



FAGGIOLATI®



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FR Pipeline circulating pump

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Pump Introduction

FR series single-stage vertical pipeline centrifugal pumps are mainly used in boilers, cooling towers, air-conditioning systems and as booster pumps in the water supply system through the centrifugal force generated by the rotating pump impeller to complete the transfer of liquids, which is mainly composed of the main shaft, impeller, pump casing, mechanical seals, the combination of the pump body and the motor through the coupling connection.FR series can be used in the work of high-temperature and high-pressure, mainly used in boilers, cooling towers, air-conditioning systems and as a booster pump in the water supply system. Its pipeline structure can ensure that the pump is directly installed in the same horizontal line and the same diameter of the horizontal pipeline system, the design makes the pump structure and pipeline more compact.

Pump operating conditions

Thin, clean, non-flammable and non-explosive liquids that

do not contain particles or fibers

Ambient temperature: not exceeding +40°C

Altitude: not more than 1000m

Maximum working pressure

Regular type: PN12bar

High pressure type: PN16bar

Minimum inlet pressure NPSH

Cavitation may occur if some of the following conditions exist during pump operation:

The tank or pool is lower than the pump inlet

Liquid temperature is too high

The actual flow rate used is significantly greater than the rated flow rate

The pressure in the pump is lower than the vaporization pressure of the conveyed liquid

To avoid cavitation, ensure that there is a minimum pressure on the inlet side of the pump. The maximum suction lift H [m] can be calculated as follows:

$$H = P_b \times 10.2 - NPSH - H_f - H_v - H_s$$

P_b = atmospheric pressure [bar]

(Atmospheric pressure can be set to 1 bar)

In a closed system, P_b is the system pressure [bar]

NPSH = Net Positive Suction Head

(can be read from the NPSH curve at the maximum possible flow rate of the pump)

H_f = line loss at inlet [m]

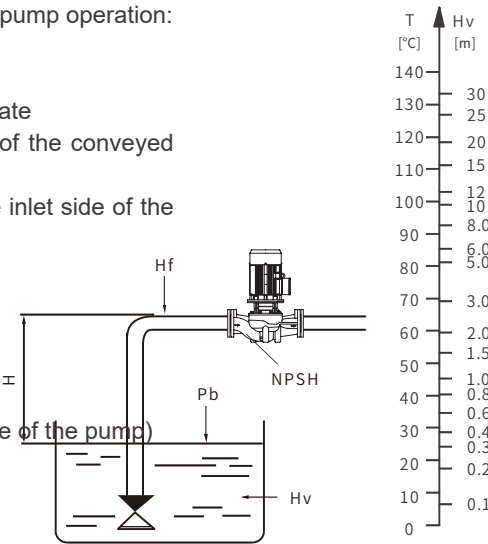
H_v = Vaporization pressure [m]

H_s = safety margin = minimum 0.5m head

If the calculated H is positive, the pump can be operated with a maximum suction lift of H.

Check to make sure that the pump is not/was not in a state of vaporization

If the calculated H is negative, there must be a head with a minimum inlet pressure H.



Pump fluid temperature

- **Room temperature type pumps:**

Liquid temperature between -15°C and +70°C

- **Hot water type pumps:**

Liquid temperature between -20°C and +140°C

Pump Connection

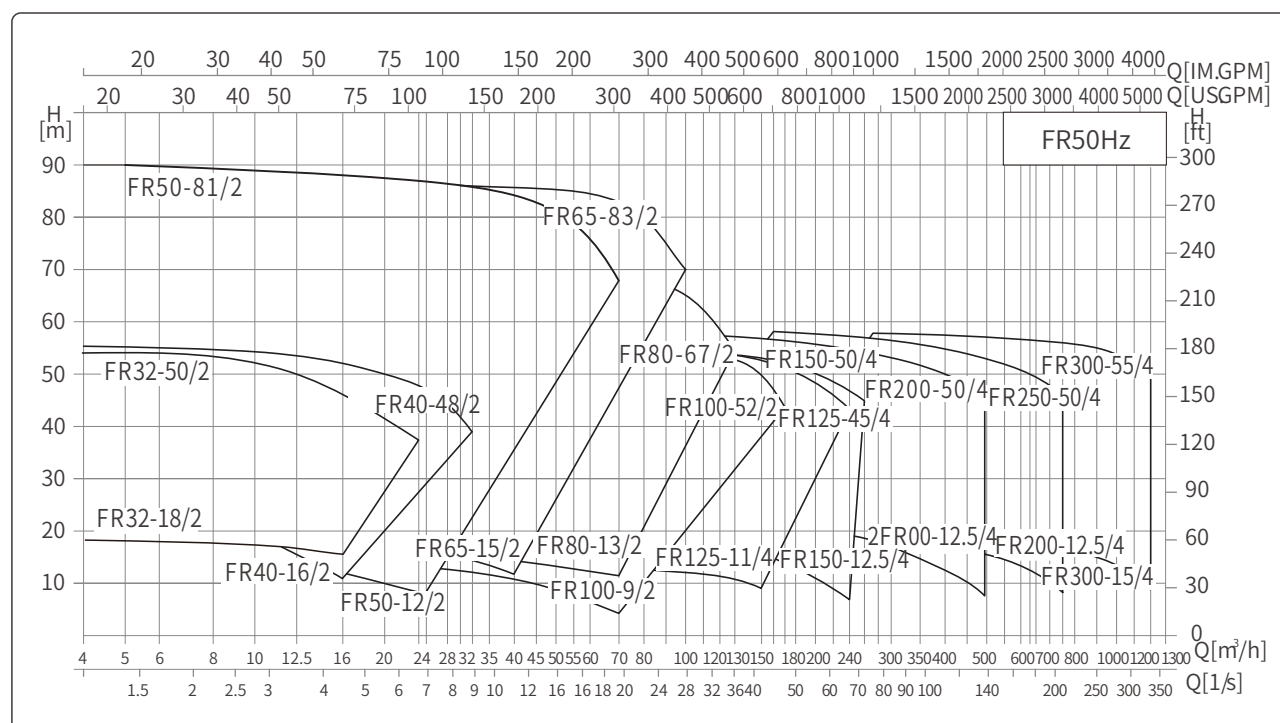
Pull-up design, the motor and the pump body are separated.

The pump head is used as the connecting device between the motor and the pump body, and the

O-ring is used as the sealing member between the pump body and the motor.

The flange size conforms to GB/T17241.6 or ISO7005-2/DIN2501 standard about PN16.

performance range



Performance curve

All curves are based on 3 x 380V, motor measurements at constant speeds of 2900rpm, 1480rpm or 1450rpm.

Curve tolerances in accordance with ISO9906

Test medium temperature is 20 °C, free of any solid impurities and air and water.

The use of the pump refers to the performance range of the bold line, in order to prevent the flow rate is too small to make the motor overheating, or the flow rate is too large to overload the motor and so on.

Motor

Squirrel cage type fully enclosed air-cooled IEC motor, applicable to continuous work system operation

Protection class: IP55

Insulation grade: F

Standard voltage: 3×220-240/380-415V

1×220-240V

Single-phase motors from 0.37kW-2.2kW are available.

Typical application



District heating systems



HVAC, Air Conditioning Systems



cooling system



Domestic hot water system



Industrial Liquid Transportation



water supply system

Model Description

Pumps can be identified by the model code indicated on the nameplate.
Example: FR65-34/2-SI-N

FR

65

34

2

-SI

-N

N table normal temperature
H hot water

Overcurrent parts
S I table 1.4301/AISI304
S II table 1.4401/AISI316

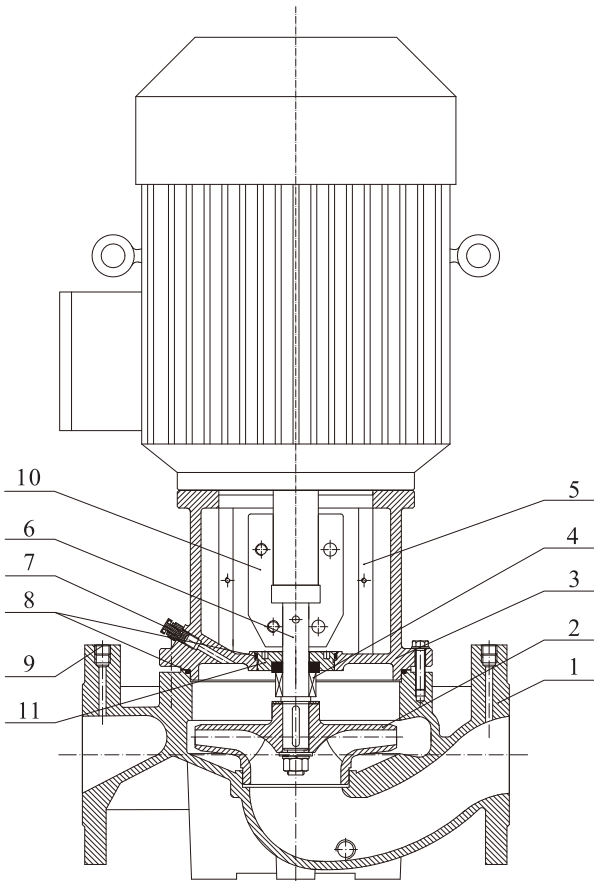
Number of motor stages

Rated head [m]

Rated diameter of suction and discharge ports
DN

Pipeline circulation pumps

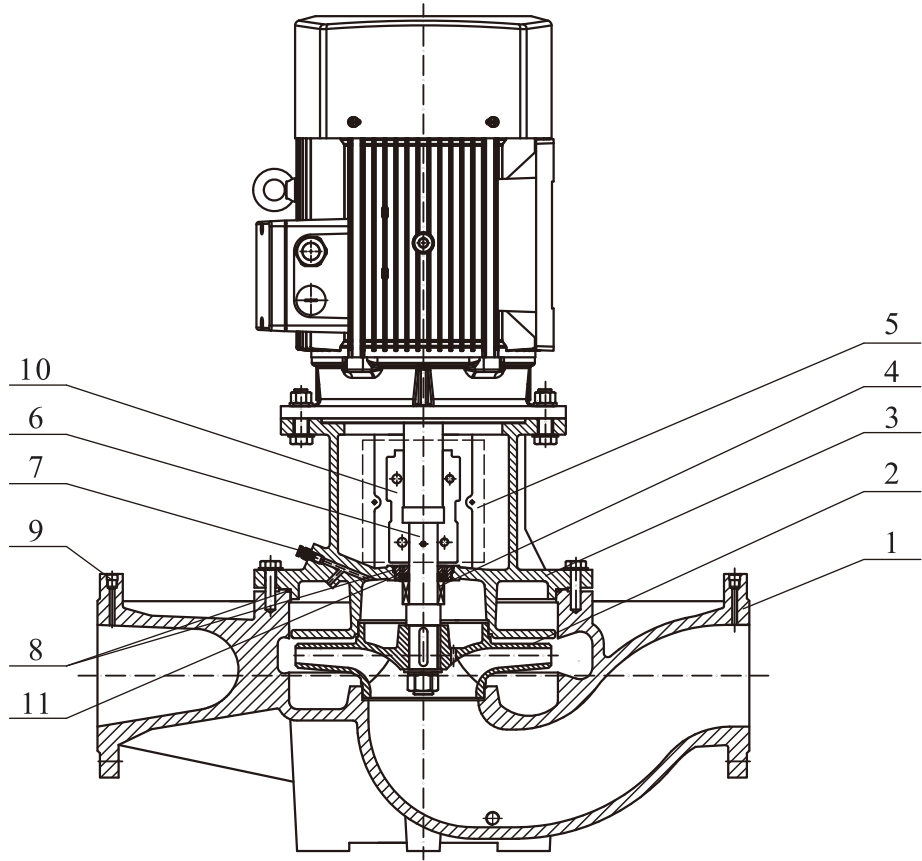
Structural diagram FR32-18/2-FR125-14/4



Material FR32-18/2-FR125-14/4

NO.	parts	material	GB	EN DIN	AISI/ASTM
1	pump body	foundry iron	GB 9439-HT200	EN 1561 EN-GJL-200	ASTM25B
2	impellers	foundry iron	GB 9439-HT200	EN 1561 EN-GJL-200	ASTM25B
		stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304
3	pump head	foundry iron	GB 9439-HT200	EN 1561 EN-GJL-200	ASTM25B
4	mechanical seal	/	/	/	/
5	shielding plate	stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304
6	pump shaft	stainless steels	GB/T20878-20Cr13	EN10088-1.4021	AISI420
7	Bleeder assembly	stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304
8	rubber ring	EPDM	/	/	/
9	plug	stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304
10	coupling	foundry iron	GB 1348-QT500-7	EN1563 EN-GJS-500-7	ASTM 65-45-12
11	seals	carbon steel	45#	C45	ASTM1045

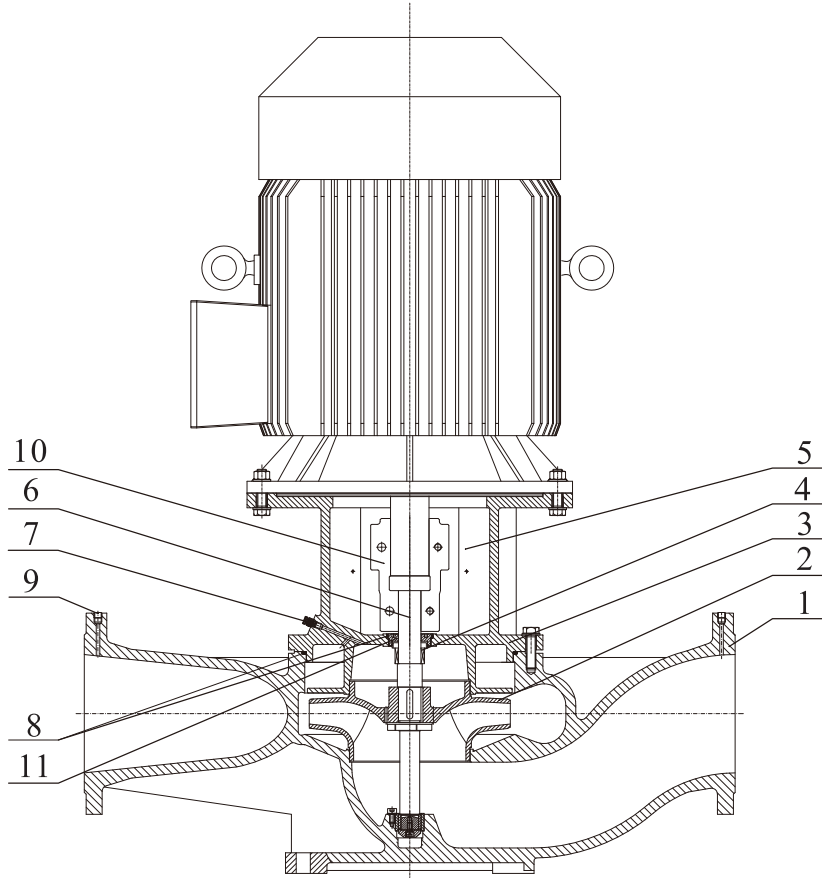
Structural diagram FR125-18/4-FR150-50/4



Material FR125-18/4-FR150-50/4

NO.	parts	material	GB	EN DIN	AISI/ASTM
1	pump body	foundry iron	GB 9439-HT200	EN 1561 EN-GJL-200	ASTM25B
2	impellers	foundry iron	GB 9439-HT200	EN 1561 EN-GJL-200	ASTM25B
		stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304
3	pump head	foundry iron	GB 9439-HT200	EN 1561 EN-GJL-200	ASTM25B
4	mechanical seal	/	/	/	/
5	shielding plate	stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304
6	pump shaft	stainless steels	GB/T20878-20Cr13	EN10088-1.4021	AIS1420
7	Bleeder assembly	stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304
8	rubber ring	EPDM	/	/	/
9	plug	stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304
10	coupling	foundry iron	GB 1348-QT500-7	EN1563 EN-GJS-500-7	ASTM 65-45-12
11	seals	carbon steel	45#	C45	ASTM1045

Structural diagram FR200~FR250



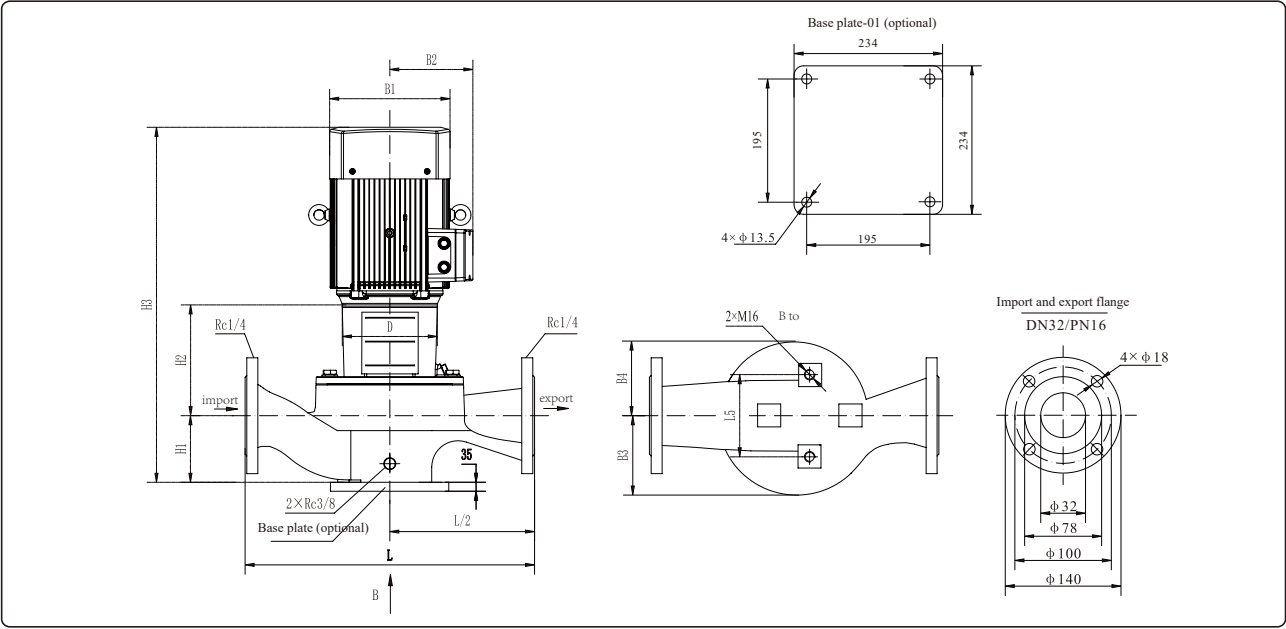
Material FR200~FR250

NO.	parts	material	GB	EN DIN	AISI/ASTM
1	pump body	foundry iron	GB 9439-HT200	EN 1561 EN-GJL-200	ASTM25B
2	impellers	foundry iron	GB 9439-HT200	EN 1561 EN-GJL-200	ASTM25B
		stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304
3	pump head	foundry iron	GB 9439-HT200	EN 1561 EN-GJL-200	ASTM25B
4	mechanical seal	/	/	/	/
5	shielding plate	stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304
6	pump shaft	stainless steels	GB/T20878-20Cr13	EN10088-1.4021	AIS1420
7	Bleeder assembly	stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304
8	rubber ring	EPDM	/	/	/
9	plug	stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304
10	coupling	foundry iron	GB 1348-QT500-7	EN1563 EN-GJS-500-7	ASTM 65-45-12
11	seals	carbon steel	45#	C45	ASTM1045

Operational performance data

Model	Motor power		Q (m³/h)	2	4	6	8	10	12.5	14	16
	(kW)	(HP)									
FR32-18/2	1.1	1.5	H (m)	19.3	19.1	18.7	18	16.7	14.3		
FR32-21/2	1.5	2.0		24.4	24.2	23.9	23.3	22.5	21	19.4	15.8
FR32-25/2	2.2	3.0		28.2	28.2	28	27.5	26.7	25	23.6	20.6
FR32-32/2	3	4.0		34.2	34.2	33.9	33.6	33.1	32	30.8	28.1
FR32-38/2	4	5.5		39.7	39.8	39.7	39.4	39	38	37	35.1
FR32-50/2	5.5	7.5		51.6	51.6	51.4	51.1	50.7	50	49.3	47.9

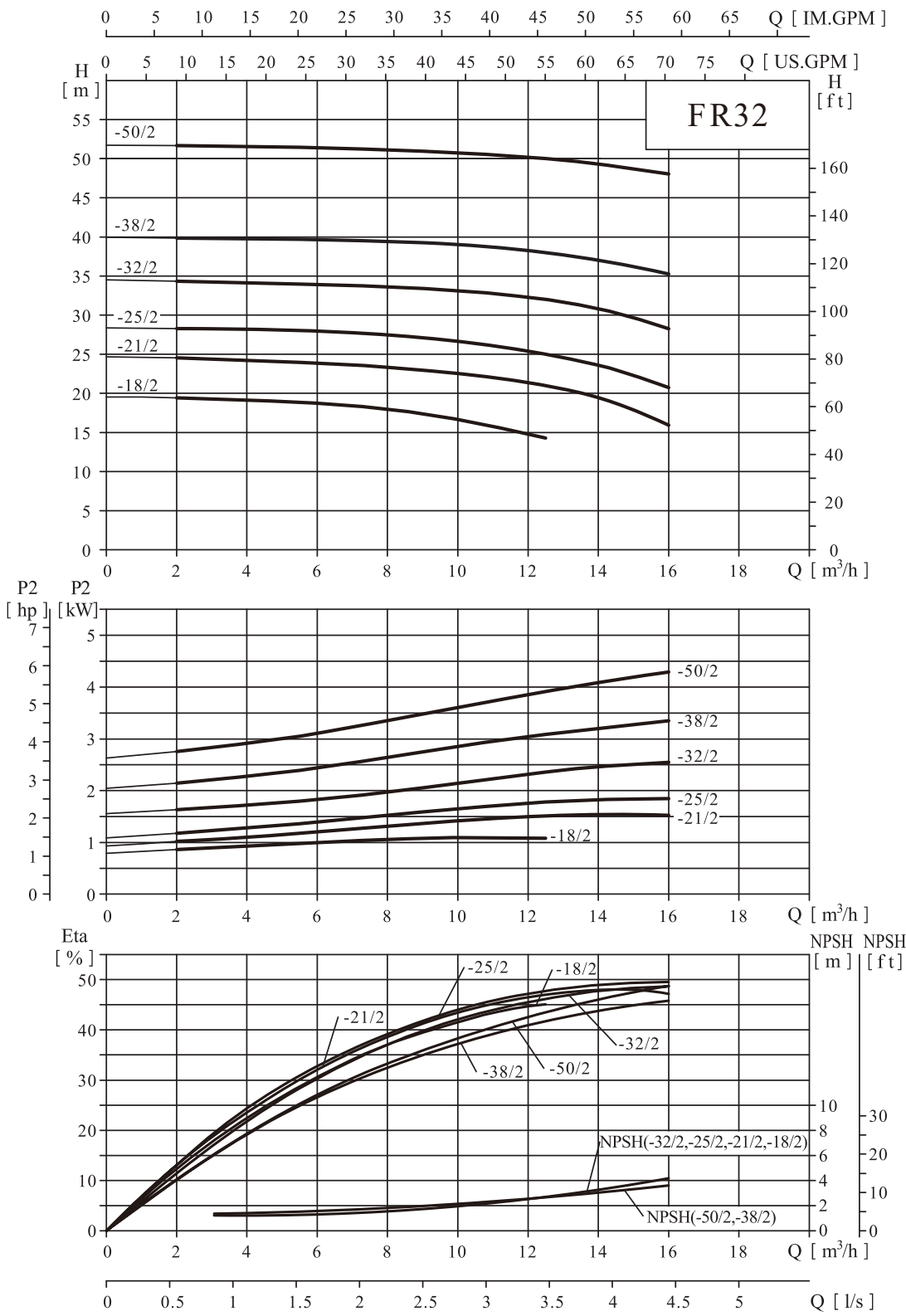
Installation dimensions and product weight



Model	Dimensions [mm]										Weight kg
	D	B1	B2	B3	B4	B5	H1	H2	H3	L	
FR32-18/2	120	170	142	124	116	144	100	189	540	340	36
FR32-21/2	140	190	155	124	116	144	100	199	592	340	40
FR32-25/2	140	190	155	124	116	144	100	199	592	340	42
FR32-32/2	160	197	165	124	116	144	100	205	619	340	48
FR32-38/2	160	230	188	142	142	144	100	207	642	440	64
FR32-50/2	200	260	208	142	142	144	100	227	737	440	85

The data in the table is standard motor data, if you need to buy single-phase motor, inverter motor, explosion-proof motor and other special motors, please contact FAGGIOLATI.

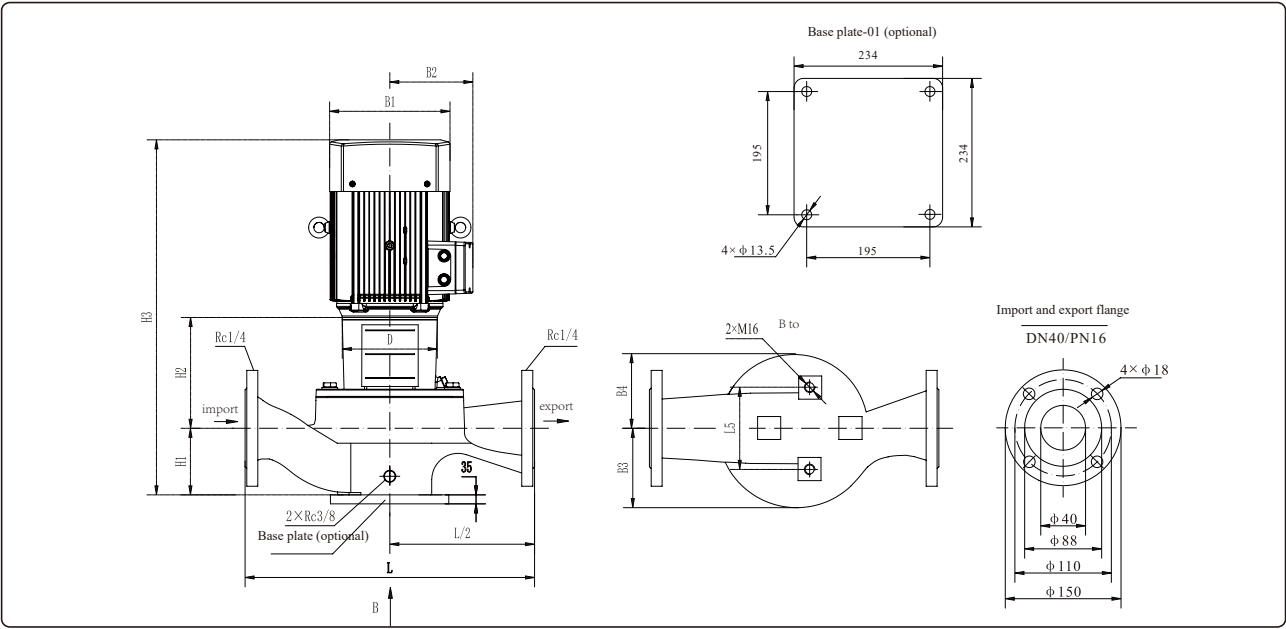
FR32-**/2 Operational Performance Curve



Operational performance data

Model	Motor power		Q (m³/h)	4	8	12.5	16	20	25	28	32
	(kW)	(HP)									
FR40-16/2	1.1	1.5	H (m)	17.7	17.3	16	12.5				
FR40-20/2	1.5	2.0		21.4	21.1	20	17.2				
FR40-18/2	2.2	3.0		19.8	19.8	19.5	19	18	15.8		
FR40-25/2	3	4.0		27.6	27.5	27.1	26.4	25	22.5		
FR40-30/2	4	5.5		33.7	33.6	33.1	32.6	31.7	30	28.6	26
FR40-36/2	5.5	7.5		38.9	38.8	38.5	38.1	37.3	36	35	32.5
FR40-48/2	7.5	10		49.7	49.7	49.5	49.4	49	48	46.6	44.1

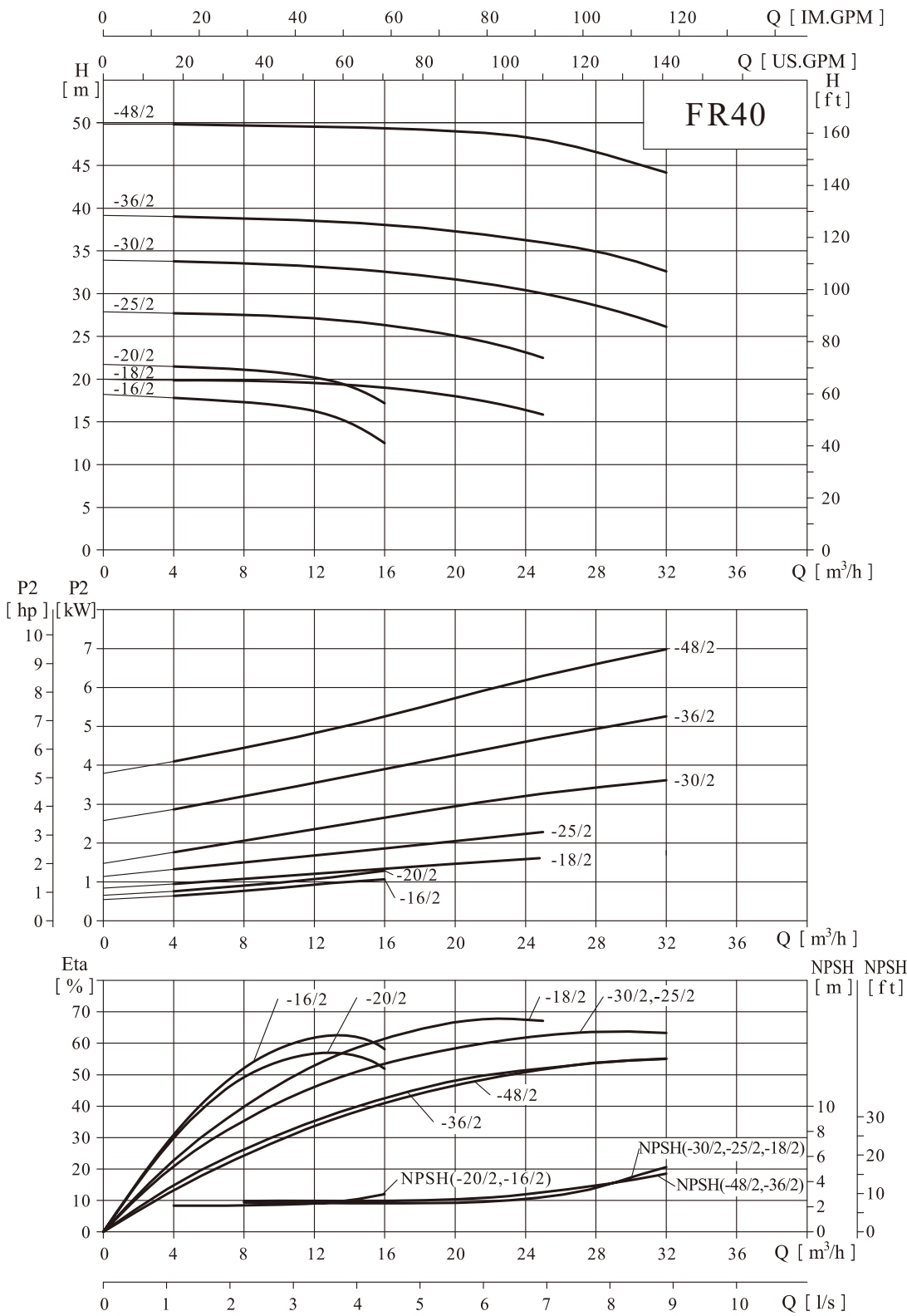
Installation dimensions and product weight



Model	Dimensions [mm]										Weight kg
	D	B1	B2	B3	B4	B5	H1	H2	H3	L	
FR40-16/2	120	170	142	96	95	120	68	178	497	320	31
FR40-20/2	140	190	155	96	95	120	68	188	549	320	36
FR40-18/2	140	190	155	109	94	144	100	195	588	340	40
FR40-25/2	160	197	165	126	114	144	100	207	621	340	52
FR40-30/2	160	230	188	126	114	144	100	207	642	340	62
FR40-36/2	200	260	208	136	123	144	110	227	747	440	86
FR40-48/2	200	260	208	136	123	144	110	227	747	440	95

The data in the table is standard motor data, if you need to buy single-phase motor, inverter motor, explosion-proof motor and other special motors, please contact FAGGIOLATI.

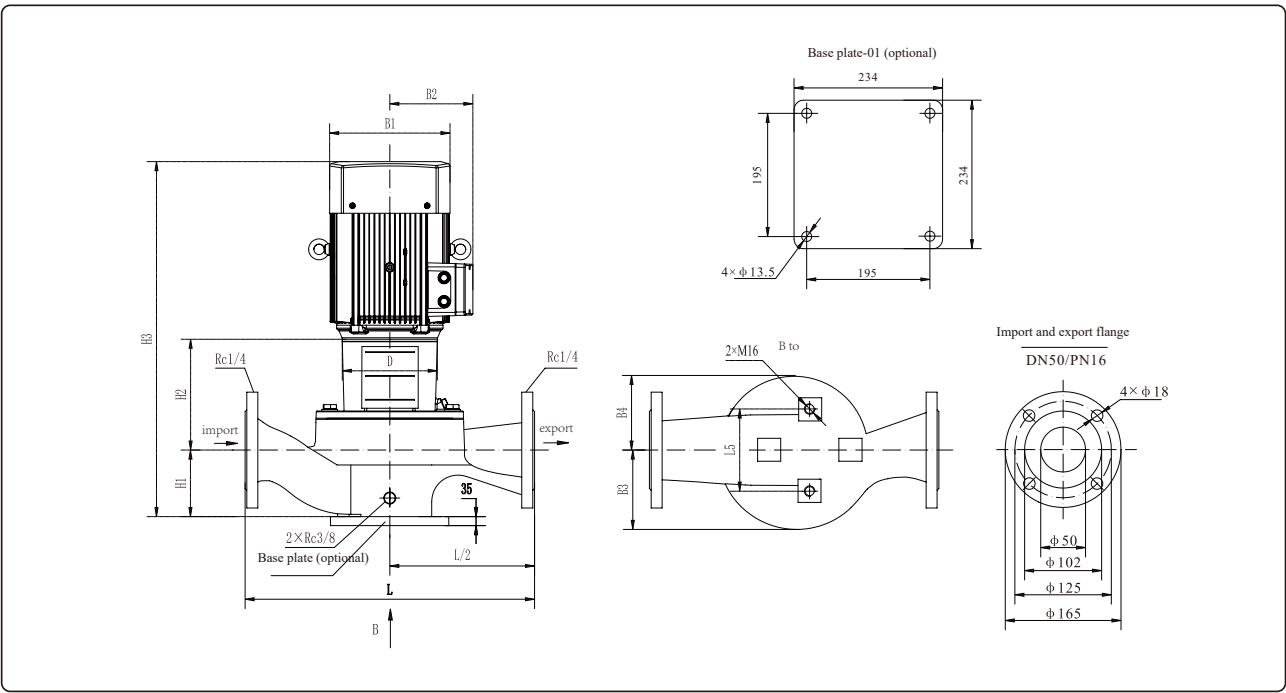
FR40-**/2 Operational Performance Curve



Operational performance data

Model	Motor power		Q (m³/h)	2.5	5	7.5	10	12.5	15	17.5	20
	(kW)	(HP)									
FR50-32/2	3	4.0	H (m)	34.9	34.6	34	33.2	32	30.5	27.9	23.2
FR50-38/2	4	5.5		40.7	40.6	40.2	39.2	38	36.2	33.9	30.3
FR50-48/2	5.5	7.5		50.4	50	49.7	49	48	46.5	44.2	40.6

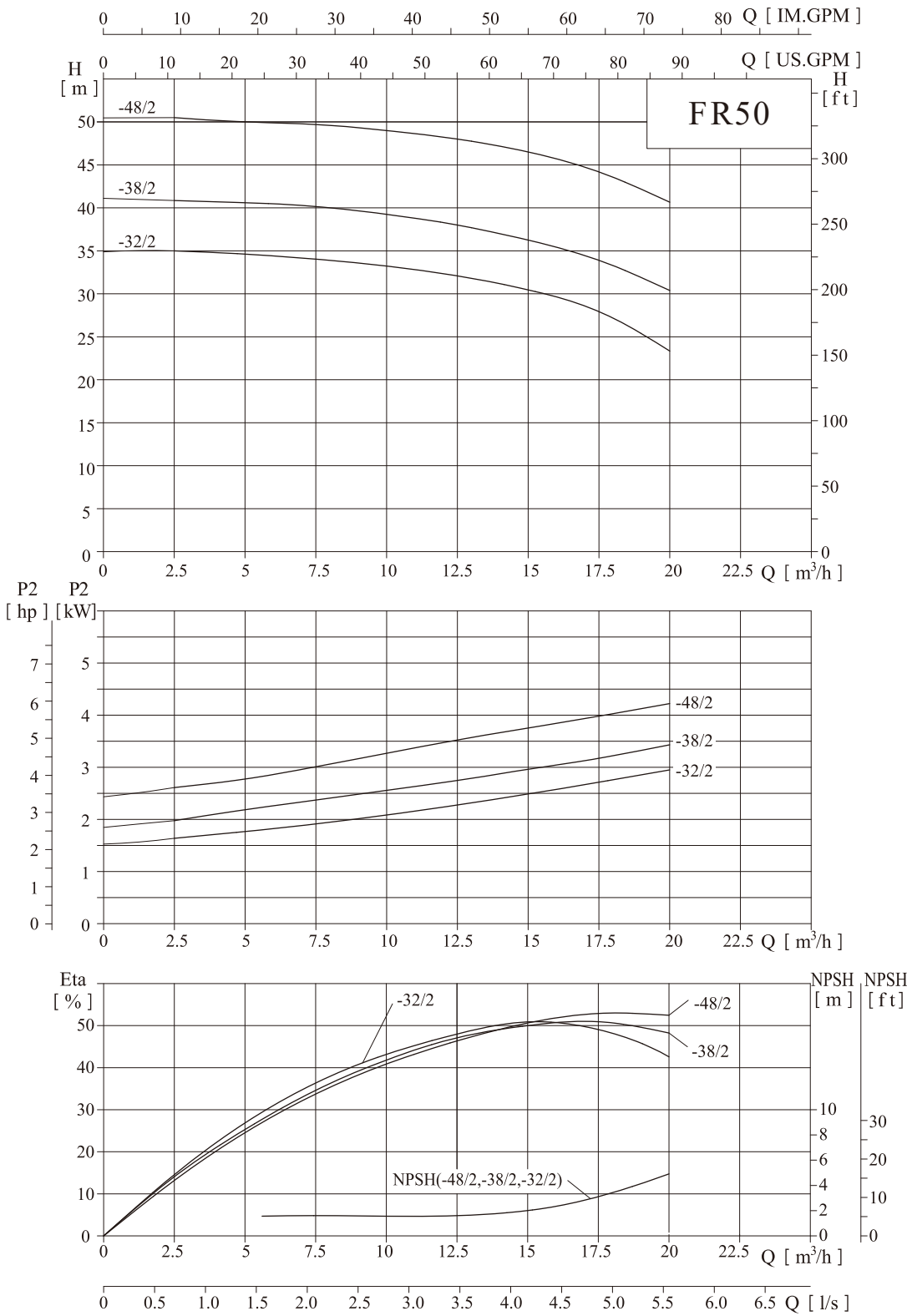
Installation dimensions and product weight



Model	Dimensions [mm]										Weight kg
	D	B1	B2	B3	B4	B5	H1	H2	H3	L	
FR50-32/2	160	197	165	128	128	144	105	181	600	400	58
FR50-38/2	160	230	188	128	128	144	105	181	621	400	68
FR50-48/2	200	260	208	128	128	144	105	201	716	400	85

The data in the table is standard motor data, if you need to buy single-phase motor, inverter motor, explosion-proof motor and other special motors, please contact FAGGIOLATI.

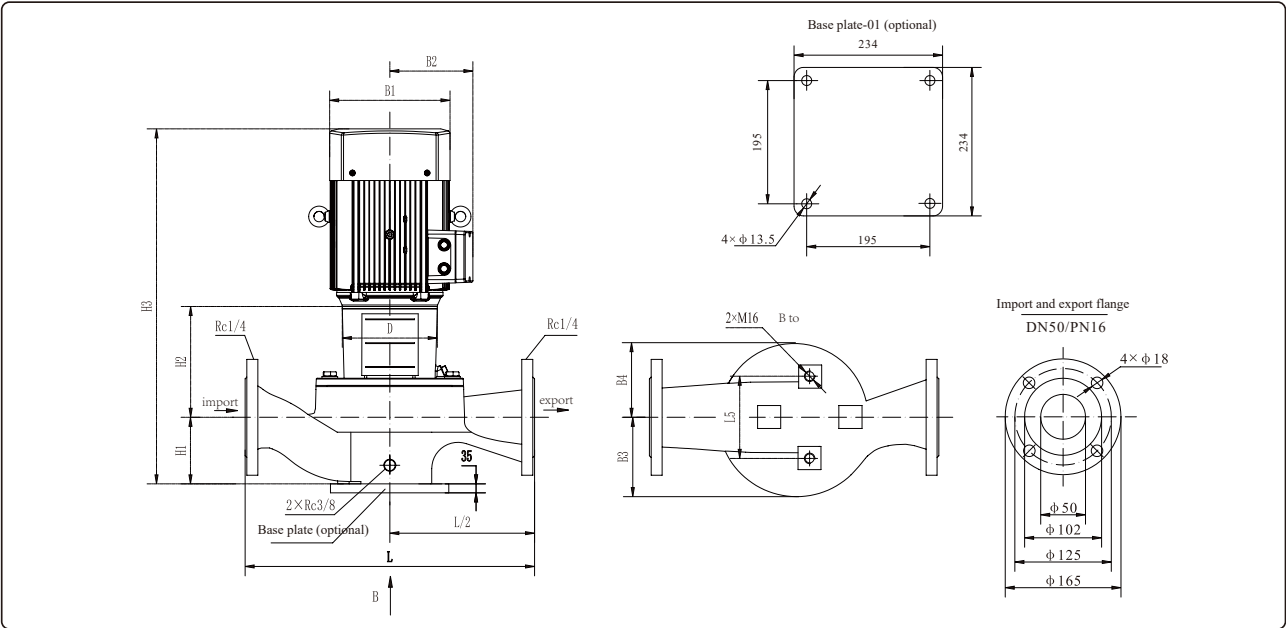
FR50-**/2 Operational Performance Curve



Operational performance data

Model	Motor power		Q (m³/h)	5	10	16	20	25	30	35	40	45	50	60
	(kW)	(HP)												
FR50-12/2	1.1	1.5	H (m)	15.1	14.2	12	10							
FR50-15/2	1.5	2.0		18.8	18	16.5	15	12.6						
FR50-18/2	2.2	3.0		22.7	22.3	21	19.8	18	15					
FR50-24/2	3	4.0		26.1	26	25.5	25	24	22.3					
FR50-28/2	4	5.5		31.4	31.3	31	30.5	29.5	28	25.5				
FR50-35/2	5.5	7.5		36.8	36.7	36.5	36.2	35.8	35	33.7	31.5			
FR50-40/2	7.5	10		42.2	42.2	41.9	41.7	41.3	40.8	40	38.3	35		
FR50-50/2	11	15		53.4	53.4	53.1	52.9	52.5	51.9	51.1	50	48.4	45.8	
FR50-60/2	15	20		65.6	65.8	65.7	65.6	65.3	64.7	63.9	62.8	61.6	60	55.3
FR50-70/2	18.5	25		73.6	73.6	73.4	73.3	73.1	72.9	72.5	72	71.2	70	65.3
FR50-81/2	22	30		85.4	85.3	85	84.8	84.5	84	83.5	82.8	82.1	81	77

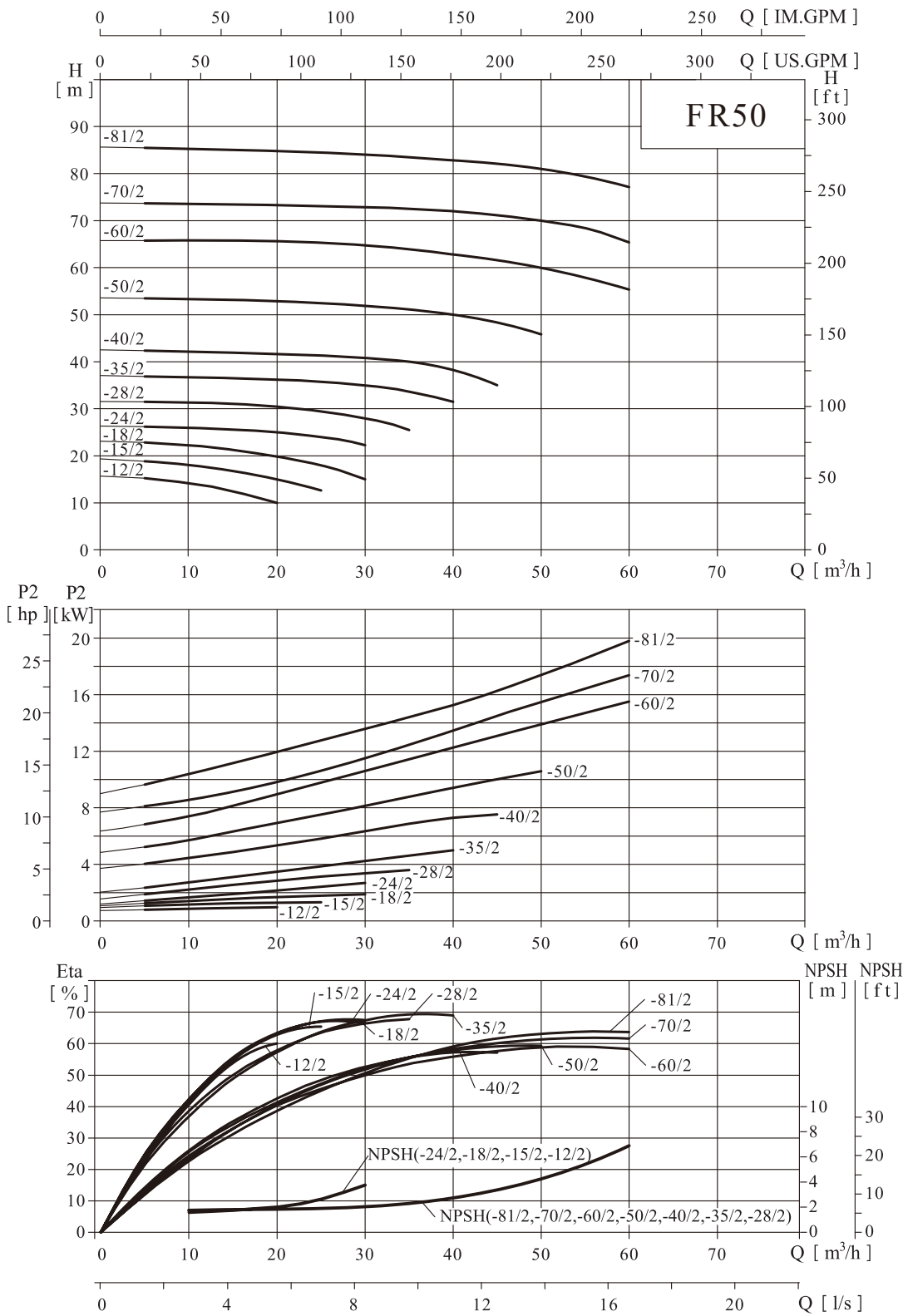
Installation dimensions and product weight



Model	Dimensions [mm]										Weight kg
	D	B1	B2	B3	B4	B5	H1	H2	H3	L	
FR50-12/2	120	170	142	116	114	144	105	174	530	340	36
FR50-15/2	140	190	155	116	114	144	105	174	572	340	42
FR50-18/2	140	190	155	116	114	144	105	174	572	340	44
FR50-24/2	160	197	165	116	114	144	105	184	603	340	50
FR50-28/2	160	230	188	128	114	144	100	198	633	340	64
FR50-35/2	200	260	208	128	114	144	100	218	727	340	83
FR50-40/2	200	260	208	170	157	144	115	215	740	440	98
FR50-50/2	350	330	255	170	157	144	115	245	902	440	172
FR50-60/2	350	330	255	170	157	144	115	245	935	440	182
FR50-70/2	350	330	255	170	157	144	115	245	935	440	196
FR50-81/2	350	360	280	170	157	144	115	245	965	440	238

The data in the table is standard motor data, if you need to buy single-phase motor, inverter motor, explosion-proof motor and other special motors, please contact FAGGIOLATI.

FR50-**/2 Operational Performance Curve

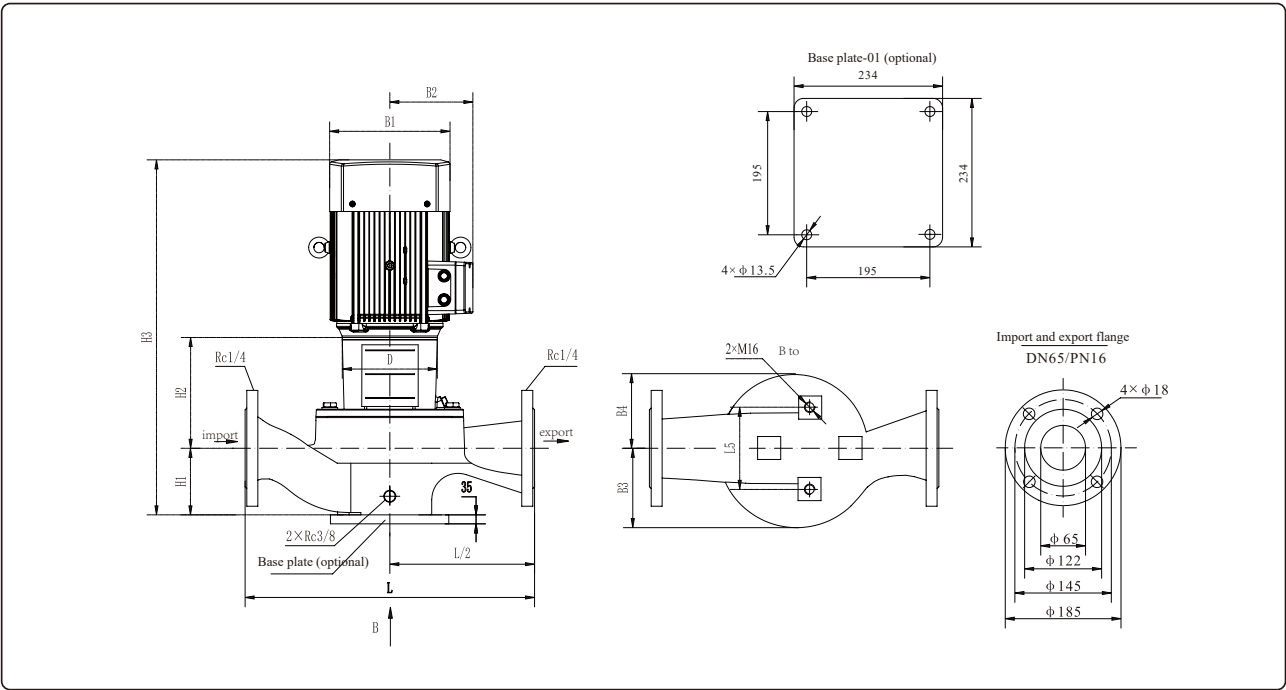


FR65-*/2 Operational Performance Curve

Operational performance data

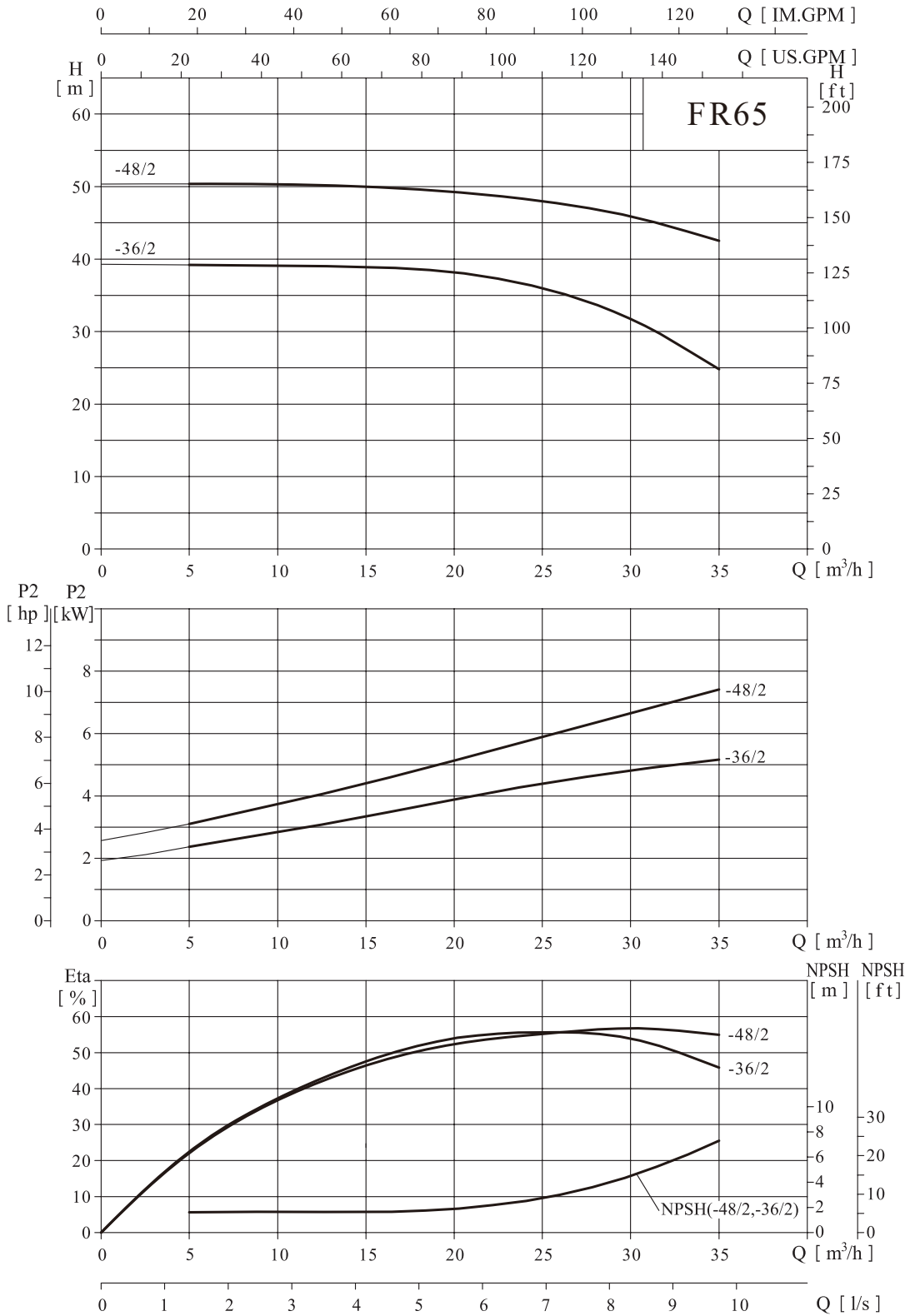
Model	Motor power		Q (m³/h)	5	10	15	20	25	30	35
	(kW)	(HP)								
FR65-36/2	5.5	7.5	H (m)	39.1	39.1	38.9	38.2	36	31.8	24.7
FR65-48/2	7.5	10		50.3	50.3	50	49.3	48	45.9	42.4

Installation dimensions and product weight



Model	Dimensions [mm]										Weight kg
	D	B1	B2	B3	B4	B5	H1	H2	H3	L	
FR65-36/2	200	260	208	127	127	144	105	209	724	400	87
FR65-48/2	200	260	208	127	127	144	105	209	724	400	94

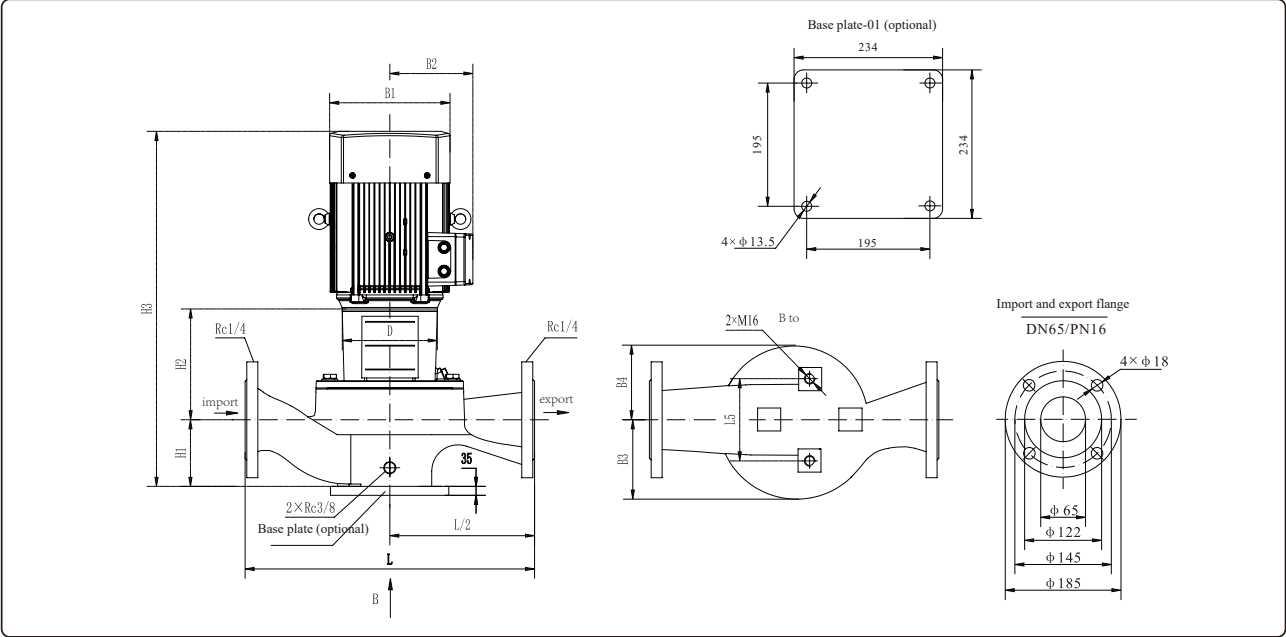
The data in the table is standard motor data, if you need to buy single-phase motor, inverter motor, explosion-proof motor and other special motors, please contact FAGGIOLATI.



Operational performance data

Model	Motor power		Q (m³/h)	10	20	30	40	50	60	70	80	90
	(kW)	(HP)										
FR65-15/2	2.2	3.0	H (m)	17.8	17	15	10.7					
FR65-19/2	3	4.0		21.6	20.8	19	15.2					
FR65-22/2	4	5.5		25	24.7	23.9	22	17.5				
FR65-30/2	5.5	7.5		32.3	32.1	31.5	30	26.1				
FR65-34/2	7.5	10		38.5	38.2	37.6	36.4	34	29.6			
FR65-40/2	11	15		43.3	42.9	42.3	41.4	40	37.6			
FR65-50/2	15	20		53.5	53.3	52.7	51.6	50	47.3			
FR65-61/2	18.5	25		63	63.2	63	62.3	61	58.8	54.8		
FR65-67/2	22	30		67.9	67.8	67.7	67.5	67	65.8	63.4	59.7	
FR65-83/2	30	40		85.3	85.1	84.6	83.9	83	81.7	80	77.8	74.1

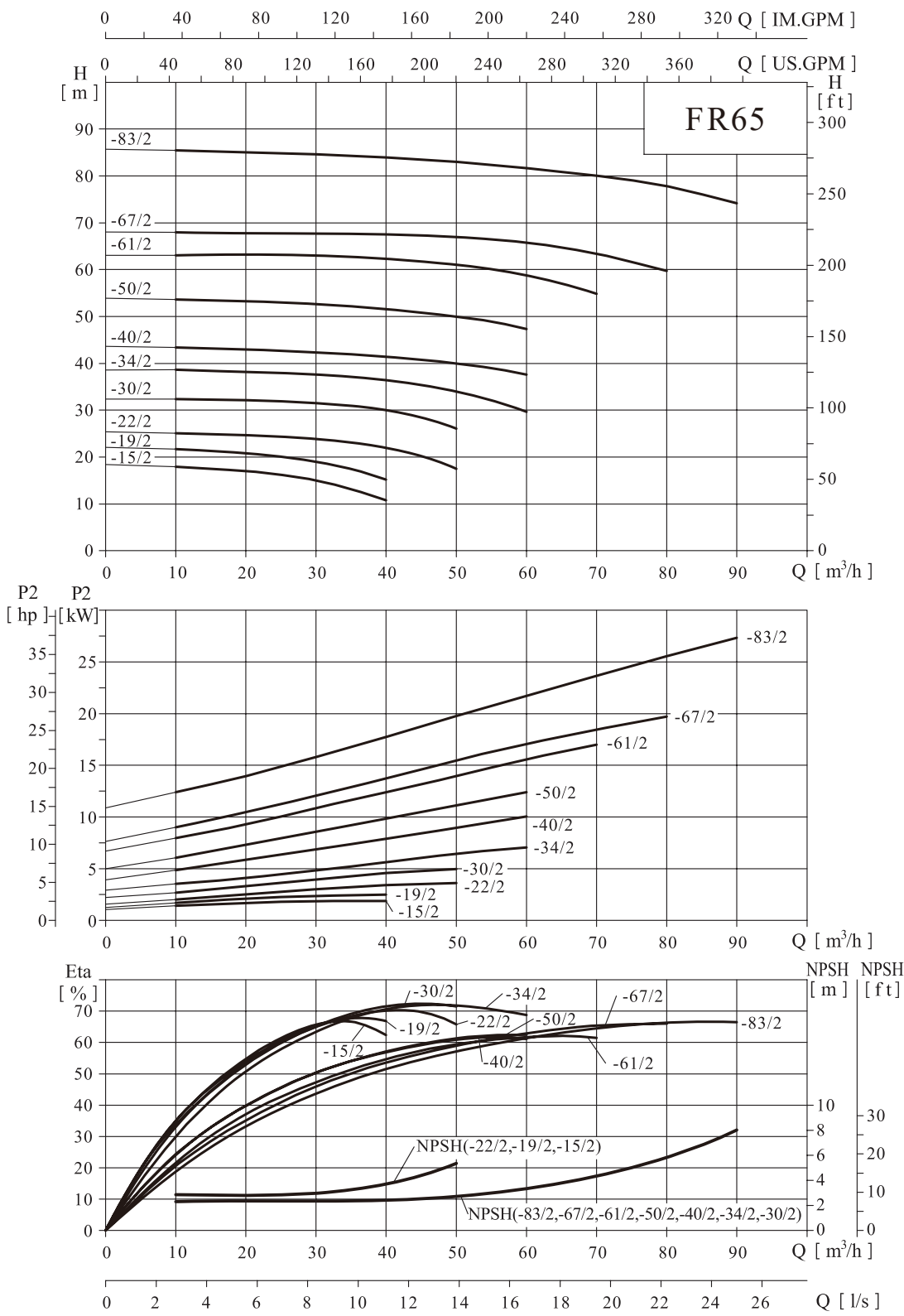
Installation dimensions and product weight



Model	Dimensions [mm]										Weight kg
	D	B1	B2	B3	B4	B5	H1	H2	H3	L	
FR65-15/2	140	190	155	141	123	144	105	193	591	360	48
FR65-19/2	160	197	165	141	123	144	105	203	622	360	57
FR65-22/2	160	230	188	141	123	144	105	203	643	360	65
FR65-30/2	200	260	208	141	123	144	105	223	738	360	84
FR65-34/2	200	260	208	141	123	144	105	223	738	360	91
FR65-40/2	350	330	255	177	165	144	125	257	924	475	178
FR65-50/2	350	330	255	177	165	144	125	257	957	475	190
FR65-61/2	350	330	255	177	165	144	125	257	957	475	202
FR65-67/2	350	330	280	177	165	144	125	257	987	475	242
FR65-83/2	400	400	305	177	165	144	125	257	1047	475	298

The data in the table is standard motor data, if you need to buy single-phase motor, inverter motor, explosion-proof motor and other special motors, please contact FAGGIOLATI.

FR65-*/2 Operational Performance Curve

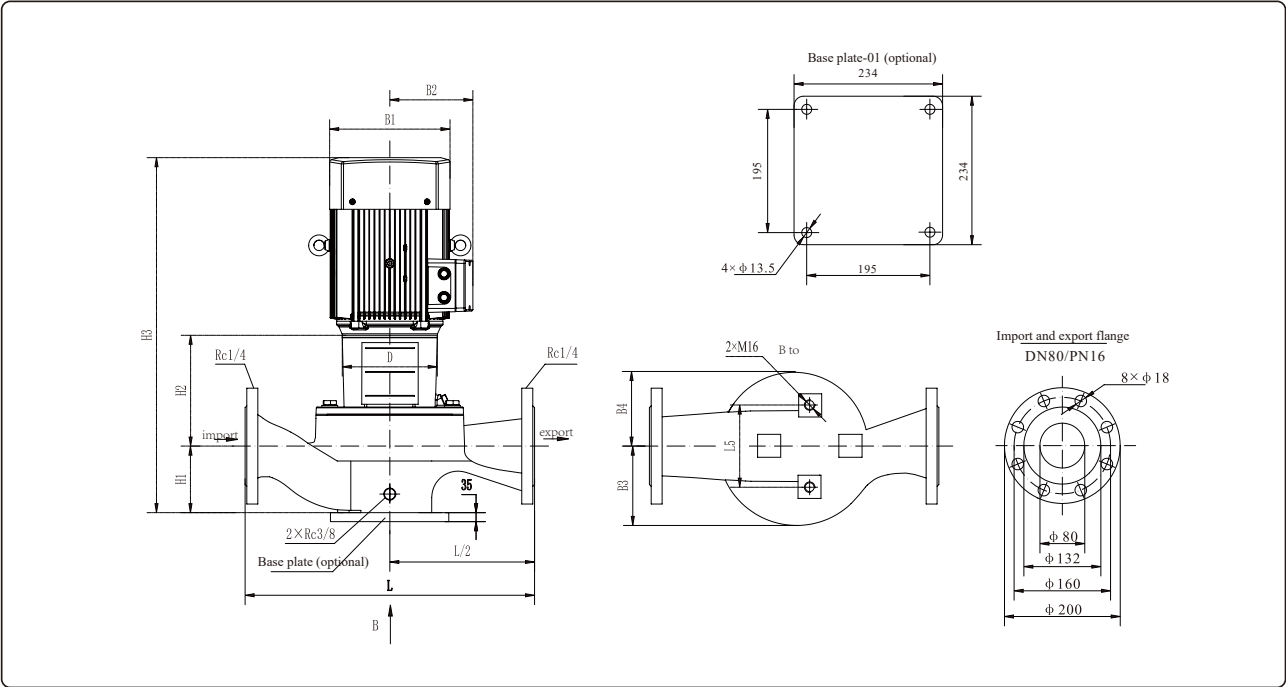


FR80-*/2 Operational Performance Curve

Operational performance data

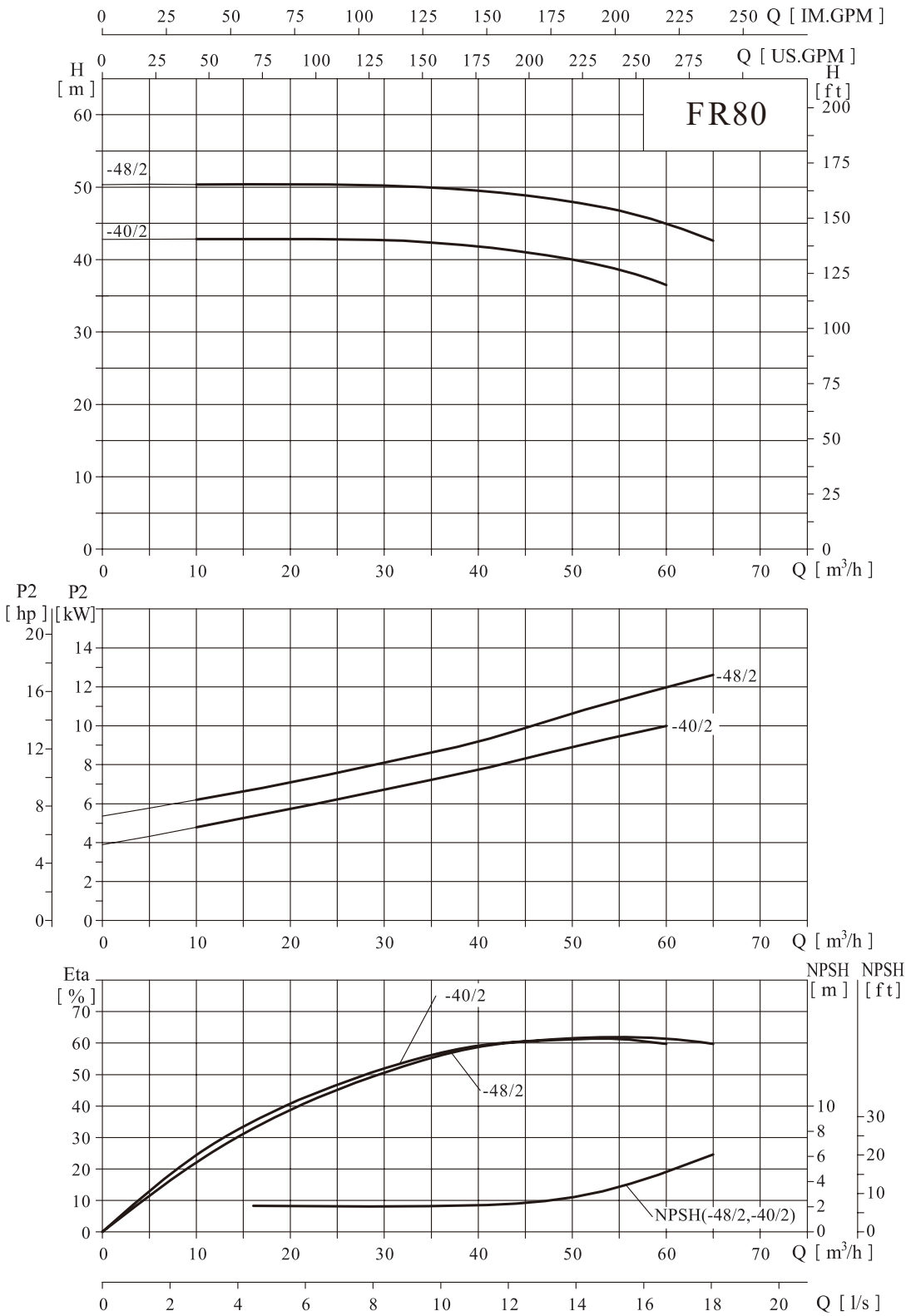
Model	Motor power		Q (m³/h)	10	20	30	40	50	60	65
	(kW)	(HP)								
FR80-40/2	11	15	H (m)	42.7	42.8	42.7	41.8	40	36.5	
FR80-48/2	15	20		50.3	50.4	50.2	49.5	48	45	42.5

Installation dimensions and product weight



Model	Dimensions [mm]										Weight kg
	D	B1	B2	B3	B4	B5	H1	H2	H3	L	
FR80-40/2	350	330	255	136	127	144	115	235	892	500	172
FR80-48/2	350	330	255	136	127	144	115	235	925	500	183

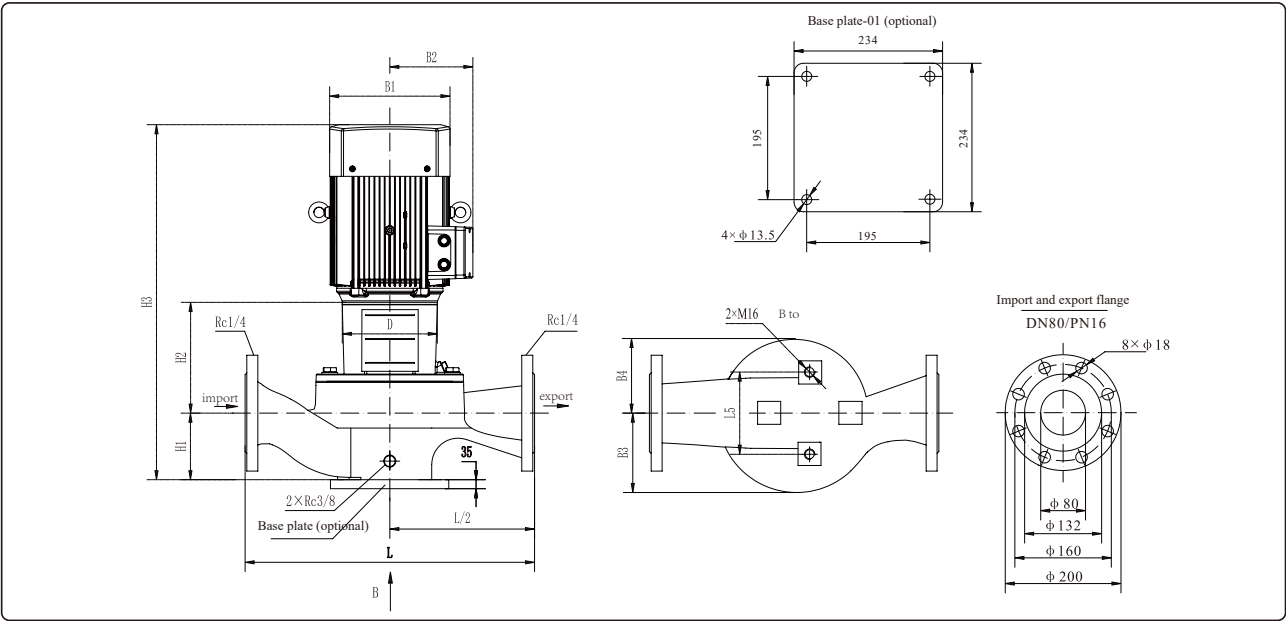
The data in the table is standard motor data, if you need to buy single-phase motor, inverter motor, explosion-proof motor and other special motors, please contact FAGGIOLATI.



Operational performance data

Model	Motor power		Q (m³/h)	10	20	30	40	50	60	70	80	90	100
	(kW)	(HP)											
FR80-13/2	3	4.0	H (m)	16	15.8	15.2	14.3	13	10.9				
FR80-18/2	4	5.5		21	20.8	20.2	19.2	18	16.2	13.2			
FR80-22/2	5.5	7.5		24.3	24.1	23.7	23	22	20.5	18	14.3		
FR80-28/2	7.5	10		30.5	30.4	30	29.3	28	26.3	24	20.6		
FR80-30/2	11	15		34.7	34.5	34.2	33.8	33.2	32.4	31.3	30	27.8	24.6
FR80-38/2	15	20		41.1	41.2	41.1	40.9	40.6	40.1	39.3	38	36	32.8
FR80-47/2	18.5	25		50.5	50.4	50	49.8	49.6	49.1	48.3	47	44.8	41.3
FR80-54/2	22	30		56.9	57	56.8	56.6	56.3	56	55.3	54	52.2	49.1
FR80-67/2	30	40		69.1	69	68.8	68.7	68.6	68.3	67.8	67	65.9	63.8

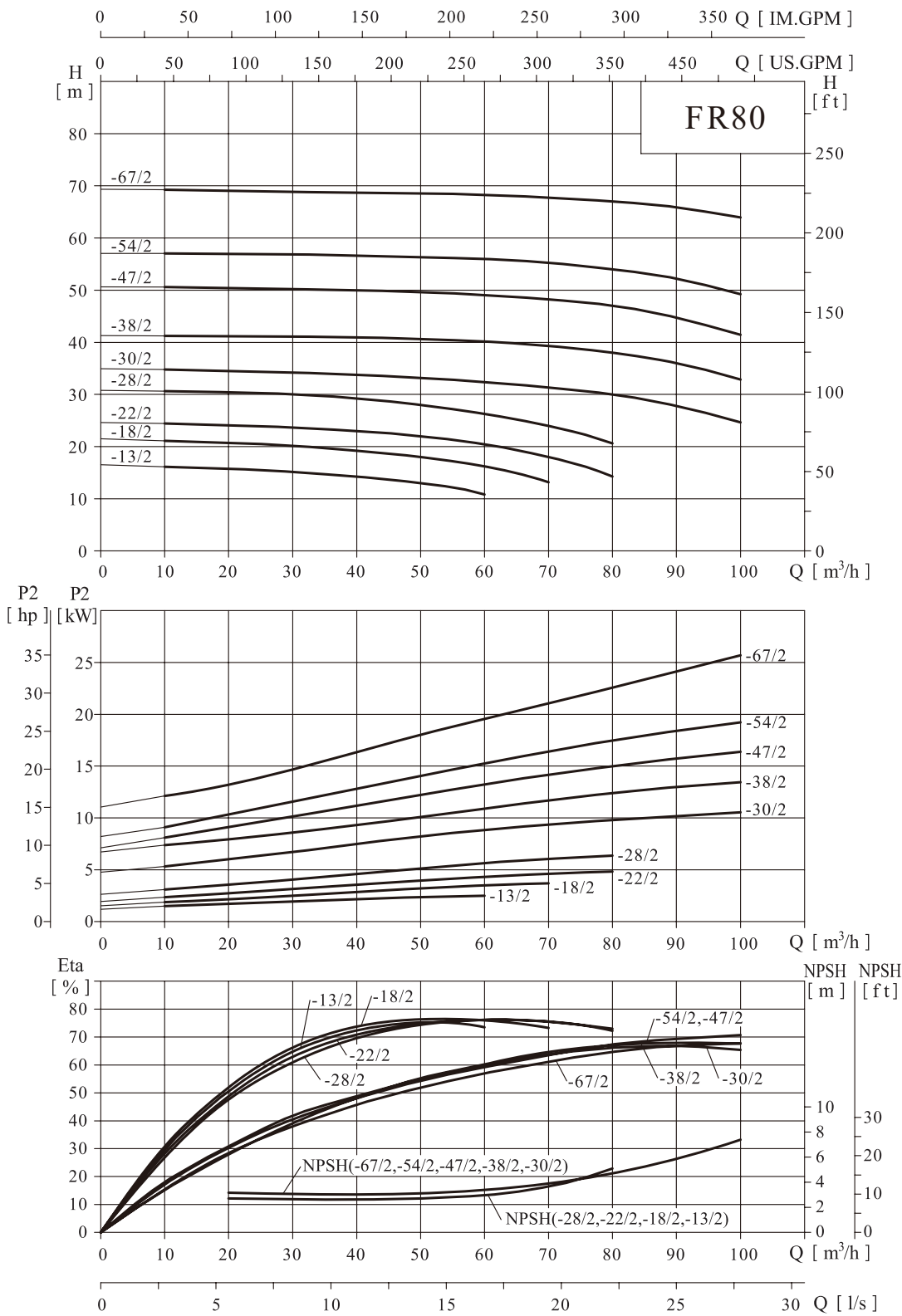
Installation dimensions and product weight



Model	Dimensions [mm]										Weight kg
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	
FR80-13/2	160	197	165	141	123	160	97	243	654	450	64
FR80-18/2	160	230	188	141	123	160	97	243	675	450	72
FR80-22/2	200	260	208	141	123	160	97	263	770	450	90
FR80-28/2	200	260	208	141	123	160	97	263	770	450	100
FR80-30/2	350	330	255	180	161	144	115	274	931	500	184
FR80-38/2	350	330	255	180	161	144	115	274	964	500	192
FR80-47/2	350	330	255	180	161	144	115	274	964	500	208
FR80-54/2	350	330	280	180	161	144	115	274	994	500	244
FR80-67/2	400	400	305	180	161	144	115	274	1054	500	302

The data in the table is standard motor data, if you need to buy single-phase motor, inverter motor, explosion-proof motor and other special motors, please contact FAGGIOLATI.

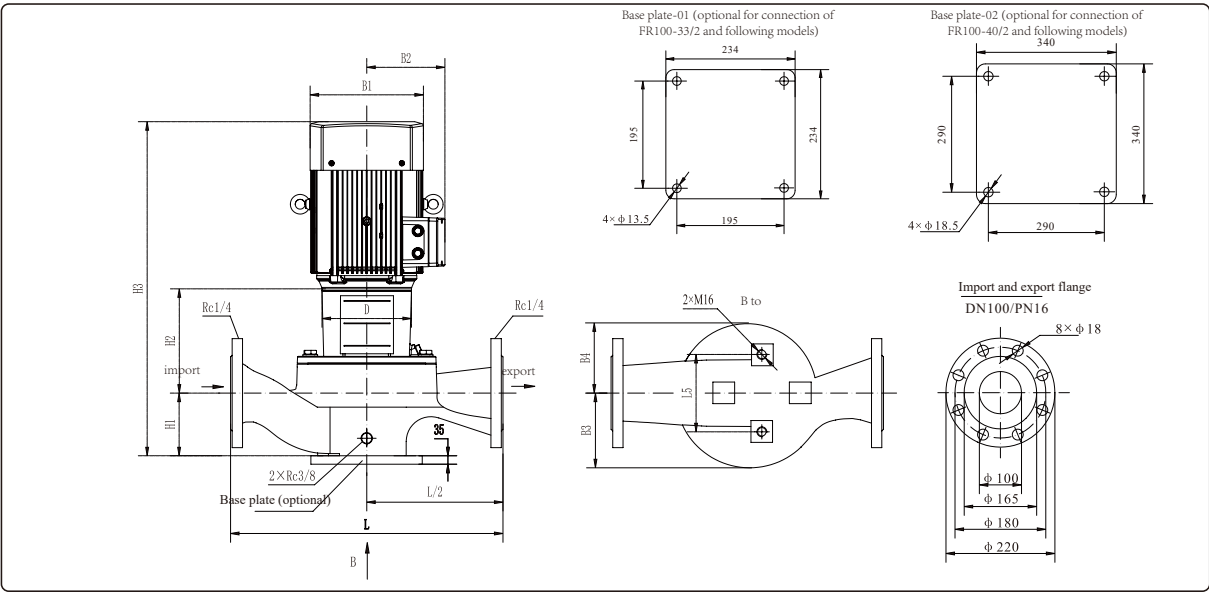
FR80-*/2 Operational Performance Curve



Operational performance data

Model	Motor power		Q (m³/h)	10	20	30	40	50	60	70	80	90	100	110	120	130	145	160
	(kW)	(HP)																
FR100-9/2	2.2	3.0	H (m)	13.8	13.2	12.2	10.8	9	6.8	4.4								
FR100-15/2	4	5.5		18.5	18.2	17.7	17.1	16.2	15	13.4	11							
FR100-17/2	5.5	7.5		21.6	21.5	21.1	20.7	20	19.2	18.3	17	15.3	13	10.4				
FR100-22/2	7.5	10		26.7	26.6	26.3	25.9	25.3	24.5	23.4	22	20.3	18.2	15.8				
FR100-27/2	11	15		31.4	31.3	31.1	30.9	30.7	30.3	29.8	29.2	28.2	27	25.5	23.6	20.8		
FR100-33/2	15	20		37	37	36.8	36.6	36.2	35.8	35.3	34.7	33.9	33	31.7	30.1	27.9		
FR100-40/2	18.5	25		43.2	43.2	43.1	42.9	42.7	42.4	42.1	41.6	40.9	40	38.9	37.4	35.3		
FR100-48/2	22	30		51.1	51.1	51	50.8	50.6	50.3	49.9	49.4	48.8	48	46.9	45.3	43.2		
FR100-52/2	30	40		55.2	55.3	55.3	55.3	55.2	55.1	54.8	54.6	54.4	54.2	53.8	53.1	52	49	43.4

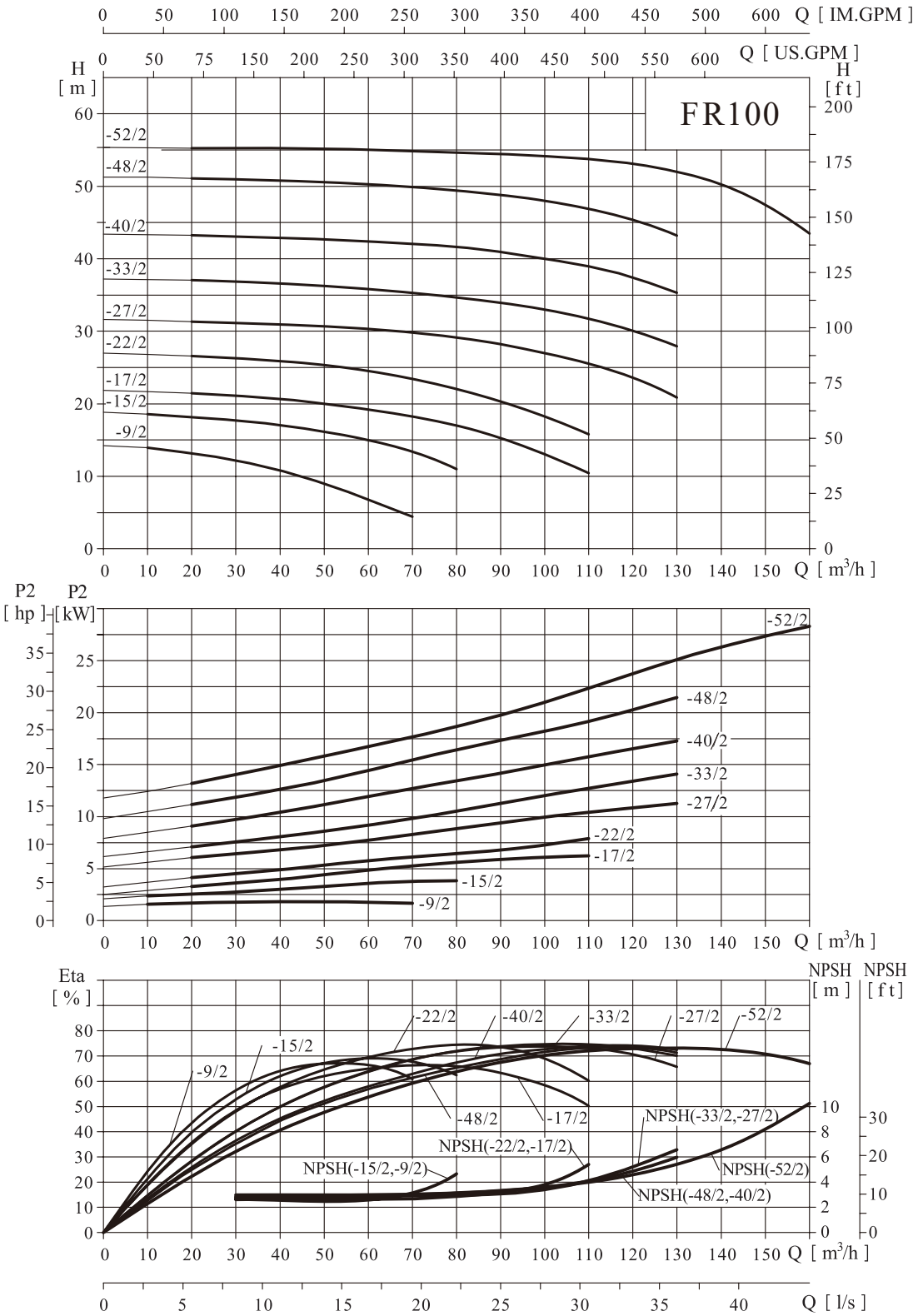
Installation dimensions and product weight



Model	Dimensions [mm]										Weight kg
	D	B1	B2	B3	B4	B5	H1	H2	H3	L	
FR100-9/2	140	175	155	132	99	160	105	211	609	450	54
FR100-15/2	160	215	190	132	99	160	105	212	652	450	70
FR100-17/2	200	260	205	148	115	144	140	237	787	500	98
FR100-22/2	200	260	205	148	115	144	140	237	787	500	106
FR100-27/2	350	350	255	145	121	144	140	252	934	550	184
FR100-33/2	350	350	255	145	121	144	140	252	967	550	194
FR100-40/2	350	350	255	179	150	230	140	266	981	550	216
FR100-48/2	350	350	280	179	150	230	140	266	1011	550	258
FR100-52/2	400	400	305	179	150	230	140	266	1071	550	312

The data in the table is standard motor data, if you need to buy single-phase motor, inverter motor, explosion-proof motor and other special motors, please contact FAGGIOLATI.

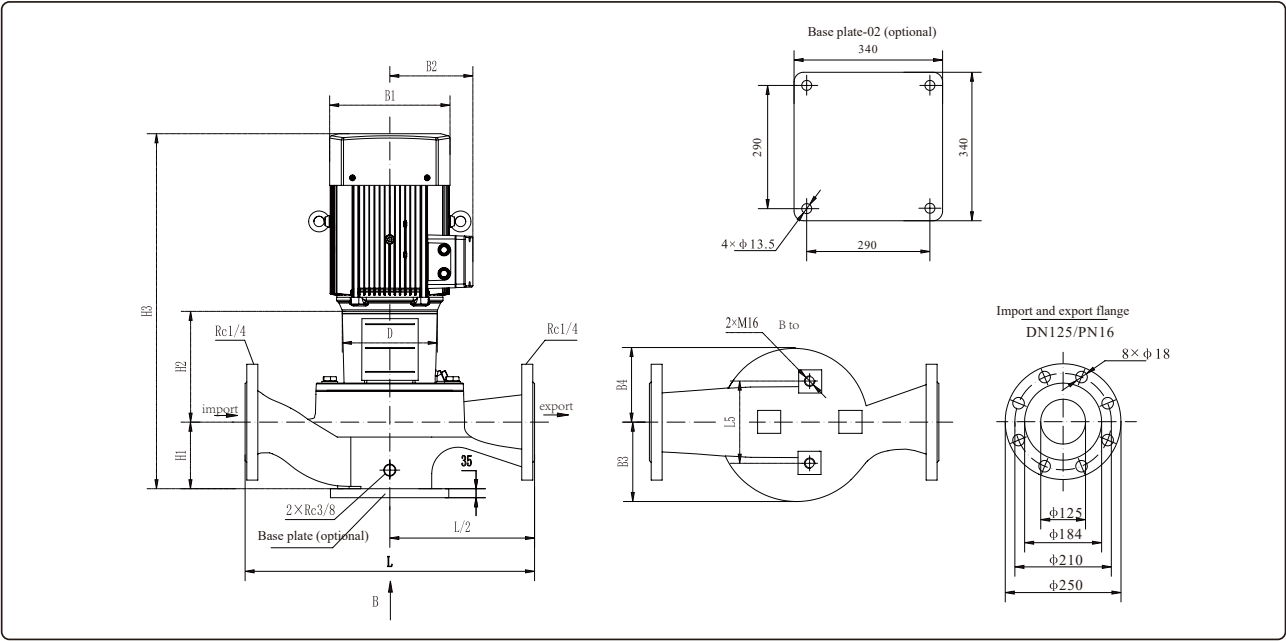
FR100-*/2 Operational Performance Curve



Operational performance data

Model	Motor power		Q (m³/h)	H (m)	40	60	80	100	120	140	160	180	200
	(kW)	(HP)											
FR125-11/4	5.5	7.5	12.8		12.7	12.4	11.8	11	9.9	8			
FR125-14/4	7.5	10	16.1		15.9	15.5	14.9	14	12.8	11.2			
FR125-18/4	11	15	21.4		21.3	21	20.6	19.9	19.1	18	16.4	14	
FR125-22/4	15	20	26.6		26.5	26.2	25.7	24.9	23.7	22	19.8	16.6	
FR125-28/4	18.5	25	30.8		30.8	30.7	30.5	30.1	29.3	28	25.8	22.1	
FR125-32/4	22	30	34.5		34.6	34.5	34.4	34	33.3	32	30.2	27.2	
FR125-40/4	30	40	43.8		43.6	43.3	42.9	42.2	41.3	40	38	35.3	
FR125-48/4	37	50	51.4		51.3	51	50.5	49.9	49.1	48	46.4	44.1	

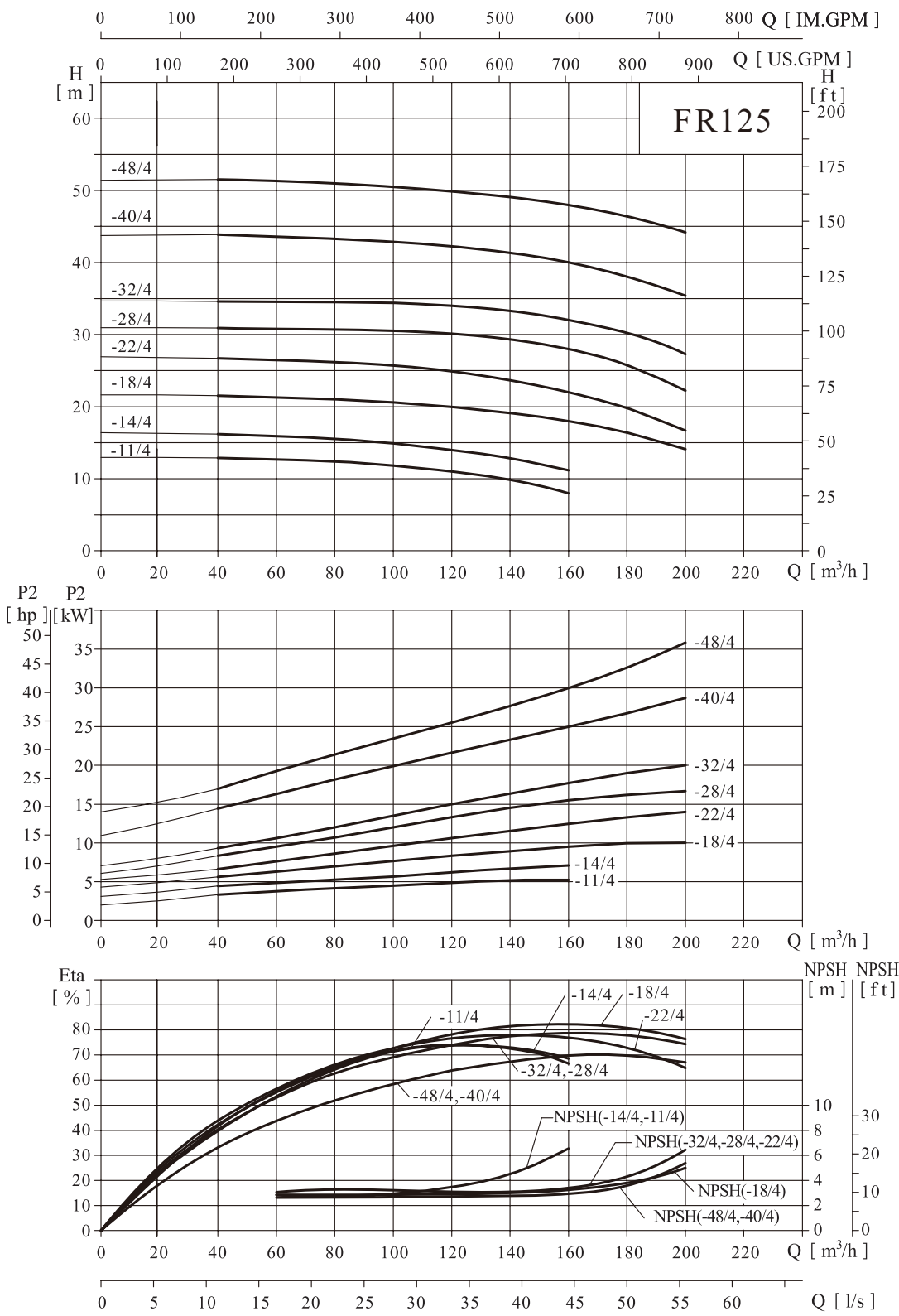
Installation dimensions and product weight



Model	Dimensions [mm]										Weight kg
	D	B1	B2	B3	B4	B5	H1	H2	H3	L	
FR125-11/4	200	260	208	215	175	230	215	256	887	620	142
FR125-14/4	200	260	208	215	175	230	215	256	887	620	152
FR125-18/4	350	330	255	210	176	230	215	297	1054	800	258
FR125-22/4	350	330	255	235	207	230	215	297	1087	800	310
FR125-28/4	350	330	280	235	207	230	215	316	1106	800	350
FR125-32/4	350	330	280	235	207	230	215	316	1136	800	376
FR125-40/4	400	400	305	271	247	230	215	323	1238	800	462
FR125-48/4	450	450	335	271	247	230	215	323	1243	800	518

The data in the table is standard motor data, if you need to buy single-phase motor, inverter motor, explosion-proof motor and other special motors, please contact FAGGIOLATI.

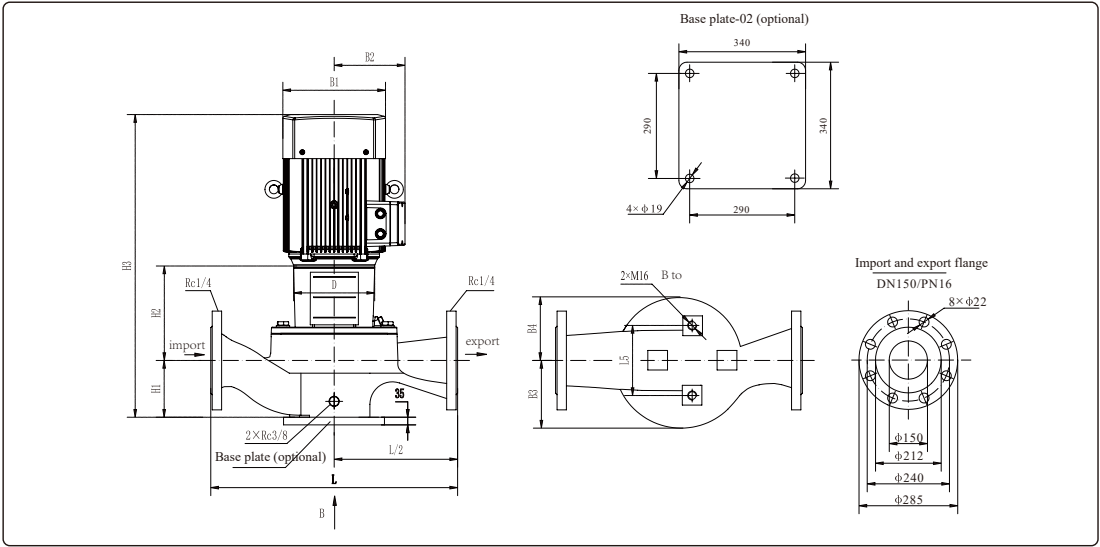
FR125-**/4 Operational Performance Curve



Operational performance data

Model	Motor power		Q (m³/h)	50	80	110	140	170	200	220	240
	(kW)	(HP)									
FR150-12.5/4	11	15	H (m)	14.6	14.5	14.4	14.2	13.7	12.5	11.1	9.2
FR150-13/4	11	15		15	15	14.9	14.7	14.2	13	11.6	9.8
FR150-17/4	15	20		18.8	18.8	18.7	18.5	18	17	16.1	15
FR150-18.5/4	15	20		20.4	20.3	20.2	20	19.5	18.5	17.6	16.6
FR150-21/4	18.5	25		23.3	23.1	22.9	22.6	22	21	19.8	17.9
FR150-25/4	22	30		28	28	27.8	27.3	26.5	25	23.5	21.3
FR150-26/4	22	30		29.1	29	28.8	28.3	27.5	26	24.5	22.4
FR150-33/4	30	40		35.5	35.4	35.2	34.8	34.2	33	31.5	29.6
FR150-40/4	37	50		43.1	43	42.8	42.4	41.6	40	38.4	36.2
FR150-43/4	37	50		46.2	46.1	45.9	45.5	44.6	43	41.4	39.3
FR150-50/4	45	60		52.4	52.2	52	51.7	51.1	50	48.7	46.7

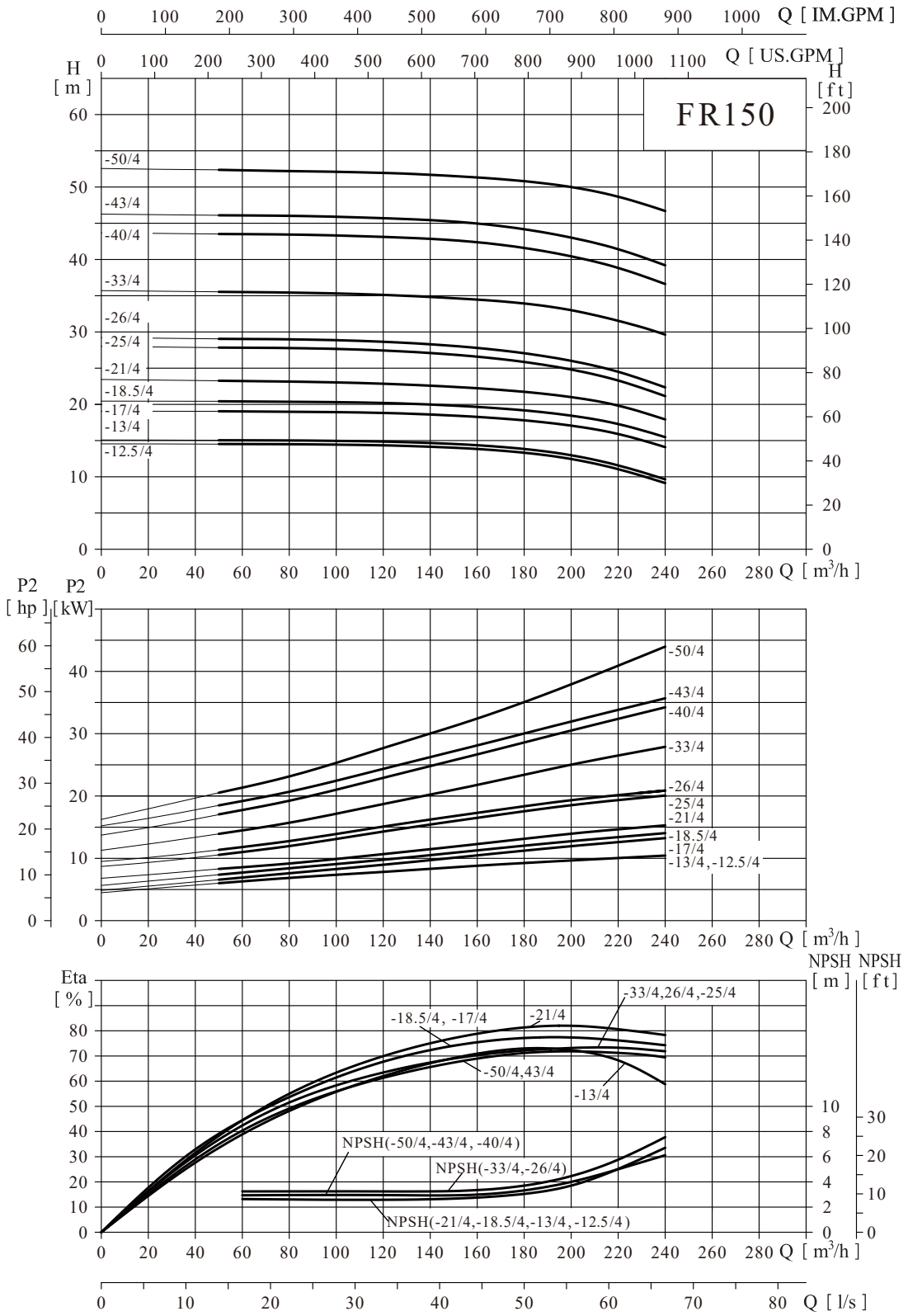
Installation dimensions and product weight



Model	Dimensions [mm]										Weight kg
	D	B1	B2	B3	B4	B5	H1	H2	H3	L	
FR150-12.5/4	350	315	255	217	180	230	215	293	1050	800	260
FR150-13/4	350	315	250	217	180	230	215	293	1050	800	260
FR150-17/4	350	315	255	217	180	230	215	293	1083	800	276
FR150-18.5/4	350	315	250	217	180	230	215	293	1083	800	277
FR150-21/4	350	360	275	217	180	230	215	293	1083	800	314
FR150-25/4	350	360	280	238	208	230	215	293	1113	800	372
FR150-26/4	350	360	275	238	208	230	215	293	1113	800	372
FR150-33/4	400	400	305	238	208	230	215	293	1208	800	430
FR150-40/4	450	450	335	267	248	230	230	323	1258	900	532
FR150-43/4	450	450	325	267	248	230	230	323	1258	900	533
FR150-50/4	450	450	325	267	248	230	230	323	1283	900	556

The data in the table is standard motor data, if you need to buy single-phase motor, inverter motor, explosion-proof motor and other special motors, please contact FAGGIOLATI.

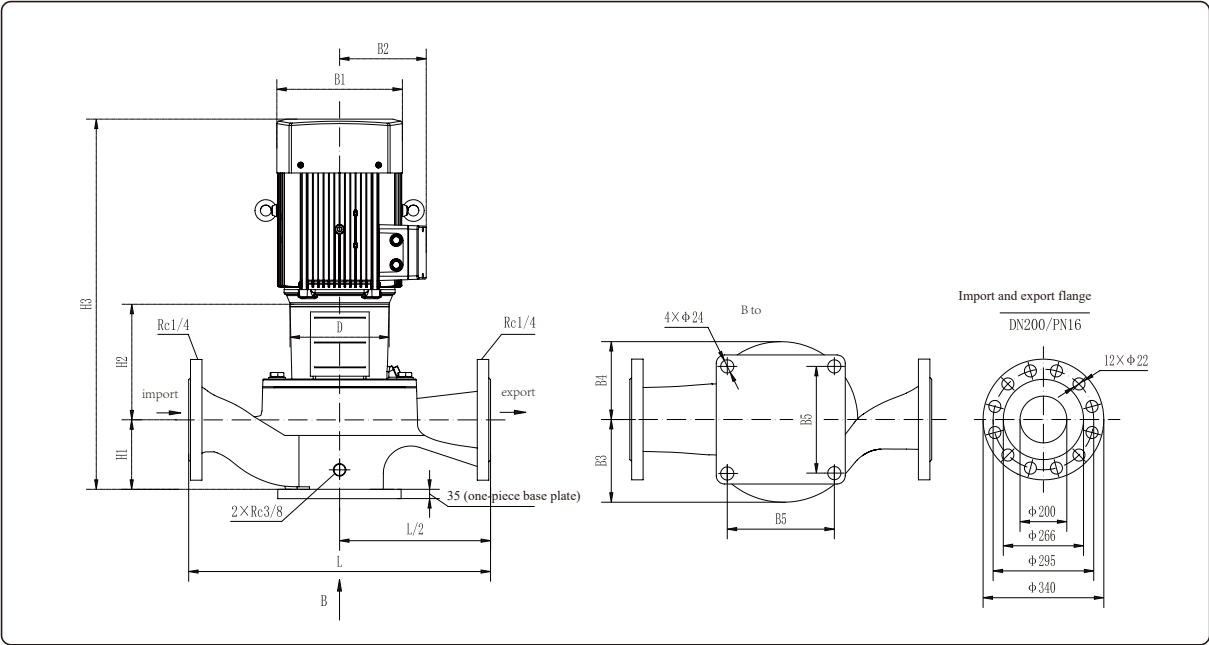
FR150-**/4 Operational Performance Curve



Operational performance data

Model	Motor power		Q (m³/h)	H (m)	90	120	150	180	210	240	270	300	330	360
	(kW)	(HP)												
FR200-15/4	18.5	25			17.9	17.7	17.5	17.2	16.8	16.4	15.8	15	14.1	12.8
FR200-18/4	22	30			20.9	20.7	20.5	20.2	19.8	19.4	18.8	18	17.1	15.7
FR200-24/4	30	40			26	26	25.8	25.7	25.4	25.1	24.6	24	23.1	21.8
FR200-30/4	37	50			33.3	33.2	33	32.6	32.2	31.6	30.9	30	29	27.6
FR200-35/4	45	60			38.2	38.3	38.1	37.8	37.3	36.7	35.9	35	33.8	32.1
FR200-44/4	55	75			46.2	46.1	45.9	45.6	45.4	45	44.6	44	43.1	41.8
FR200-53/4	75	100			55.6	55.7	55.7	55.5	55.3	54.8	54	53	51.6	49.9

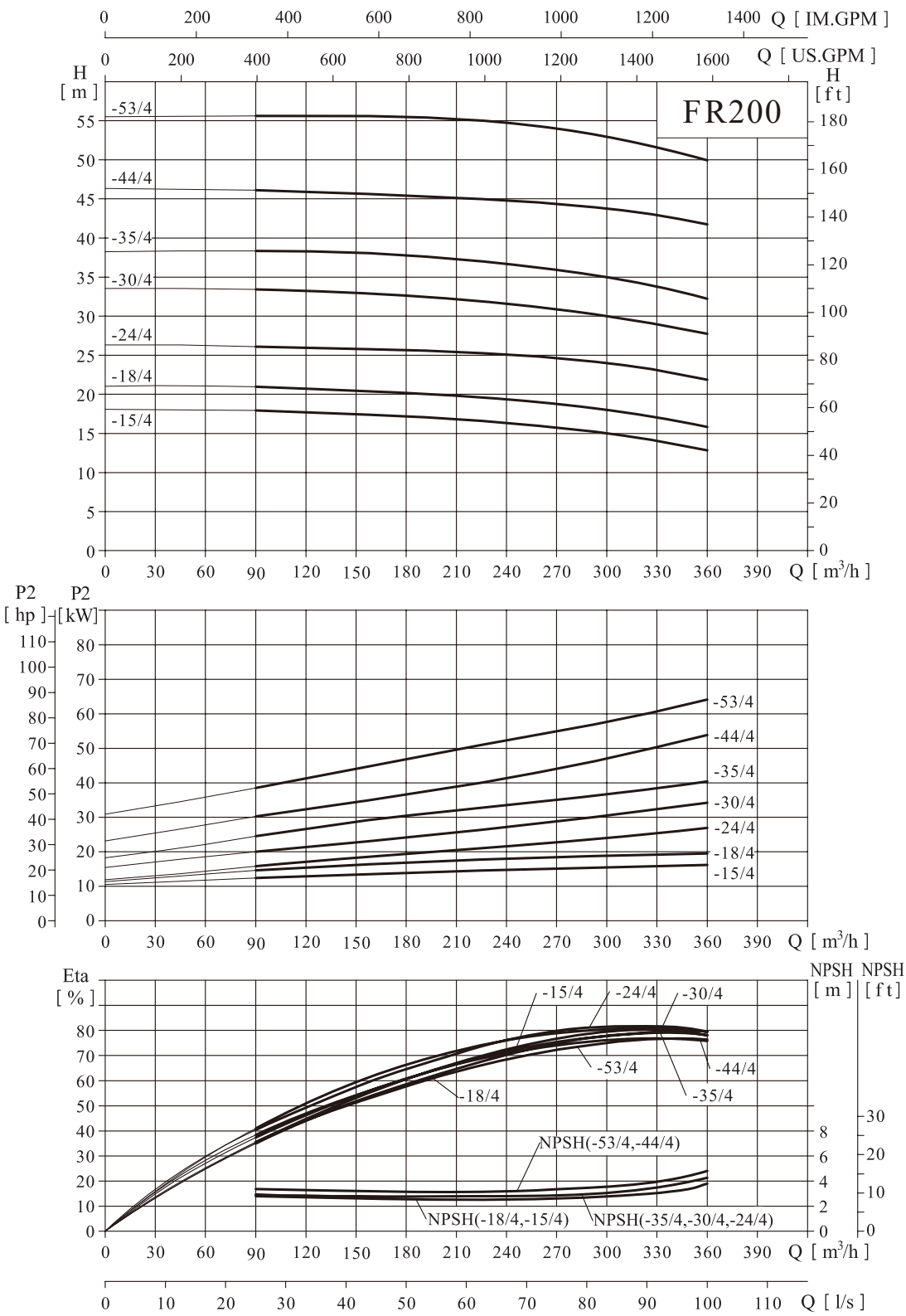
Installation dimensions and product weight



Model	Dimensions [mm]										Weight kg
	D	B1	B2	B3	B4	B5	H1	H2	H3	L	
FR200-15/4	350	360	280	277	218	360	270	343	1188	1000	420
FR200-18/4	350	360	280	277	218	360	270	343	1218	1000	440
FR200-24/4	400	400	305	302	251	360	270	343	1313	1100	538
FR200-30/4	450	450	335	302	251	360	270	373	1348	1100	590
FR200-35/4	450	450	335	302	251	360	270	373	1373	1100	630
FR200-44/4	550	490	370	314	268	360	270	388	1423	1100	768
FR200-53/4	550	550	410	314	268	360	270	388	1486	1100	902

The data in the table is standard motor data, if you need to buy single-phase motor, inverter motor, explosion-proof motor and other special motors, please contact FAGGIOLATI.

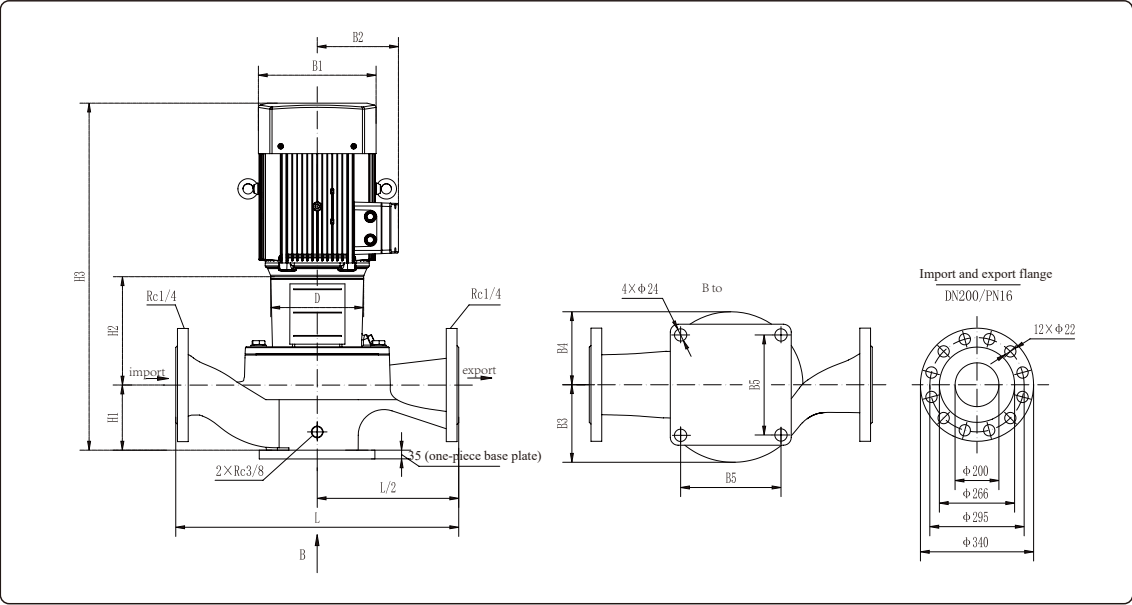
FR200-*/4 Operational Performance Curve



Operational performance data

Model	Motor power		Q (m³/h)	H (m)	160	200	240	280	320	360	400	440	480
	(kW)	(HP)											
FR200-12.5/4	22	30	17.2		16.9	16.5	15.9	15.1	14	12.5	10.7	8	
FR200-20/4	30	40	24.6		24.4	24	23.6	22.8	21.7	20	17.5	14.2	
FR200-23/4	37	50	28.1		27.8	27.4	26.8	25.9	24.8	23	20.9	18.2	
FR200-27/4	45	60	32.1		31.7	31.2	30.5	29.6	28.4	27	24.9	22.5	
FR200-29/4	45	60	34.1		33.8	33.2	32.5	31.6	30.4	29	27	24.2	
FR200-32/4	55	75	37.5		37.1	36.5	35.7	34.7	33.3	32	29.9	27.7	
FR200-38/4	55	75	42.1		42.1	41.9	41.5	40.8	39.9	38	36.7	34.3	
FR200-43/4	75	100	47		46.7	46.4	45.9	45.3	44.4	43	41.1	38.6	
FR200-47/4	75	100	51.3		51.2	51	50.7	50.1	49.1	47	45.1	42.1	
FR200-50/4	90	120	52.9		52.8	52.6	52.2	51.7	51	50	48.3	45.5	

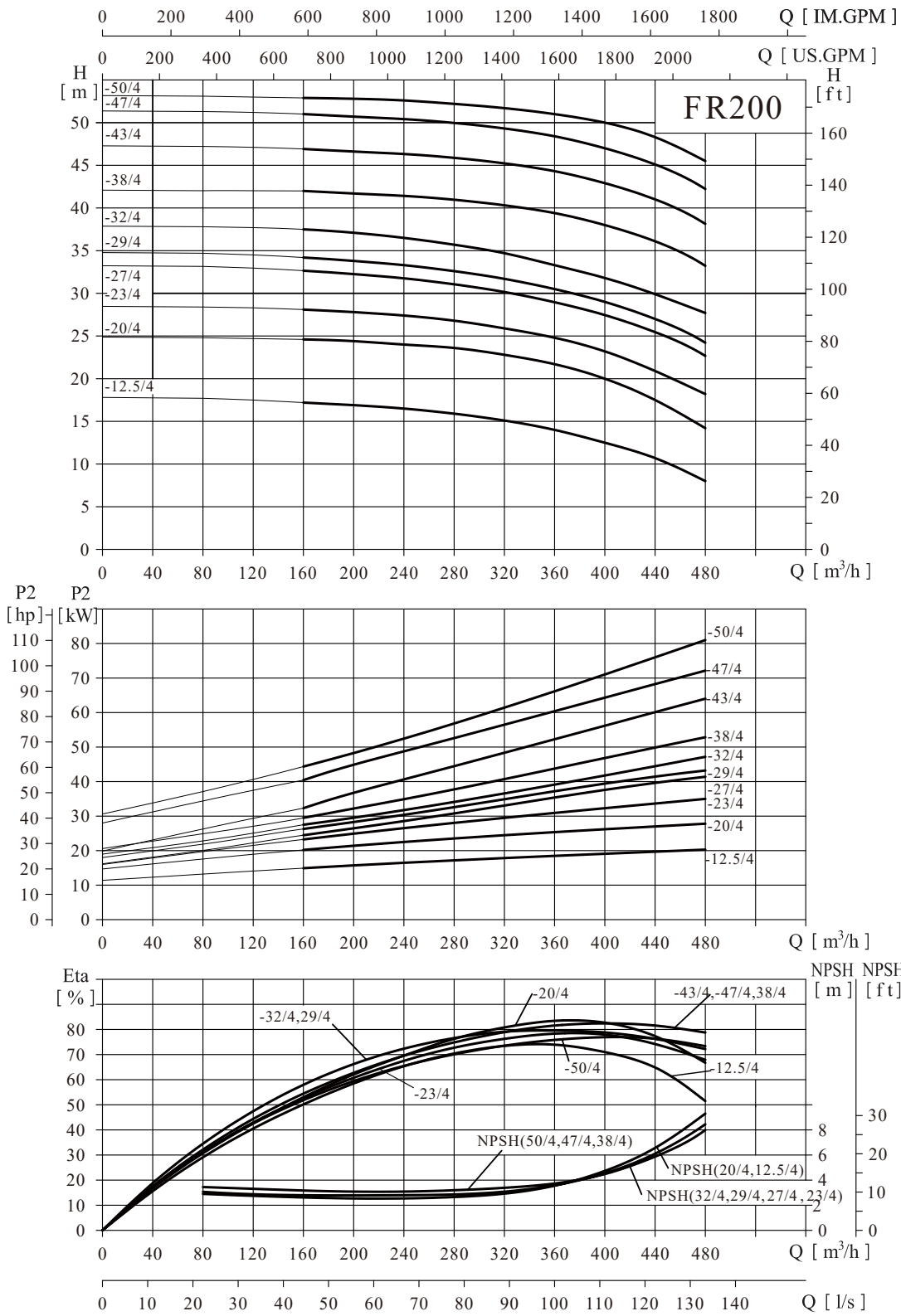
Installation dimensions and product weight



Model	Dimensions [mm]										Weight kg
	D	B1	B2	B3	B4	B5	H1	H2	H3	L	
FR200-12.5/4	350	360	280	278	219	360	270	415	1285	1000	432
FR200-20/4	400	400	305	278	219	360	270	415	1335	1000	492
FR200-23/4	450	450	335	303	252	360	270	445	1395	1100	602
FR200-27/4	450	450	335	303	252	360	270	445	1420	1100	630
FR200-29/4	450	450	335	303	252	360	270	445	1420	1100	638
FR200-32/4	550	490	365	303	252	360	270	445	1505	1100	710
FR200-38/4	550	490	365	315	269	360	270	457	1522	1100	735
FR200-43/4	550	550	410	315	269	360	270	457	1587	1100	880
FR200-47/4	550	550	400	315	269	360	270	457	1587	1100	883
FR200-50/4	550	550	400	315	269	360	270	457	1637	1100	975

The data in the table is standard motor data, if you need to buy single-phase motor, inverter motor, explosion-proof motor and other special motors, please contact FAGGIOLATI.

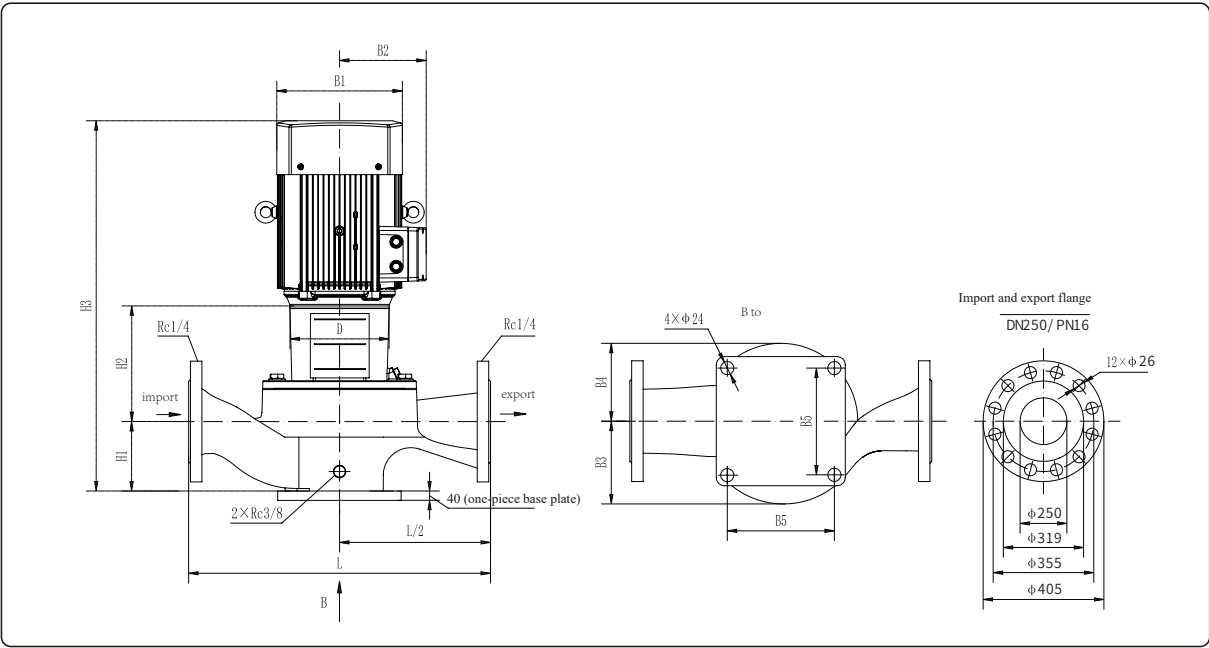
FR200-**/4 Operational Performance Curve



Operational performance data

Model	Motor power		Q (m³/h)	H (m)	150	200	250	300	350	400	450	500	550	600
	(kW)	(HP)												
FR250-15/4	30	40	18.7		18.4	18	17.6	17.1	16.4	15.8	15	14.1	12.6	
FR250-18/4	37	50	21.1		20.9	20.5	20.1	19.7	19.2	18.7	18	17.1	15.8	
FR250-21/4	45	60	24		23.8	23.5	23.1	22.8	22.3	21.8	21	20	18.7	
FR250-27/4	55	75	30.2		30	29.6	29.2	28.8	28.3	27.7	27	26.1	24.8	
FR250-36/4	75	100	39		38.8	38.5	38.2	37.8	37.3	36.8	36	35	33.3	
FR250-44/4	90	120	47.3		47.1	46.8	46.4	45.9	45.4	44.8	44	43	41.5	
FR250-53/4	110	150	56.1		55.9	55.6	55.3	54.8	54.3	53.7	53	52.1	50.8	

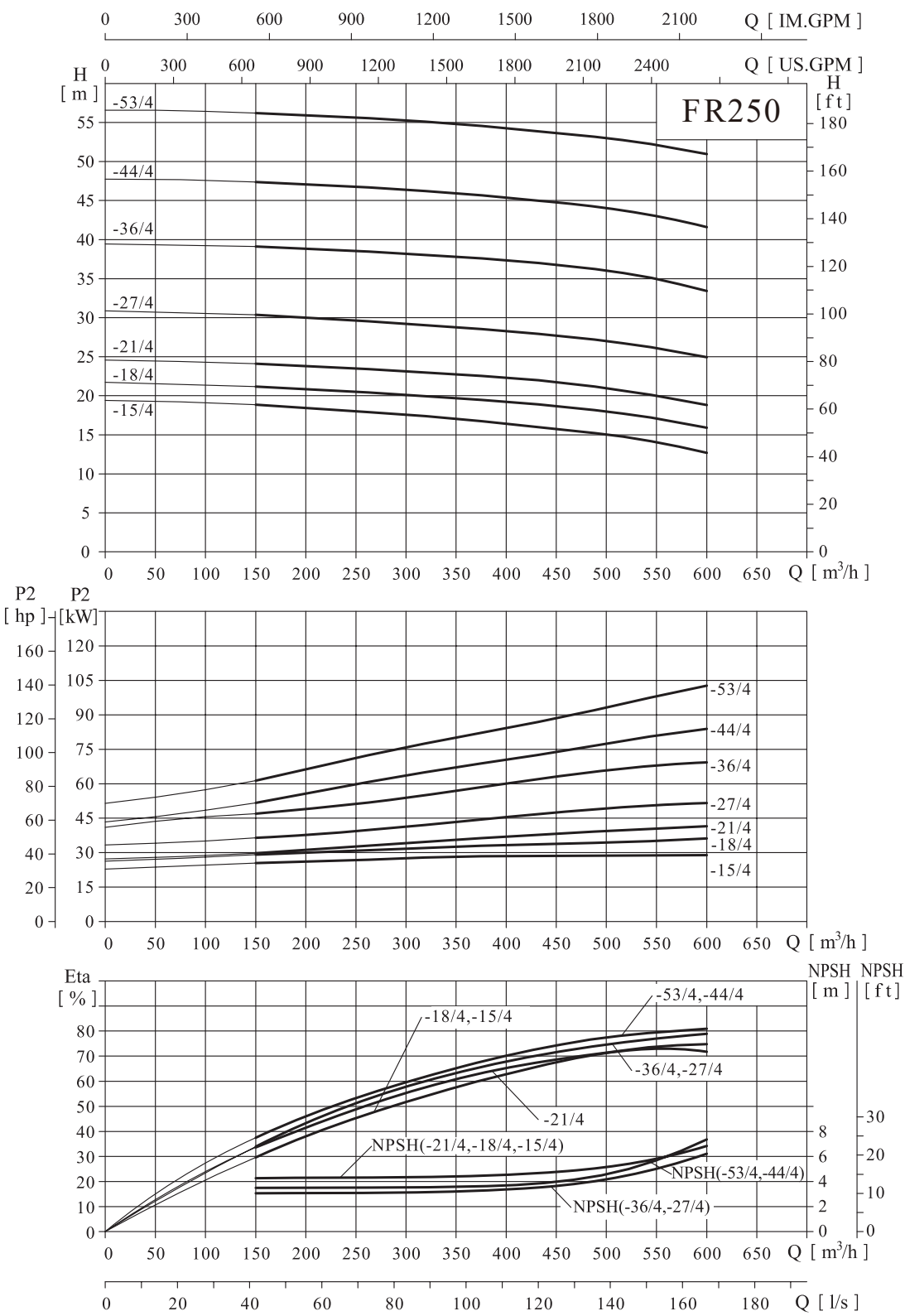
Installation dimensions and product weight



Model	Dimensions [mm]										Weight kg
	D	B1	B2	B3	B4	B5	H1	H2	H3	L	
FR250-15/4	400	400	305	315	242	390	300	393	1393	1100	564
FR250-18/4	450	450	335	315	242	390	300	423	1428	1100	636
FR250-21/4	450	450	335	315	242	390	300	423	1453	1100	660
FR250-27/4	550	490	365	328	263	440	300	438	1503	1100	802
FR250-36/4	550	550	370	328	263	440	300	438	1568	1100	949
FR250-44/4	550	550	410	346	291	440	305	461	1646	1200	1065
FR250-53/4	660	625	530	346	291	440	305	461	1826	1200	1292

The data in the table is standard motor data, if you need to buy single-phase motor, inverter motor, explosion-proof motor and other special motors, please contact FAGGIOLATI.

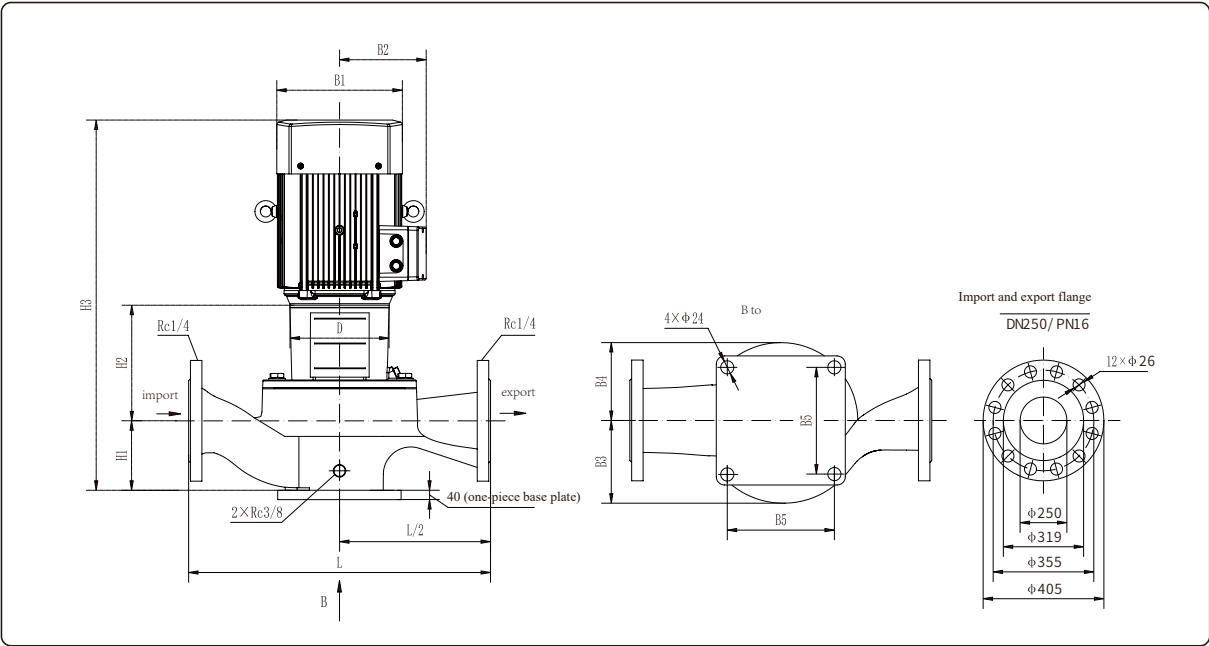
FR250-*/4 Operational Performance Curve



Operational performance data

Model	Motor power		Q (m³/h)	H (m)	240	300	360	420	480	540	600	630	660	720	750
	(kW)	(HP)													
FR250-12.5/4	30	40	18.3		17.9	17.2	16.4	15.5	14.5	13.2	12.5	11.8	9.9	8.7	
FR250-14/4	37	50	19.9		19.5	18.9	18.2	17.5	16.6	15.6	14	13.4	12.6	11.5	
FR250-17/4	45	60	21.7		21.3	20.8	20.1	19.4	18.6	17.6	17	16.3	14.4	13.3	
FR250-20/4	55	75	24.4		24.1	23.7	23.1	22.4	21.5	20.5	20	19.3	17.6	16.4	
FR250-30/4	75	100	34.5		34.3	33.7	33.2	32.3	31.6	30.6	30	29.3	27.5	26.3	
FR250-32/4	90	120	36.6		36.3	35.7	35.1	34.3	33.5	32.6	32	31.3	29.5	28.3	
FR250-38/4	90	120	44.4		43.2	42.8	41.7	41	40.1	38.8	38	37	35.5	34.2	
FR250-45/4	110	150	53.3		51.3	50.6	50	49.2	48.1	46.6	45	44.2	43.5	41	
FR250-50/4	132	175	55.5		55.2	54.6	53.9	53.2	52.3	50.9	50	49	46.7	45.3	

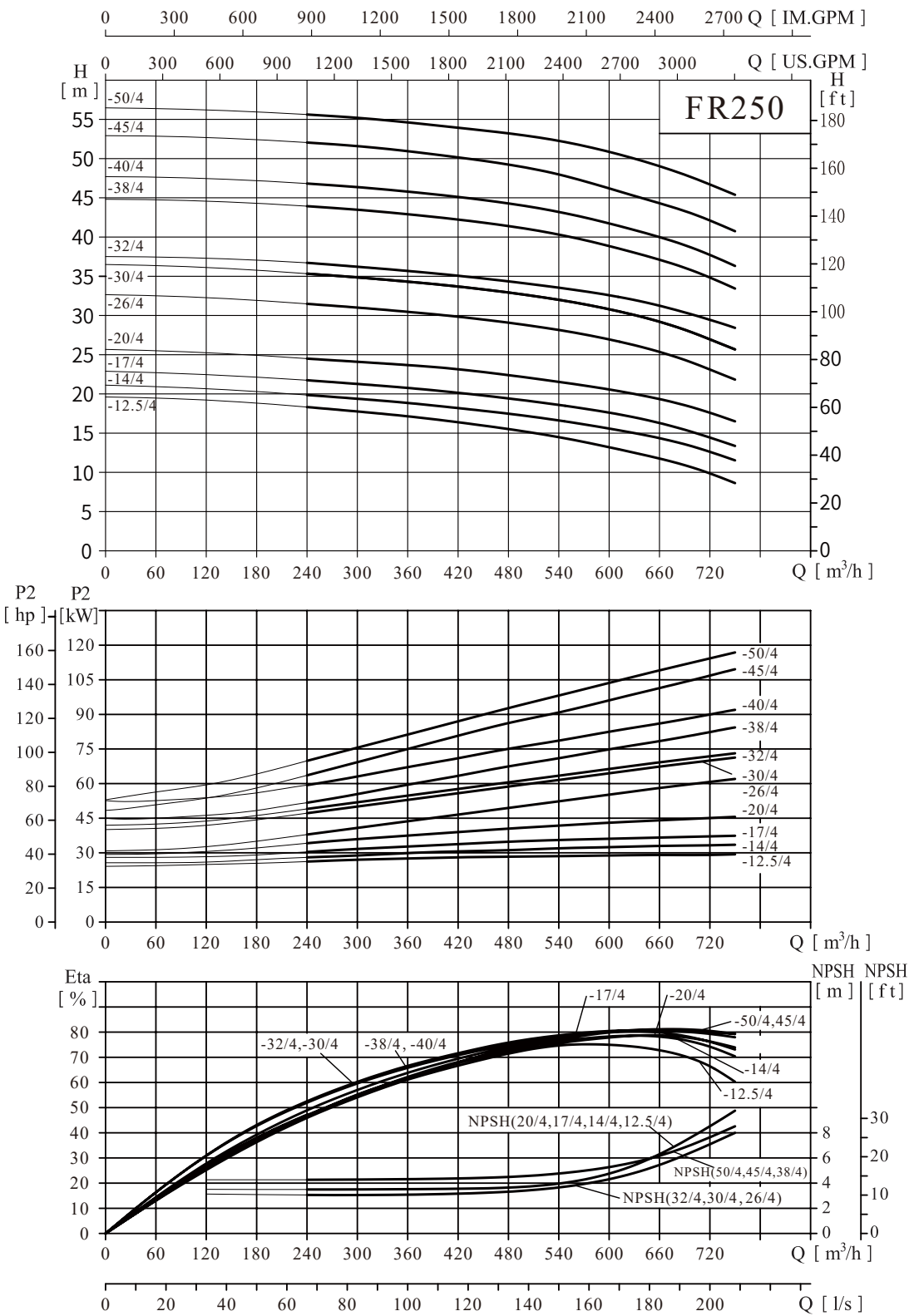
Installation dimensions and product weight



Model	Dimensions [mm]										Weight kg
	D	B1	B2	B3	B4	B5	H1	H2	H3	L	
FR250-12.5/4	400	400	305	315	242	390	300	393	1393	1100	563
FR250-14/4	450	450	335	315	242	390	300	423	1428	1100	635
FR250-17/4	450	450	335	315	242	390	300	423	1453	1100	659
FR250-20/4	550	490	370	315	242	390	300	423	1503	1100	759
FR250-30/4	550	550	410	328	263	440	300	438	1568	1100	948
FR250-32/4	550	550	410	328	263	440	300	438	1618	1100	1017
FR250-38/4	550	550	410	346	291	440	305	461	1646	1200	1063
FR250-45/4	660	625	530	346	291	440	305	461	1826	1200	1293
FR250-50/4	660	625	530	346	291	440	305	461	1946	1200	1400

The data in the table is standard motor data, if you need to buy single-phase motor, inverter motor, explosion-proof motor and other special motors, please contact FAGGIOLATI.

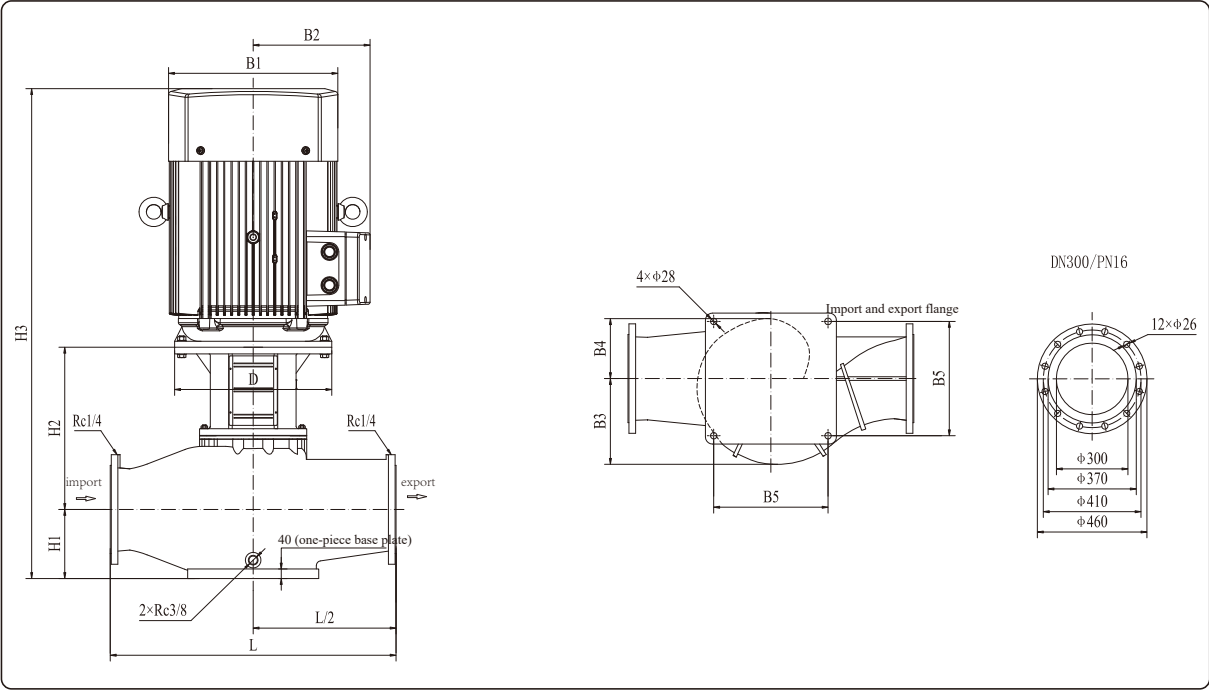
FR250-**/4 Operational Performance Curve



Operational performance data

Model	Motor power		Q (m³/h)	270	360	450	630	750	900	1080	1200
	(kW)	(HP)									
FR300-15/4	55	75	H (m)	22.7	22.3	21.6	19.5	17.8	15	11.6	8.5
FR300-20/4	75	100		26.4	26	25.5	24.1	22.4	20	17.1	14.5
FR300-25/4	90	120		30.8	30.4	29.8	28.2	27.1	25	22.5	20
FR300-30/4	110	150		34.5	34	33.5	32.4	31.6	30	27.5	25
FR300-35/4	132	175		38.6	38.1	37.8	36.9	36	35	32.6	29.6
FR300-44/4	160	215		49.5	49.2	48.8	47.6	46.3	44	40.5	37.5
FR300-55/4	200	270		58.2	57.9	57.6	56.7	56.1	55	52.5	49.2

Installation dimensions and product weight



Model	Dimensions [mm]										Weight kg
	D	B1	B2	B3	B4	B5	H1	H2	H3	L	
FR300-15/4	550	490	365	344	249	440	290	649	1720	1200	907
FR300-20/4	550	550	400	344	249	440	290	649	1770	1200	1075
FR300-25/4	550	550	400	379	279	480	290	659	1850	1200	1230
FR300-30/4	660	625	550	379	279	480	290	699	2000	1200	1570
FR300-35/4	660	625	550	379	279	480	290	699	2150	1200	1650
FR300-44/4	660	625	550	379	294	480	290	702	2150	1200	1790
FR300-55/4	660	625	550	379	294	480	290	702	2150	1200	1905

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FR300-*/4 Operational Performance Curve

