



standardised centrifugal pumps to EN 733 - DIN 24255

New patented motor design, high efficiency class EFF1, for maximum energy saving.



RANGE OF PERFORMANCE

Flow rate up to 6000 l/min (360 m³/h)
Head up to 95 m

LIMITS OF USE

Manometric suction lift up to 7 m
Liquid temperature from -10°C to + 90°C
Environment temperature from -10°C to + 40°C
Max. pressure in the pump body 10 bar (PN10)

CONSTRUCTION AND SAFETY STANDARDS

EN 60034-1
IEC 34-1
CEI 2-3



INSTALLATION AND USE

They are recommended for pumping clean water and liquids that are chemically non aggressive to the materials from which the pump is made. **THIS SERIES IS SUITABLE FOR SUPPLYING AND MOVING WATER, IN COOLING, HEATING, CIRCULATING AND CONDITIONING SYSTEMS, FOR FIRE FIGHTING, IRRIGATION, INDUSTRIAL AND AGRICULTURAL APPLICATIONS.**

Manufacture in accordance with dimensional standards EN 733 - DIN 24255 ensures models are fully interchangeable. The design allows the pump body to be removed without disconnecting it from the pipes (**back pull out**).

The pumps must be installed in enclosed places, or at least protected against inclement weather.

GUARANTEE 2 YEARS subject to our general terms of sale.

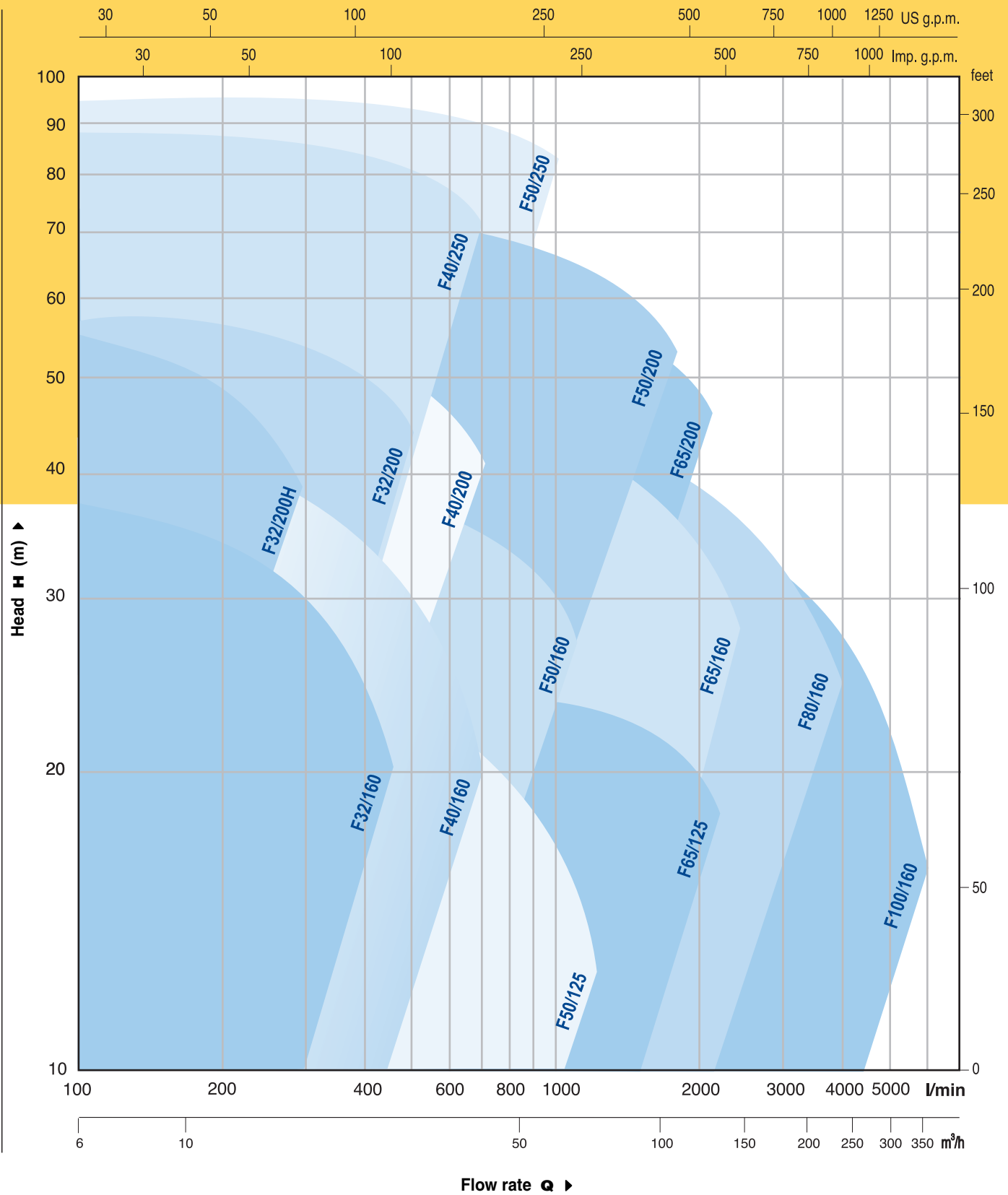
CONSTRUCTION CHARACTERISTICS

- **PUMP BODY: cast iron**, complies with dimensional standards EN 733 - DIN 24255 and UNI 7467-NF E-44-111, with flanged suction and delivery ports complete with threaded steel counterflanges.
- **BODY BACK-PLATE: cast iron.**
- **IMPELLER: brass** for models F32/160, F32/200, F40/160, F40/200, F50/125 e F50/160.
- **IMPELLER: cast iron** for models F40/250, F50/200, F50/250, F65/125, F65/160, F65/200, F80/160, F100/160
- **MOTOR SHAFT: stainless steel EN 10088-3 - 1.4104.**
- **MECHANICAL SEAL: ceramic - graphite - NBR.**
- **ELECTRIC MOTOR:** the pumps are close-coupled to a carefully matched PEDROLLO electric motor, asynchronous type **with high efficiency (class EFF1 for powers from 4 to 22 kW)**, quiet running, totally enclosed fan cooled (TEFC), suitable for continuous duty.
 - Fm:** single-phase 230 V - 50 Hz with capacitor and thermal overload protector (up to 1.5 kW).
 - F:** three-phase 230/400 V - 50 Hz up to 4 kW. 400/690 V - 50 Hz from 5.5 to 22 kW.
- **INSULATION: class F.** ● **PROTECTION: IP 44.**

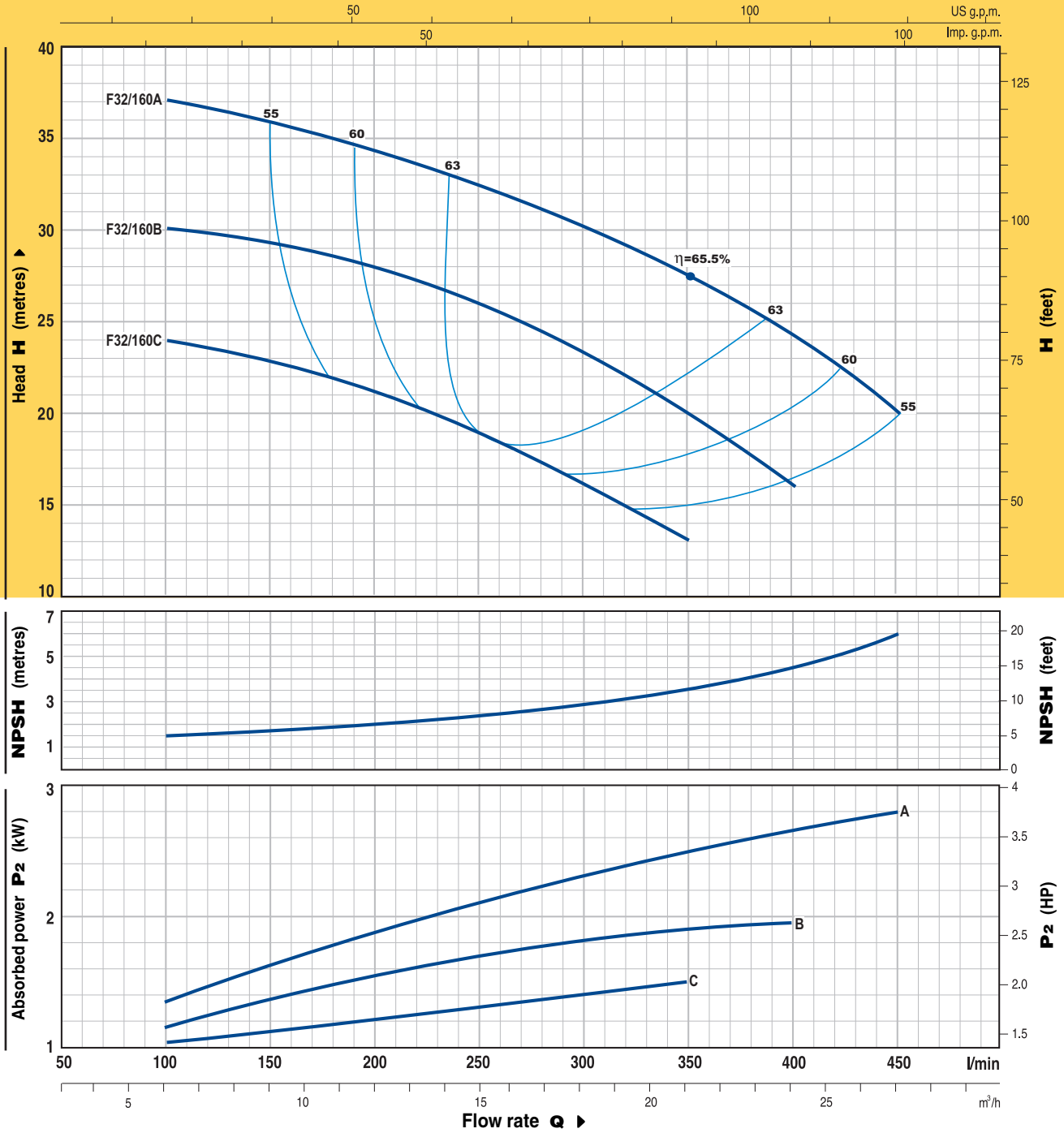
OPTIONS ON REQUEST

- ⇒ pump shaft in stainless steel EN 10088-3 - 1.4401 (AISI 316)
- ⇒ special mechanical seal
- ⇒ other voltages or frequency 60 Hz
- ⇒ protection IP 55
- ⇒ for liquids with higher or lower temperatures
- ⇒ for environments with higher or lower temperatures

RANGE OF PERFORMANCE AT n= 2900 1/min



CURVES AND PERFORMANCE DATA AT n= 2900 1/min

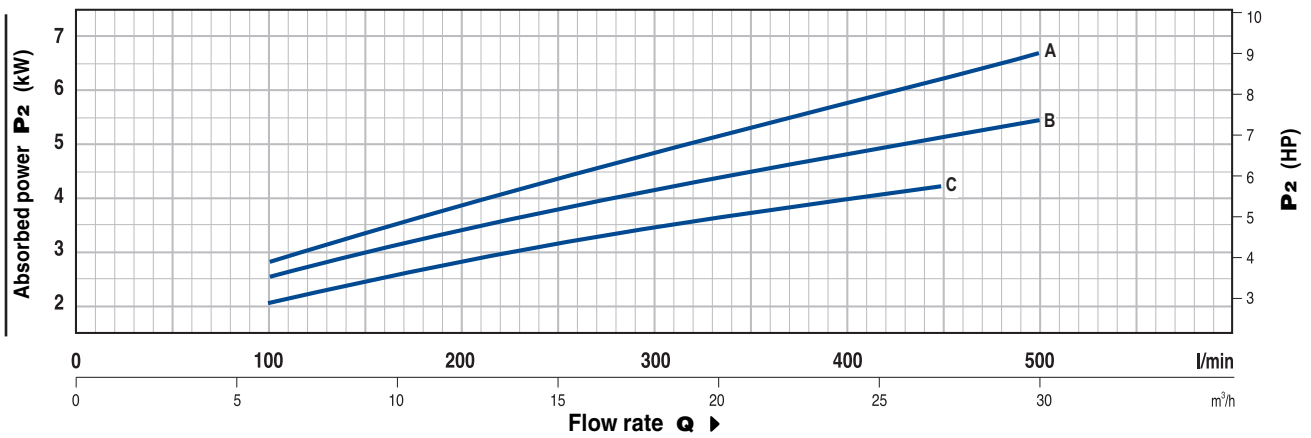
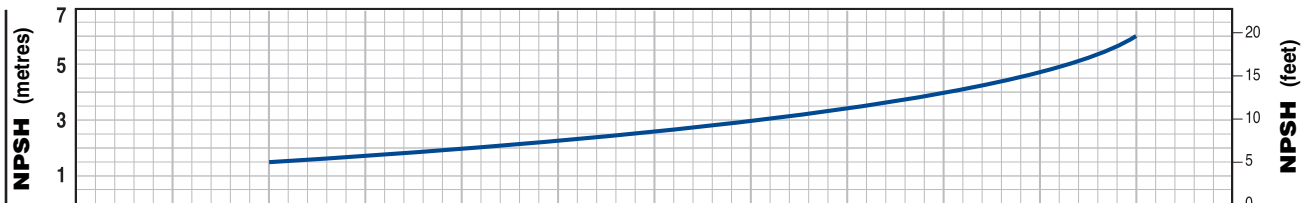
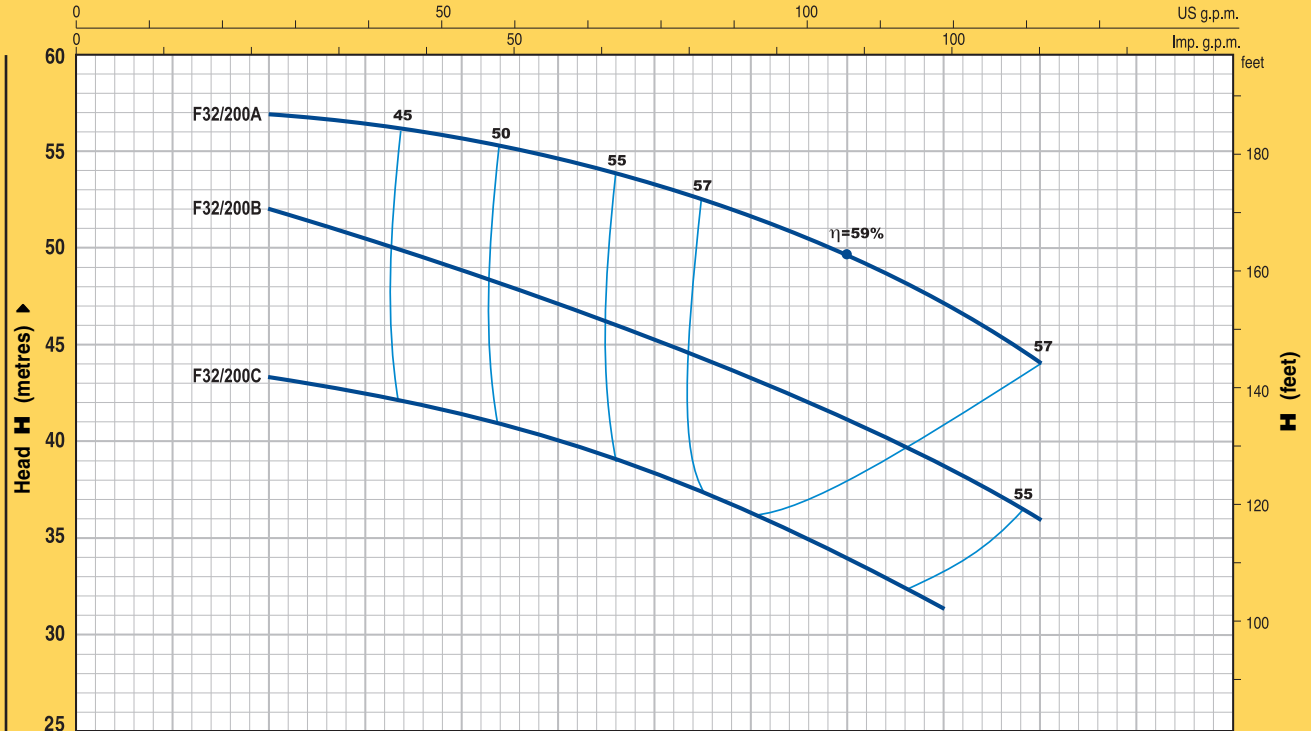


TYPE		POWER		Q	Flow rate										
Single-phase	Three-phase	kW	HP		m³/h	0	6	9	12	15	18	21	24	27	
Fm 32/160C	F 32/160C	1.5	2	H metres	0	100	150	200	250	300	350	400	450		
Fm 32/160B	F 32/160B	2.2	3		25	24	23	21	19	16	13				
Fm 32/160A	F 32/160A	3	4		31	30	29	28	26	23.5	20	16			
					38	37	36	34	32	30	27.5	24	20		

Q = Flow rate H = Total manometric head

Tolerance of the performance curves according to EN ISO 9906 App. A.

CURVES AND PERFORMANCE DATA AT n= 2900 1/min

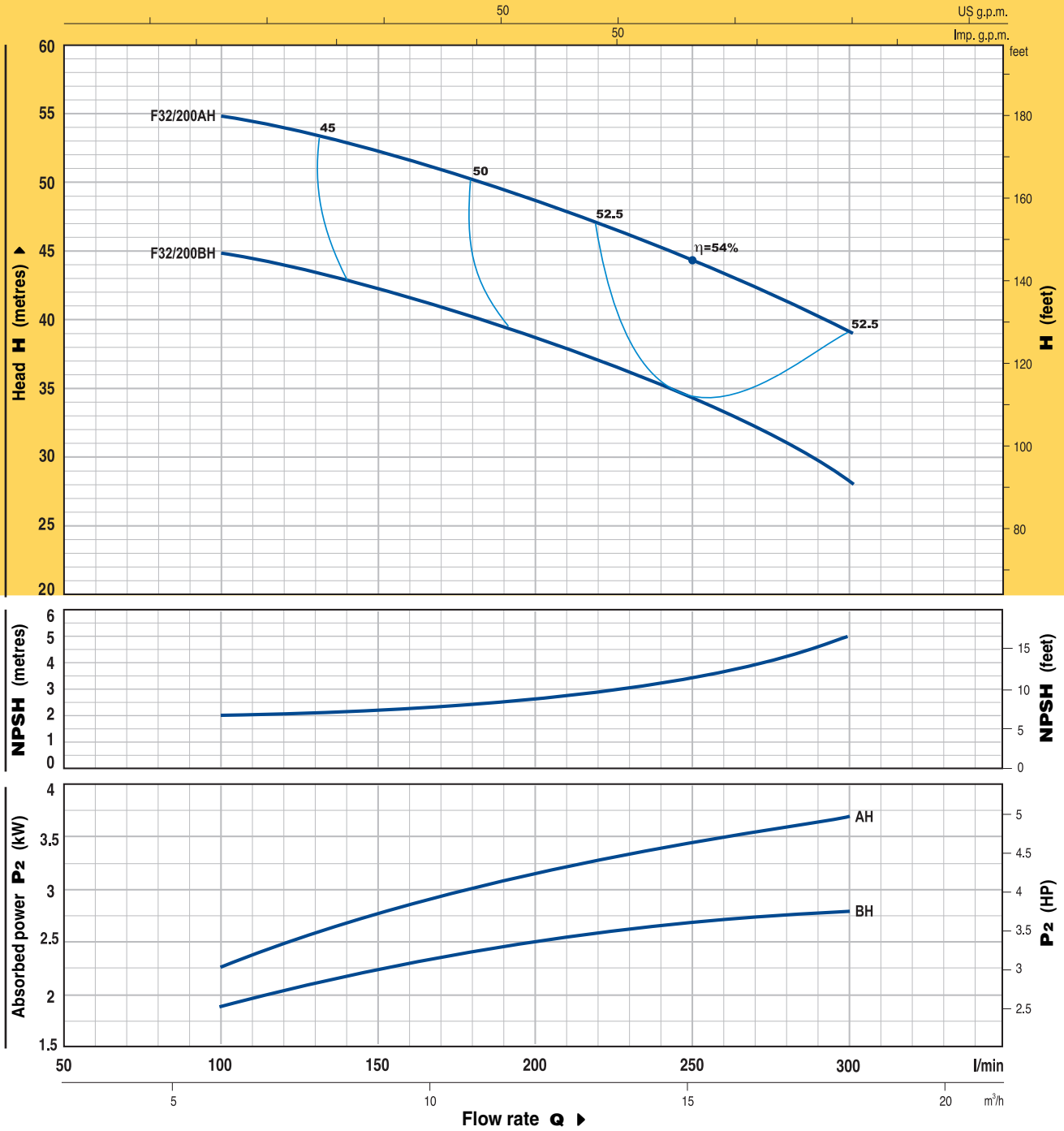


TYPE	POWER		Q	0	6	9	12	15	18	21	24	27	30
	kW	HP		0	100	150	200	250	300	350	400	450	500
Three-phase			H metres	46	44	43	41.5	40	38	36	34	31.5	
F 32/200C	4	5.5		54	52	50.5	49	47	45	43	41	38.5	36
F 32/200B	5.5	7.5		60	57	56.5	56	55	53	52	50	47	44

Q = Flow rate H = Total manometric head

Tolerance of the performance curves according to EN ISO 9906 App. A.

CURVES AND PERFORMANCE DATA AT n= 2900 1/min

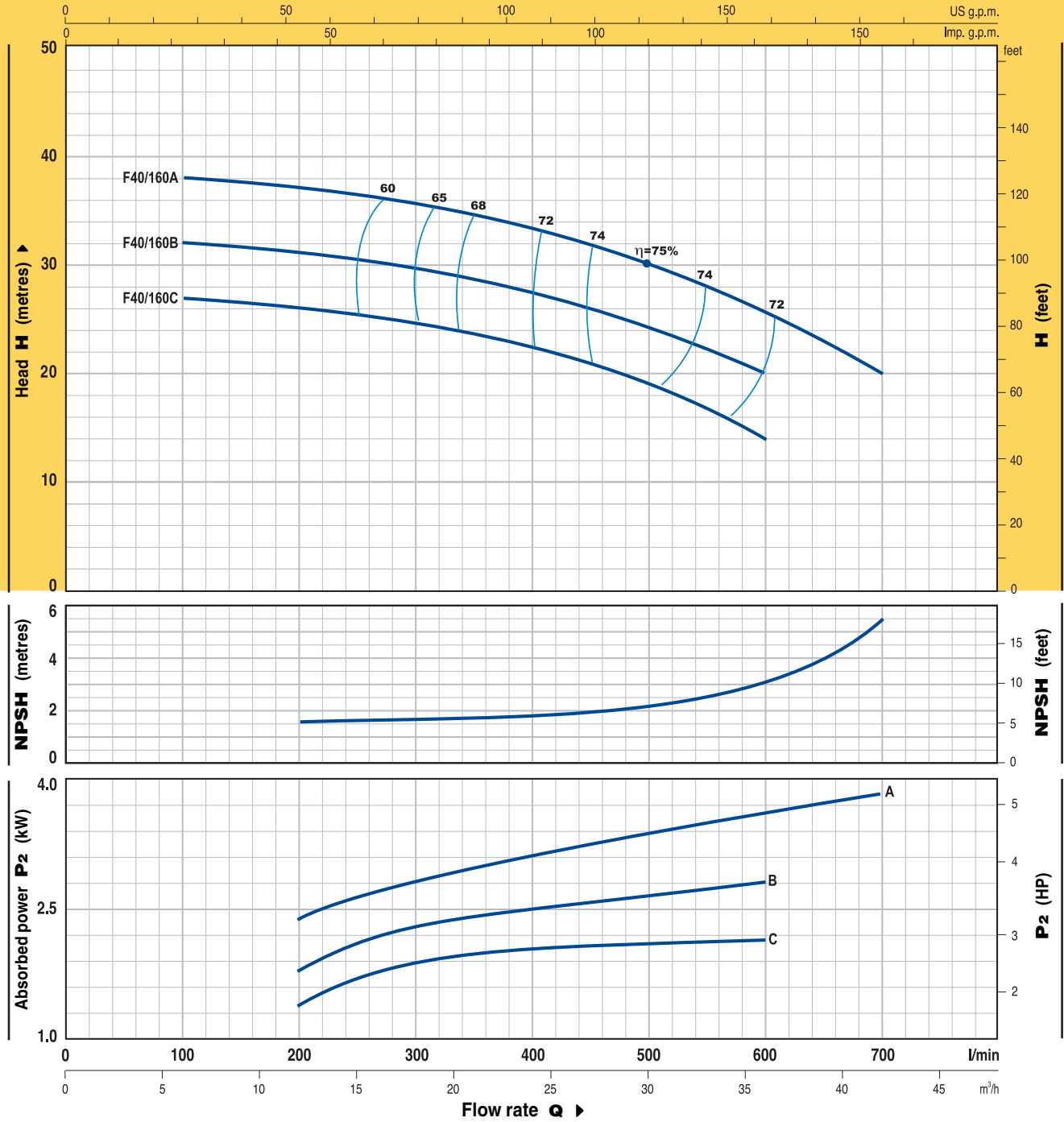


TYPE		POWER		Q	Flow rate					
Single-phase	Three-phase	kW	HP		0	6	9	12	15	18
Fm 32/200BH	F 32/200BH	3	4	l/min	0	100	150	200	250	300
—	F 32/200AH	4	5.5	H metres	49	45	42	39	34	28
					59	55	52	49	44	38

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CURVES AND PERFORMANCE DATA AT n= 2900 1/min

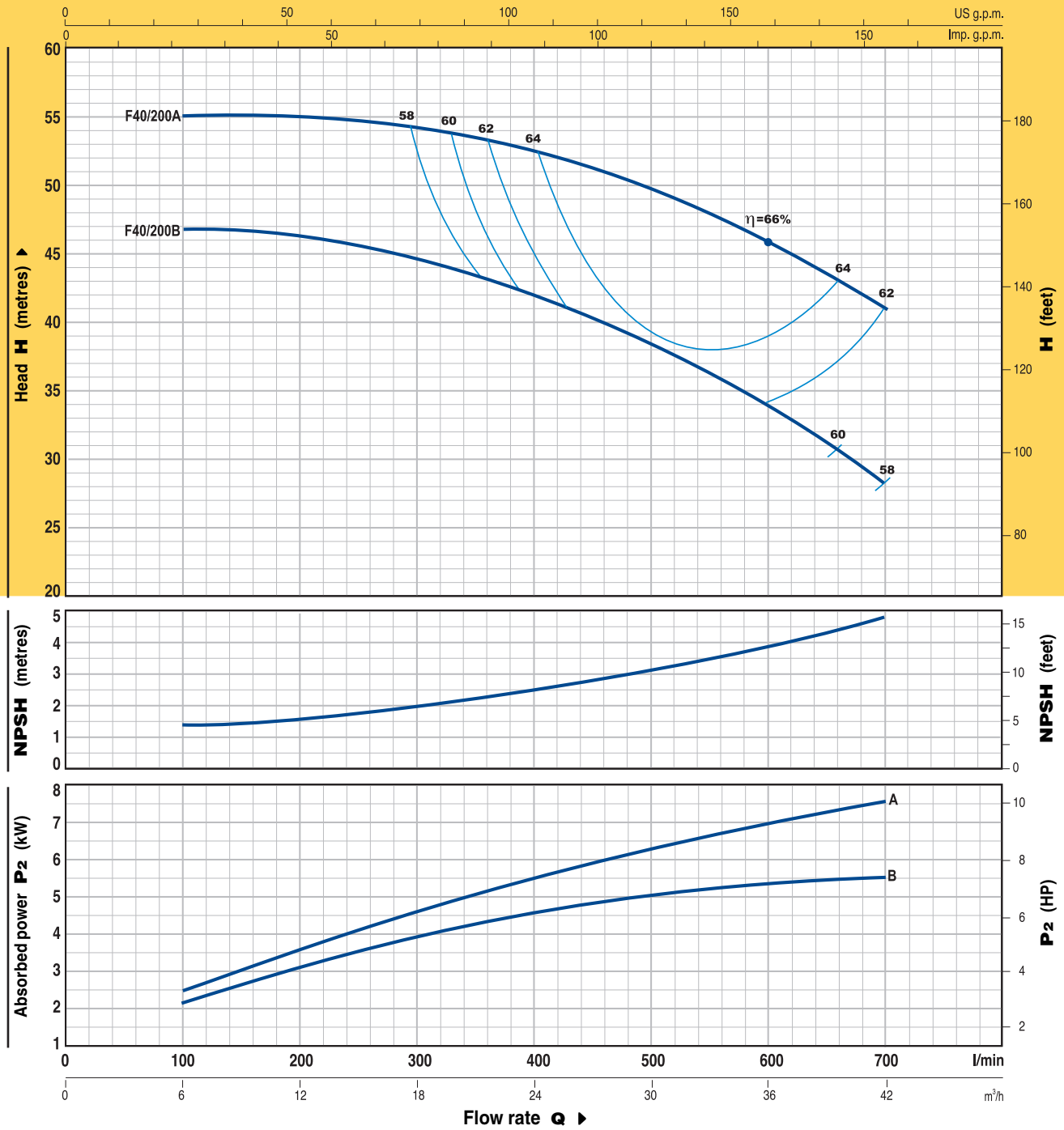


TYPE		POWER		Q	Flow rate											
Single-phase	Three-phase	kW	HP		0	6	9	12	15	18	24	30	36	42		
Fm 40/160C	F 40/160C	2.2	3	H metres	0	100	150	200	250	300	400	500	600	700		
Fm 40/160B	F 40/160B	3	4		27	27	26.5	26	25.5	25	22.5	19	14			
—	F 40/160A	4	5.5		32	32	31.5	31	30.5	30	27.5	24	20			
					38	38	37.8	37	36.5	36	33.5	30	26	20		

Q = Flow rate H = Total manometric head

Tolerance of the performance curves according to EN ISO 9906 App. A.

CURVES AND PERFORMANCE DATA AT n= 2900 1/min

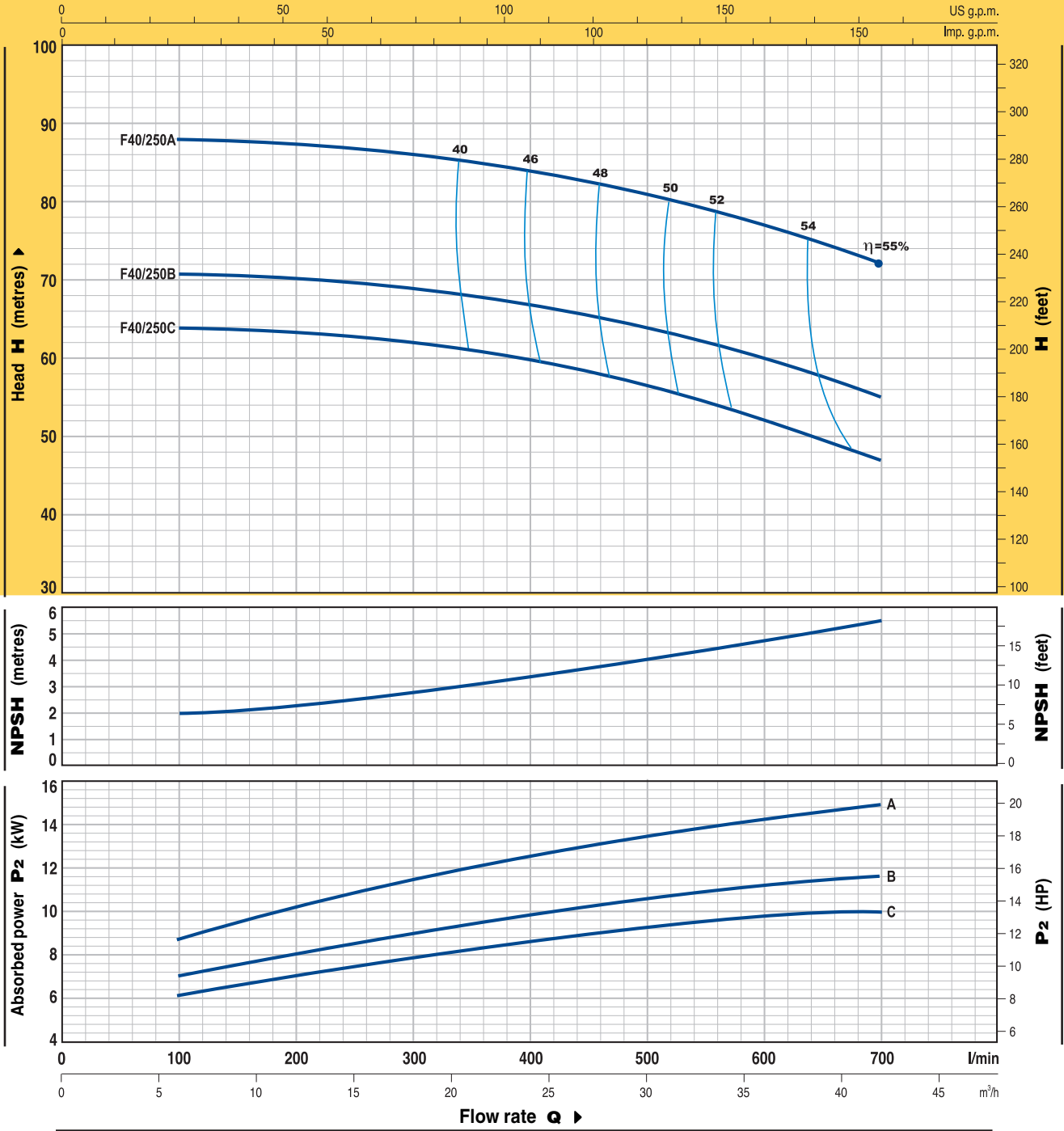


TYPE	POWER		Q	Flow rate											
	kW	HP		m ³ /h	0	6	9	12	15	18	24	30	36	42	
Three-phase			l/min	0	100	150	200	250	300	400	500	600	700		
F 40/200B	5.5	7.5	H metres	48	47	46.5	46	45.5	44.5	42	38	34	28		
F 40/200A	7.5	10		56	55	55	55	54.5	54	52.5	49.5	46	41		

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Tolerance of the performance curves according to EN ISO 9906 App. A.

CURVES AND PERFORMANCE DATA AT n= 2900 1/min

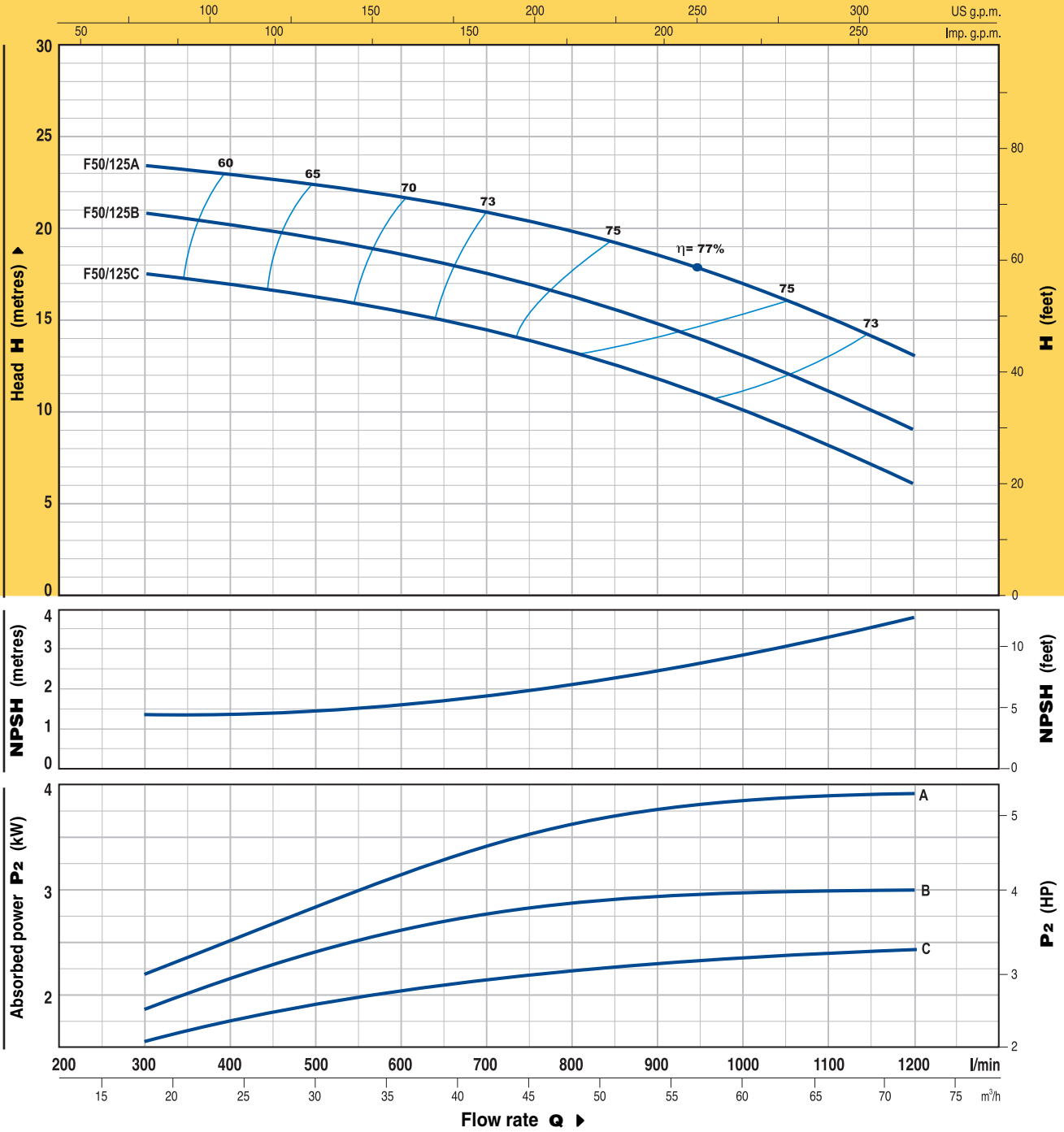


TYPE	POWER		Q	0	6	9	12	15	18	24	30	36	42
	kW	HP		0	100	150	200	250	300	400	500	600	700
F 40/250C	9.2	12.5	H metres	64	64	63.5	63	62.5	62	60	56.5	52.5	47
F 40/250B	11	15		71	71	70.5	70	69.5	69	67	64	60	55
F 40/250A	15	20		88	88	87.5	87	86.5	86	84	81	77	72

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CURVES AND PERFORMANCE DATA AT n= 2900 1/min

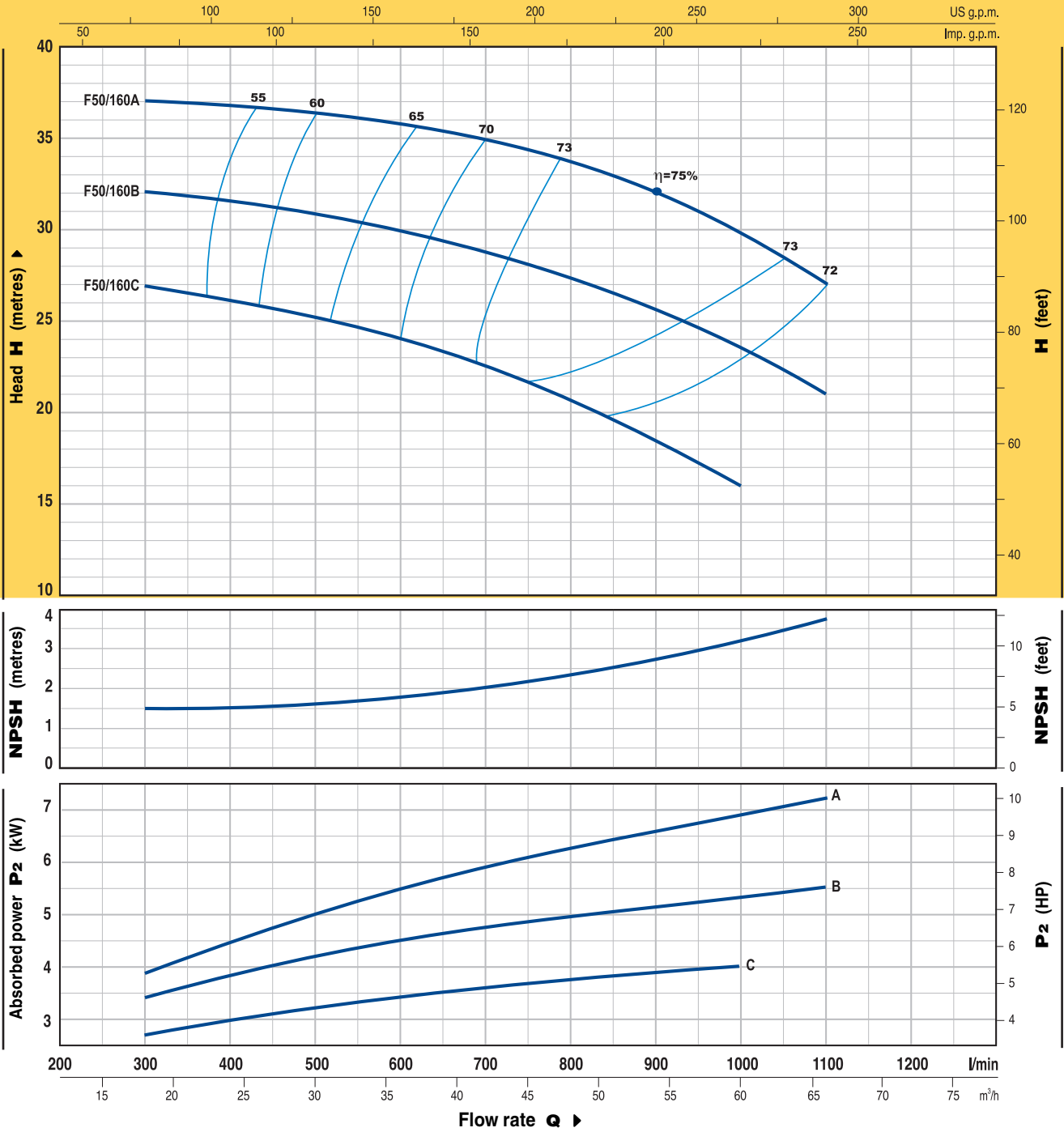


TYPE		POWER		Q m³/h l/min	0	18	24	30	36	42	48	54	60	66	72
Single-phase	Three-phase	kW	HP		0	300	400	500	600	700	800	900	1000	1100	1200
Fm 50/125C	F 50/125C	2.2	3	H metres	18.5	17.5	17	16.5	15.5	14.8	13.5	12	10.5	8.2	6
Fm 50/125B	F 50/125B	3	4		21.5	20.7	20	19.5	18.8	17.8	16.5	15	13.5	11.2	9
—	F 50/125A	4	5.5		24.5	23.5	23	22.5	21.8	20.8	19.5	18.3	16.8	15	13

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CURVES AND PERFORMANCE DATA AT n= 2900 1/min

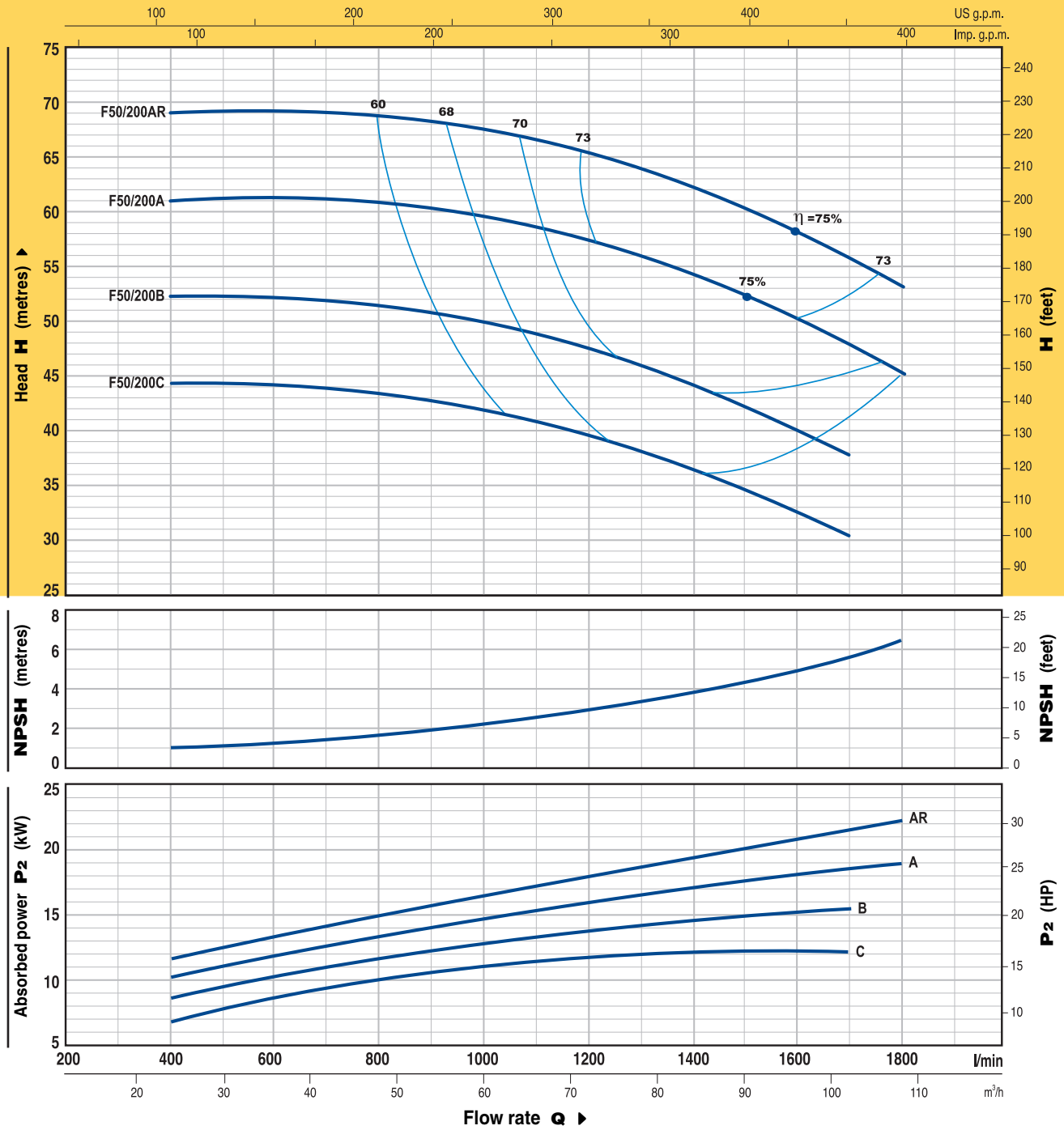


TYPE	POWER		Q	Flow rate											
	kW	HP		0	18	24	30	36	42	48	54	60	66		
Three-phase			Q	0	300	400	500	600	700	800	900	1000	1100		
F 50/160C	4	5.5	H metres	27	27	26.5	25	24.5	23	20	18.5	16			
F 50/160B	5.5	7.5		33	32	31.7	31	30	29	27	26	24	21		
F 50/160A	7.5	10		38	37	36.8	36.5	36	34	33	32	30	27		

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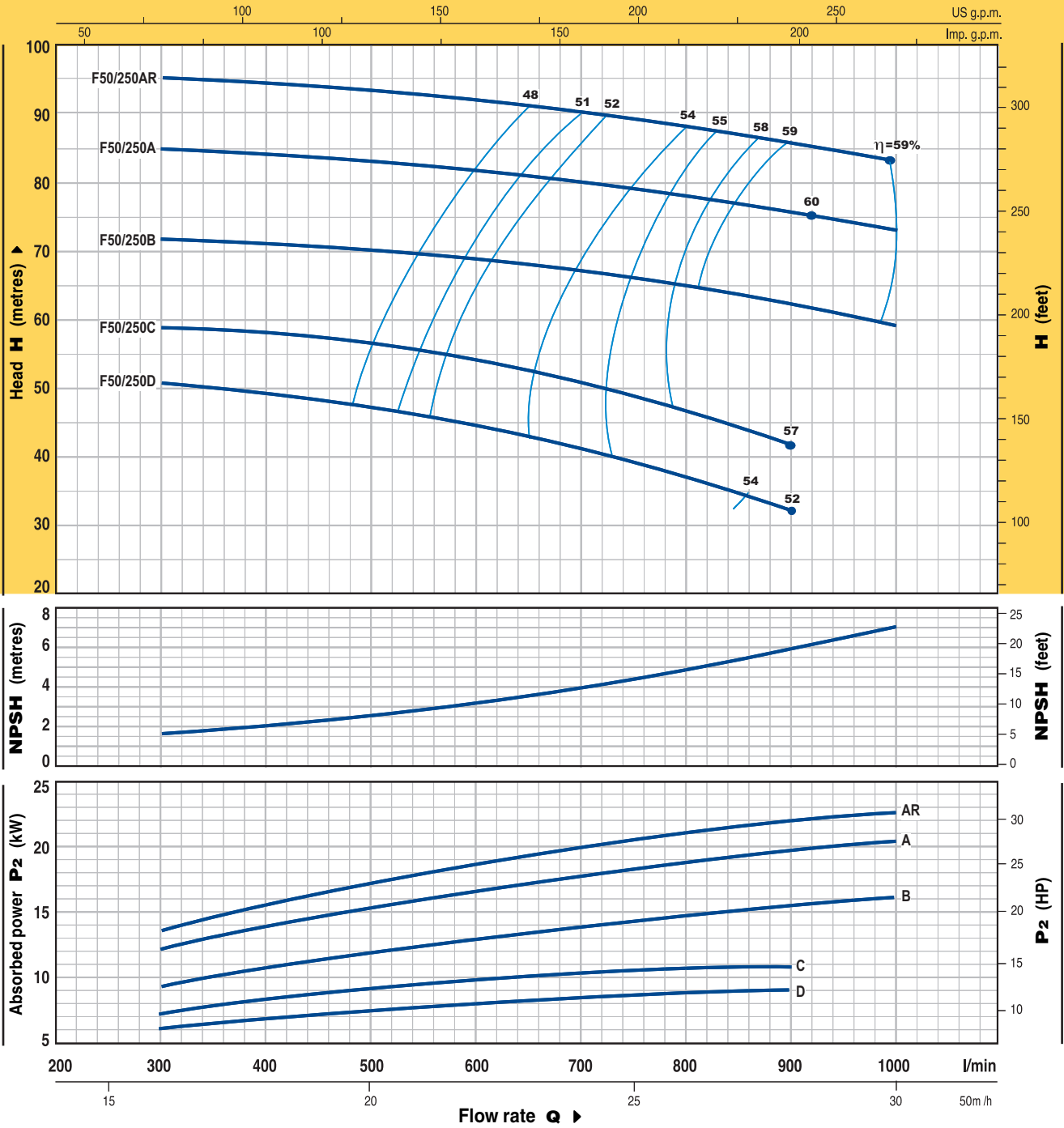


TYPE	POWER		Q	Flow rate										
	kW	HP		m³/h	24	36	48	60	72	84	96	102	108	
Three-phase			l/min	400	600	800	1000	1200	1400	1600	1700	1800		
F 50/200C	11	15	H metres	44	44	44	42	39	36	33	30			
F 50/200B	15	20		52	52	52	50	47	44	40	38			
F 50/200A	18.5	25		61	61	60.5	60	57	54	50	48	45		
F 50/200AR	22	30		69	69	68.5	68	65	62	58	56	53		

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CURVES AND PERFORMANCE DATA AT n= 2900 1/min

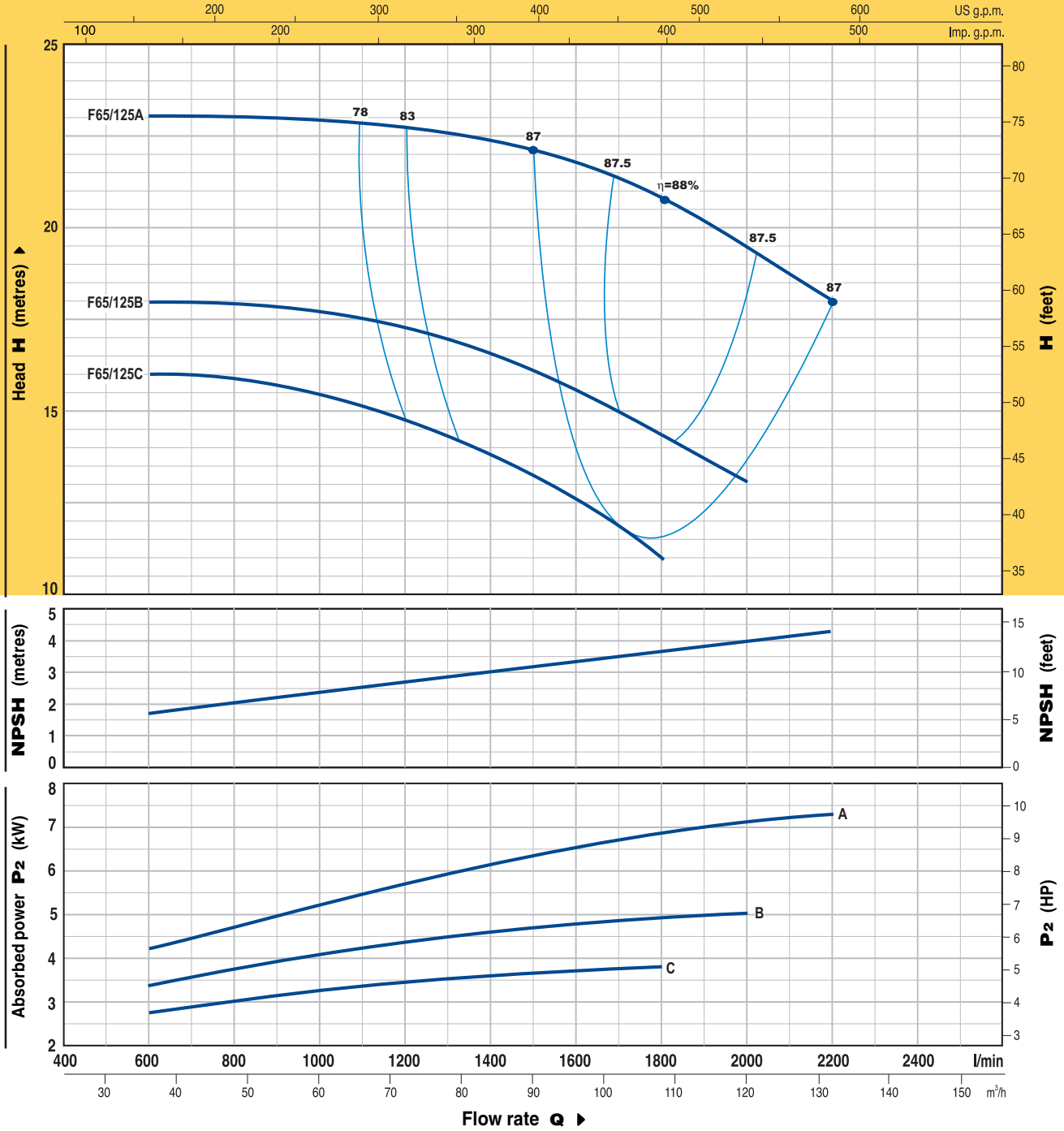


TYPE	POWER		Q	0	18	24	30	36	42	48	54	60
	kW	HP		0	300	400	500	600	700	800	900	1000
F 50/250D	9.2	12.5	H metres	51	51	49	47	44	41	37	32	
F 50/250C	11	15		59	59	58	57	54	51	47	42	
F 50/250B	15	20		72	72	71	70	69	67	65	62	59
F 50/250A	18.5	25		85	85	84	83	82	80	78	76	73
F 50/250AR	22	30		95	95	94	93	92	90	88	86	83

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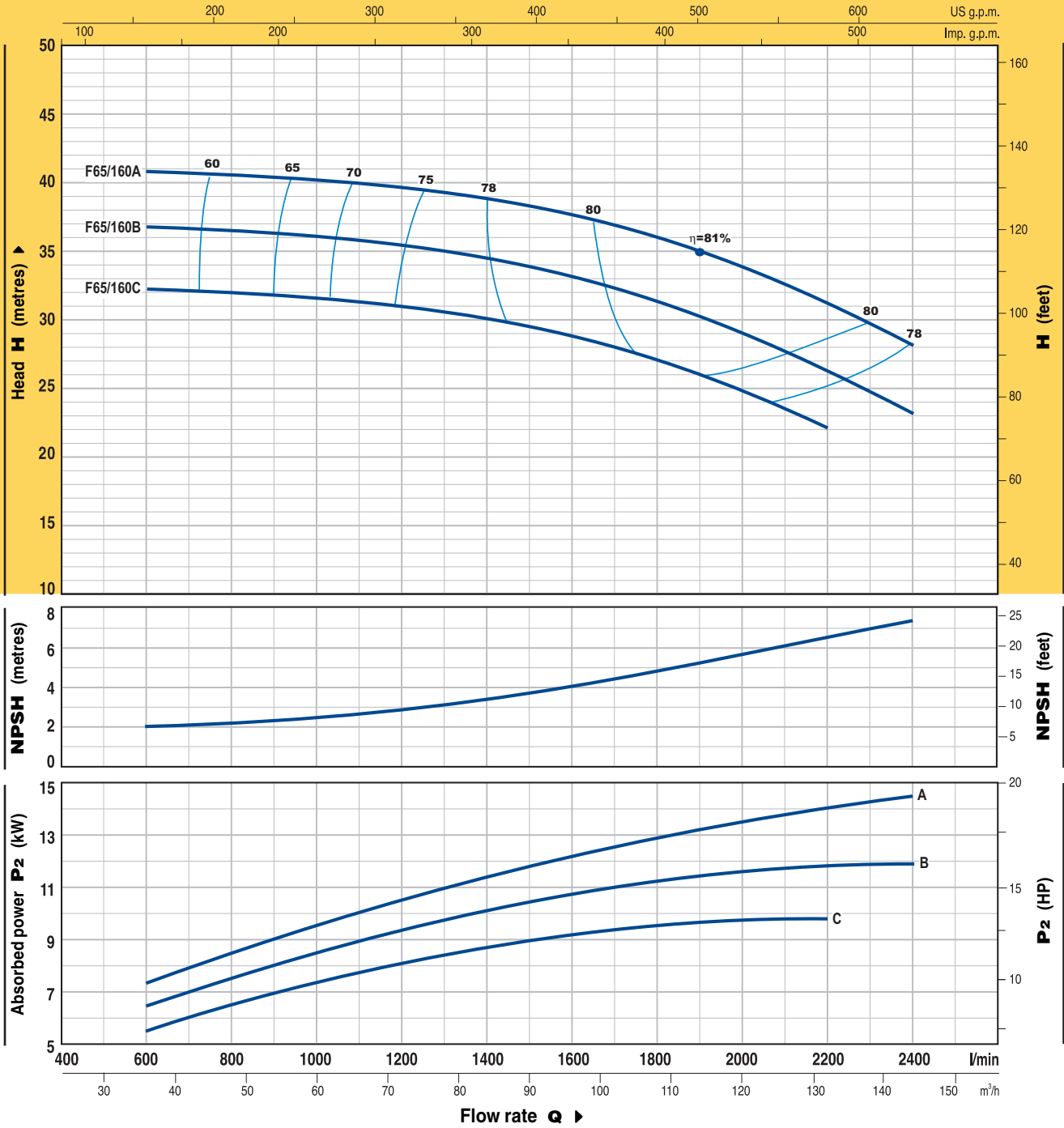


TYPE	POWER		Q	Flow rate											
	kW	HP		m³/h	0	36	48	60	72	84	96	108	120	132	
Three-phase			l/min	0	600	800	1000	1200	1400	1600	1800	2000	2200		
F 65/125C	4	5.5	H metres	16	16	16	15.5	14.5	13.5	12.5	11				
F 65/125B	5.5	7.5		18	18	18	18	17	16.5	15.5	14.5	13			
F 65/125A	7.5	10		23	23	23	23	22.5	22.5	22	21	19.5	18		

Q = Flow rate H = Total manometric head

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CURVES AND PERFORMANCE DATA AT n= 2900 1/min

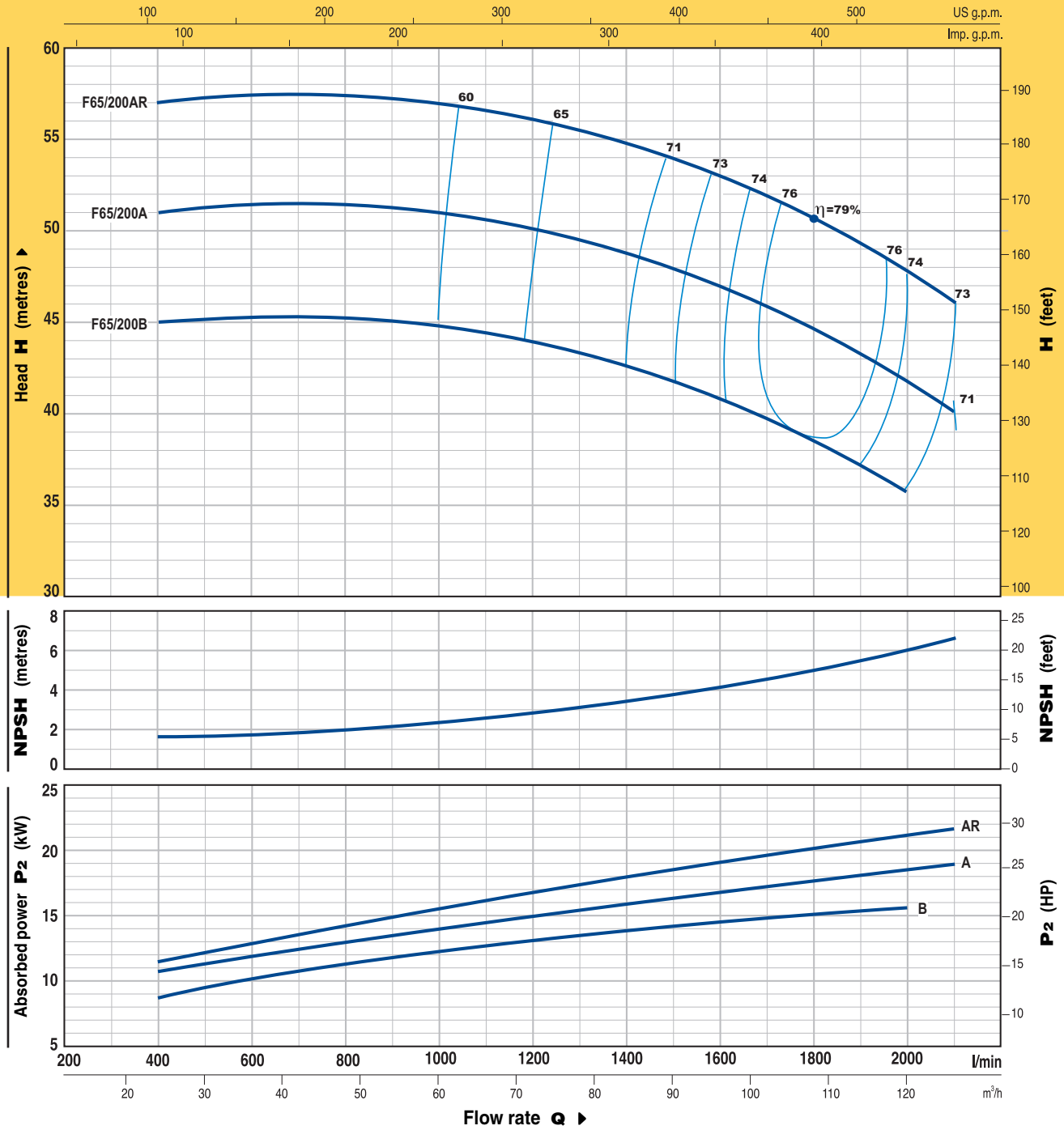


TYPE	POWER		m ³ /h Q l/min	Flow rate Q											
	kW	HP		0	36	48	60	72	84	96	108	120	132	144	
Three-phase				0	600	800	1000	1200	1400	1600	1800	2000	2200	2400	
F 65/160C	9.2	12.5	H metres	32	32	32	32	32	30	29	27	25	22		
F 65/160B	11	15		37	36.5	36.5	36	35.5	34	33	31	29	26	23	
F 65/160A	15	20		41	40.5	40.5	40	35.5	39	37.5	36	34	31	28	

Q = Flow rate H = Total manometric head

Tolerance of the performance curves according to EN ISO 9906 App. A.

CURVES AND PERFORMANCE DATA AT n= 2900 1/min

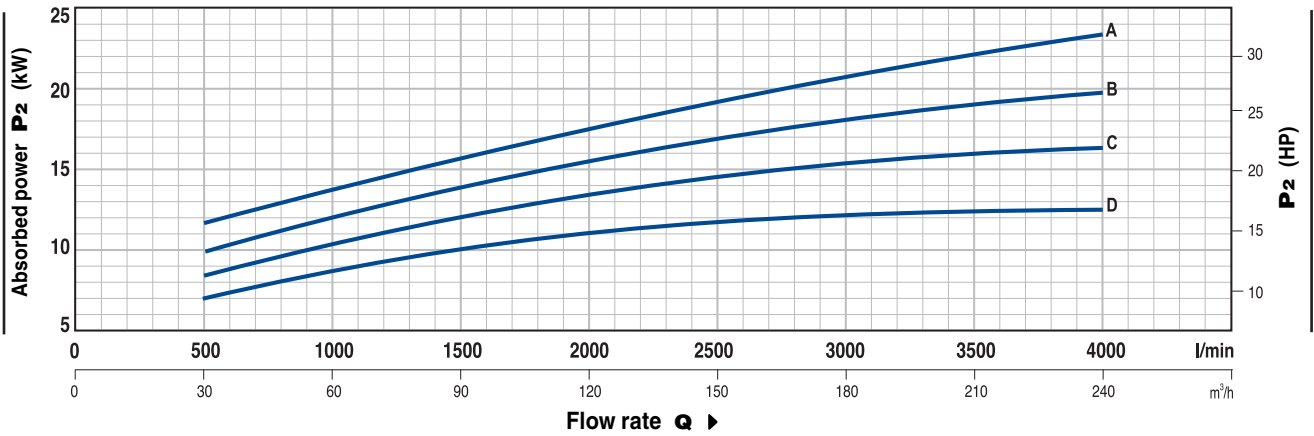
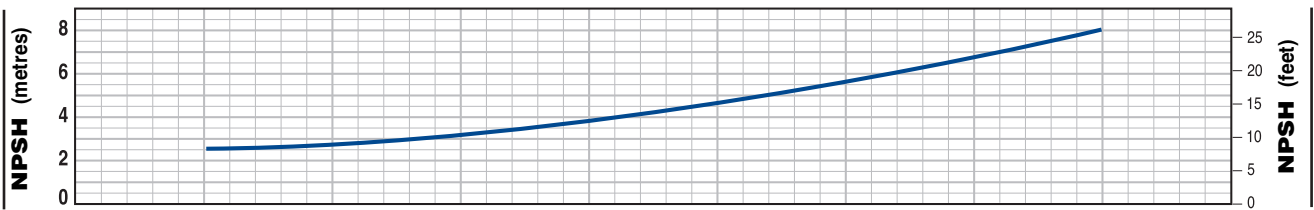
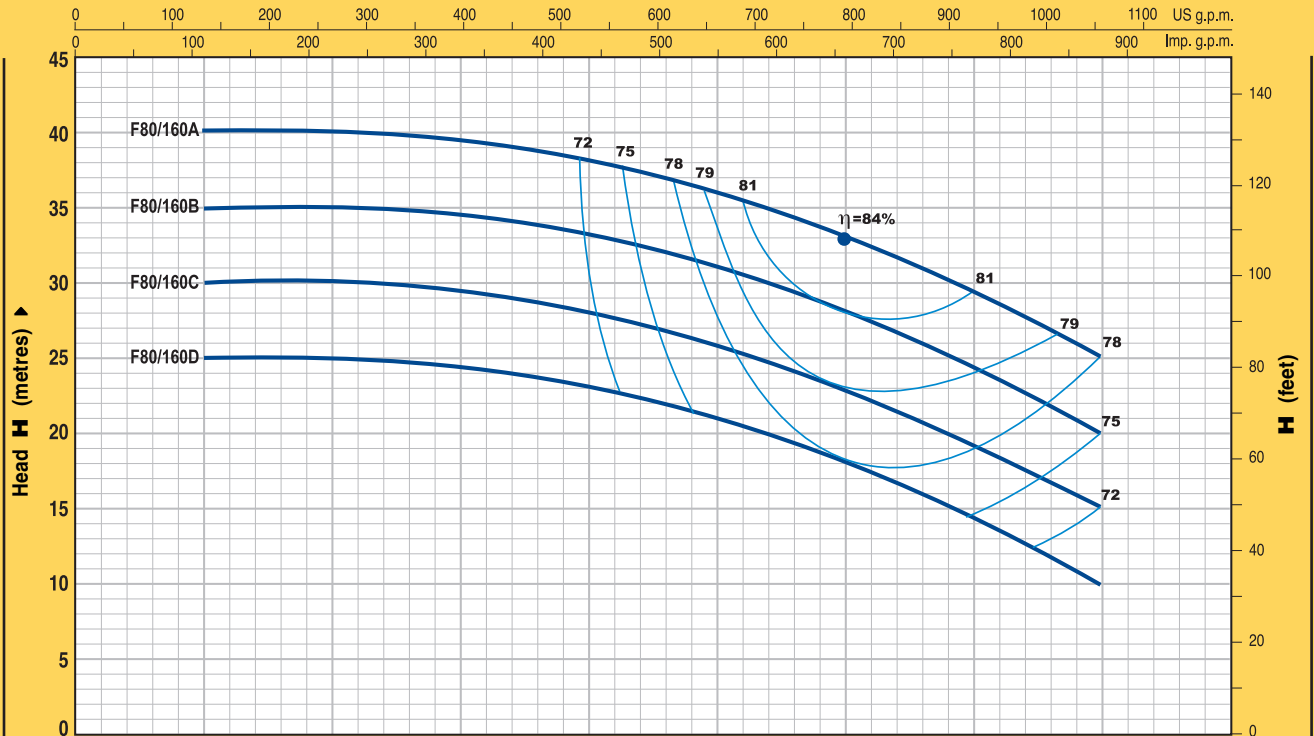


TYPE	POWER		Q	24	36	48	60	72	84	96	108	120	126
	kW	HP		l/min	400	600	800	1000	1200	1400	1600	1800	2000
F 65/200B	15	20	H metres	45	45	45	45	44	42.5	41	38.5	35.5	
F 65/200A	18.5	25		51	51	51	51	50	49	47	44.5	41.5	40
F 65/200AR	22	30		57	57	57	57	56	55	53	50.5	47.5	46

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Tolerance of the performance curves according to EN ISO 9906 App. A.

CURVES AND PERFORMANCE DATA AT n= 2900 1/min

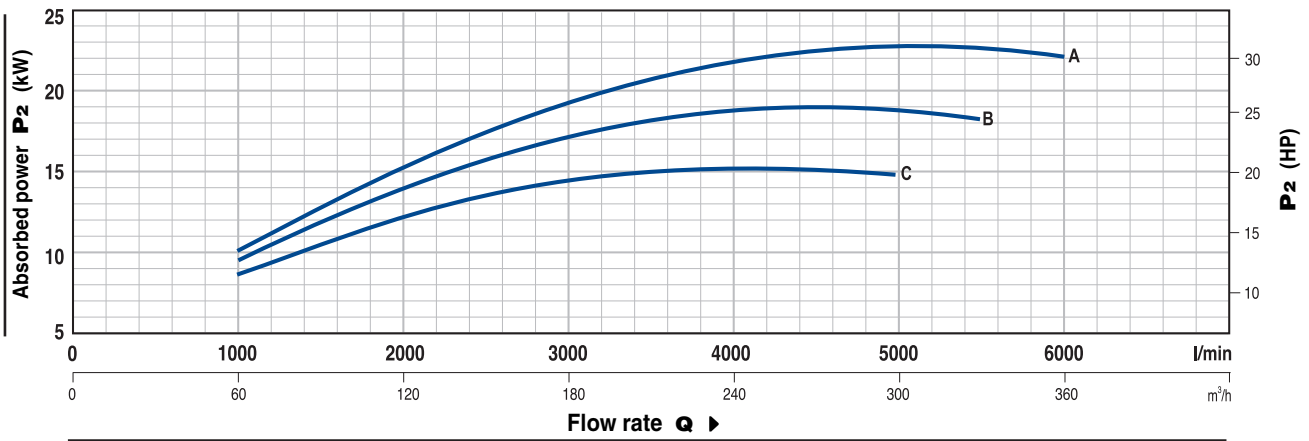
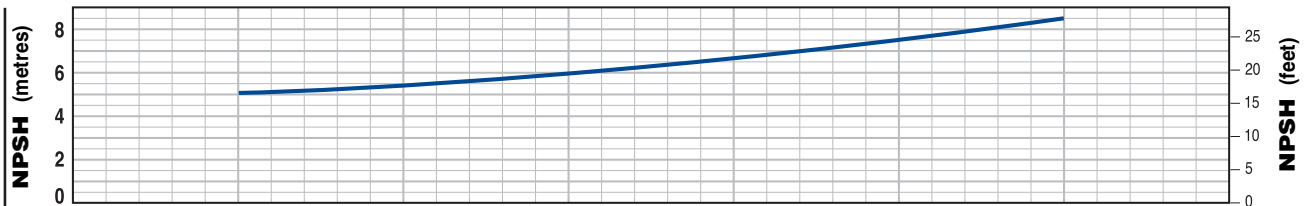
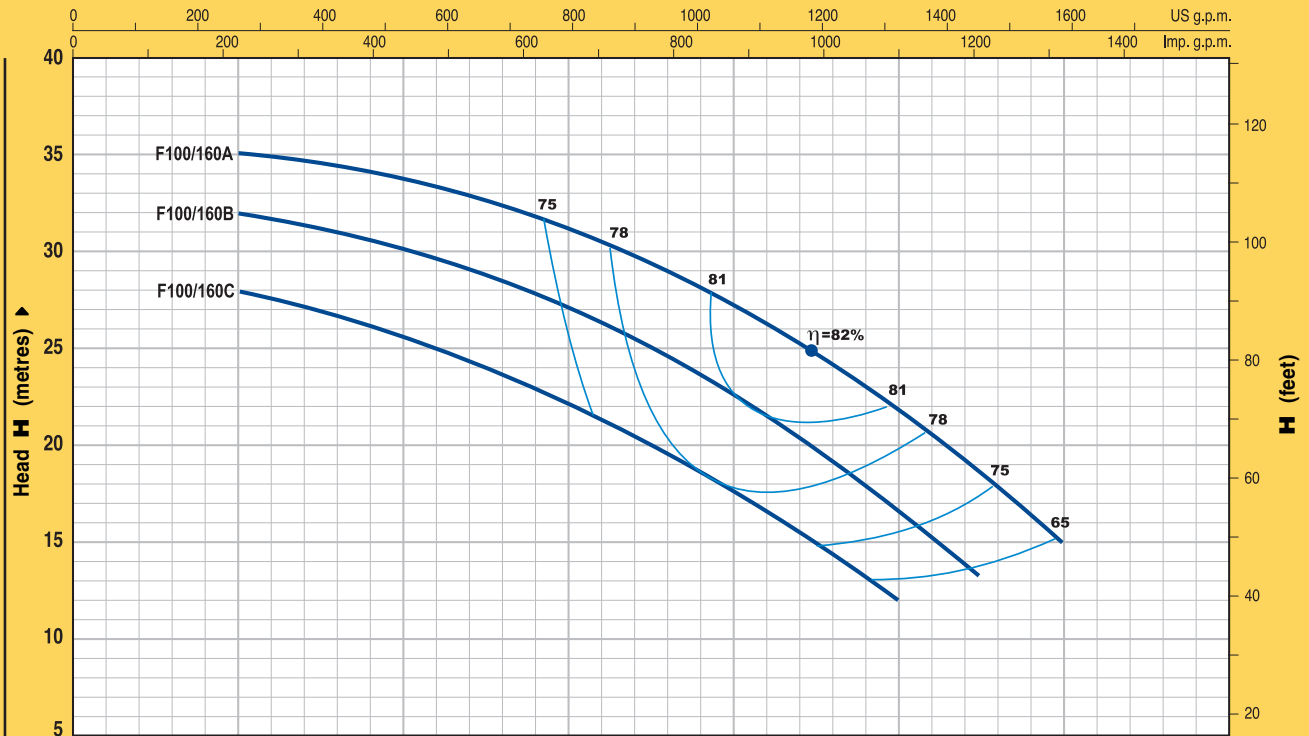


TYPE	POWER		Q	Flow rate										
	kW	HP		m ³ /h	0	30	60	90	120	150	180	210	240	
Three-phase			l/min	0	500	1000	1500	2000	2500	3000	3500	4000		
F 80/160D	11	15	H metres	25	25	25	24.5	23.5	21	18	14.5	10		
F 80/160C	15	20		30	30	30	29.5	28.5	26	23	19.5	15		
F 80/160B	18.5	25		35	35	35	34.5	33.5	31	28	24.5	20		
F 80/160A	22	30		40	40	40	39.5	38.5	36	33	29.5	25		

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CURVES AND PERFORMANCE DATA AT n= 2900 1/min

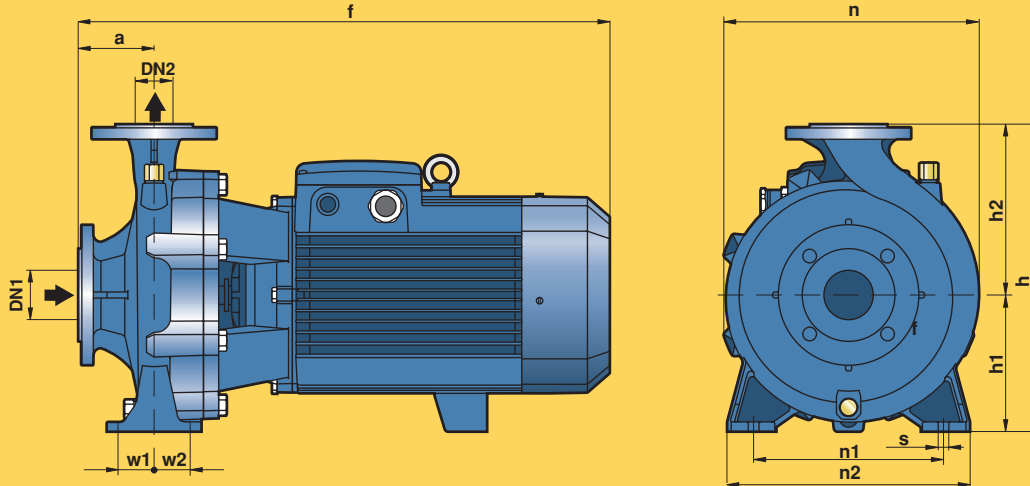


TYPE	POWER		Q	Flow rate											
	kW	HP		m ³ /h	0	60	120	180	240	270	300	330	360		
Three-phase			l/min	0	1000	2000	3000	4000	4500	5000	5500	6000			
F 100/160C	15	20	H metres	28	28	25.5	22	17.5	15	12					
F 100/160B	18.5	25		32	32	30	27	22.5	19.5	17	13				
F 100/160A	22	30		35	35	34	31	27	24.5	22	18	15			

Q = Flow rate H = Total manometric head

Tolerance of the performance curves according to EN ISO 9906 App. A.

DIMENSIONS AND WEIGHTS



TYPE		PORTS		DIMENSIONS mm											kg*													
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	h2	n	n1	n2	w1	w2	s	1~	3~												
Fm 32/160C	F 32/160C	50	32	80	412	292	132	160	242	190	240	35	35	14	39.2	38.4												
Fm 32/160B	F 32/160B				431/412										42.6	39.2												
Fm 32/160A	F 32/160A				465/431										49.2	42.6												
---	F 32/200C				469										-	52.1												
---	F 32/200B				515										-	57.0												
---	F 32/200A				469										-	63.0												
Fm 32/200BH	F 32/200BH				431/412										53.8	48.5												
---	F 32/200AH				465/431										-	52.8												
Fm 40/160C	F 40/160C				65										40	80	431/412	292	132	160	240	212	265	47.5	47.5	14	43.9	41.2
Fm 40/160B	F 40/160B																465/431										50.5	43.9
---	F 40/160A	465	-	50.5																								
---	F 40/200B	535	-	61.4																								
---	F 40/200A	535	-	65.9																								
---	F 40/250C	606	-	108.0																								
---	F 40/250B	701	-	115.0																								
---	F 40/250A	450/431	-	132.0																								
Fm 50/125C	F 50/125C	65	50	100		484	292	132	160	242	190	240	35	35			14										44.2	41.4
Fm 50/125B	F 50/125B					484																					50.5	44.2
---	F 50/125A				489	-									50.5													
---	F 50/160C				535	-									55.5													
---	F 50/160B				535	-									60.5													
---	F 50/160A				616	-									65.0													
---	F 50/200C				711	-									105.3													
---	F 50/200B				711	-									121.7													
---	F 50/200A				743	-									134.2													
---	F 50/200AR				743	-									145.7													
---	F 50/250D	606	-	111.0																								
---	F 50/250C	701	-	118.0																								
---	F 50/250B	701	-	135.0																								
---	F 50/250A	733	-	148.0																								
---	F 50/250AR	733	-	159.5																								
---	F 65/125C	80	65	125	511	340	160	180	291	212	280	47.5	47.5	14	-	62.0												
---	F 65/125B				557										-	67.7												
---	F 65/125A				621										-	72.0												
---	F 65/160C				621										-	100.0												
---	F 65/160B				360										-	107.0												
---	F 65/160A				716										-	123.0												
---	F 65/200B				719										-	128.0												
---	F 65/200A				719										-	141.5												
---	F 65/200AR				751										-	153.0												
---	F 80/160D				652										-	112.5												
---	F 80/160C	747	-	129.5																								
---	F 80/160B	779	-	142.5																								
---	F 80/160A	779	-	154.0																								
---	F 100/160C	125	100	125	758	480	200	280	362	280	360	60	60	18	-	141.2												
---	F 100/160B				790										-	153.7												
---	F 100/160A				790										-	165.2												

(*weight includes counterflanges)

DN FLANGES mm	t mm	u mm	HOLES	
			N°	Ø (mm)
32	140	100	4	18
40	150	110		
50	165	125		
65	185	145		
80	200	160	8	18
100	220	180		
125	250	210		

