

Standardised “EN 733” centrifugal pumps

 Clean water

 Industrial use



PERFORMANCE RANGE

- Flow rate up to **6000 l/min** (360 m³/h)
- Head up to **98 m**

APPLICATION LIMITS

- Manometric suction lift up to **7 m**
- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature between **-10 °C** and **+55 °C**
- Max. pressure in pump body **10 bar** (PN10)
- Continuous service **S1**

CONSTRUCTION AND SAFETY STANDARDS

EN 60335-1
IEC 60335-1
CEI 61-150

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



Pump body dimensions in compliance with **EN 733**

CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY
ISO 14001: ENVIRONMENT

INSTALLATION AND USE

- Water supply
- Pressure boosting
- Irrigation
- Water circulation in air-conditioning units
- Cleaning sets
- Firefighting sets
- Industrial applications
- Agricultural applications

The pump should be installed in an enclosed environment or sheltered from inclement weather.

OPTIONS AVAILABLE ON REQUEST

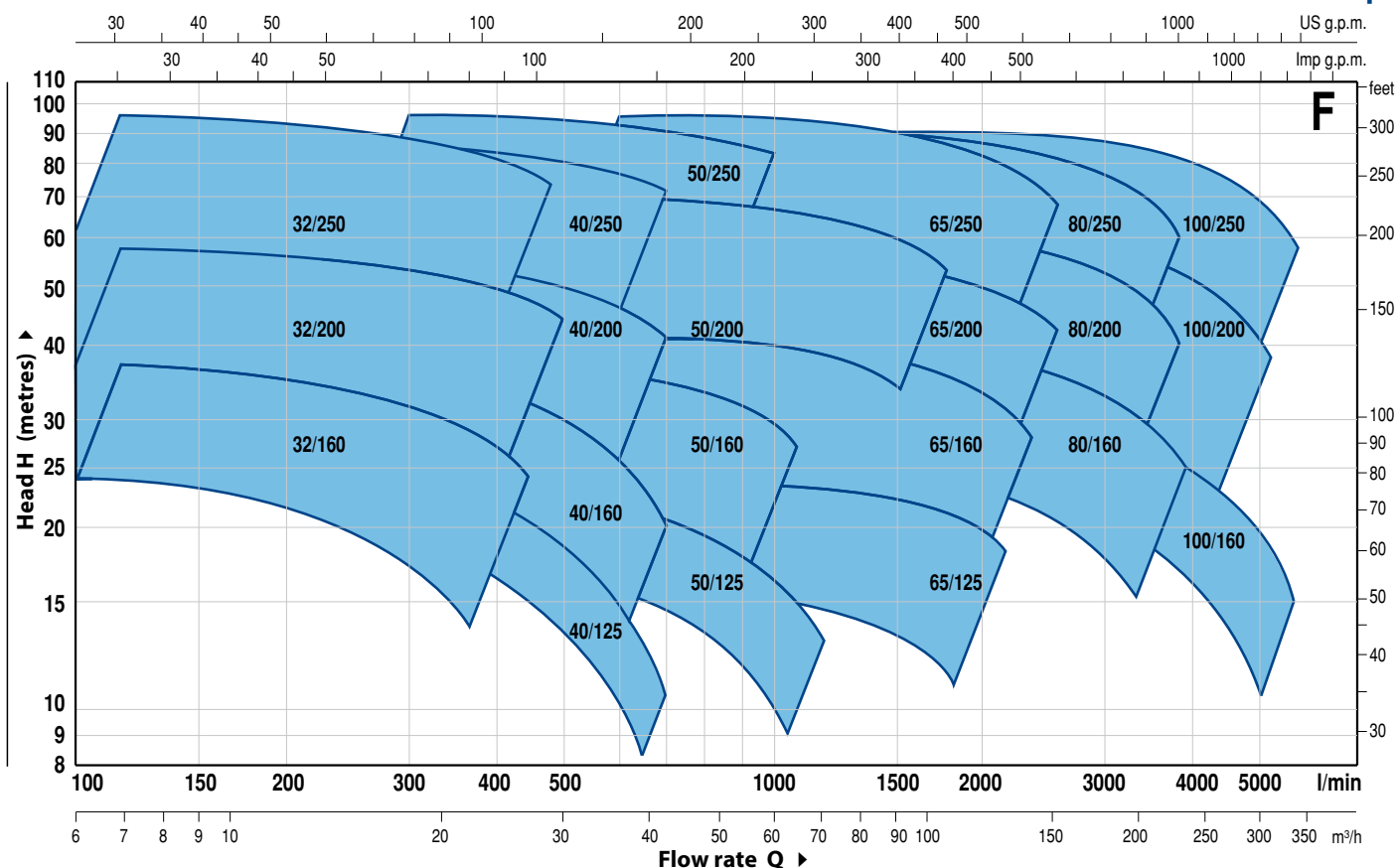
- Counter flange KIT complete with bolts, nuts and washers
- Special mechanical seal
- Other voltages
- Compatibility with hotter or colder liquids
- Compatibility with hotter or colder environments

GUARANTEE

2 years subject to terms and conditions

PERFORMANCE RANGE

60 Hz n = 3450 rpm



PERFORMANCE DATA

60 Hz n = 3450 rpm

MODEL	POWER (P ₂)		▲	PERFORMANCE	
	Three-phase	kW	HP	Q l/min	H metres
F 32/160C	1.5	2	IE3	100 ÷ 350	24 ÷ 14
F 32/160B	2.2	3		100 ÷ 400	30 ÷ 17
F 32/160A	3	4		100 ÷ 450	37 ÷ 24
F 32/200C	4	5.5	IE3	100 ÷ 450	44 ÷ 31.5
F 32/200B	5.5	7.5		100 ÷ 500	51 ÷ 36
F 32/200A	7.5	10		100 ÷ 500	57 ÷ 44
F 32/200BH	3	4	IE3	100 ÷ 300	45 ÷ 37
F 32/200AH	4	5.5		100 ÷ 320	55 ÷ 44
F 32/250C	9.2	12.5		100 ÷ 400	75 ÷ 55
F 32/250B	11	15	IE3	100 ÷ 450	87 ÷ 62
F 32/250A	15	20		100 ÷ 480	97 ÷ 70
F 40/125C	1.1	1.5	IE2	100 ÷ 550	16 ÷ 6
F 40/125B	1.5	2	IE3	100 ÷ 600	20.5 ÷ 9
F 40/125A	2.2	3		100 ÷ 700	26 ÷ 10
F 40/160C	2.2	3		100 ÷ 600	27 ÷ 14
F 40/160B	3	4	IE3	100 ÷ 600	32 ÷ 20
F 40/160A	4	5.5		100 ÷ 700	38 ÷ 20
F 40/200B	5.5	7.5		100 ÷ 700	47 ÷ 28
F 40/200A	7.5	10	IE3	100 ÷ 700	55 ÷ 41
F 40/250C	9.2	12.5		100 ÷ 700	64 ÷ 47
F 40/250B	11	15		100 ÷ 700	71 ÷ 55
F 40/250A	15	20	IE3	100 ÷ 700	88 ÷ 72
F 50/125C	2.2	3		300 ÷ 1200	17.5 ÷ 6
F 50/125B	3	4	IE3	300 ÷ 1200	20.7 ÷ 9
F 50/125A	4	5.5		300 ÷ 1200	23.5 ÷ 13
F 50/160C	4	5.5		300 ÷ 1000	27 ÷ 16
F 50/160B	5.5	7.5	IE3	300 ÷ 1100	32 ÷ 21
F 50/160A	7.5	10		300 ÷ 1100	37 ÷ 27
F 50/200C	11	15		400 ÷ 1700	44 ÷ 30
F 50/200B	15	20	IE3	400 ÷ 1700	52 ÷ 38
F 50/200A	18.5	25		400 ÷ 1800	61 ÷ 45
F 50/200AR	22	30		400 ÷ 1800	69 ÷ 53
F 50/250D	9.2	12.5	IE3	300 ÷ 900	51 ÷ 32
F 50/250C	11	15		300 ÷ 900	59 ÷ 42
F 50/250B	15	20		300 ÷ 1000	72 ÷ 59
F 50/250A	18.5	25	IE3	300 ÷ 1000	85 ÷ 73
F 50/250AR	22	30		300 ÷ 1000	95 ÷ 83

MODEL	POWER (P ₂)		▲	PERFORMANCE	
	Three-phase	kW	HP	Q l/min	H metres
F 65/125C	4	5.5	IE3	600 ÷ 1800	16 ÷ 11
F 65/125B	5.5	7.5		600 ÷ 2000	18 ÷ 13
F 65/125A	7.5	10		600 ÷ 2200	23 ÷ 18
F 65/160C	9.2	12.5	IE3	600 ÷ 2200	32 ÷ 22
F 65/160B	11	15		600 ÷ 2400	36.5 ÷ 23
F 65/160A	15	20		600 ÷ 2400	40.5 ÷ 28
F 65/200B	15	20	IE3	200 ÷ 2400	44 ÷ 30.5
F 65/200A	18.5	25		200 ÷ 2500	50 ÷ 36.5
F 65/200AR	22	30		200 ÷ 2600	57 ÷ 42
F 65/250C	30	40	IE3	400 ÷ 2350	76 ÷ 53
F 65/250B	37	50		400 ÷ 2500	87 ÷ 62
F 65/250A	45	60		400 ÷ 2600	95 ÷ 68
F 80/160D	11	15	IE3	500 ÷ 4000	25 ÷ 10
F 80/160C	15	20		500 ÷ 4000	30 ÷ 15
F 80/160B	18.5	25		500 ÷ 4000	35 ÷ 20
F 80/160A	22	30	IE3	500 ÷ 4000	40 ÷ 25
F 80/200B	30	40		500 ÷ 3650	56 ÷ 34.5
F 80/200A	37	50		500 ÷ 3900	62 ÷ 40
F 80/250B	45	60	IE3	600 ÷ 3600	77 ÷ 54
F 80/250A	55	75		600 ÷ 3900	88.5 ÷ 60
F 100/160A	22	30	IE3	1000 ÷ 6000	35 ÷ 15
F 100/200C	30	40		833 ÷ 4650	51 ÷ 28
F 100/200B	37	50		833 ÷ 4900	57 ÷ 33
F 100/200A	45	60	IE3	833 ÷ 5250	63 ÷ 38
F 100/250B	55	75		800 ÷ 5150	75 ÷ 48
F 100/250A	75	100		800 ÷ 5750	89 ÷ 58

Q = Flow rate

H = Total manometric head

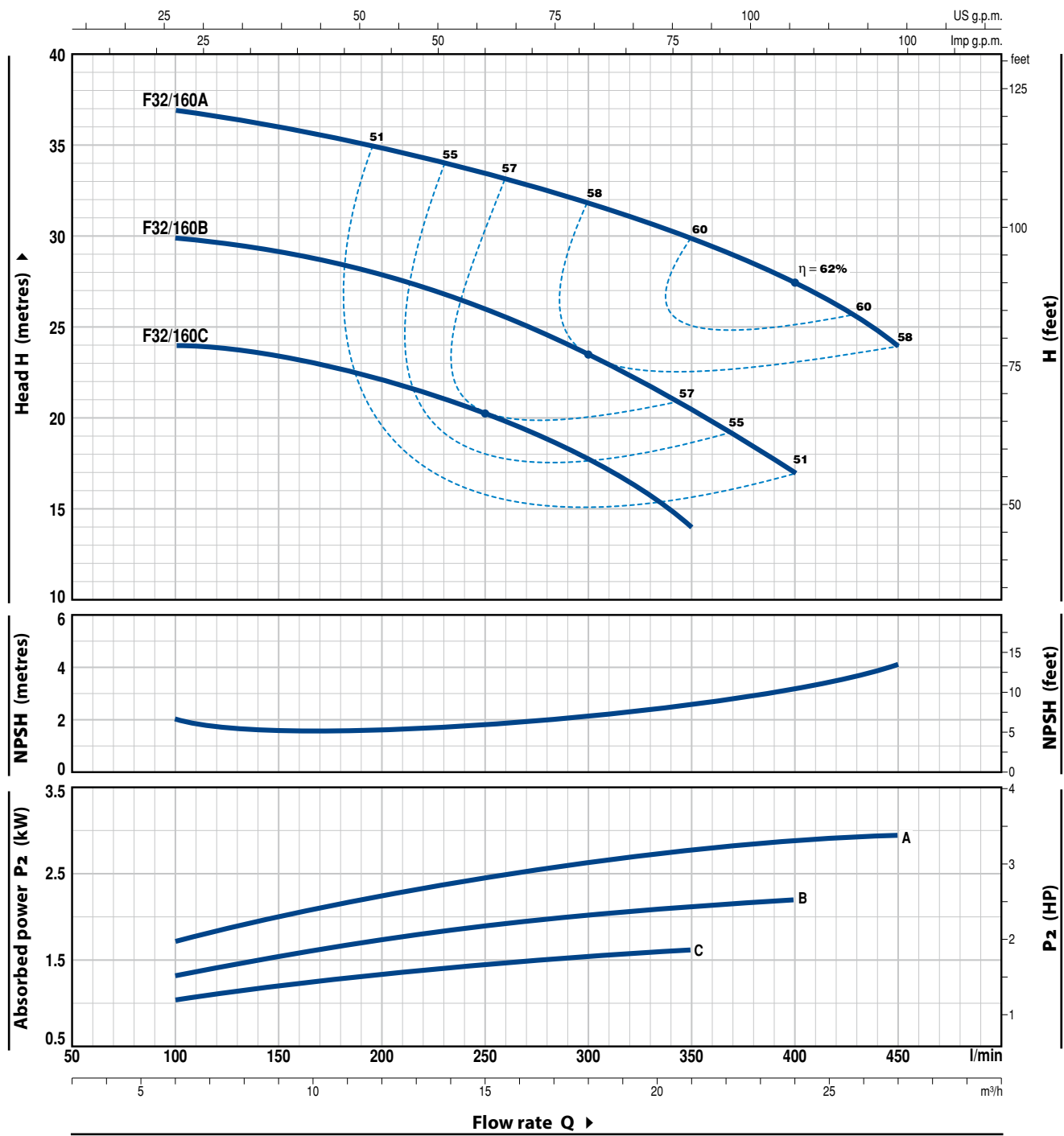
Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

▲ Performance class of the three-phase motor (IEC-60034-30)

F32/160

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 rpm HS= 0 m

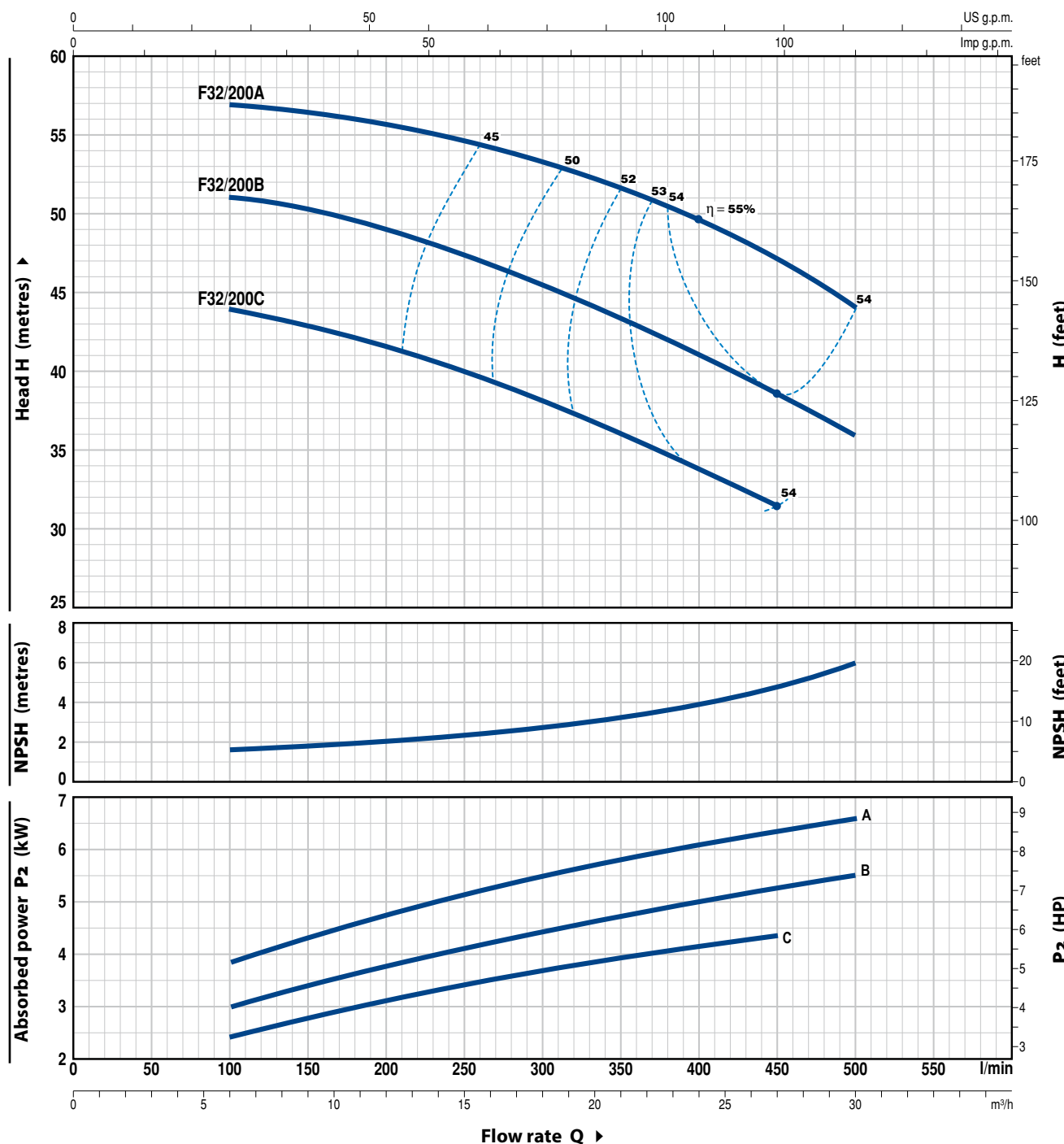


MODEL		POWER (P ₂)		Q	m³/h	0	6	9	12	15	18	21	24	27
Single-phase	Three-phase	kW	HP		l/min	0	100	150	200	250	300	350	400	450
Fm 32/160C	F 32/160C	1.5	2	H metres	25	24	23.5	22	20.5	18	14			
Fm 32/160B	F 32/160B	2.2	3		31	30	29	28	26	23.5	20.5	17		
–	F 32/160A	3	4		38	37	36	35	33.5	31.5	30	27.5	24	

Q = Flow rate H = Total manometric head HS = Suction height Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n = 3450 rpm HS = 0 m



MODEL	POWER (P ₂)		Q	0	6	9	12	15	18	21	24	27	30
	kW	HP		0	100	150	200	250	300	350	400	450	500
F 32/200C	4	5.5	H metres	46	44	43	41.5	40	38	36	34	31.5	
F 32/200B	5.5	7.5		52	51	50.5	49	47	45	43	41	38.5	36
F 32/200A	7.5	10		60	57	56.5	56	55	53.5	52	50	47	44

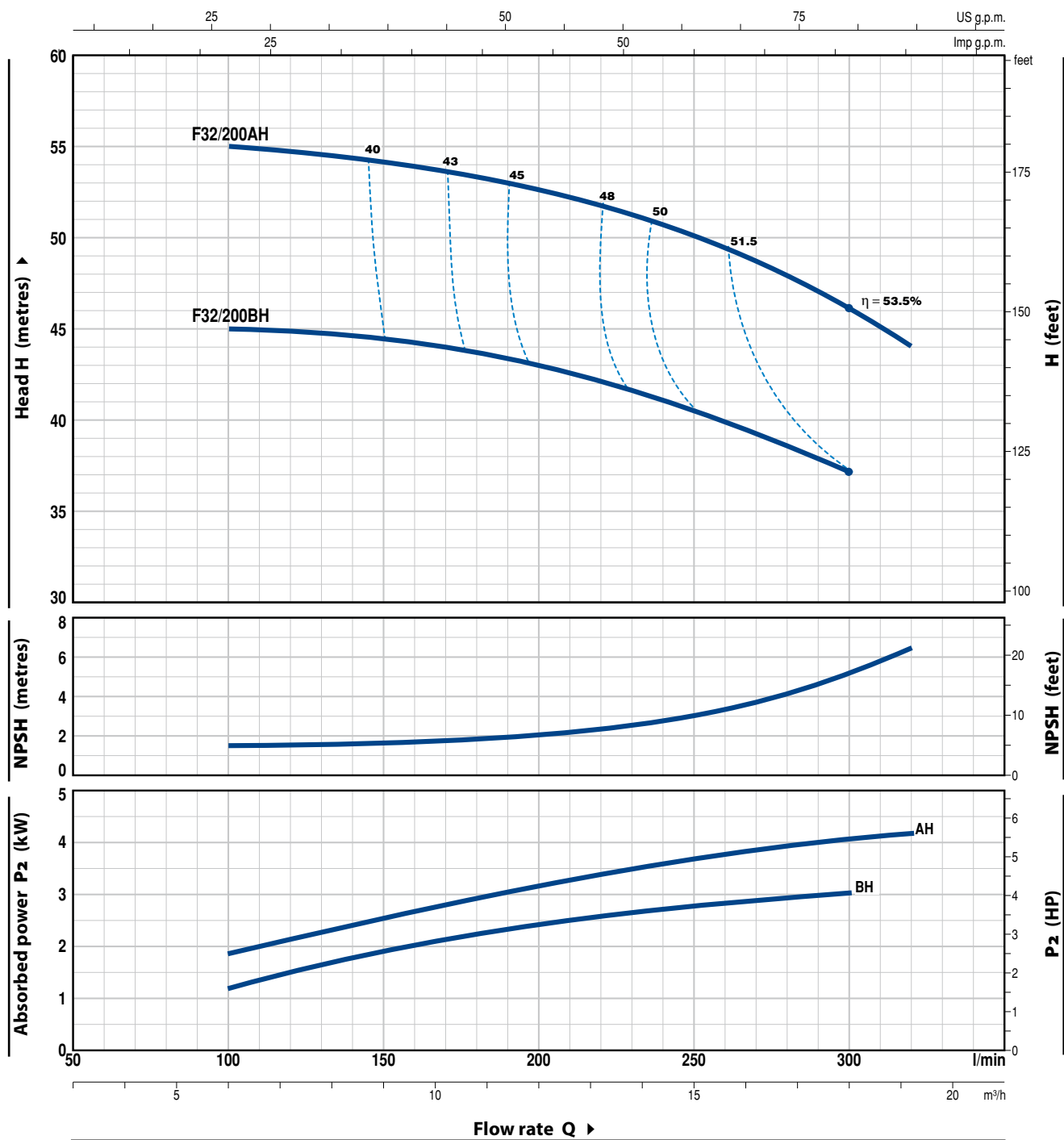
Q = Flow rate H = Total manometric head HS = Suction height

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

F32/200H

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 rpm HS= 0 m

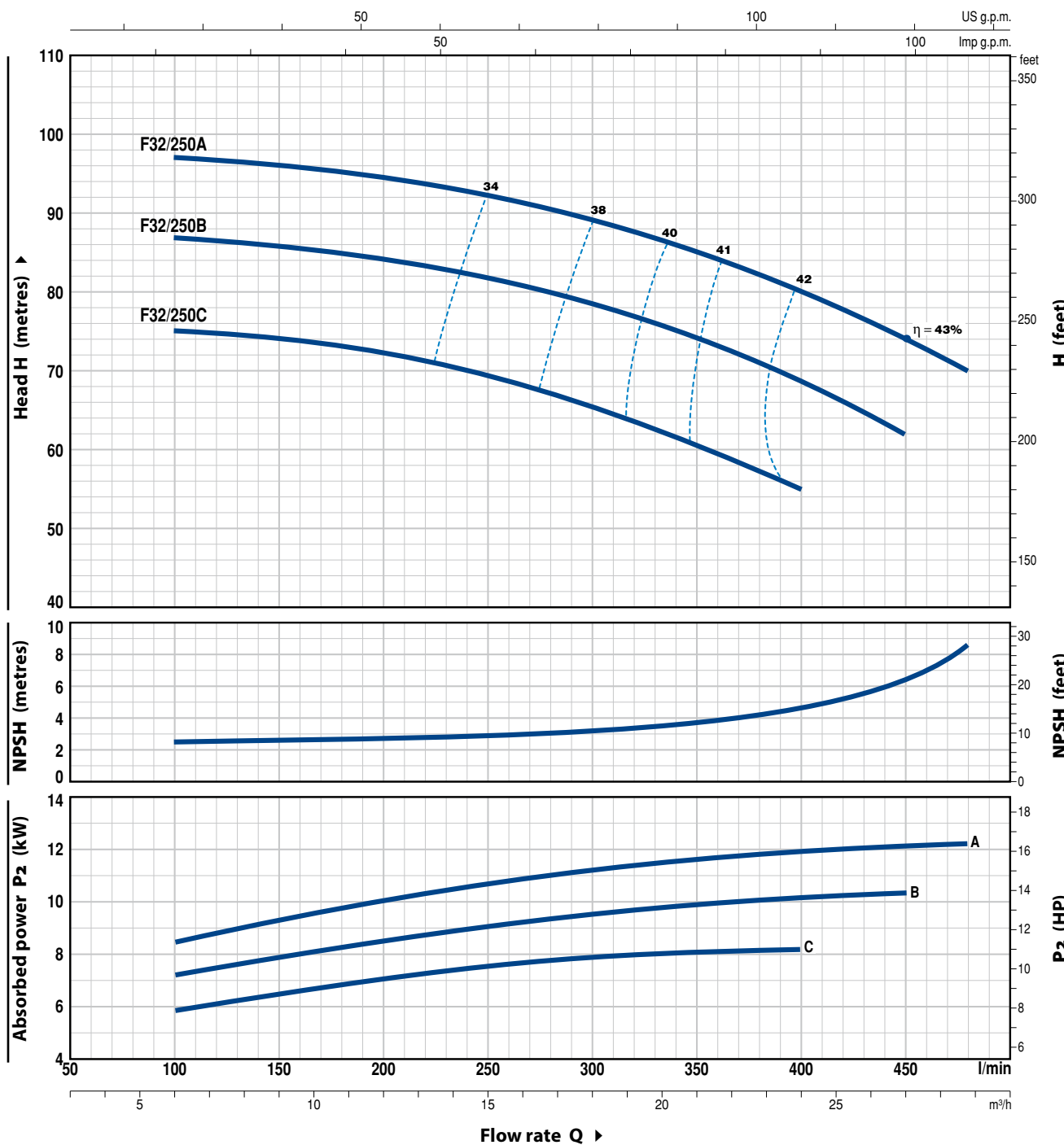


MODEL	POWER (P ₂)		Q							
	kW	HP		m³/h	l/min					
Three-phase				0	6	9	12	15	18	19.2
F 32/200BH	3	4	H metres	47	45	44.5	43	40.5	37	
F 32/200AH	4	5.5		57	55	54	52.5	50	46	44

Q = Flow rate H = Total manometric head HS = Suction height Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n = 3450 rpm HS = 0 m



MODEL	POWER (P ₂)		Q	0	6	9	12	15	18	21	24	27	28.8
	kW	HP		0	100	150	200	250	300	350	400	450	480
F 32/250C	9.2	12.5	H metres	76	75	74.5	72.5	69.5	66	61	55		
F 32/250B	11	15		88	87	86	84	82	78.5	74.5	69	62	
F 32/250A	15	20		98	97	96	94.5	92	89	85	80	74	70

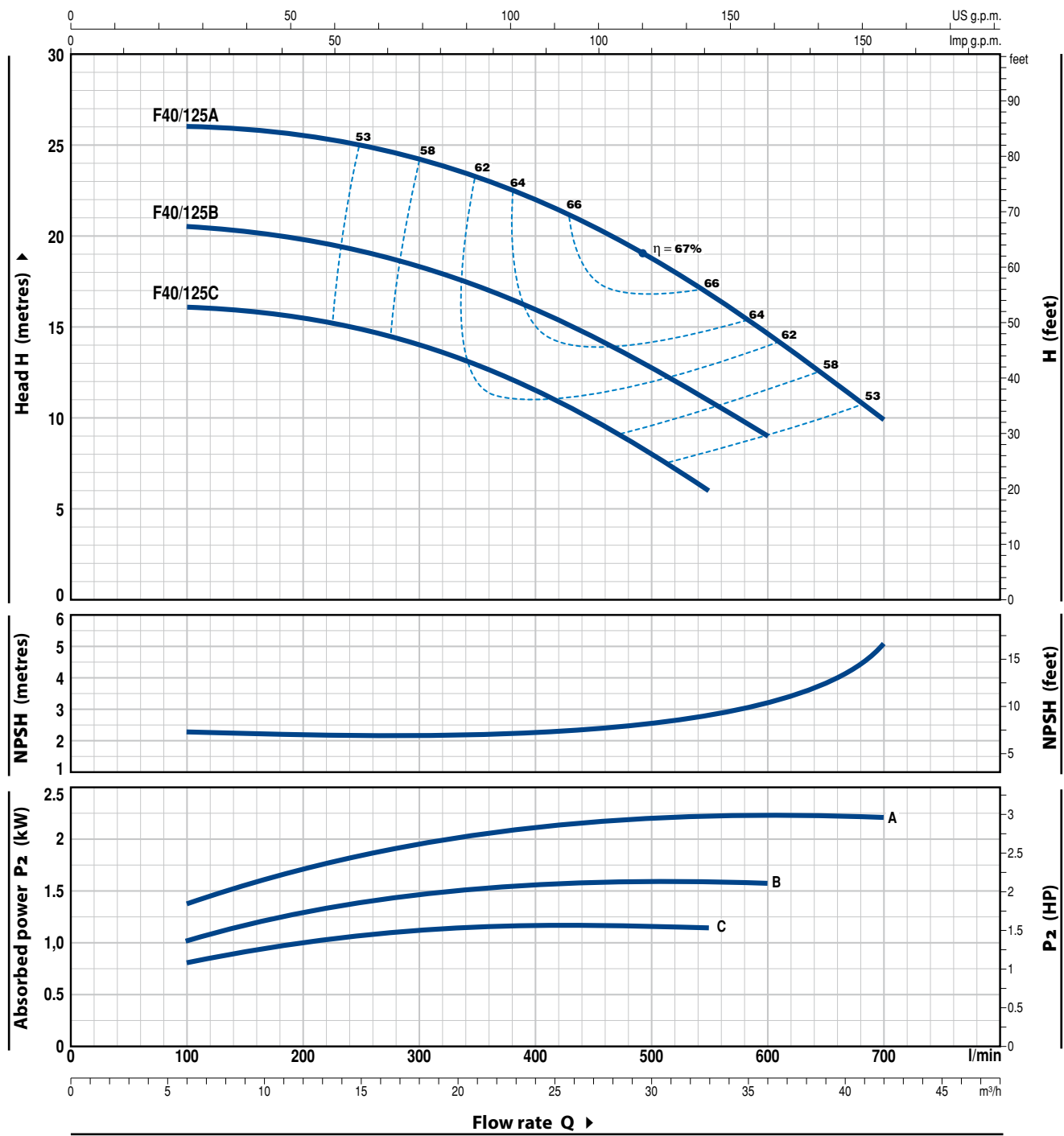
Q = Flow rate H = Total manometric head HS = Suction height

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

F40/125

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 rpm HS= 0 m

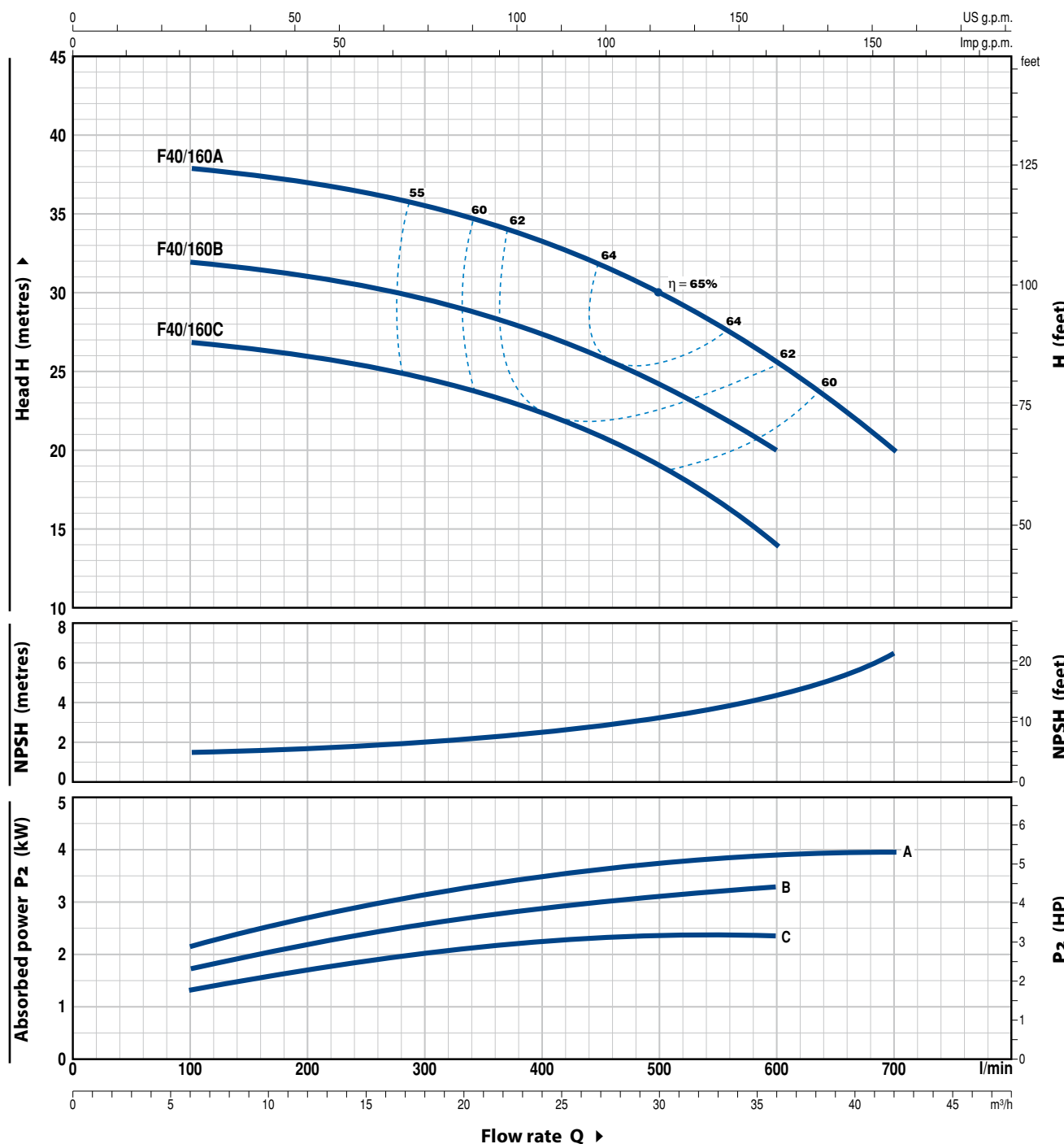


MODEL		POWER (P ₂)		Q	m³/h	0	6	12	18	24	30	33	36	39	42
Single-phase	Three-phase	kW	HP		l/min	0	100	200	300	400	500	550	600	650	700
Fm 40/125C	F 40/125C	1.1	1.5	H metres		16	16	15.5	14	11.5	8	6			
Fm 40/125B	F 40/125B	1.5	2			20.5	20.5	19.8	18.5	16	12.8	11	9		
Fm 40/125A	F 40/125A	2.2	3			26	26	25.5	24	22	18.5	17	14.5	12.5	10

Q = Flow rate H = Total manometric head HS = Suction height Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 rpm HS= 0 m



MODEL		POWER (P ₂)		Q											
Single-phase	Three-phase	kW	HP		m³/h	0	6	9	12	15	18	24	30	36	42
					l/min	0	100	150	200	250	300	400	500	600	700
Fm 40/160C	F 40/160C	2.2	3	H metres		27	27	26.5	26	25.5	25	22.5	19	14	
-	F 40/160B	3	4			32	32	31.5	31	30.5	30	27.5	24	20	
-	F 40/160A	4	5.5			38	38	37.8	37	36.5	36	33.5	30	26	20

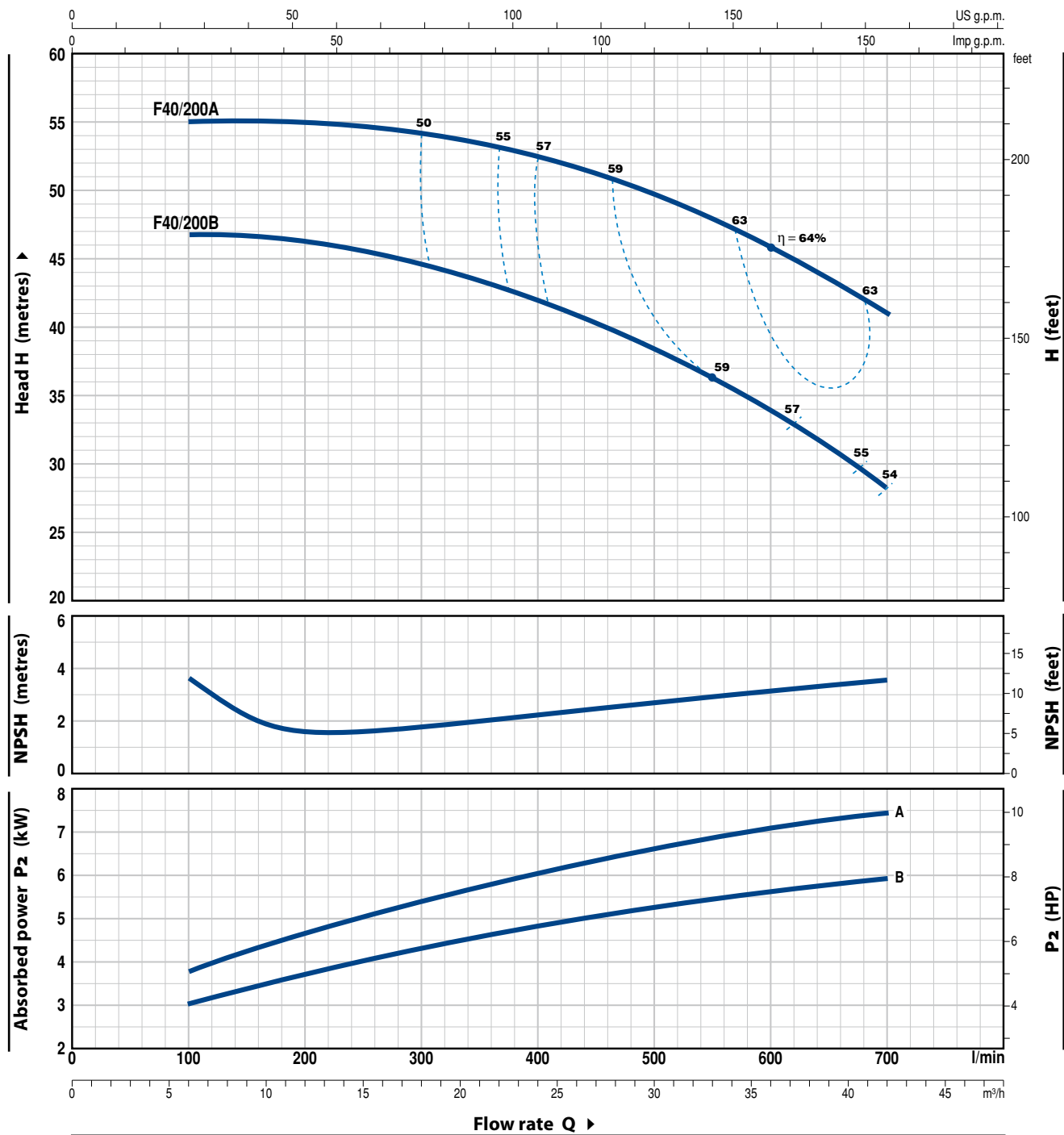
Q = Flow rate H = Total manometric head HS = Suction height

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

F40/200

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n = 3450 rpm HS = 0 m

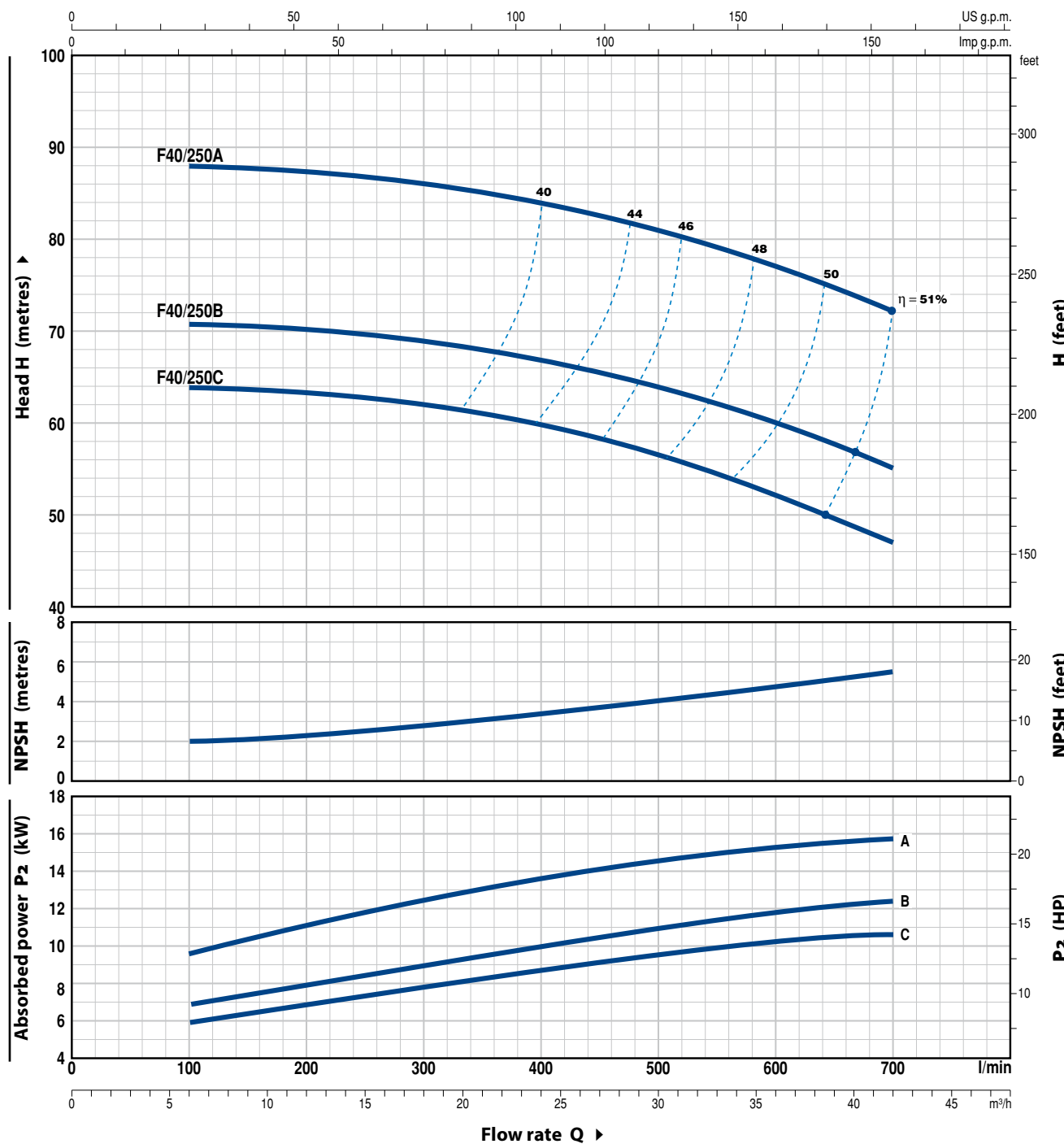


MODEL	POWER (P ₂)		Q	0	6	9	12	15	18	24	30	36	42
	kW	HP		0	100	150	200	250	300	400	500	600	700
F 40/200B	5.5	7.5	H metres	48	47	46.5	46	45.5	44.5	42	38	34	28
F 40/200A	7.5	10		56	55	55	55	54.5	54	52.5	49.5	46	41

Q = Flow rate H = Total manometric head HS = Suction height Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n = 3450 rpm HS = 0 m



MODEL	POWER (P ₂)		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

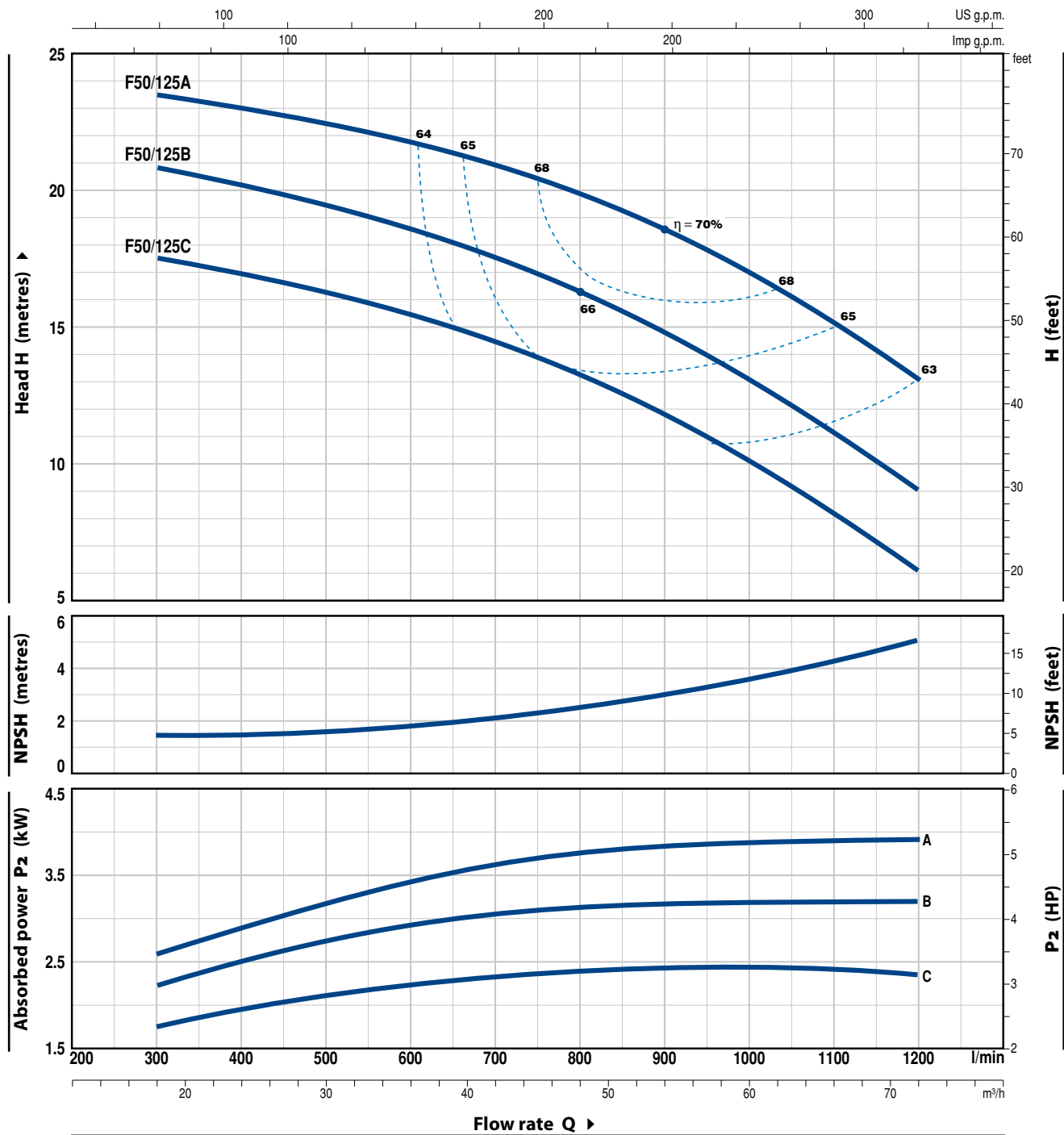
Q = Flow rate H = Total manometric head HS = Suction height

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

F50/125

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 rpm HS= 0 m

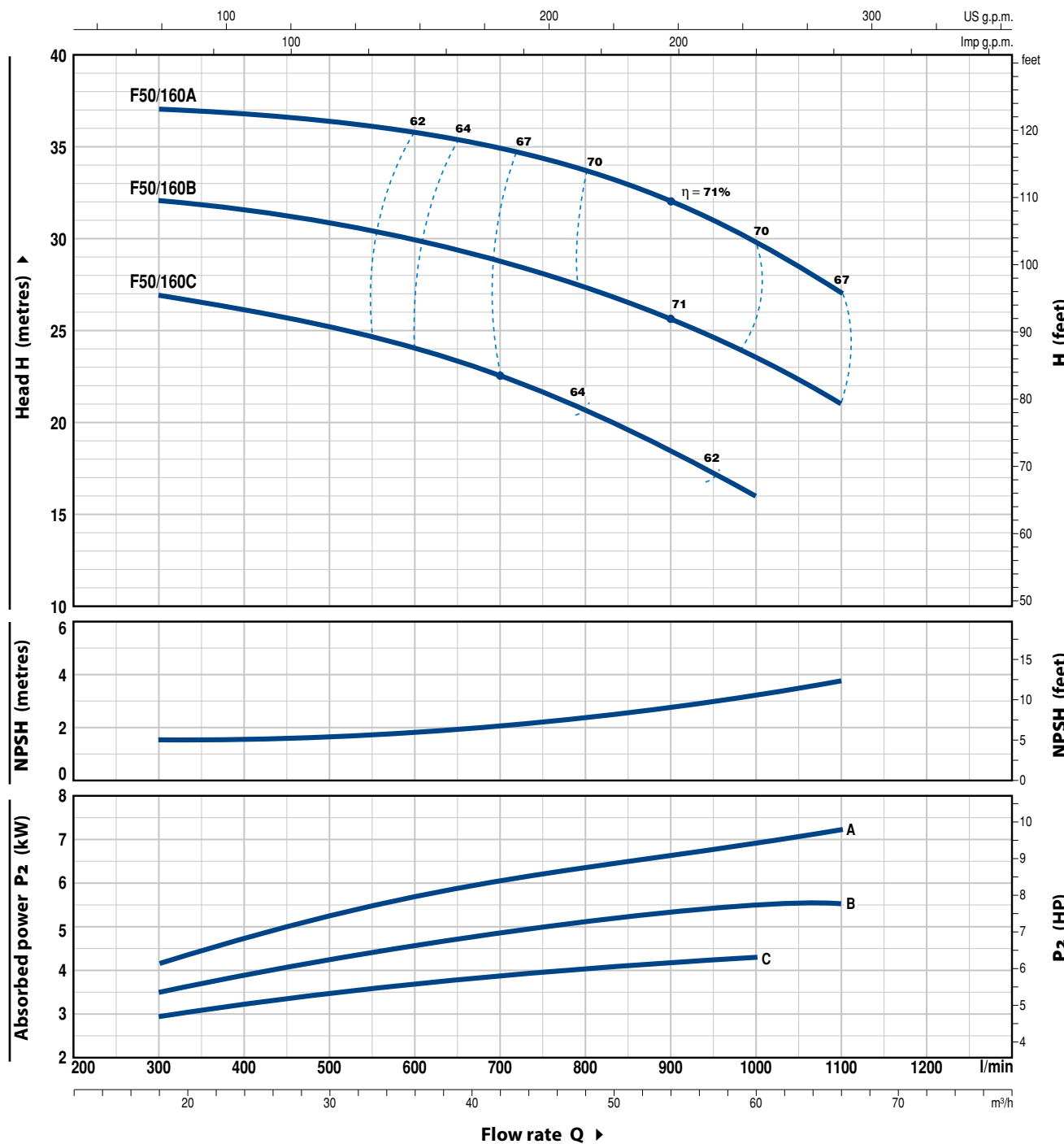


MODEL		POWER (P ₂)		Q	m³/h	0	18	24	30	36	42	48	54	60	66	72
Single-phase	Three-phase	kW	HP		l/min	0	300	400	500	600	700	800	900	1000	1100	1200
Fm 50/125C	F 50/125C	2.2	3	H metres	18.5	17.5	17	16.5	15.5	14.8	13.5	12	10.5	8.2	6	
–	F 50/125B	3	4		21.5	20.7	20	19.5	18.8	17.8	16.5	15	13.5	11.2	9	
–	F 50/125A	4	5.5		24.5	23.5	23	22.5	21.8	20.8	19.5	18.3	16.8	15	13	

Q = Flow rate H = Total manometric head HS = Suction height Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 rpm HS= 0 m



MODEL	POWER (P ₂)		Q	0	18	24	30	36	42	48	54	60	66
	kW	HP		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

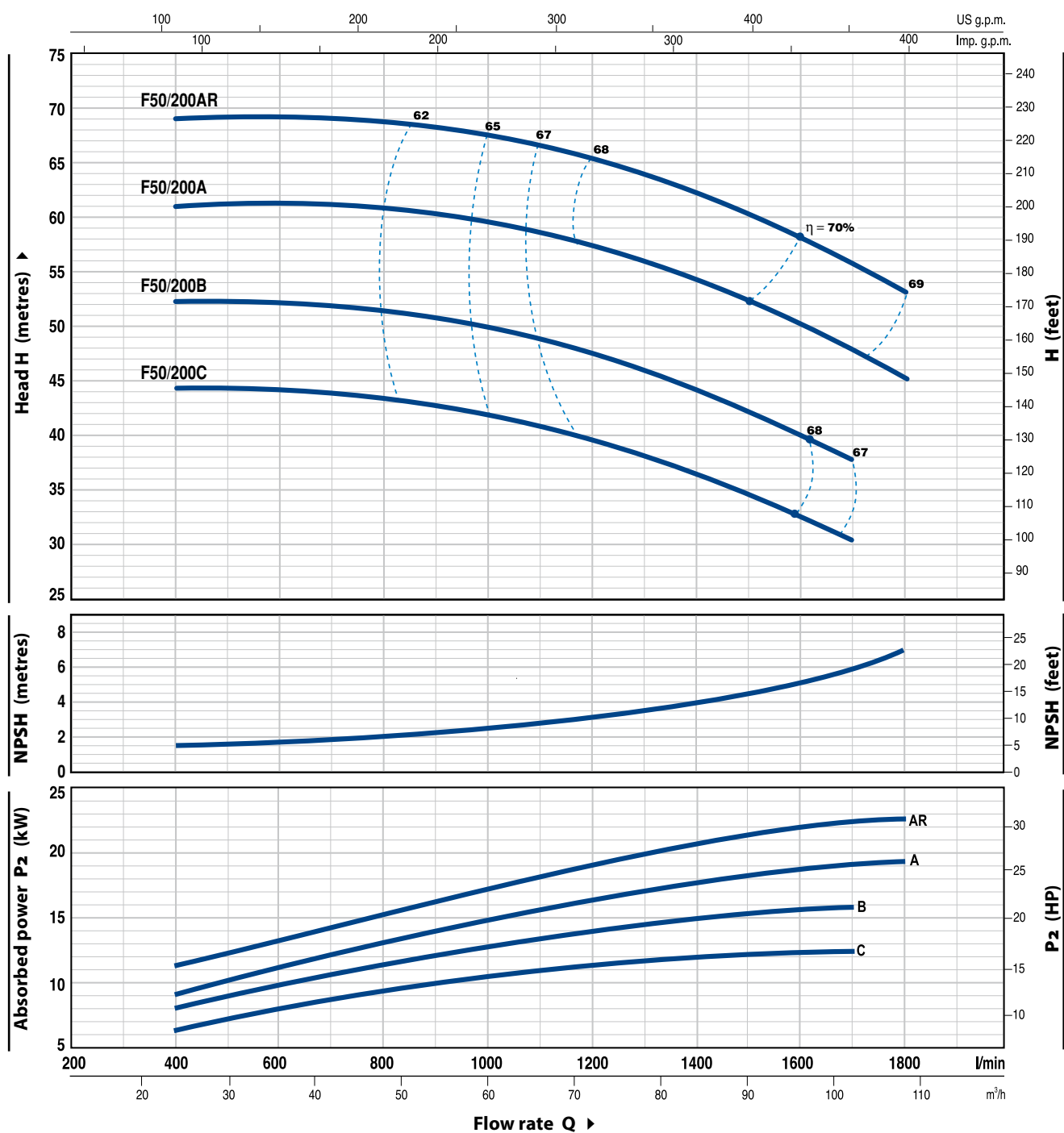
Q = Flow rate H = Total manometric head HS = Suction height

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

F50/200

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n = 3450 rpm HS = 0 m



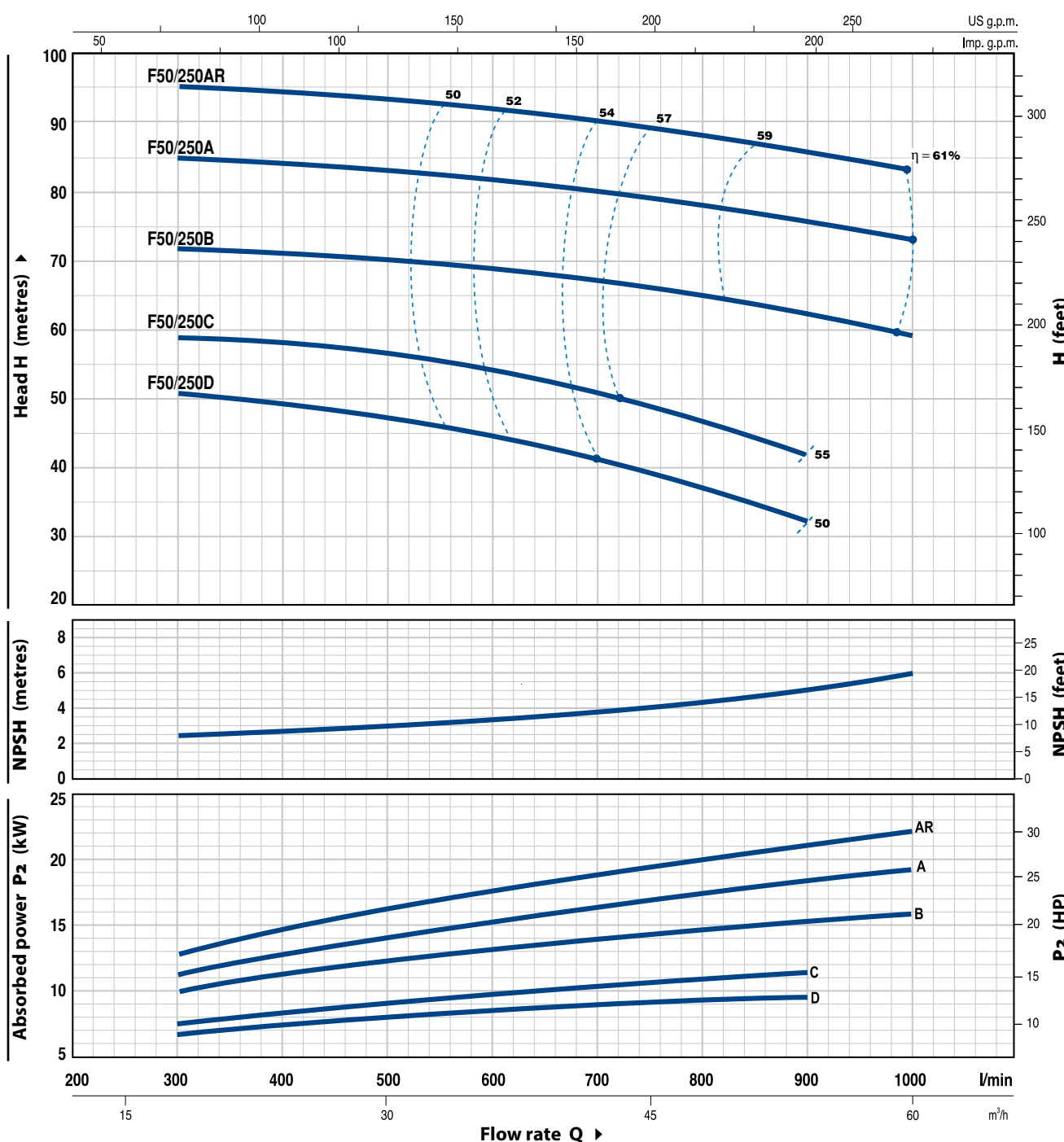
MODEL	POWER (P ₂)		Q	24	36	48	60	72	84	96	102	108
	kW	HP		400	600	800	1000	1200	1400	1600	1700	1800
F 50/200C	11	15	H metres	44	44	44	42	39	36	33	30	
F 50/200B	15	20		52	52	52	50	47	44	40	38	
F 50/200A	18.5	25		61	61	60.5	60	57	54	50	48	45
F 50/200AR	22	30		69	69	68.5	68	65	62	58	56	53

Q = Flow rate H = Total manometric head HS = Suction height

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 rpm HS= 0 m



MODEL	POWER (P ₂)		Q m ³ /h l/min	0	18	24	30	36	42	48	54	60
Three-phase	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

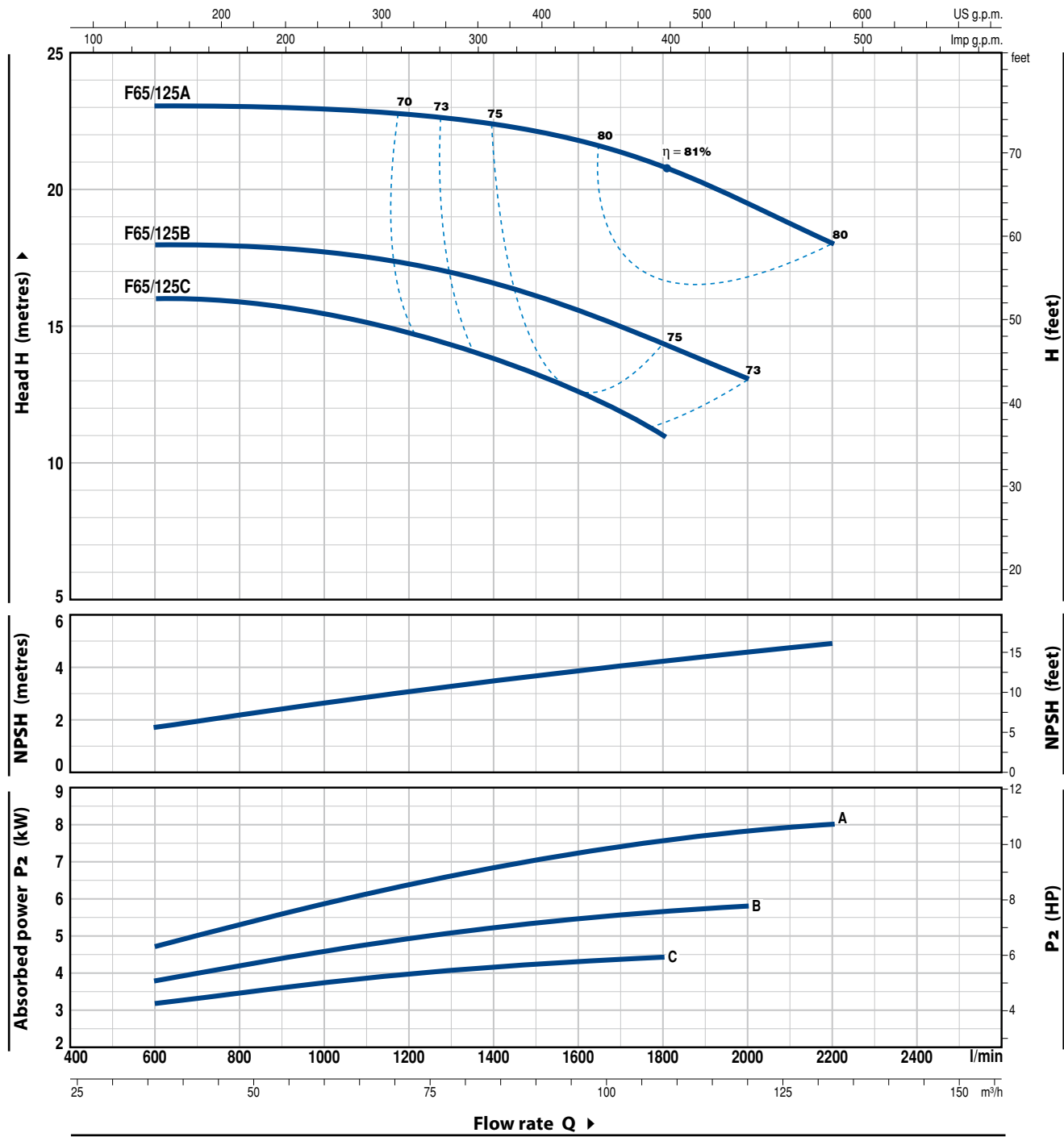
Q = Flow rate H = Total manometric head HS = Suction height

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

F65/125

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 rpm HS= 0 m

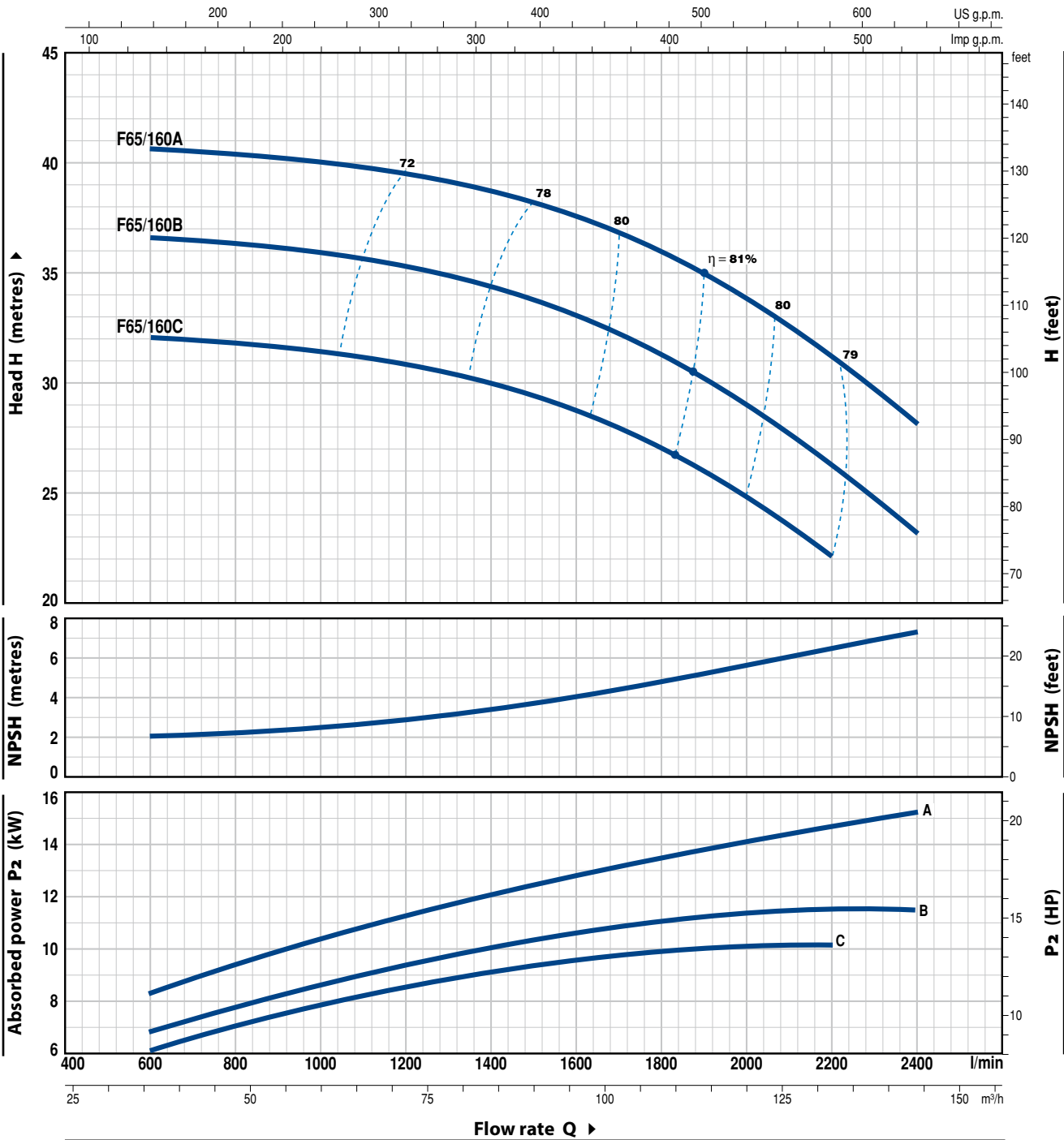


MODEL	POWER (P ₂)		Q	0	36	48	60	72	84	96	108	120	132
	kW	HP		0	600	800	1000	1200	1400	1600	1800	2000	2200
F 65/125C	4	5.5	H metres	16	16	16	15.5	14.5	13.5	12.5	11		
F 65/125B	5.5	7.5		18	18	18	18	17	16.5	15.5	14.5	13	
F 65/125A	7.5	10		23	23	23	23	22.5	22.5	22	21	19.5	18

Q = Flow rate H = Total manometric head HS = Suction height Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 rpm HS= 0 m



MODEL	POWER (P ₂)		Q	0	36	48	60	72	84	96	108	120	132	144
	kW	HP		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	39.5	39	37.5	36	34	31	28

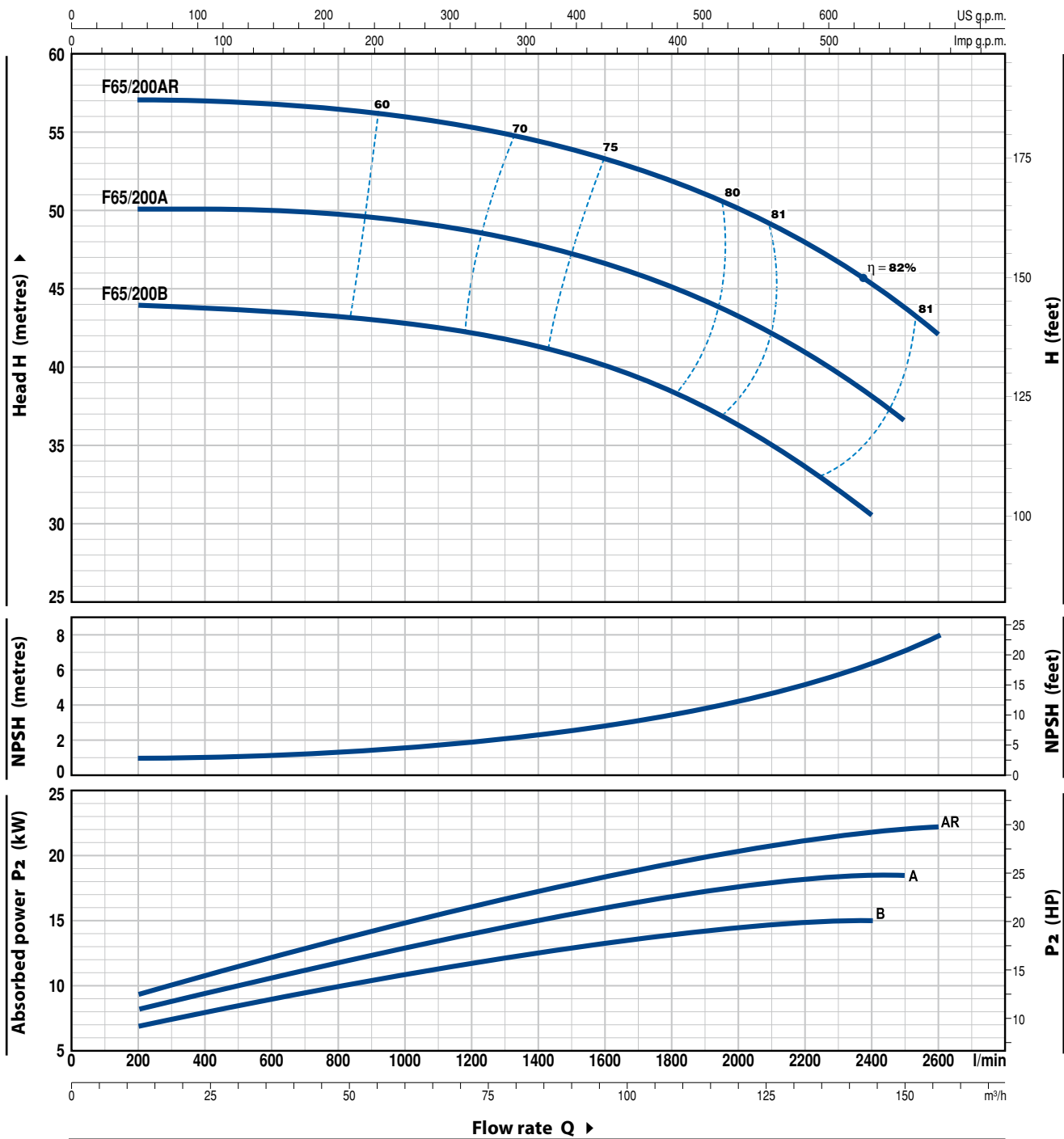
Q = Flow rate H = Total manometric head HS = Suction height

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

F65/200

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 rpm HS= 0 m



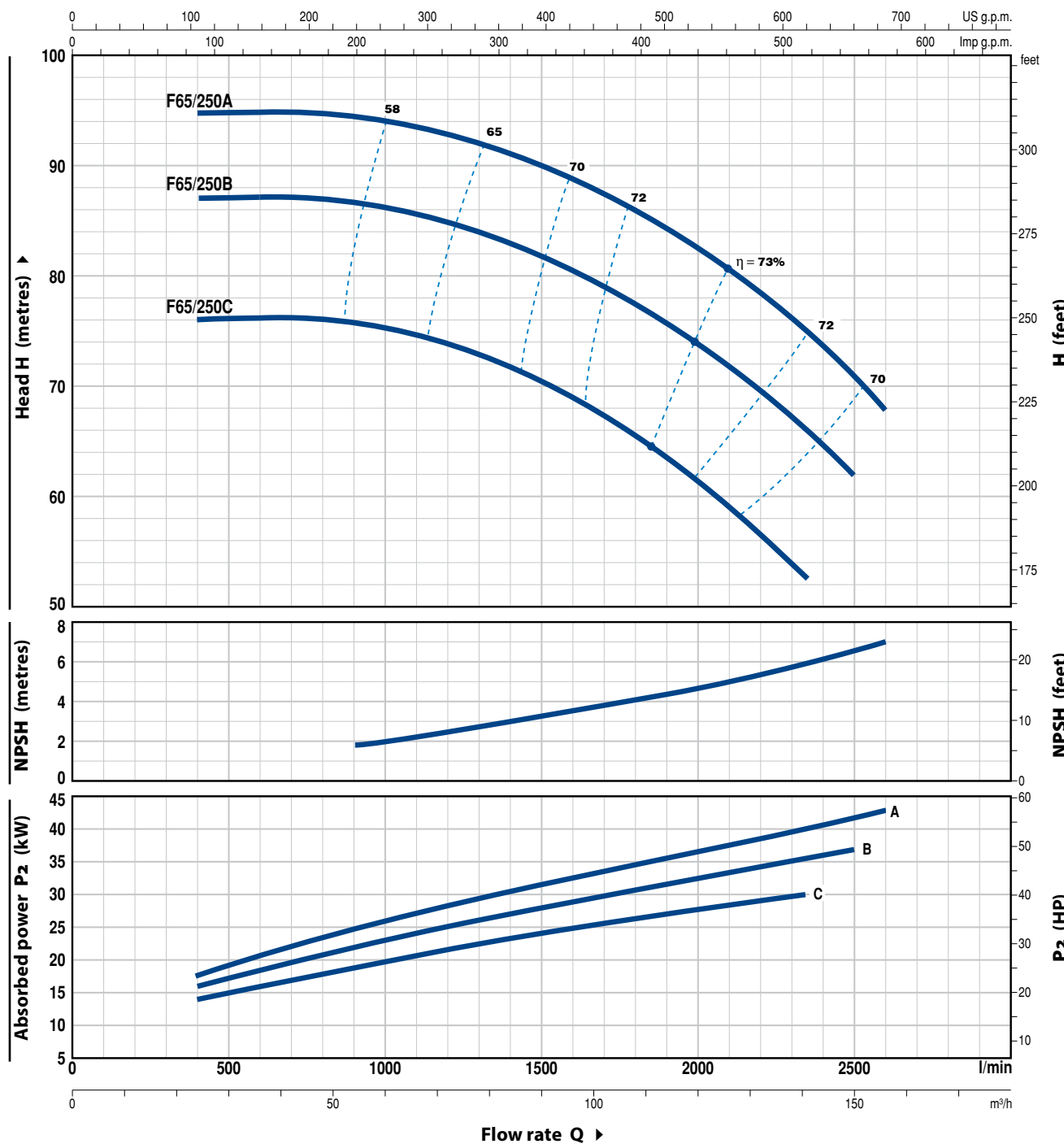
MODEL	POWER (P ₂)		Q	12	36	48	60	72	84	96	108	120	132	144	150	156
	kW	HP		200	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2500	2600
F 65/200B	15	20	H metres	44	43.5	43.3	43	42.5	41.5	40	38.5	36.5	34	30.5		
F 65/200A	18.5	25		50	50	50	49.5	49	48	46.5	45	43	41	38	36.5	
F 65/200AR	22	30		57	57	57	56	55.5	54.5	53.5	52	50	48	45.5	43.5	42

Q = Flow rate H = Total manometric head HS = Suction height

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n = 3450 rpm HS = 0 m



MODEL	POWER (P ₂)		Q	24	40	60	80	100	120	141	150	156
	kW	HP		400	667	1000	1333	1667	2000	2350	2500	2600
F 65/250C	30	40	H metres	76	76	75.5	72.5	68	61.5	53		
F 65/250B	37	50		87	87	86	84	80	74	66.5	62	
F 65/250A	45	60		95	95	94	92	88	82.5	75	71	68

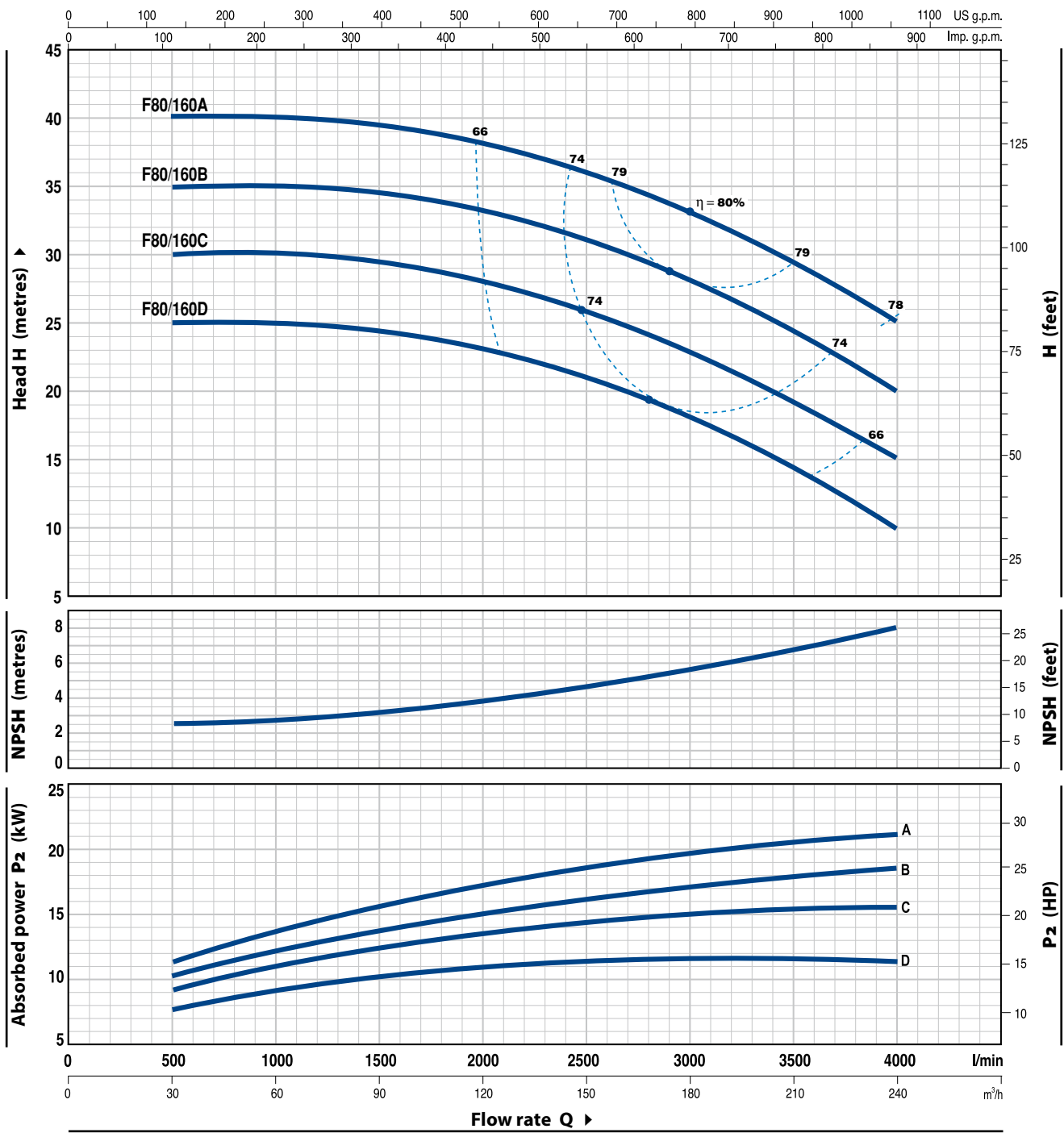
Q = Flow rate H = Total manometric head HS = Suction height

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

F80/160

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 rpm HS= 0 m



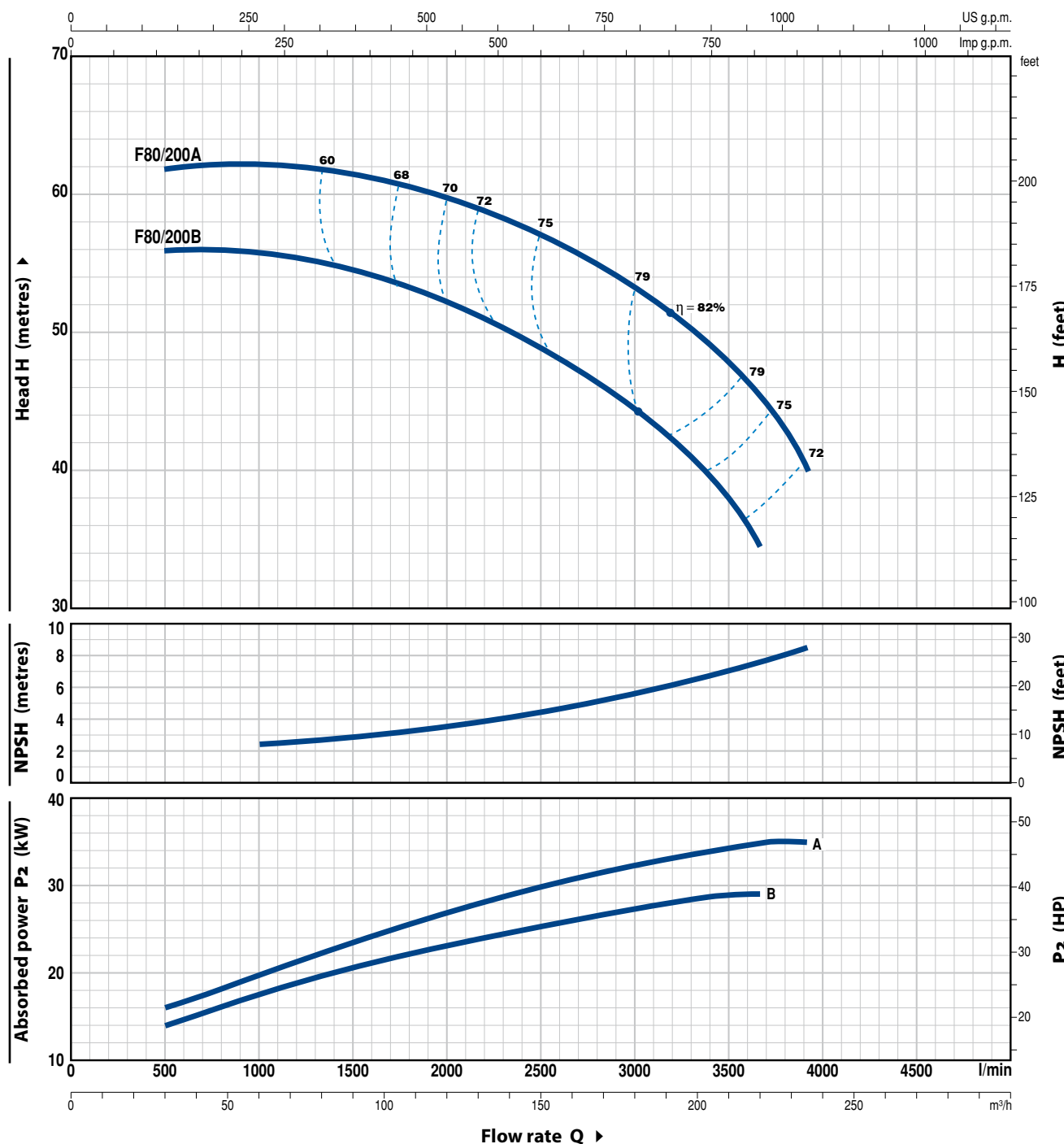
MODEL	POWER (P ₂)		Q	0	30	60	90	120	150	180	210	240
	kW	HP		0	500	1000	1500	2000	2500	3000	3500	4000
F 80/160D	11	15	H metres	25	25	25	24.5	23.5	21	18	14.5	10
F 80/160C	15	20		30	30	30	29.5	28.5	26	23	19.5	15
F 80/160B	18.5	25		35	35	35	34.5	33.5	31	28.5	24.5	20
F 80/160A	22	30		40	40	40	39.5	38.5	36	33	29.5	25

Q = Flow rate H = Total manometric head HS = Suction height

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 rpm HS= 0 m



MODEL	POWER (P ₂)		Q	30	50	100	150	200	219	234
	kW	HP		500	833	1667	2500	3333	3650	3900
F 80/200B	30	40	H metres	56	56	54	49	41	34.5	
F 80/200A	37	50		62	62	61	57	50	45.5	40

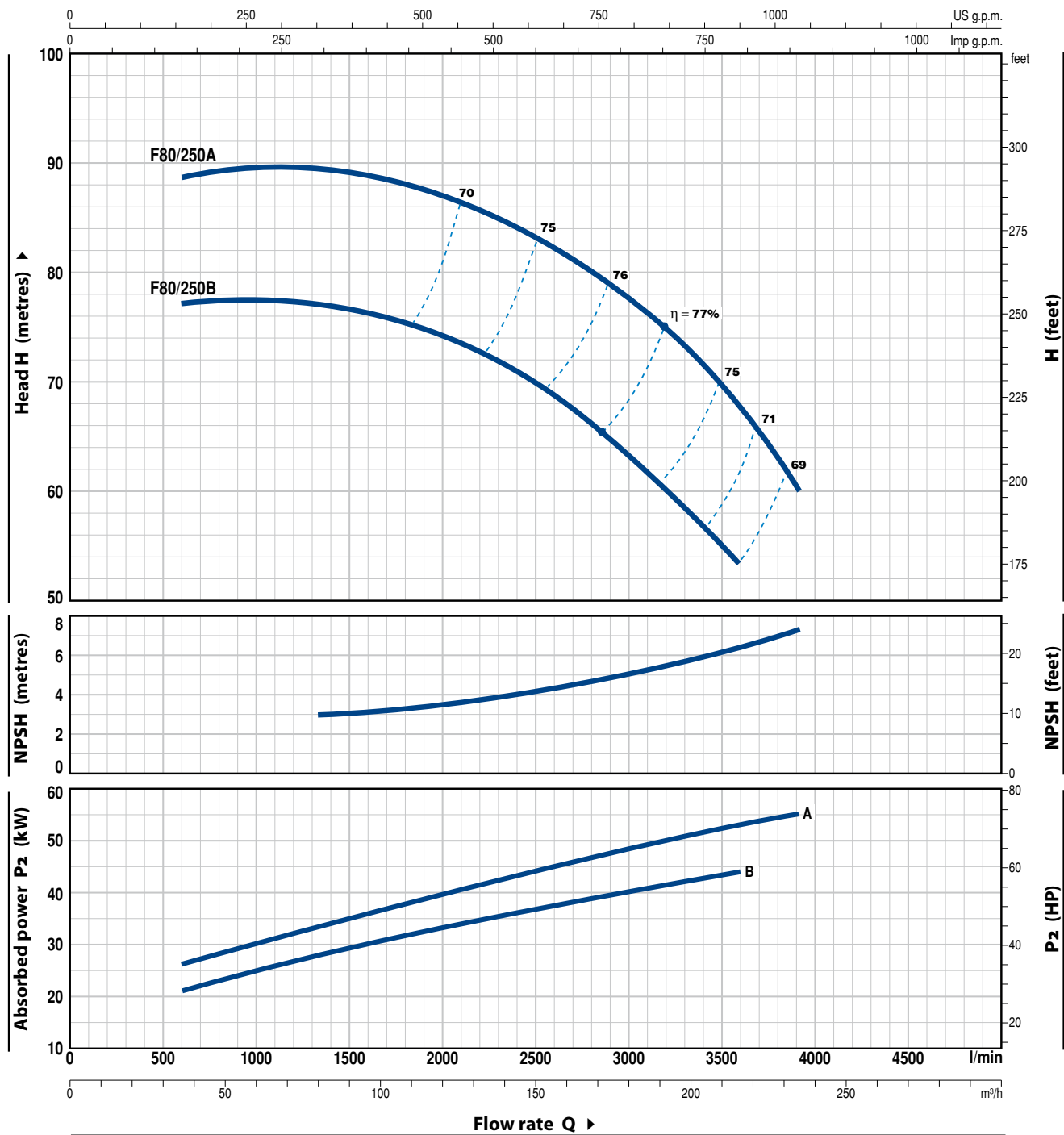
Q = Flow rate H = Total manometric head HS = Suction height

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

F80/250

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 rpm HS= 0 m

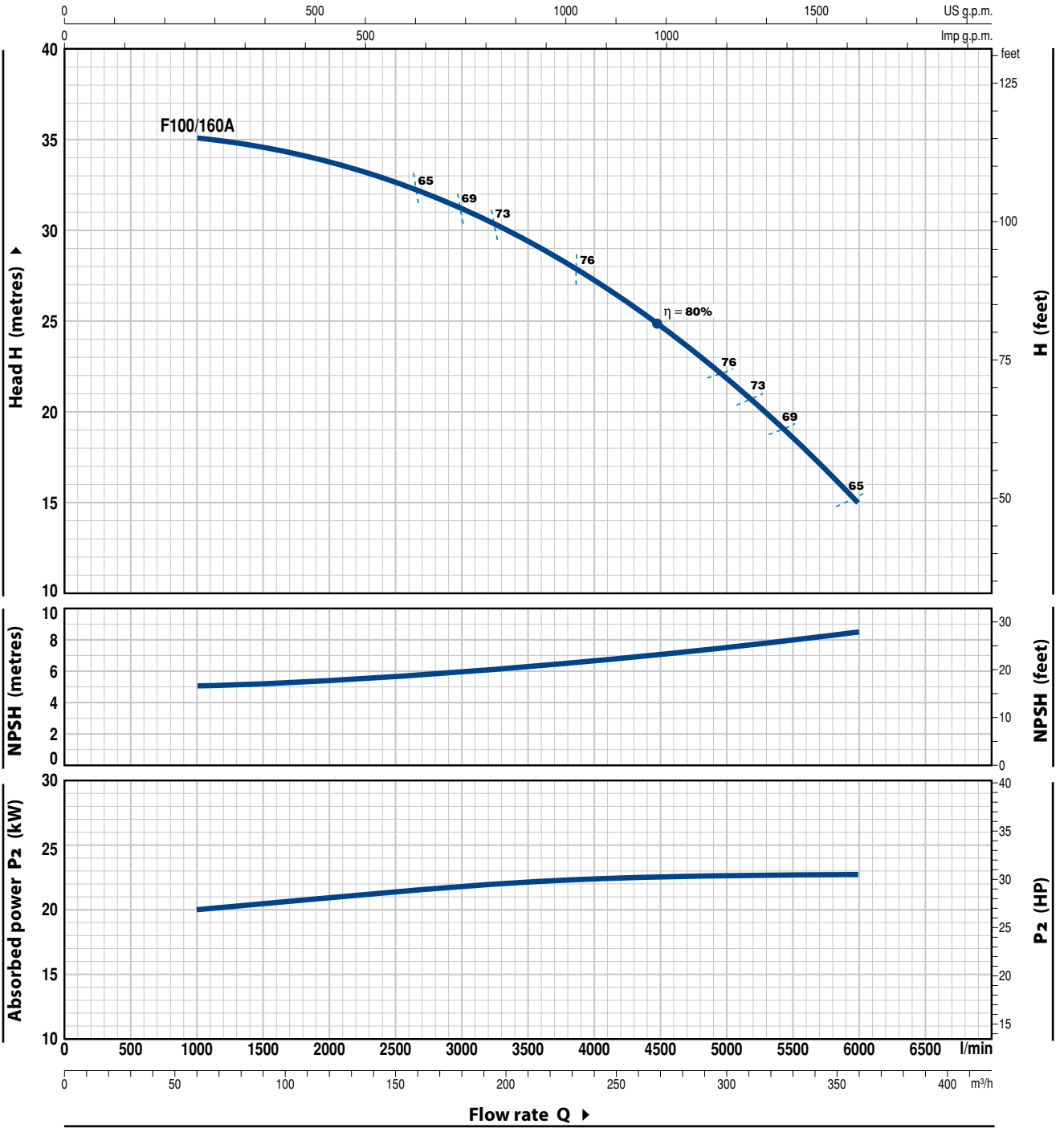


MODEL	POWER (P ₂)		Q	36	50	100	150	200	216	234
	kW	HP		600	833	1667	2500	3333	3600	3900
F 80/250B	45	60	H metres	77	77.5	76	70.5	58.5	54	
F 80/250A	55	75		88.5	89.5	89	83	72	68	60

Q = Flow rate H = Total manometric head HS = Suction height Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 rpm HS= 0 m



MODEL	POWER (P ₂)		Q	0	60	120	180	240	270	300	330	360
	kW	HP		0	1000	2000	3000	4000	4500	5000	5500	6000
F 100/160A	22	30	H metres	35	35	34	31	27	24.5	22	18	15

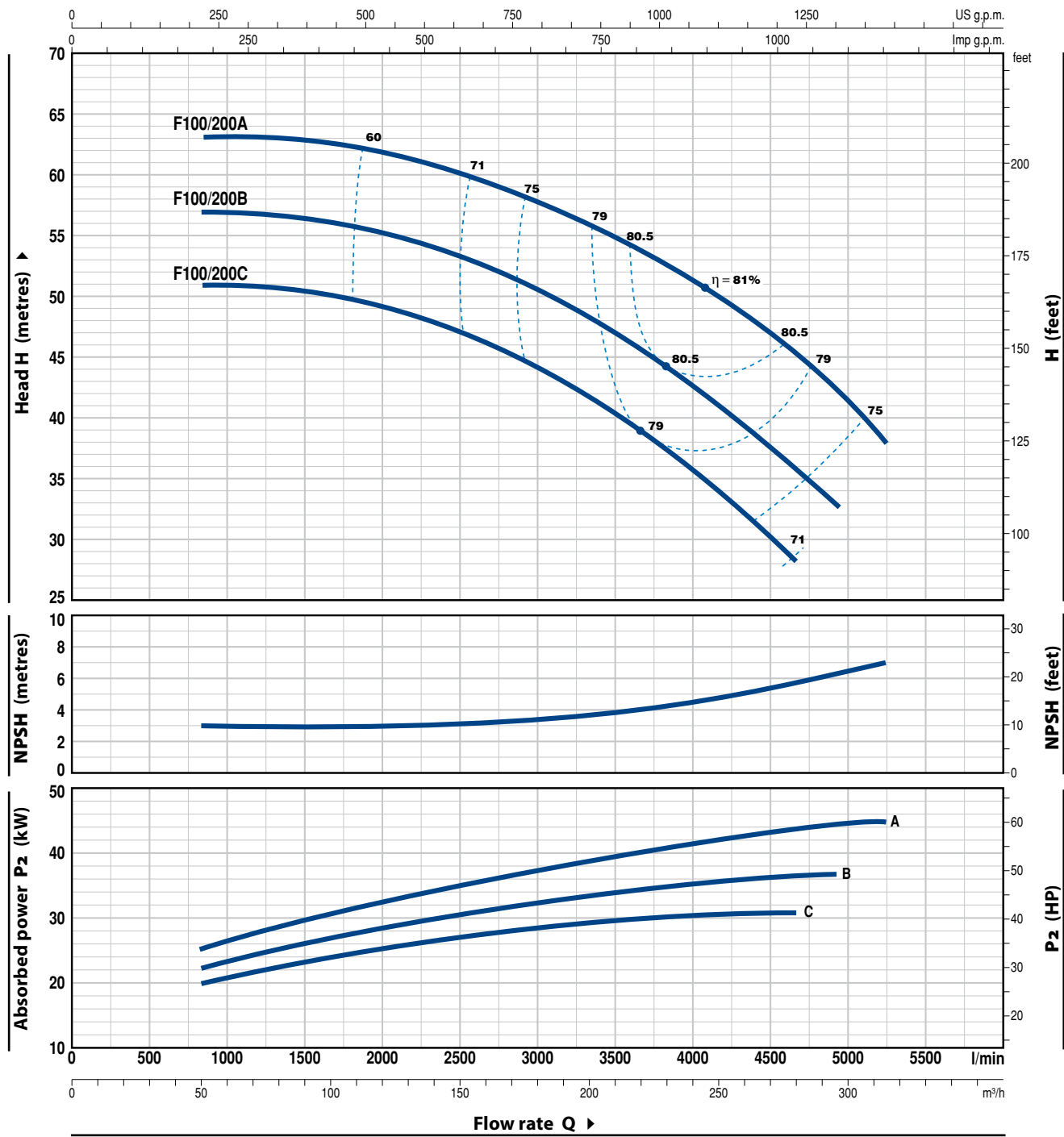
Q = Flow rate H = Total manometric head HS = Suction height

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

F100/200

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 rpm HS= 0 m

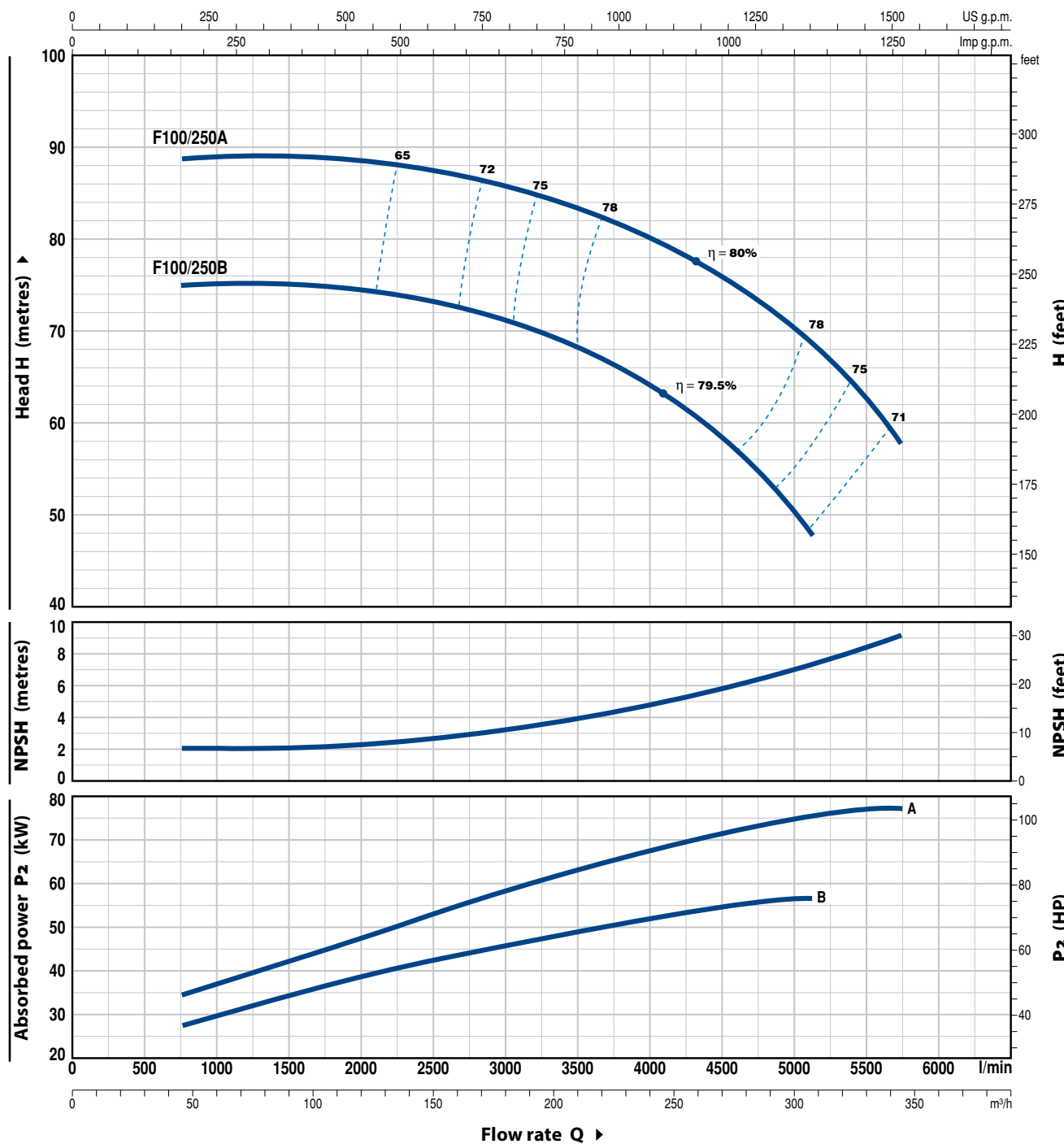


MODEL	POWER (P ₂)		Q	0	50	100	150	200	250	279	294	300	315
	kW	HP		0	833	1667	2500	3333	4167	4650	4900	5000	5250
F 100/200C	30	40	H metres	51	51	50	47	41.5	34	28			
F 100/200B	37	50		57	57	56	53	48	41	36	33		
F 100/200A	45	60		63	63	62.5	60	56	50	45	42.5	41.5	38

Q = Flow rate H = Total manometric head HS = Suction height Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n = 3450 rpm HS = 0 m



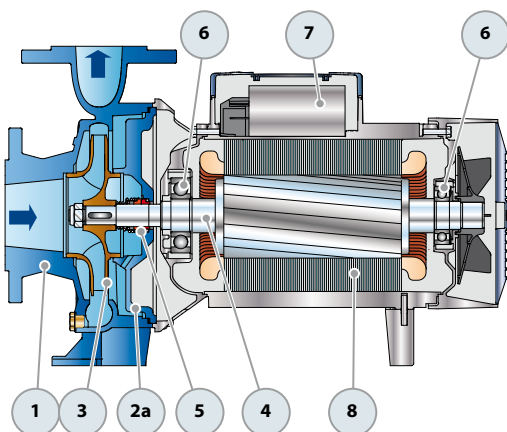
MODEL	POWER (P ₂)		Q									
	kW	HP		m³/h	l/min							
Three-phase				48	96	150	180	210	240	300	309	345
F 100/250B	55	75		800	1600	2500	3000	3500	4000	5000	5150	5750
			H metres	75	75	74	71.5	69	64.5	51	48	
F 100/250A	75	100		89	89	88.5	87	84	80.5	70.5	69	58

Q = Flow rate H = Total manometric head HS = Suction height

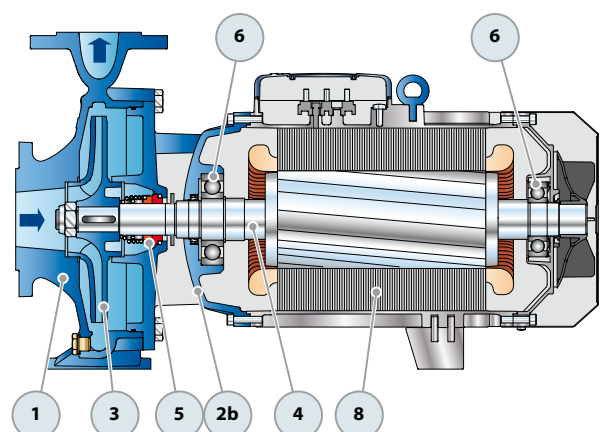
Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

POS. COMPONENT CONSTRUCTION CHARACTERISTICS

1	PUMP BODY	Cast iron complete with flanged suction and delivery ports					
2a	BODY BACKPLATE	Cast iron for F32/160, F32/200, F40/125, F40/160, F40/200, F50/125, F50/160, F65/125					
2b	MOTOR BRACKET	Cast iron for F32/250, F40/250, F50/200, F50/250, F65/160, F65/200, F65/250, F80/160, F80/200, F80/250, F100/160, F100/200, F100/250					
3	IMPELLER	Brass for F32/160, F32/200, F40/125, F40/160, F40/200, F50/125, F50/160 Cast iron for F32/250, F40/250, F50/200, F50/250, F65/125, F65/160, F65/200, F65/250, F80/160, F80/200, F80/250, F100/160, F100/200, F100/250					
4	MOTOR SHAFT	Stainless steel EN 10088-3 - 1.4104					
5	MECHANICAL SEAL	Pump	Seal	Shaft	Materials		
		Model	Model	Diameter	Stationary ring	Rotational ring	Elastomer
		F32/160, F40/125, F40/160, 50/125	FN-20	Ø 20 mm	Graphite	Ceramic	NBR
		F32/200, F40/200, F50/160, F65/125	FN-24	Ø 24 mm	Graphite	Ceramic	NBR
		F50/200, F65/160, F65/200, F80/160, F100/160	FN-32 NU	Ø 32 mm	Graphite	Ceramic	NBR
		F32/250, F40/250, F50/250	FN-38	Ø 38 mm	Graphite	Ceramic	NBR
		F65/250, F80/200, F80/250B, F100/200	FN-40 NU	Ø 40 mm	Graphite	Ceramic	NBR
6	BEARINGS	Pump	Model	Pump	Model		
7	CAPACITOR	Pump	Capacitance	Single-phase	(220 V)		
8	ELECTRIC MOTOR	Fm: single-phase 220 V - 60 Hz with thermal overload protector incorporated into the winding (up to 1.5 kW)					
		F: three-phase 220/380 V - 60 Hz or 220/440 V - 60 Hz up to 22 kW 380/660 V - 60 Hz between 30 and 75 kW					
► The three-phase pumps are fitted with high performance motors up to P2=1.1kW in class IE2 and from P2=1.5kW in class IE3 (IEC 60034-30)							
– Insulation: class F – Protection: IP X5							



Single-phase version



Three-phase version

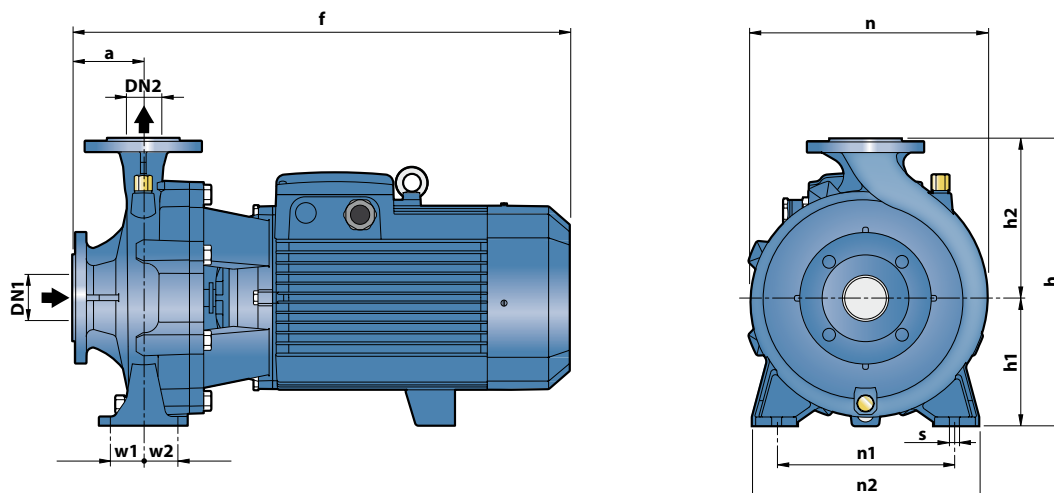
ABSORPTION

MODEL	VOLTAGE
Single-phase	220 V
Fm 32/160C	11.0 A
Fm 32/160B	15.0 A
Fm 40/125C	8.0 A
Fm 40/125B	11.0 A
Fm 40/125A	14.5 A
Fm 40/160C	17.0 A
Fm 50/125C	17.0 A

MODEL	VOLTAGE				
Three-phase	220 V	380 V	660 V	220 V	440 V
F 32/160C	7.8 A	4.5 A	2.6 A	8.0 A	4.5 A
F 32/160B	10.0 A	5.8 A	3.4 A	9.5 A	5.5 A
F 32/160A	12.1 A	7.0 A	4.0 A	12.1 A	6.5 A
F 32/200C	18.9 A	10.9 A	6.3 A	18.5 A	12.3 A
F 32/200B	24.0 A	13.9 A	8.0 A	22.0 A	13.8 A
F 32/200A	27.0 A	15.6 A	9.0 A	27.0 A	18.0 A
F 32/200BH	13.5 A	7.8 A	4.5 A	12.7 A	7.7 A
F 32/200AH	18.0 A	10.4 A	6.0 A	17.5 A	11.0 A
F 32/250C	38.0 A	22.0 A	12.7 A	39.8 A	20.0 A
F 32/250B	43.0 A	25.0 A	14.5 A	36.5 A	21.0 A
F 32/250A	57.0 A	33.0 A	19.1 A	60.0 A	34.0 A
F 40/125C	6.0 A	3.5 A	2.0 A	6.2 A	3.5 A
F 40/125B	7.8 A	4.5 A	2.6 A	8.0 A	4.5 A
F 40/125A	10.0 A	5.8 A	3.4 A	9.5 A	5.5 A
F 40/160C	10.0 A	5.8 A	3.4 A	8.7 A	5.0 A
F 40/160B	12.0 A	6.9 A	4.0 A	12.1 A	6.5 A
F 40/160A	20.9 A	12.1 A	7.0 A	19.5 A	12.5 A
F 40/200B	28.5 A	16.5 A	9.5 A	22.7 A	15.4 A
F 40/200A	30.9 A	17.8 A	10.3 A	28.5 A	21.8 A
F 40/250C	38.0 A	22.0 A	12.7 A	39.8 A	20.0 A
F 40/250B	43.0 A	25.0 A	14.5 A	36.5 A	21.0 A
F 40/250A	57.0 A	33.0 A	19.1 A	60.0 A	34.0 A
F 50/125C	10.7 A	6.2 A	3.6 A	9.8 A	6.7 A
F 50/125B	11.3 A	6.5 A	3.8 A	12.0 A	6.5 A
F 50/125A	18.2 A	10.5 A	6.1 A	19.0 A	12.5 A
F 50/160C	17.7 A	10.3 A	6.0 A	16.4 A	12.5 A
F 50/160B	21.0 A	12.0 A	6.9 A	20.8 A	13.5 A
F 50/160A	28.0 A	16.5 A	9.5 A	26.7 A	17.5 A
F 50/200C	46.0 A	26.5 A	15.3 A	47.0 A	25.0 A
F 50/200B	56.0 A	32.0 A	18.5 A	58.0 A	30.0 A
F 50/200A	67.5 A	39.0 A	22.5 A	70.0 A	36.0 A
F 50/200AR	87.0 A	51.0 A	29.5 A	78.0 A	45.0 A

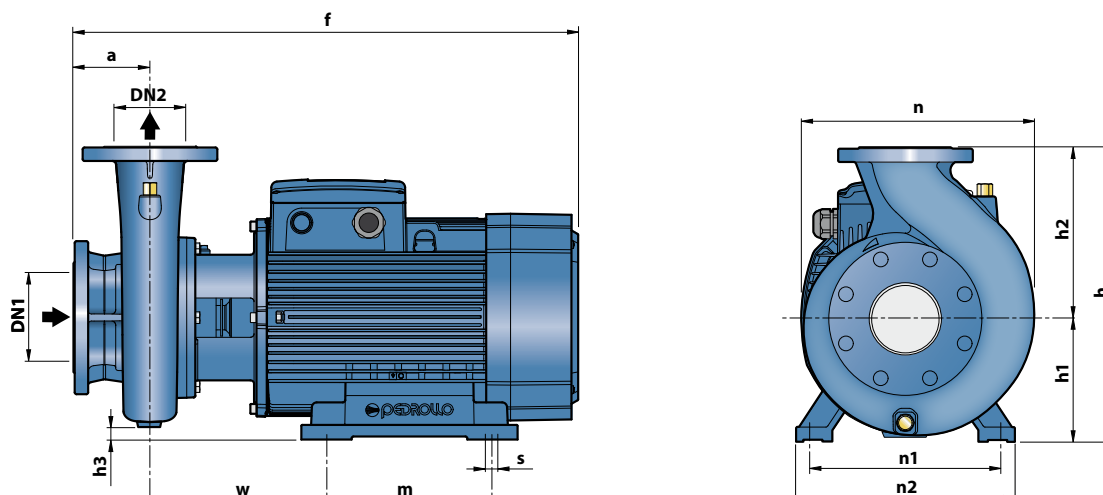
MODEL	VOLTAGE				
Three-phase	220 V	380 V	660 V	220 V	440 V
F 50/250D	32.5 A	18.5 A	10.7 A	29.5 A	17.0 A
F 50/250C	44.0 A	25.0 A	14.5 A	36.5 A	21.0 A
F 50/250B	52.0 A	30.0 A	17.3 A	50.0 A	26.0 A
F 50/250A	64.0 A	37.0 A	21.4 A	66.0 A	36.0 A
F 50/250AR	82.0 A	48.0 A	27.7 A	83.0 A	47.0 A
F 65/125C	18.0 A	10.4 A	6.0 A	19.5 A	12.5 A
F 65/125B	22.5 A	13.0 A	7.5 A	22.0 A	13.8 A
F 65/125A	28.8 A	16.6 A	9.6 A	32.0 A	19.5 A
F 65/160C	37.0 A	21.5 A	12.4 A	37.0 A	24.0 A
F 65/160B	47.0 A	27.0 A	15.6 A	48.0 A	26.0 A
F 65/160A	55.0 A	32.0 A	18.5 A	59.0 A	33.0 A
F 65/200B	56.2 A	32.5 A	18.8 A	58.5 A	32.0 A
F 65/200A	73.5 A	42.5 A	24.5 A	70.0 A	36.0 A
F 65/200AR	97.0 A	56.0 A	32.3 A	79.0 A	48.0 A
F 65/250C	–	64.0 A	37.0 A	–	–
F 65/250B	–	70.0 A	40.4 A	–	–
F 65/250A	–	88.0 A	50.8 A	–	–
F 80/160D	45.0 A	26.0 A	15.0 A	50.0 A	27.0 A
F 80/160C	59.0 A	34.0 A	19.7 A	60.0 A	30.0 A
F 80/160B	66.0 A	38.0 A	22.0 A	70.0 A	36.0 A
F 80/160A	93.5 A	54.0 A	31.2 A	79.0 A	48.0 A
F 80/200B	–	61.0 A	35.0 A	–	–
F 80/200A	–	70.0 A	40.5 A	–	–
F 80/250B	–	88.0 A	51.0 A	–	–
F 80/250A	–	112.0 A	65.0 A	–	–
F 100/160A	90.0 A	52.0 A	30.1 A	78.0 A	45.0 A
F 100/200C	–	64.0 A	37.0 A	–	–
F 100/200B	–	70.0 A	40.4 A	–	–
F 100/200A	–	88.0 A	50.8 A	–	–
F 100/250B	–	94.0 A	54.3 A	–	–
F 100/250A	–	132.0 A	76.2 A	–	–

DIMENSIONS AND WEIGHT



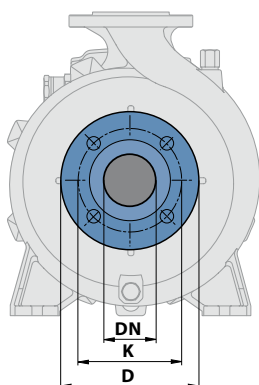
MODEL		DIMENSIONS mm													kg												
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	h2	n	n1	n2	w1	w2	s	1~	3~											
Fm 32/160C	F 32/160C	50	32	80	412	292	132	160	242	190	240	35	35	14	32.7	32.1											
Fm 32/160B	F 32/160B				448/412										37.5	33.4											
-	F 32/160A				448										-	37.4											
-	F 32/200C				469										-	46.4											
-	F 32/200B				515										-	48.4											
-	F 32/200A				469										-	56.9											
-	F 32/200BH			-		42.4																					
-	F 32/200AH			-		46.4																					
-	F 32/250C			100	606	405	180	225	330	250	320	47.5	47.5		-	100.0											
-	F 32/250B				701										-	102.0											
-	F 32/250A				-										-	119.8											
Fm 40/125C	F 40/125C	65	40	80	421	252	112	140	244	160	210	35	35		31.5	29.5											
Fm 40/125B	F 40/125B				451/421										33.0	31.5											
Fm 40/125A	F 40/125A				448/412										35.5	33.0											
Fm 40/160C	F 40/160C				448										37.6	33.5											
-	F 40/160B				465										-	37.5											
-	F 40/160A				100										535	340	160	180	275	212	265	47.5	47.5	-	54.0		
-	F 40/200B			606		405	180	225	328	250	320	47.5	47.5		-									100.0			
-	F 40/200A			701											-									102.0			
-	F 40/250C			465/431											292									132	160	242	190
-	F 40/250B			465		-	37.3																				
-	F 40/250A			465		-	33.2																				
Fm 50/125C	F 50/125C			65		50	100	465/431	292	132	160	242	190		240									35	35	-	37.2
-	F 50/125B							465																		-	43.3
-	F 50/125A							484																		-	48.0
-	F 50/160C				489			-								52.5											
-	F 50/160B	535	340		180			269								212	265	47.5	47.5	-	56.4						
-	F 50/160A	616																		160	200	316	-			97.7	
-	F 50/200C	711	360		200			316								-	114.0										
-	F 50/200B	743														-	126.5										
-	F 50/200A	606	405		180			225								337	250	320	47.5	47.5	-	140.3					
-	F 50/200AR	701																			-	101.3					
-	F 50/250D	733					-		103.3																		
-	F 50/250C	511					-		120.4																		
-	F 50/250B	557					-		134.3																		
-	F 50/250A	621	360		200		300	212	280	47.5	47.5	-	147.4														
-	F 50/250AR	716										-	53.5														
-	F 65/125C	719										-	56.8														
-	F 65/125B	751	405		180		225	340	250	320	60	60	18		-	63.3											
-	F 65/125A	652													-	98.3											
-	F 65/160C	747													-	99.3											
-	F 65/160B	779													-	114.3											
-	F 65/160A	790	100		80		125	790	480	200	280	362	280		360	60	60	-	120.3								
-	F 65/200B	719		-		132.9																					
-	F 65/200A	751		-		144.4																					
-	F 65/200AR	652	100	80	125	652	405	180	225	340	250	320	60		60	-	103.8										
-	F 80/160D	747				-										115.6											
-	F 80/160C	779				-										133.1											
-	F 80/160B	790				-										144.6											
-	F 80/160A	790	125	100	790	480	200	280	362	280	360	60	60		18	-	151.3										
-	F 100/160A	125	100	790	480	200	280	362	280	360	60	60	18	-	151.3												

DIMENSIONS AND WEIGHT



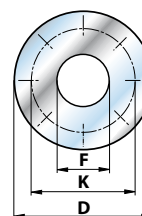
MODEL	DIMENSIONS mm														kg
Three-phase	DN1	DN2	a	f	h	h1	h2	h3	n	n1	n2	w	m	s	3~
F 65/250C	80	65	100	796	450	200	250	15	369	318	360	269.5	305	18.5	201.3
F 65/250B				847											201.3
F 65/250A				847											219.3
F 80/200B	100	80	125	824	430	250	280	25	360	400	490	294	350	24	201.6
F 80/200A				875											201.6
F 80/250B				872											234.5
F 80/250A	125	100	140	1015	620	250	280	55	490	400	490	300	350	24	539.0
F 100/200C				824											225.3
F 100/200B				875											225.3
F 100/200A	125	100	140	875	480	200	280	0	391	318	360	269.5	305	18.5	233.3
F 100/250B				875											539.3
F 100/250A				875											539.3

FLANGED PORTS



COUNTER FLANGES

(CAN BE ORDERED SEPARATELY)



DN FLANGES	D	K	HOLES	
mm	mm	mm	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		

DN FLANGES	F	D	K	HOLES	
mm	COUNTER FLANGES	mm	mm	N.	Ø (mm)
32	1¼"	140	100	4	18
40	1½"	150	110		
50	2"	165	125		
65	2½"	185	145		
80	3"	200	160	8	18
100	4"	220	180		
125	5"	250	210		