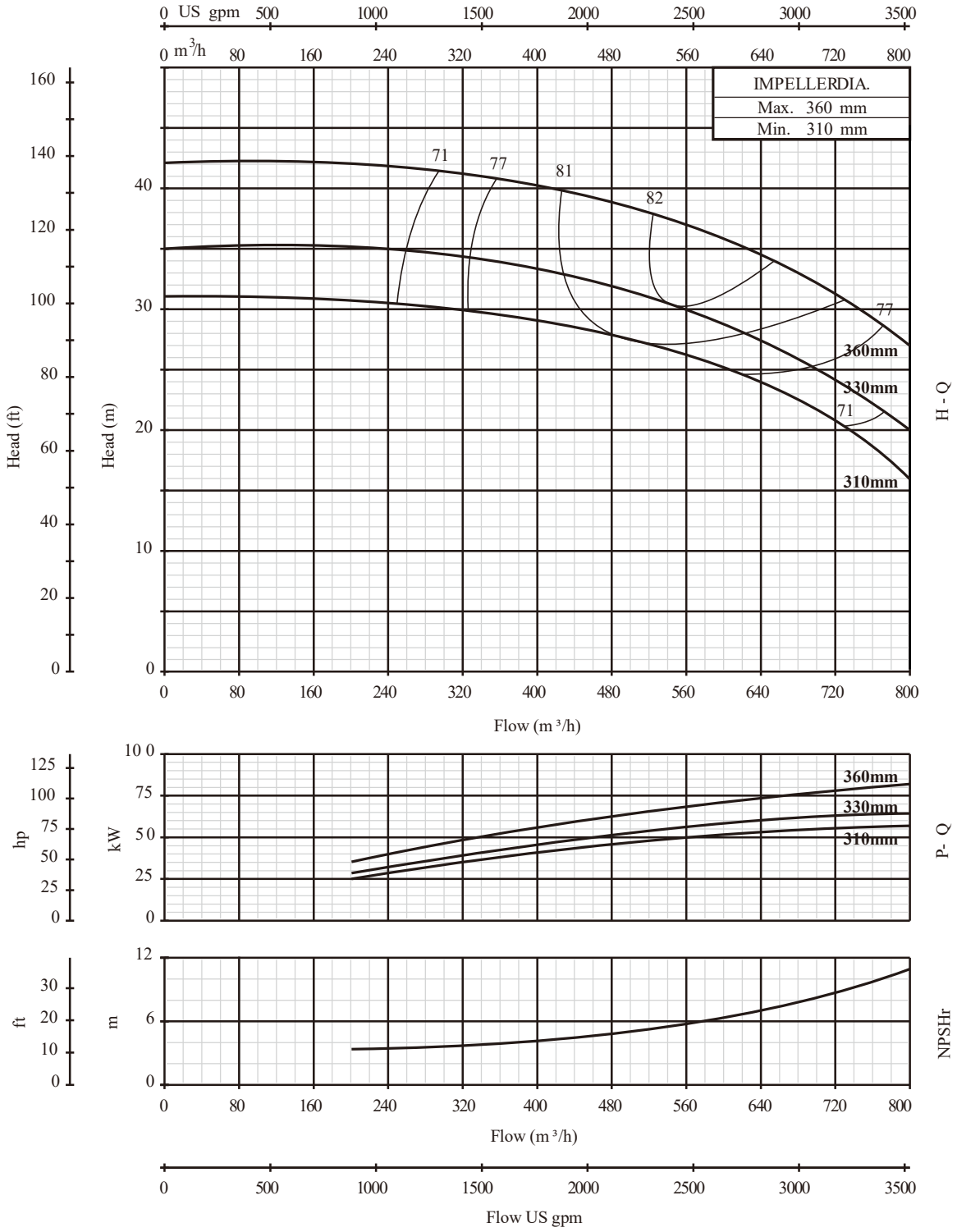
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY							
					us gpm 0	881	1322	1762	2203	2643	3084	3524
					l/min 0	3333	5000	6667	8333	10000	11667	13333
	mm	mm	kw	hp	m³/h 0	200	300	400	500	600	700	800
					H=Head (m)							
CA4 200-250	250x200	270	37	50	23	22	21	19.8	18.3	16.1	12.8	9.3
CA4 200-250	250x200	290	45	60	26	25	24	22.8	21.3	19.1	15.8	12.3
CA4 200-250	250x200	310	55	75	30.7	29.7	28.7	27.5	26	23.8	20.5	17

200-315

1450rpm



MODEL	DN	Implr Φ	Power		Q=DELIVERY							
					us gpm 0	881	1322	1762	2203	2643	3084	3524
					l/min 0	3333	5000	6667	8333	10000	11667	13333
	mm	mm	kw	hp	m³/h 0	200	300	400	500	600	700	800
					H=Head (m)							
CA4 200-315	250x200	310	55	75	31.1	31	30	29.3	27.5	25	21.3	16
CA4 200-315	250x200	330	75	100	35.1	35	34	33.3	31.5	29	25.3	20
CA4 200-315	250x200	360	90	125	42.1	42	41	40.3	38.5	36	32.3	27

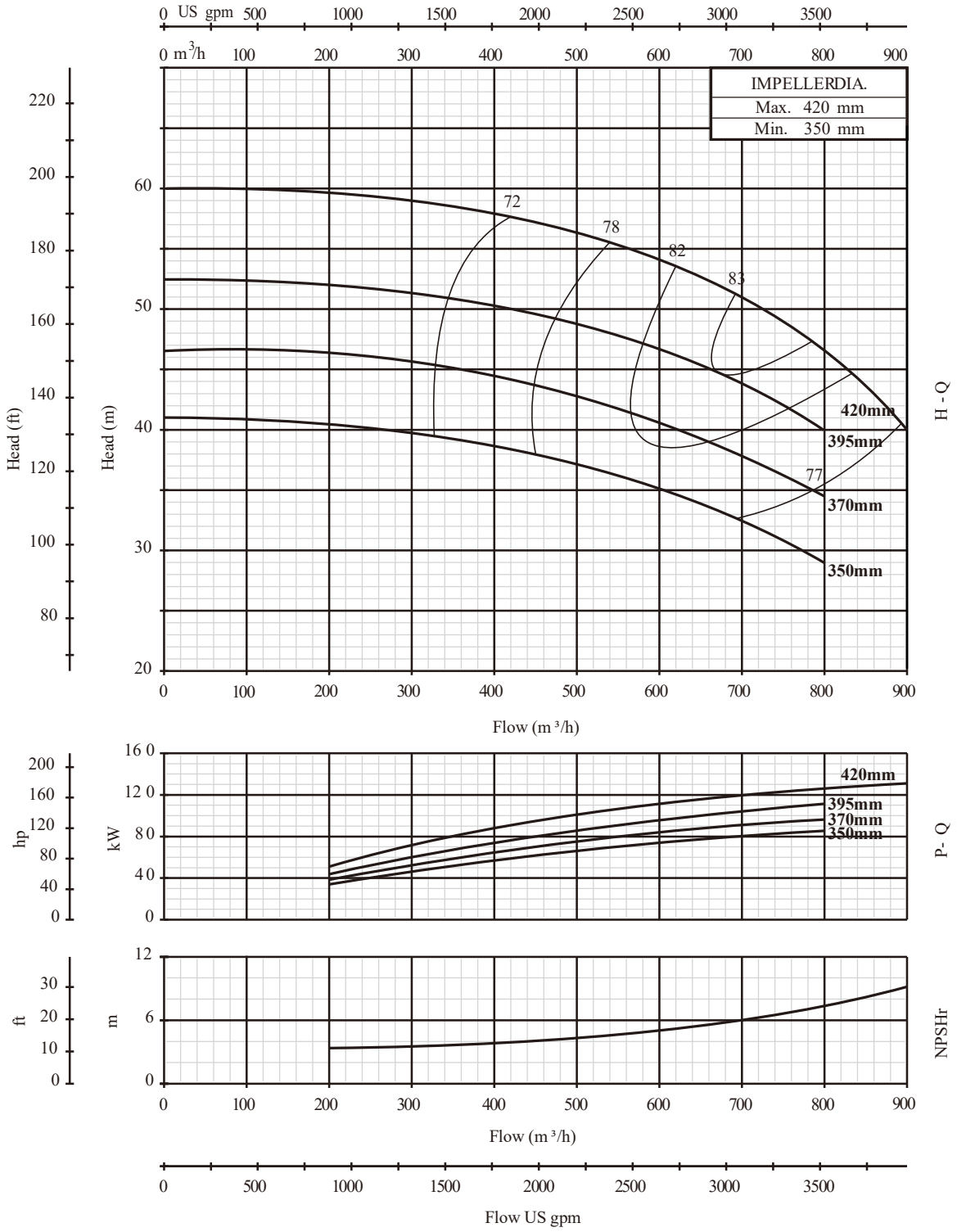
PERFORMANCE CURVE

MARO water pumps

200-400

1450rpm

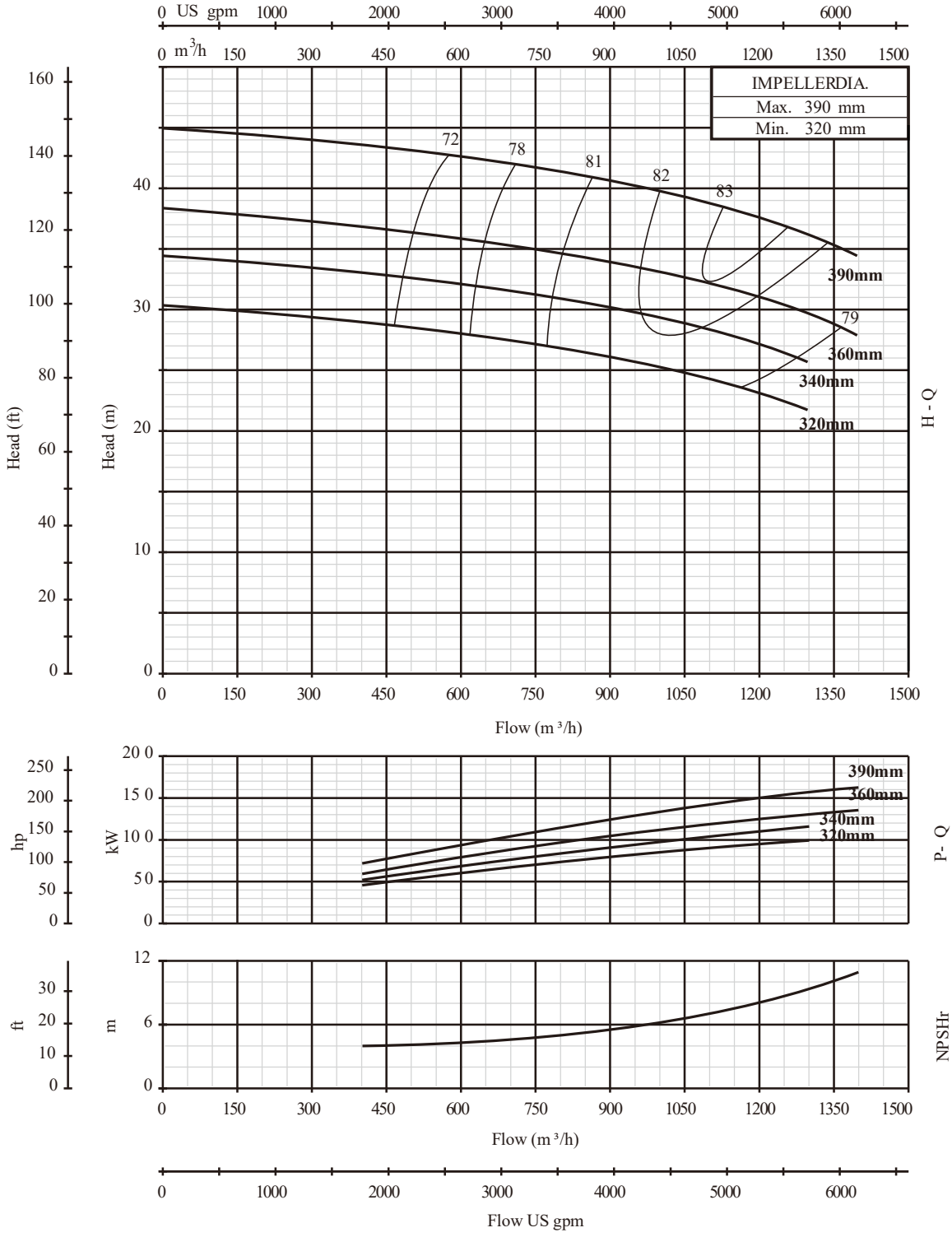
PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY								
					us gpm 0	881	1322	1762	2203	2643	3084	3524	3965
					l/min 0	3333	5000	6667	8333	10000	11667	13333	15000
	mm	mm	kw	hp	m³/h 0	200	300	400	500	600	700	800	900
					H=Head (m)								
CA4 200-400	250x200	350	75	100	41	40.9	40.4	38.9	37.4	34.9	32.9	28.9	-
CA4 200-400	250x200	370	90	125	46.5	46.4	45.9	44.4	42.9	40.4	38.4	34.4	-
CA4 200-400	250x200	395	110	150	52.4	52.3	51.8	50.3	48.8	46.3	44.3	40.3	-
CA4 200-400	250x200	420	132	180	60.1	60	59.5	58	56.5	54	52	48	40

250-315

1450rpm



PERFORMANCE CURVE

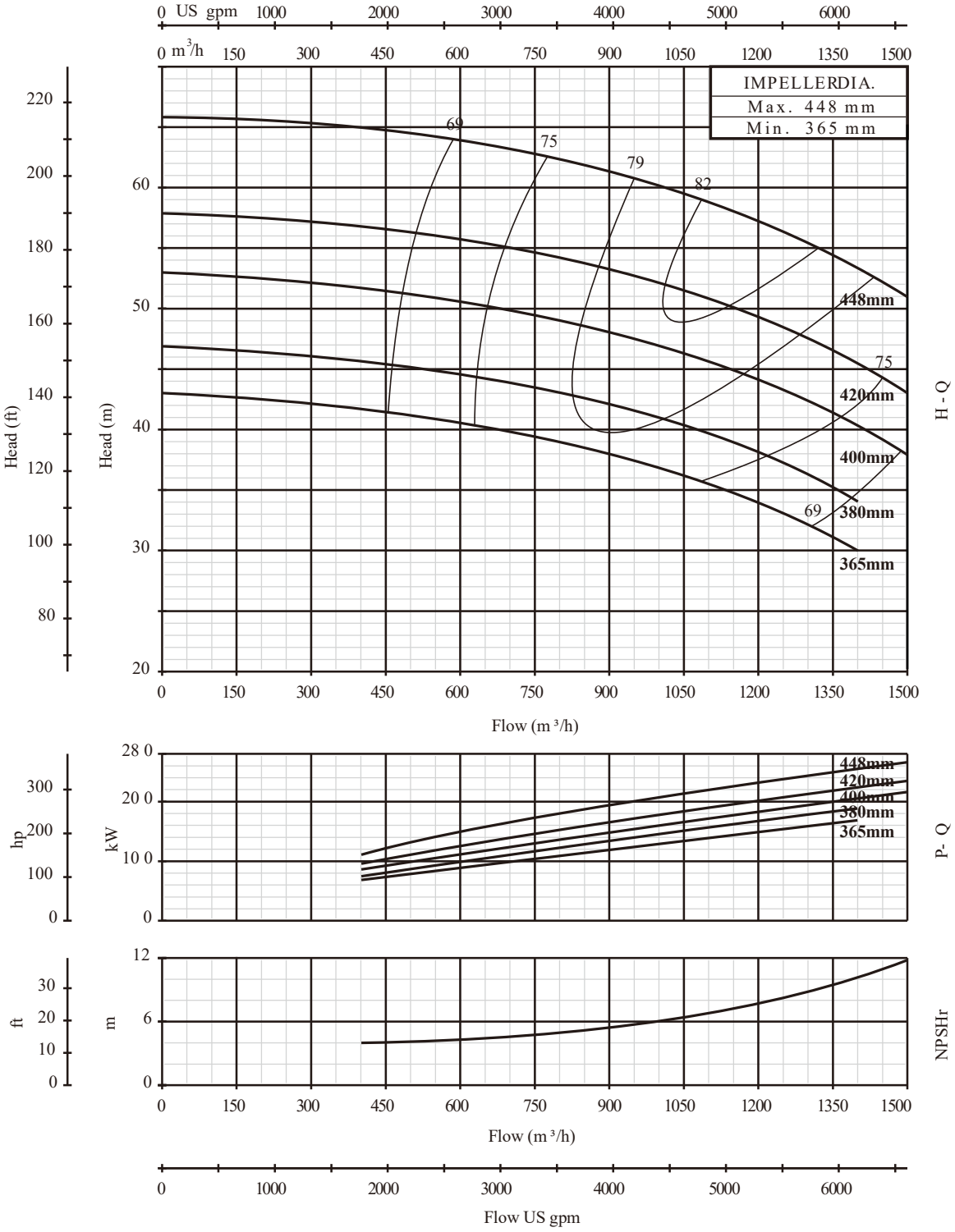
MODEL	DN	Implr Φ	Power		Q=DELIVERY											
					us gpm 0	1762	2203	2643	3084	3524	3965	4405	4846	5286	5727	6167
					l/min 0	6667	8333	10000	11667	13333	15000	16667	18333	20000	21667	23333
					m³/h 0	400	500	600	700	800	900	1000	1100	1200	1300	1400
	mm	mm	kw	hp	H=Head (m)											
CA4 250-315	300x250	**320**	90	125	30.5	29	28.3	28	27.6	27	26.4	25.8	24.8	23	21.8	-
CA4 250-315	300x250	**340**	110	150	34.5	33	32.3	32	31.6	31	30.4	29.8	28.8	27	25.8	-
CA4 250-315	300x250	**360**	132	180	38.5	37	36.3	36	35.6	35	34.4	33.8	32.8	31	29.8	28
CA4 250-315	300x250	**390**	160	220	45	43.5	42.8	42.5	42.1	41.5	40.9	40.3	39.3	37.5	36.3	34.5

MARO water pumps

250-400

1450rpm

PERFORMANCE CURVE



MODEL	DN	Implr Φ	Power		Q=DELIVERY												
					us gpm 0	1762	2203	2643	3084	3524	3965	4405	4846	5286	5727	6167	6608
					l/min 0	6667	8333	10000	11667	13333	15000	16667	18333	20000	21667	23333	25000
					m³/h 0	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
	mm	mm	kw	hp	H=Head (m)												
CA4 250-400	300x250	365	160	220	43	42	41.2	40.8	40	39	38	37	36	34	32.5	30	-
CA4 250-400	300x250	380	185	250	47	46	45.2	44.8	44	43	42	41	40	38	36.5	34	-
CA4 250-400	300x250	400	200	270	53	52	51.2	50.8	50	49	48	47	46	44	42.5	40	38
CA4 250-400	300x250	420	220	300	58	57	56.2	55.8	55	54	53	52	51	49	47.5	45	43
CA4 250-400	300x250	448	250	340	66	65	64.2	63.8	63	62	61	60	59	57	55.5	53	51



VM - CVE

DESCRIPTION

- The jockey pump is designed to maintain the pressure on the fire protection system between preset limits when the system is not flowing water.
- Rated capacity not less than any normal leakage rate.
- Discharge pressure sufficient to maintain the desired fire protection system pressure.
- High efficient motor, with protection IP55 class F

APPLICATIONS

The high efficiency and noiseless operation which allows these pumps to be used in conditions households,irrigation,car washes,fire protection systems,air conditioning and lifting installations water pressure in the network.

Clean Civil Industry Fire

TECHNICAL SHEET

Model	VM/CVE	
Capacity	0-18	m^3/h
Head	0-150	m
DN	34	mm
Speed	2900	rpm
T max	70	°C
Power	0.37 - 2.2	kW
Voltage	220/380	V
HZ	50	
Class	Class F	
IP	IP 55	
Duty	S1 continuous	
Casing	Cast iron	
Impeller	Plastic (VM) AISI304 (CVE)	
Shaft	AISI304	
Shaft seal	Mechanical Seal	
Bearing	Grease lubrication rolling bearing	

USING LIMITS

- Liquid temperature between -10°C and +70°C
- Ambient temperature between -10°C and +40°C
- Max. working pressure 15 bar
- Continuous service S1

VM/CVE

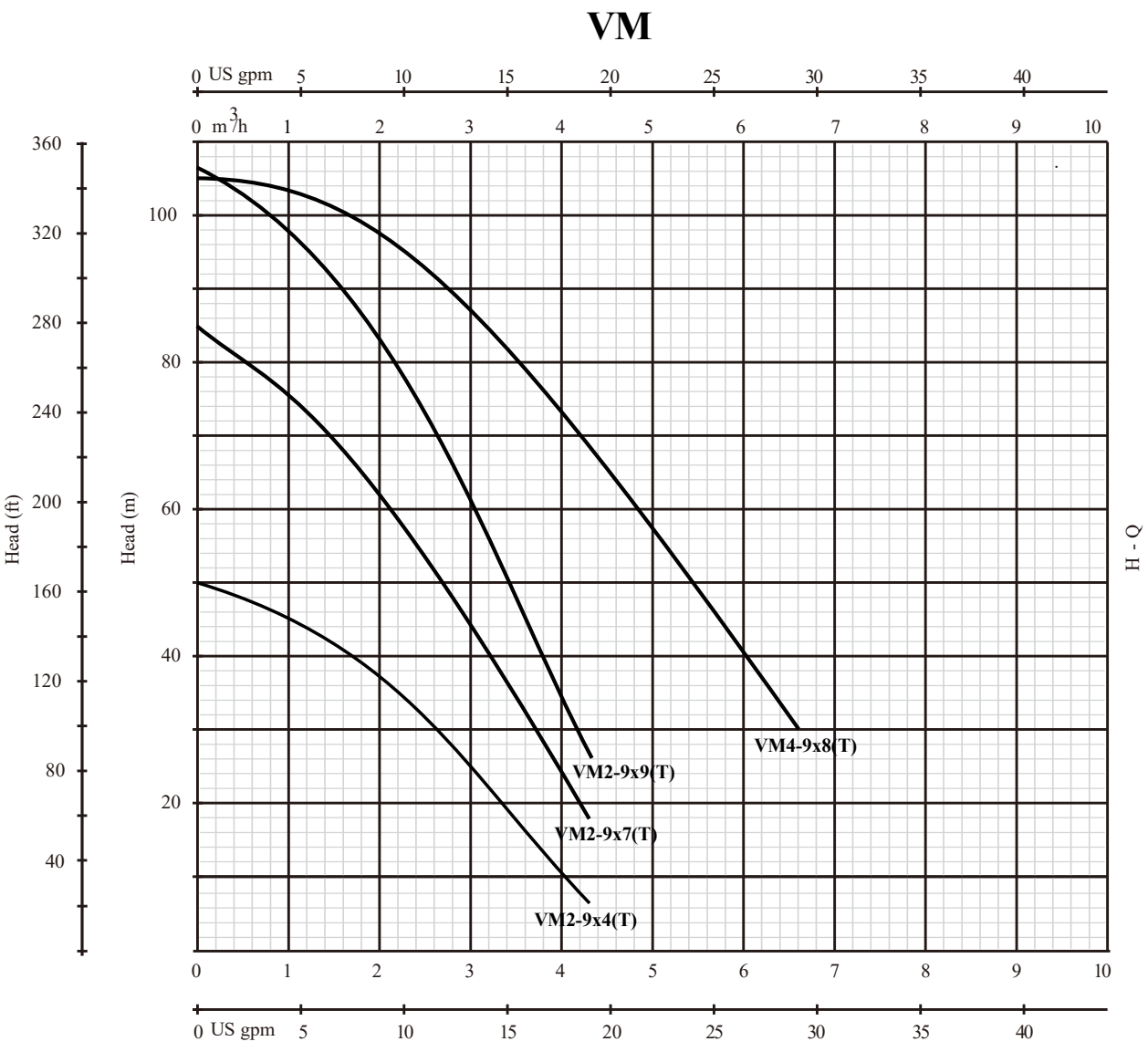
Vertical multistage centrifugal pump
n ≈ 2900 rpm

PERFORMANCE CURVE

TECHNICAL DATA

50 Hz **n=2900 1/min**

MODEL	DN	Power		Q=DELIVERY								
				us gpm	0	5.3	10.6	15.8	19	26.4	29	37.0	42.0
				l/min	0	20	40	60	80	100	120	140	160
				m³/h	0	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6
	mm	kw	hp	H=Head (m)									
VM2-9x4(T)	25x25	0.75	1	50	44	33	18	7.5	-	-	-	-
VM2-9x7(T)	25x25	1.1	1.5	85	73	55.5	32.5	18	-	-	-	-
VM2-9x9(T)	25x25	1.5	2	106	95.4	74.2	45	26	-	-	-	-
VM4-9x8(T)	25x25	2.2	3	105	102.3	94	80	71.8	68	30	-	-

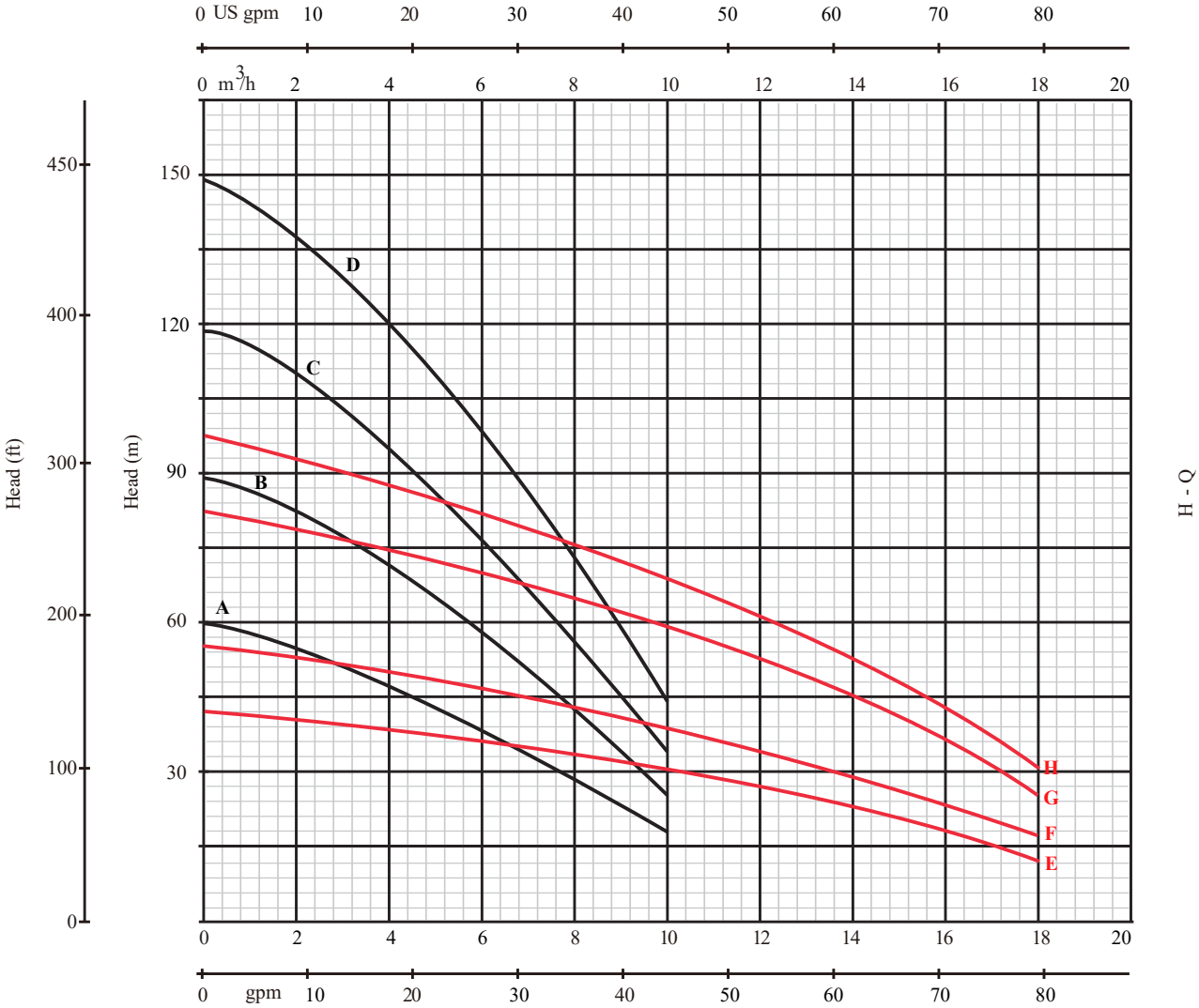


TECHNICAL DATA

50 Hz n=2900 1/min

MODEL	DN	Power		Q=DELIVERY								
				us gpm	0	5.3	18.5	31.7	44.9	58	71.3	79.2	
				l/min	0	20	70	120	167	220	270	300	
				m³/h	0	1.2	4.2	7.2	10	13.2	16.2	18	
	mm	kw	hp	H=Head (m)									Line
CVE125-4(T)	40x32	1.5	2.0	60	57.3	46	32.4	18	-	-	-		A
CVE125-6(T)	40x32	2.2	3.0	89	85.5	70	49	25.5	-	-	-		B
CVE125-8T	40x32	3.0	4.0	118.5	114.6	93	63.6	34	-	-	-		C
CVE125-10T	40x32	4.0	5.5	148.8	143.4	118	83.7	44.5	-	-	-		D
CVE205-3(T)	40x32	1.5	2.0	42	41.2	38.7	34.5	30.3	24	17.4	12.6		E
CVE205-4(T)	40x32	2.2	3.0	54.6	54	50	44.7	39	30.6	22.5	17		F
CVE205-6T	40x32	3.0	4.0	82	80.4	74.7	67	59	48.3	35.4	25.5		G
CVE205-7T	40x32	4.0	5.5	97	95.1	87	77.8	68.8	56.4	41	30.6		H

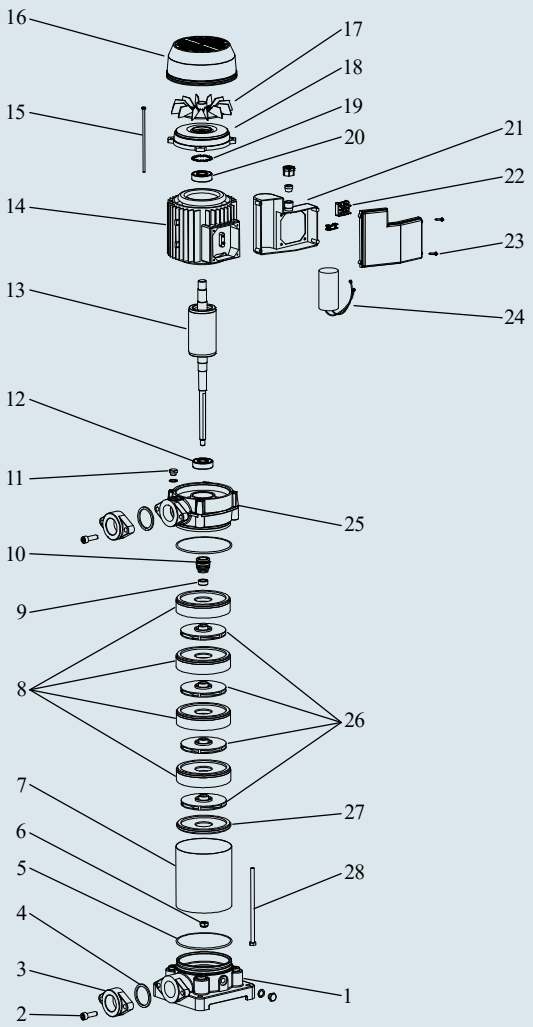
CVE



PERFORMANCE CURVE

VM - CVE ELEMENTS DESCRIPTION

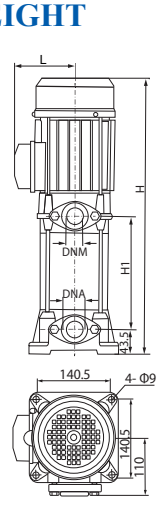
ELEMENTS



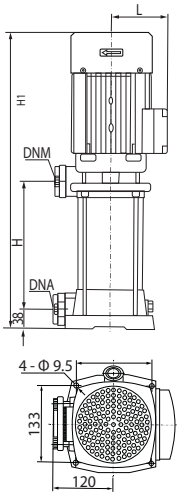
N	DESCRIPTION
1	Sucking body
2	Screw
3	Flange
4	Gasket
5	O'Ring
6	Self-loking nut
7	Inox casing
8	Diffusers set
9	Spacer
10	Mechanical seal
11	1/4" GAS Screw plug
12	Bearing
13	Motor shaft
14	Motor case + stator
15	Tie rod
16	Fan Cover
17	Cooling fan
18	Shield
19	Ring
20	Bearing
21	Capacitor box
22	Terminal box
23	Self-threading screw
24	Capacitor (single phase only)
25	Pump body
26	mpeller
27	Difusers cover
28	Tie rod

VM - CVE DIMENSIONS AND WEIGHT

MODEL	G.W (kg)	Packing size (mm)
VM2-9x4(T)	17	485x220x300
VM2-9x7(T)	22	595x220x300
VM2-9x9(T)	24	640x220x300
VM4-9x8(T)	26	615x220x300
CVE125-4(T)	27	610x310x360
CVE125-6(T)	31.9	610x310x360
CVE125-8T	38.2	790x340x380
CVE125-10T	43	790x340x380
CVE205-3(T)	27.6	610x310x360
CVE205-4(T)	30	610x310x360
CVE205-6T	38	790x340x380
CVE205-7T	42.7	790x340x280



VM



CVE

MODEL	L	H	H1
VM2-9x4(T)	132	430	168
VM2-9x7(T)	140	538	249
VM2-9x9(T)	140	586	297
VM4-9x8(T)	140	562	273
CVE125-4(T)	116	502	190
CVE125-6(T)	116	555	239
CVE125-8T	142	668	288
CVE125-10T	142	718	337
CVE205-3(T)	116	503	171
CVE205-4(T)	116	543	250
CVE205-6T	142	710	329
CVE205-7T	142	750	369