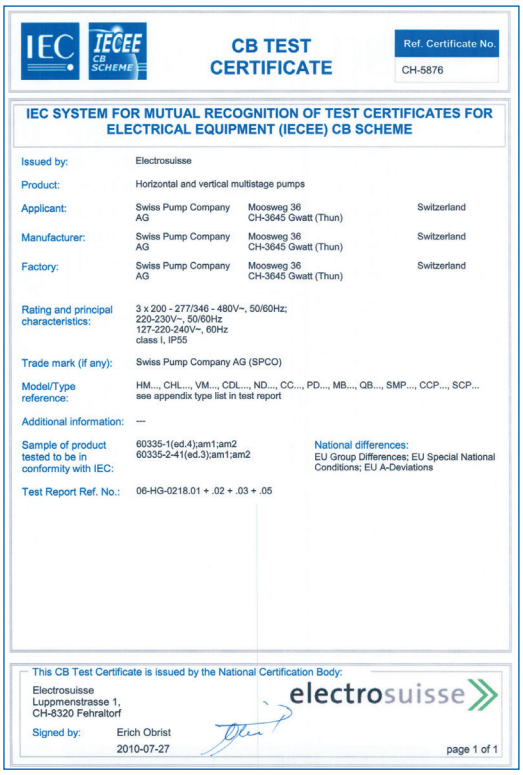
SPCO®

makes life easier

CC

Horizontal Closed Coupled pumps, 60Hz

Approvals



IEC IECEE CB SCHEME

CB TEST CERTIFICATE

Ref. Certificate No.
CH-5876

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

Issued by:	Electrosuisse		
Product:	Horizontal and vertical multistage pumps		
Applicant:	Swiss Pump Company AG	Moosweg 36 CH-3645 Gwatt (Thun)	Switzerland
Manufacturer:	Swiss Pump Company AG	Moosweg 36 CH-3645 Gwatt (Thun)	Switzerland
Factory:	Swiss Pump Company AG	Moosweg 36 CH-3645 Gwatt (Thun)	Switzerland
Rating and principal characteristics:	3 x 200 - 277/346 - 480V~, 50/60Hz; 220-230V~, 50/60Hz 127-220-240V~, 60Hz class I, IP55		
Trade mark (if any):	Swiss Pump Company AG (SPCO)		
Model/Type reference:	HM..., CHL..., VM..., CDL..., ND..., CC..., PD..., MB..., QB..., SMP..., CCP..., SCP... see appendix type list in test report		
Additional information:	---		
Sample of product tested to be in conformity with IEC:	60335-1(ed.4);am1;am2 60335-2-41(ed.3);am1;am2	National differences: EU Group Differences; EU Special National Conditions; EU A-Deviations	
Test Report Ref. No.:	06-HG-0218.01 + .02 + .03 + .05		

This CB Test Certificate is issued by the National Certification Body:

Electrosuisse
Luppmenstrasse 1,
CH-8320 Fehraltorf

Signed by: Erich Obrist
2010-07-27

electrosuisse

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Contents

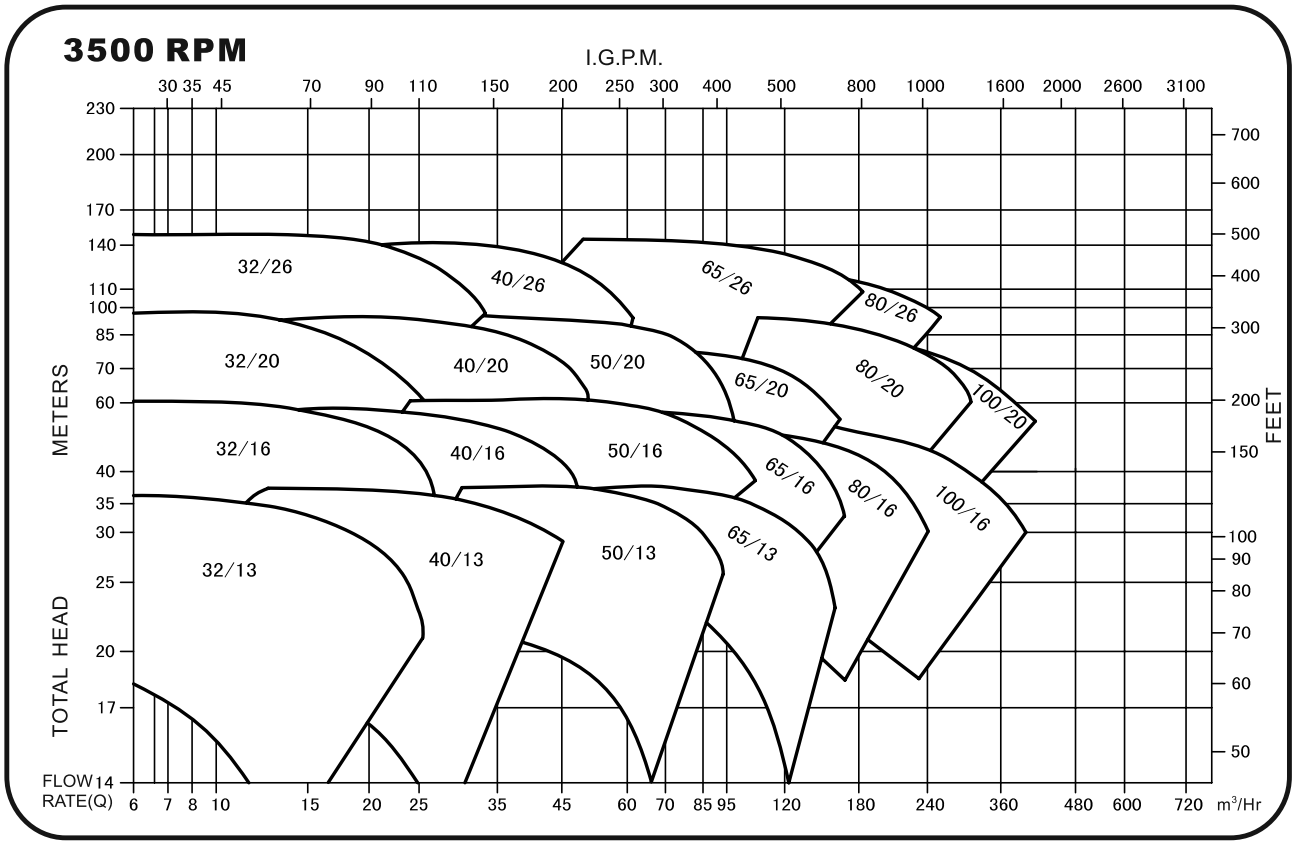
Horizontal Closed Coupled Pumps

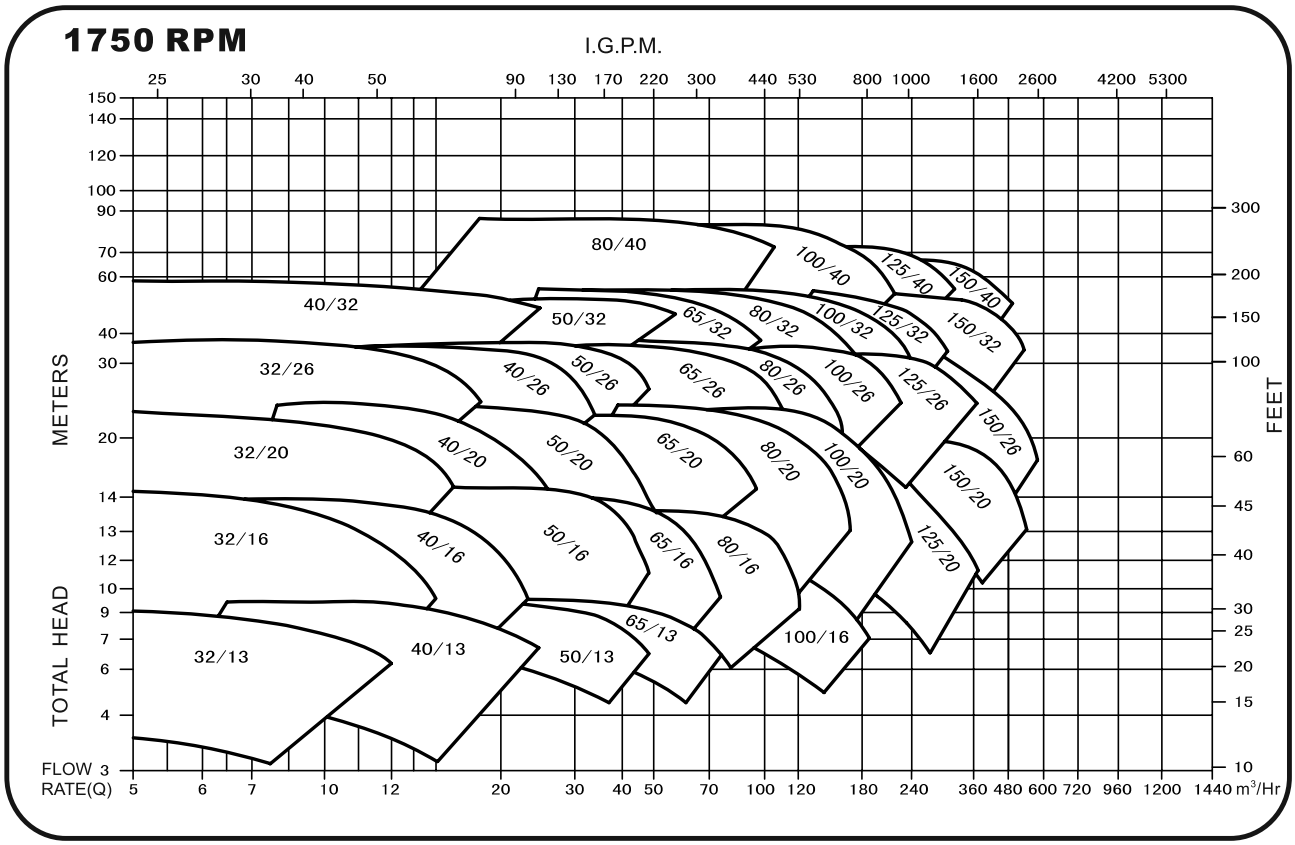
- CC series are monoblock type of ND series, no need to use couplings and motor shaft is pluged into pump shaft.
- CC pump series are designed and manufactured according to the European Standard DIN24255.
- Pump Shaft and motor shaft are close-coupled design.
- This way of coupling ensures the alignment of pump and motor.
- Pump impeller runs in good balance both dynamically and statically. therefore pump would be kept very well in operation.
- CC are designed to be driven by IEC standard motor, and can be assembled separately without motor.
- CC Series are much shorter in length thus takes less space to install, and they also can be adjusted into different performance levels through impeller trimming.

Bare shaft pump

Complete pump set

Performance scope





Applications

The pump is suitable for the pumping of thin, clean and non-aggressive liquids without solids particles or fibers in:

- Industry
- Water supply
- Air conditioning
- Construction
- Fire fighting
- Irrigation

Operating Condition

Flow Rate(Q) : 4 to 400 m^3/h
Head(H) : 8 to 150m
Speed : 1750, 3500 rpm (60Hz)
Temperature : -10°C to 85°C, (120°C on request)

Work pressure: 10 Bar standard
optional 16Bar

Design

Horizontal, Single-Stage Volute Casing pumps with dimensions and nominal ratings standard to DIN24255.

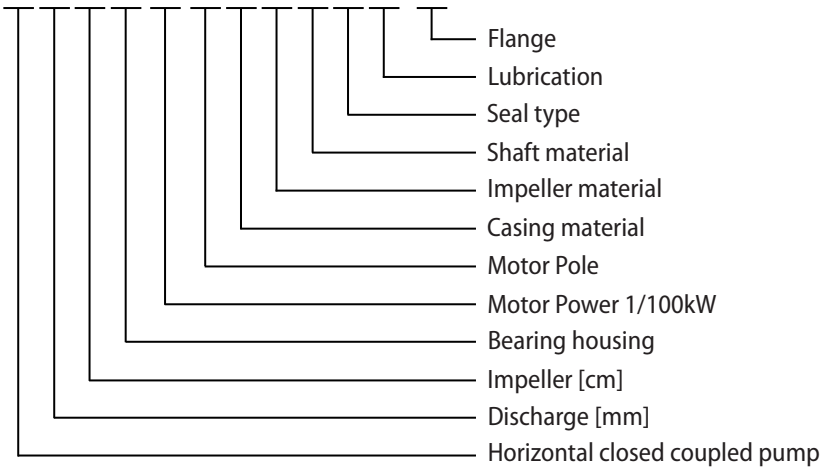
Type: Horizontal Closed Coupled Pump
Flange: DIN2501 standard, ANSI B16.5 class 150Lb (Optional)
Rotation: Clockwise as viewed from the drive side.

Material:
Casing: Cast Iron, Ductile Iron, Stainless Steel.
Impeller: Bronze, Cast Iron, Stainless Steel.
Shaft : SS 420 (Standard), SS 304, SS 316, ASTM 1045
Shaft Seal: Mechanical Seal

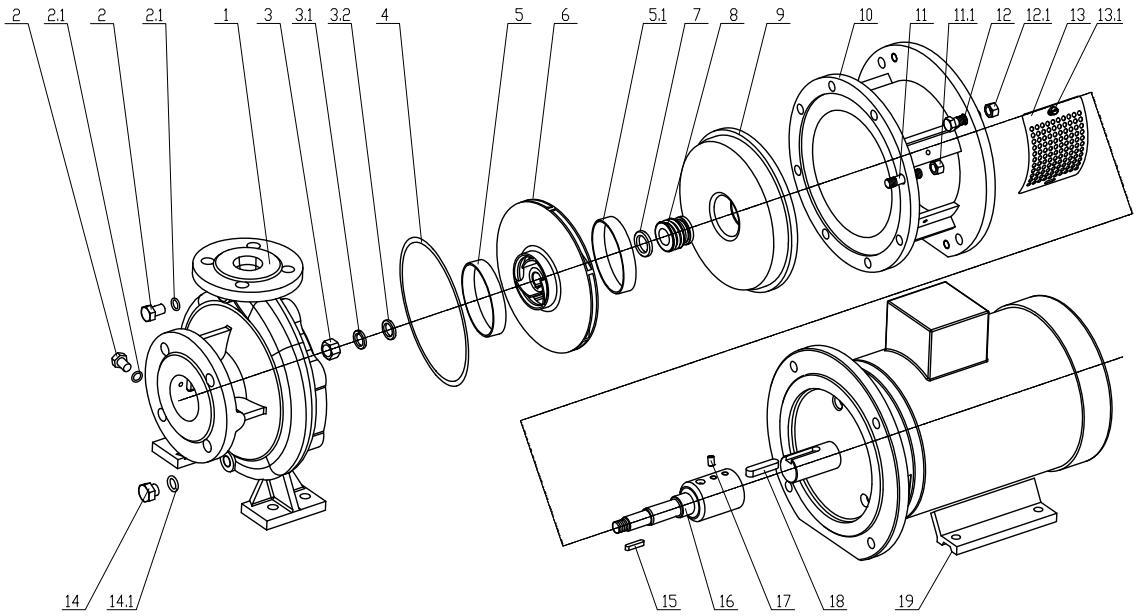
Carbon-Sic/Viton (Standard)

Definition of Model

CC 65/20 G-1850 2 - CI-BR-SS-MS-OL-ANSI



CC • Section drawing and Parts list



Code	Part Name	QTY
1	Casing	1
2	Plug	2
2.1	Plug Spacer	2
3	Nut	1
3.1	Flat Washer	1
3.2	Spring Washer	1
4	Casing Gasket	1
5	Front-Wear Ring	1
5.1	Back-Wear Ring	1
6	Impeller	1
7	Seal Seat	1
8	Mech.Seal	1
9	Casing Cover	1
10	Adapter	1

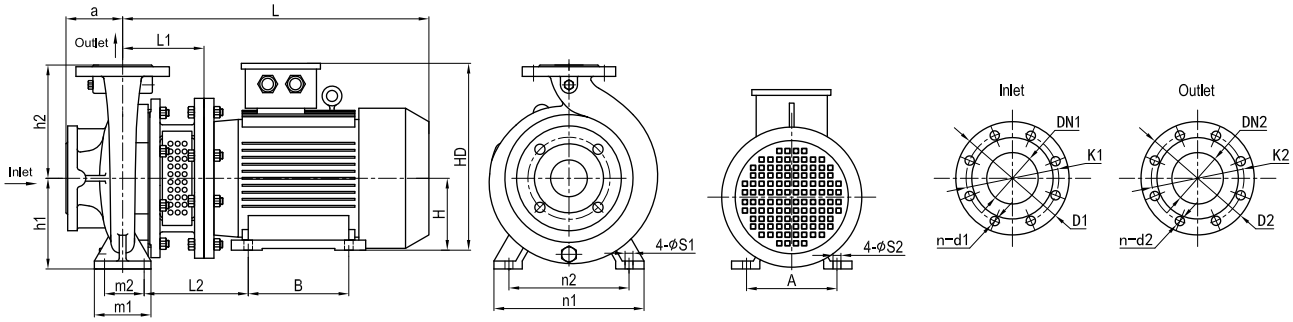
Code	Part Name	QTY
11	Screw Bolt	1set
11.1	Screw Nut	1set
12	Screw Bolt	1set
12.1	Screw Nut	1set
13	Guard	2
13.1	Screw	1set
14	Plug	1
14.1	Plug Spacer	1
15	key	1
16	Shaft	1
17	Screw	1set
18	key	1
19	Motor	1

Remark:

1) For the models other than 150/26、65/32、80/32、100/32、200/32、80/40、100/40、125/40、150/40 there is no parts of No.5.1.

2、 2) For the models of 40/32、50/32、65/32 and 80/32， while using 2900 or 3500 rpm， casing and casing cove should be made of ductile iron

CC • Instalation Dimensions

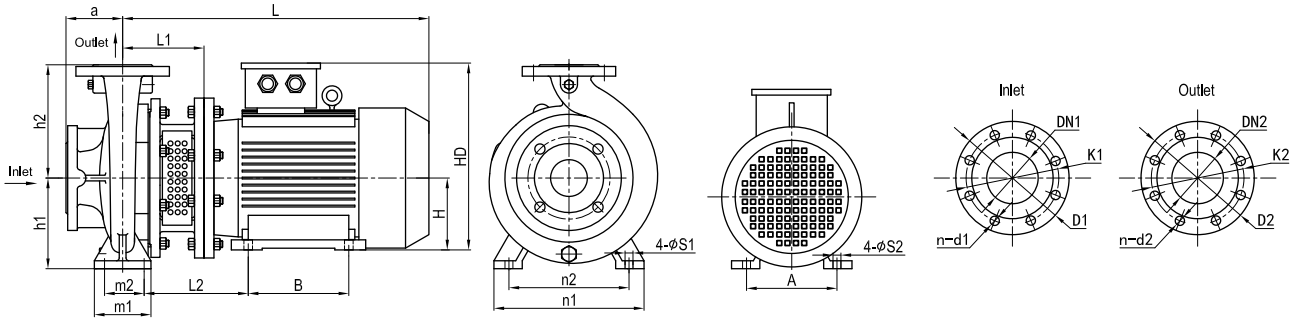


Flange Dimensions (ISO7005.2 DIN2501 PN16 GB/T17241.6 PN1.6)

DN1/DN2	32	40	50	65	80	100	125	150	200
D1/D2	140	150	165	185	200	220	250	285	340
K1/K2	100	110	125	145	160	180	210	240	295
n-d1/ n-d2	4-Φ18	4-Φ18	4-Φ18	4-Φ18	8-Φ18	8-Φ18	8-Φ18	8-Φ22	12-Φ22

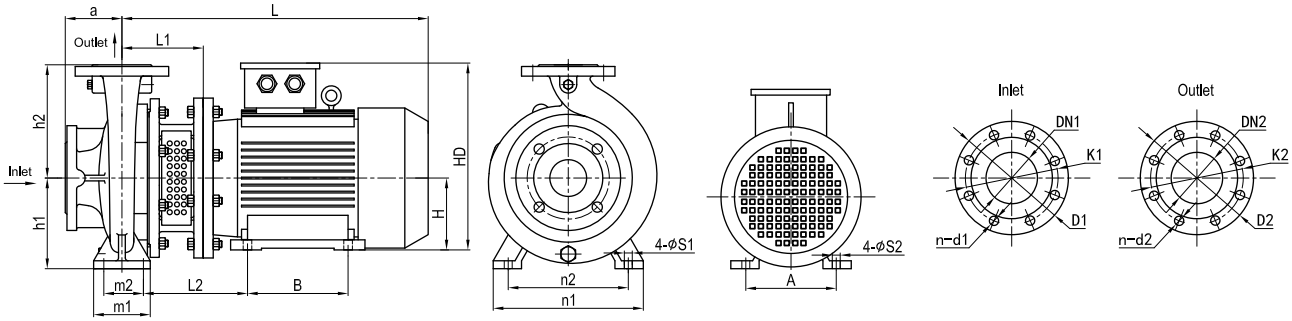
CC	Motor(B35)		Flange		Installation Dimensions(mm)																Weight(kg)		
Model	Model	kw	DN1	DN2	a	h1	h2	L1	L2	L	A	B	H	HD	m1	m2	n1	n2	S1	S2	Pump	Motor	Total
CC32/13-00554	Y2-801-4	0.55	50	32	80	112	140	152	167	407	125	100	80	220	100	70	190	140	14	10	27	16	43
CC32/13-01102	Y2-802-2	1.1																			27	17	44
CC32/13-01502	Y2-90S-2	1.5							173	422	140		90	250							27	21	48
CC32/13-02202	Y2-90L-2	2.2								447		125									27	26	52
CC40/13-00554	Y2-801-4	0.55	65	40					167	407	125	100	80	220			210	160			29	16	45
CC40/13-01502	Y2-90S-2	1.5							173	422	140		90	250							30	21	51
CC40/13-02202	Y2-90L-2	2.2							173	447		125									30	26	55
CC40/13-03002	Y2-100L-2	3						164	192	489	160	140	100	270						12	32	44	76
CC40/13-04002	Y2-112M-2	4							199	504	190		112	300							32	43	75
CC50/13-00554	Y2-801-4	0.55	65	50	100	132	160	152	167	407	125	100	80	220			240	190		10	30	16	46
CC50/13-00754	Y2-802-4	0.75																			30	17	47
CC50/13-01104	Y2-90S-4	1.1						152	173	422	140		90	250							31	22	54
CC50/13-03002	Y2-100L-2	3						164	192	489	160	140	100	270						12	39	44	83
CC50/13-04002	Y2-112M-2	4							199	504	190		112	300							39	43	82
CC50/13-05502	Y2-132S1-2	5.5						187	241	577	216		132	345							40	65	105
CC50/13-07502	Y2-132S2-2	7.5																			40	69	109
CC65/13-00754	Y2-802-4	0.75	80	65	100	160	180	152	154.5	407	125	100	80	220	125	95	280	212		10	36	17	53
CC65/13-01104	Y2-90S-4	1.1							160.5	422	140		90	250							37	22	60
CC65/13-01504	Y2-90L-4	1.5								447		125									37	27	64
CC65/13-05502	Y2-132S1-2	5.5						187	228.5	577	216	140	132	345						12	46	65	111
CC65/13-07502	Y2-132S2-2	7.5																			46	69	115
CC65/13-11002	Y2-160M1-2	11						219	279.5	724	254	210	160	420						15	54	108	162
CC32/16-00554	Y2-801-4	0.55	50	32	80	132	160	152	167	407	125	100	80	220	100	70	240	190	14	10	31	16	48
CC32/16-00754	Y2-802-4	0.75																			31	17	49
CC32/16-02202	Y2-90L-2	2.2							173	447	140	125	90	250							32	26	57
CC32/16-03002	Y2-100L-2	3						164	192	489	160	140	100	270						12	33	44	77
CC32/16-04002	Y2-112M-2	4							199	504	190		112	300							33	43	76
CC32/16-05502	Y2-132S1-2	5.5						187	241	577	216		132	345						15	38	65	103
CC40/16-00554	Y2-801-4	0.55	65	40	80	132	160	152	167	407	125	100	80	220	100	70	240	190	14	10	32	16	48
CC40/16-00754	Y2-802-4	0.75																			32	17	49
CC40/16-01104	Y2-90S-4	1.1							173	422	140	100	90	250							33	22	56
CC40/16-03002	Y2-100L-2	3						164	192	489	160	140	100	270						12	35	44	79
CC40/16-04002	Y2-112M-2	4							199	504	190	140	112	300							35	43	78
CC40/16-05502	Y2-132S1-2	5.5						187	241	577	216	140	132	345							39	65	104
CC40/16-07502	Y2-132S2-2	7.5																			39	69	108

CC • Instalation Dimensions



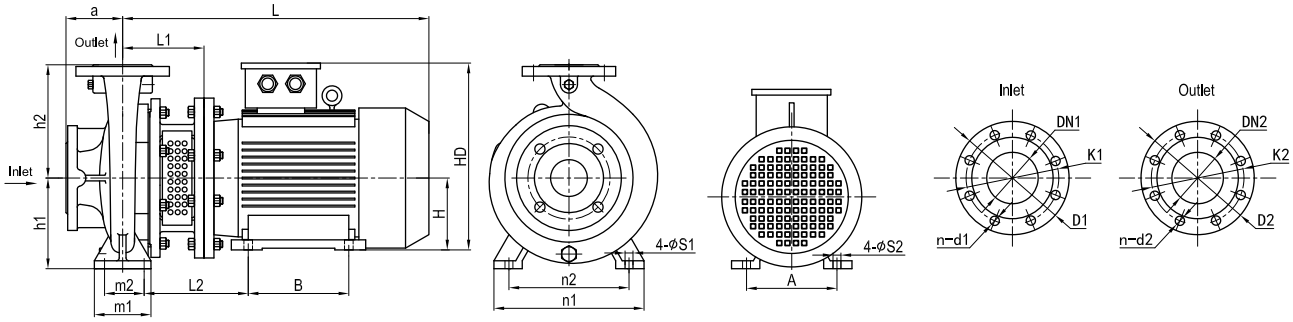
CC	Motor(B35)		Flange		Installation Dimensions(mm)																	Weight(kg)		
Model	Model	kw	DN1	DN2	a	h1	h2	L1	L2	L	A	B	H	HD	m1	m2	n1	n2	S1	S2	Pump	Motor	Total
CC100/20-03004	Y2-100L2-4	3						180	183	505	160	140	100	270							68	37	105
CC100/20-04004	Y2-112M-4	4							190	520	190	140	112	300						12	68	47	115
CC100/20-05504	Y2-132S-4	5.5						203	232	593	216	140	132	345							69	65	134
CC100/20-07504	Y2-132M-4	7.5								633		178									69	79	147
CC100/20-11004	Y2-160M-4	11	125	100	125	200	280	235	283	740	254	210	160	420	160	120	360	280	18	15	72	108	180
CC100/20-30002	Y2-200L1-2	30						238	311	898	318	305	200	505							79	224	303
CC100/20-37002	Y2-200L2-2	37																		19	79	235	313
CC100/20-45002	Y2-225M-2	45							327	943	356	311	225	560							83	286	369
CC100/20-55002	Y2-250M-2	55						272	380	1042	406	349	250	615						24	95	373	469
CC100/20-75002	Y2-280S-2	75	125	100	125	200	280	272	402	1117	457	368	280	680	160	120	360	280	18	24	96	485	580
CC125/20-07504	Y2-132M-4	7.5						203	232	633	216	178	132	345						12	92	79	171
CC125/20-11004	Y2-160M-4	11						235	283	740	254	210	160	420						15	96	108	204
CC125/20-45002	Y2-225M-2	45	150	125	140	250	315	238	327	943	356	311	225	560	160	120			18	19	106	286	392
CC125/20-55002	Y2-250M-2	55							380	1042	406	349	250	615							118	373	491
CC125/20-75002	Y2-280S-2	75						272	402	1117	457	368	280	680			400	315		24	119	485	604
CC125/20-90002	Y2-280M-2	90								1167		419									122	541	663
CC150/20-11004	Y2-160M-4	11							295	767	254	241	160	420							96	108	204
CC150/20-15004	Y2-160L-4	15	200	150	160	280	400	262		822		254			200	150			23	15	96	129	225
CC150/20-18504	Y2-180M-4	18.5							308	852	279	241	180	455							98	157	255
CC32/26-02204	Y2-100L1-4	2.2						174	187.5	499	160	140	100	270						12	55	34	89
CC32/26-03004	Y2-100L2-4	3																			55	37	92
CC32/26-11002	Y2-160M1-2	11	50	32				229	287.5	734	254	210	160	420				250			63	108	171
CC32/26-15002	Y2-160M2-2	15																		15	63	109	173
CC32/26-18502	Y2-160L-2	18.5								789		254									63	133	196
CC32/26-22002	Y2-180M-2	22							300.5	819	279	241	180	455							64	155	219
CC40/26-02204	Y2-100L1-4	2.2						174	187.5	499	160	140	100	270						12	55	34	89
CC40/26-03004	Y2-100L2-4	3																			55	37	92
CC40/26-11002	Y2-160M1-2	11	65	40	100	180	225	229	287.5	734	254	210	160	420	125	95	320		14	15	63	108	171
CC40/26-15002	Y2-160M2-2	15																			63	109	172
CC40/26-18502	Y2-160L-2	18.5								789		254									63	133	195
CC40/26-22002	Y2-180M-2	22							300.5	819	279	241	180	455				250			63	155	218
CC50/26-02204	Y2-100L1-4	2.2						175	187.5	500	160	140	100	270						12	56	34	90
CC50/26-03004	Y2-100L2-4	3																			56	37	93
CC50/26-04004	Y2-112M-4	4	65	50					194.5	515	190	178	112	300							56	47	103
CC50/26-05504	Y2-132S-4	5.5						198	236.5	588	216	140	132	345							60	65	125
CC50/26-18502	Y2-160L-2	18.5						230	287.5	790	254	254	160	420						15	62	133	195
CC50/26-22002	Y2-180M-2	22							300.5	820	279	241	180	455							65	155	220
CC50/26-30002	Y2-200L1-2	30	65	50	100	180	225	233	315.5	893	318	305	200	505	125	95	320	250	14	19	71	224	295
CC50/26-37002	Y2-200L2-2	37																			71	235	306
CC65/26-04004	Y2-112M-4	4						180	190	520	190	140	112	300						12	66	47	113
CC65/26-05504	Y2-132S-4	5.5						203	232	593	216	140	132	345							68	65	133
CC65/26-07504	Y2-132M-4	7.5	80	65	100	200	250			633		178					360	280	18		68	79	147
CC65/26-30002	Y2-200L1-2	30						238	311	898	318	305	200	505						19	80	224	304
CC65/26-37002	Y2-200L2-2	37																			80	235	315
CC65/26-45002	Y2-225M-2	45						238	327	943	356	311	225	560							84	286	370
CC65/26-55002	Y2-250M-2	55						272	380	1042	406	349	250	615	160	120				24	98	373	471
CC80/26-05504	Y2-132S-4	5.5						203	232	593	216	140	132	345						12	75	65	140
CC80/26-07504	Y2-132M-4	7.5								633		178									75	79	153
CC80/26-11004	Y2-160M-4	11						235	283	740	254	210	160	420						15	81	108	189
CC80/26-37002	Y2-200L2-2	37	100	80	125	200	280	238	311	898	318	305	200	505			400	315	18	19	100	235	335
CC80/26-45002	Y2-225M-2	45							327	943	356	311	225	560							102	286	388
CC80/26-55002	Y2-250M-2	55						272	380	1042	406	349	250	615						24	105	373	478
CC80/26-75002	Y2-280S-2	75							402	1117	457	368	280	680							105	485	589
CC100/26-07504	Y2-132M-4	7.5						207	236	637	216	178	132	345						12	85	79	164
CC100/26-11004	Y2-160M-4	11						239	287	744	254	210	160	420						15	89	108	197
CC100/26-15004	Y2-160L-4	15	125	100		225	280			799		254									89	129	217
CC100/26-55002	Y2-250M-2	55						276	384	1046	406	349	250	615						24	105	373	478
CC100/26-75002	Y2-280S-2	75							406	1121	457	368	280	680							112	485	597
CC100/26-90002	Y2-280M-2	90			140					1171		419			160	120	400	315	18		112	541	653
CC125/26-11004	Y2-160M-4	11						239	287	744	254	210	160	420						15	104	108	212
CC125/26-15004	Y2-160L-4	15	150	125		250	355			799		254									104	129	233
CC125/26-18504	Y2-180M-4	18.5							300	829	279	241	180	455							104	157	261
CC125/26-22004	Y2-180L-4	22								869		279									104	179	283
CC125/26-30004	Y2-200L-4	30						242	315	901	318	305	200	505						19	110	240	350
CC150/26-15004	Y2-160L-4	15	200	150	160	250	355	248	281	808	254	254	160	420	200	150	450	350	23	15	135	129	264
CC150/26-18504	Y2-180M-4	18.5							294	838	279	241	180	455						15	135	157	292
CC150/26-22004	Y2-180L-4	22	200	150	160	250	355	248		878		279			200	150	450	350	23		135	179	314
CC150/26-30004	Y2-200L-4	30							306	908	318	305	200	505						19	154	240	394

CC • Instalation Dimensions



CC	Motor(B35)		Flange		Installation Dimensions(mm)																Weight(kg)		
Model	Model	kw	DN 1	DN2	a	h1	h2	L1	L2	L	A	B	H	HD	m1	m2	n1	n2	S1	S2	Pump	Motor	Total
CC50/16-00554	Y2-801-4	0.55	65	50	100	160	180	152	167	407	125	100	80	220	100	70	265	212	14	10	35	16	51
CC50/16-00754	Y2-802-4	0.75																			35	17	52
CC50/16-01104	Y2-90S-4	1.1							173	422	140	100	90	250							36	22	58
CC50/16-01504	Y2-90L-4	1.5								447		125									36	27	62
CC50/16-05502	Y2-132S1-2	5.5						187	241	577	216	140	132	345						12	42	65	107
CC50/16-07502	Y2-132S2-2	7.5																			42	69	111
CC50/16-11002	Y2-160M1-2	11						219	292	724	254	210	160	420						15	45	108	153
CC50/16-15002	Y2-160M2-2	15																			45	109	154
CC65/16-00754	Y2-802-4	0.75	80	65			200	152	154.5	407	125	100	80	220	125	95	280			10	39	17	56
CC65/16-01104	Y2-90S-4	1.1							160.5	422	140	100	90	250							40	22	62
CC65/16-01504	Y2-90L-4	1.5								447		125									40	27	67
CC65/16-02204	Y2-100L1-4	2.2						164	179.5	489	160	140	100	270						12	42	34	75
CC65/16-05502	Y2-132S1-2	5.5						187	228.5	577	216	140	132	345							47	65	112
CC65/16-07502	Y2-132S2-2	7.5																			47	69	116
CC65/16-11002	Y2-160M1-2	11						219	279.5	724	254	210	160	420						15	49	108	157
CC65/16-15002	Y2-160M2-2	15																			49	109	158
CC65/16-18502	Y2-160L-2	18.5								779		254									49	133	182
CC80/16-01504	Y2-90L-4	1.5	100	80	125	180	225	152	160.5	447	140	125	90	250	125	95	320	250		10	49	27	76
CC80/16-02204	Y2-100L1-4	2.2						164	179.5	489	160	140	100	270						12	51	34	85
CC80/16-03004	Y2-100L2-4	3																			51	37	88
CC80/16-11002	Y2-160M1-2	11						219	279.5	724	254	210	160	420						15	58	108	166
CC80/16-15002	Y2-160M2-2	15	100	80	125	180	225	219	279.5	724	254	210	160	420	125	95	320	250	14	15	58	109	167
CC80/16-18502	Y2-160L-2	18.5								779		254									58	133	191
CC80/16-22002	Y2-180M-2	22							292.5	809	279	241	180	455							58	155	213
CC80/16-30002	Y2-200L1-2	30						222	307.5	882	318	305	200	505						19	66	224	290
CC100/16-02204	Y2-100L1-4	2.2	125	100	125	200	250	191	194	516	160	140	100	270	160	120	360	280	18	12	70	34	104
CC100/16-03004	Y2-100L2-4	3																			70	37	107
CC100/16-04004	Y2-112M-4	4							201	531	190	140	112	300							71	47	118
CC100/16-15002	Y2-160M2-2	15						246	294	751	254	210	160	420						15	78	109	187
CC100/16-18502	Y2-160L-2	18.5								806	254	241									78	133	211
CC100/16-22002	Y2-180M-2	22							307	836	279	241	180	455							80	155	235
CC100/16-30002	Y2-200L1-2	30						249	322	909	318	305	200	505						19	82	224	306
CC32/20-00554	Y2-801-4	0.55	50	32	80	160	180	152	167	407	125	100	80	220	100	70	240	190	14	10	38	16	54
CC32/20-00754	Y2-802-4	0.75																			38	17	55
CC32/20-01104	Y2-90S-4	1.1							173	422	140	100	90	250							39	22	62
CC32/20-01504	Y2-90L-4	1.5								447		125									39	27	66
CC32/20-04002	Y2-112M-2	4						164	199	504	190	140	112	300						12	42	43	85
CC32/20-05502	Y2-132S1-2	5.5						187	241	577	216	140	132	345							44	65	109
CC32/20-07502	Y2-132S2-2	7.5																			44	69	114
CC32/20-11002	Y2-160M1-2	11						219	292	724	254	210	160	420						15	49	108	157
CC40/20-00754	Y2-802-4	0.75	65	40	100	160	180	152	167	407	125	100	80	220			265	212		10	37	17	54
CC40/20-01104	Y2-90S-4	1.1							173	422	140	100	90	250							38	22	61
CC40/20-01504	Y2-90L-4	1.5								447		125									38	27	65
CC40/20-05502	Y2-132S1-2	5.5						187	241	577	216	140	132	345						12	43	65	108
CC40/20-07502	Y2-132S2-2	7.5																			43	69	112
CC40/20-11002	Y2-160M1-2	11						219	292	724	254	210	160	420						15	48	108	156
CC50/20-01104	Y2-90S-4	1.1	65	50			200	155	173	425	140	100	90	250						10	43	22	65
CC50/20-01504	Y2-90L-4	1.5								450		125									43	27	70
CC50/20-02204	Y2-100L1-4	2.2						167	192	492	160	140	100	270						12	46	34	79
CC50/20-07502	Y2-132S2-2	7.5	65	50	100	160	200	190	241	580	216	140	132	345	100	70	265	212	14	12	48	69	117
CC50/20-11002	Y2-160M1-2	11						222	292	727	254	210	160	420						15	53	108	161
CC50/20-15002	Y2-160M2-2	15																			53	109	162
CC50/20-18502	Y2-160L-2	18.5								782		254									53	133	185
CC65/20-02204	Y2-100L1-4	2.2	80	65	100	180	225	164	179.5	489	160	140	100	270	125	95	320	250		12	50	34	83
CC65/20-03004	Y2-100L2-4	3																			50	37	86
CC65/20-04004	Y2-112M-4	4							186.5	504	190	140	112	300							50	47	96
CC65/20-15002	Y2-160M2-2	15						219	279.5	724	254	210	160	420						15	57	109	166
CC65/20-18502	Y2-160L-2	18.5								779		254									57	133	189
CC65/20-22002	Y2-180M-2	22							292.5	809	279	241	180	455							57	155	212
CC65/20-30002	Y2-200L1-2	30						222	307.5	882	318	305	200	505						19	63	224	288
CC80/20-03004	Y2-100L2-4	3	100	80	125	180	250	180	195.5	505	160	140	100	270	125	95	345	280		12	56	37	93
CC80/20-04004	Y2-112M-4	4							202.5	520	190	140	112	300							56	47	103
CC80/20-05504	Y2-132S-4	5.5						203	244.5	593	216	140	132	345							60	65	125
CC80/20-07504	Y2-132M-4	7.5								633		178									60	79	138
CC80/20-22002	Y2-180M-2	22						235	308.5	825	279	241	180	455						15	68	155	223
CC80/20-30002	Y2-200L1-2	30						238	323.5	898	318	305	200	505						19	70	224	294
CC80/20-37002	Y2-200L2-2	37																			70	235	305
CC80/20-45002	Y2-225M-2	45							339.5	943	356	311	225	560							75	286	360

CC • Instalation Dimensions



CC	Motor(B35)		Flange		Installation Dimensions(mm)																	Weight(kg)		
Model	Model	kw	DN 1	DN2	a	h1	h2	L1	L2	L	A	B	H	HD	m1	m2	n1	n2	S1	S2	Pump	Motor	Total
CC40/32-03004	Y2-100L2-4	3	65	40	125	200	250	180	195.5	505	160	140	100	270	125	95	345	280	14	12	75	37	112
CC40/32-04004	Y2-112M-4	4							202.5	520	190	140	112	300							75	47	122
CC40/32-05504	Y2-132S-4	5.5						202	243.5	592	216	140	132	345							79	65	144
CC40/32-07504	Y2-132M-4	7.5								632		178									79	79	157
CC40/32-22002	Y2-180M-2	22						238	311.5	828	279	241	180	455						15	84	155	239
CC40/32-30002	Y2-200L1-2	30						238	323.5	898	318	305	200	505						19	88	224	313
CC40/32-37002	Y2-200L2-2	37																			88	235	323
CC40/32-45002	Y2-225M-2	45							339.5	943	356	311	225	560							96	286	381
CC40/32-55002	Y2-250M-2	55						274	394.5	1044	406	349	250	615						24	114	373	487
CC50/32-04004	Y2-112M-4	4	65	50		225	280	180	202.5	520	190	140	112	300						12	77	47	124
CC50/32-05504	Y2-132S-4	5.5						202	243.5	592	216		132	345							81	65	147
CC50/32-07504	Y2-132M-4	7.5								632		178									81	79	160
CC50/32-11004	Y2-160M-4	11						238	298.5	743	254	210	160	420						15	86	108	194
CC50/32-37002	Y2-200L2-2	37						238	323.5	898	318	305	200	505						19	91	235	325
CC50/32-45002	Y2-225M-2	45							339.5	943	356	311	225	560							98	286	384
CC50/32-55002	Y2-250M-2	55						274	394.5	1044	406	349	250	615						24	116	373	490
CC50/32-75002	Y2-280S-2	75							416.5	1119	457	368	280	680							117	485	601
CC65/32-05504	Y2-132S-4	5.5	80	65				201	230	591	216	140	132	345	160	120	400	315	18	12	92	65	157
CC65/32-07504	Y2-132M-4	7.5								631		178									92	79	171
CC65/32-11004	Y2-160M-4	11						235	283	740	254	210	160	420						15	95	108	203
CC65/32-15004	Y2-160L-4	15								795		254									95	129	224
CC65/32-45002	Y2-225M-2	45						252	341	957	356	311	225	560						19	116	286	401
CC65/32-55002	Y2-250M-2	55						272	380	1042	406	349	250	615						24	122	373	496
CC65/32-75002	Y2-280S-2	75							402	1117	457	368	280	680							122	485	607
CC65/32-90002	Y2-280M-2	90								1167		419									122	541	663
CC80/32-07504	Y2-132M-4	7.5	100	80	125	250	315	201	230	631	216	178	132	345	160	120	400	315	18	12	95	79	174
CC80/32-11004	Y2-160M-4	11						235	283	740	254	210	160	420						15	100	108	208
CC80/32-15004	Y2-160L-4	15								795		254									100	129	229
CC80/32-18504	Y2-180M-4	18.5							296	825	279	241	180	455							105	157	262
CC80/32-75002	Y2-280S-2	75						272	402	1117	457	368	280	680						24	127	485	612
CC80/32-90002	Y2-280M-2	90								1167		419									127	541	668
CC100/32-11004	Y2-160M-4	11	125	100	140			235	283	740	254	210	160	420						15	105	108	213
CC100/32-15004	Y2-160L-4	15								795		254									105	129	233
CC100/32-18504	Y2-180M-4	18.5							296	825	279	241	180	455							105	157	262
CC100/32-22004	Y2-180L-4	22								865		279									105	179	283
CC100/32-30004	Y2-200L-4	30						237	310	897	318	305	200	505						19	111	240	351
CC125/32-15004	Y2-160L-4	15	150	125	140	280	355	249	282	809	254	254	160	420	200	150	500	400	23	15	138	129	266
CC125/32-18504	Y2-180M-4	18.5							295	839	279	241	180	455							138	157	295
CC125/32-22004	Y2-180L-4	22								879		279									138	179	316
CC125/32-30004	Y2-200L-4	30							307	909	318	305	200	505						19	140	240	379
CC125/32-37004	Y2-225S-4	37						285	359	965	356	286	225	560							148	301	449
CC150/32-22004	Y2-180L-4	22	200	150	160		400	250	295	880	279	279	180	455			550	450		15	153	179	332
CC150/32-30004	Y2-200L-4	30							307	910	318	305	200	505							155	240	395
CC150/32-37004	Y2-225S-4	37						286	359	966	356	286	225	560						19	163	301	464
CC150/32-45004	Y2-225M-4	45								991		311									163	312	476
CC150/32-55004	Y2-250M-4	55							378	1056	406	349	250	615						24	178	383	561
CC80/40-15004	Y2-160L-4	15	100	80	125	280	355	249	297	809	254	254	160	420	160	120	400	340	18	15	140	129	269
CC80/40-18504	Y2-180M-4	18.5							310	839	279	241	180	455							142	157	299
CC80/40-22004	Y2-180L-4	22								879		279									142	179	321
CC80/40-30004	Y2-200L-4	30							322	909	318	305	200	505						19	148	240	387
CC100/40-22004	Y2-180L-4	22	125	100	140				295	879	279	279	180	455	200	150	500	400	23	15	160	179	339
CC100/40-30004	Y2-200L-4	30							307	909	318	305	200	505						19	162	240	401
CC100/40-37004	Y2-225S-4	37						284	358	964	356	286	225	560							168	301	469
CC100/40-45004	Y2-225M-4	45	125	100	140	280	355	284	358	989	356	311	225	560		150	500	400	23		168	312	480
CC125/40-30004	Y2-200L-4	30	150	125		315	400	249	307	909	318	305	200	505	200					19	170	240	410
CC125/40-37004	Y2-225S-4	37						284	358	964	356	286	225	560							176	301	476
CC125/40-45004	Y2-225M-4	45								989		311									176	312	488
CC125/40-55004	Y2-250M-4	55							377	1054	406	349	250	615						24	180	383	562
CC125/40-75004	Y2-280S-4	75							399	1129	457	368	280	680							181	544	725
CC150/40-37004	Y2-225S-4	37	200	150	160		450	286	358	966	356	286	225	560			550	450		19	200	301	501
CC150/40-45004	Y2-225M-4	45								991		311									200	312	512
CC150/40-55004	Y2-250M-4	55							377	1056	406	349	250	615						24	203	383	586
CC150/40-75004	Y2-280S-4	75							399	1131	457	368	280	680							205	544	748
CC150/40-90004	Y2-280M-4	90								1181		419									205	587	791

Performance Curves

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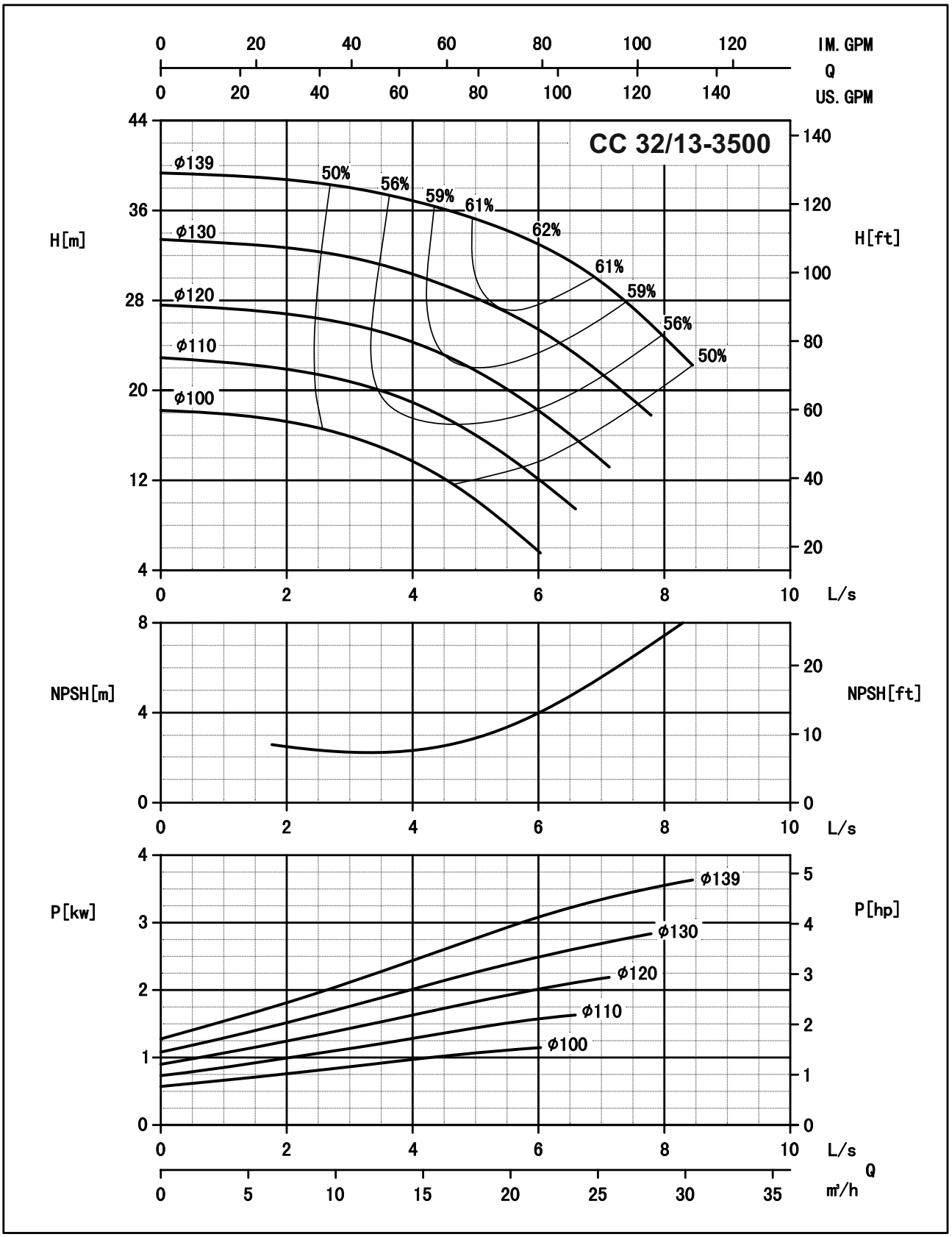

Performance Curves

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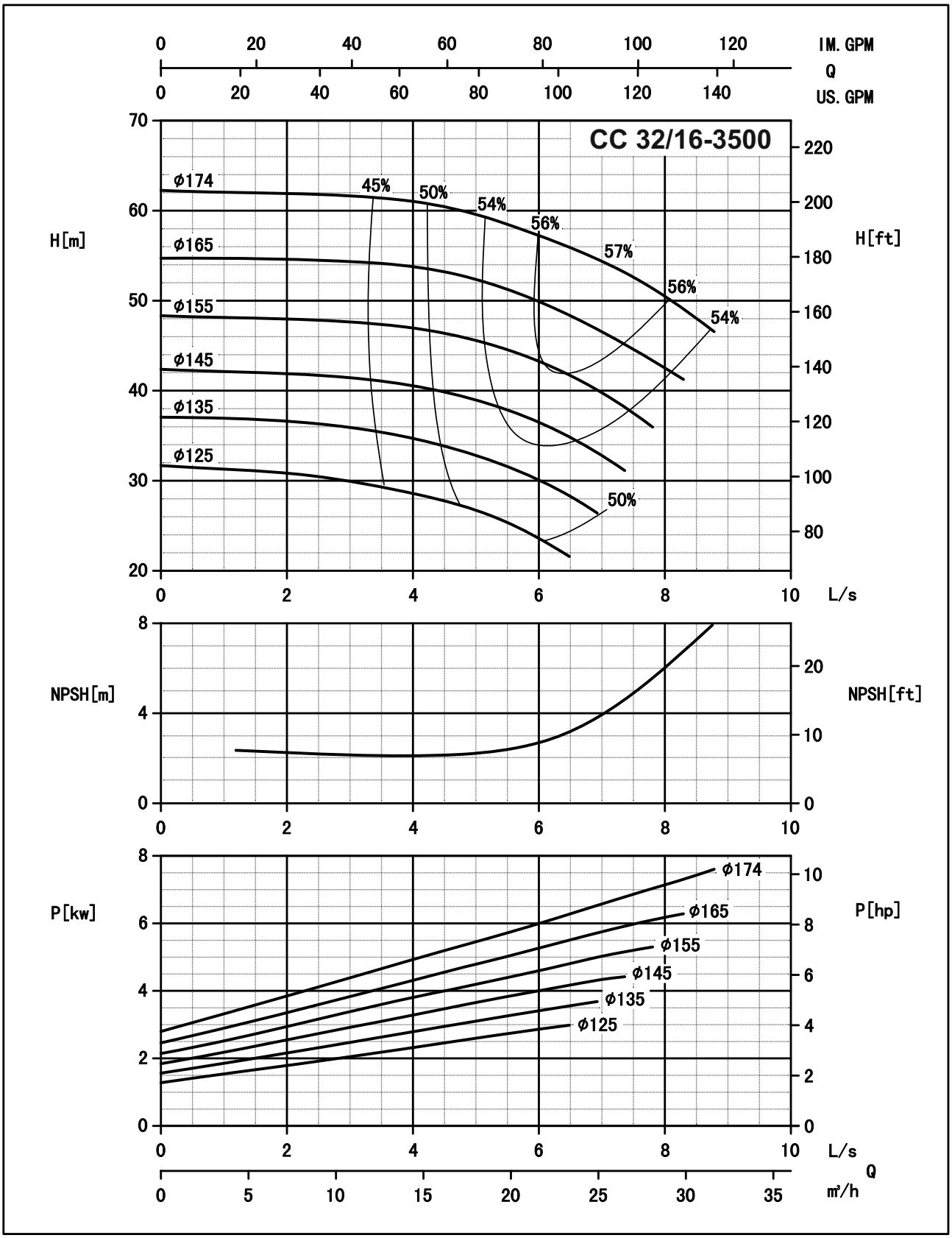

Performance Curves

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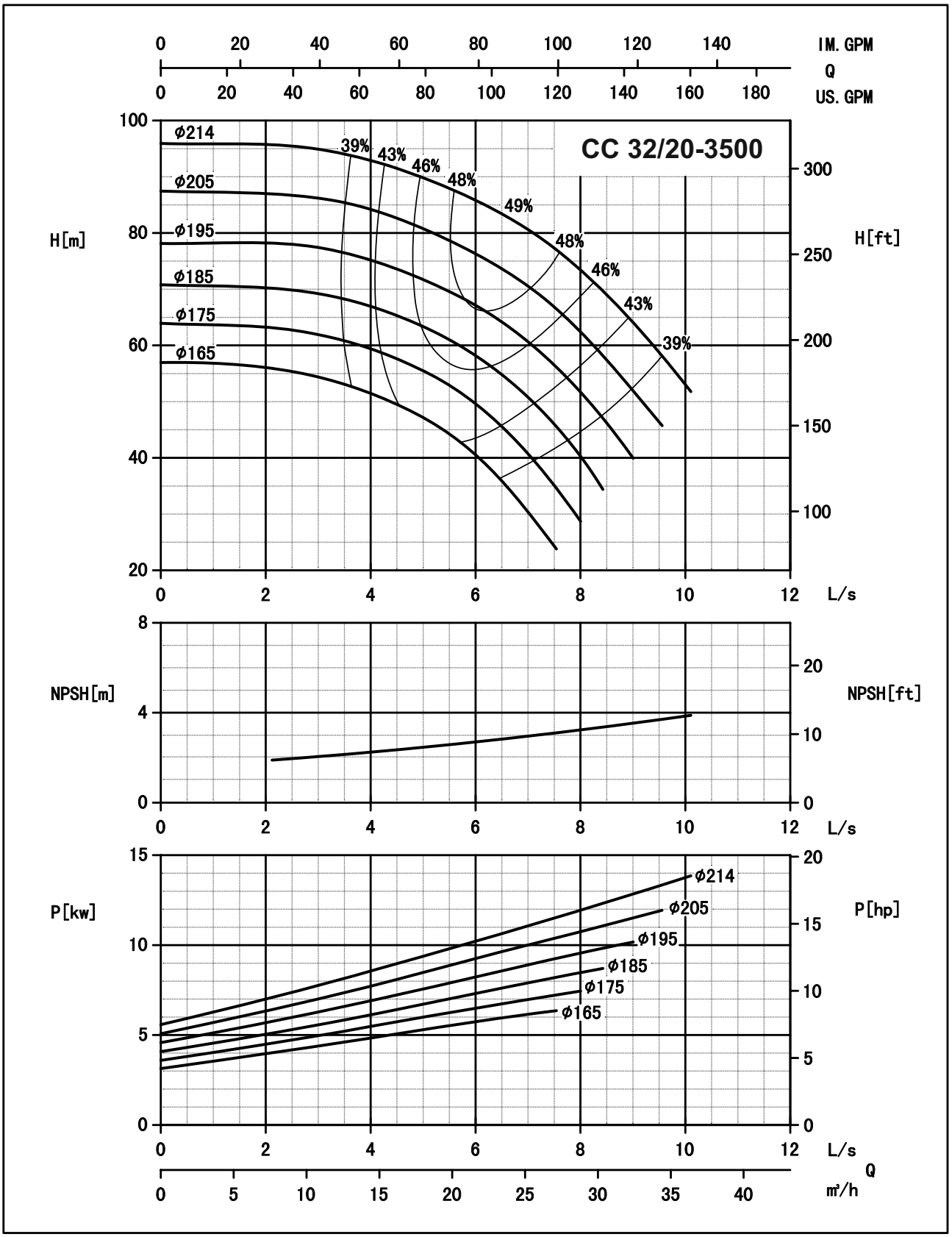

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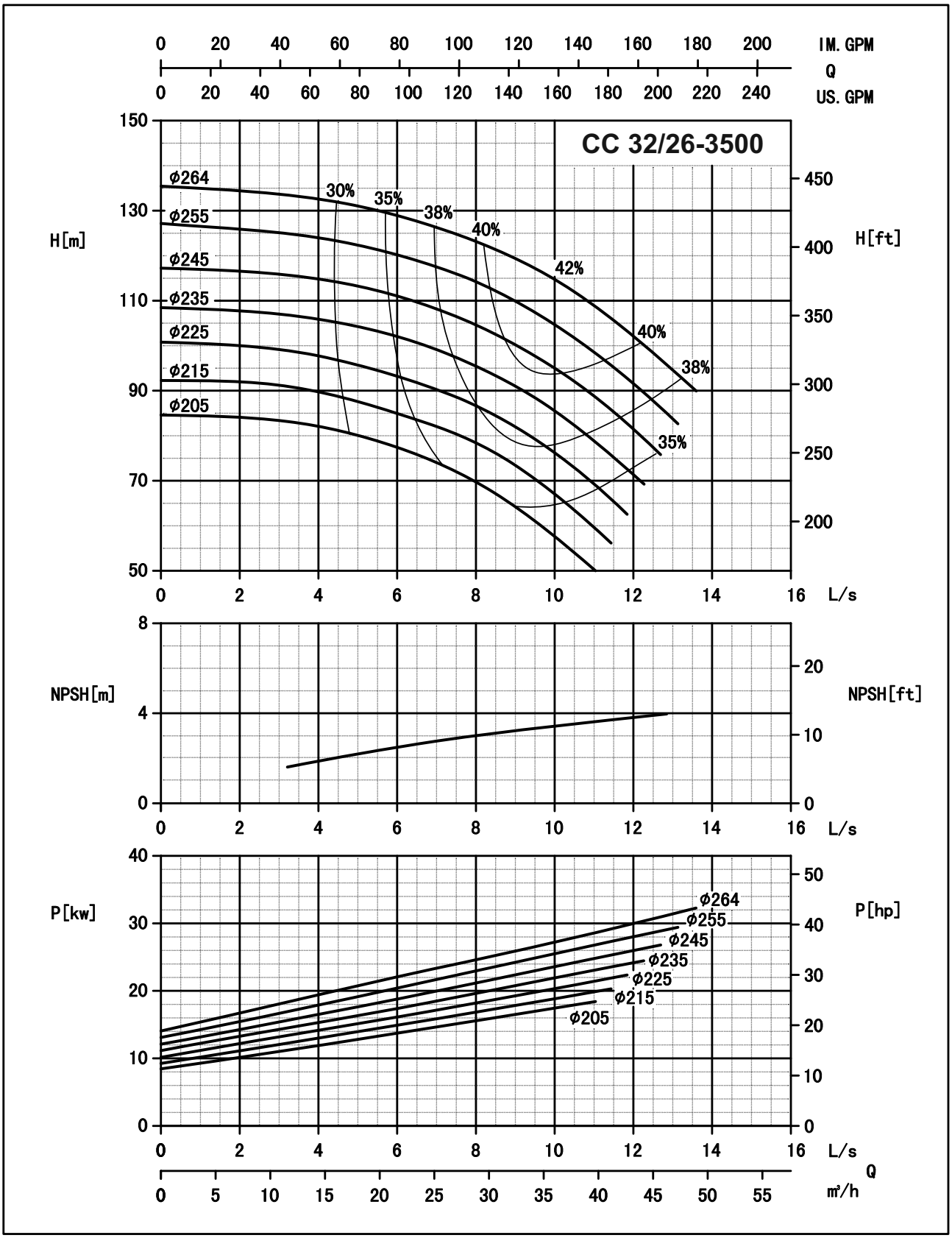

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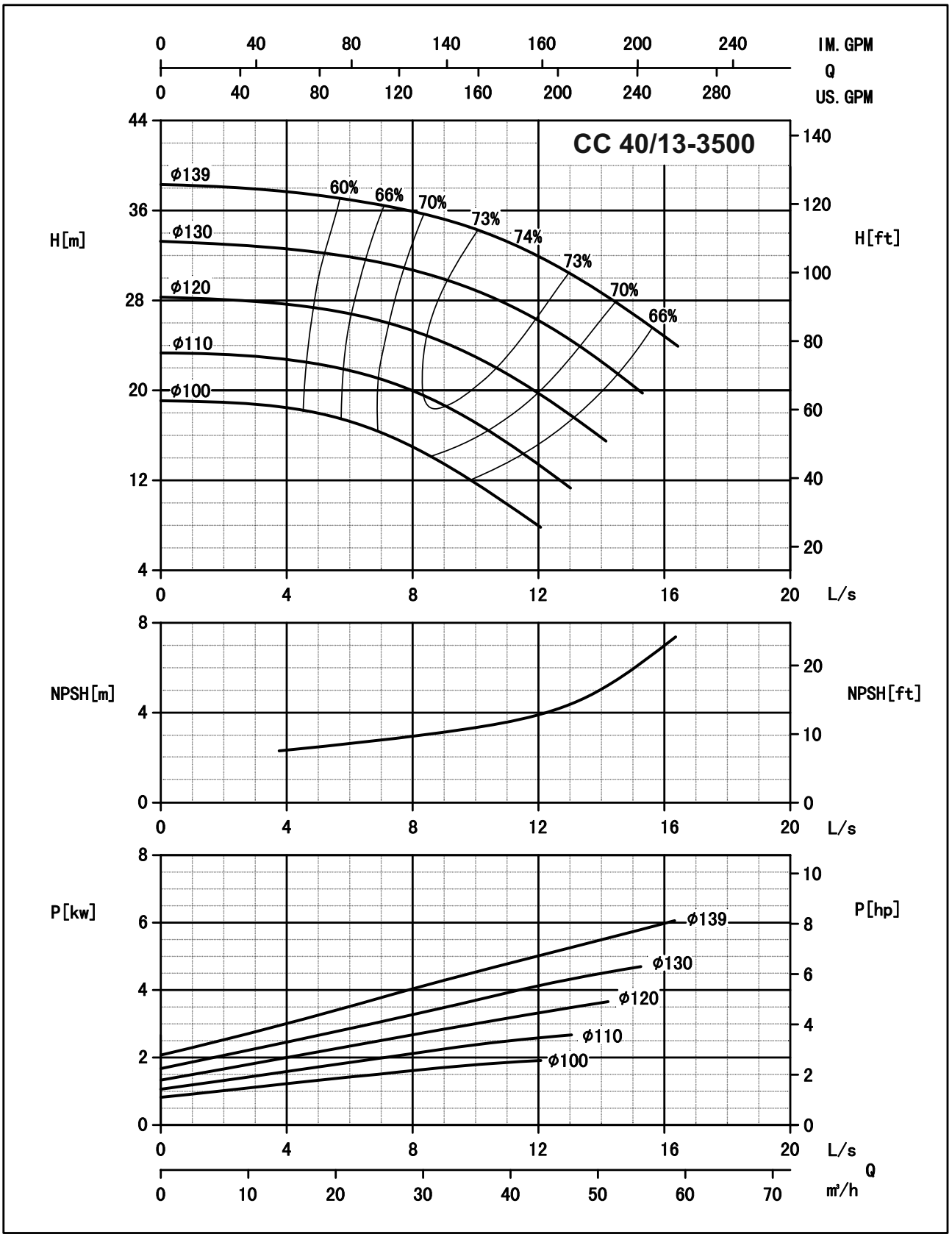

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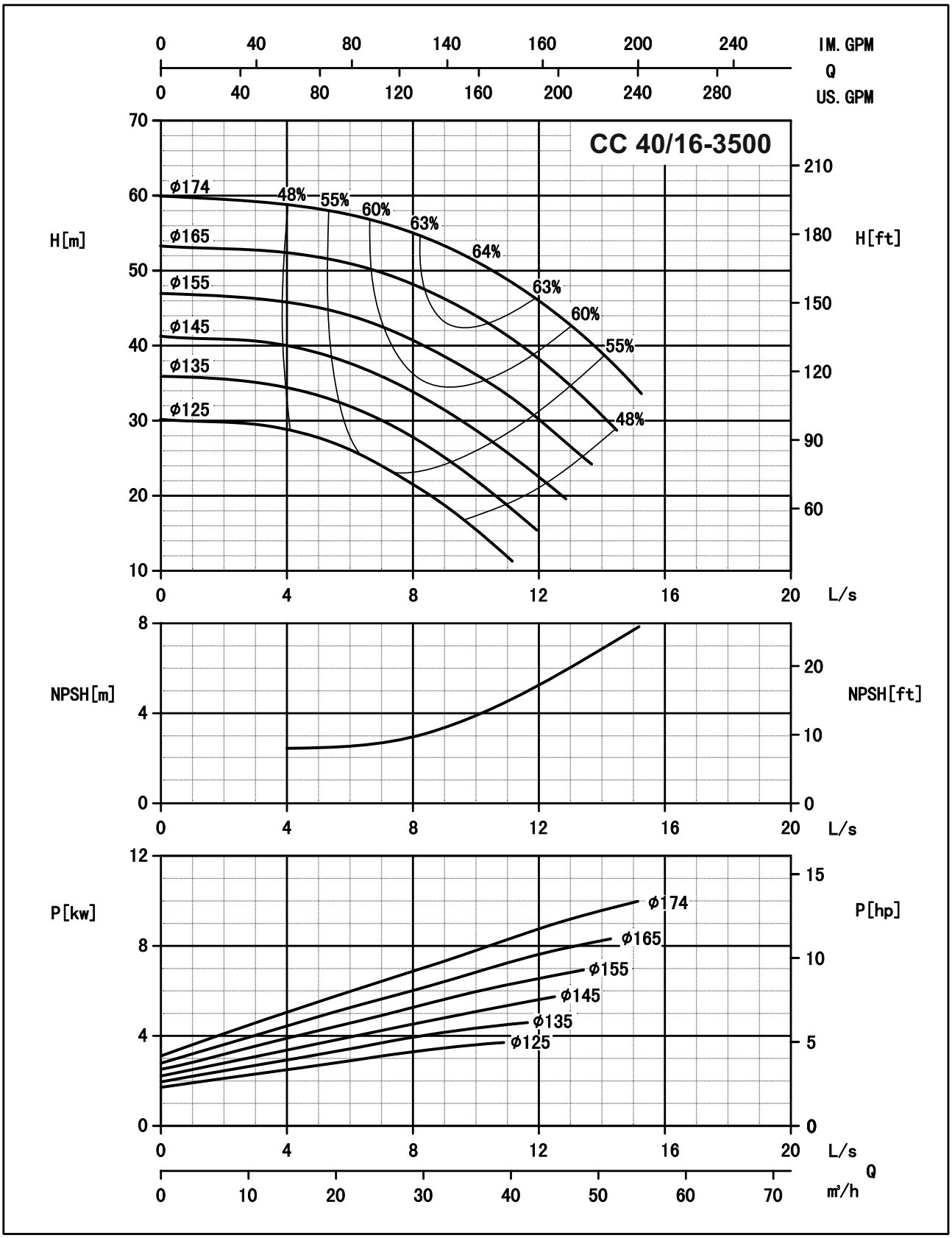

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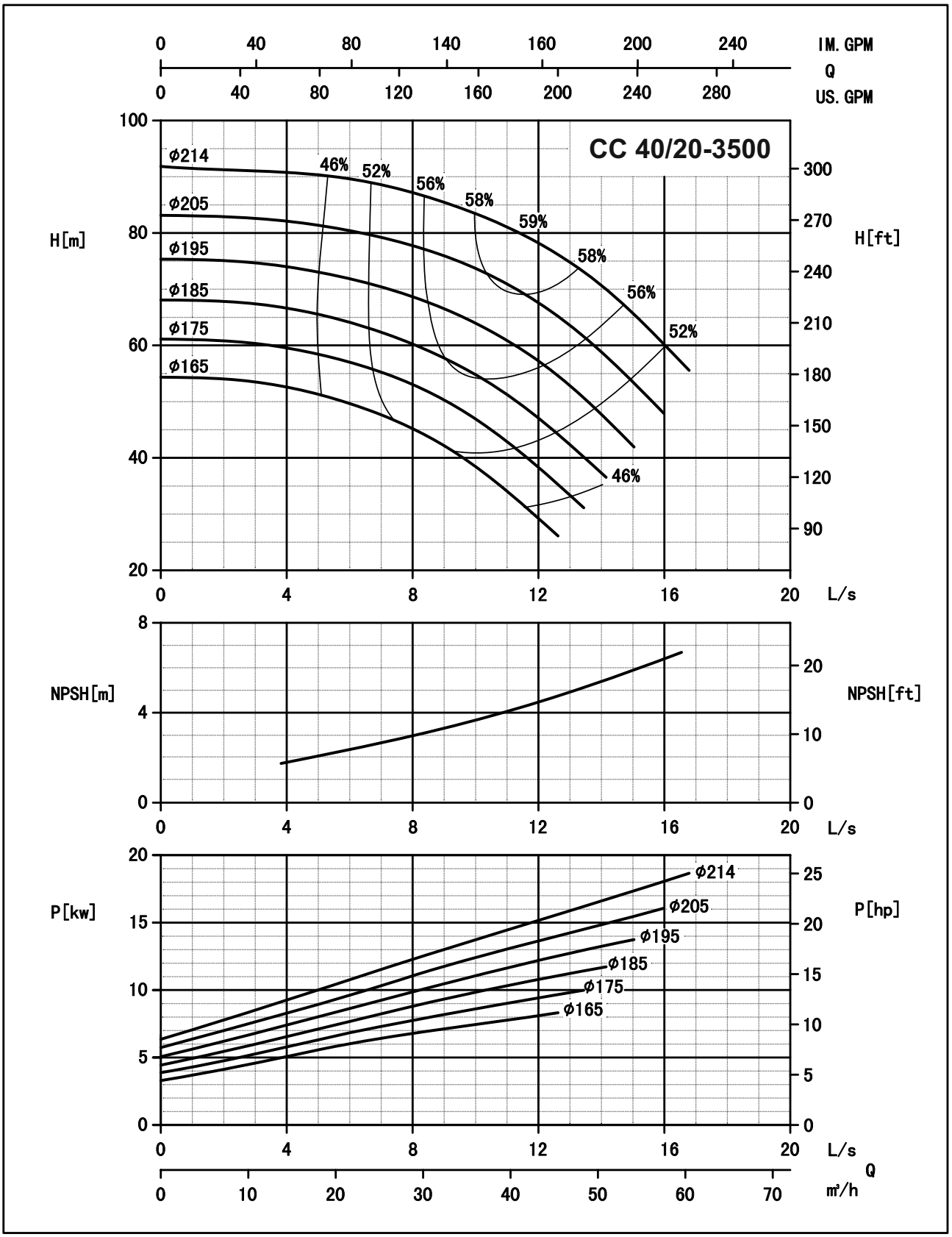

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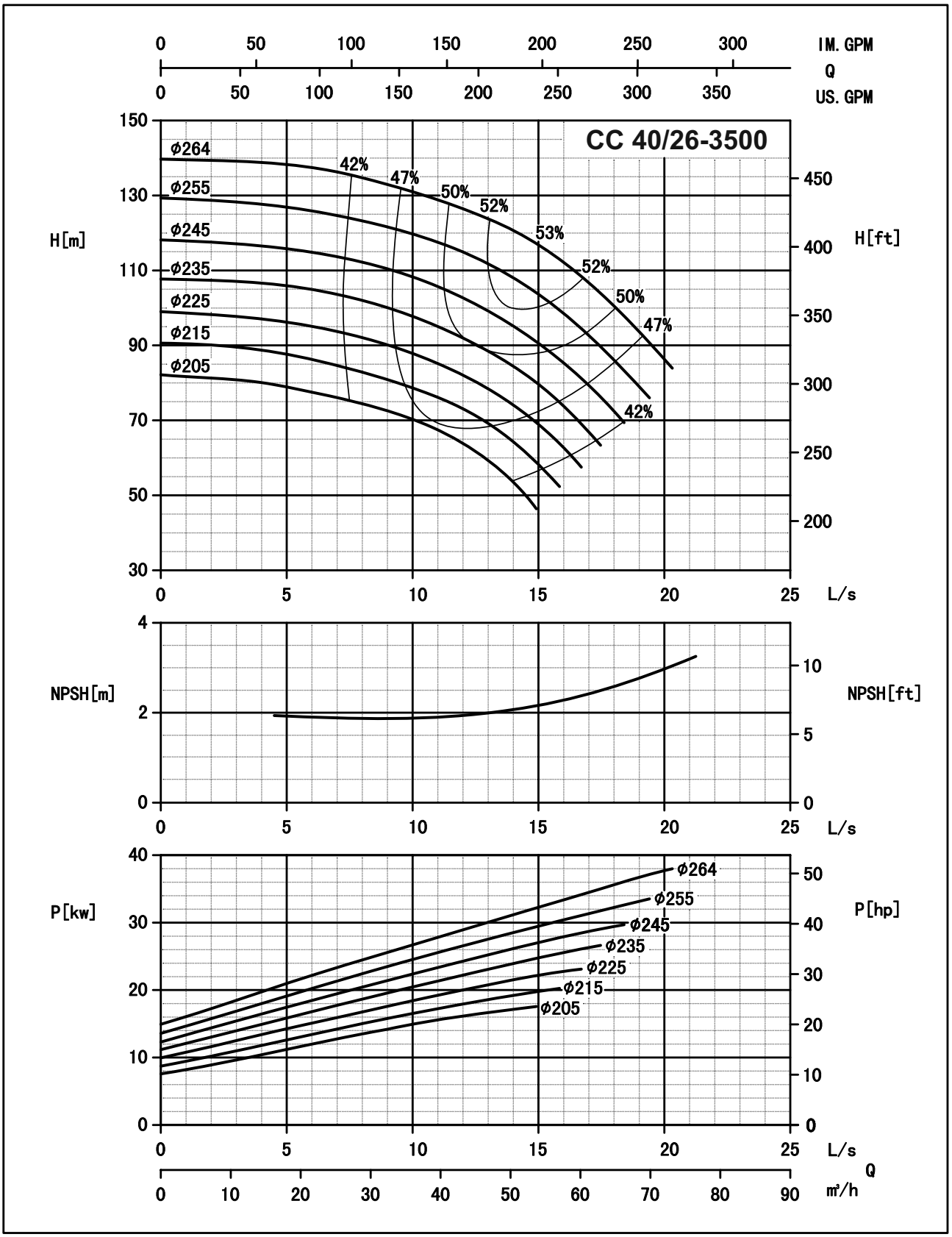

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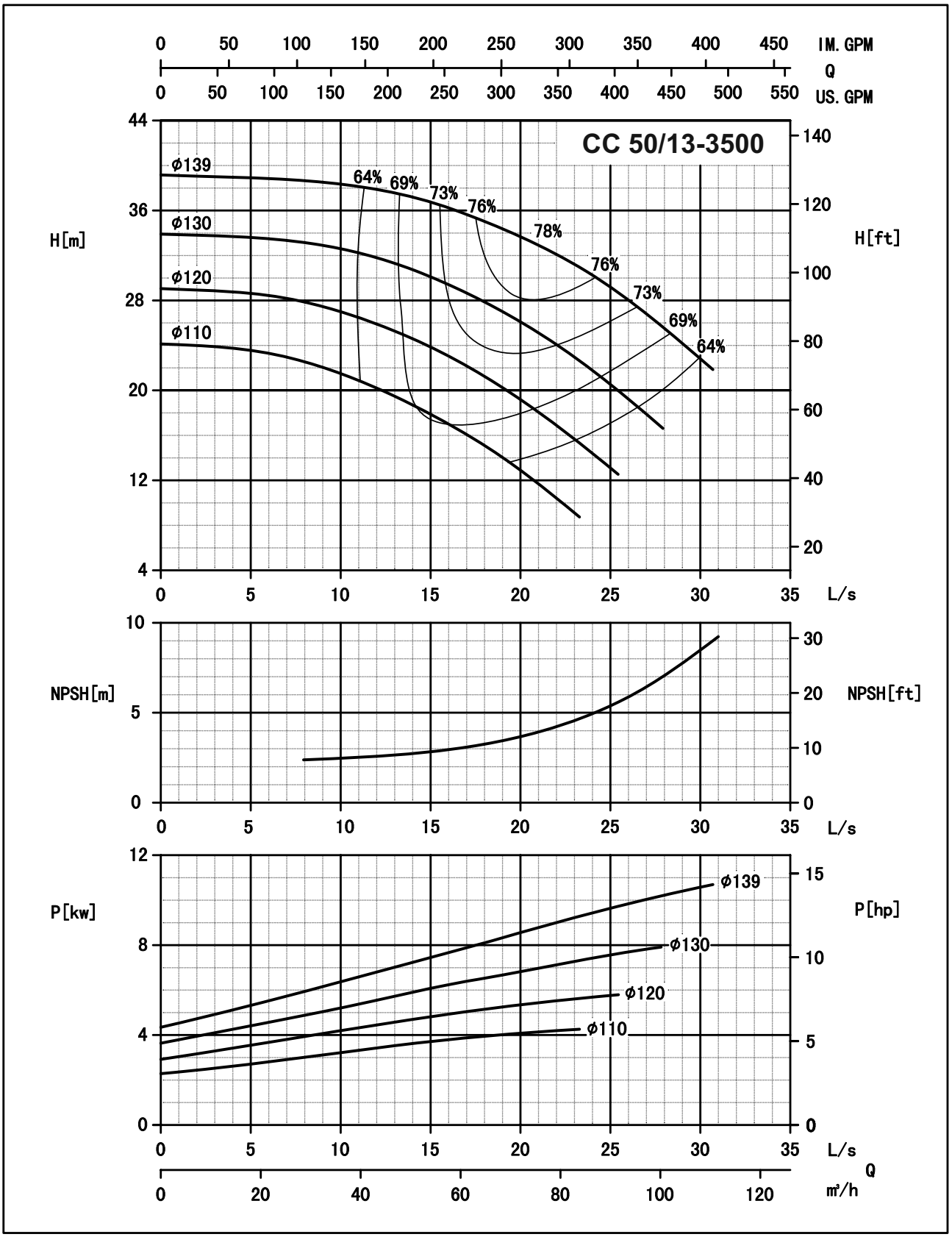

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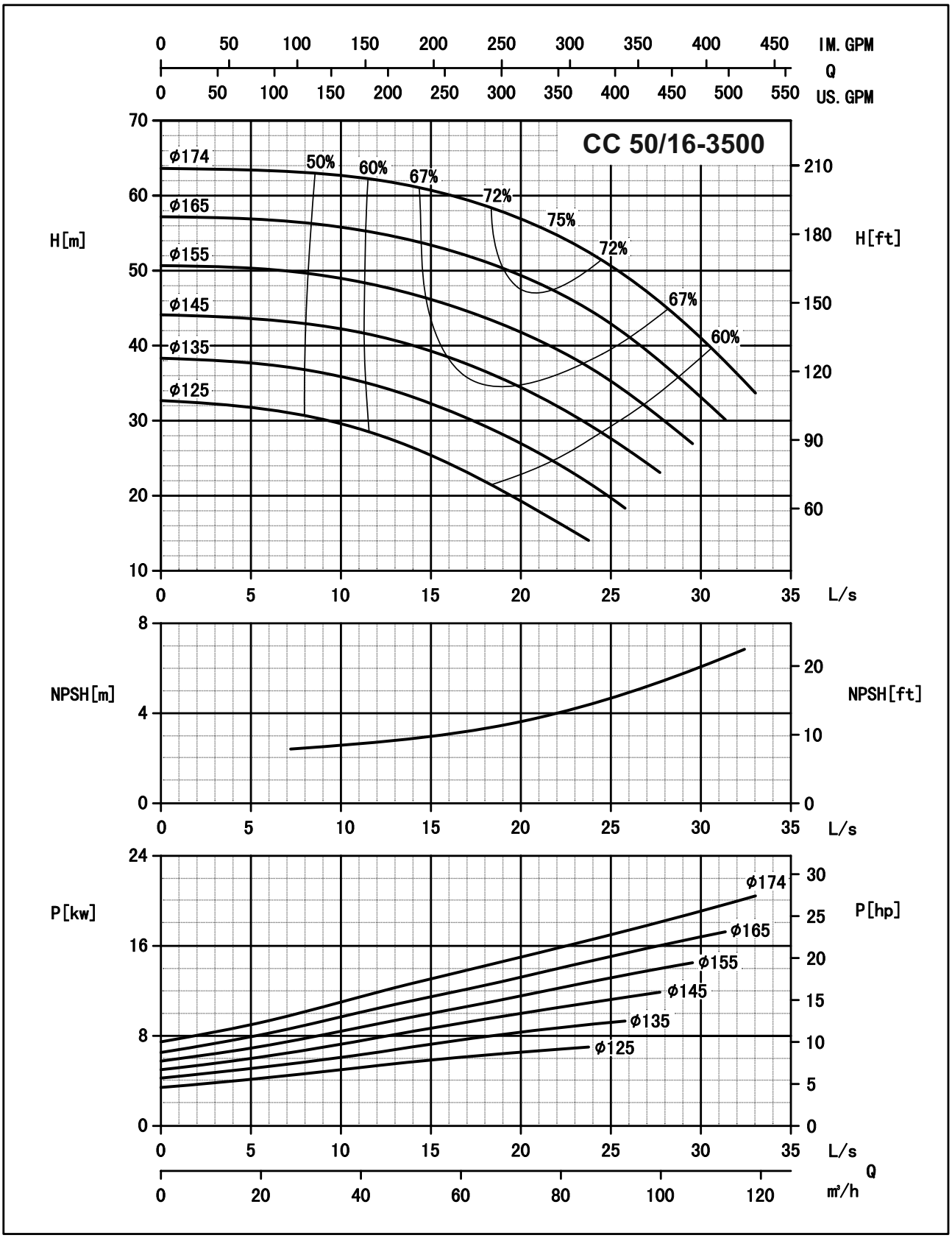

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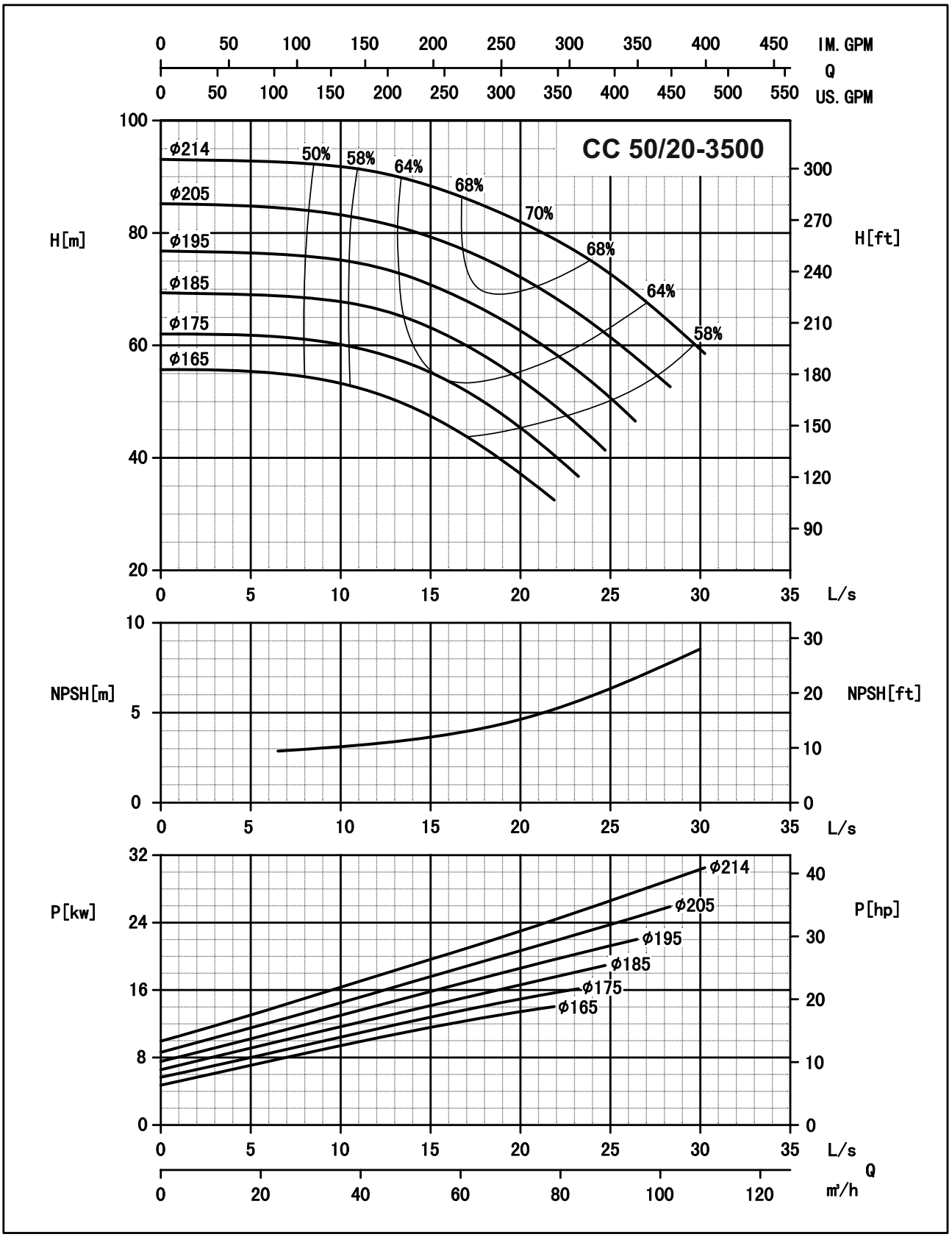

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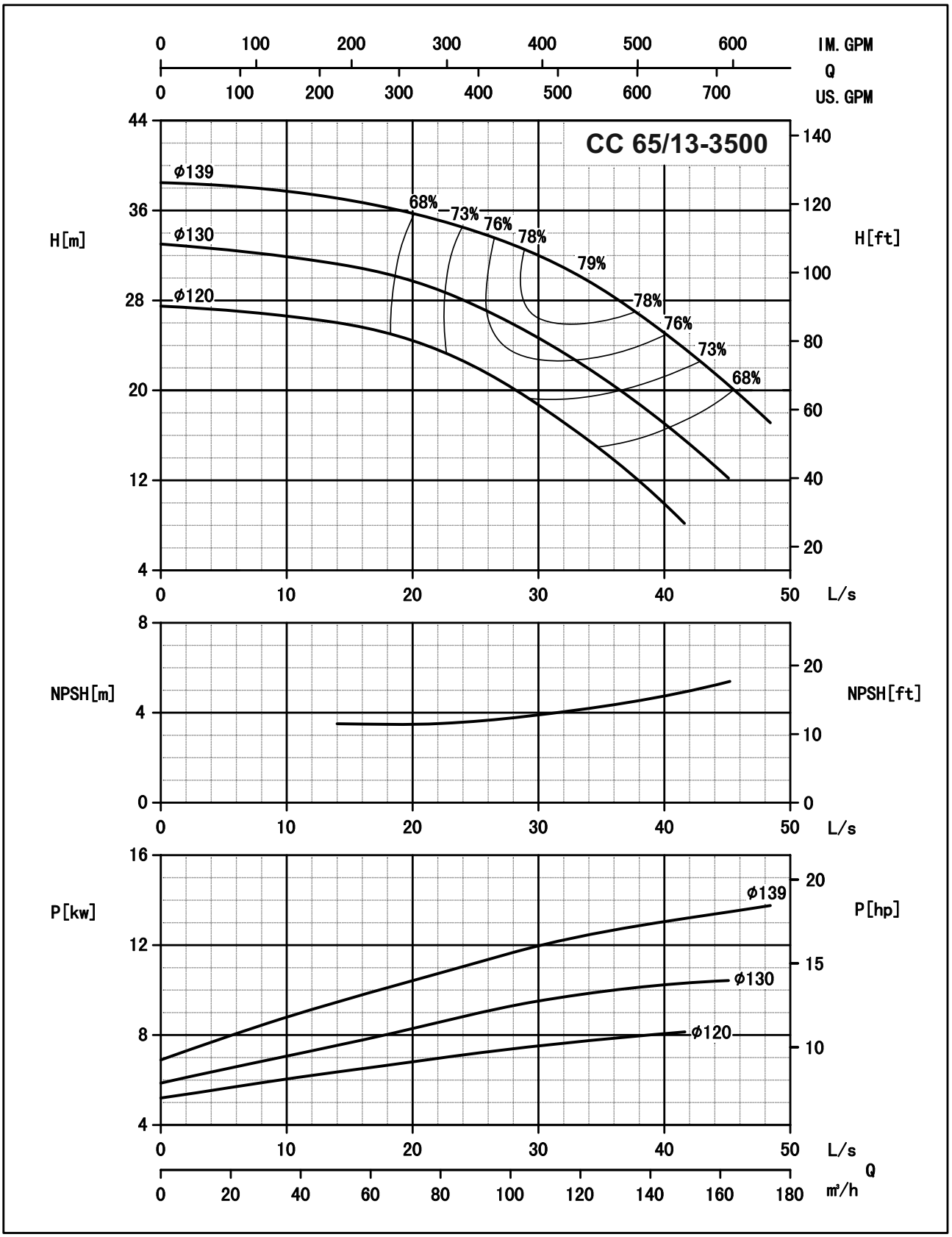

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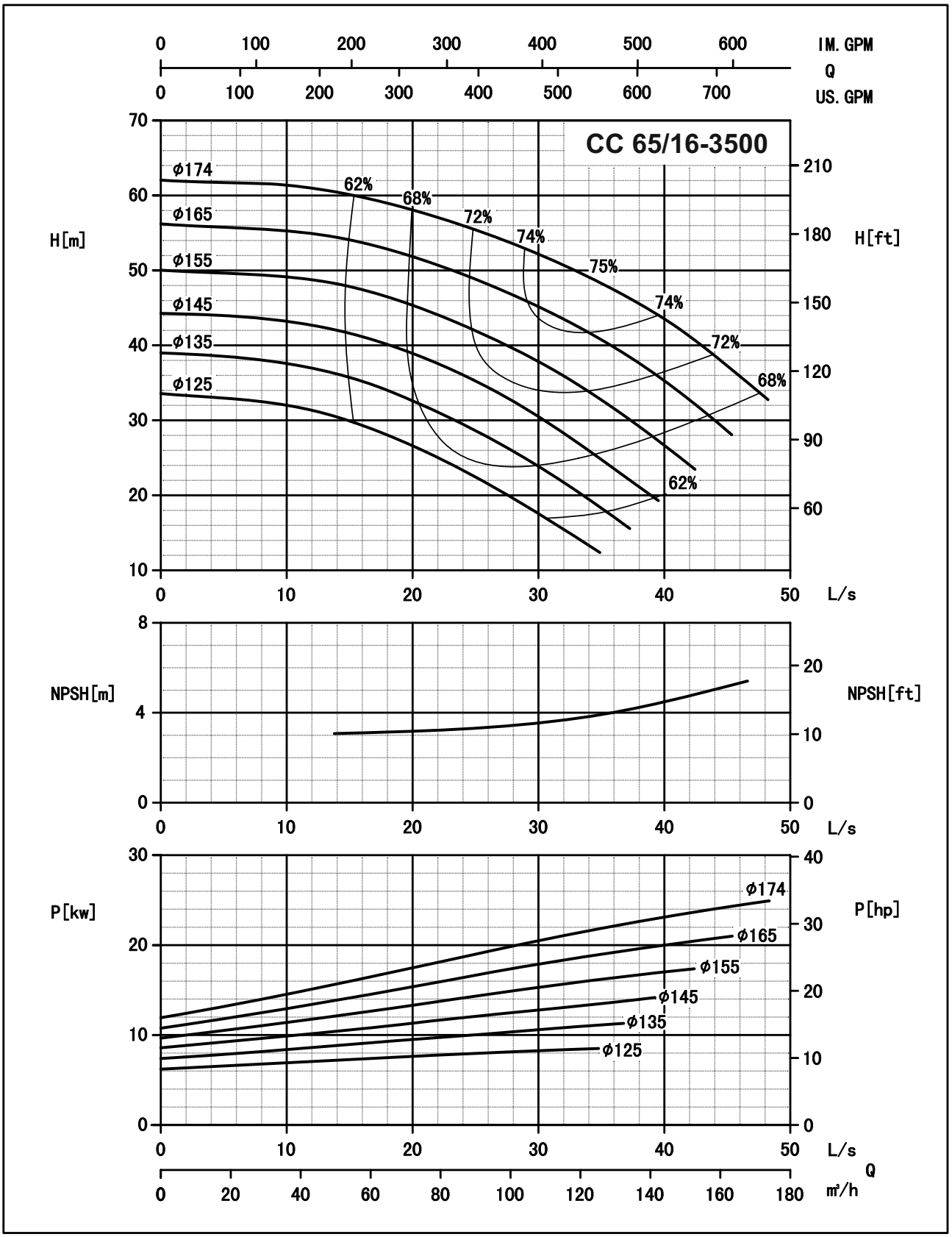

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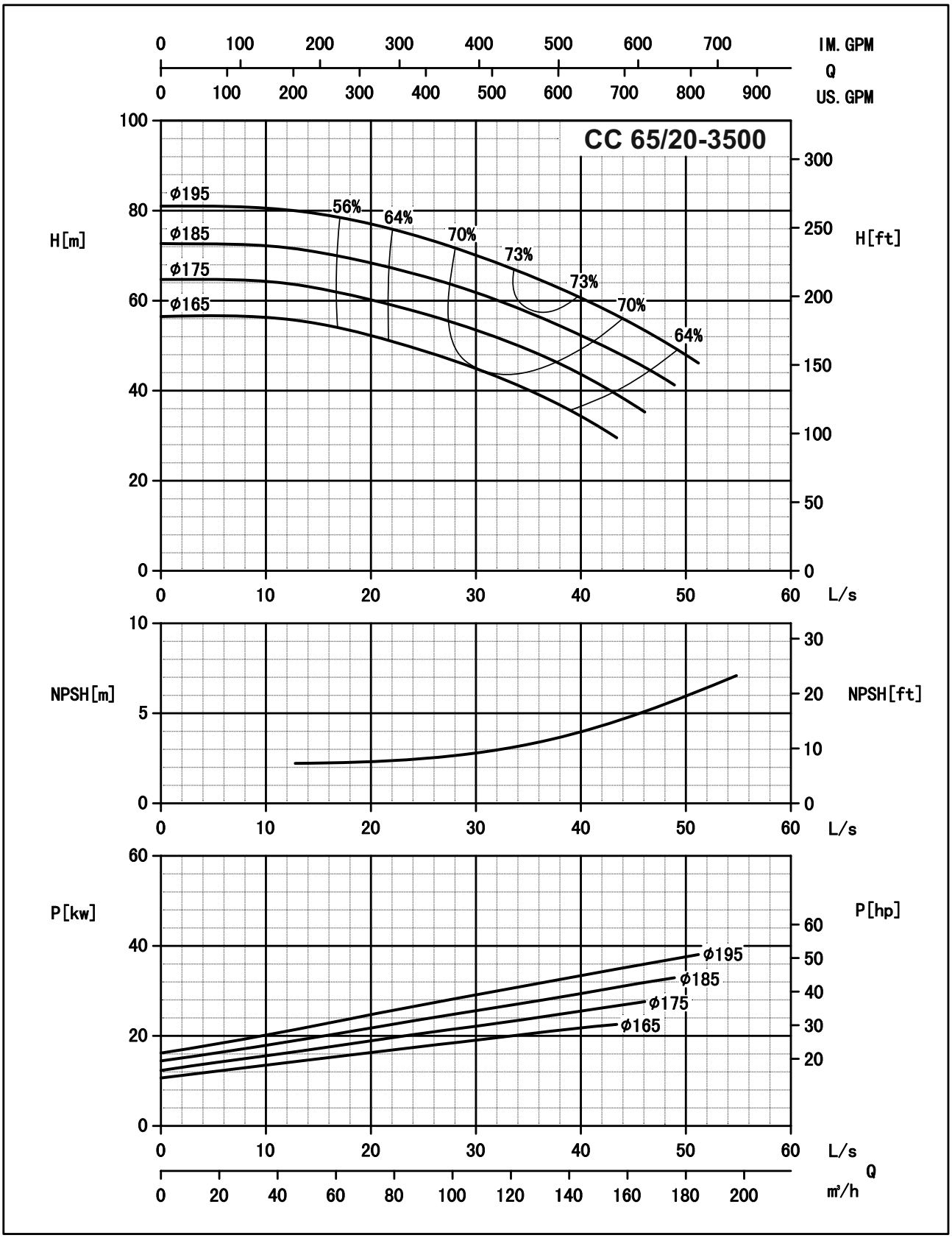

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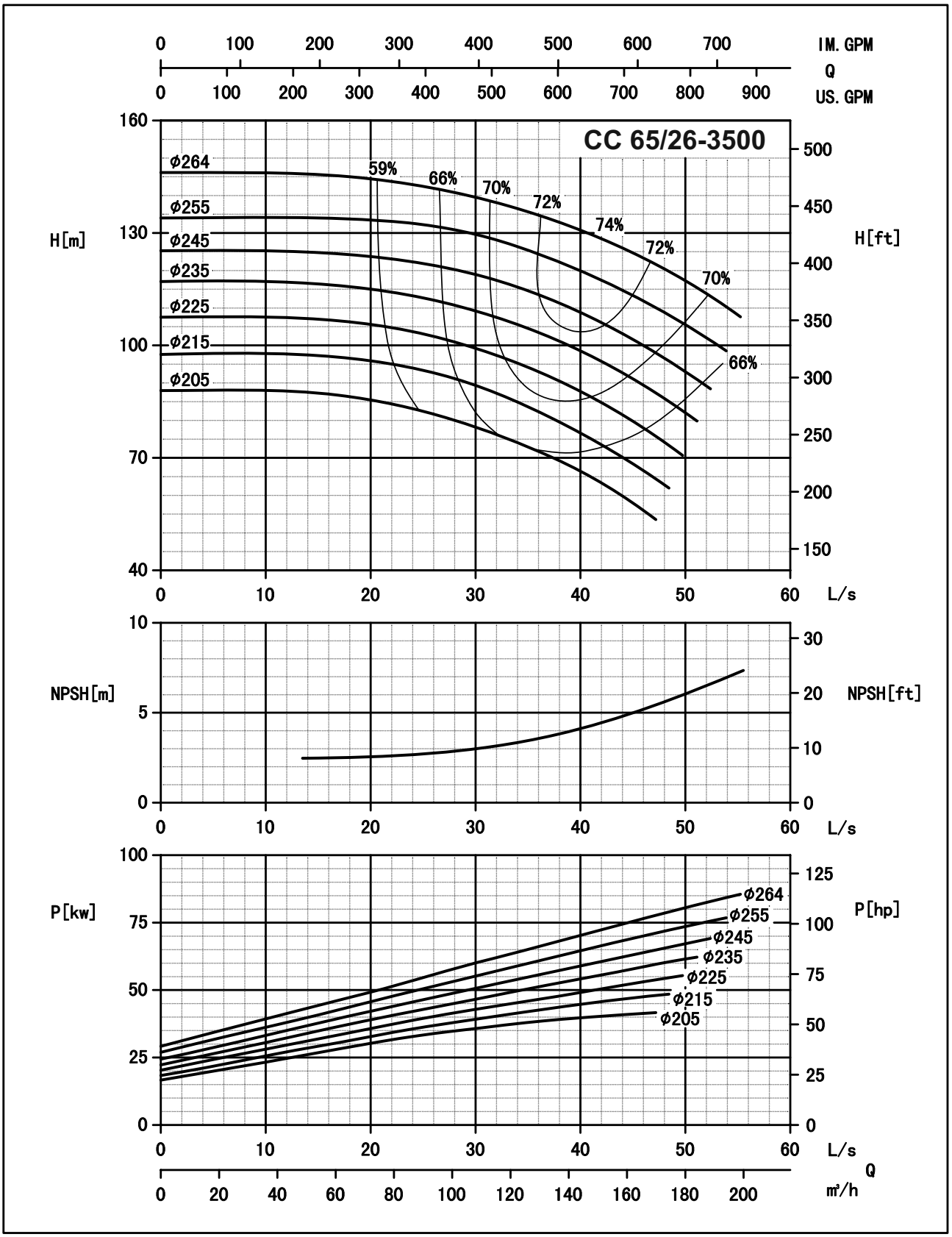

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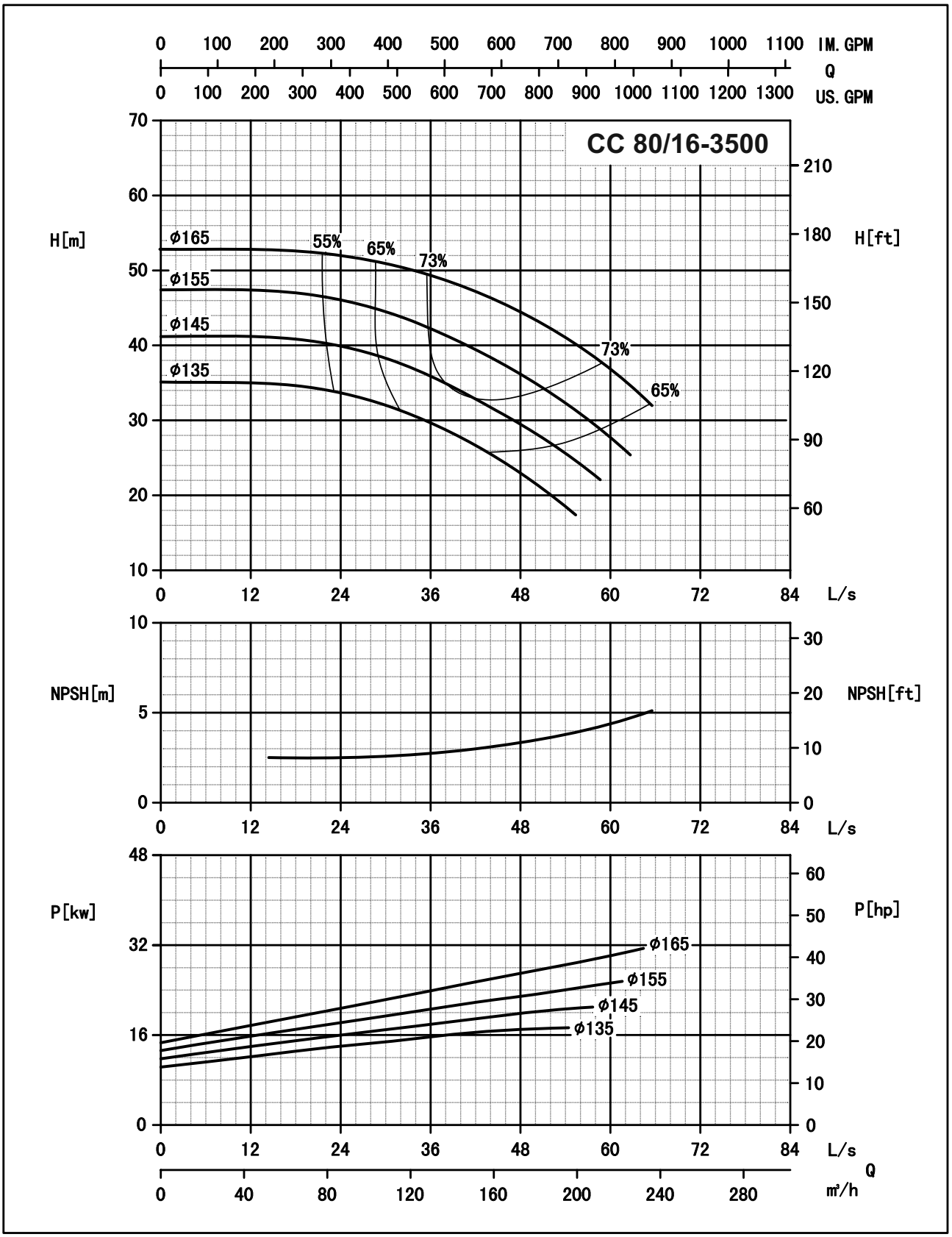

Performance Curves

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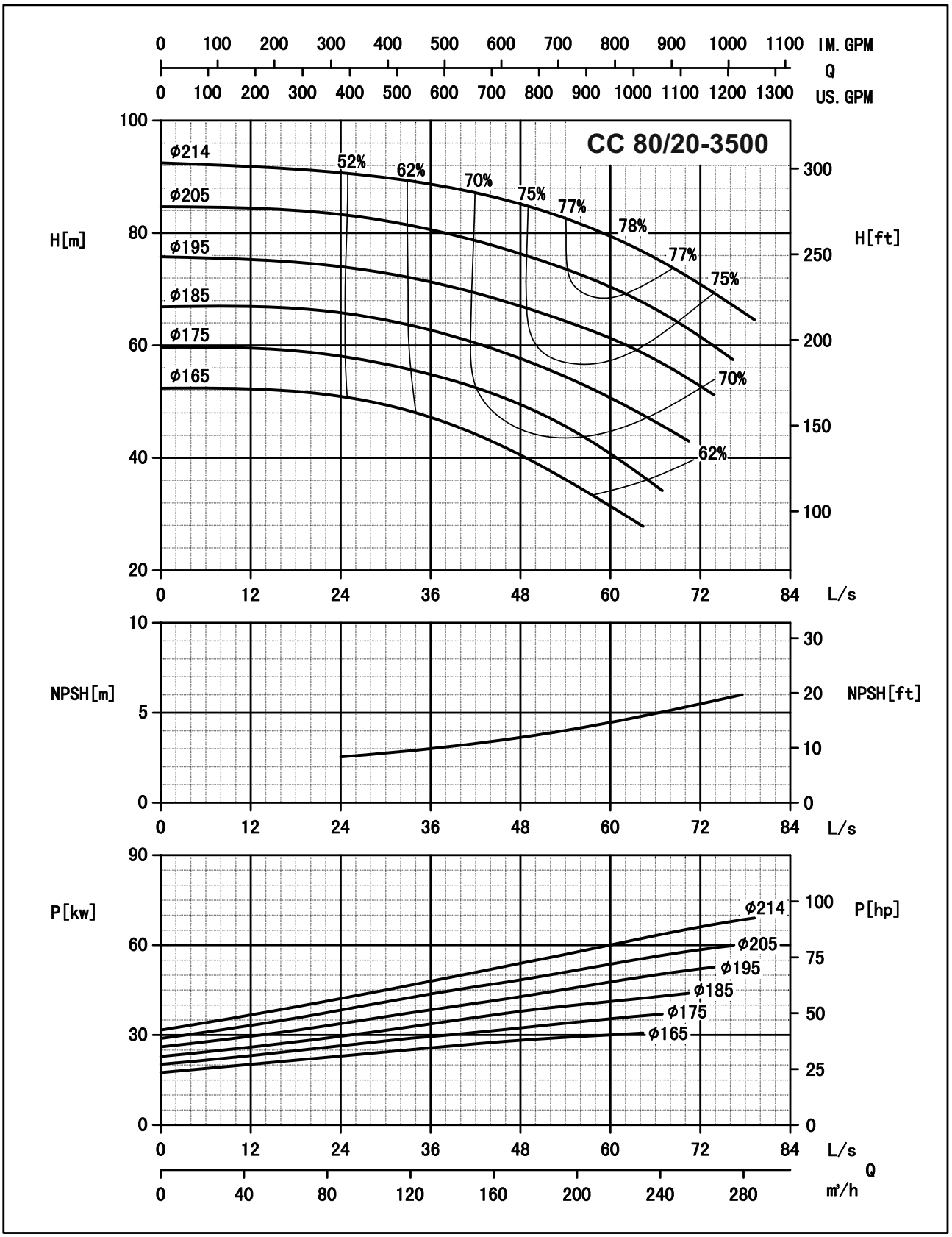

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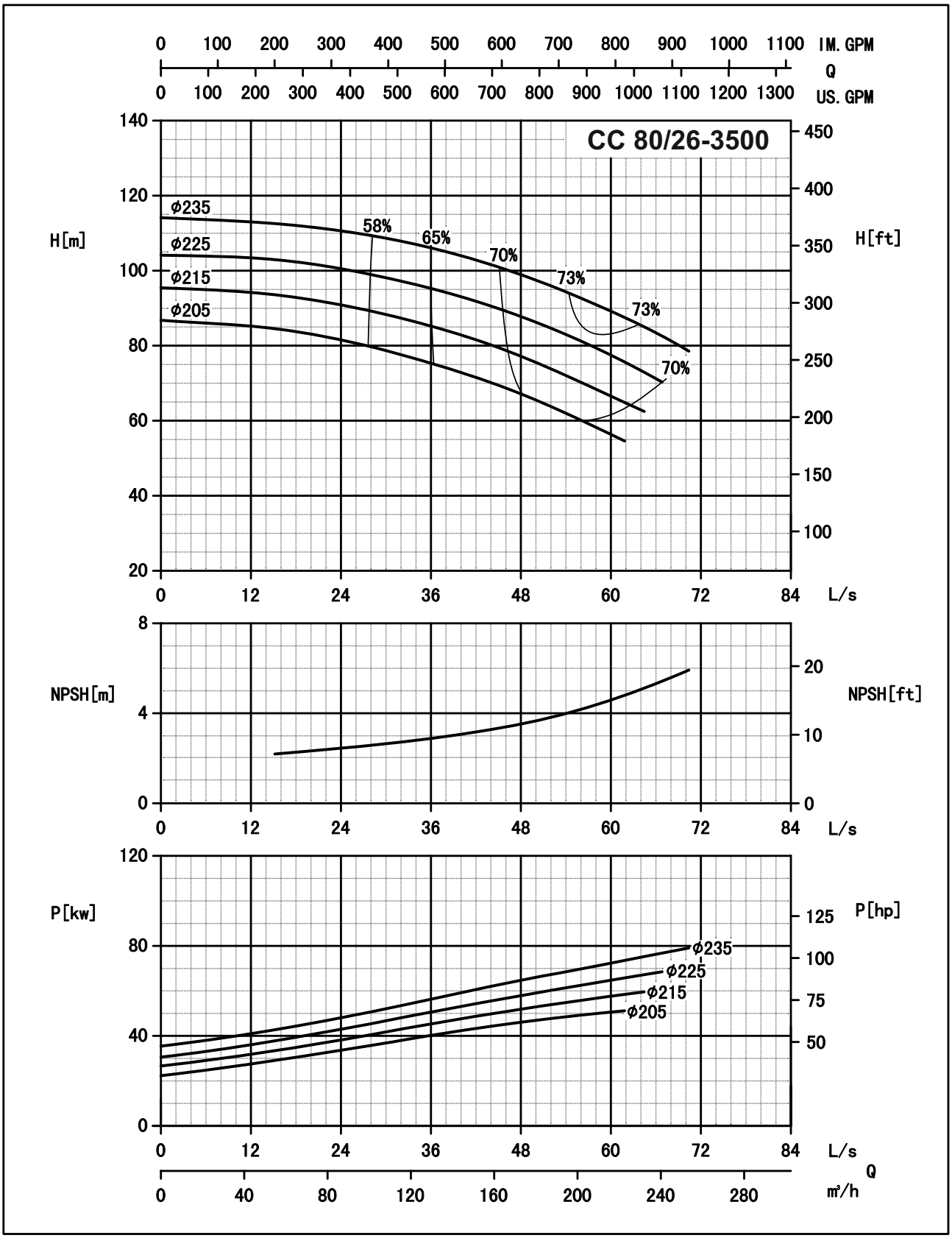

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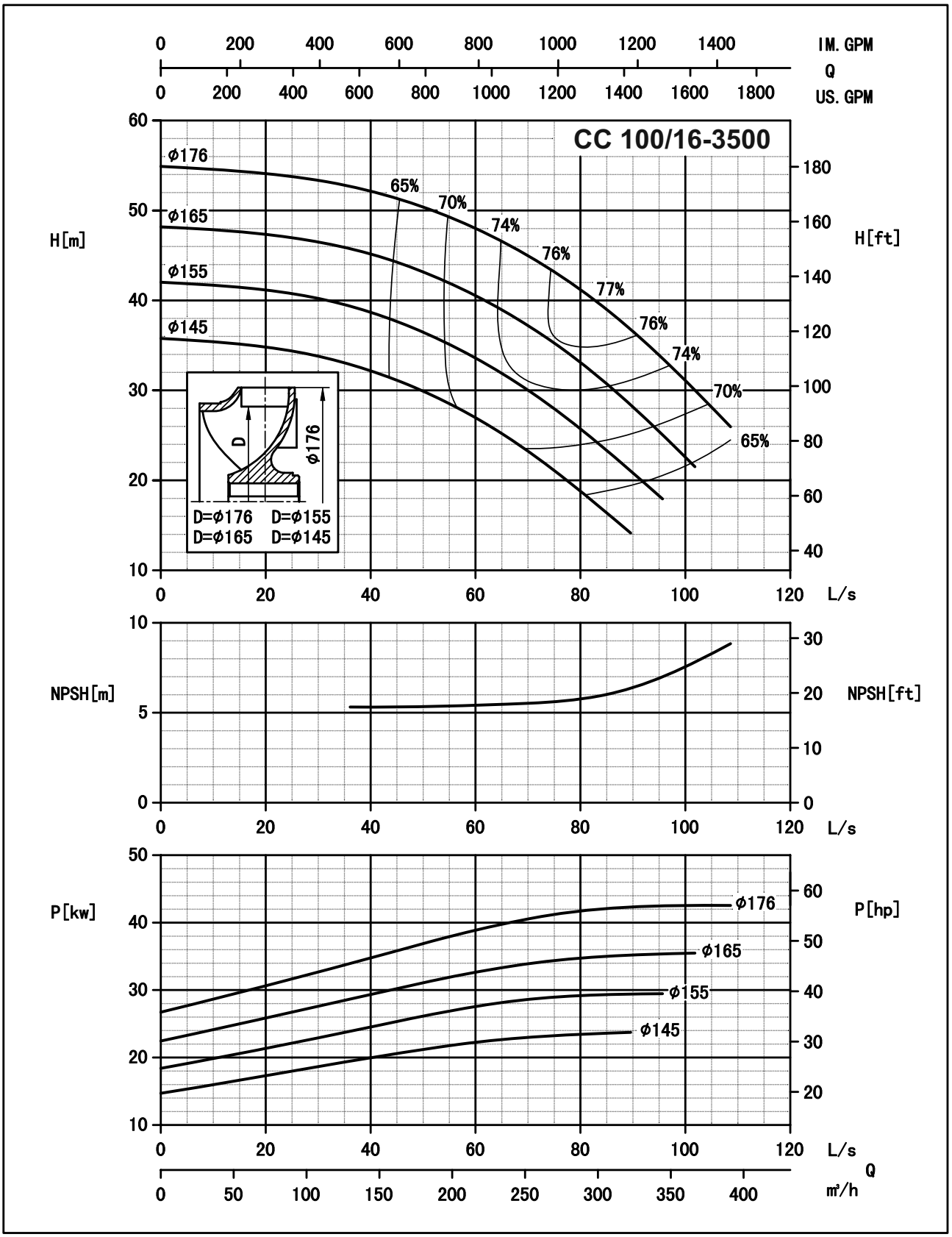

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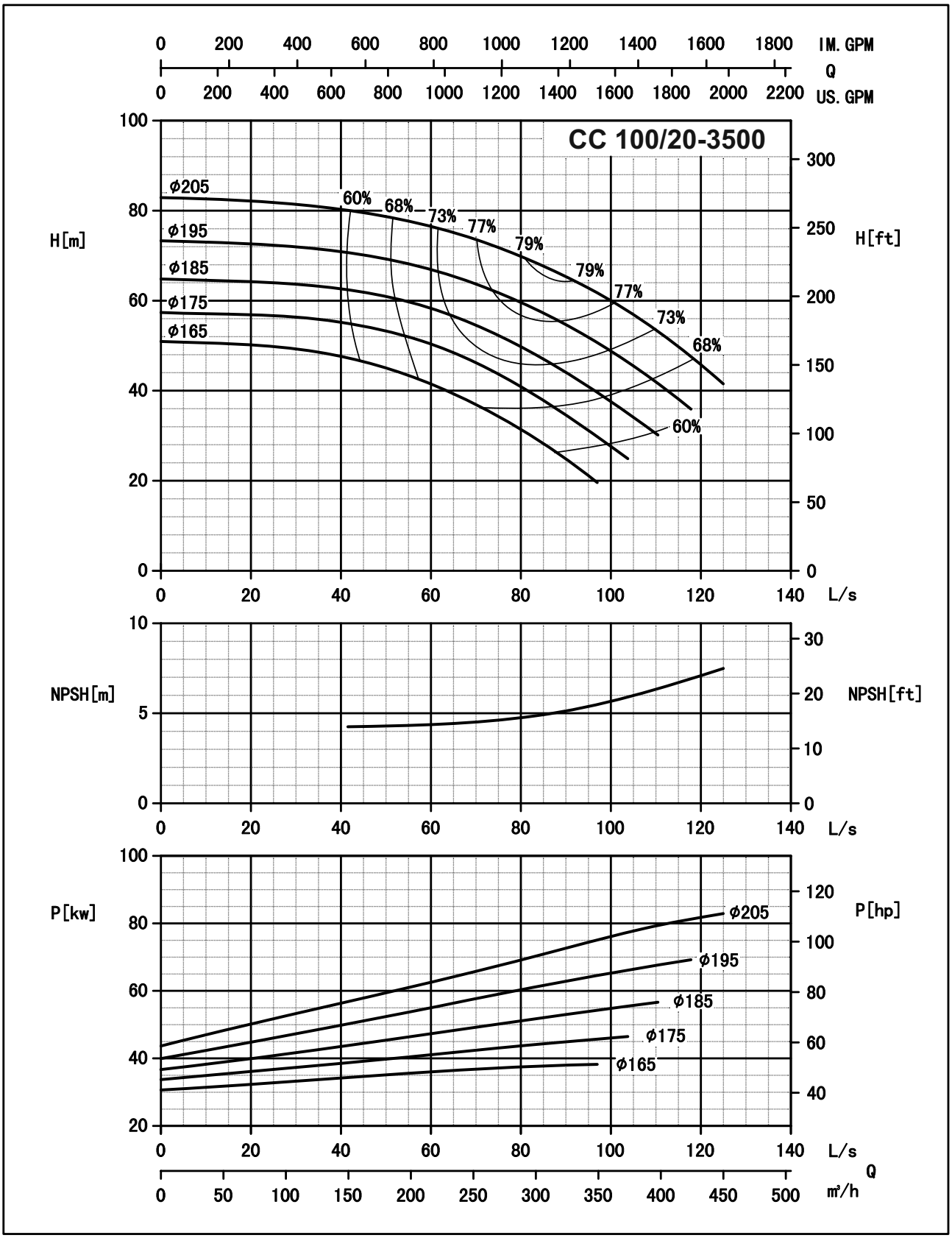

Performance Curves

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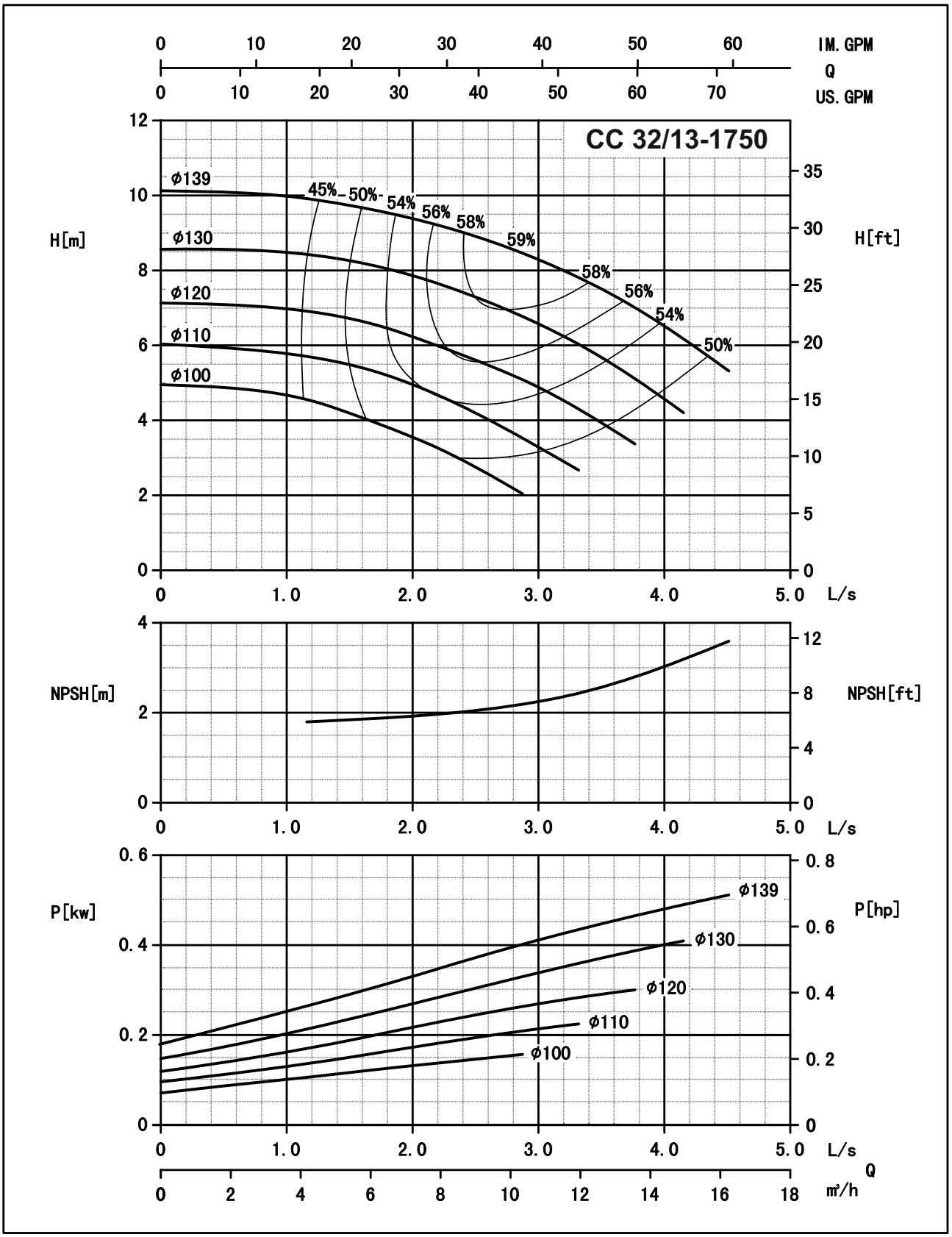

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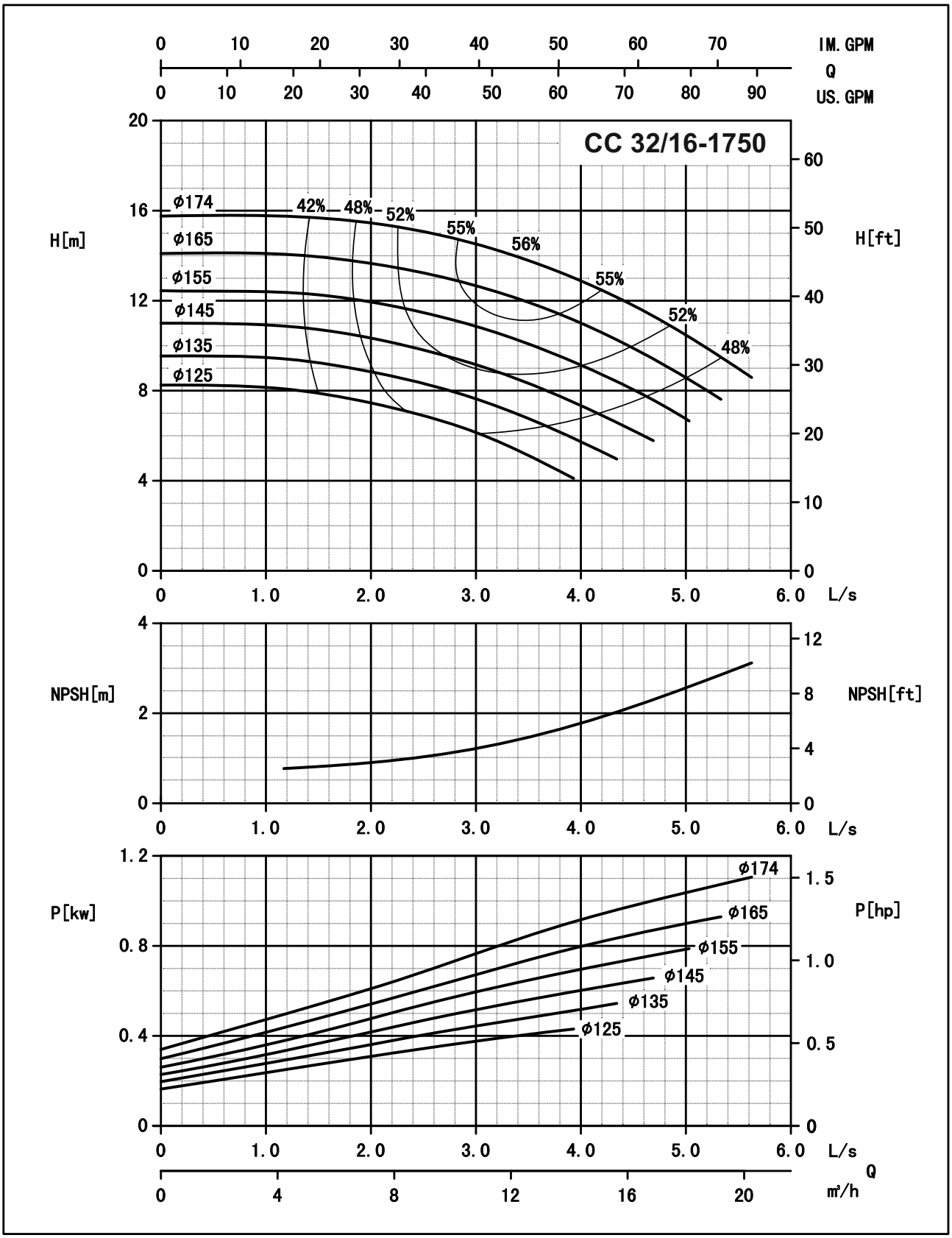

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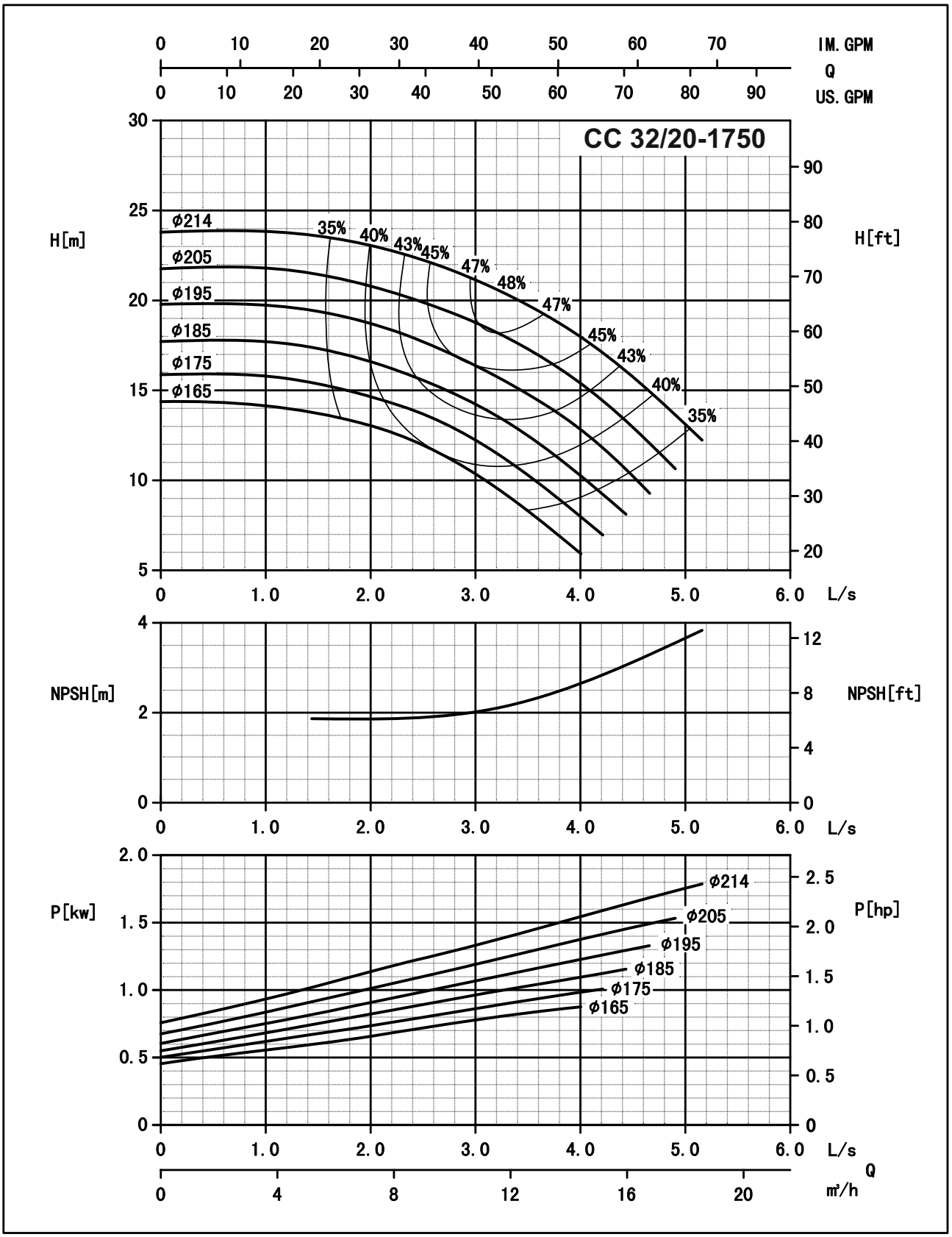

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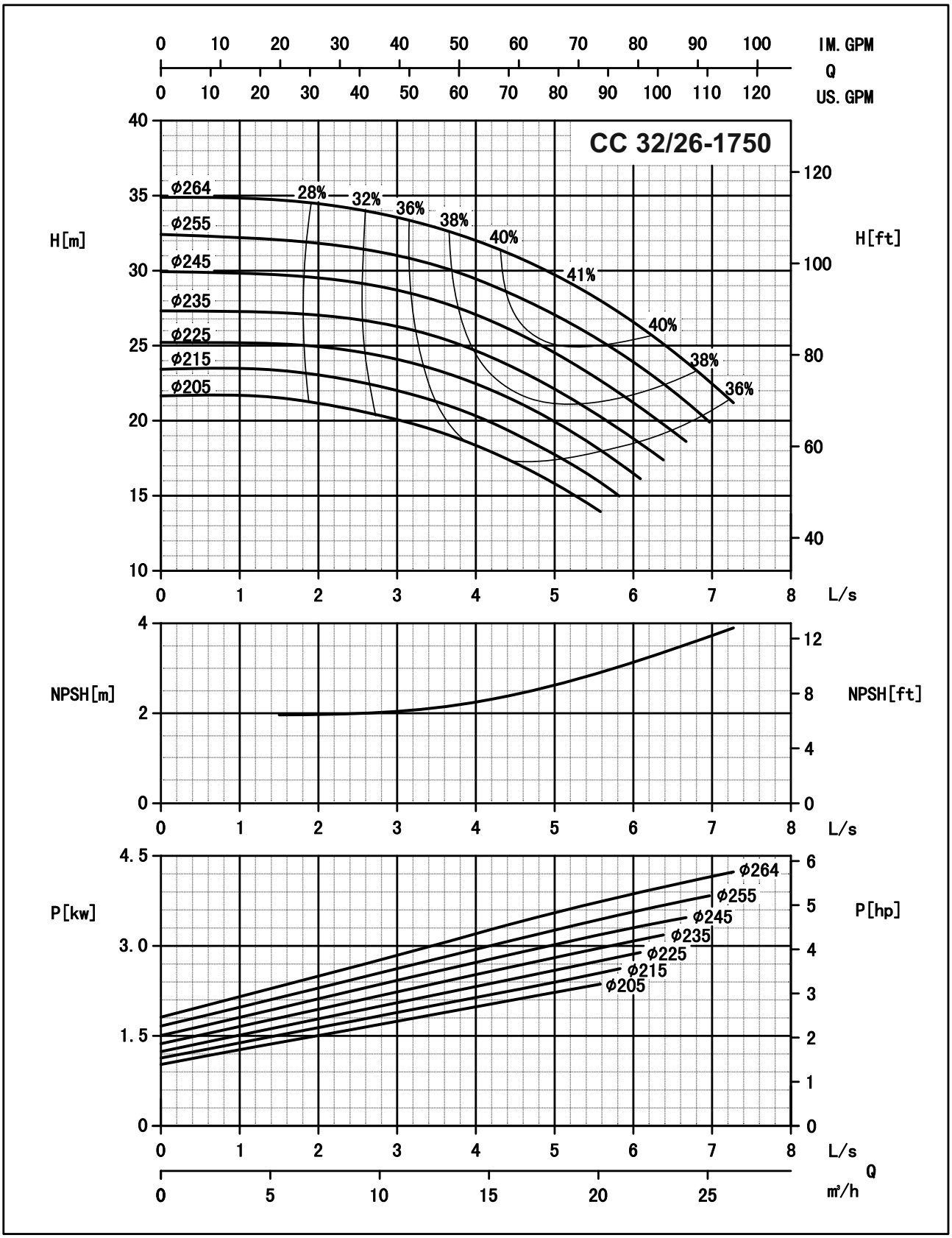

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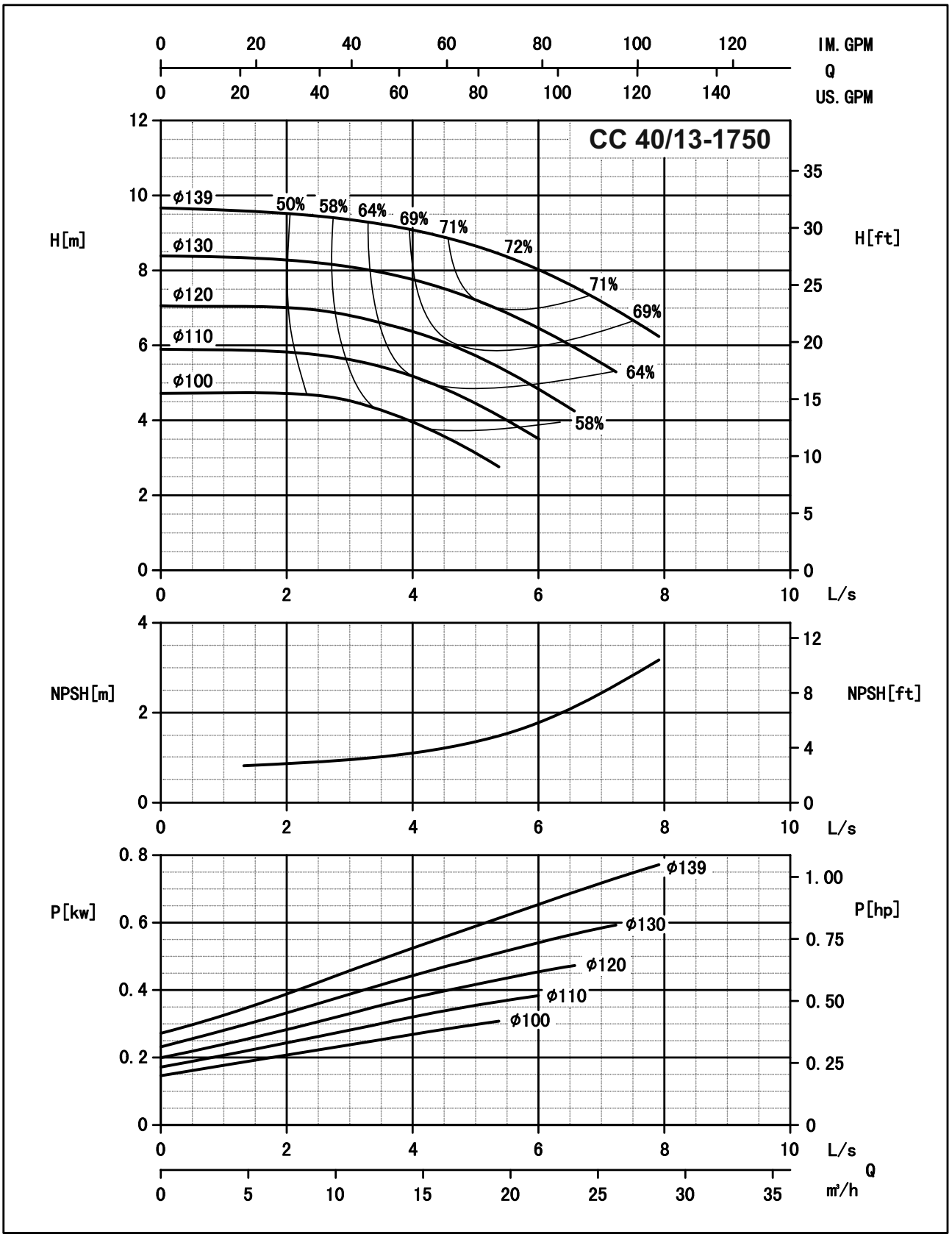

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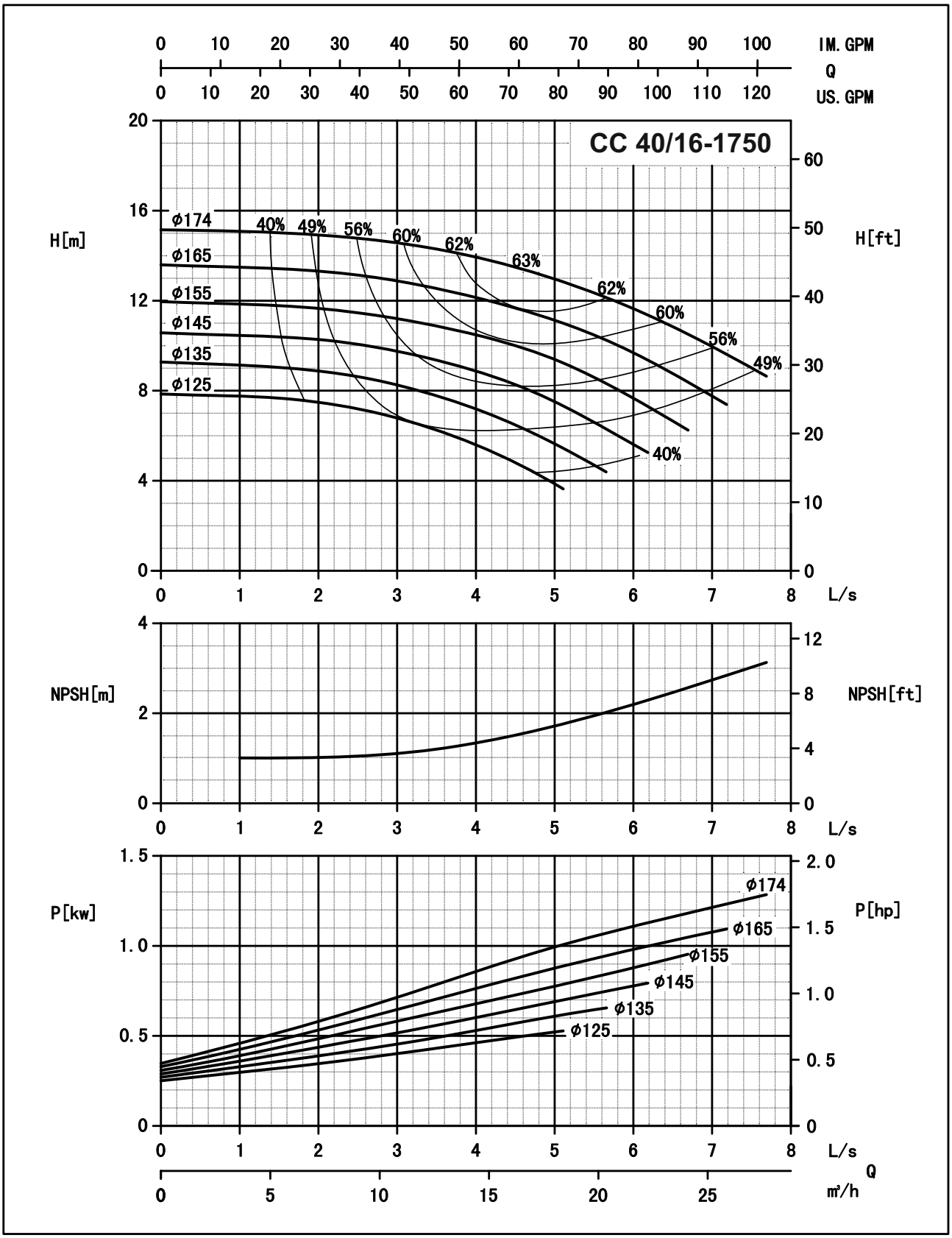

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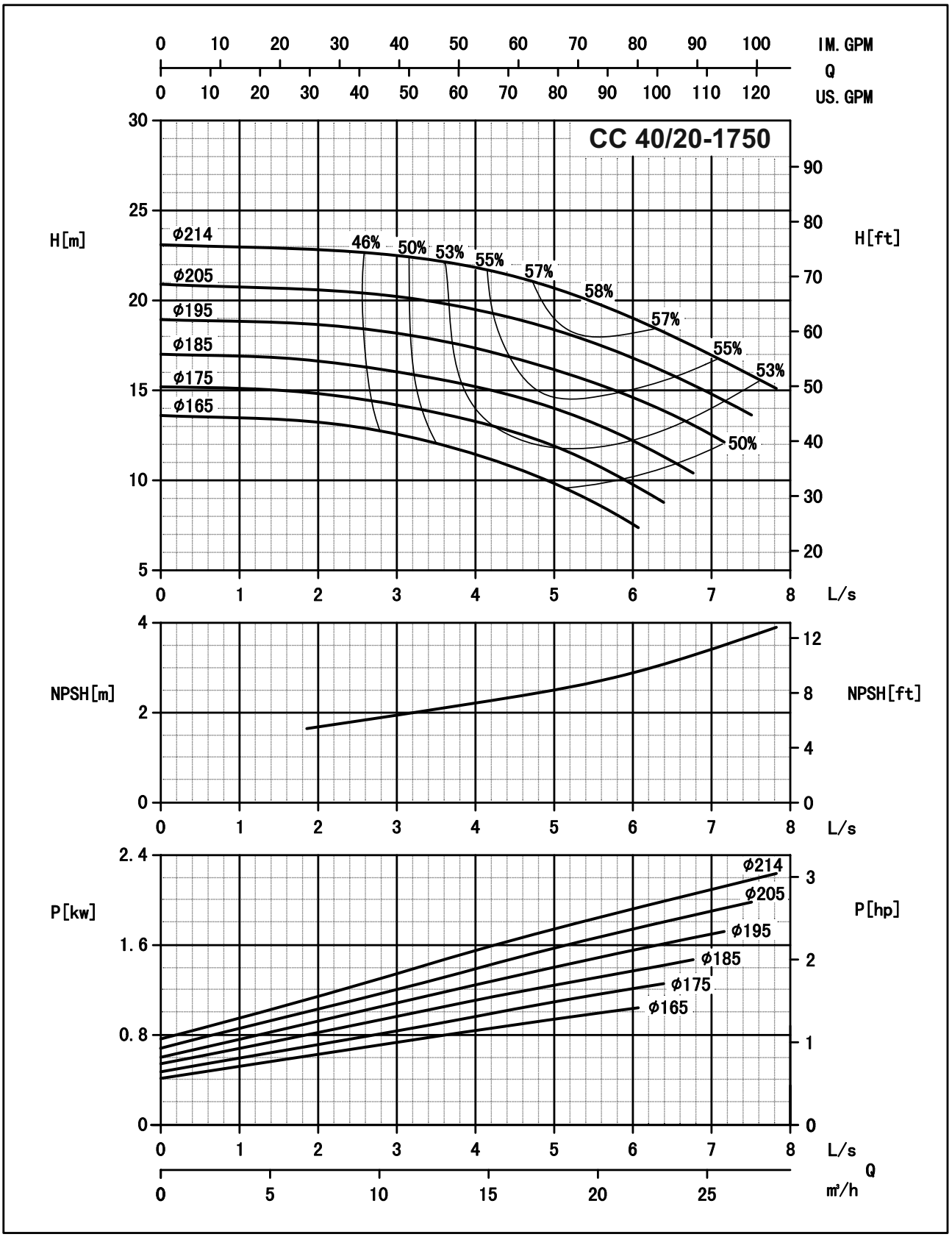

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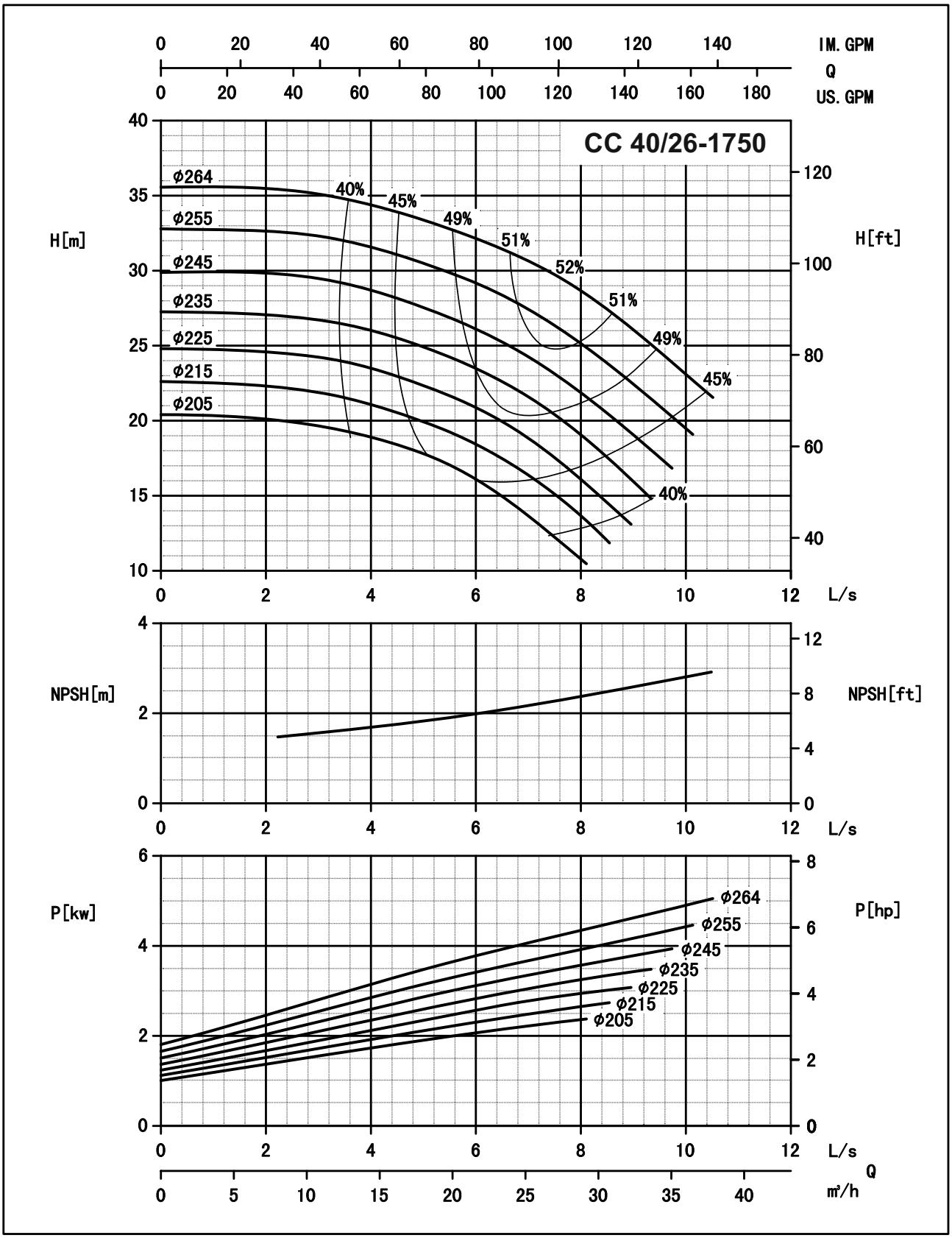

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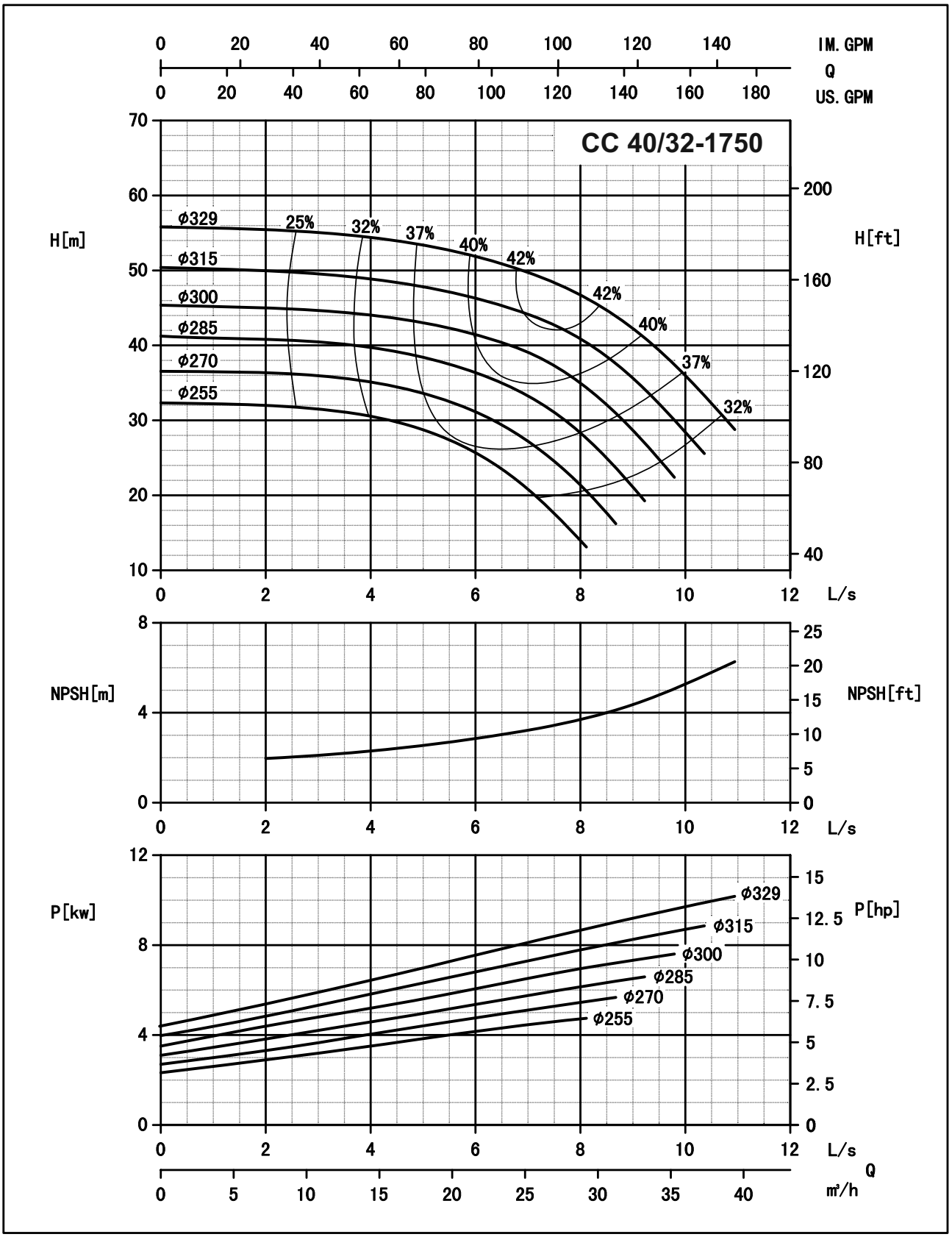

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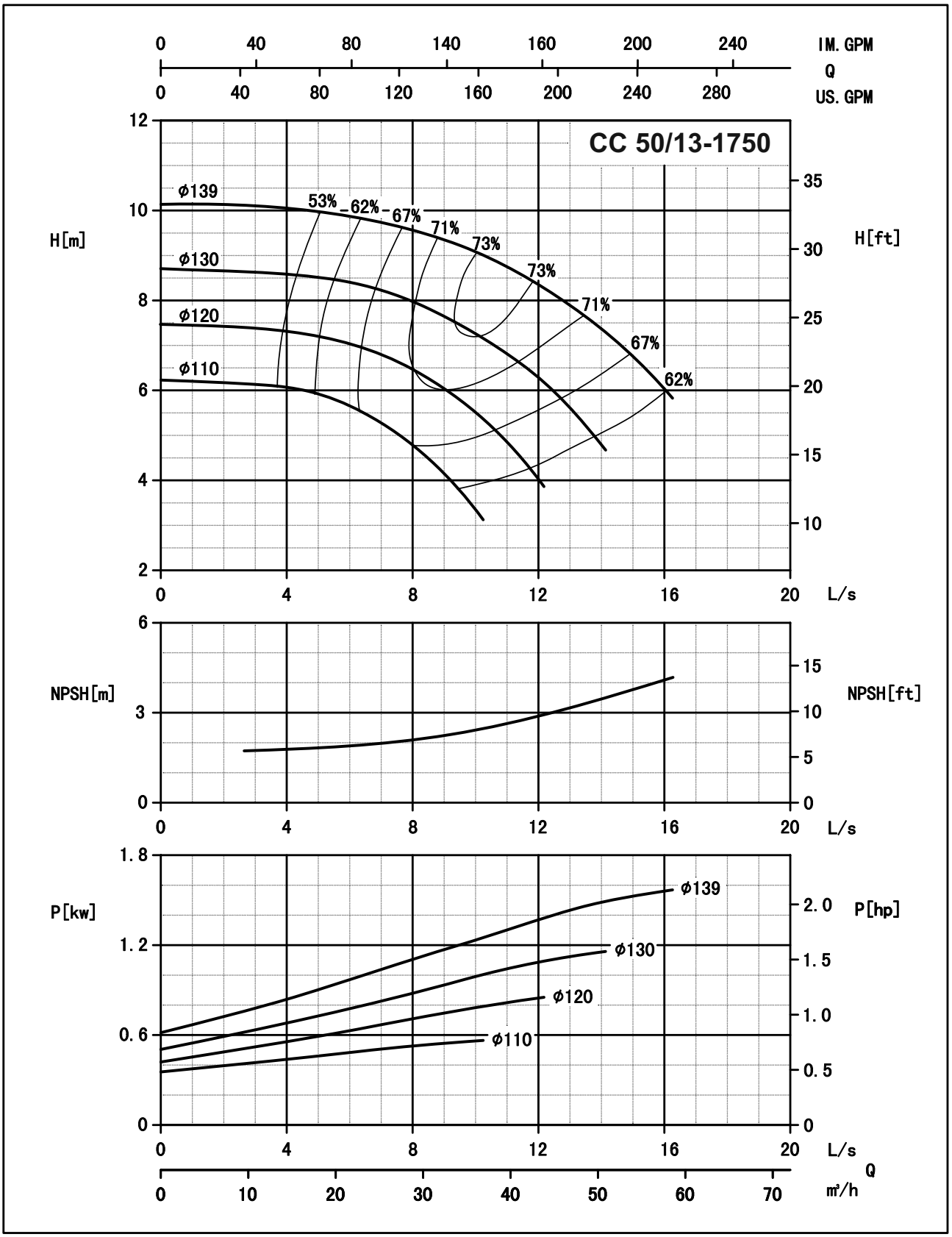

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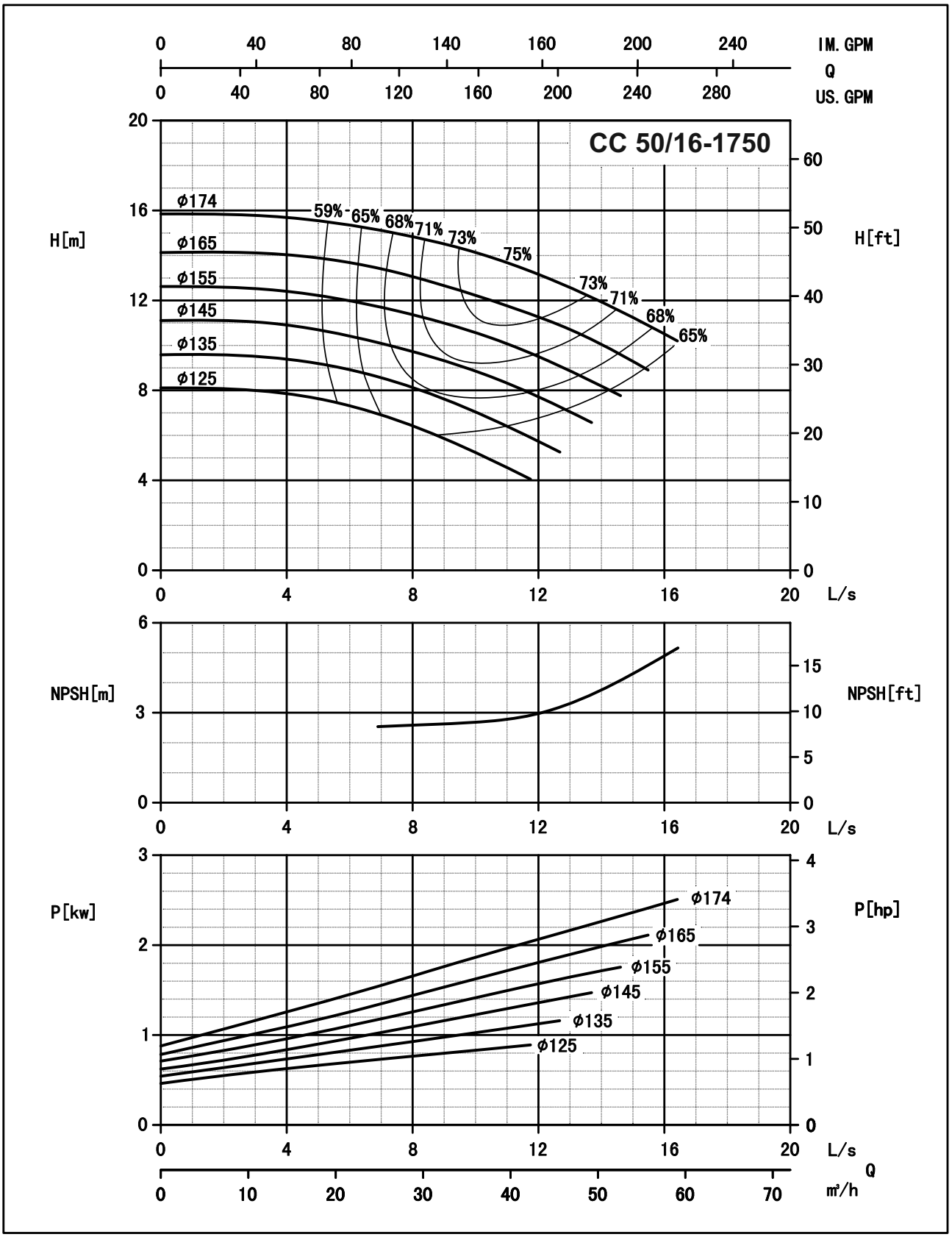

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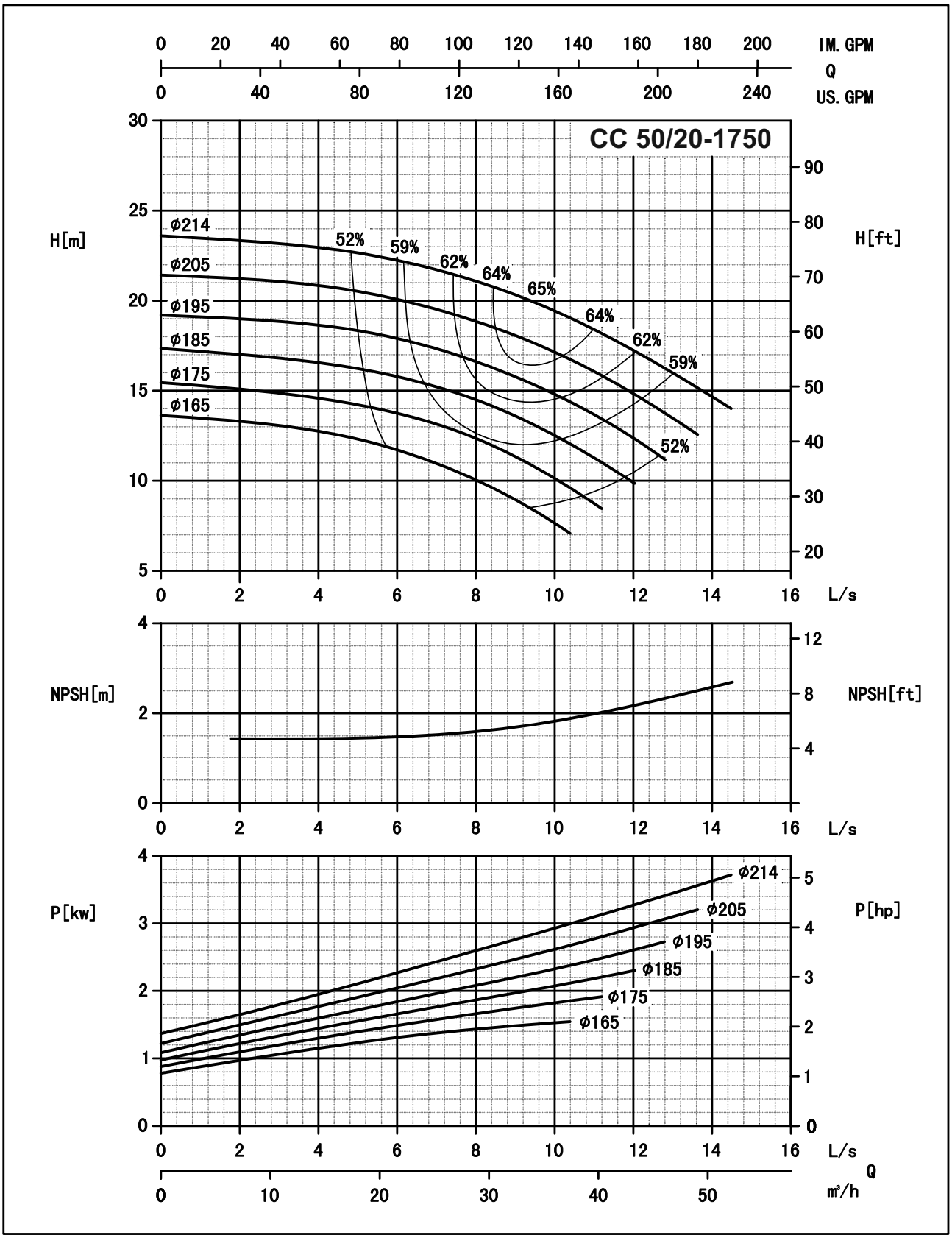

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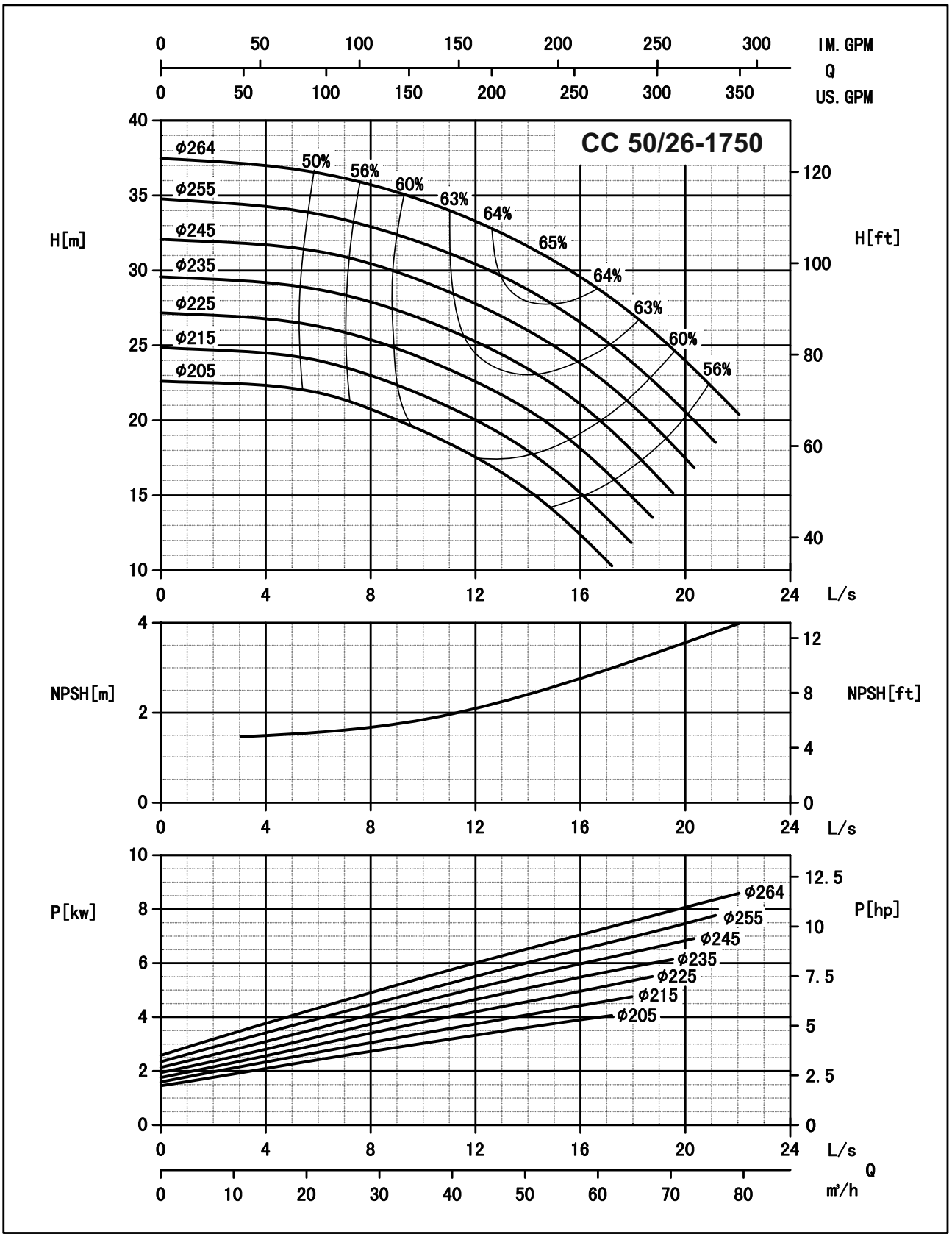

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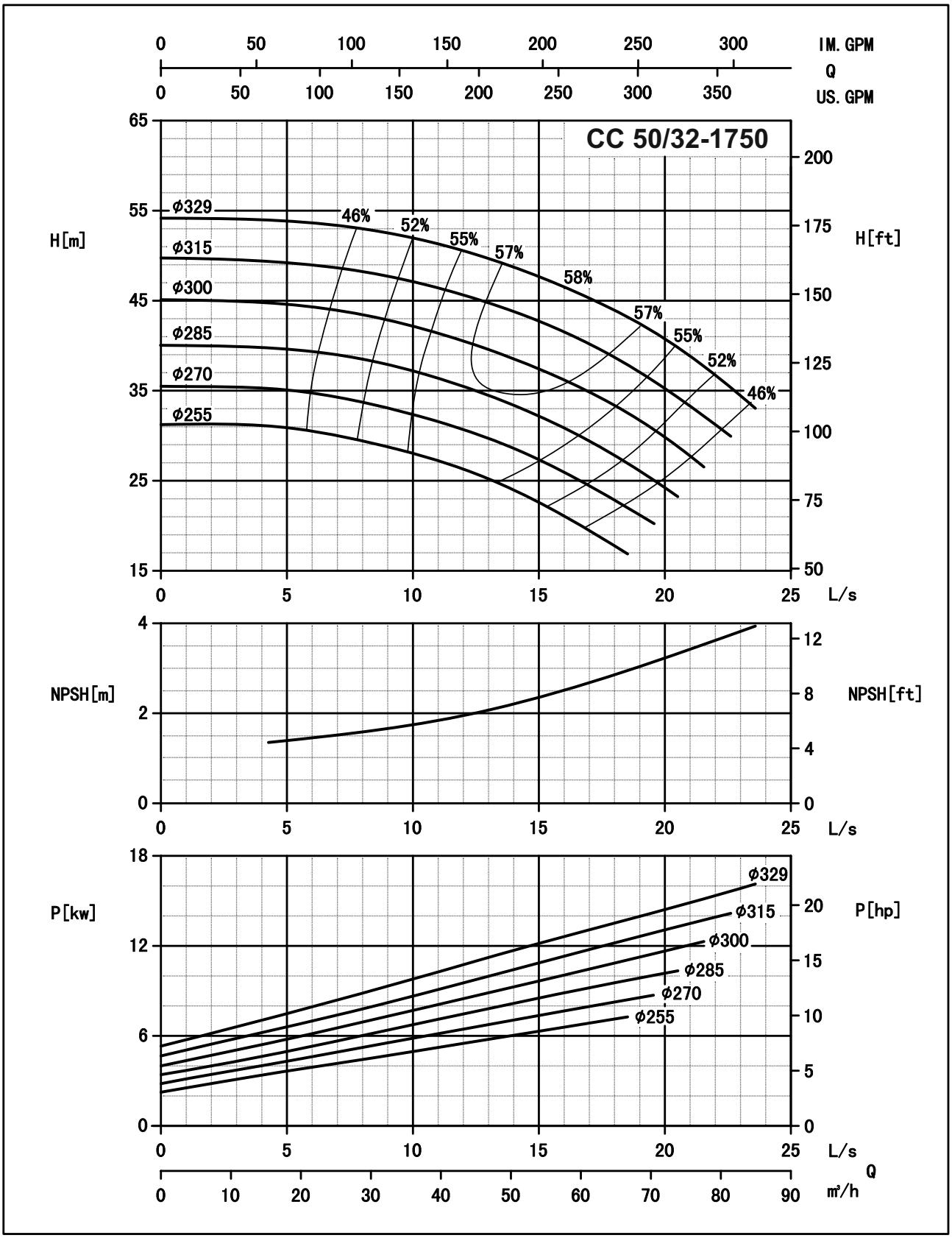

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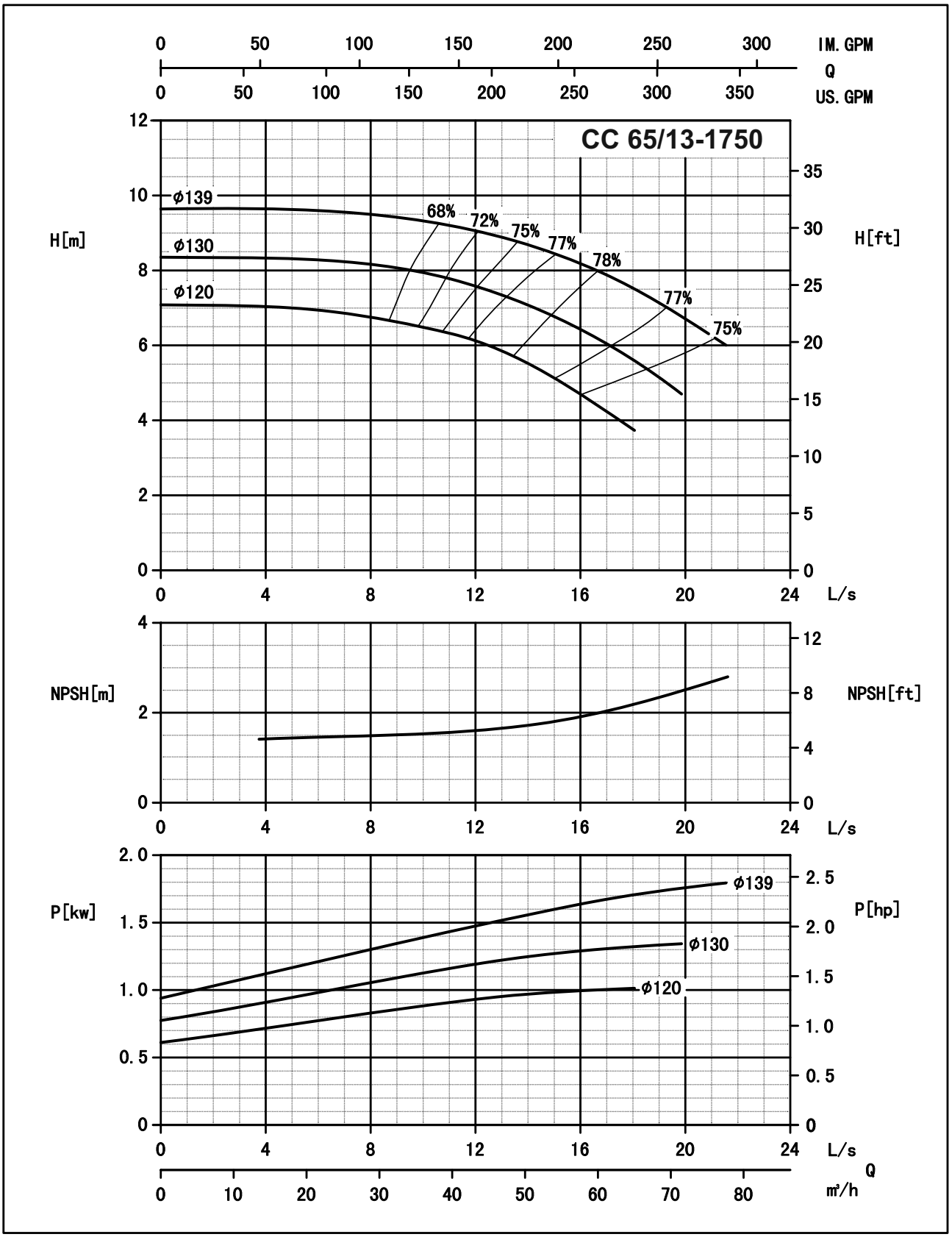

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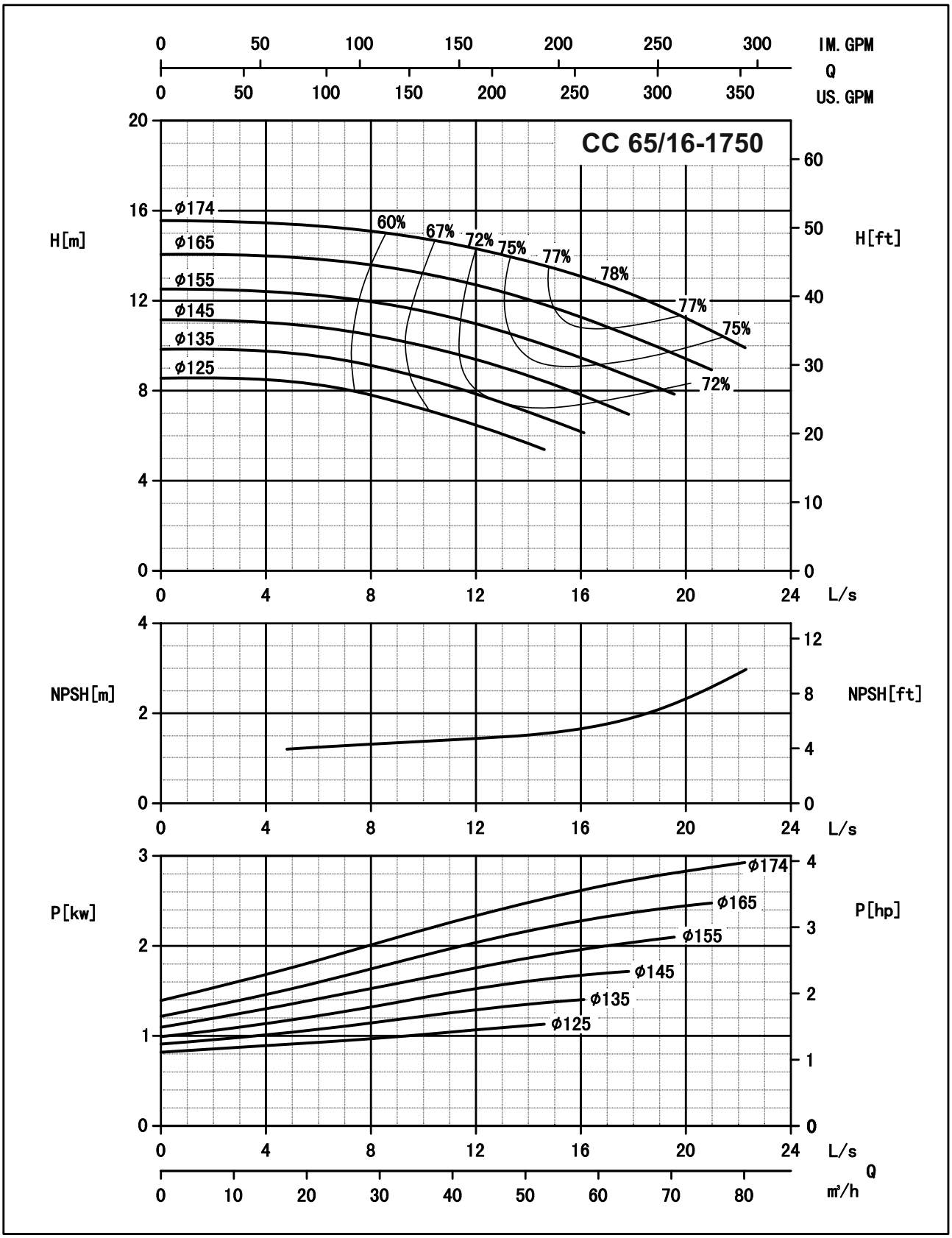

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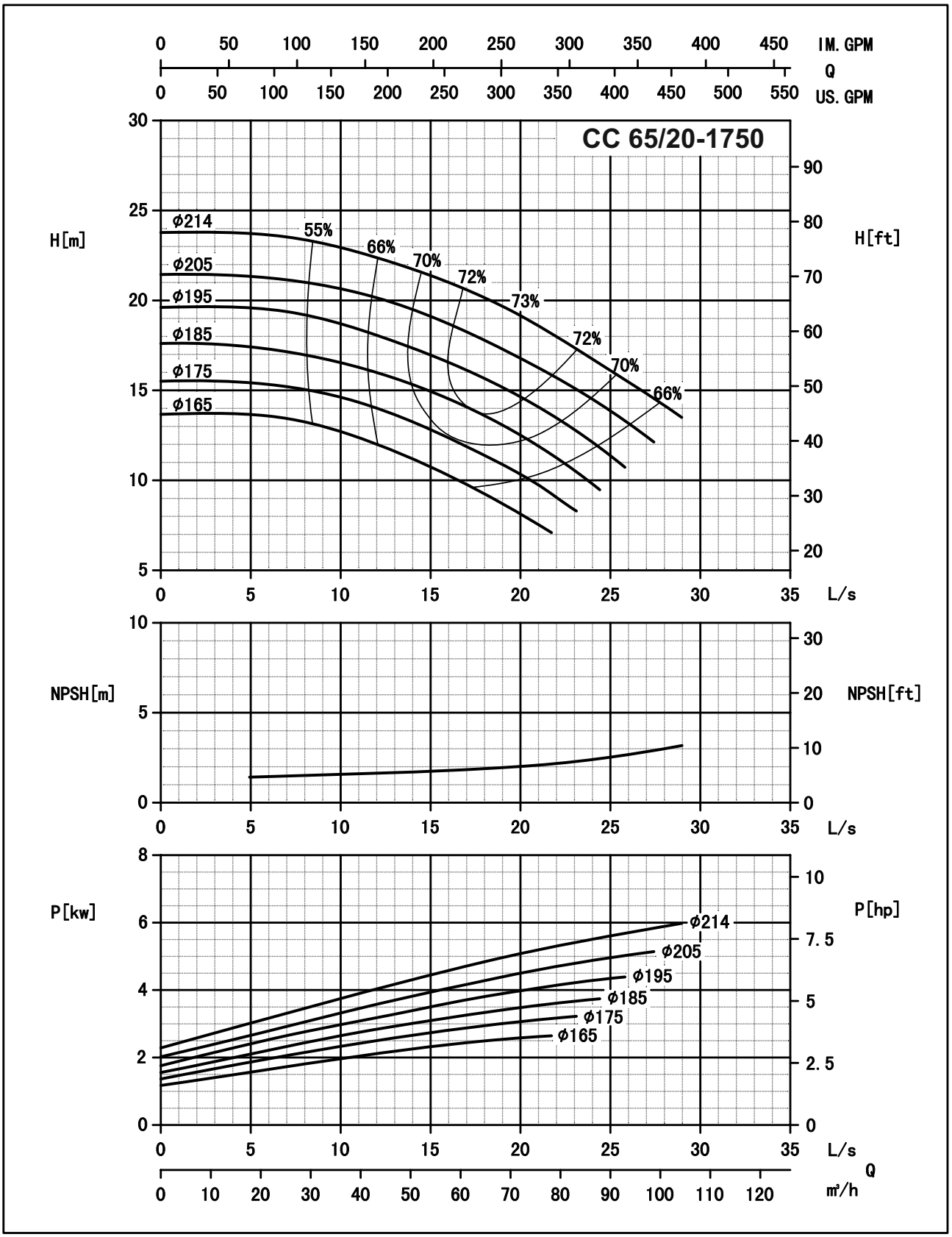

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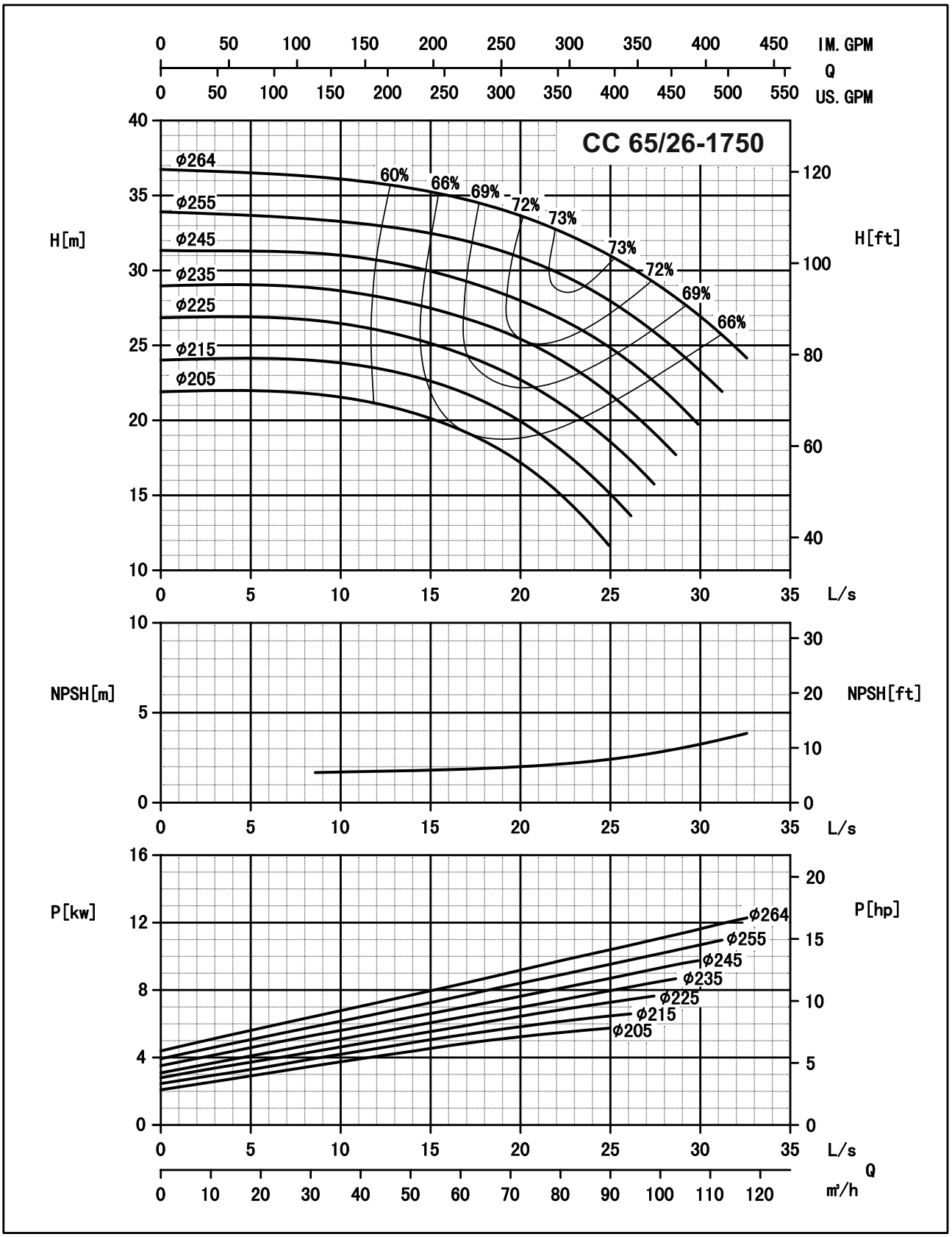

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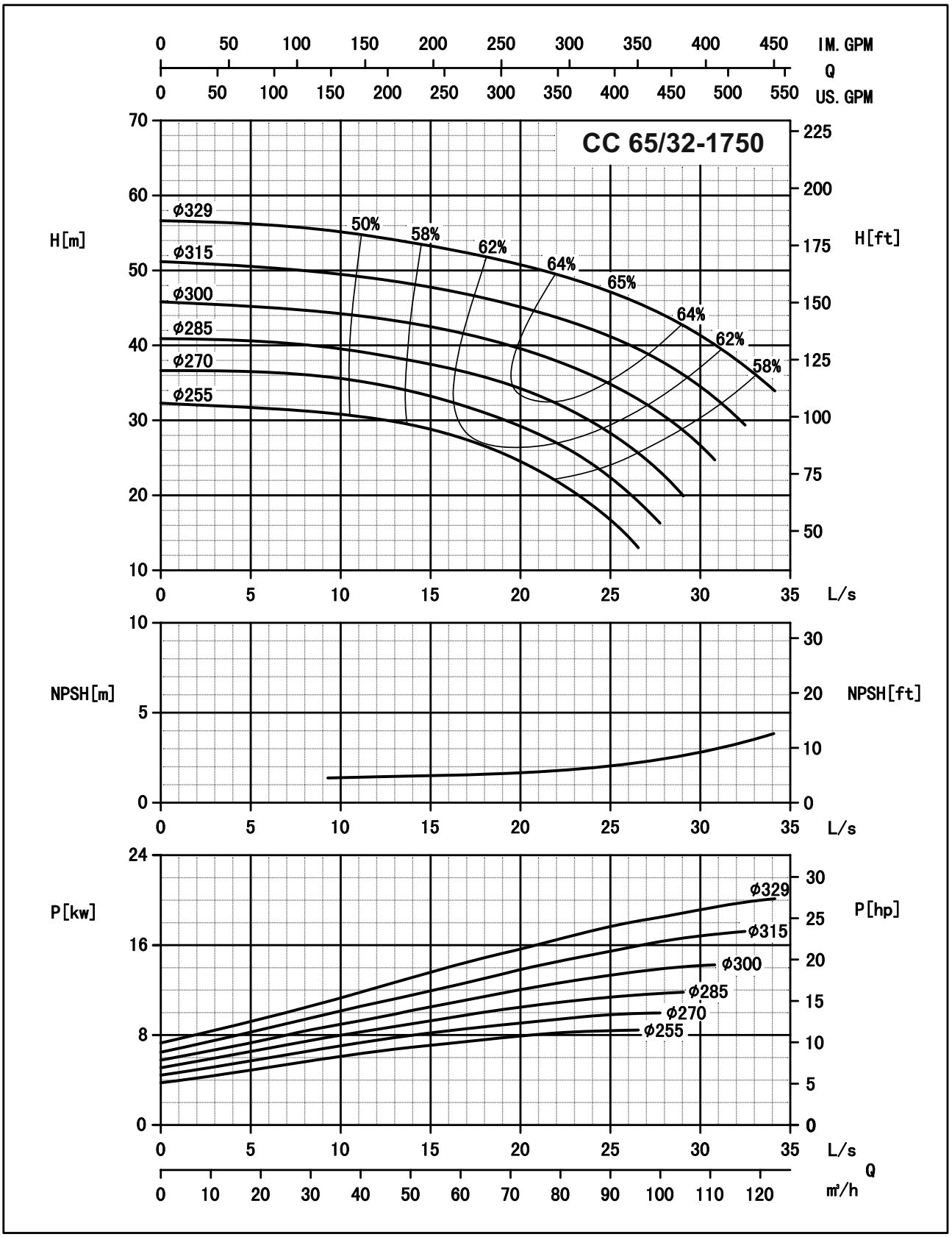

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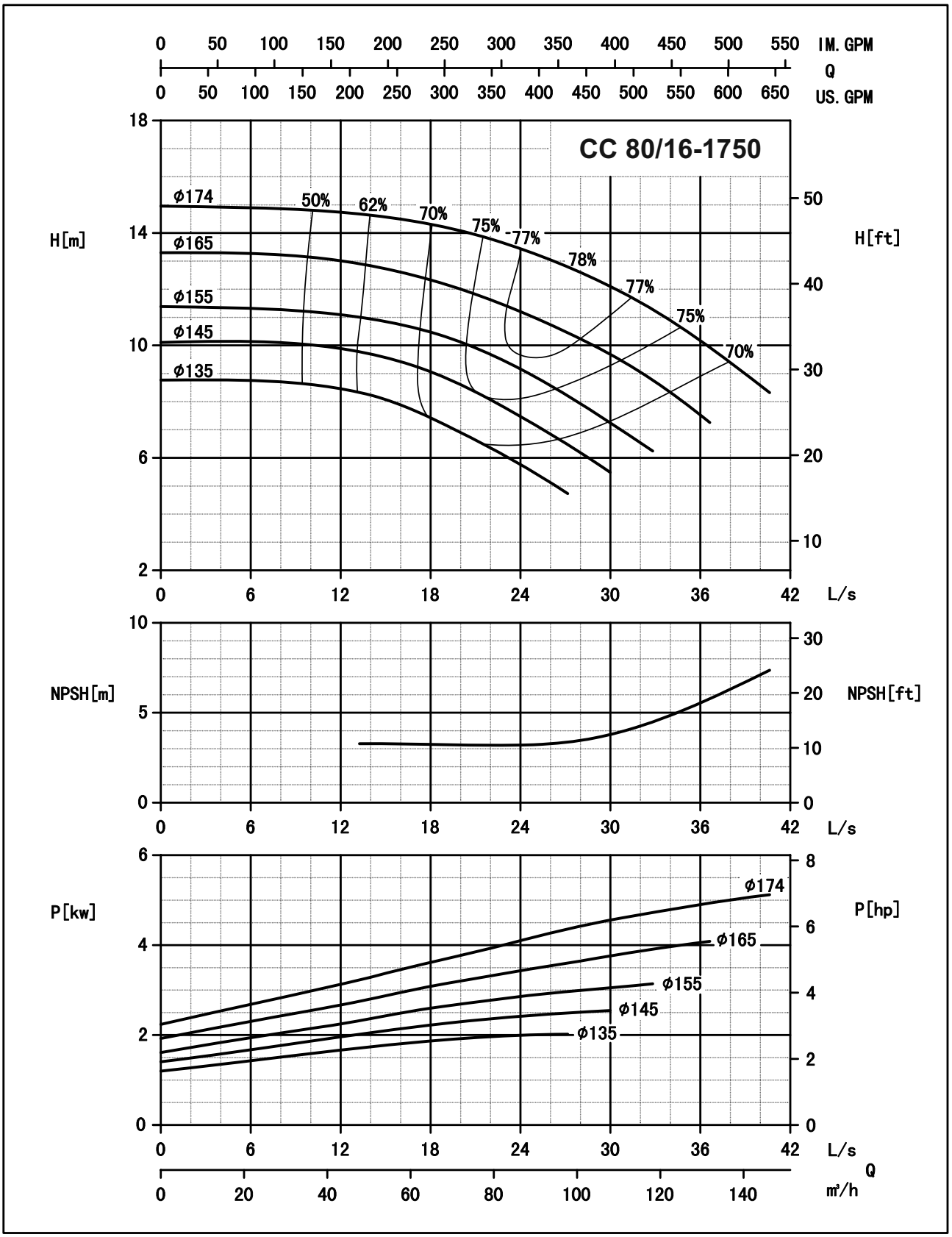

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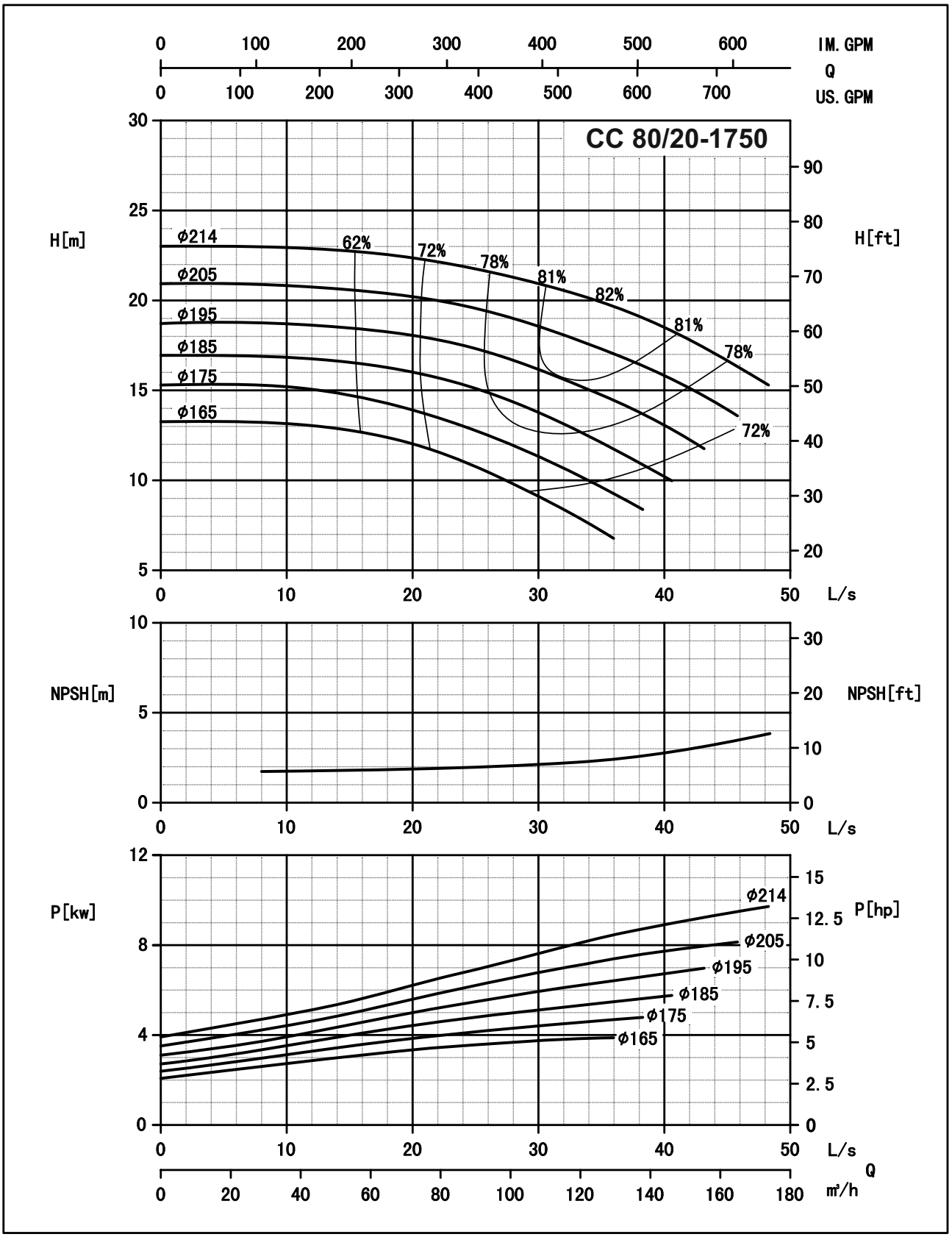

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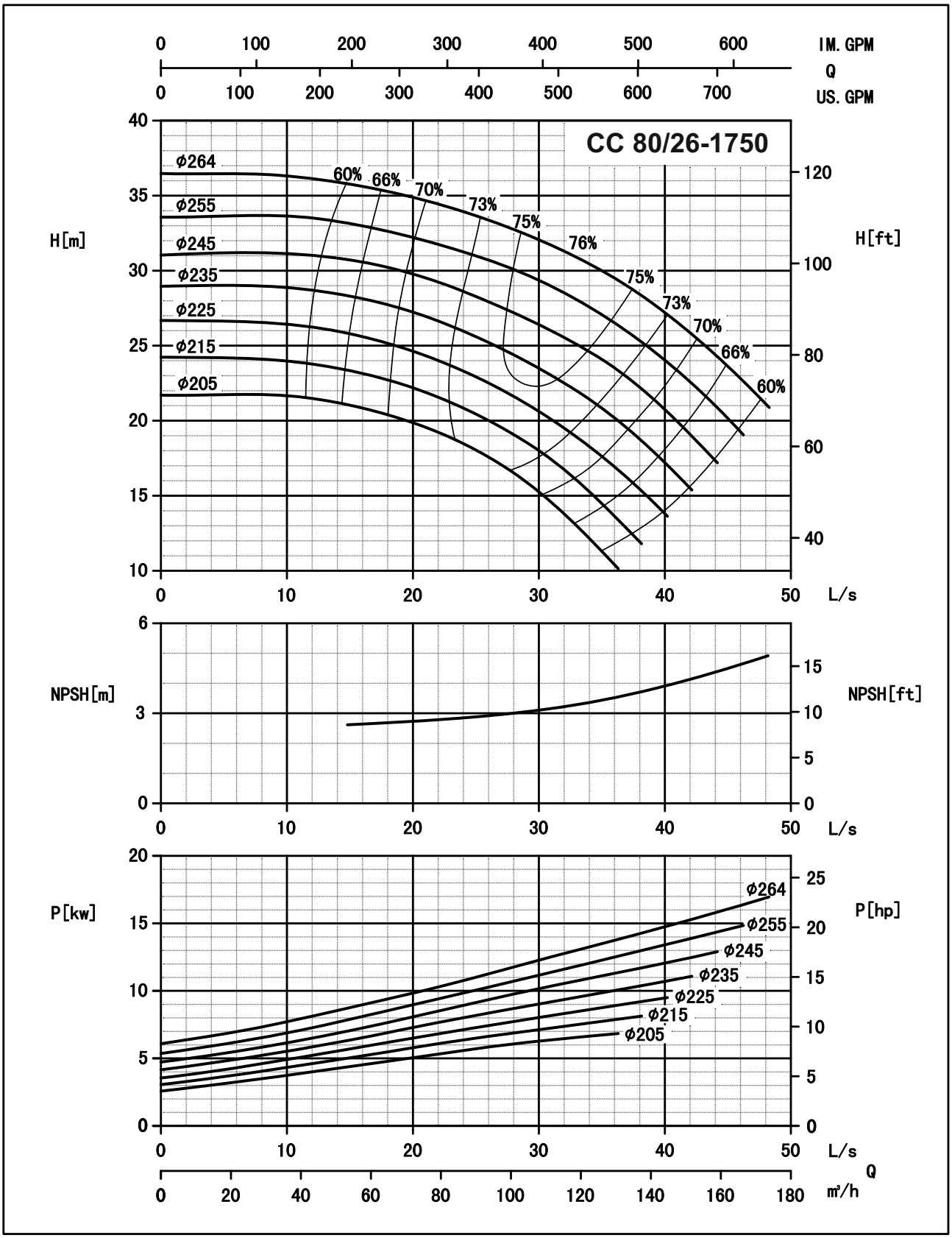

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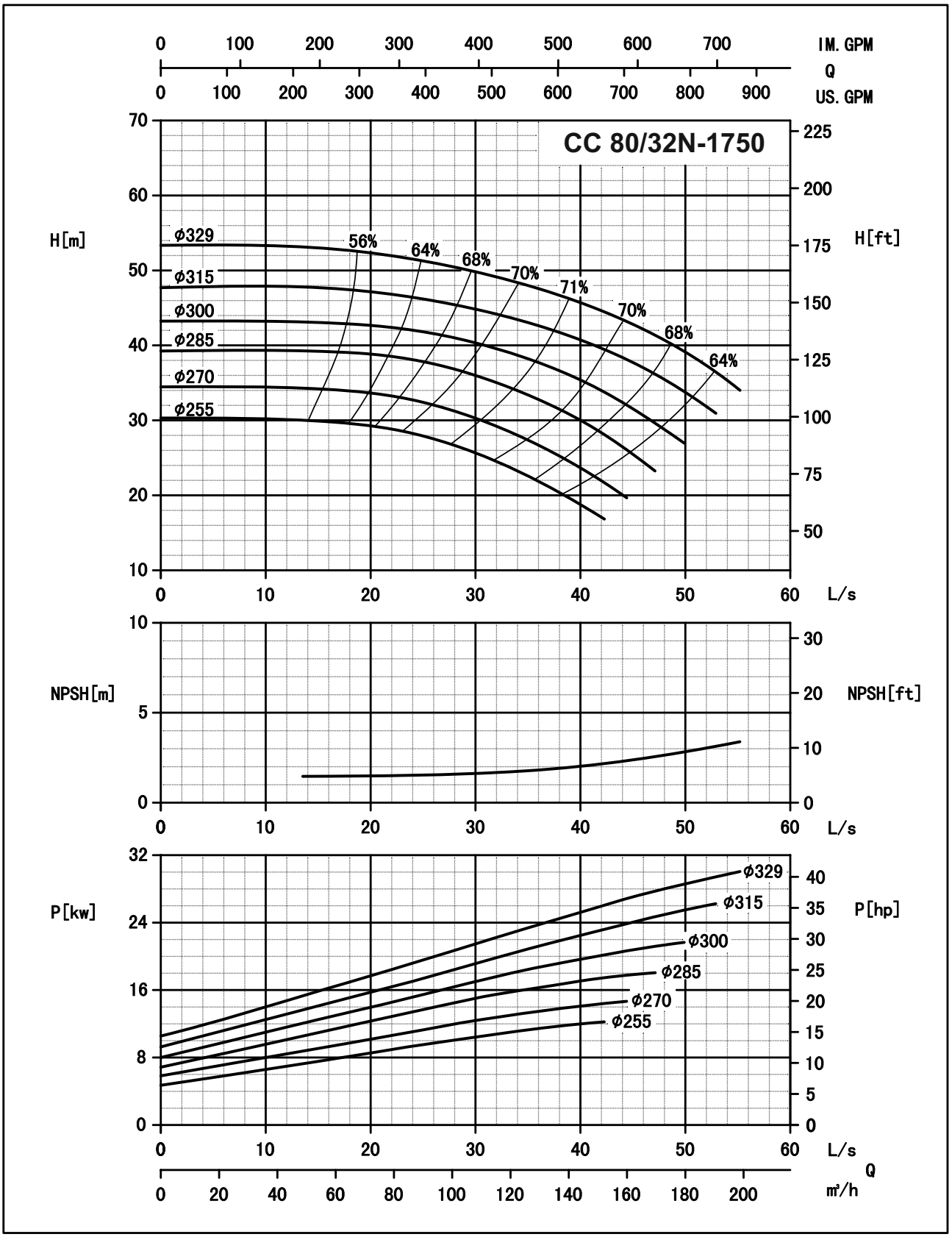

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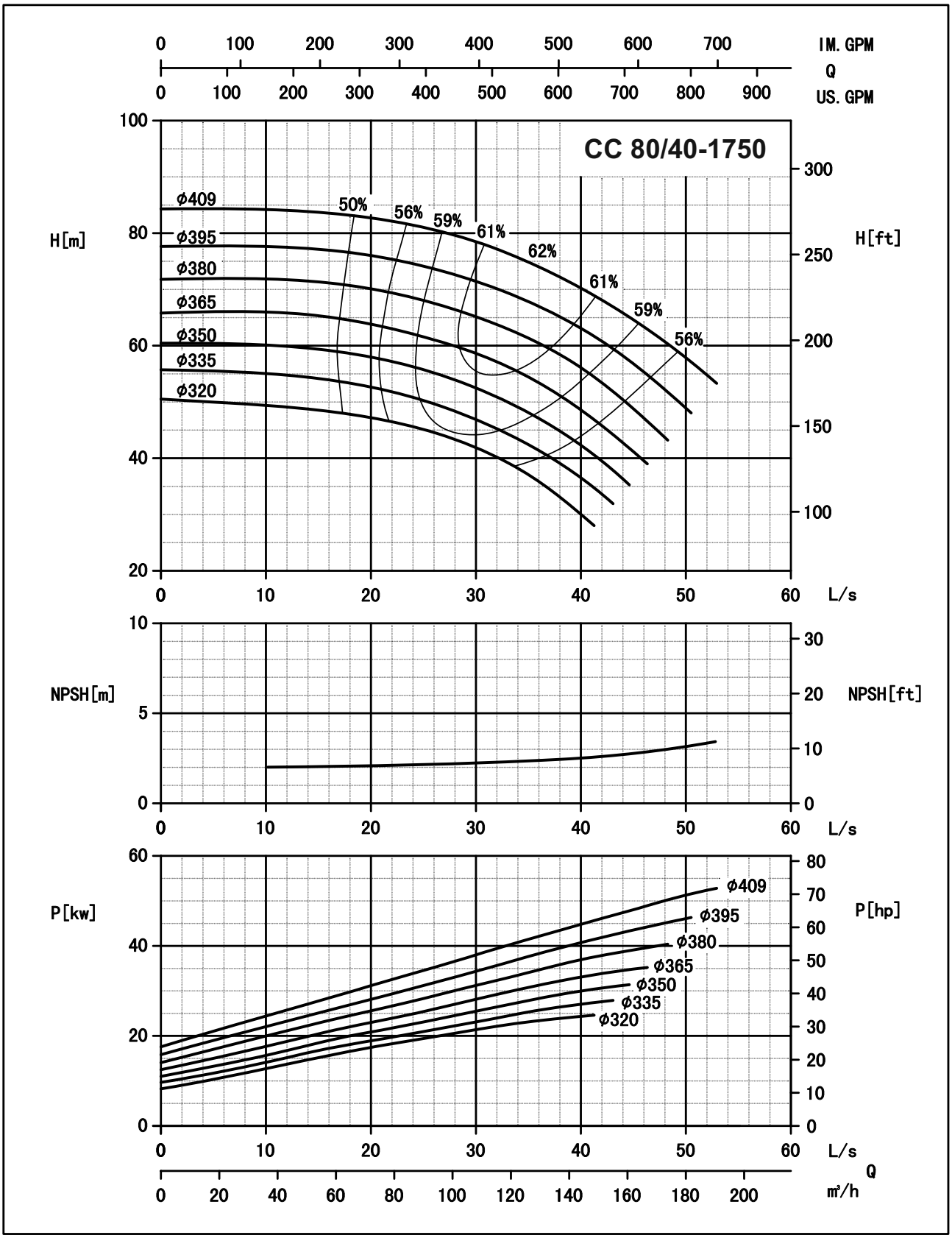

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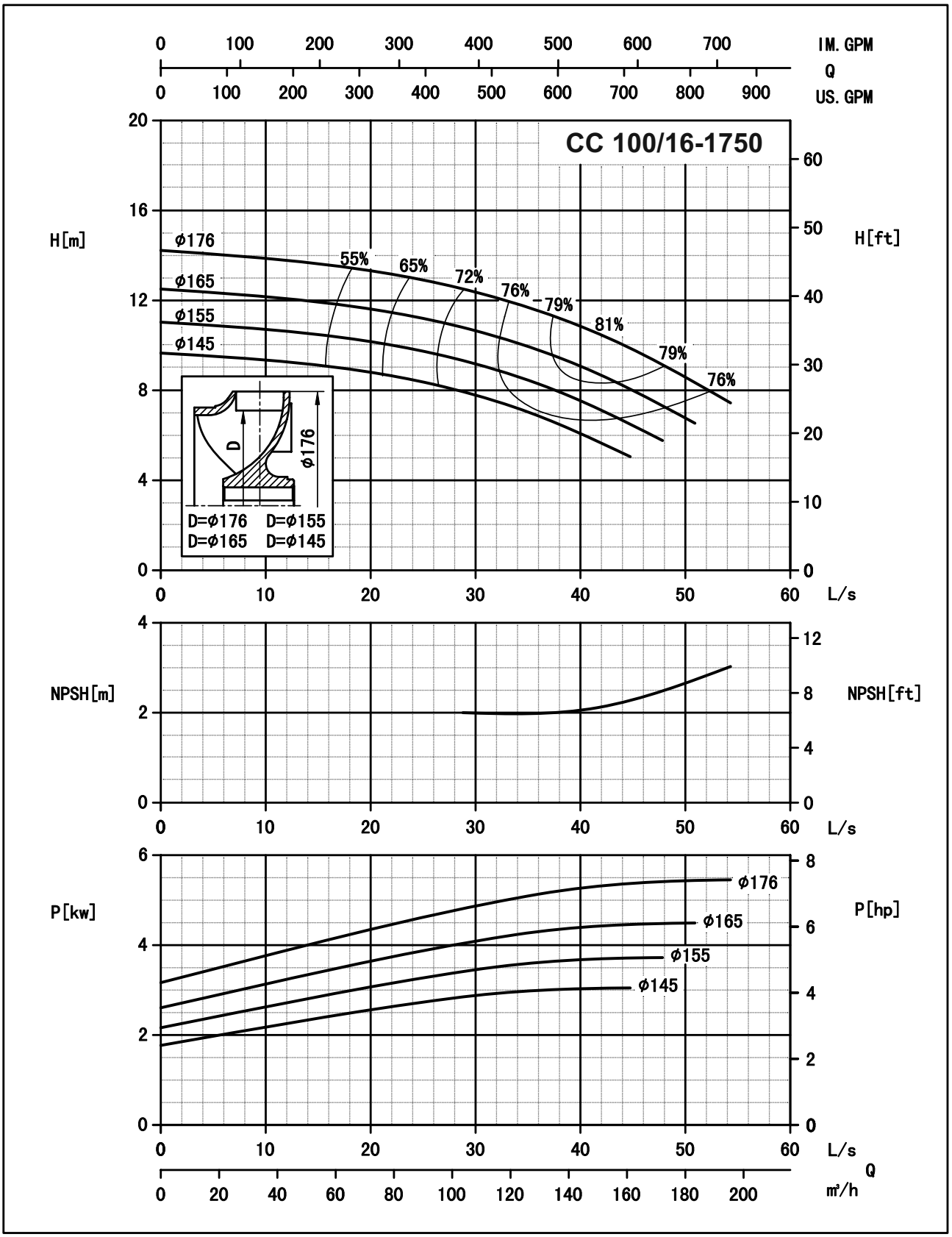

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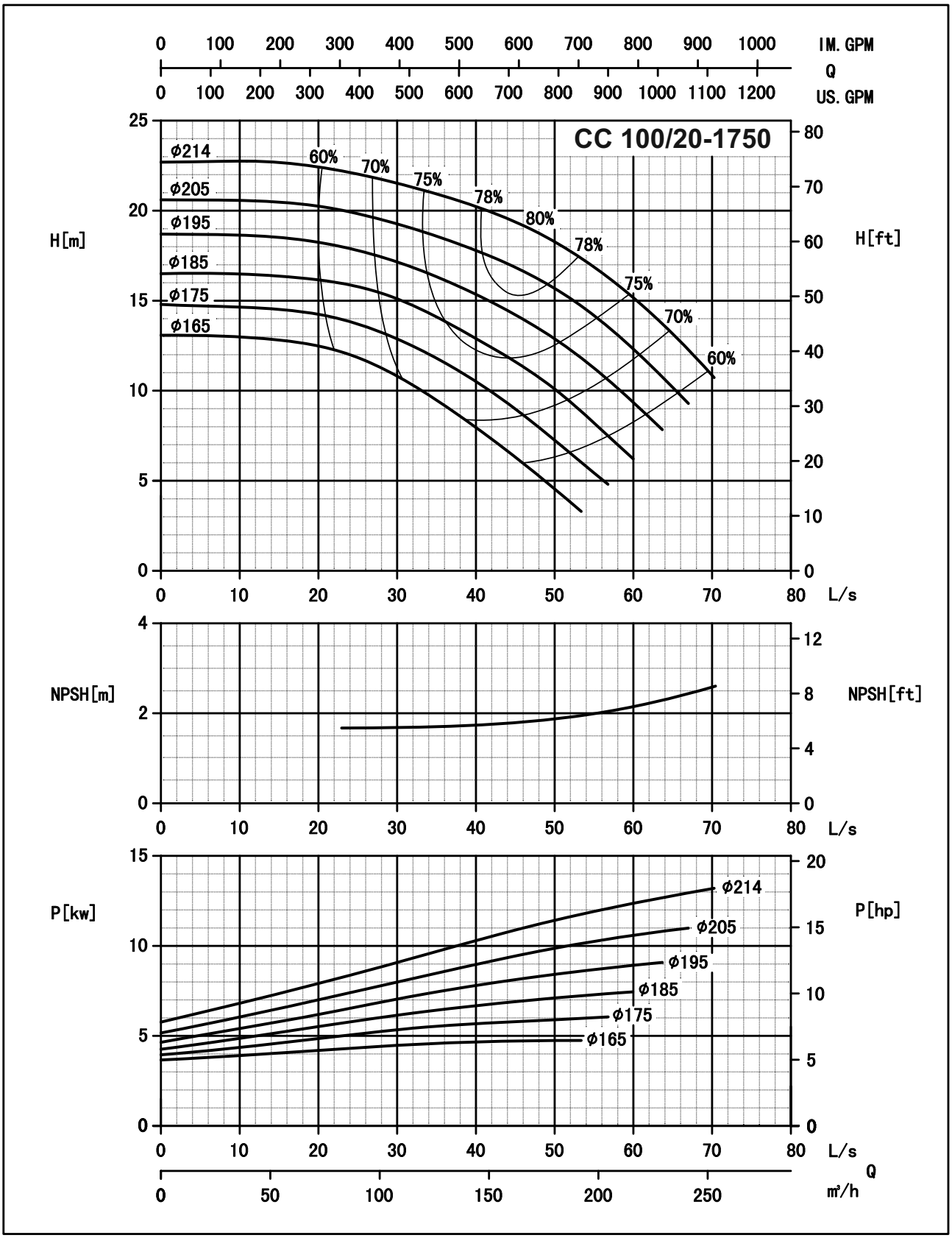

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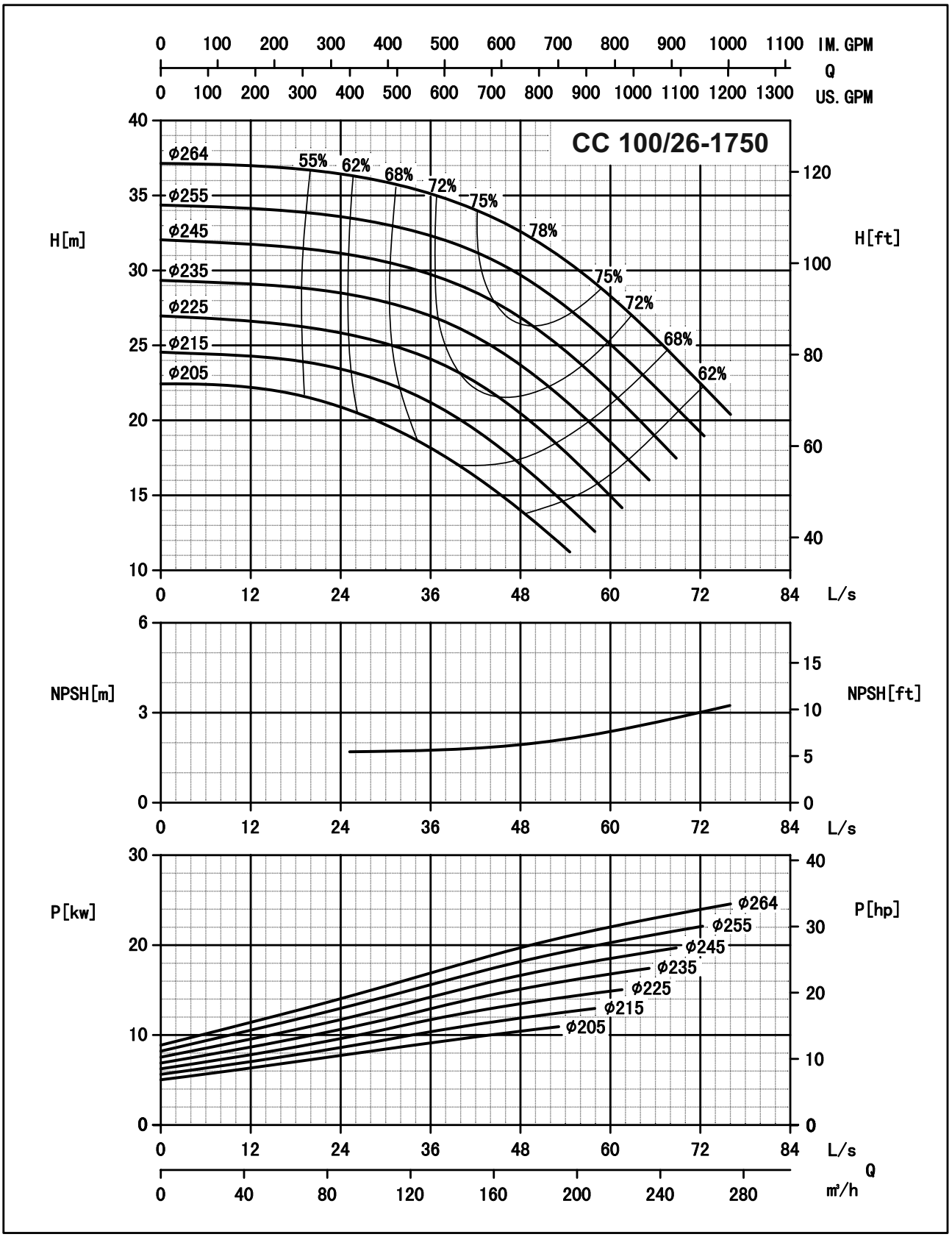

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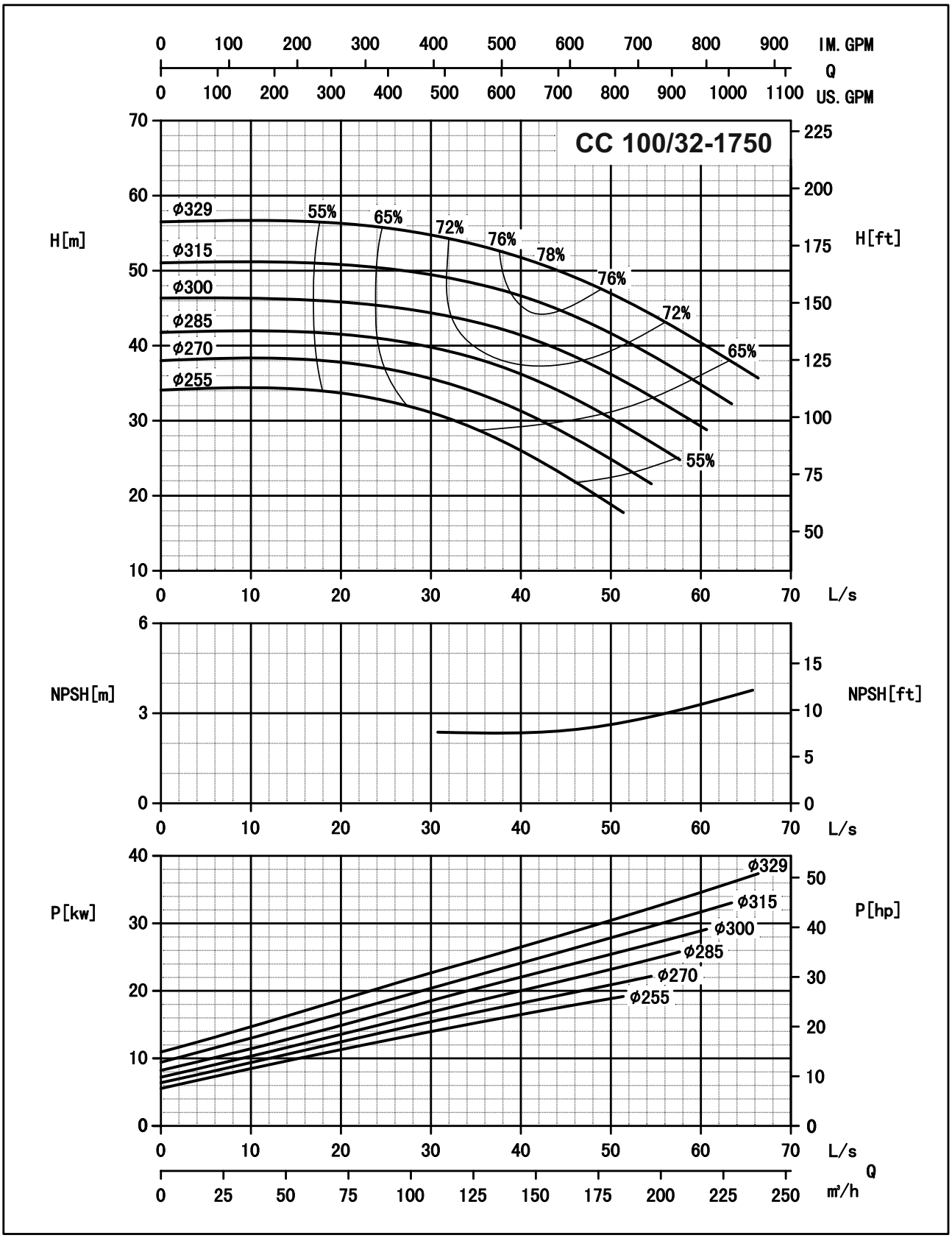

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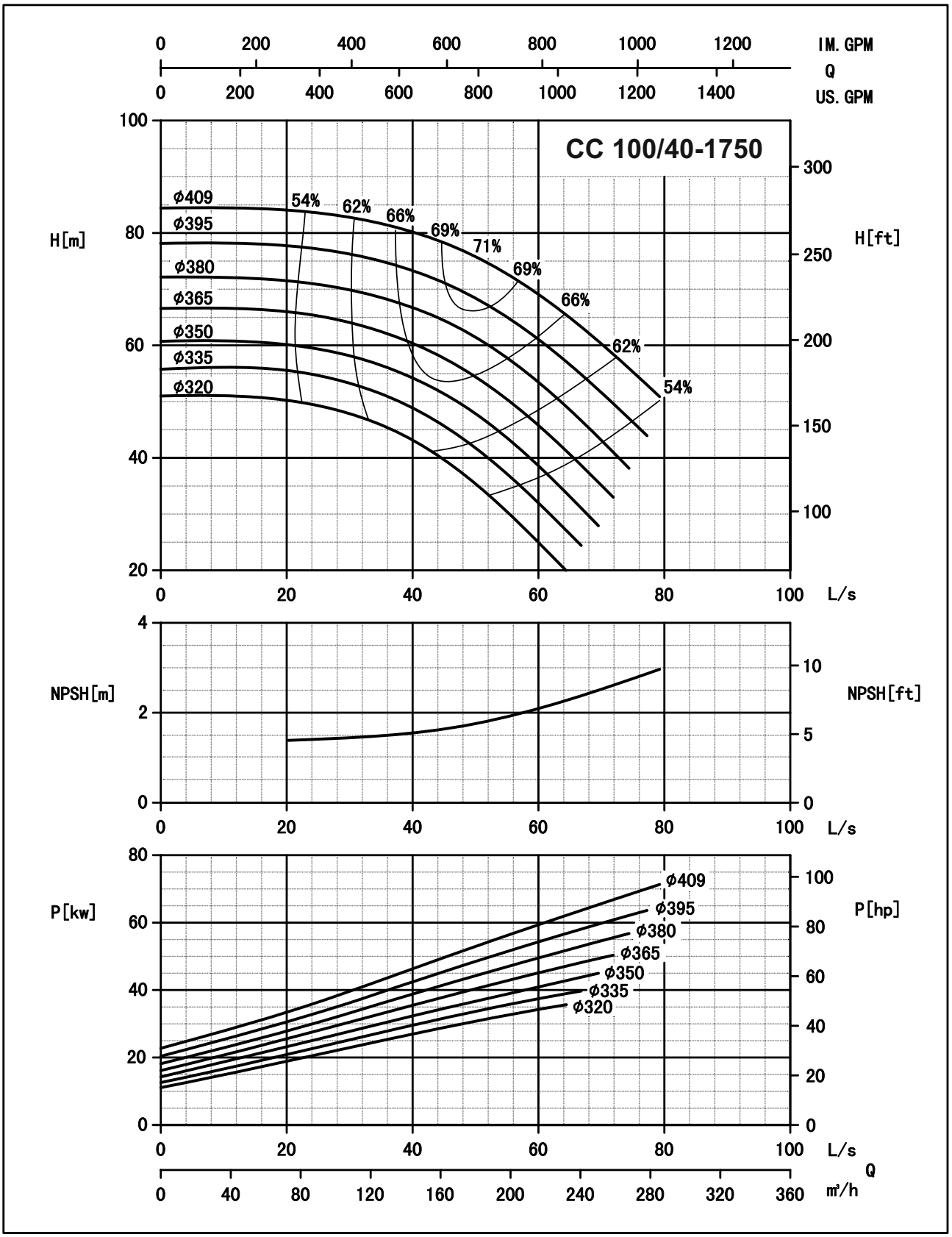

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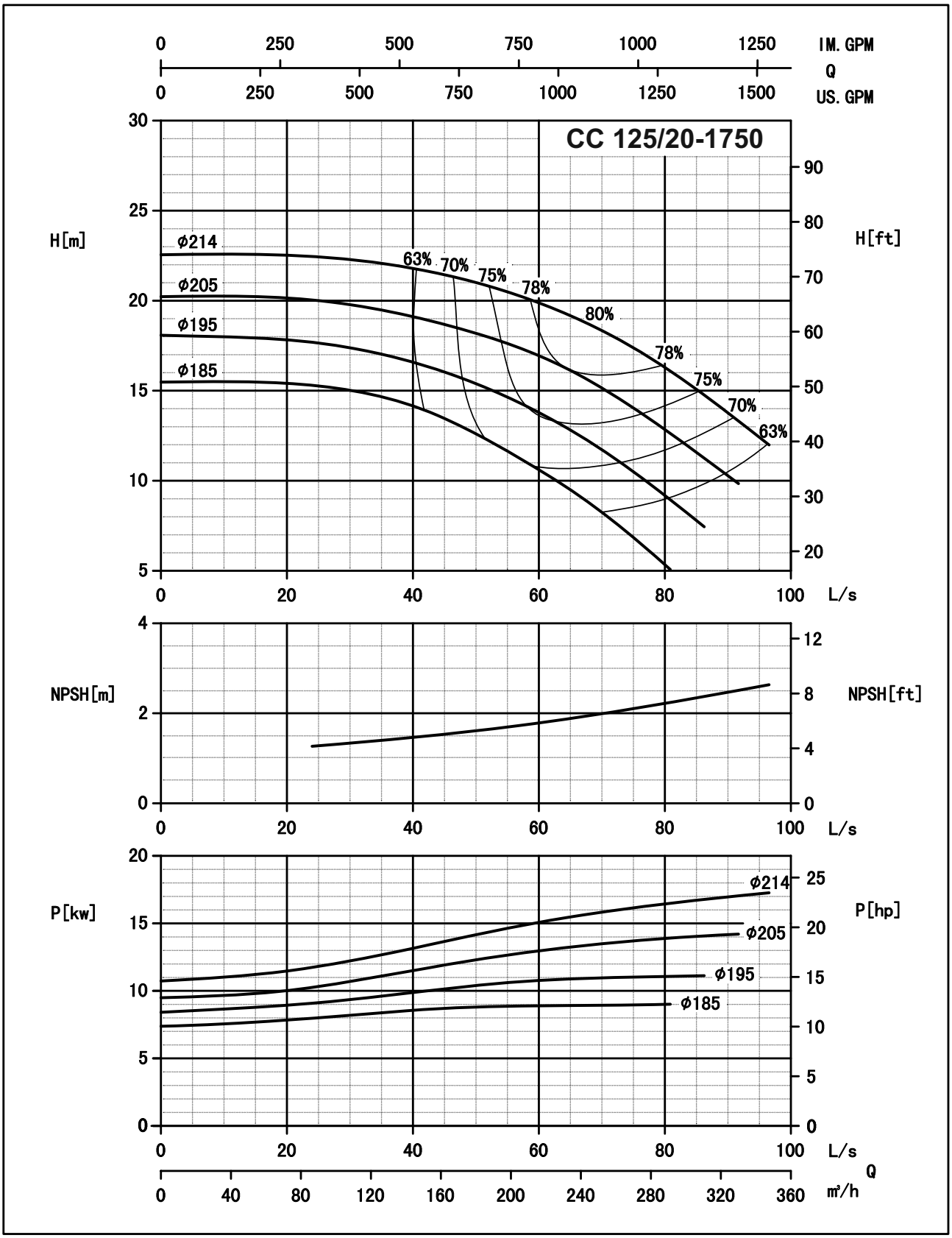

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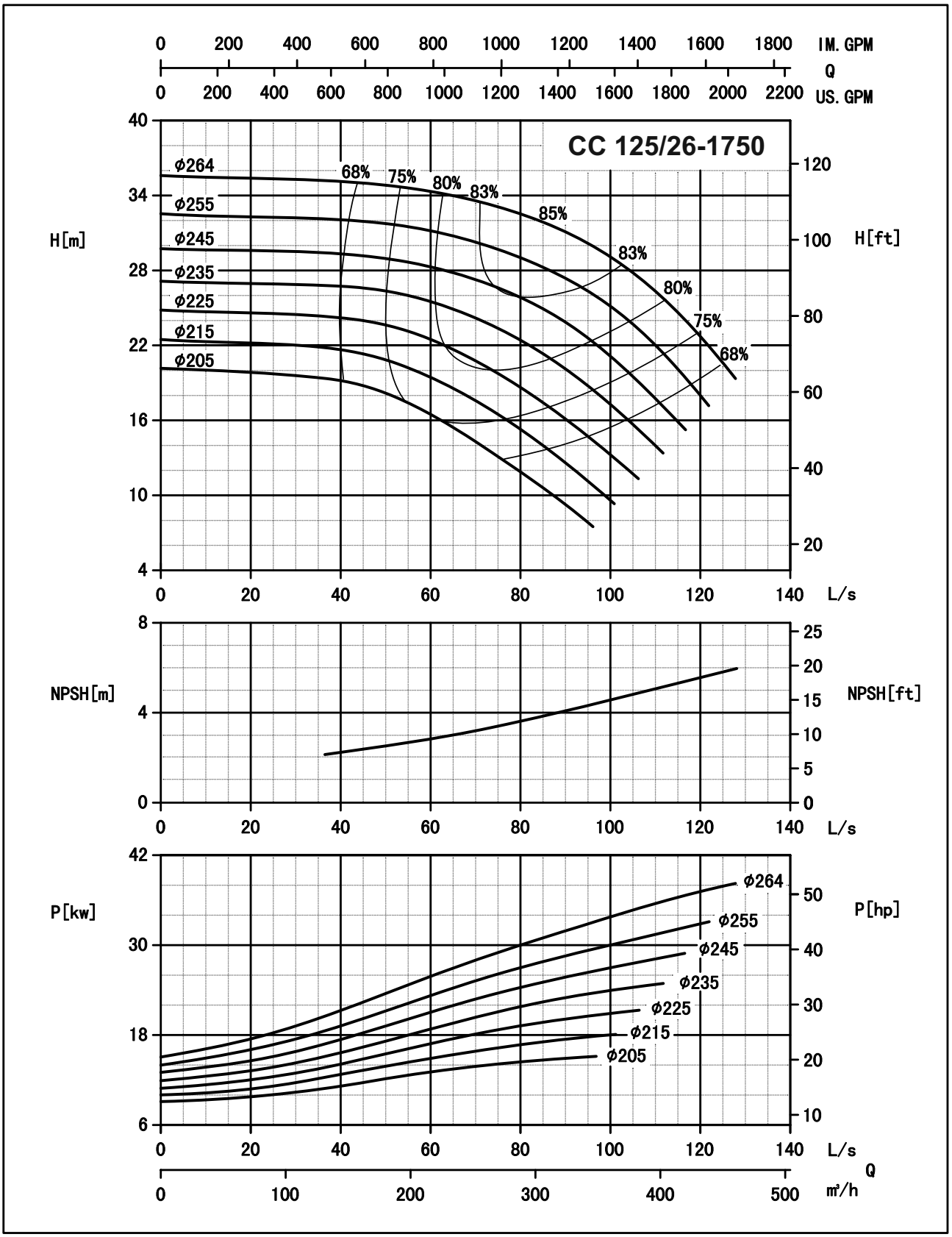

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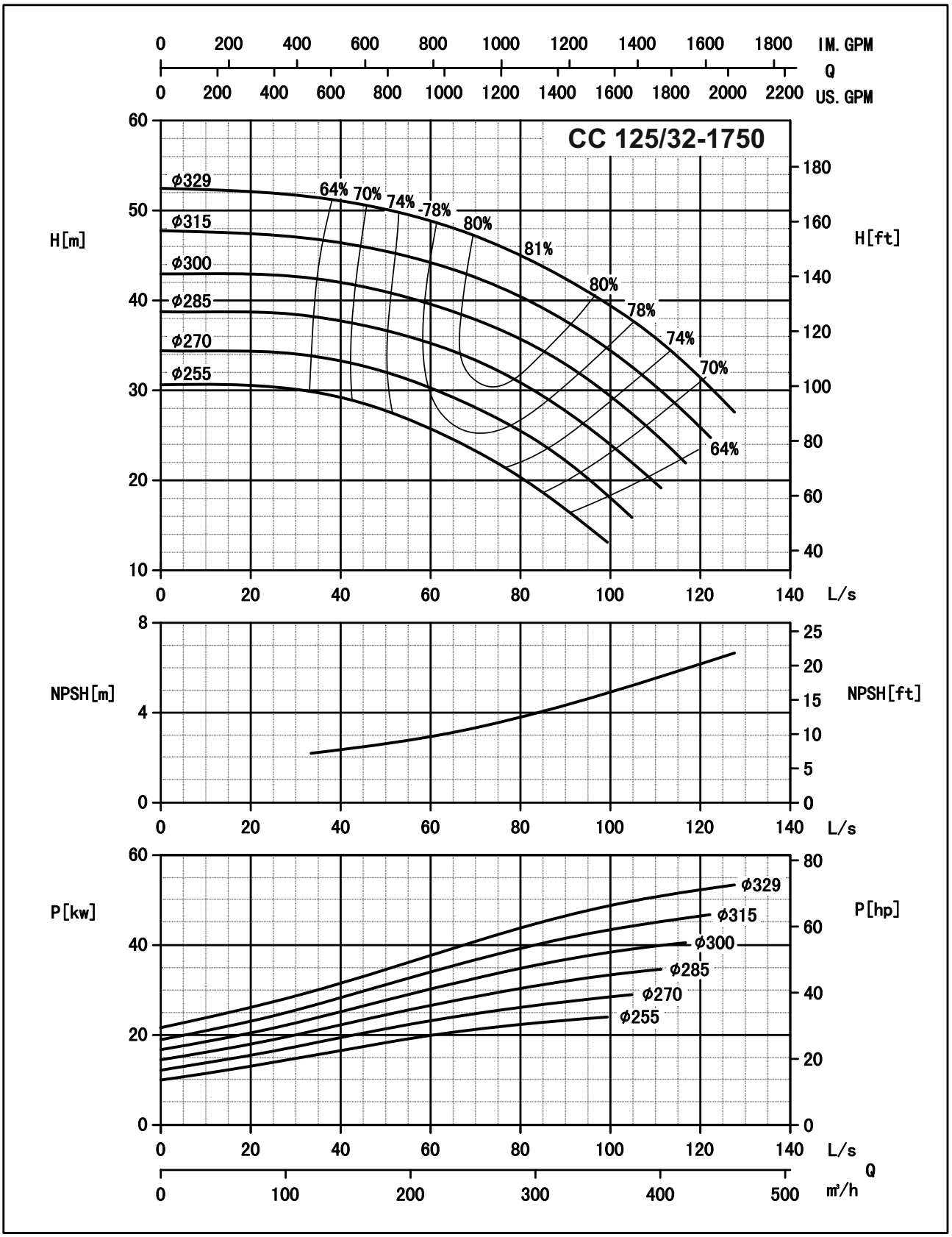

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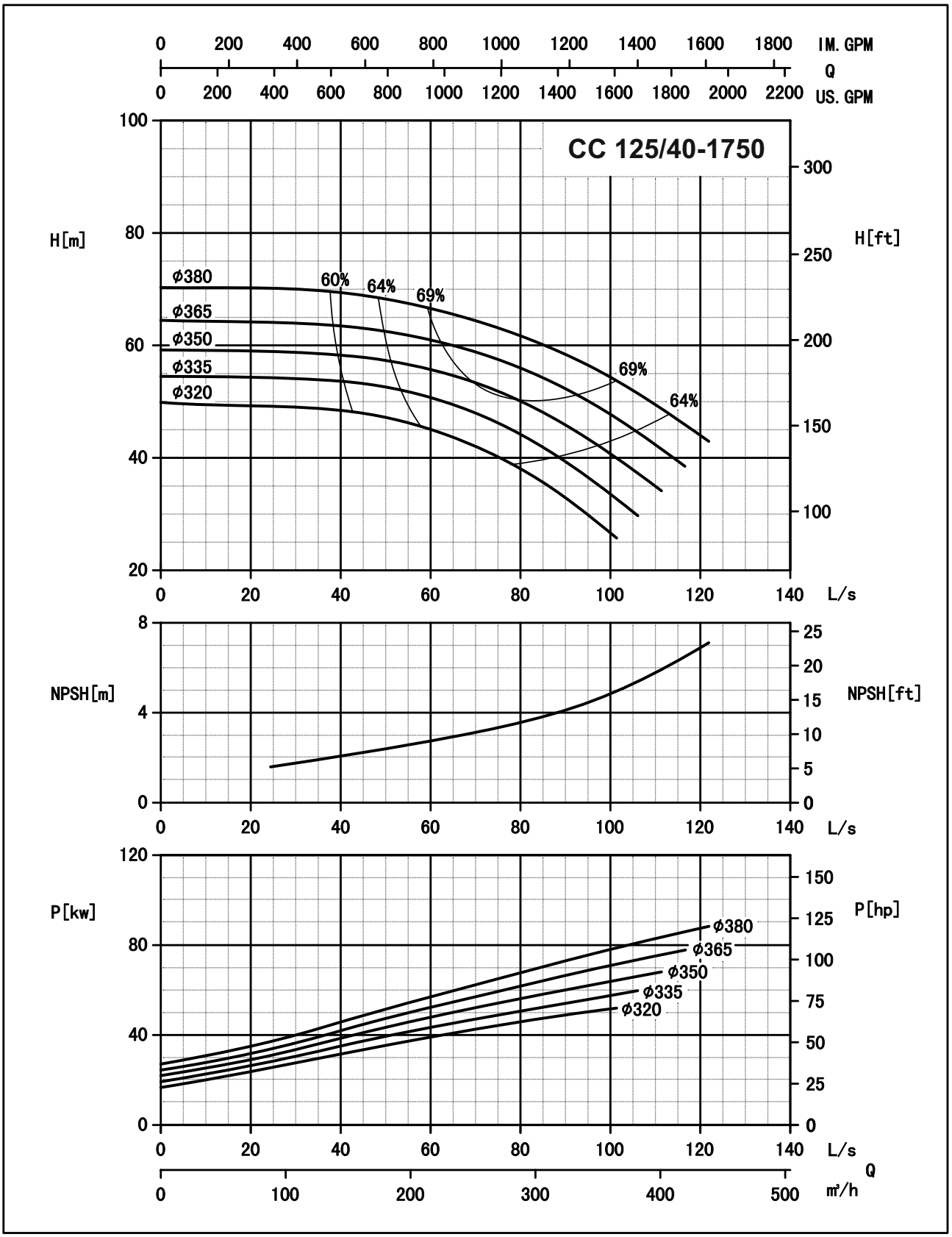

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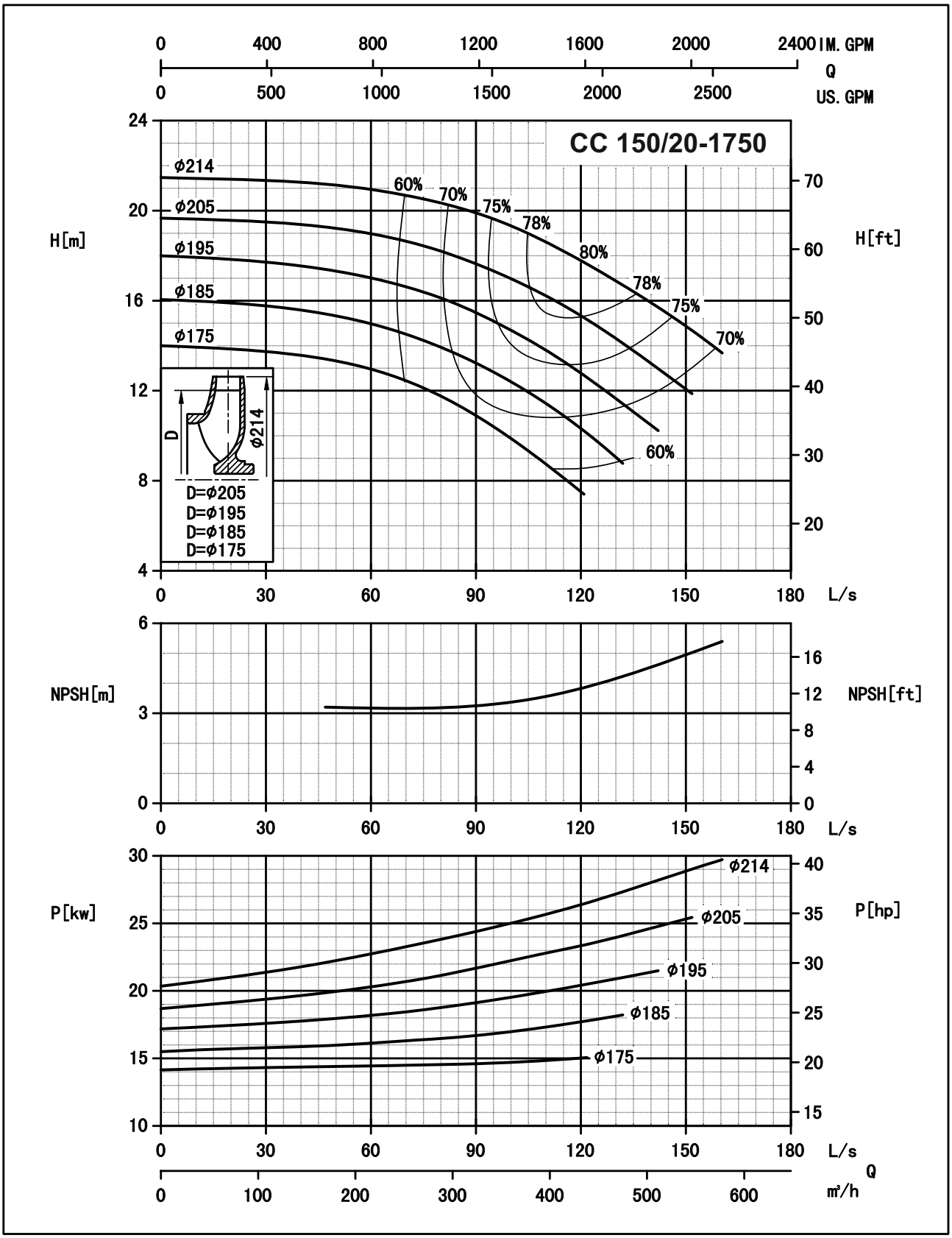

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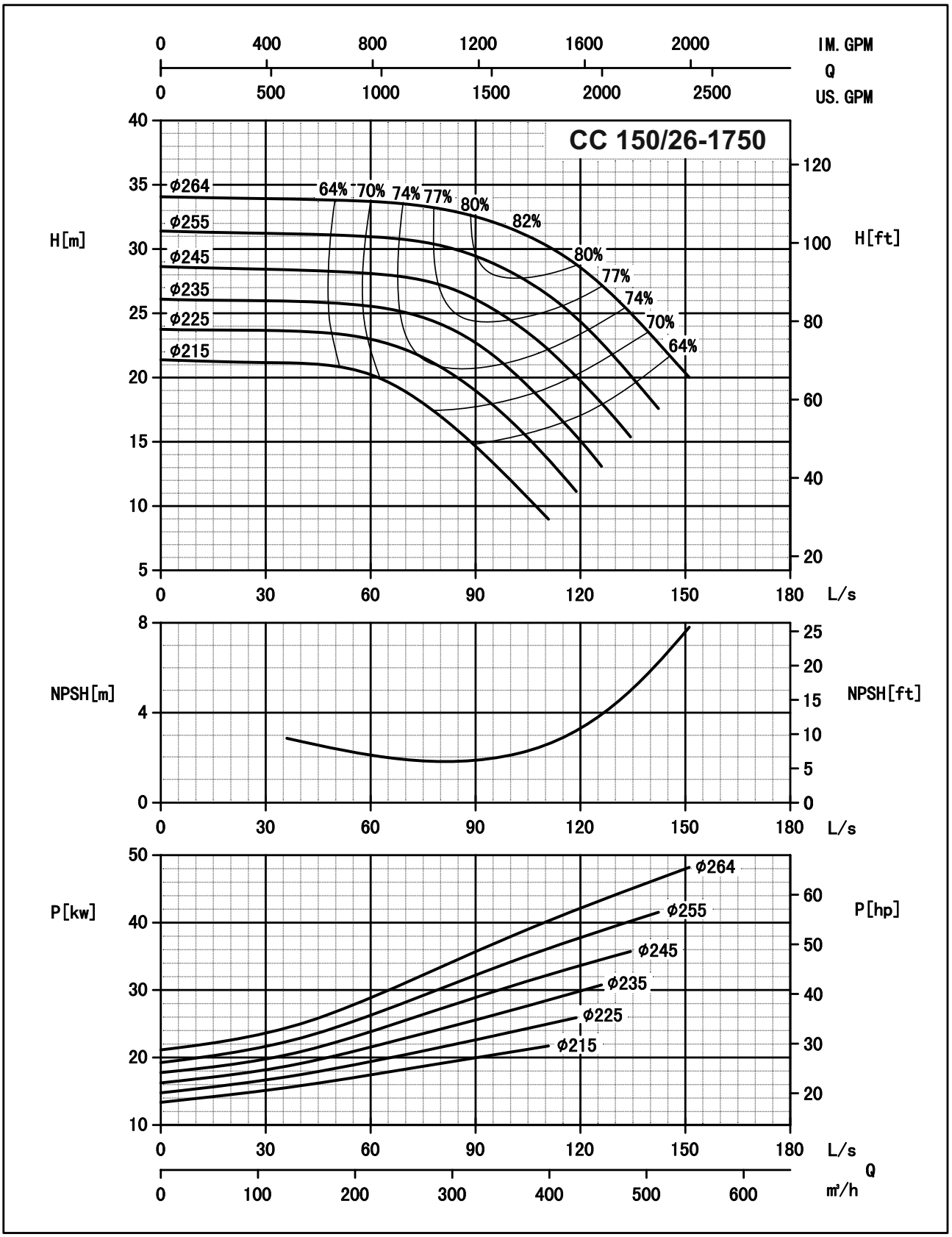

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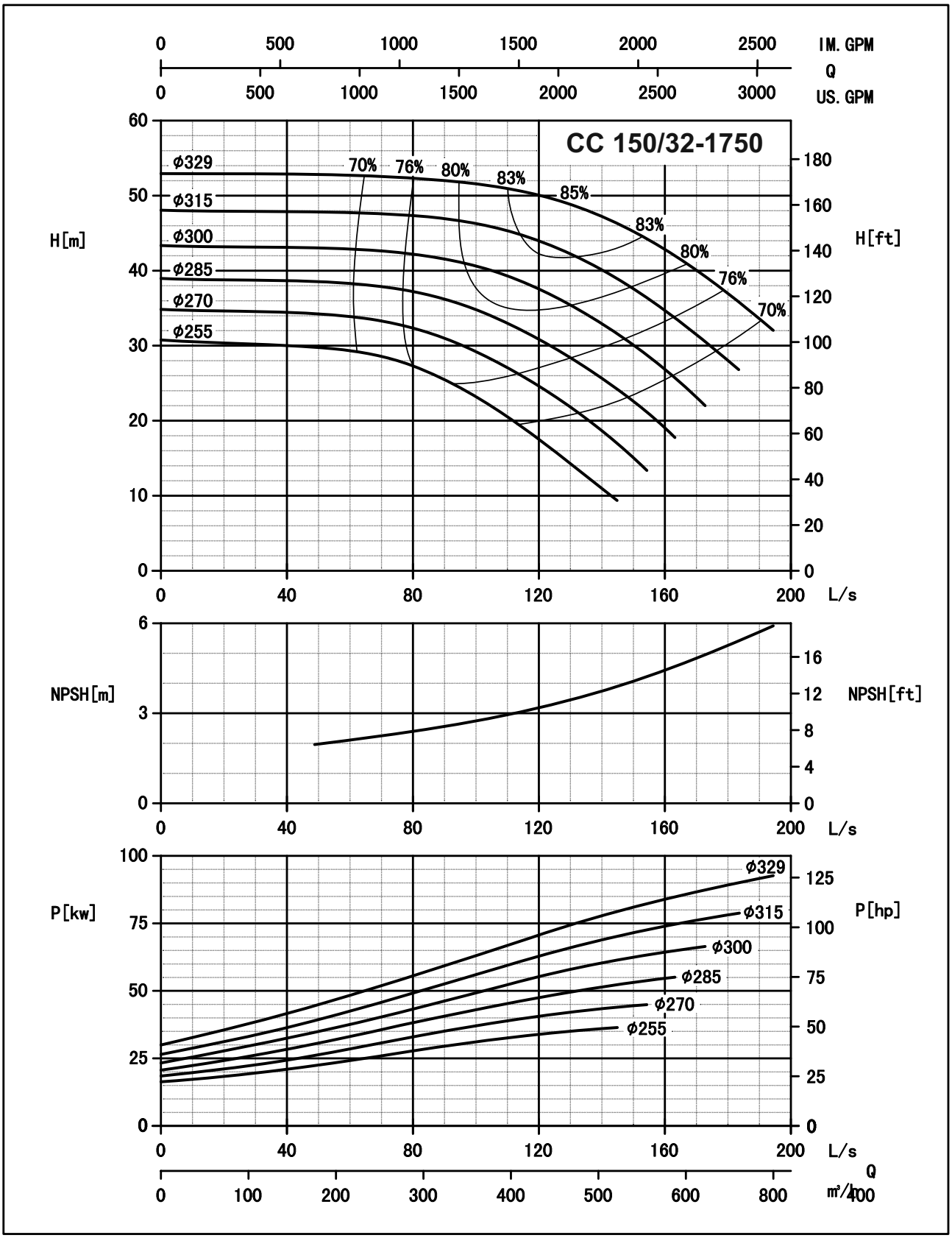

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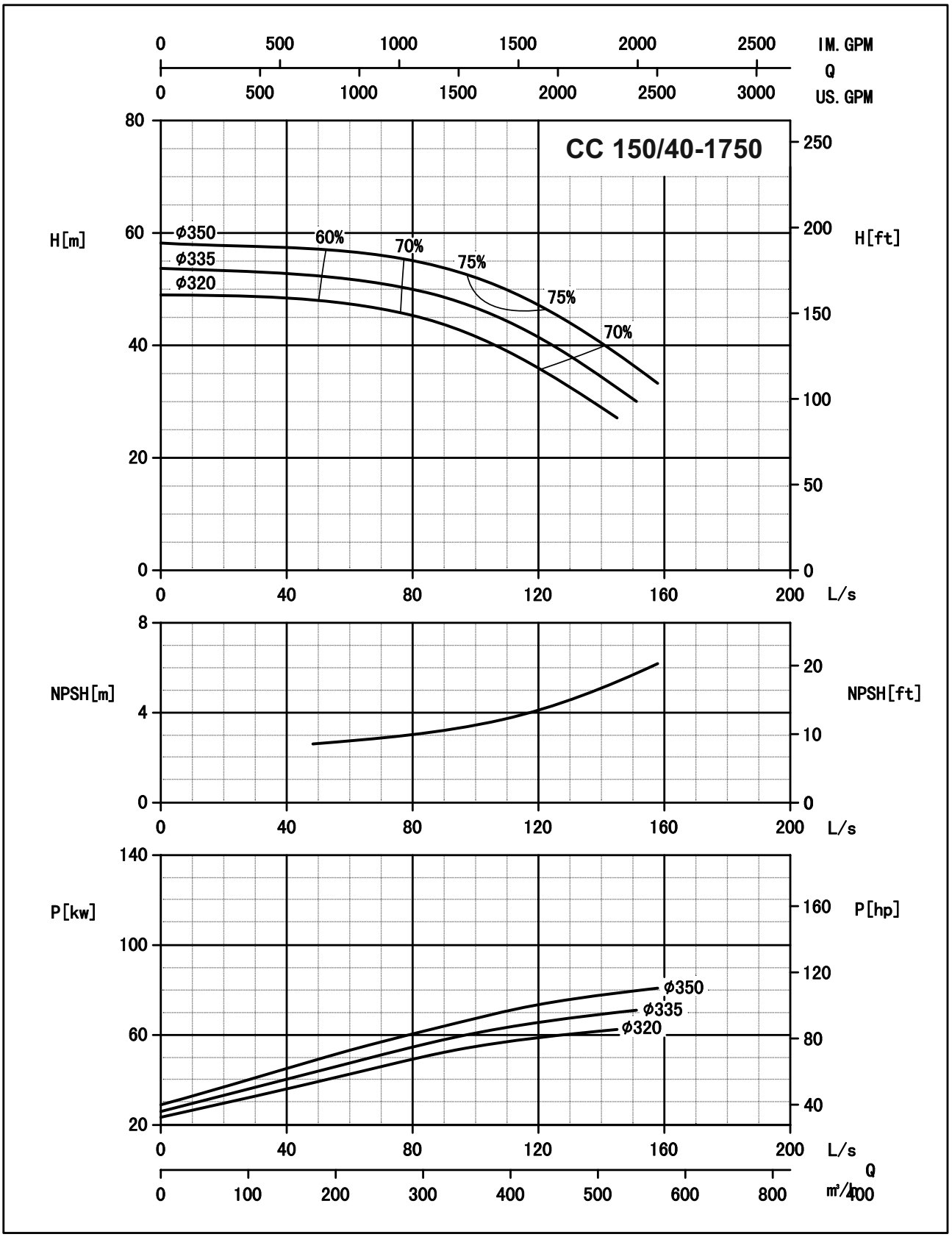

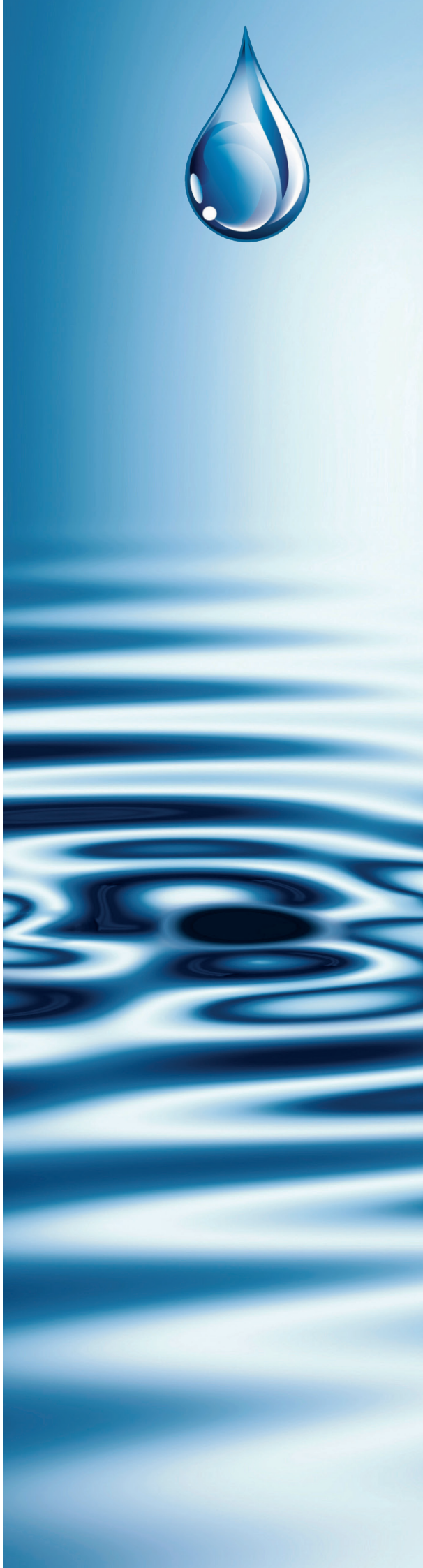

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