



**Stainless Steel Vertical Multistage
Centrifugal Pump**

AS / AC Series

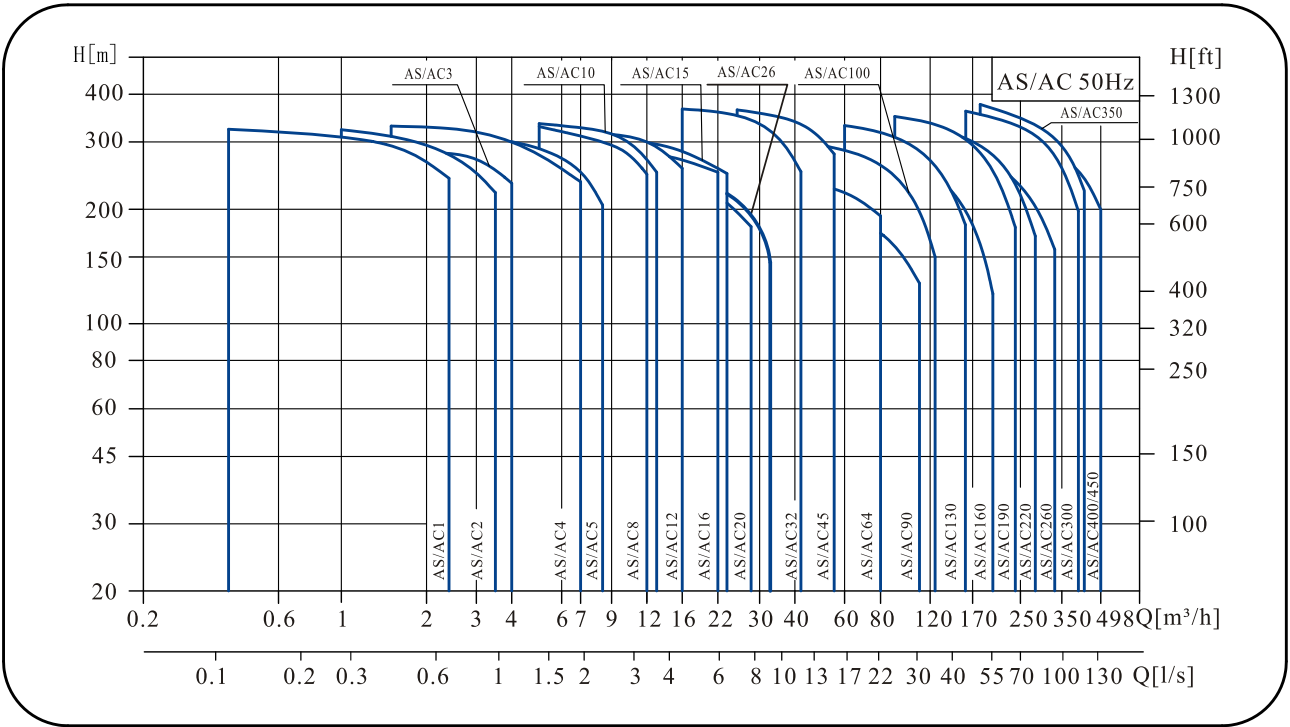
50Hz



Contents

* AS/AC1	9
* AS/AC2	11
* AS/AC3	13
* AS/AC4	15
* AS/AC5	17
* AS/AC8	19
* AS/AC10	21
* AS/AC12	23
* AS/AC15	25
* AS/AC16	27
* AS/AC20	29
* AS/AC26	31
* AS/AC32	33
* AS/AC45	35
* AS/AC64	37
* AS/AC90	39
* AS/AC100	41
* AS/AC130	43
* AS/AC160	45
* AS/AC190	47
* AS/AC220	49
* AS/AC260	51
* AS/AC300	53
* AS/AC350	55
* AS/AC400	57
* AS/AC450	59

Performance Range

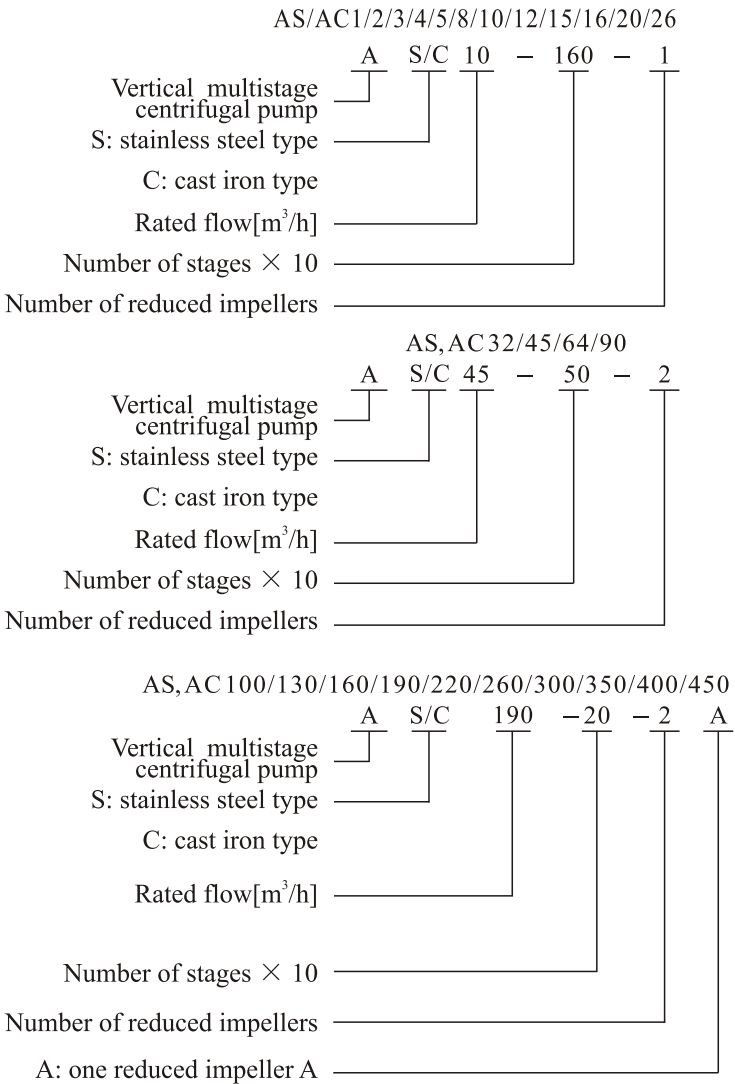


Specification

Key parameter	AS/AC1	AS/AC2	AS/AC3	AS/AC4	AS/AC5	AS/AC8	AS/AC10	AS/AC12	AS/AC15	AS/AC16	AS/AC20	AS/AC26
Rated flow [m³/h]	1	2	3	4	5	8	10	12	15	16	20	26
Rated flow [l/s]	0.28	0.56	0.83	1.1	1.39	2.2	2.78	3.3	4.17	4.4	5.6	7.2
Flow range [m³/h]	0.4~2.4	1~3.5	1.2~4	1.5~6	2.5~8.5	5~12	5~13	7~16	8~23	8~22	10~28	13~33
Flow range [l/s]	0.11~0.66	0.28~0.97	0.33~1.1	0.42~1.63	0.69~2.36	1.39~3.3	1.39~3.61	1.9~4.4	2.22~6.39	2.2~6.1	2.8~7.8	3.6~9.2
Max.pressure [bar]	36	32	29	33	33	33	34	32	32	29	25	23
Power [kW]	0.37~3	0.37~5.5	0.37~5.5	0.55~7.5	0.37~7.5	0.75~15	0.75~15	1.5~18.5	1.1~22	2.2~22	1.1~22	2.2~22
Temp.range [°C]	-15~+120											
Max.eff. [%]	48	52	57	57	66	62	68	63	68	66	68	71.5
AS Pipe connection												
DIN Flange	DN25	DN25	DN25	DN32	DN32	DN40	DN40	DN50	DN50	DN50	DN50	DN50
Pipe thread	R1 1 1/4"	R1 1 1/4"	R1 1 1/4"	R1 1 1/4"	R1 1 1/4"	R1 2"	R1 2"	R1 2"	R1 2"	R1 2"	R1 2"	R1 2"
PJE	DN32	DN32	DN32	DN32	DN32	DN50	DN50	DN50	DN50	DN50	DN50	DN50
AC Pipe connection												
DIN Flange	DN25	DN25	DN25	DN32	DN32	DN40	DN40	DN50	DN50	DN50	DN50	DN50
Oval flange	Rp 1"	Rp 1"	Rp 1"	Rp 1 1/4"	Rp 1 1/4"	Rp 1 1/2"	Rp 1 1/2"	Rp 1 1/2"	Rp 1 1/2"	Rp 1 1/2"	Rp 1 1/2"	Rp 1 1/2"

Key parameter	AS/AC32	AS/AC45	AS/AC64	AS/AC90	AS/AC100	AS/AC130	AS/AC160	AS/AC190	AS/AC220	AS/AC260	AS/AC300	AS/AC350	AS/AC400	AS/AC450
Rated flow [m³/h]	32	45	64	90	100	130	160	190	220	260	300	350	400	450
Rated flow [l/s]	8.9	12.5	17.8	25	27.78	36.11	44.44	52.78	61.11	72.22	83.4	97.3	111.2	125.1
Flow range [m³/h]	16~42	25~55	30~80	50~110	50~125	60~160	80~200	90~240	105~282	125~330	160~400	180~420	216~498	216~498
Flow range [l/s]	4.4~11	6.9~15.3	8~22	14~30	14~34.7	16.7~44.4	22.2~55.6	25~66.7	29.2~78.3	34.7~91.7	44.5~111.2	50~116.8	60~138.4	60~138.4
Max.pressure [bar]	37	37	30	27	30	33	27	34	34	27	28	24	34	34
Power [kW]	2.2~45	4~55	4~75	7.5~75	5.5~75	11~110	11~110	18.5~200	22~200	30~200	30~220	37~220	75~355	75~355
Temp.range [°C]	-15~+120													
Max.eff. [%]	75	77	78	79	81	82	82	82	83	84	83	85	86	86
Pipe connection														
DIN Flange	DN65	DN80	DN100	DN100	DN100	DN150	DN150	DN200	DN200	DN200	DN250	DN250	DN250	DN250

Definition of Model



Typical Application

- Water Supply**
- Water plant filtration & transmission
 - Zoned water supply for water plants
 - Main pipeline network pressurization
 - High-rise buildings
 - Pressurization for hotels & similar buildings
 - Industrial water supply pressurization
- Industrial Pressurization**
- Process water systems
 - Cleaning systems
 - High-pressure washing systems
 - Fire fighting systems
 - Car washing equipment
- Industrial Liquid Transfer**
- Cooling & air conditioning systems
 - Boiler feed water
 - Condenser systems & cooling towers
 - Machine tool cooling & lubrication support
- Transfer**
- Oils & alcohols
 - Acids & alkalis
 - Glycol & coolants
- Water Treatment**
- Ultrafiltration (UF) systems
 - Reverse osmosis (RO) systems
 - Distillation systems
 - Separators
 - Swimming pools
- Irrigation**
- Regional irrigation
 - Sprinkler irrigation
 - Drip irrigation
 - Greenhouses

Connection types

- Flange
- Thread
- PJE

Pump materials

- Cast iron
- Stainless steel (AISI 304,AISI 316)
- Duplex stainless steel(2205)

Motor

- Squirrel-cage totally enclosed fan-cooled (TEFC) IEC standard motor, suitable for continuous duty operation.
- Degree of protection; IP55
- Insulation class: F
- Standard voltage: $3 \times 220-240/380-415V$
 $1 \times 220-240V$
- Custom voltages available on request.
- Single phase motors from 0.37kW to 2.2kW are available on request.

Working condition

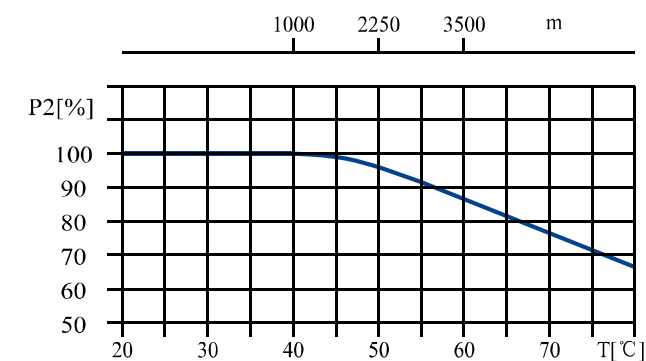
- Thin, clean, non-flammable and non-explosive liquid that does not contain solid particles or fibers.
- Liquid Temperature: Standard: $-15^{\circ}C \sim +70^{\circ}C$
Hot Water: $-15^{\circ}C \sim +120^{\circ}C$
- Ambient Temperature: Max. $40^{\circ}C$
- Altitude: Max. 1000m

Performance curve

- All measured values of curves are based on the motor at a constant speed of 2900rpm or 2950rpm.
- Curve tolerance meets ISO9906.
- Tests conducted with $20^{\circ}C$ deaerated water with a kinematic viscosity of $1 \text{ mm}^2/\text{s}$.
- The pump should be operated within the performance range indicated by the thick lines, to prevent motor overheating from insufficient flow or overload from excessive flow.

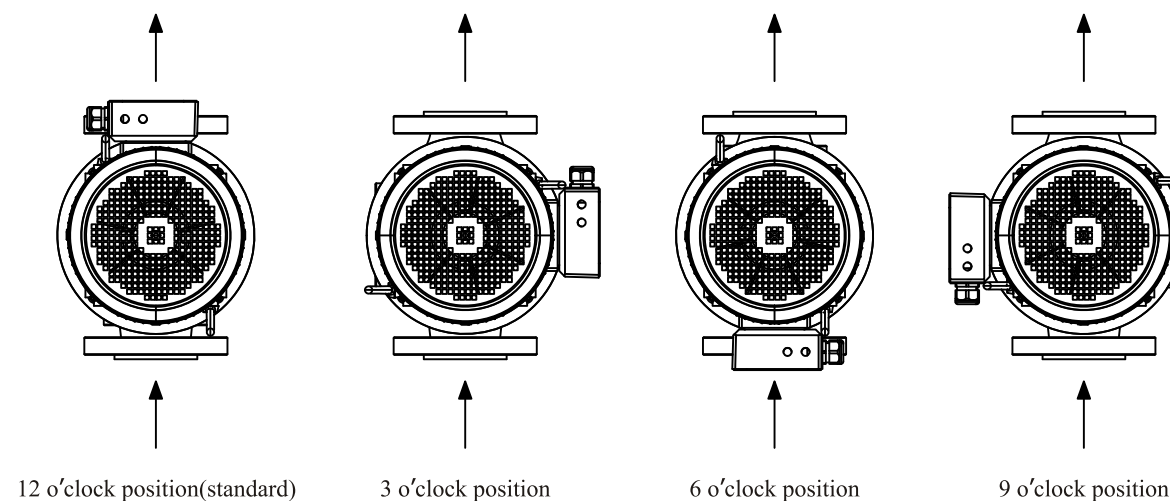
Altitude and Ambient temperature

- When the pump operates under conditions where the ambient temperature $>40^{\circ}C$ or the altitude $>1000\text{m}$, the motor output power P2 will decrease, so a motor with higher power rating is required.



Position of Terminal box

As standard, the terminal box is installed on the discharge side of the pump.



Min. Inlet Pressure NPSH

Cavitation may occur if the pump operates under any of the following conditions:

- The water tank or reservoir is positioned lower than the pump inlet.
- The liquid temperature is excessively high.
- The actual operating flow rate is significantly higher than the rated flow rate.
- The pressure inside the pump is lower than the pumped liquid's vapor pressure.

Make sure there is a minimum pressure at the pump suction side to avoid cavitation. The maximum suction H[m] can be calculated by the following formula:

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

P_b = Atmospheric pressure
(Atmospheric pressure can be set to 1 bar)
For closed systems, P_b is the system pressure.

NPSH = net positive suction head [m]

(Can read from the Max. flow range of the curve)

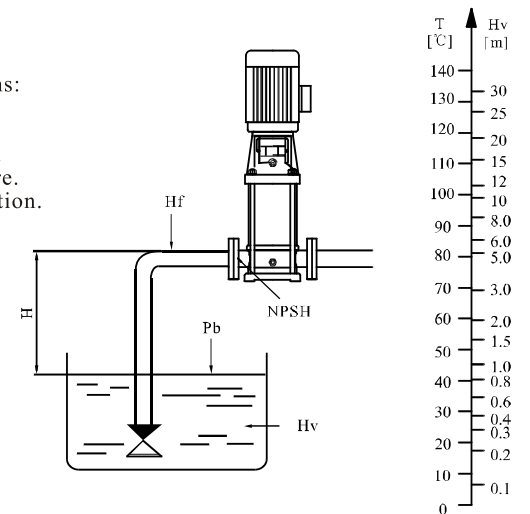
H_f = Inlet pipeline head loss [m]

H_v = vapor pressure [m]

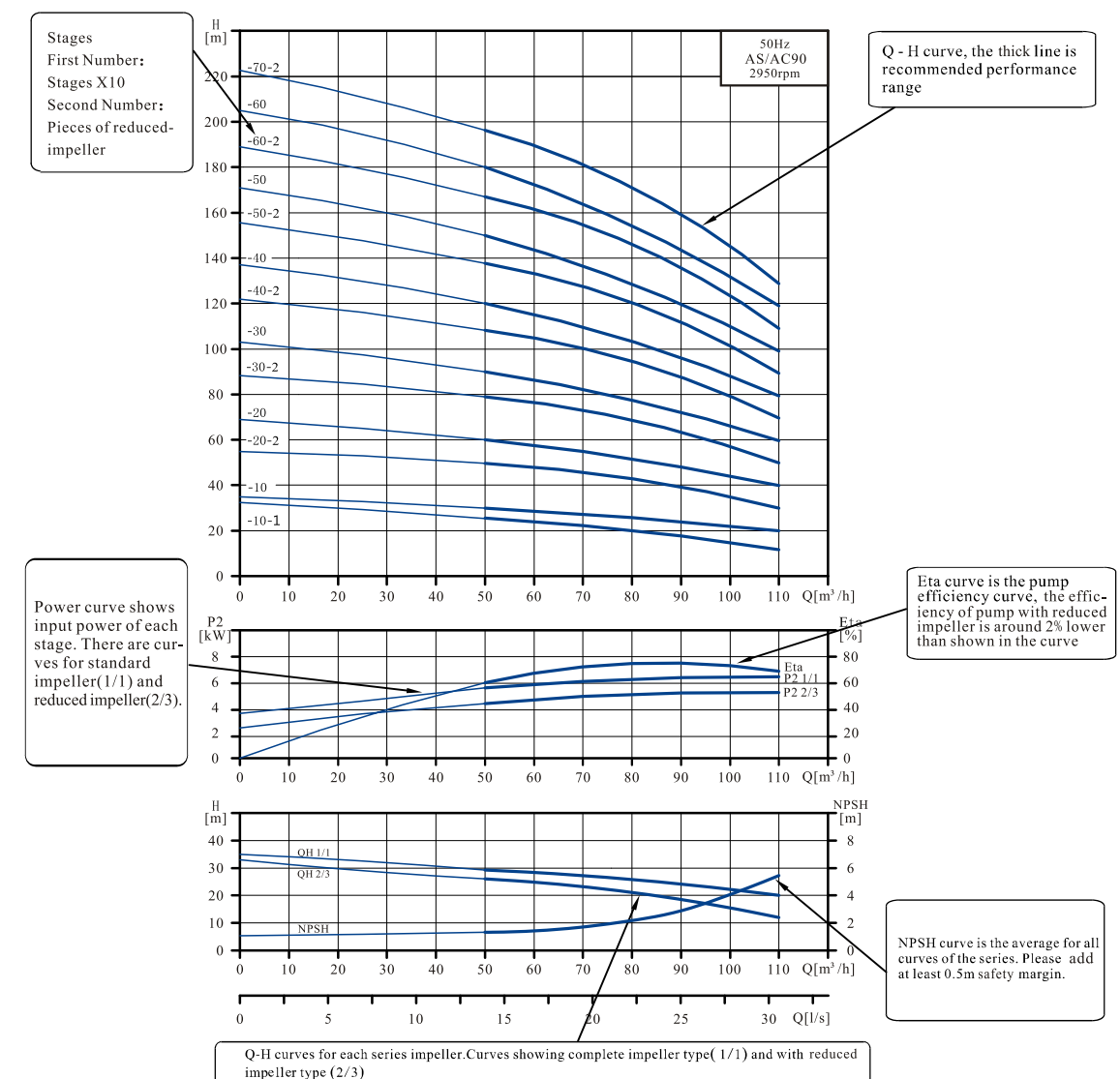
H_s = Safety margin = Minimum 0.5m head

If calculated H is positive, the pump can be run under the condition of Max. suction head.

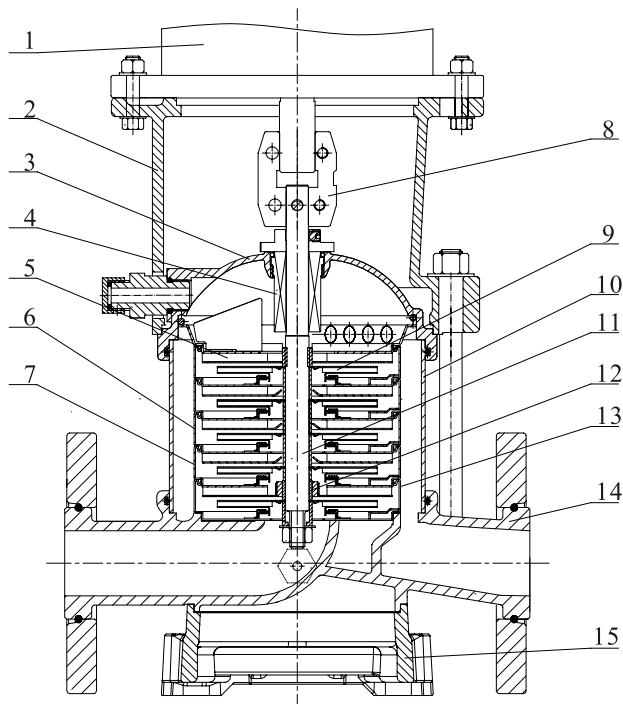
If calculated H is negative, a minimum inlet pressure must be maintained.



Check to ensure that the pump will be not in cavitation.



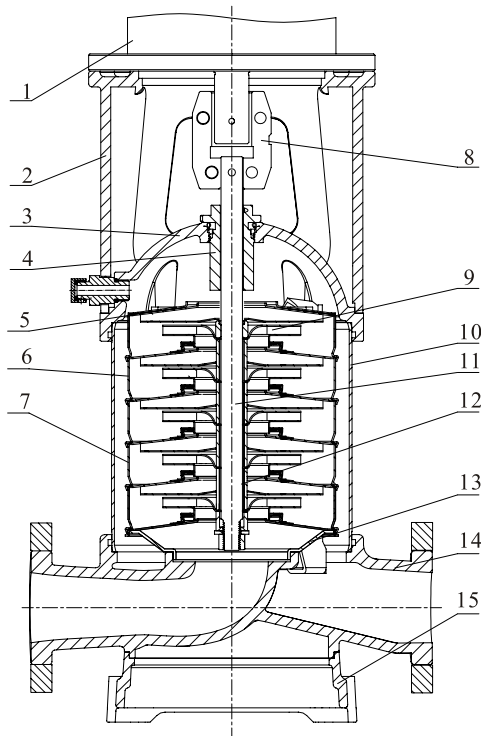
Structure drawing: AS/AC1,2,3,4,5



Material: AS/AC1,2,3,4,5

No	Description	Material		GB		EN DIN		AISI/ASTM	
		AC	AS	AC	AS	AC	AS	AC	AS
1	Motor	/		/		/		/	
2	Bracket	Ductile iron		GB 1348-QT500-7		EN 1563 EN-GJS-500-7		ASTMA536 65-45-12	
3	Pump head	Ductile iron/ Stainless Steel		GB 1348-QT500-7/ GB/T20878-06Cr19Ni10		EN 1563 EN-GJS-500-7/ EN 10088-1.4301		ASTMA536 65-45-12/ AISI304	
4	Mechanical seal	/		/		/		/	
5	Discharge diffuser	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
6	Diffuser	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
7	Support diffuser	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
8	Coupling	Ductile iron		GB 1348-QT500-7		EN 1563 EN-GJS-500-7		ASTMA536 65-45-12	
9	Impeller	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
10	Casing	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
11	Pump shaft	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
12	Bush	Silicon Carbide/ Tungsten Carbide		/		/		/	
13	Suction diffuser	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
14	Base	Ductile iron/ Stainless Steel		GB 1348-QT500-7/ GB/T20878-06Cr19Ni10		EN 1563 EN-GJS-500-7/ EN 10088-1.4301		ASTMA536 65-45-12/ AISI304	
15	Base plate	Ductile iron		GB 1348-QT500-7		EN 1563 EN-GJS-500-7		ASTMA536 65-45-12	

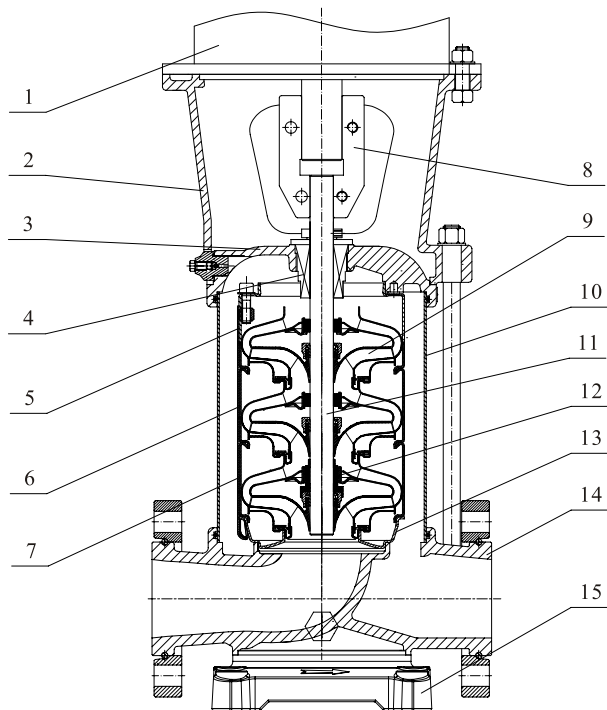
Structure drawing: AS/AC8,10,12,15,16,20,26



Material: AS/AC8,10,12,15,16,20,26

No	Description	Material		GB		EN DIN		AISI/ASTM	
		AC	AS	AC	AS	AC	AS	AC	AS
1	Motor	/		/		/		/	
2	Bracket	Ductile iron		GB 1348-QT500-7		EN 1563 EN-GJS-500-7		ASTMA536 65-45-12	
3	Pump head	Ductile iron/ Stainless Steel		GB 1348-QT500-7/ GB/T20878-06Cr19Ni10		EN 1563 EN-GJS-500-7/ EN 10088-1.4301		ASTMA536 65-45-12/ AISI304	
4	Mechanical seal	/		/		/		/	
5	Discharge diffuser	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
6	Diffuser	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
7	Support diffuser	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
8	Coupling	Ductile iron		GB 1348-QT500-7		EN 1563 EN-GJS-500-7		ASTMA536 65-45-12	
9	Impeller	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
10	Casing	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
11	Pump shaft	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
12	Bush	Silicon Carbide/ Tungsten Carbide		/		/		/	
13	Suction diffuser	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
14	Base	Ductile iron/ Stainless Steel		GB 1348-QT500-7/ GB/T20878-06Cr19Ni10		EN 1563 EN-GJS-500-7/ EN 10088-1.4301		ASTMA536 65-45-12/ AISI304	
15	Base plate	Ductile iron		GB 1348-QT500-7		EN 1563 EN-GJS-500-7		ASTMA536 65-45-12	

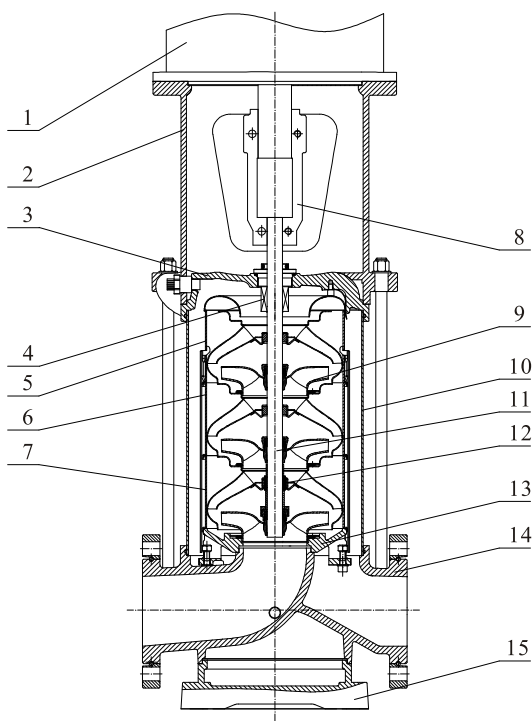
Structure drawing: AS/AC32,45,64,90



Material: AS/AC32,45,64,90

No	Description	Material		GB		EN DIN		AISI/ASTM	
		AC	AS	AC	AS	AC	AS	AC	AS
1	Motor	/		/		/		/	
2	Bracket	Ductile iron		GB 1348-QT500-7		EN 1563 EN-GJS-500-7		ASTMA536 65-45-12	
3	Pump head	Ductile iron/ Stainless Steel		GB 1348-QT500-7/ GB/T20878-06Cr19Ni10		EN 1563 EN-GJS-500-7/ EN 10088-1.4301		ASTMA536 65-45-12/ AISI304	
4	Mechanical seal	/		/		/		/	
5	Discharge diffuser	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
6	Diffuser	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
7	Support diffuser	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
8	Coupling	Ductile iron		GB 1348-QT500-7		EN 1563 EN-GJS-500-7		ASTMA536 65-45-12	
9	Impeller	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
10	Casing	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
11	Pump shaft	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
12	Bush	Silicon Carbide/ Tungsten Carbide		/		/		/	
13	Suction diffuser	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
14	Base	Ductile iron/ Stainless Steel		GB 1348-QT500-7/ GB/T20878-06Cr19Ni10		EN 1563 EN-GJS-500-7/ EN 10088-1.4301		ASTMA536 65-45-12/ AISI304	
15	Base plate	Ductile iron		GB 1348-QT500-7		EN 1563 EN-GJS-500-7		ASTMA536 65-45-12	

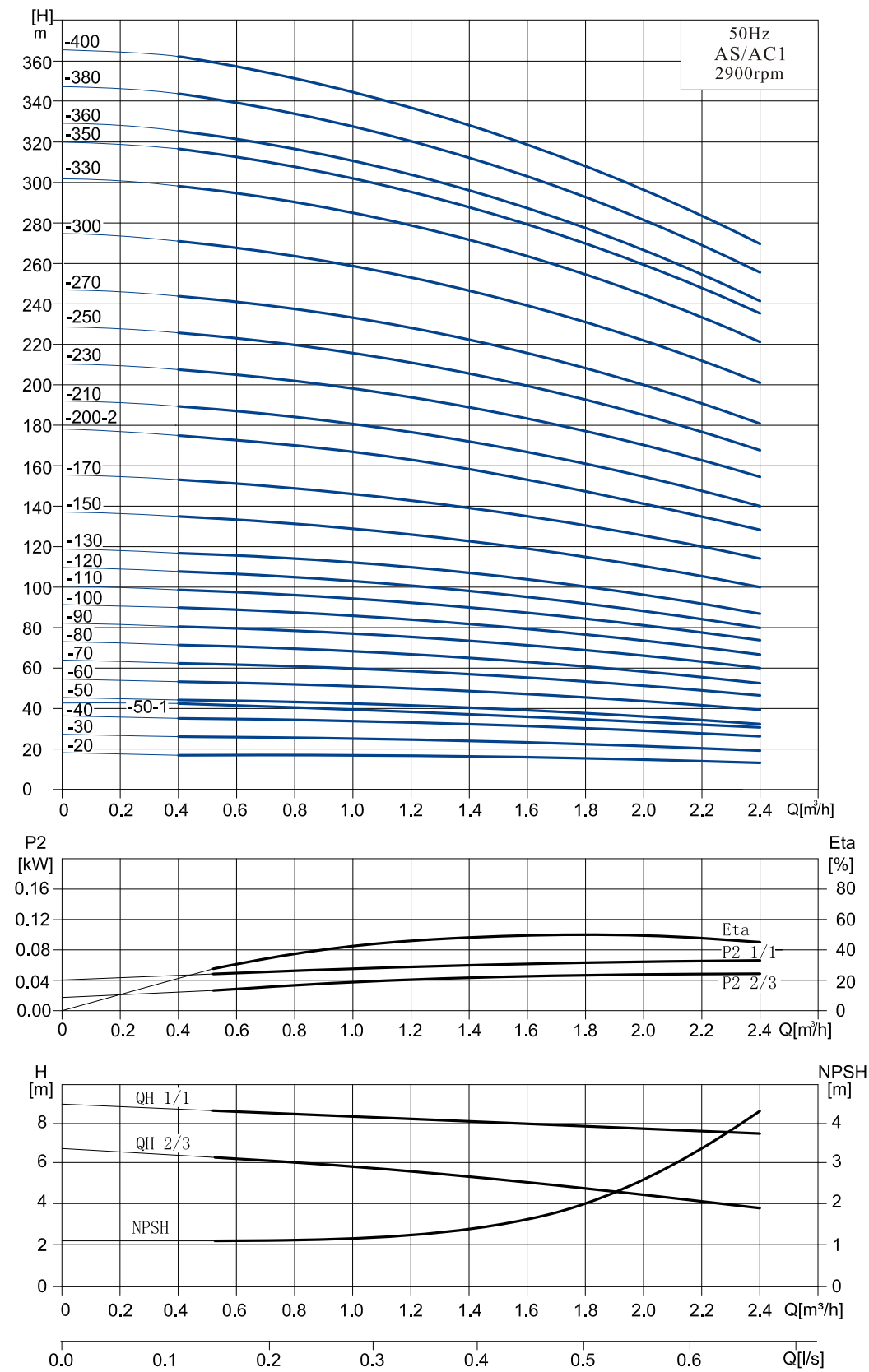
Structure drawing: AS/AC100,130,160,190,220,260,300,350,400,450



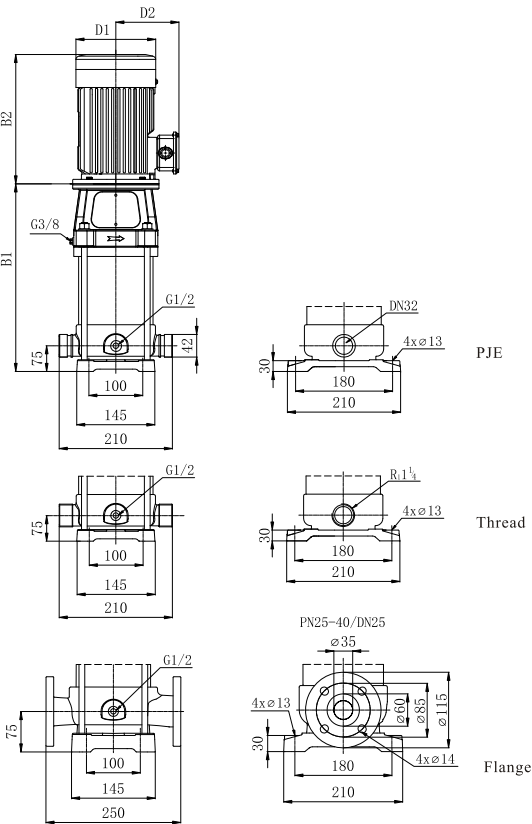
Material: AS/AC100,130,160,190,220,260,300,350,400,450

No	Description	Material		GB		EN DIN		AISI/ASTM	
		AC	AS	AC	AS	AC	AS	AC	AS
1	Motor	/		/		/		/	
2	Bracket	Ductile iron		GB 1348-QT500-7		EN 1563 EN-GJS-500-7		ASTMA536 65-45-12	
3	Pump head	Ductile iron/ Stainless Steel		GB 1348-QT500-7/ GB/T20878-06Cr19Ni10		EN 1563 EN-GJS-500-7/ EN 10088-1.4301		ASTMA536 65-45-12/ AISI304	
4	Mechanical seal	/		/		/		/	
5	Discharge diffuser	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
6	Diffuser	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
7	Support diffuser	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
8	Coupling	Ductile iron		GB 1348-QT500-7		EN 1563 EN-GJS-500-7		ASTMA536 65-45-12	
9	Impeller	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
10	Casing	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
11	Pump shaft	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
12	Bush	Silicon Carbide/ Tungsten Carbide		/		/		/	
13	Suction diffuser	Stainless Steel		GB/T20878-06Cr19Ni10		EN 10088-1.4301		AISI304	
14	Base	Ductile iron/ Stainless Steel		GB 1348-QT500-7/ GB/T20878-06Cr19Ni10		EN 1563 EN-GJS-500-7/ EN 10088-1.4301		ASTMA536 65-45-12/ AISI304	
15	Base plate	Ductile iron		GB 1348-QT500-7		EN 1563 EN-GJS-500-7		ASTMA536 65-45-12	

Performance Curves



Installation Drawing



Size & Weight

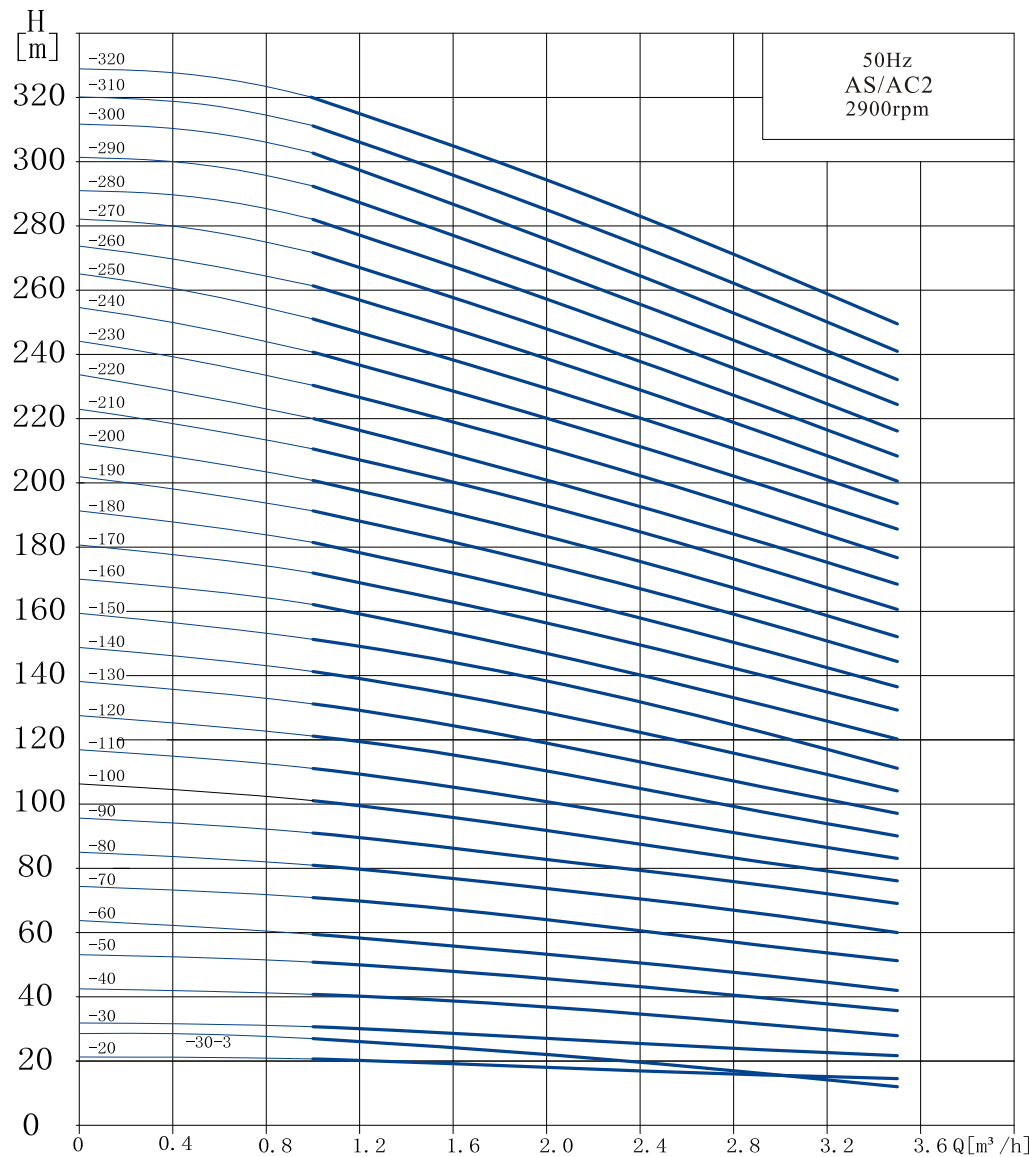
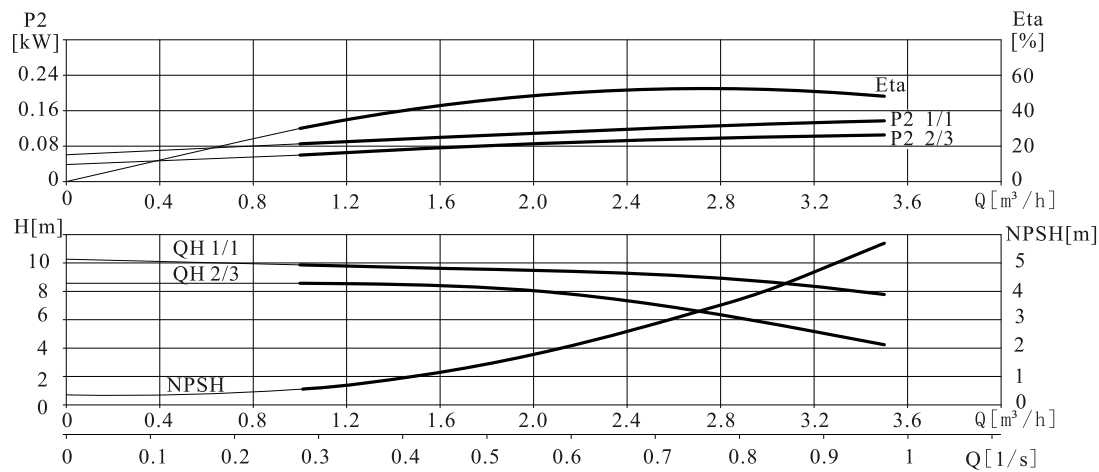
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS1-20	262	249	511	139	116	21
AS1-30	280	249	529	139	116	21
AS1-40	298	249	547	139	116	22
AS1-50-1	316	249	565	139	116	23
AS1-50	316	249	565	139	116	24
AS1-60	334	249	583	139	116	25
AS1-70	352	249	601	139	116	26
AS1-80	380	271	651	154	124	29
AS1-90	398	271	669	154	124	30
AS1-100	416	271	687	154	124	31
AS1-110	434	271	705	154	124	33
AS1-120	452	271	723	154	124	34
AS1-130	470	271	741	154	124	35
AS1-150	506	271	777	154	124	36
AS1-170	552	272	824	166	135	43
AS1-200-2	606	272	878	166	135	45
AS1-210	624	322	946	166	135	48
AS1-230	660	322	982	166	135	49
AS1-250	696	322	1018	166	135	51
AS1-270	732	322	1054	166	135	52
AS1-300	786	322	1108	166	135	54
AS1-330	850	339	1189	193	147	66
AS1-350	886	339	1225	193	147	67
AS1-360	904	339	1243	193	147	68
AS1-380	940	339	1279	193	147	69
AS1-400	976	339	1315	193	147	70

Note: For same model, AC is 1.5 kg heavier than AS.

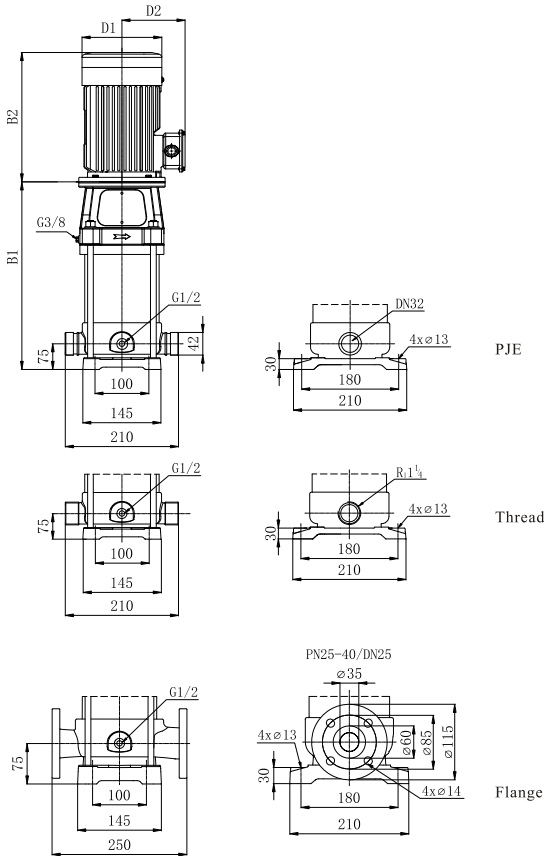
Performance Table

Model	Motor(kW)	Q (m³/h)	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2	2.2	2.4
AS1-20	0.37	H (m)	18	17.7	17.4	17	16.8	16.5	16	15.5	15	14	13
AS1-30	0.37		27	26.7	26.4	26	25	24.5	24	23	22	21	20
AS1-40	0.37		36	35.5	35	34	33.5	33	32	31	30	28	27
AS1-50-1	0.37		43	42	41	39.5	39	38	37	36	34	33	31
AS1-50	0.55		45	44.5	44	43	42	41	40	38.5	37	35	33.5
AS1-60	0.55		54	53.5	53	51	50	49	48	46	44	42	40
AS1-70	0.55		63	62.5	61.5	60	59	58	56	54	52	50	47
AS1-80	0.75		72	71.5	70	69	67	66	64	62	59	57	54
AS1-90	0.75		81	80	79	77	76	74	72	69	67	64	60
AS1-100	0.75		90	89	88	86	84	82	80	77	74	71	67
AS1-110	1.1		99	98	97	94	93	90	88	85	81	78	74
AS1-120	1.1		108	107	105	103	101	99	96	93	89	85	80
AS1-130	1.1		117	116	114	111	110	107	104	100	96	92	87
AS1-150	1.1		135	134	132	129	126	123	120	116	111	106	100
AS1-170	1.5		153	151.5	150	146	143	140	135	131	126	120	114
AS1-200-2	1.5		175	173	170	167	163	158	153	148	142	136	128
AS1-210	2.2		189	187.5	185	180	177	173	167	162	155	149	141
AS1-230	2.2		207	205	202	197	194	189	183	177	170	163	154
AS1-250	2.2		225	223	220	214	211	206	199	193	185	177	167
AS1-270	2.2		243	241	238	231	227	222	215	208	200	191	181
AS1-300	2.2		270	268	264	257	253	247	239	231	222	212	201
AS1-330	3		297	295	290	283	278	271	263	255	244	234	221
AS1-350	3		315	312	308	300	295	288	279	270	259	248	234
AS1-360	3		324	321	317	309	303	296	287	278	266	255	241
AS1-380	3		344	339	334	328	320	312	303	293	281	269	256
AS1-400	3		362	357	351	345	337	328	319	308	296	284	270

Performance Curves



Installation Drawing



Size & Weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS2-20	262	249	511	139	116	21
AS2-30-3	280	249	529	139	116	21
AS2-30	280	249	529	139	116	24
AS2-40	298	249	547	139	116	24
AS2-50	326	271	597	154	124	28
AS2-60	344	271	615	154	124	28
AS2-70	362	271	633	154	124	31
AS2-80	380	271	651	154	124	32
AS2-90	398	271	669	154	124	32
AS2-100	426	272	698	166	135	39
AS2-110	444	272	716	166	135	39
AS2-120	462	272	734	166	135	40
AS2-130	480	322	802	166	135	43
AS2-140	498	322	820	166	135	43
AS2-150	516	322	838	166	135	44
AS2-160	534	322	856	166	135	45
AS2-170	552	322	874	166	135	45
AS2-180	570	322	892	166	135	47
AS2-190	598	339	937	193	147	56
AS2-200	616	339	955	193	147	57
AS2-210	634	339	973	193	147	58
AS2-220	652	339	991	193	147	58
AS2-230	670	339	1009	193	147	59
AS2-240	688	354	1042	220	172	68
AS2-250	706	354	1060	220	172	68
AS2-260	724	354	1078	220	172	69
AS2-270	742	354	1096	220	172	70
AS2-280	760	354	1114	220	172	71
AS2-290	778	354	1132	220	172	71
AS2-300	796	354	1150	220	172	72
AS2-310	834	414	1248	220	192	89
AS2-320	852	414	1266	220	192	89

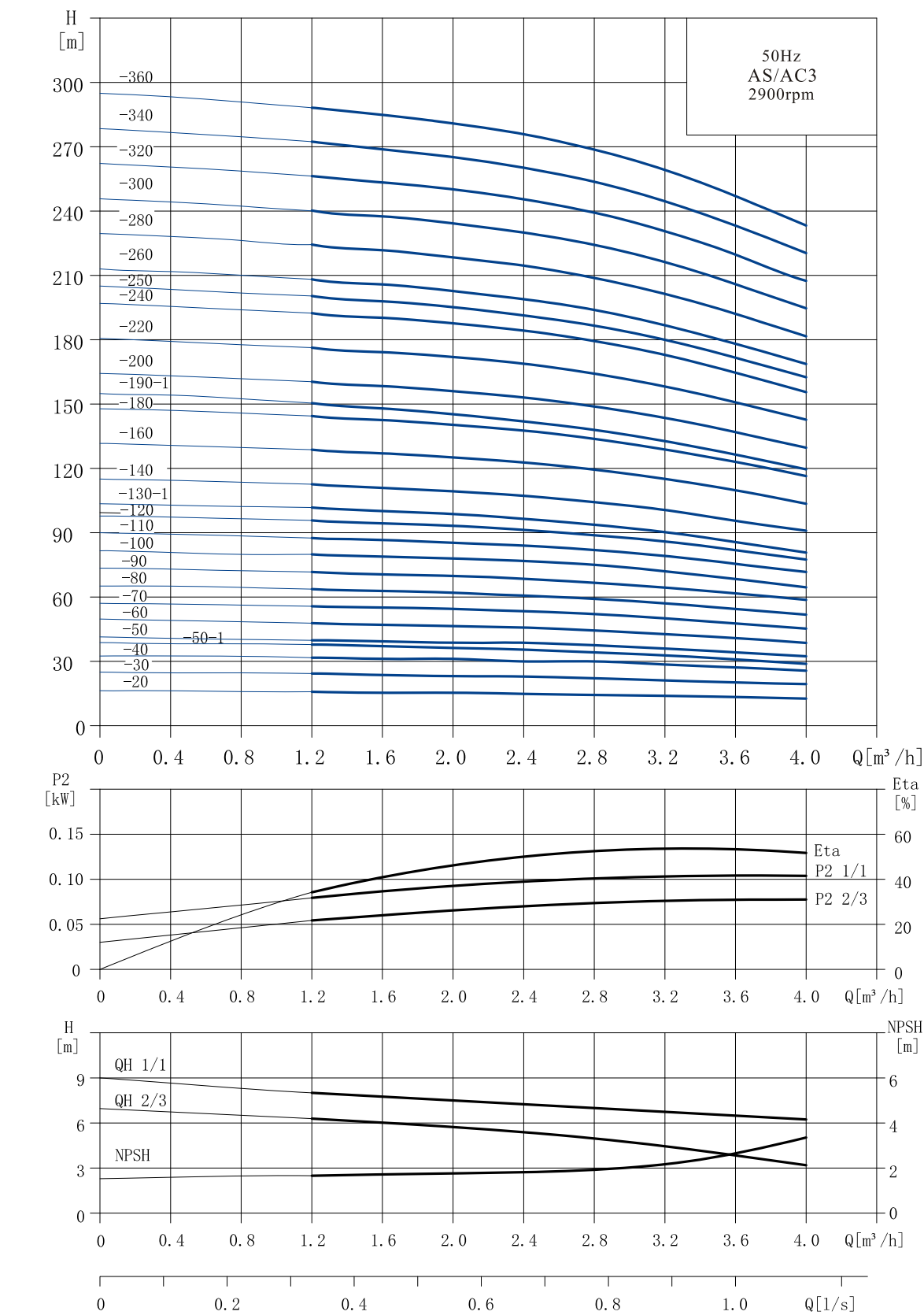
Note: For the same model, AC is 1.5 kg heavier than AS.

Performance Table

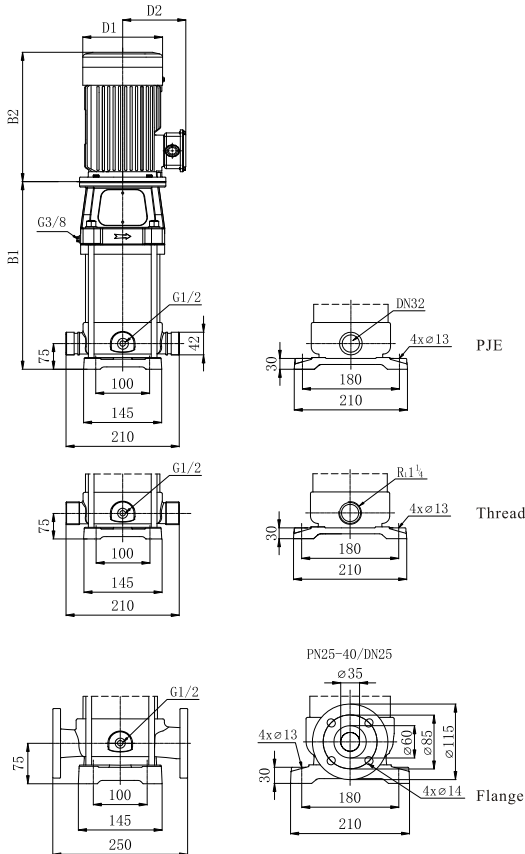
Model	Motor (kW)	Q (m³/h)	H (m)						
			1.0	1.2	1.6	2.0	2.4	2.8	3.2
AS2-20	0.37		21	20	19	18	17	16	15
AS2-30-3	0.37		27	26	24	22	20	18	15
AS2-30	0.55		31	30	28	27	26	24	22
AS2-40	0.55		41	40	38	37	35	32	30
AS2-50	0.75		51	50	48	45	43	40	38
AS2-60	0.75		61	60	58	54	52	48	46
AS2-70	1.1		71	70	67	64	61	56	53
AS2-80	1.1		81	80	77	74	71	67	63
AS2-90	1.1		91	90	86	82	78	75	72
AS2-100	1.5		101	100	96	92	87	83	79
AS2-110	1.5		111	110	105	101	96	91	87
AS2-120	1.5		121	120	115	111	105	99	93
AS2-130	2.2		131	130	124	120	113	107	101
AS2-140	2.2		141	140	134	129	122	116	108
AS2-150	2.2		151	150	143	138	131	124	117
AS2-160	2.2		162	160	153	148	140	133	126

Model	Motor (kW)	Q (m³/h)	H (m)						
			1.0	1.2	1.6	2.0	2.4	2.8	3.2
AS2-170	2.2		172	170	163	157	149	142	135
AS2-180	2.2		181	180	172	165	157	150	142
AS2-190	3		191	190	182	174	167	159	150
AS2-200	3		201	200	191	183	176	167	159
AS2-210	3		211	210	201	193	185	176	168
AS2-220	3		221	220	210	202	193	183	175
AS2-230	3		232	230	221	212	202	192	184
AS2-240	4		242	240	230	221	211	201	193
AS2-250	4		253	250	240	230	220	210	201
AS2-260	4		263	260	250	239	229	219	210
AS2-270	4		273	270	259	248	238	228	218
AS2-280	4		283	280	269	258	247	237	226
AS2-290	4		293	290	278	267	256	245	234
AS2-300	4		303	300	288	276	263	253	242
AS2-310	5.5		313	310	298	285	272	262	251
AS2-320	5.5		323	320	307	294	282	271	259

Performance Curves



Installation Drawing



Size & Weight

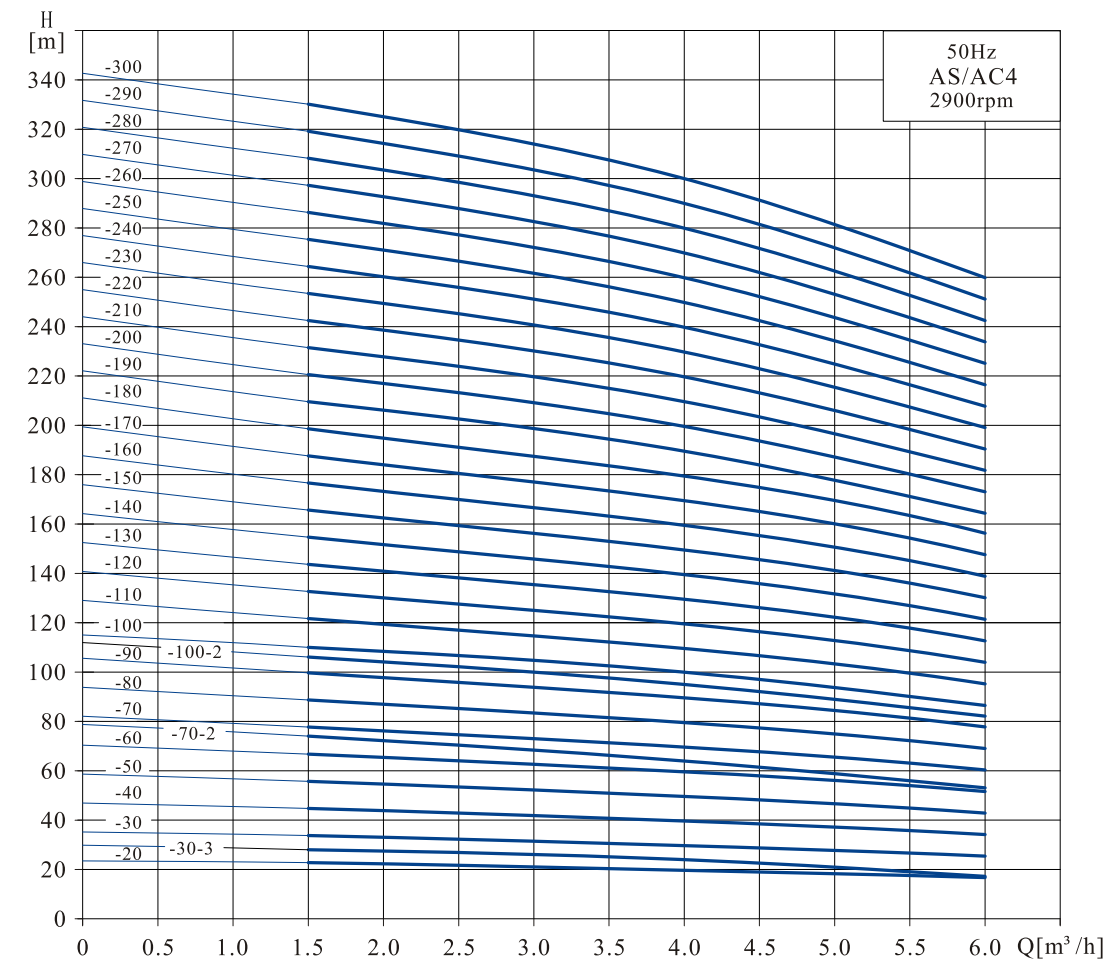
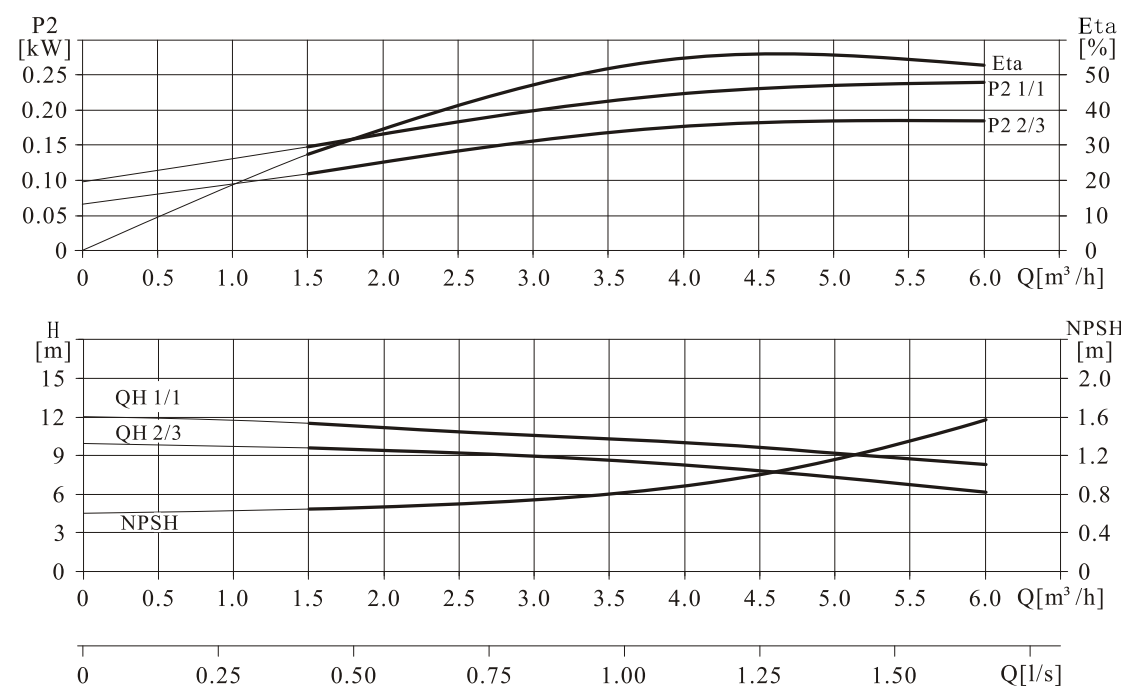
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS3-20	262	249	511	139	116	21
AS3-30	280	249	529	139	116	22
AS3-40	298	249	547	139	116	24
AS3-50-1	316	249	565	139	116	25
AS3-50	326	271	597	154	124	28
AS3-60	344	271	615	154	124	29
AS3-70	362	271	633	154	124	31
AS3-80	380	271	651	154	124	32
AS3-90	398	271	669	154	124	33
AS3-100	426	272	698	166	135	39
AS3-110	444	272	716	166	135	40
AS3-120	462	272	734	166	135	40
AS3-130-1	480	272	752	166	135	41
AS3-140	498	322	820	166	135	44
AS3-160	534	322	856	166	135	44
AS3-180	570	322	892	166	135	45
AS3-190-1	588	322	910	166	135	46
AS3-200	616	339	955	193	147	56
AS3-220	652	339	991	193	147	58
AS3-240	688	339	1027	193	147	59
AS3-250	706	339	1045	193	147	60
AS3-260	724	354	1078	220	172	69
AS3-280	760	354	1114	220	172	70
AS3-300	796	354	1150	220	172	71
AS3-320	832	354	1186	220	172	73
AS3-340	888	414	1302	259	192	90
AS3-360	924	414	1338	259	192	92

Note: For the same model, AC is 1.5 kg heavier than AS.

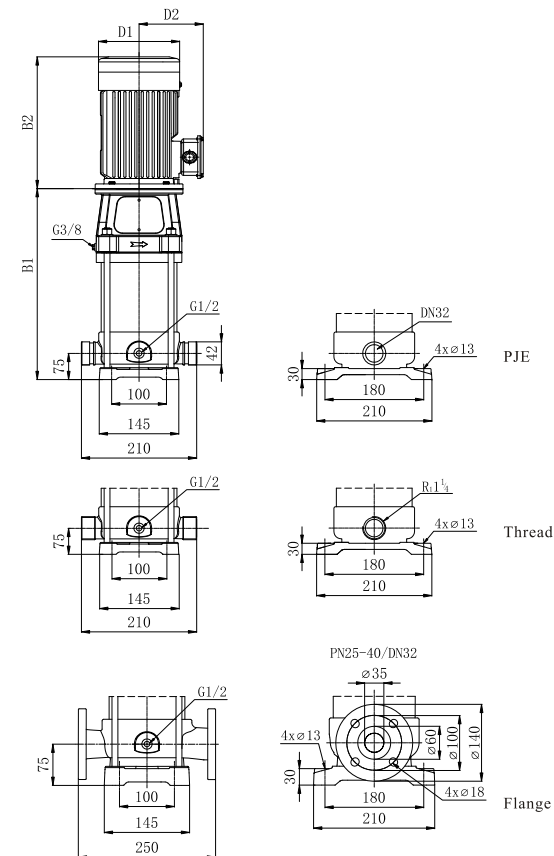
Performance Table

Model	Motor (kW)	Q (m³/h)	1.2	1.6	2	2.4	2.8	3	3.2	3.6	4
AS3-20	0.37	H (m)	16	15.8	15.5	15.2	14.8	14.5	14	13.5	13
AS3-30	0.37		24.5	24	23.5	23	22.5	22	21.5	20.5	19.5
AS3-40	0.55		32	31.5	31	30.5	30	29.5	28.5	27.5	26
AS3-50-1	0.55		38	37	37	36	35	34	33	31	29
AS3-50	0.75		40	39.5	39	38	37	37	36	34	32.5
AS3-60	0.75		48	47.5	47	45.5	44.5	44	43	41	39
AS3-70	1.1		56	55	54.5	53	52	51.5	50	48	45.5
AS3-80	1.1		64	63	62.5	60.5	59	58.5	57	54.5	52
AS3-90	1.1		72	71	70	68	67	66	65	61	59
AS3-100	1.5		80	79	78	76	74	74	72	68	65
AS3-110	1.5		88	87	86	83	81	81	79	75	72
AS3-120	1.5		96	95	94	91	89	88	86	82	78
AS3-130-1	1.5		102	101	100	96	94	93	91	86	81
AS3-140	2.2		113	110	110	106	103	103	100	95	91
AS3-160	2.2		129	126	125	121	118	118	115	109	104
AS3-180	2.2		145	142	141	136	133	132	129	123	117
AS3-190-1	2.2		151	148	147	141	138	137	134	127	120
AS3-200	3		161	158	157	152	148	147	143	136	130
AS3-220	3		177	173	172	167	163	162	158	150	143
AS3-240	3		193	189	188	182	177	177	172	164	156
AS3-250	3		201	197	196	190	185	184	179	170	163
AS3-260	4		209	205	204	197	192	191	186	177	169
AS3-280	4		225	221	219	212	207	206	201	191	182
AS3-300	4		241	236	235	227	222	221	215	205	195
AS3-320	4		257	252	251	243	236	236	229	218	208
AS3-340	5.5		273	268	266	258	251	250	244	232	221
AS3-360	5.5		289	284	282	273	266	265	258	245	234

Performance Curves



Installation Drawing



Size & Weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS4-20	280	249	520	139	116	23
AS4-30-3	307	249	547	139	116	25
AS4-30	317	271	597	154	124	27
AS4-40	344	271	624	154	124	30
AS4-50	371	271	651	154	124	30
AS4-60	408	272	758	166	135	37
AS4-70-2	435	272	785	166	135	38
AS4-70	435	322	785	166	135	40
AS4-80	462	322	812	166	135	41
AS4-90	489	322	839	166	135	41
AS4-100-2	516	322	866	166	135	42
AS4-100	526	339	936	193	147	50
AS4-110	553	339	963	193	147	53
AS4-120	580	339	990	193	147	54
AS4-130	607	339	1017	193	147	54
AS4-140	634	354	1044	220	172	63
AS4-150	661	354	1071	220	172	64
AS4-160	688	354	1098	220	172	64
AS4-170	715	354	1125	220	172	65
AS4-180	742	354	1152	220	172	68
AS4-190	789	414	1254	259	192	83
AS4-200	816	414	1281	259	192	83
AS4-210	843	414	1308	259	192	84
AS4-220	870	414	1335	259	192	85
AS4-230	897	414	1362	259	192	91
AS4-240	924	414	1389	259	192	92
AS4-250	951	414	1416	259	192	93
AS4-260	978	414	1443	259	192	93
AS4-270	1005	414	1470	259	192	94
AS4-280	1032	414	1497	259	192	95
AS4-290	1059	414	1524	259	192	96
AS4-300	1086	414	1551	259	192	96

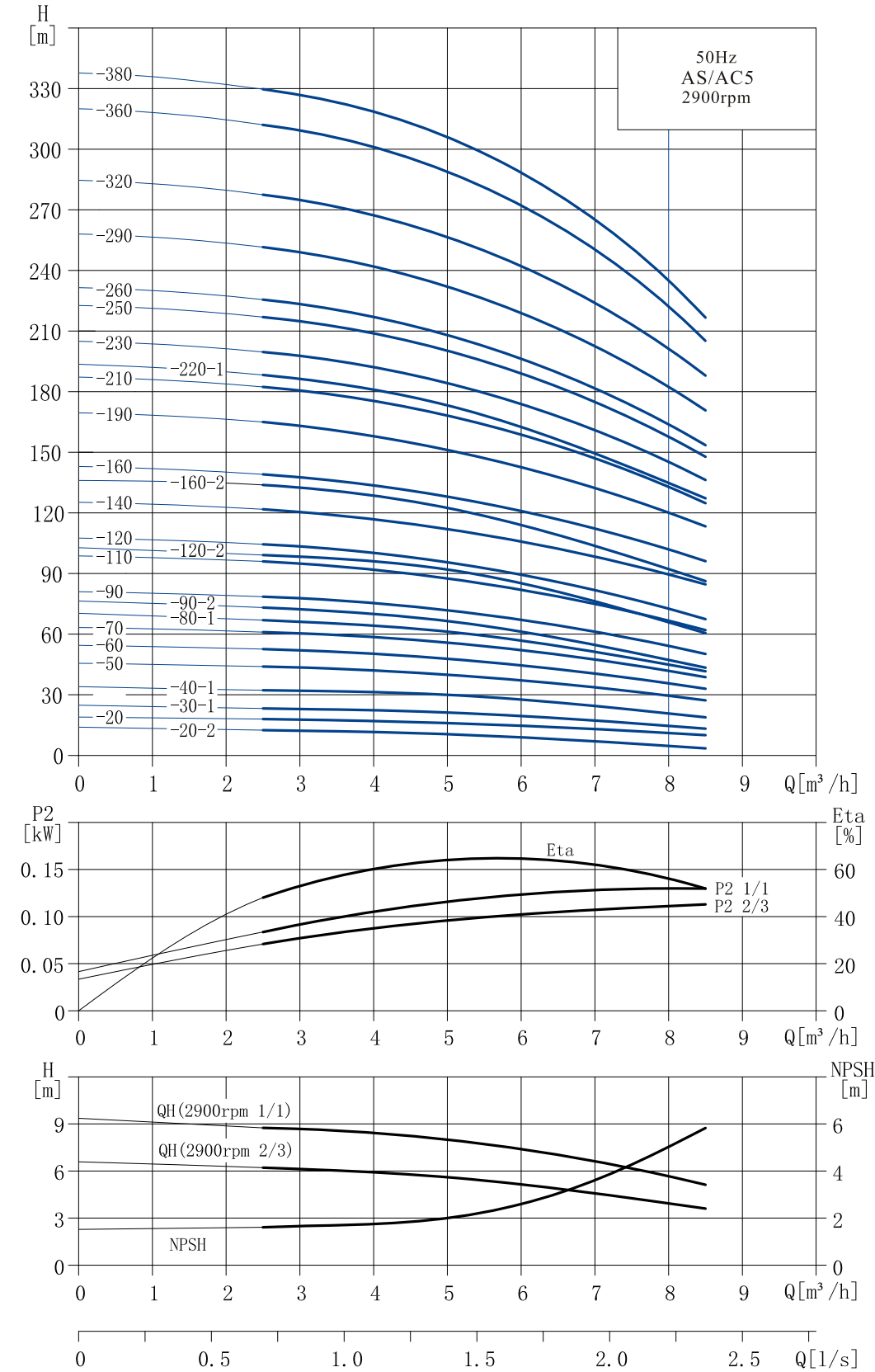
Note: For the same model, AC is 1.5 kg heavier than AS.

Performance Table

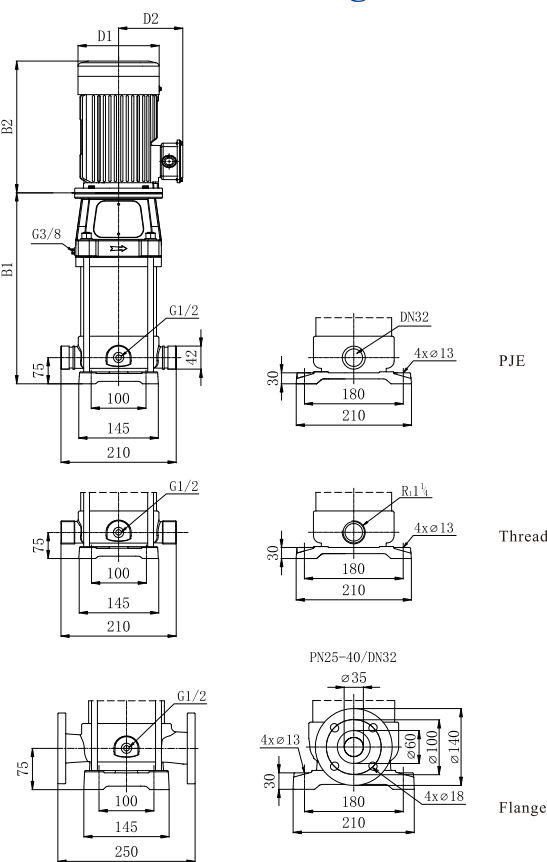
Model	Motor (kW)	Q (m³/h)	1.5	2.0	3.0	4.0	5.0	6.0
AS4-20	0.55	H (m)	23	22	21	20	18	17
AS4-30-3	0.55		28	27	26	24	20	18
AS4-30	0.75		33	32	31	30	28	26
AS4-40	1.1		44	43	41	40	38	35
AS4-50	1.1		55	54	52	50	47	44
AS4-60	1.5		66	65	62	60	56	53
AS4-70-2	1.5		74	72	68	64	59	55
AS4-70	2.2		77	75	73	70	66	63
AS4-80	2.2		88	86	83	80	75	70
AS4-90	2.2		98	97	93	90	85	79
AS4-100-2	2.2		106	104	100	95	90	84
AS4-100	3		110	108	104	100	95	88
AS4-110	3		121	119	114	110	104	97
AS4-120	3		132	130	125	120	113	106
AS4-130	3		143	140	135	130	123	115
AS4-140	4	154	152	145	140	132	124	

Model	Motor (kW)	Q (m³/h)	1.5	2.0	3.0	4.0	5.0	6.0
AS4-150	4	H (m)	165	162	156	150	142	132
AS4-160	4		176	173	166	160	151	141
AS4-170	4		187	184	177	170	161	150
AS4-180	4		198	195	187	180	170	159
AS4-190	5.5		210	206	199	190	178	164
AS4-200	5.5		220	217	209	200	187	173
AS4-210	5.5		231	228	220	210	197	182
AS4-220	5.5		242	238	230	220	206	190
AS4-230	7.5		253	249	240	230	215	199
AS4-240	7.5		264	260	251	240	225	208
AS4-250	7.5		275	271	261	250	234	216
AS4-260	7.5		286	282	272	260	244	225
AS4-270	7.5		297	292	282	270	253	234
AS4-280	7.5		308	303	293	280	263	242
AS4-290	7.5		319	314	303	290	272	251
AS4-300	7.5	330	325	314	300	282	260	

Performance Curves



Installation Drawing



Size & Weight

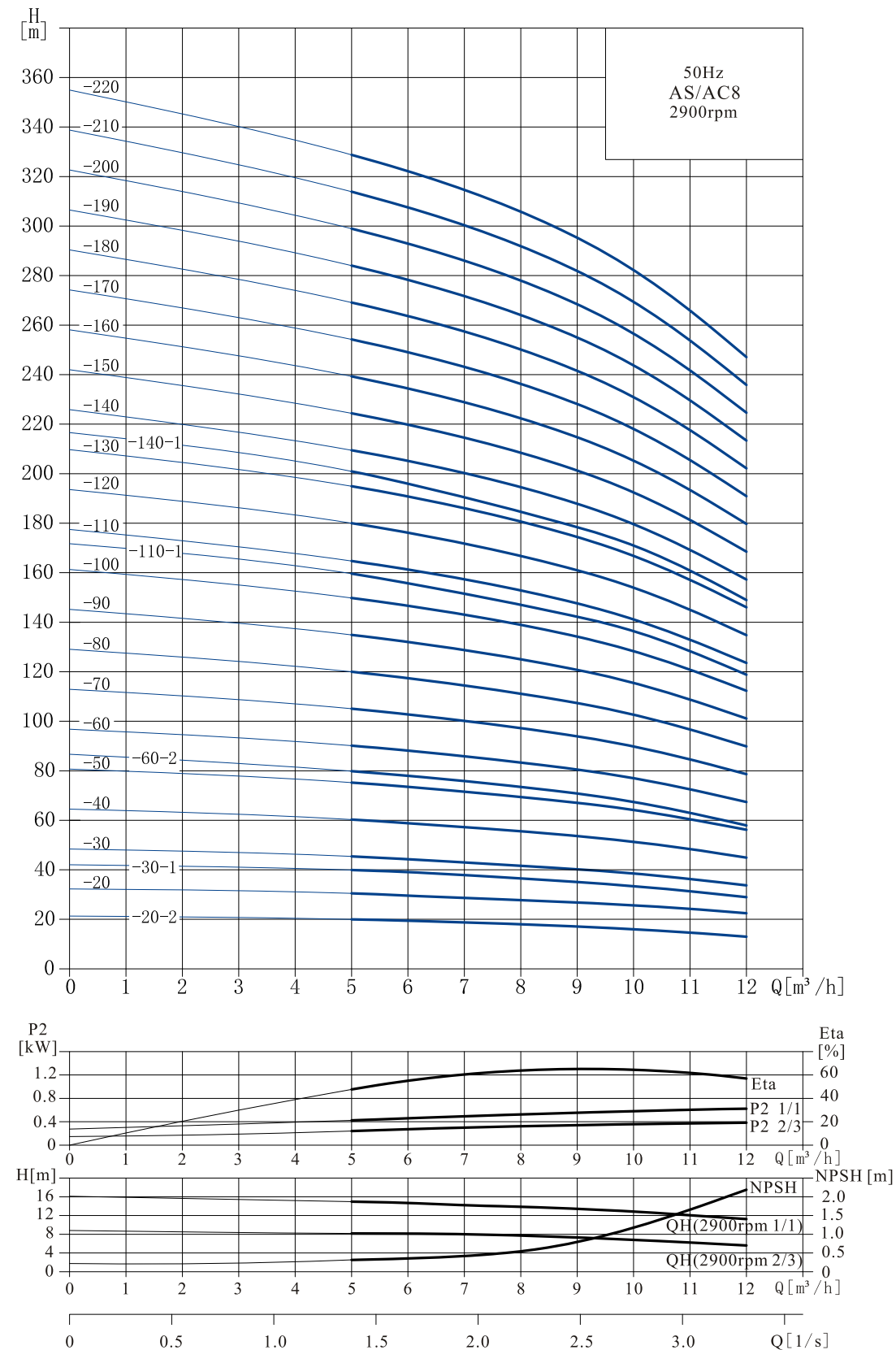
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS5-20-2	280	249	529	139	116	21
AS5-20	280	249	529	139	116	23
AS5-30-1	307	249	556	139	116	23
AS5-40-1	344	271	615	154	124	27
AS5-50	371	271	642	154	124	29
AS5-60	398	271	669	154	124	30
AS5-70	435	272	707	166	135	36
AS5-80-1	462	272	734	166	135	37
AS5-90-2	489	272	761	166	135	38
AS5-90	489	322	811	166	135	40
AS5-110	543	322	865	166	135	40
AS5-120-2	570	322	892	166	135	41
AS5-120	570	322	892	166	135	42
AS5-140	634	339	973	193	147	52
AS5-160-2	688	339	1027	193	147	54
AS5-160	688	339	1027	193	147	54
AS5-190	769	354	1123	220	172	64
AS5-210	823	354	1177	220	172	66
AS5-220-1	850	354	1204	220	172	66
AS5-230	897	414	1311	259	192	83
AS5-250	951	414	1365	259	192	84
AS5-260	978	414	1392	259	192	85
AS5-290	1059	414	1473	259	192	93
AS5-320	1140	414	1554	259	192	95
AS5-360	1248	414	1662	259	192	99
AS5-380	1302	414	1716	259	192	101

Note: For the same model, AC is 1.5 kg heavier than AS.

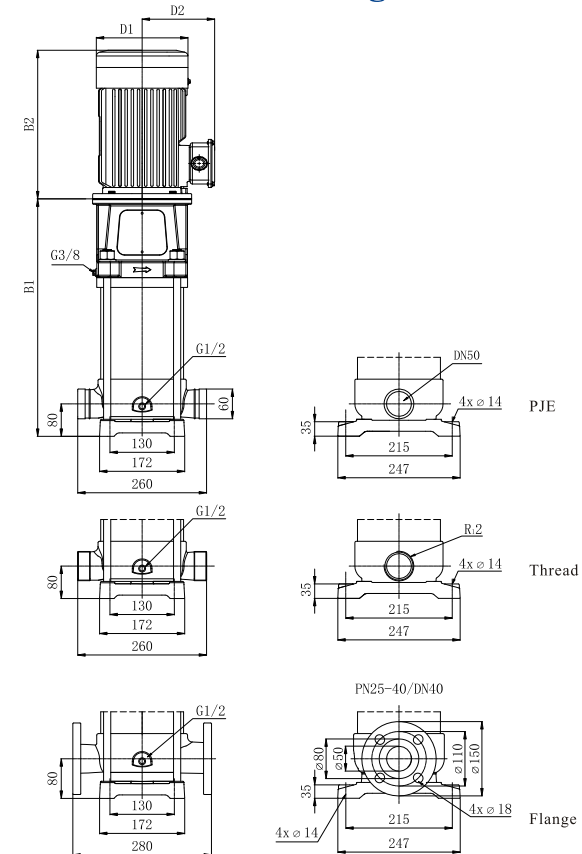
Performance Table

Model	Motor (kW)	Q (m³/h)	2.5	4	5	6	7	8.5
AS5-20-2	0.37	H (m)	12.5	11.5	10.5	9	7	3.5
AS5-20	0.55		17	16.5	16	15	14	12
AS5-30-1	0.55		23	22	21	20	17	13
AS5-40-1	0.75		32	31	30	27	24	19
AS5-50	1.1		43	42	40	38	35	29
AS5-60	1.1		52	50	48	45	42	34
AS5-70	1.5		61	59	56	53	49	40
AS5-80-1	1.5		67	64	61	57	52	42
AS5-90-2	1.5		73	70	67	62	56	43
AS5-90	2.2		78	75	72	68	62	51
AS5-110	2.2		95	92	88	83	76	63
AS5-120-2	2.2		99	95	92	85	76	61
AS5-120	2.2		104	101	96	91	83	68
AS5-140	3		121	117	112	106	97	80
AS5-160-2	3		134	129	123	115	104	83
AS5-160	3		139	134	128	121	111	91
AS5-190	4		165	159	152	143	132	108
AS5-210	4		182	176	168	159	146	120
AS5-220-1	4		188	182	173	163	149	121
AS5-230	5.5		199	193	184	174	160	131
AS5-250	5.5		217	210	200	189	174	143
AS5-260	5.5		225	218	208	196	181	148
AS5-290	7.5		251	243	232	219	201	165
AS5-320	7.5		277	268	256	242	222	182
AS5-360	7.5		312	302	288	272	250	205
AS5-380	7.5		330	319	306	289	265	217

Performance Curves



Installation Drawing



Size & Weight

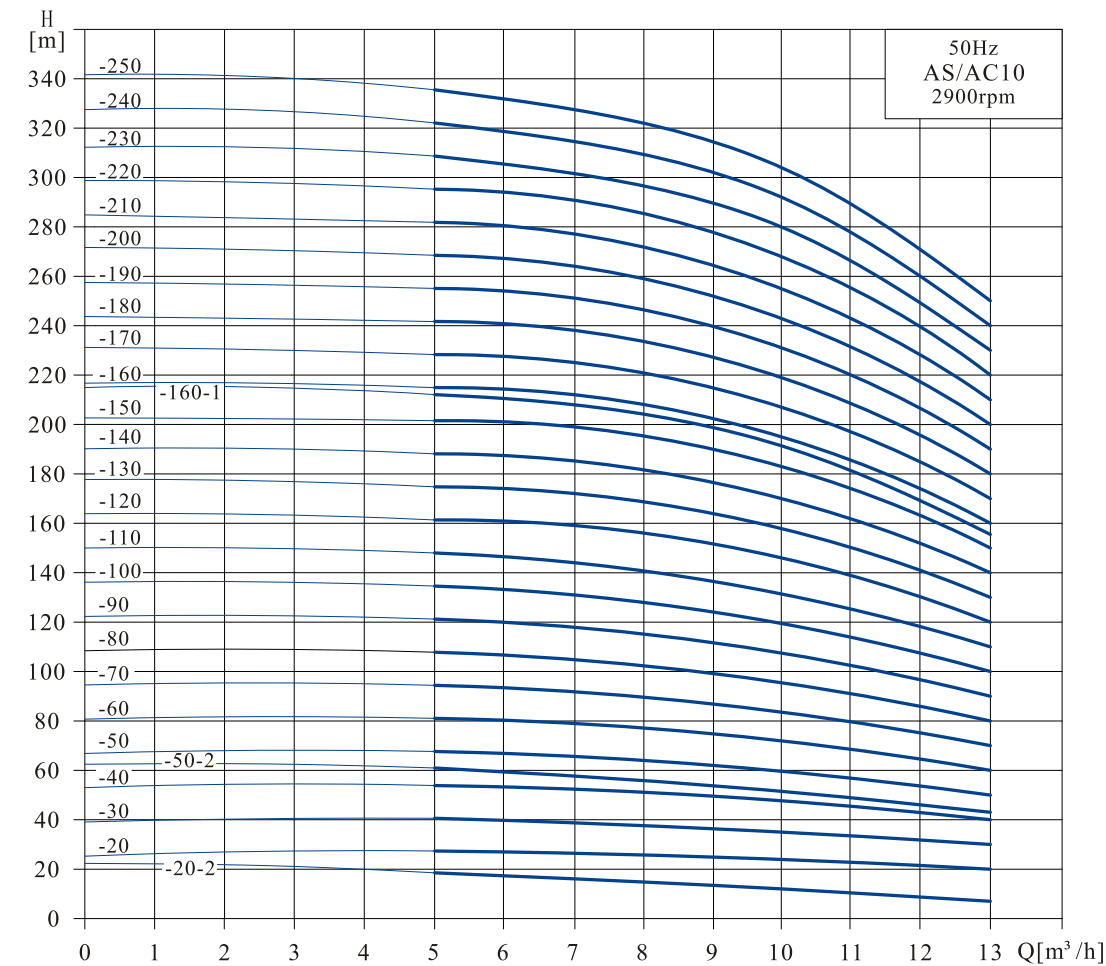
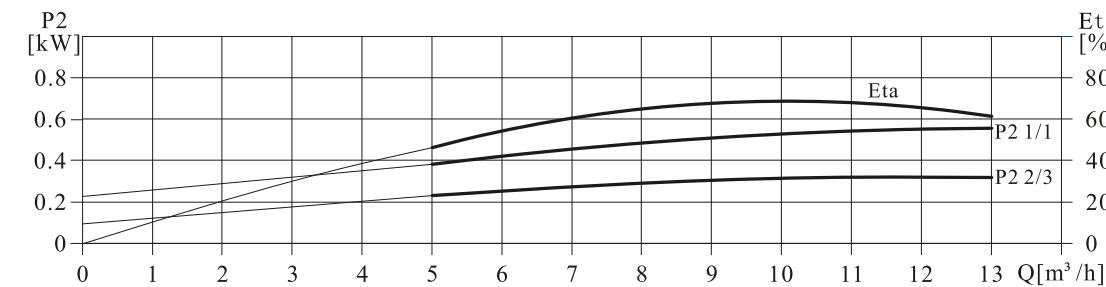
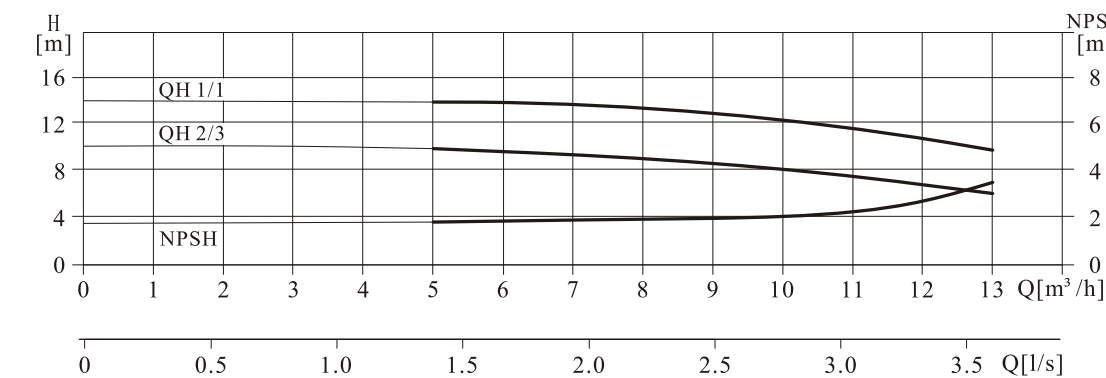
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS8-20-2	355	271	626	154	124	27
AS8-20	355	271	626	154	124	29
AS8-30-1	395	272	667	166	135	36
AS8-30	395	322	717	166	135	38
AS8-40	425	322	747	166	135	39
AS8-50	465	339	804	193	147	49
AS8-60-2	495	339	834	193	147	50
AS8-60	495	354	849	220	172	58
AS8-70	525	354	879	220	172	59
AS8-80	555	354	909	220	172	63
AS8-90	605	414	1019	259	192	78
AS8-100	635	414	1049	259	192	79
AS8-110-1	665	414	1079	259	192	80
AS8-110	665	414	1079	259	192	86
AS8-120	695	414	1109	259	192	87
AS8-130	725	414	1139	259	192	88
AS8-140-1	755	414	1169	259	192	89
AS8-140	843	523	1366	311	235	159
AS8-150	873	523	1396	311	235	160
AS8-160	903	523	1426	311	235	161
AS8-170	933	523	1456	311	235	162
AS8-180	963	523	1486	311	235	163
AS8-190	993	523	1516	311	235	171
AS8-200	1023	523	1546	311	235	172
AS8-210	1053	523	1576	311	235	173
AS8-220	1083	523	1606	311	235	174

Note: For the same model, AC is 2.6 kg heavier than AS.

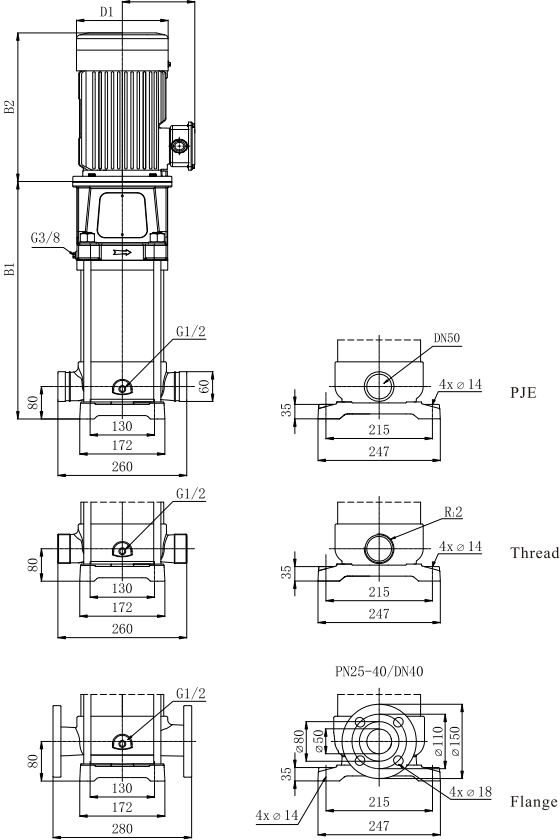
Performance Table

Model	Motor (kW)	Q (m³/h)	5	6	7	8	9	10	11	12
AS8-20-2	0.75	H (m)	20	19.5	19	18	17	16	14	13
AS8-20	1.1		30	29	28	27	26	25.5	24	22
AS8-30-1	1.5		40	39	38	36	35	34	31	29
AS8-30	2.2		45	44	42.5	41	40.5	38.5	36	34
AS8-40	2.2		60	58.5	56.5	55	54	51	48	45
AS8-50	3		75	73	71	68	68	64	60	56
AS8-60-2	3		80	78	76	73	71	67	62	58
AS8-60	4		90	88	85	82	81	77	72	67
AS8-70	4		105	103	99	96	95	90	84	79
AS8-80	4		120	117	113	110	108	103	96	90
AS8-90	5.5		135	132	127	124	122	116	108	101
AS8-100	5.5		150	147	142	137	135	128	121	112
AS8-110-1	5.5		160	156	151	147	144	136	128	119
AS8-110	7.5		165	161	156	151	149	141	133	124
AS8-120	7.5		180	176	170	165	162	154	145	135
AS8-130	7.5		195	191	184	179	176	167	157	146
AS8-140-1	7.5		201	196	190	185	180	171	160	149
AS8-140	11		210	205	198	193	189	180	169	157
AS8-150	11		224	220	212	206	203	193	181	168
AS8-160	11		239	235	226	220	216	205	193	180
AS8-170	11		254	249	241	234	230	218	205	191
AS8-180	11		269	264	255	248	244	231	217	202
AS8-190	15	284	279	269	262	257	244	229	213	
AS8-200	15	299	294	283	276	271	257	241	224	
AS8-210	15	314	309	297	287	284	270	253	235	
AS8-220	15	329	324	311	300	297	283	265	246	

Performance Curves



Installation Drawing



Size & Weight

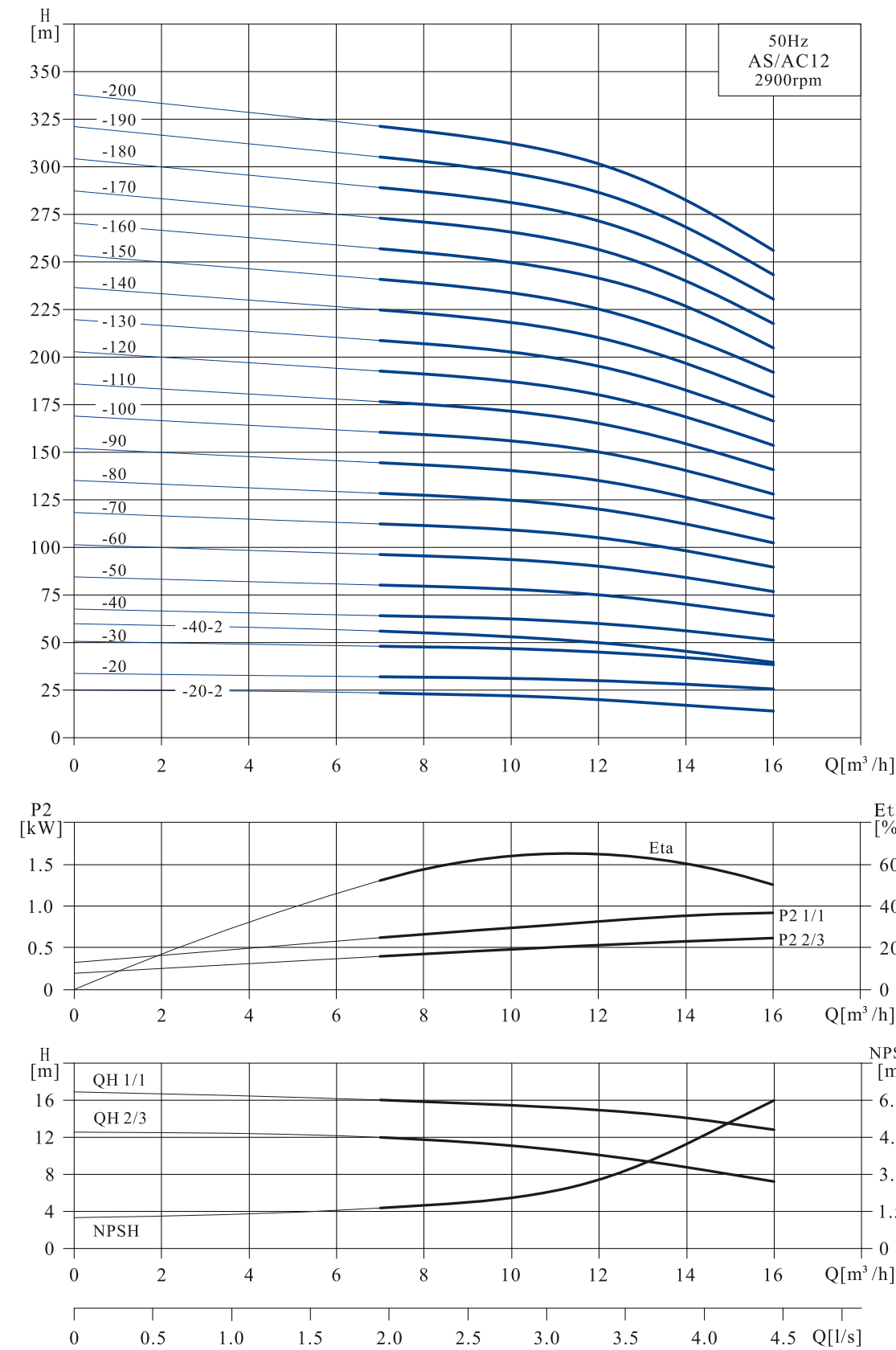
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS10-20-2	355	271	626	154	124	28
AS10-20	355	271	626	154	124	30
AS10-30	395	272	667	166	135	37
AS10-40	425	322	747	166	135	40
AS10-50-2	455	322	777	166	135	42
AS10-50	465	339	804	193	147	50
AS10-60	495	339	834	193	147	51
AS10-70	525	354	879	220	172	60
AS10-80	555	354	909	220	172	60
AS10-90	605	414	1019	259	192	80
AS10-100	635	414	1049	259	192	81
AS10-110	665	414	1079	259	192	82
AS10-120	695	414	1109	259	192	89
AS10-130	725	414	1139	259	192	90
AS10-140	755	414	1169	259	192	91
AS10-150	785	414	1199	259	192	100
AS10-160-1	815	414	1229	259	192	101
AS10-160	904	523	1427	311	235	164
AS10-170	934	523	1457	311	235	165
AS10-180	964	523	1487	311	235	166
AS10-190	994	523	1517	311	235	167
AS10-200	1024	523	1547	311	235	168
AS10-210	1054	523	1577	311	235	170
AS10-220	1084	523	1607	311	235	178
AS10-230	1114	523	1637	311	235	179
AS10-240	1144	523	1667	311	235	180
AS10-250	1174	523	1697	311	235	181

Note: For the same model, AC is 2.6 kg heavier than AS.

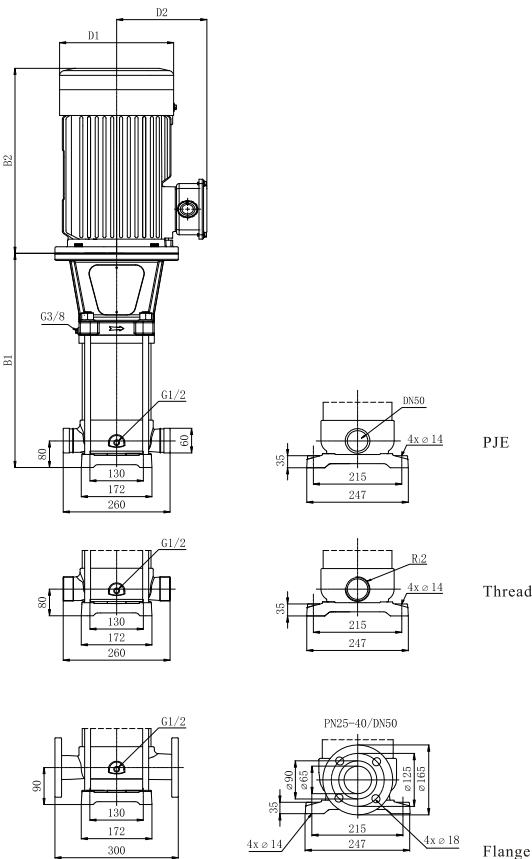
Performance Table

Model	Motor (kW)	Q (m³/h)	5	6	7	8	9	10	11	12	13
AS10-20-2	0.75	H (m)	18.5	17	16	14	13	12	10	8.5	7
AS10-20	1.1		28	27	26	25.5	25	24	23	22	20
AS10-30	1.5		41	40	39.5	38	37	35	34	32	30
AS10-40	2.2		55	53	52	51	49.5	48	46	43	40
AS10-50-2	2.2		61	59	58	56	54	51.5	49	47	43
AS10-50	3		68	67	66	64	62	60	57	54	50
AS10-60	3		82	79	78	77	74	72	69	65	60
AS10-70	4		96	93	92	90	87	84	80	75	70
AS10-80	4		109	107	105	103	99	96	91	86	80
AS10-90	5.5		123	120	118	115	111	108	103	97	90
AS10-100	5.5		137	134	131	128	124	120	114	108	100
AS10-110	5.5		150	147	144	141	136	132	126	118	110
AS10-120	7.5		164	160	157	154	149	144	137	129	120
AS10-130	7.5		177	174	170	167	161	156	149	140	130
AS10-140	7.5		191	187	183	179	173	168	160	151	140
AS10-150	7.5		205	200	197	192	186	180	171	162	150
AS10-160-1	7.5		214	208	205	199	192	186	176	166	153
AS10-160	11		218	214	210	205	198	192	183	172	160
AS10-170	11		232	227	223	218	210	204	194	183	170
AS10-180	11		246	240	236	231	223	216	206	194	180
AS10-190	11		259	254	249	244	235	228	217	205	190
AS10-200	11		273	267	262	256	248	240	229	215	200
AS10-210	11		287	280	275	269	260	252	240	226	210
AS10-220	15		300	294	288	282	272	264	251	237	220
AS10-230	15		309	305	301	297	290	280	266	249	230
AS10-240	15		322	319	314	309	302	292	278	260	240
AS10-250	15		335	332	327	322	314	304	289	271	250

Performance Curves



Installation Drawing



Size & Weight

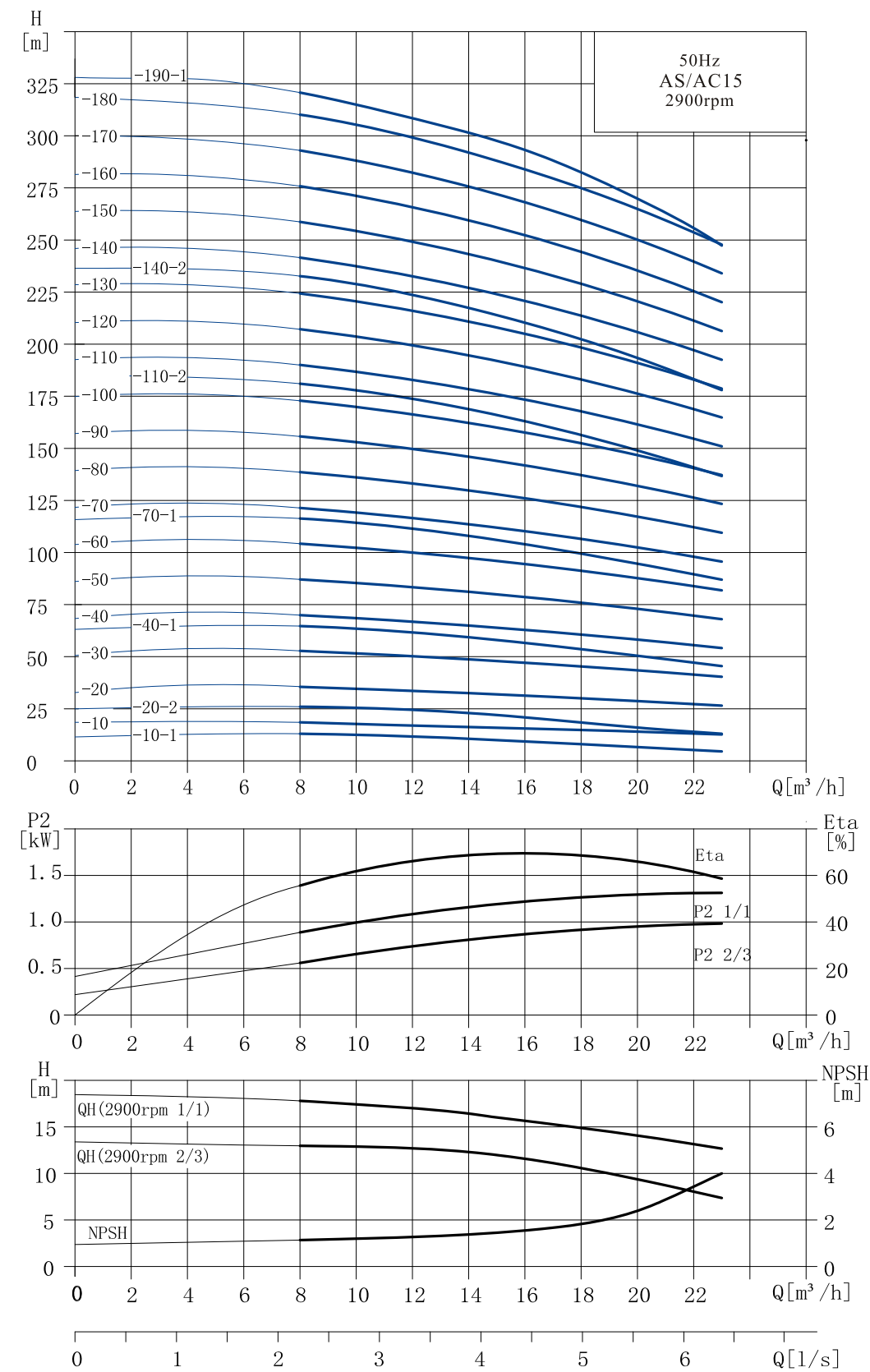
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS12-20-2	365	272	637	166	135	37
AS12-20	365	322	687	166	135	39
AS12-30	405	339	744	193	147	49
AS12-40-2	435	339	774	193	147	50
AS12-40	435	354	789	220	172	59
AS12-50	485	414	899	259	192	76
AS12-60	515	414	929	259	192	77
AS12-70	545	414	959	259	192	84
AS12-80	575	414	989	259	192	85
AS12-90	694	523	1217	311	235	156
AS12-100	724	523	1247	311	235	157
AS12-110	754	523	1277	311	235	158
AS12-120	784	523	1307	311	235	160
AS12-130	814	523	1337	311	235	168
AS12-140	844	523	1367	311	235	169
AS12-150	874	523	1397	311	235	170
AS12-160	904	523	1427	311	235	171
AS12-170	934	523	1457	311	235	169
AS12-180	964	578	1542	311	235	195
AS12-190	994	578	1572	311	235	195
AS12-200	1024	578	1602	311	235	197

Note: For the same model, AC is 2.6 kg heavier than AS.

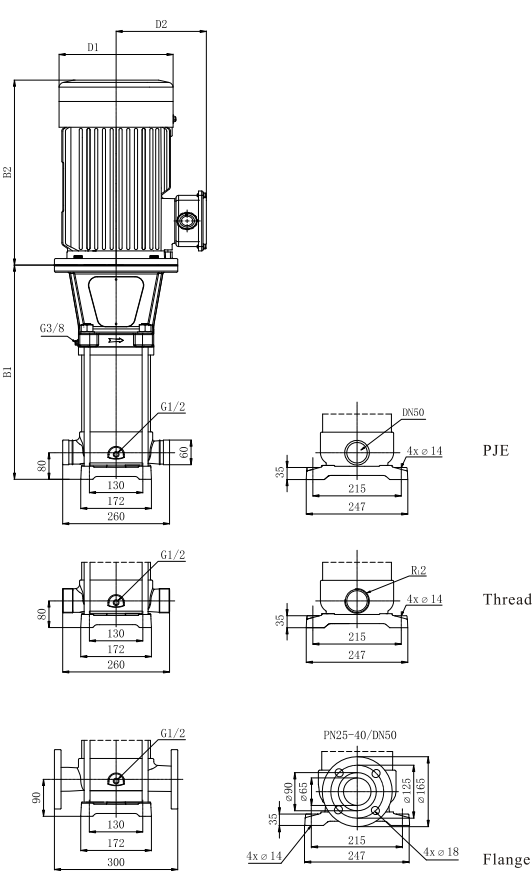
Performance Table

Model	Motor (kW)	Q (m³/h)	7	8	9	10	11	12	13	14	15	16
AS12-20-2	1.5	H (m)	24	23	23	22	21	20	19	17	16	14
AS12-20	2.2		32.5	32	31.5	31	30.5	30	29	28	27	26
AS12-30	3		48	47.5	47	46.5	46	45	44	42	41	38
AS12-40-2	3		56	55	54	53	52	50	48	45	43	40
AS12-40	4		64	63.5	63	62	61	60	59	56	54	51
AS12-50	5.5		80	79.5	79	78	77	75	74	71	68	64
AS12-60	5.5		96	95	94	93	92	90	88	85	81	77
AS12-70	7.5		112	111	110	109	107	105	103	99	95	90
AS12-80	7.5		128	127	126	124	122	120	118	113	108	102
AS12-90	11		144	143	141	140	138	135	132	127	122	115
AS12-100	11		160	159	157	155	153	150	147	141	135	128
AS12-110	11		176	175	173	171	168	165	162	155	149	141
AS12-120	11		192	191	188	186	184	180	176	169	162	154
AS12-130	15		208	207	204	202	199	195	191	183	176	166
AS12-140	15		224	223	220	217	214	210	206	197	189	179
AS12-150	15		240	239	236	233	230	225	221	212	203	192
AS12-160	15		256	254	251	248	245	240	235	226	216	205
AS12-170	15		272	270	267	264	260	255	250	240	230	217
AS12-180	18.5		288	286	283	279	276	270	265	254	243	230
AS12-190	18.5		304	302	298	295	291	285	279	268	257	243
AS12-200	18.5		320	318	314	310	306	300	294	282	270	256

Performance Curves



Installation Drawing



Size & Weight

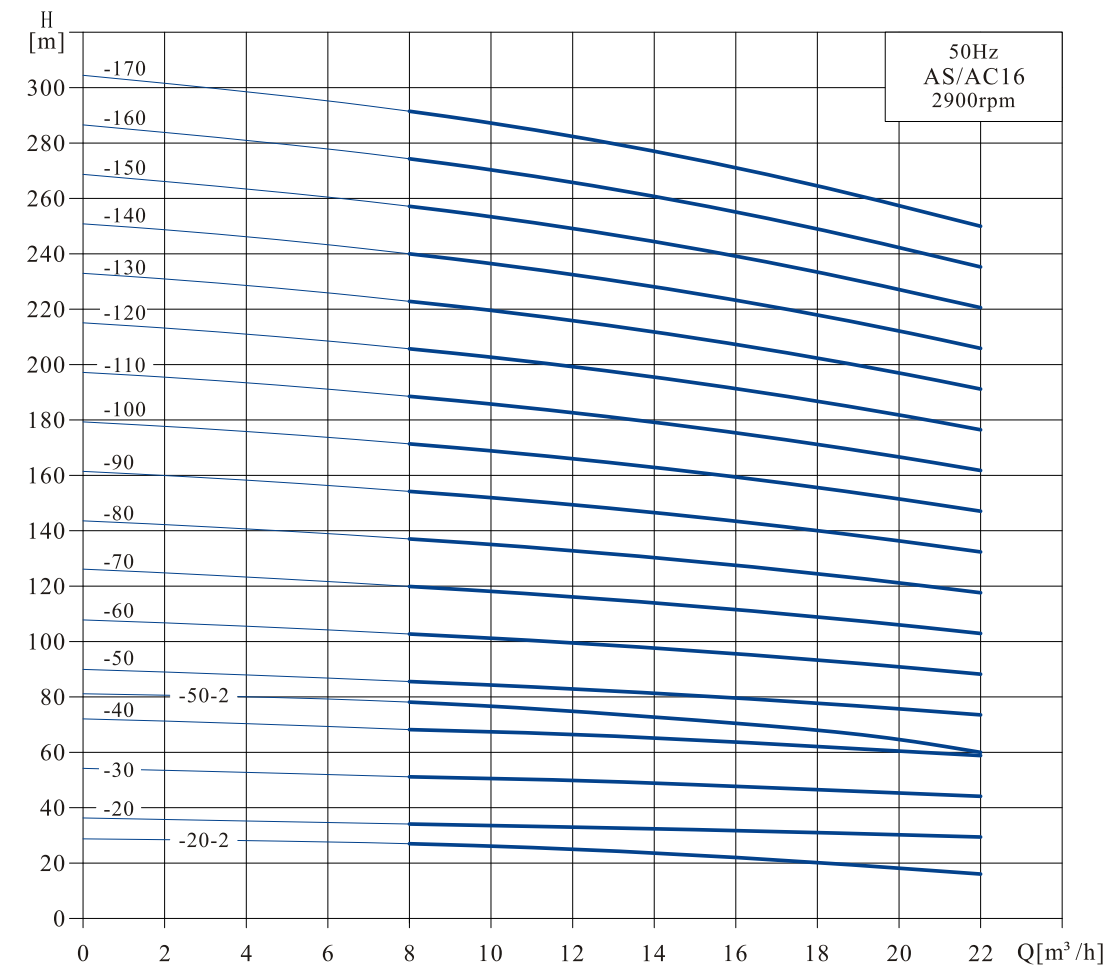
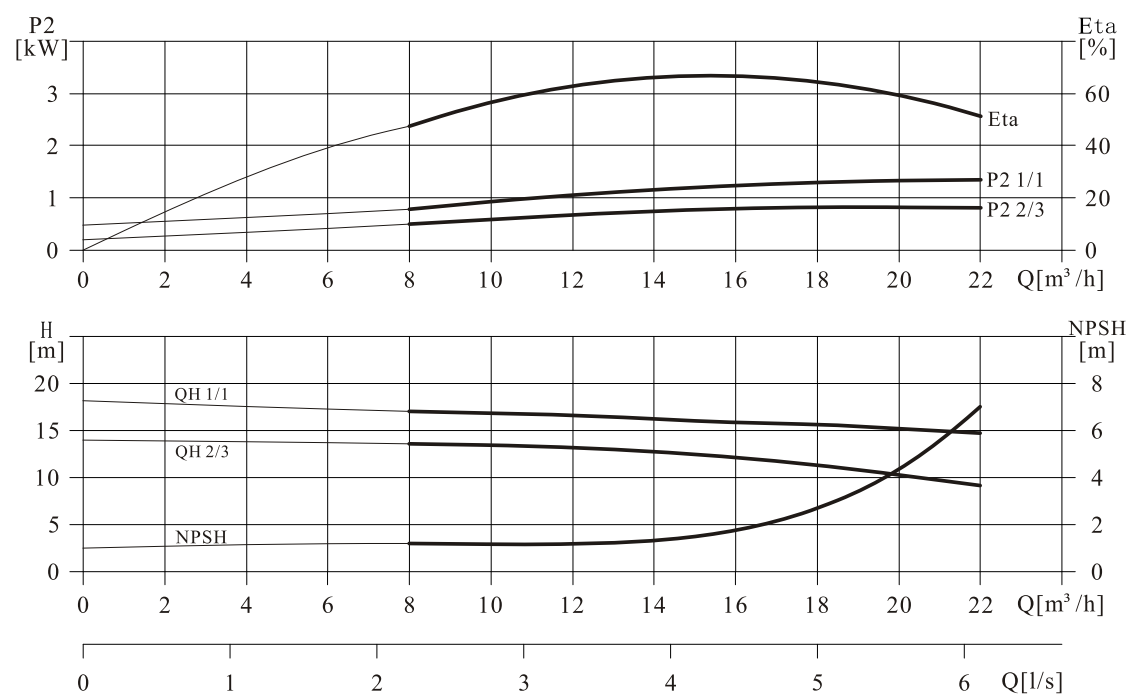
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS15-10-1	346	271	617	154	124	30
AS15-10	356	272	628	166	135	35
AS15-20-2	401	322	723	166	135	39
AS15-20	411	339	750	193	147	49
AS15-30	456	354	810	220	172	58
AS15-40-1	501	354	855	220	172	59
AS15-40	521	414	935	259	192	75
AS15-50	566	414	980	259	192	76
AS15-60	611	414	1025	259	192	83
AS15-70-1	656	414	1070	259	192	84
AS15-70	744	523	1267	311	235	155
AS15-80	789	523	1312	311	235	156
AS15-90	834	523	1357	311	235	157
AS15-100	879	523	1402	311	235	160
AS15-110-2	924	523	1447	311	235	161
AS15-110	924	523	1447	311	235	168
AS15-120	969	523	1492	311	235	169
AS15-130	1014	523	1537	311	235	170
AS15-140-2	1059	523	1582	311	235	171
AS15-140	1059	578	1637	311	235	193
AS15-150	1104	578	1682	311	235	194
AS15-160	1149	578	1727	311	235	195
AS15-170	1194	578	1772	311	235	229
AS15-180	1239	578	1817	311	235	230
AS15-190-1	1284	578	1862	311	235	231

Note: For the same model, AC is 2.8 kg heavier than AS.

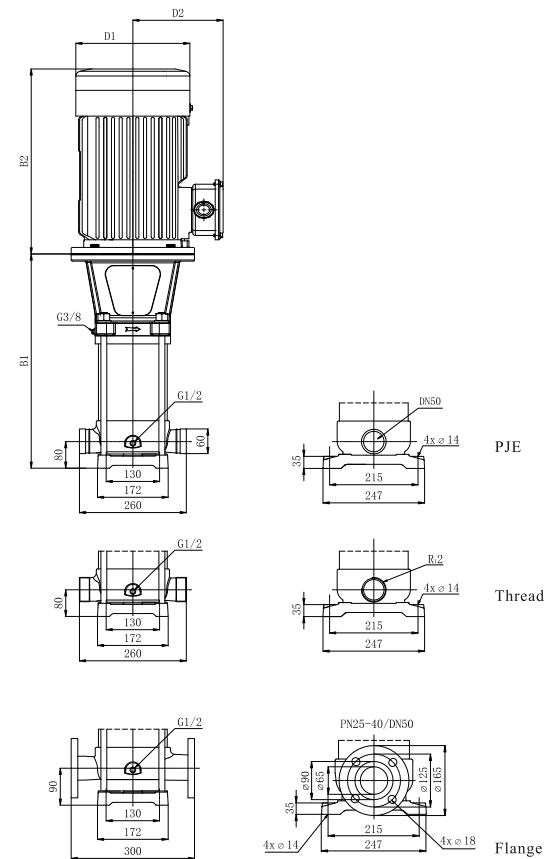
Performance Table

Model	Motor (kW)	Q (m³/h)	8	10	12	14	15	16	18	20	23
AS15-10-1	1.1	H (m)	13	12	11.5	10.5	10	9	7.5	6	4.5
AS15-10	1.5		17.5	17	16.6	16.3	16	15.5	15	14.5	14
AS15-20-2	2.2		26	25	24	23	22	20.5	18	16	13
AS15-20	3		34.5	34	33	32.5	32	31.5	30.5	29.5	28
AS15-30	4		52	51	50	49	48	47.5	46	44.5	41
AS15-40-1	4		65	63	61	59	58	57	54	51	46
AS15-40	5.5		69	68	66.5	65	64	63	61	59	55
AS15-50	5.5		86	85	83	81	80	79	77	74	69
AS15-60	7.5		103	102	100	98	96	95	92	89	83
AS15-70-1	7.5		116	114	111	108	106	104	99	95	87
AS15-70	11		121	119	116	114	112	111	107	104	96
AS15-80	11		138	136	133	130	128	127	122	118	110
AS15-90	11		155	153	149	146	144	143	138	133	124
AS15-100	11		172	170	166	163	160	158	153	148	138
AS15-110-2	11		181	178	173	169	166	163	156	149	137
AS15-110	15		190	187	183	179	176	174	168	163	151
AS15-120	15		207	204	199	195	192	190	184	177	165
AS15-130	15		224	221	216	212	208	206	199	192	179
AS15-140-2	15		233	229	223	218	214	211	202	193	178
AS15-140	18.5		241	238	232	228	224	222	214	207	193
AS15-150	18.5		258	255	249	244	240	238	230	222	206
AS15-160	18.5		276	272	266	260	256	253	245	237	220
AS15-170	22		293	288	282	277	272	269	260	251	234
AS15-180	22		310	305	299	293	288	285	275	266	248
AS15-190-1	22		321	315	309	302	298	293	283	270	247

Performance Curves



Installation Drawing



Size & Weight

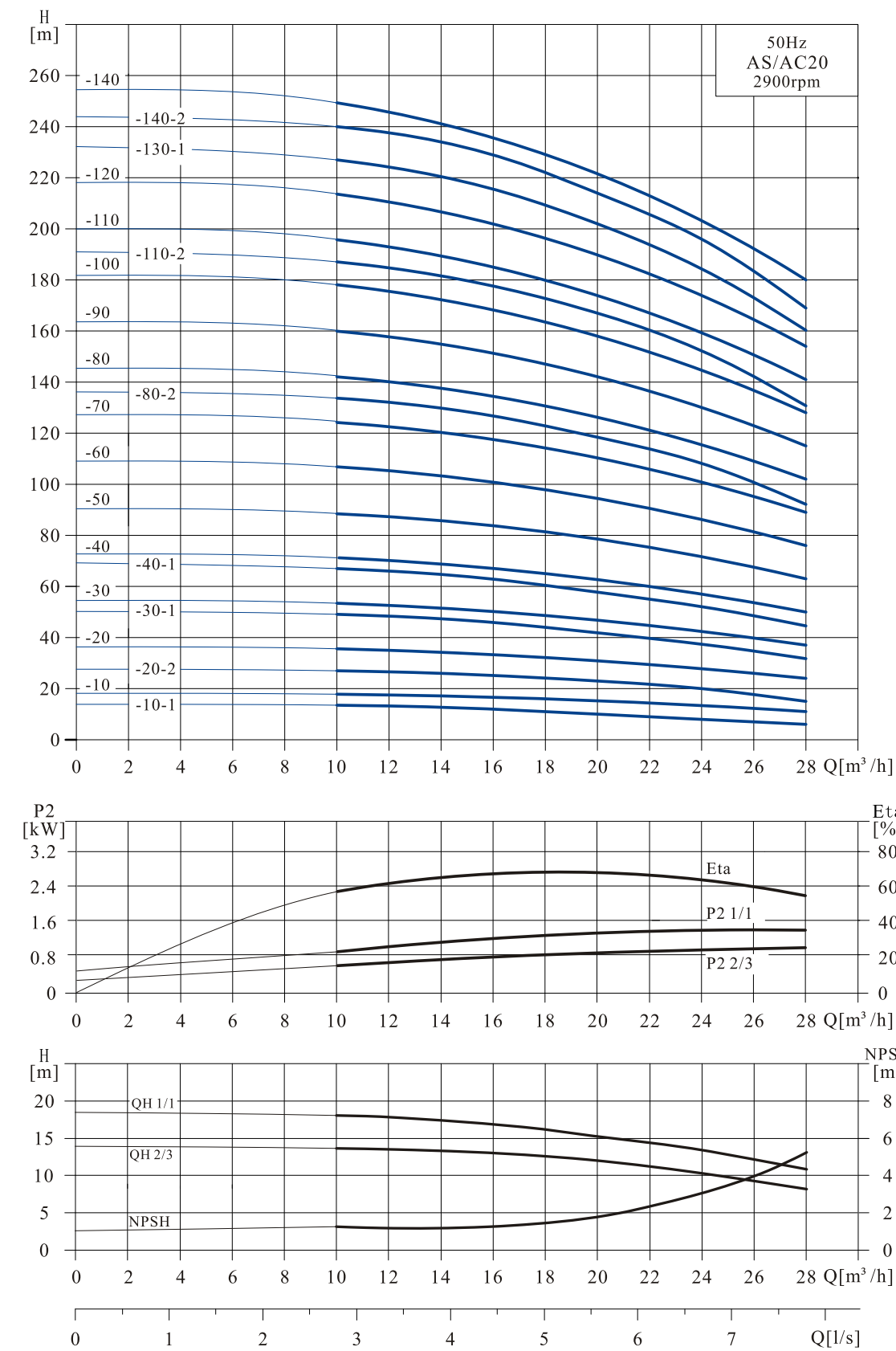
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS16-20-2	401	322	723	166	135	39
AS16-20	411	339	750	193	147	49
AS16-30	456	354	810	220	172	58
AS16-40	521	414	935	259	192	75
AS16-50-2	566	414	980	259	192	76
AS16-50	566	414	980	259	192	82
AS16-60	611	414	1025	259	192	83
AS16-70	745	523	1268	311	235	156
AS16-80	790	523	1313	311	235	156
AS16-90	835	523	1358	311	235	157
AS16-100	880	523	1403	311	235	165
AS16-110	925	523	1448	311	235	166
AS16-120	970	523	1493	311	235	168
AS16-130	1015	578	1593	311	235	191
AS16-140	1060	578	1638	311	235	192
AS16-150	1105	578	1683	311	235	225
AS16-160	1150	578	1728	311	235	226
AS16-170	1195	578	1773	311	235	228

Note: For the same model, AC is 2.8 kg heavier than AS.

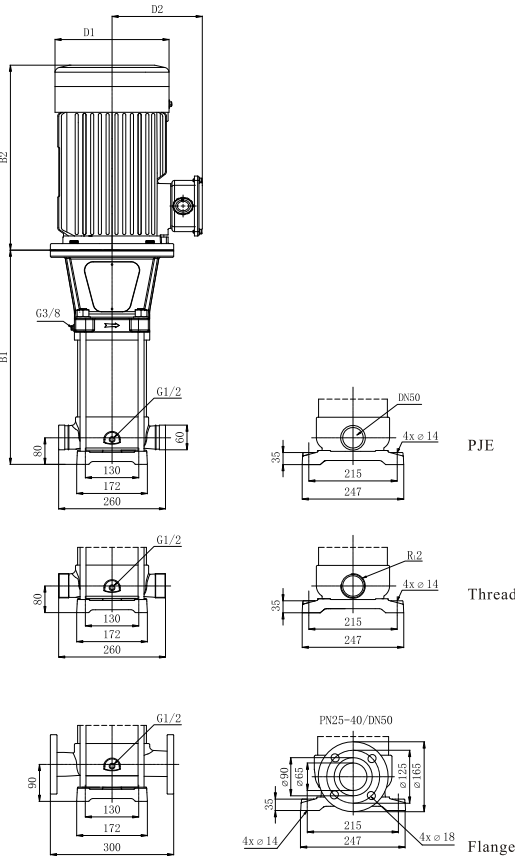
Performance Table

Model	Motor (kW)	Q (m³/h)	8	10	12	14	16	18	20	22
AS16-20-2	2.2	H (m)	27	26	25	24	22	21	19	16
AS16-20	3		34	33.5	33	32.5	32	31	30	29
AS16-30	4		51	50.5	50	48.5	48	47	46	44
AS16-40	5.5		68	67	66	64.5	63.5	63	61	59
AS16-50-2	5.5		78	77	75	73	70	68	65	60
AS16-50	7.5		85	84	83	81	79	78	76	74
AS16-60	7.5		102	101	100	97	95	94	91	88
AS16-70	11		119	118	116	113	110	109	106	103
AS16-80	11		136	135	133	129	126	125	122	118
AS16-90	11		153	152	149	145	142	141	137	132
AS16-100	15		170	168	166	161	158	156	152	147
AS16-110	15		187	185	183	178	173	172	167	162
AS16-120	15		204	202	199	194	189	188	183	176
AS16-130	18.5		222	219	216	210	205	203	198	191
AS16-140	18.5		239	236	233	226	221	219	213	206
AS16-150	22		256	253	250	242	237	235	229	220
AS16-160	22		273	270	267	258	253	250	244	235
AS16-170	22		290	287	284	274	269	266	259	250

Performance Curves



Installation Drawing



Size & Weight

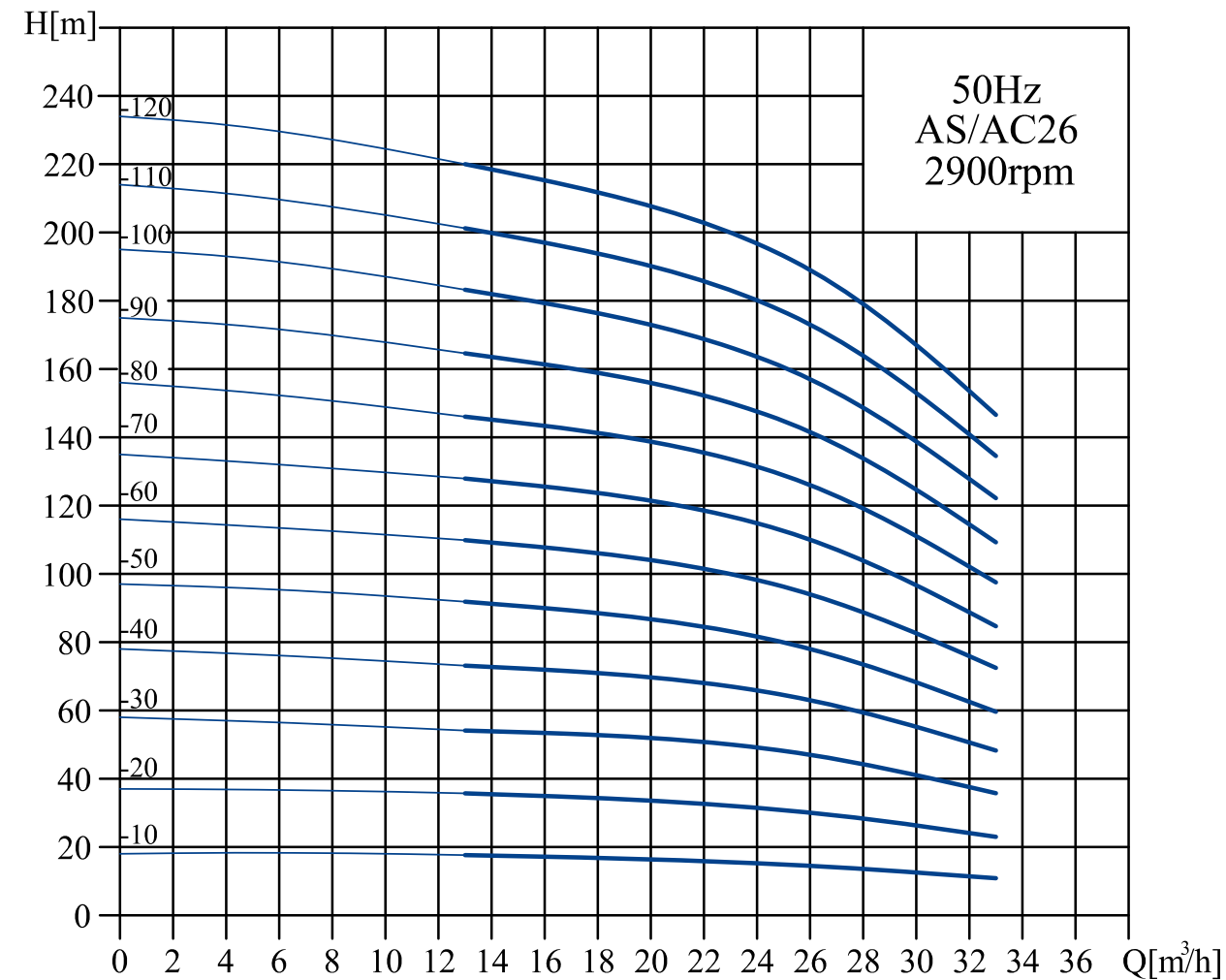
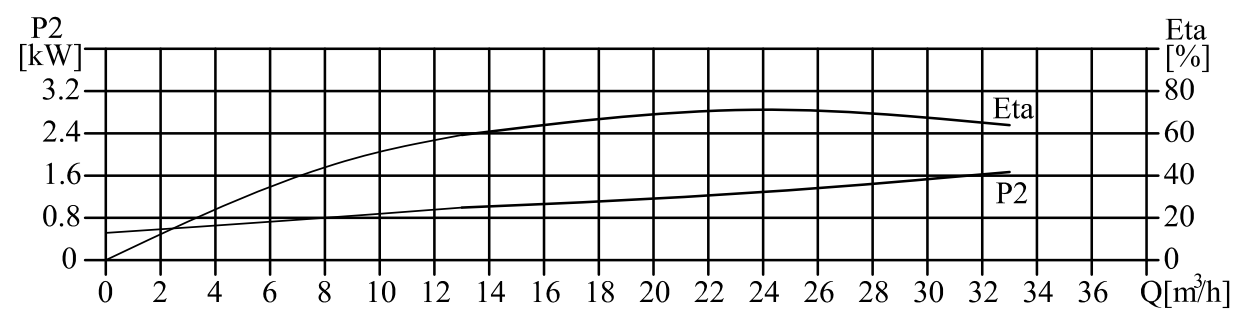
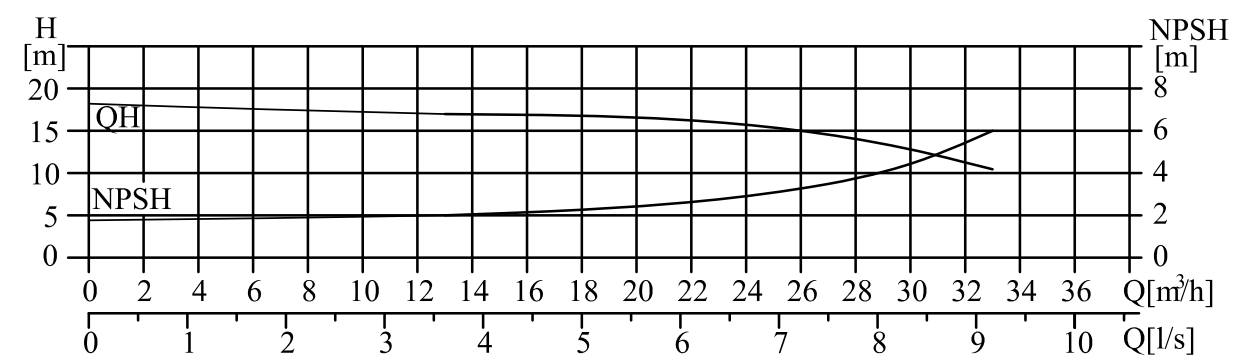
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS20-10-1	346	271	617	154	124	31
AS20-10	356	272	628	166	135	37
AS20-20-2	401	322	723	166	135	40
AS20-20	411	339	750	193	147	49
AS20-30-1	456	354	810	220	172	59
AS20-30	476	414	890	259	192	76
AS20-40-1	521	414	935	259	192	77
AS20-40	521	414	935	259	192	84
AS20-50	566	414	980	259	192	86
AS20-60	699	523	1222	311	235	157
AS20-70	744	523	1267	311	235	158
AS20-80-2	790	523	1313	311	235	159
AS20-80	790	523	1313	311	235	166
AS20-90	835	523	1358	311	235	168
AS20-100	880	523	1403	311	235	169
AS20-110-2	925	523	1448	311	235	170
AS20-110	925	578	1503	311	235	194
AS20-120	970	578	1548	311	235	195
AS20-130-1	1015	578	1593	311	235	196
AS20-140-2	1060	578	1638	311	235	230
AS20-140	1060	578	1638	311	235	231

Note: For the same model, AC is 2.8 kg heavier than AS.

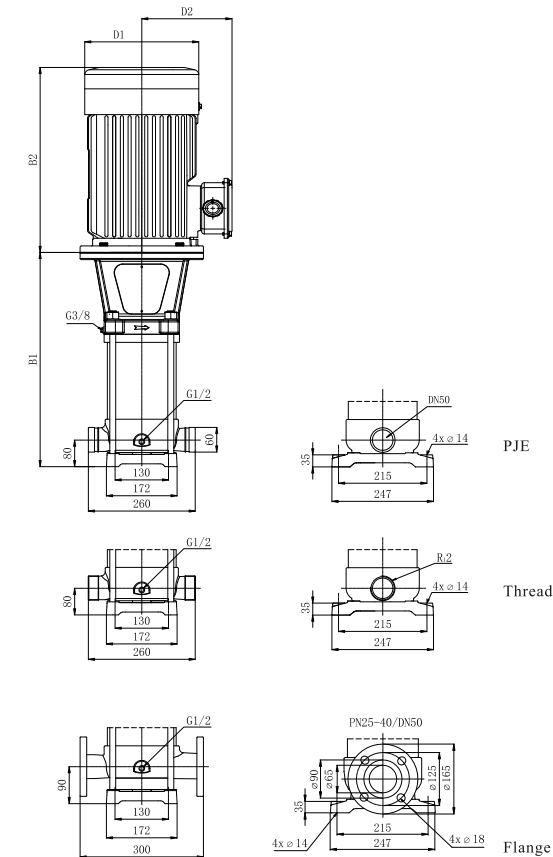
Performance Table

Model	Motor (kW)	Q (m³/h)	H (m)									
			10	12	14	16	18	20	22	24	26	28
AS20-10-1	1.1		13.5	13	12.5	12	11	10	9	8	7	6
AS20-10	1.5		18	17.5	17	16.5	16	15.5	15	14.5	14	13
AS20-20-2	2.2		27	26.5	26	25	24	23	22	20	18	15
AS20-20	3		36	35	34.5	34	33	32	31	29	28	26
AS20-30-1	4		49	48	47	46	44	42	40	37	35	32
AS20-30	5.5		53.5	53	52	51	49	48	46	44	41	39
AS20-40-1	5.5		67	66	64	63	60	58	55	52	48	45
AS20-40	7.5		71	70	69	68	66	64	62	59	55	51
AS20-50	7.5		89	88	86	85	82	80	77	74	69	64
AS20-60	11		107	105	104	102	98	95	92	88	83	77
AS20-70	11		125	123	121	119	115	111	108	103	96	90
AS20-80-2	11		134	132	130	127	122	118	114	108	101	92
AS20-80	15		142	140	138	136	131	127	123	118	110	103
AS20-90	15		160	158	155	153	148	143	138	132	124	116
AS20-100	15		178	176	173	170	164	159	154	147	138	129
AS20-110-2	15		187	185	181	178	172	167	160	152	142	131
AS20-110	18.5		196	193	190	187	180	175	169	162	151	141
AS20-120	18.5		213	211	207	204	197	191	185	176	165	154
AS20-130-1	18.5		227	224	220	216	208	202	194	184	172	160
AS20-140-2	22		240	237	233	229	221	214	207	196	183	169
AS20-140	22		249	246	242	237	230	223	215	206	193	180

Performance Curves



Installation Drawing



Size & Weight

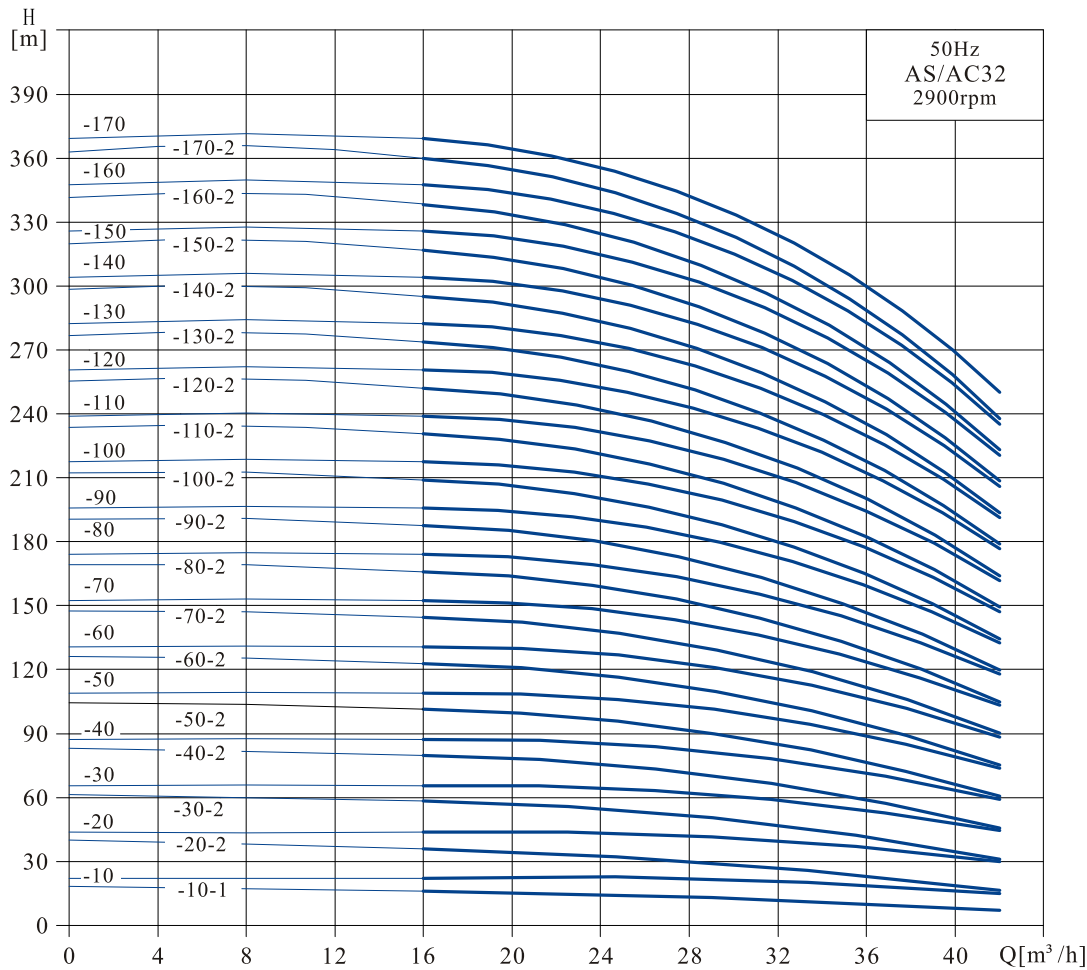
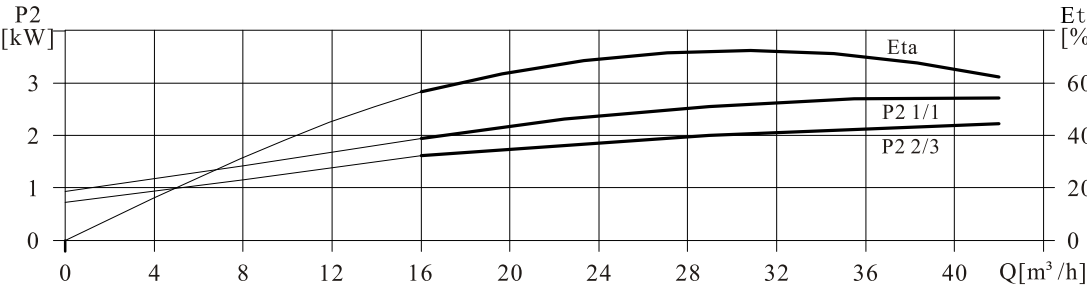
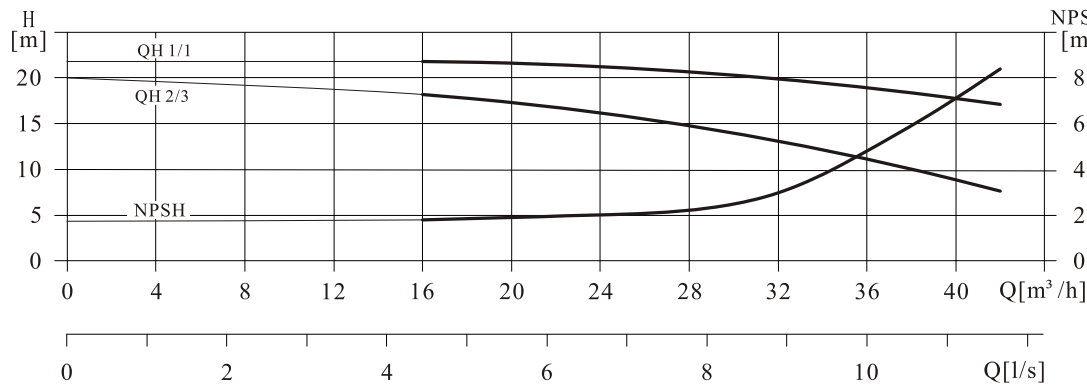
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS26-10	356	322	678	166	135	166
AS26-20	411	354	765	220	172	220
AS26-30	476	414	890	259	192	259
AS26-40	521	414	935	259	192	259
AS26-50	655	523	1178	311	235	311
AS26-60	700	523	1223	311	235	311
AS26-70	745	523	1268	311	235	311
AS26-80	790	523	1313	311	235	311
AS26-90	835	523	1358	311	235	311
AS26-100	880	578	1458	311	235	311
AS26-110	925	578	1503	311	235	311
AS26-120	970	578	1548	311	235	311

Note: For the same model, AC is 2.8 kg heavier than AS.

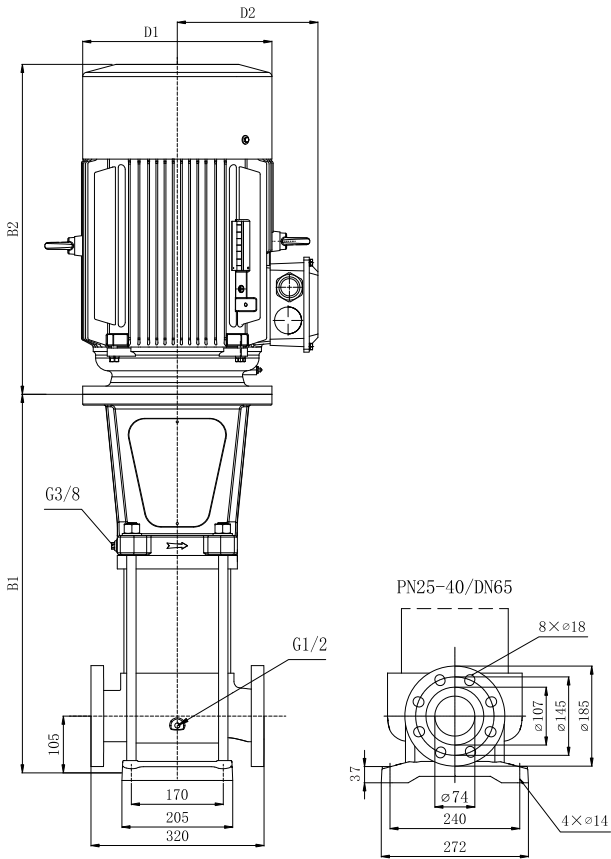
Performance Table

Model	Motor (kW)	Q (m³/h)	13	16	18	20	22	24	26	28	30	32	33
AS26-10	2.2	H (m)	18	17	16.6	16.2	16.8	16.3	14.5	14	13	11.4	10.5
AS26-20	4		36	35	34	33.3	32.5	31.4	30	28.3	26.3	24	23
AS26-30	5.5		54	53	52	51.5	50.5	49	47	44.5	41	38	36
AS26-40	7.5		73	71.7	70.5	69.5	67.5	65.5	63	59.5	55	51	48
AS26-50	11		92	90	88	86	84	81.5	78	73.5	69	63	60
AS26-60	11		110	107	105	103	101	98	94	89	83	76	73
AS26-70	15		128	125	123	121	118	114	110	104	97	89	85
AS26-80	15		146	143	141	138	135	131	126	119	112	102	97.5
AS26-90	15		164.5	161	158	156	151	147	141.5	134	126	114	109
AS26-100	18.5		183	179	176	173	168	163	157	149	139.5	128	122
AS26-110	18.5		201	197	193	189.5	185	180	173	164	154	141	135
AS26-120	22		220	215	211	208	202	196	189	179	168	154	147

Performance Curves



Installation Drawing



Size & Weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS32-10-1	444	322	766	166	135	47
AS32-10	454	339	793	193	147	56
AS32-20-2	524	354	878	220	172	66
AS32-20	530	414	944	259	192	82
AS32-30-2/AS32-30	600	414	1014	259	192	90
AS32-40-2/AS32-40	770	523	1293	311	235	164
AS32-50-2	840	523	1363	311	235	166
AS32-50	840	523	1363	311	235	173
AS32-60-2/AS32-60	910	523	1433	311	235	175
AS32-70-2/AS32-70	980	578	1558	311	235	199
AS32-80-2	1050	578	1628	311	235	201
AS32-80	1050	578	1628	311	235	235
AS32-90-2/AS32-90	1120	578	1698	311	235	237
AS32-100-2/AS32-100	1190	666	1856	397	305	311
AS32-110-2/AS32-110	1260	666	1926	397	305	313
AS32-120-2/AS32-120	1330	666	1996	397	305	315
AS32-130-2/AS32-130	1400	666	2066	397	305	331
AS32-140-2/AS32-140	1470	666	2136	397	305	333
AS32-150-2	1540	666	2206	397	305	335
AS32-150	1540	704	2244	442	324	406
AS32-160-2/AS32-160	1610	704	2314	442	324	408
AS32-170-2/AS32-170	1680	704	2384	442	324	410

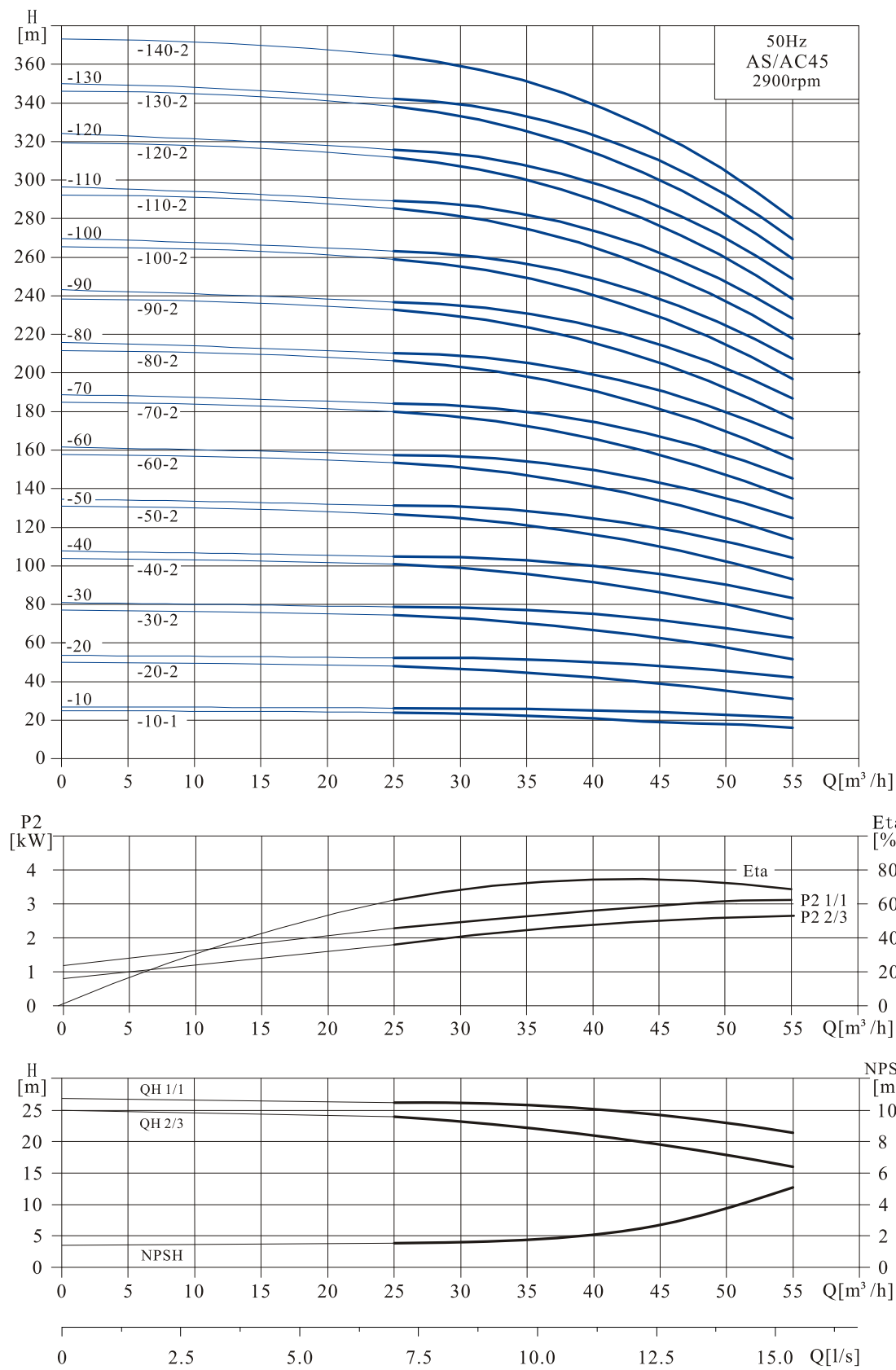
Note: For the same model, AC is 4.6 kg heavier than AS.

Performance Table

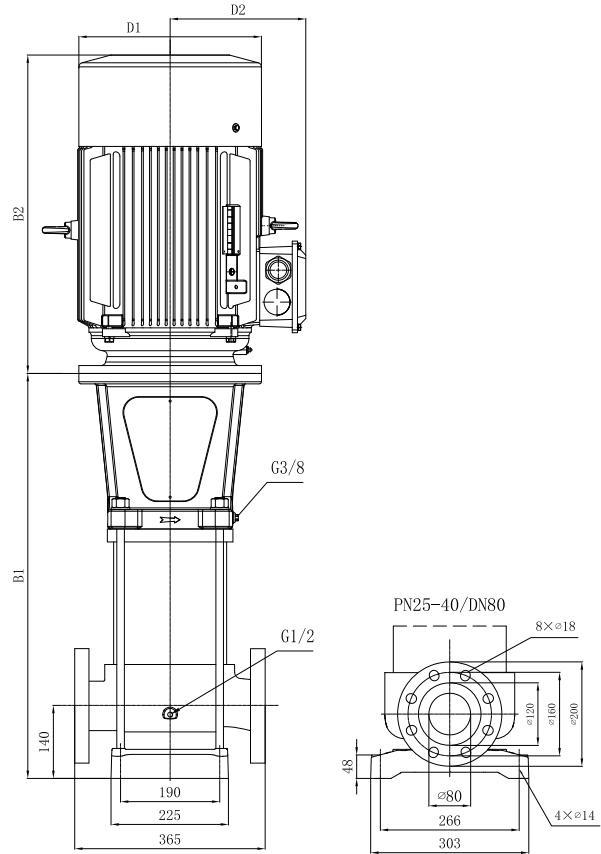
Model	Motor (kW)	Q (m³/h)	H (m)							
			16	20	24	28	32	36	40	42
AS32-10-1	2.2		18	17	15	14	13	11	8	7
AS32-10	3		22	21.5	21	20	19	18	16	15
AS32-20-2	4		36	34	32	29	27	23	18	17
AS32-20	5.5		43	42.5	42	40	38	35	32	29
AS32-30-2	7.5		58	55	53	49	46	41	34	31
AS32-30	7.5		65	64	63	61	57	53	48	44
AS32-40-2	11		79	77	74	69	65	58	50	46
AS32-40	11		86	85	83	81	77	71	63	59
AS32-50-2	11		101	98	95	90	84	76	66	61
AS32-50	15		108	107	104	101	96	88	79	74
AS32-60-2	15		122	119	115	110	104	94	81	75
AS32-60	15		129	128	125	121	115	106	95	88
AS32-70-2	18.5		144	141	136	130	123	111	97	90
AS32-70	18.5		151	149	146	141	134	124	111	103
AS32-80-2	18.5		165	162	157	150	142	129	113	105
AS32-80	22		172	171	167	162	153	142	127	118
AS32-90-2	22		187	183	178	170	161	147	129	120
AS32-90	22		194	192	188	182	172	159	143	133
AS32-100-2	30		208	205	199	191	180	165	145	134

Model	Motor (kW)	Q (m³/h)	H (m)							
			16	20	24	28	32	36	40	42
AS32-100	30		215	214	208	202	191	177	159	147
AS32-110-2	30		230	226	220	211	199	182	161	149
AS32-110	30		237	235	229	222	210	195	174	162
AS32-120-2	30		251	248	240	231	218	200	177	164
AS32-120	30		258	256	250	242	230	212	190	177
AS32-130-2	37		273	269	261	251	237	218	192	179
AS32-130	37		280	278	271	263	249	230	206	192
AS32-140-2	37		294	290	282	271	257	235	208	193
AS32-140	37		301	299	292	283	268	248	222	206
AS32-150-2	37		316	312	303	292	276	253	224	208
AS32-150	45		323	320	313	303	287	265	238	221
AS32-160-2	45		337	333	324	312	295	271	240	223
AS32-160	45		345	342	333	323	306	283	254	236
AS32-170-2	45		359	354	345	332	314	288	256	238
AS32-170	45		366	363	354	343	325	301	270	251

Performance Curves



Installation Drawing



Size & Weight

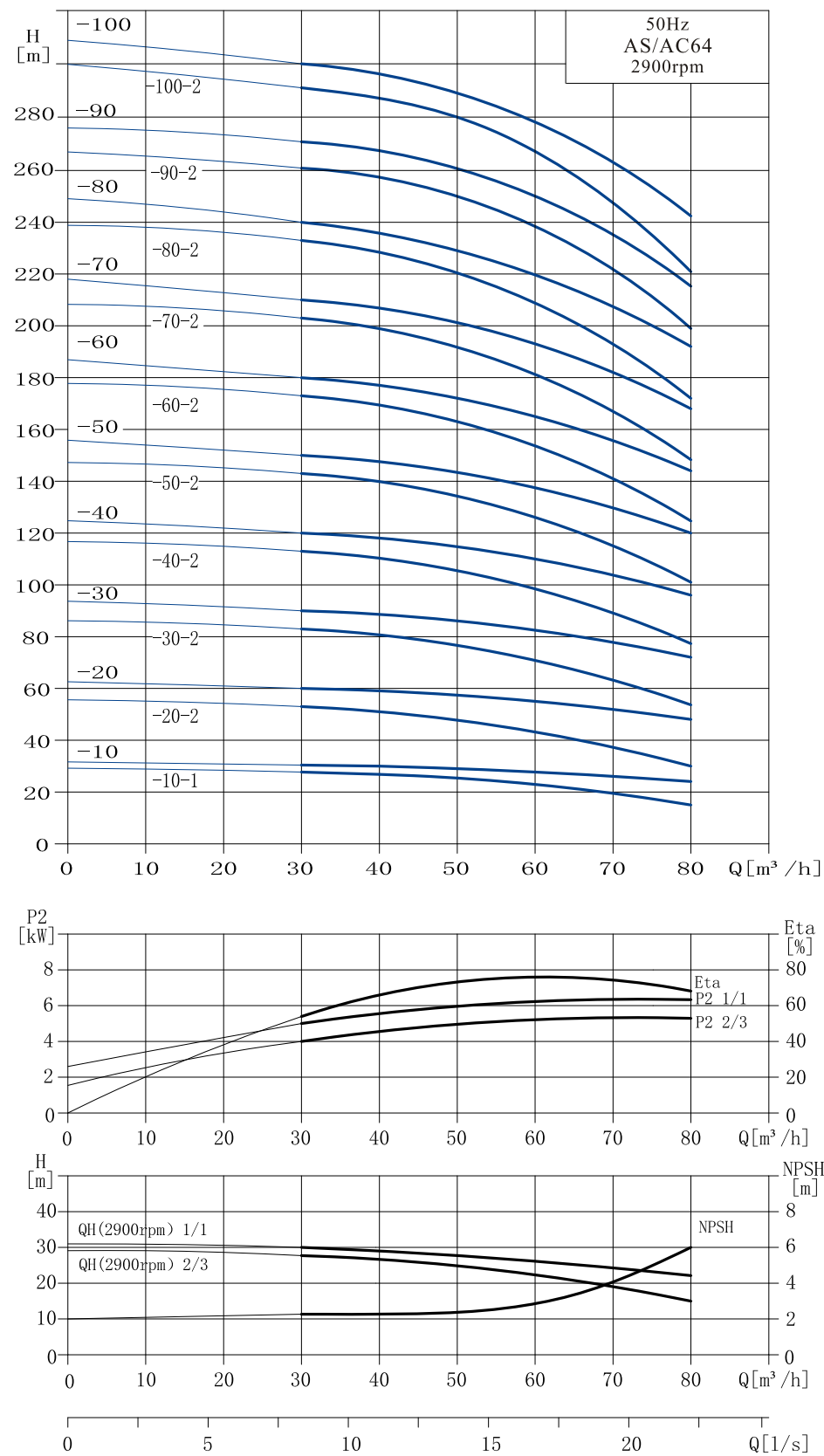
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS45-10-1	507	354	861	220	172	71
AS45-10	516	414	930	259	192	87
AS45-20-2	596	414	1010	259	192	96
AS45-20	696	523	1219	311	235	168
AS45-30-2	776	523	1299	311	235	171
AS45-30	776	523	1299	311	235	180
AS45-40-2	856	523	1379	311	235	183
AS45-40	856	578	1434	311	235	204
AS45-50-2	936	578	1514	311	235	207
AS45-50	936	578	1514	311	235	238
AS45-60-2	1016	666	1682	397	305	316
AS45-60	1016	666	1682	397	305	316
AS45-70-2	1096	666	1762	397	305	318
AS45-70	1096	666	1762	397	305	318
AS45-80-2	1176	666	1842	397	305	335
AS45-80	1176	666	1842	397	305	335
AS45-90-2	1256	666	1922	442	324	338
AS45-90	1256	666	1922	442	324	338
AS45-100-2	1336	704	2040	442	324	411
AS45-100	1336	704	2040	442	324	412
AS45-110-2	1416	704	2120	484	365	414
AS45-110	1416	704	2120	484	365	414
AS45-120-2	1526	785	2311	484	365	521
AS45-120	1526	785	2311	484	365	521
AS45-130-2	1606	849	2455	548	388	523
AS45-130	1606	849	2455	548	388	523
AS45-140-2	1686	849	2535	548	388	526

Note: For the same model, AC is 6 kg heavier than AS.

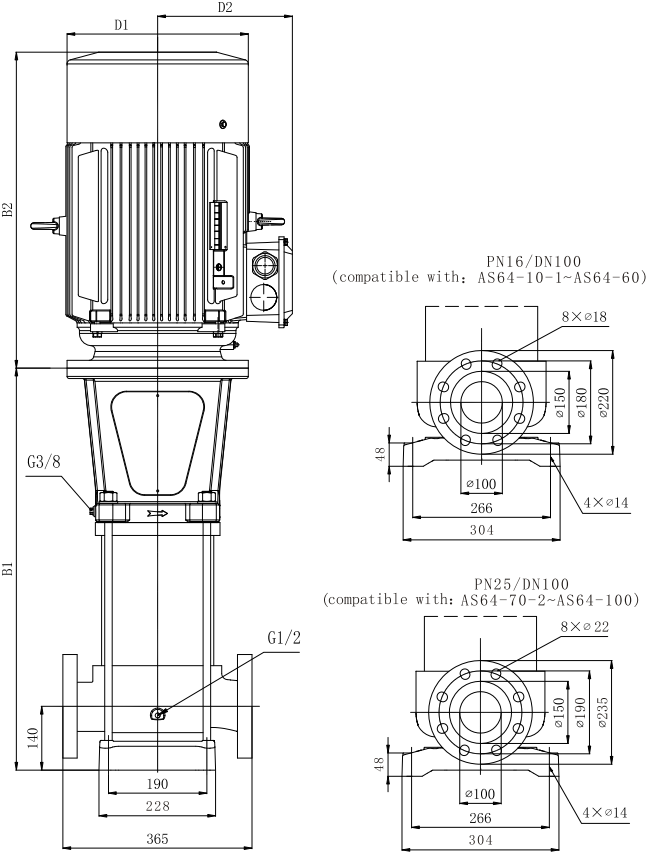
Performance Table

Model	Motor (kW)	Q (m³/h)	25	30	35	40	45	50	55
AS45-10-1	4	H (m)	24	23	22	21	19	18	16
AS45-10	5.5		26.5	26	25.5	25	23.5	22	21
AS45-20-2	7.5		48	46	44	42	39	35	31
AS45-20	11		53	52	51	49	48	45	41
AS45-30-2	11		74	72	69	67	63	57	52
AS45-30	15		79	78	76	74	71	67	62
AS45-40-2	15		101	98	95	91	87	80	72
AS45-40	18.5		105	104	102	99	95	90	83
AS45-50-2	18.5		127	124	120	116	110	102	93
AS45-50	22		132	130	127	124	119	112	104
AS45-60-2	30		153	150	146	141	134	125	114
AS45-60	30		158	156	153	148	143	134	124
AS45-70-2	30		180	176	171	166	158	147	135
AS45-70	30		184	182	178	173	166	157	145
AS45-80-2	37		206	202	197	190	182	169	155
AS45-80	37		210	208	204	198	190	179	166
AS45-90-2	37		232	228	222	215	205	192	176
AS45-90	37		237	234	229	222	214	202	186
AS45-100-2	45		258	254	248	240	229	214	197
AS45-100	45		263	260	255	247	238	224	207
AS45-110-2	45		285	280	273	264	253	237	217
AS45-110	45		289	285	280	272	261	246	228
AS45-120-2	55		311	306	299	289	277	259	238
AS45-120	55		316	311	305	296	285	269	248
AS45-130-2	55		337	331	324	314	300	281	259
AS45-130	55		342	337	331	321	309	291	269
AS45-140-2	55		364	357	349	338	324	304	279

Performance Curves



Installation Drawing



Size & Weight

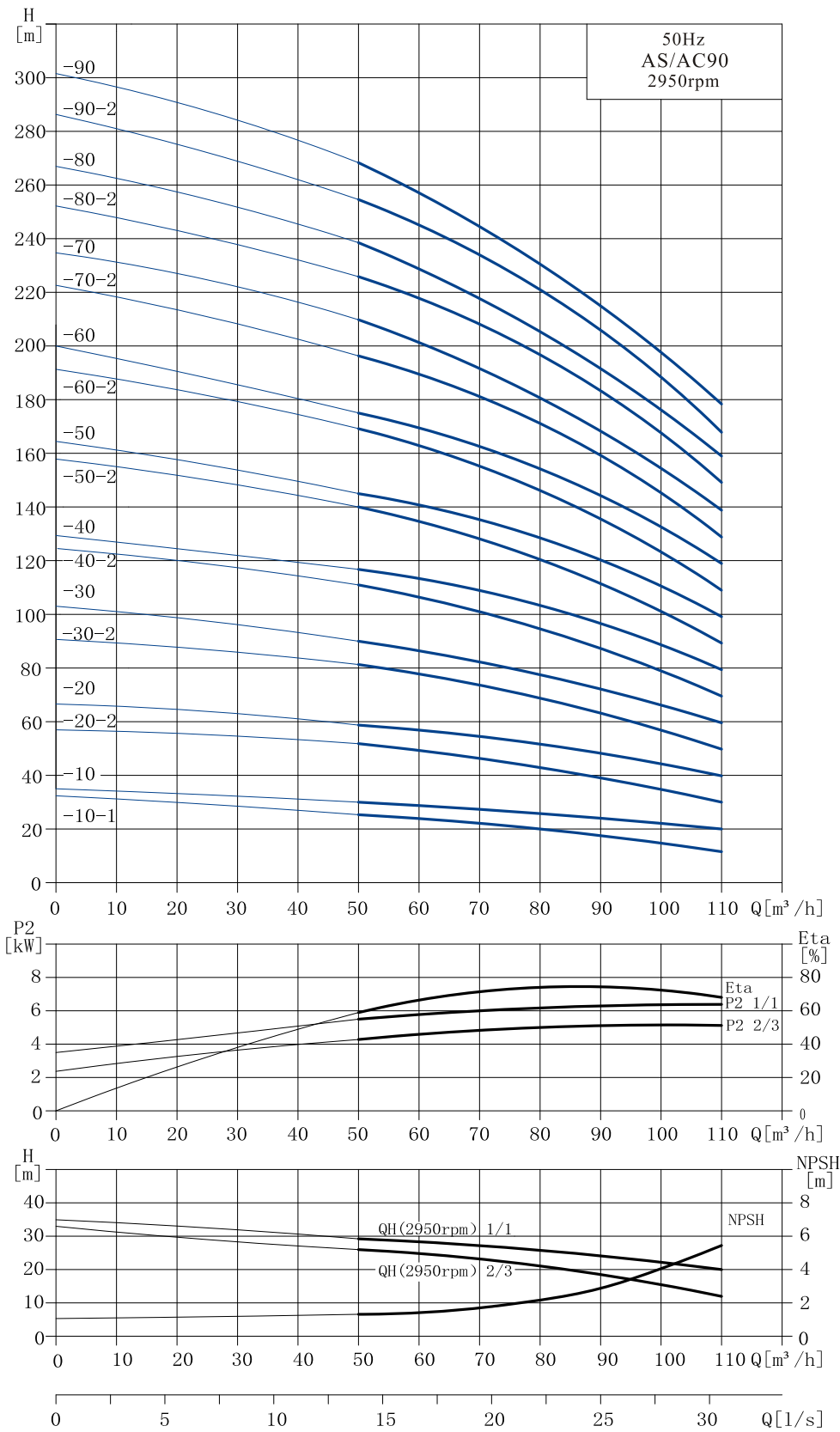
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS64-10-1	519	414	933	259	192	89
AS64-10	519	414	933	259	192	98
AS64-20-2	702	523	1225	311	235	171
AS64-20	702	523	1225	311	235	178
AS64-30-2	785	578	1363	311	235	203
AS64-30	785	578	1363	311	235	237
AS64-40-2	868	666	1534	397	305	312
AS64-40	868	666	1534	397	305	312
AS64-50-2	951	666	1617	397	305	329
AS64-50	951	666	1617	397	305	329
AS64-60-2	1034	704	1738	442	324	403
AS64-60	1034	704	1738	442	324	403
AS64-70-2	1147	785	1932	484	365	510
AS64-70	1147	785	1932	484	365	510
AS64-80-2	1230	785	2015	484	365	513
AS64-80	1230	785	2015	484	365	513
AS64-90-2	1313	849	2162	548	388	630
AS64-90	1313	849	2162	548	388	630
AS64-100-2	1396	849	2245	548	388	633
AS64-100	1396	849	2245	548	388	633

Note: For the same model, AC is 6.5 kg heavier than AS.

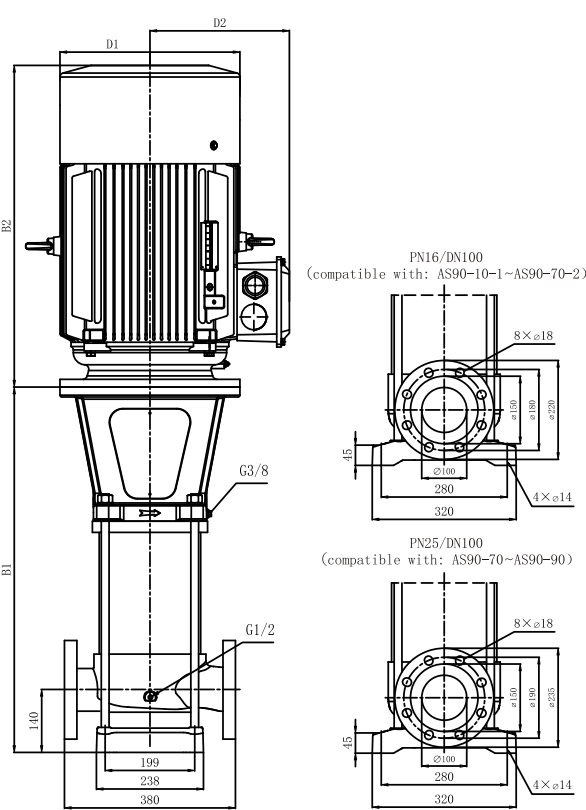
Performance Table

Model	Motor (kW)	Q (m³/h)	30	40	50	60	64	70	80
AS64-10-1	5.5	H (m)	27	25	23	21	20	18	15
AS64-10	7.5		30	29.5	29	28	27	26	24
AS64-20-2	11		53	51	47	43	41	37	30
AS64-20	15		60	59	58	55	54	52	48
AS64-30-2	18.5		83	81	76	71	68	63	54
AS64-30	22		90	89	86	83	81	78	72
AS64-40-2	30		113	110	105	98	95	89	78
AS64-40	30		128	124	119	114	111	108	102
AS64-50-2	37		143	140	133	126	122	115	102
AS64-50	37		160	155	149	143	140	135	128
AS64-60-2	45		173	170	162	153	149	141	126
AS64-60	45		180	178	173	165	162	156	144
AS64-70-2	55		203	199	191	181	176	167	150
AS64-70	55		210	207	201	193	189	182	168
AS64-80-2	55		233	229	220	208	203	193	174
AS64-80	55		240	237	230	220	216	208	192
AS64-90-2	75		261	258	250	239	233	222	199
AS64-90	75		271	268	261	250	245	235	216
AS64-100-2	75		292	288	280	268	260	248	221
AS64-100	75		301	298	291	279	272	261	240

Performance Curves



Installation Drawing



Size & Weight

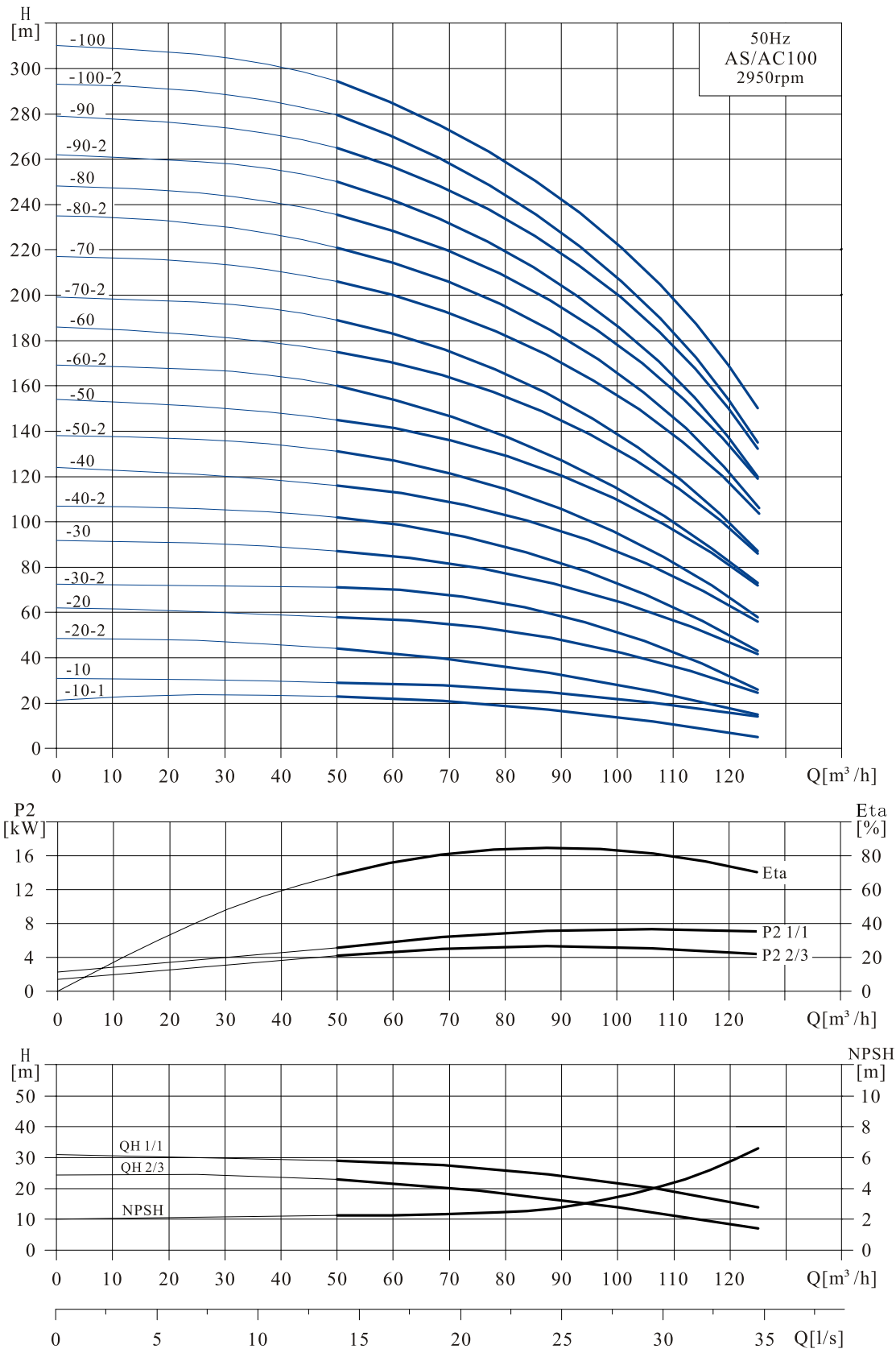
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS90-10-1	598	414	1012	259	192	103
AS90-10	628	523	1151	311	235	173
AS90-20-2	720	523	1243	311	235	183
AS90-20	720	578	1298	311	235	206
AS90-30-2	812	578	1390	311	235	242
AS90-30	812	666	1478	397	305	313
AS90-40-2	904	666	1570	397	305	316
AS90-40	904	666	1570	397	305	330
AS90-50-2	996	666	1662	397	305	333
AS90-50	996	704	1700	442	324	406
AS90-60-2	1088	704	1792	442	324	409
AS90-60	1118	785	1903	484	365	513
AS90-70-2	1210	785	1995	484	365	516
AS90-70	1302	849	2151	548	388	630
AS90-80-2	1394	849	2243	548	388	633
AS90-80	1486	849	2335	548	388	633
AS90-90-2	1578	849	2427	548	388	636
AS90-90	1670	849	2519	548	388	636

Note: For the same model, AC is 5.9 kg heavier than AS.

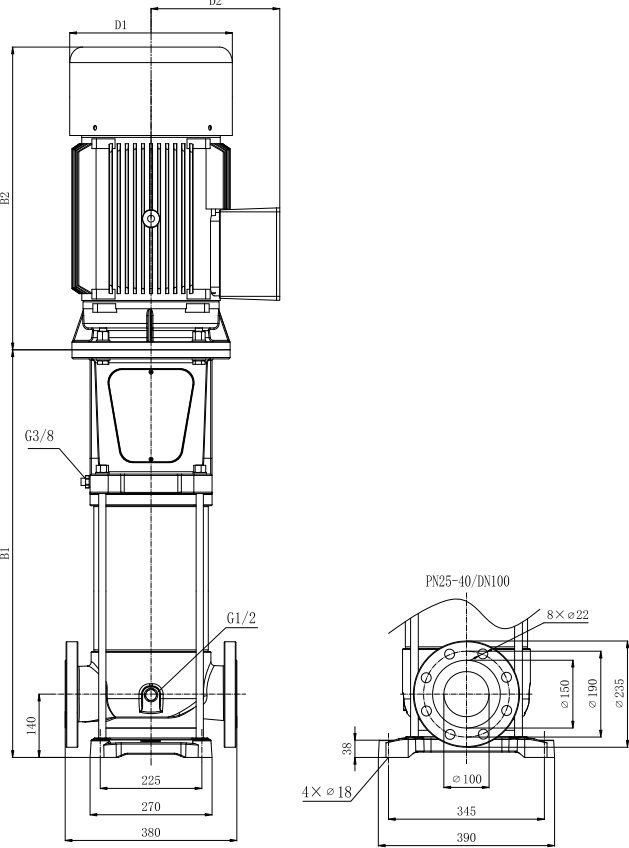
Performance Table

Model	Motor (kW)	Q (m³/h)	50	60	70	80	90	100	110
AS90-10-1	7.5	H (m)	26	23	22	20	18	15	12
AS90-10	11		30	29	27	26	24	22	20
AS90-20-2	15		53	50	47	44	40	36	30
AS90-20	18.5		59	58	55	51	48	44	39
AS90-30-2	22		82	78	74	70	64	58	50
AS90-30	30		90	86	82	77	72	66	59
AS90-40-2	30		112	106	102	95	88	80	69
AS90-40	37		118	115	109	103	96	88	79
AS90-50-2	37		140	135	129	121	112	102	89
AS90-50	45		145	142	137	128	120	110	98
AS90-60-2	45		169	162	156	147	136	124	109
AS90-60	55		175	173	164	154	144	132	118
AS90-70-2	55		197	190	184	172	160	146	128
AS90-70	75		209	201	191	181	167	153	138
AS90-80-2	75		226	217	208	197	183	166	148
AS90-80	75		238	228	217	205	191	175	158
AS90-90-2	75		255	246	235	222	206	188	167
AS90-90	75		268	257	244	230	214	196	177

Performance Curves



Installation Drawing



Size & Weight

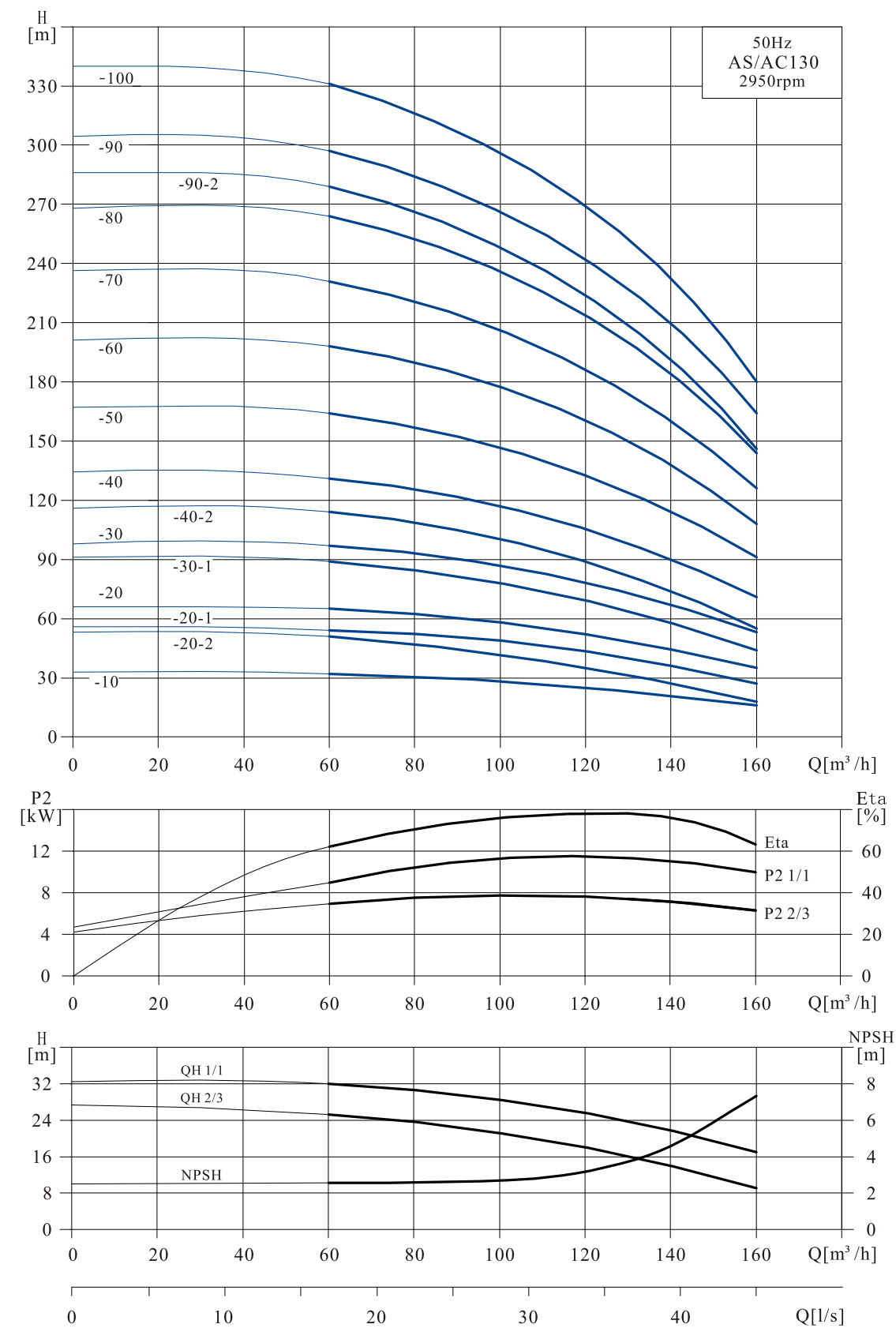
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS100-10-1	592	414	1006	259	192	95
AS100-10	592	414	1006	259	192	101
AS100-20-2	797	523	1320	311	235	178
AS100-20	797	523	1320	311	235	185
AS100-30-2	902	578	1480	311	235	213
AS100-30	902	578	1480	311	235	246
AS100-40-2	1007	666	1673	397	305	322
AS100-40	1007	666	1673	397	305	322
AS100-50-2	1112	666	1778	397	305	341
AS100-50	1112	666	1778	397	305	341
AS100-60-2	1217	704	1921	442	324	421
AS100-60	1217	704	1921	442	324	421
AS100-70-2	1352	785	2137	484	365	530
AS100-70	1352	785	2137	484	365	530
AS100-80-2	1457	785	2242	484	365	535
AS100-80	1457	849	2306	548	388	650
AS100-90-2	1562	849	2411	548	388	655
AS100-90	1562	849	2411	548	388	655
AS100-100-2	1667	849	2516	548	388	661
AS100-100	1667	849	2516	548	388	661

Note: For the same model, AC is 10 kg heavier than AS.

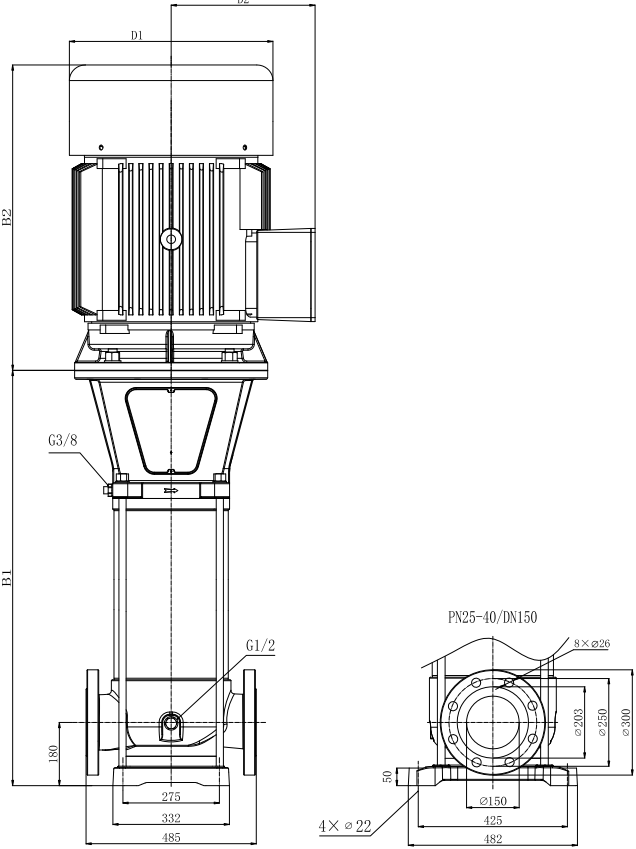
Performance Table

Model	Motor (kW)	Q (m³/h)	50	60	70	80	90	100	110	120	125
AS100-10-1	5.5	H (m)	23	22	20	18	16	14	11	8	7
AS100-10	7.5		29	28	27	26	24	22	18	16	14
AS100-20-2	11		44	43	41	38	34	28	23	17	15
AS100-20	15		58	56	54	52	49	43	37	31	28
AS100-30-2	18.5		71	68	66	62	57	52	42	31	26
AS100-30	22		87	84	81	78	73	65	56	48	43
AS100-40-2	30		102	99	95	90	83	71	60	48	43
AS100-40	30		116	113	109	104	97	87	76	64	58
AS100-50-2	37		131	127	122	116	107	93	79	65	58
AS100-50	37		145	141	136	130	122	109	96	80	72
AS100-60-2	45		160	156	150	142	131	115	99	81	73
AS100-60	45		175	170	164	157	146	132	115	96	89
AS100-70-2	55		189	184	177	168	156	137	119	97	87
AS100-70	55		206	202	193	183	172	156	138	114	105
AS100-80-2	55		221	215	207	197	182	165	142	115	103
AS100-80	75		235	231	221	209	197	178	158	130	120
AS100-90-2	75		250	245	234	221	206	184	161	131	120
AS100-90	75		265	260	248	235	221	201	177	147	135
AS100-100-2	75		279	274	262	247	231	206	181	147	135
AS100-100	75		294	289	279	261	246	223	197	163	150

Performance Curves



Installation Drawing



Size & Weight

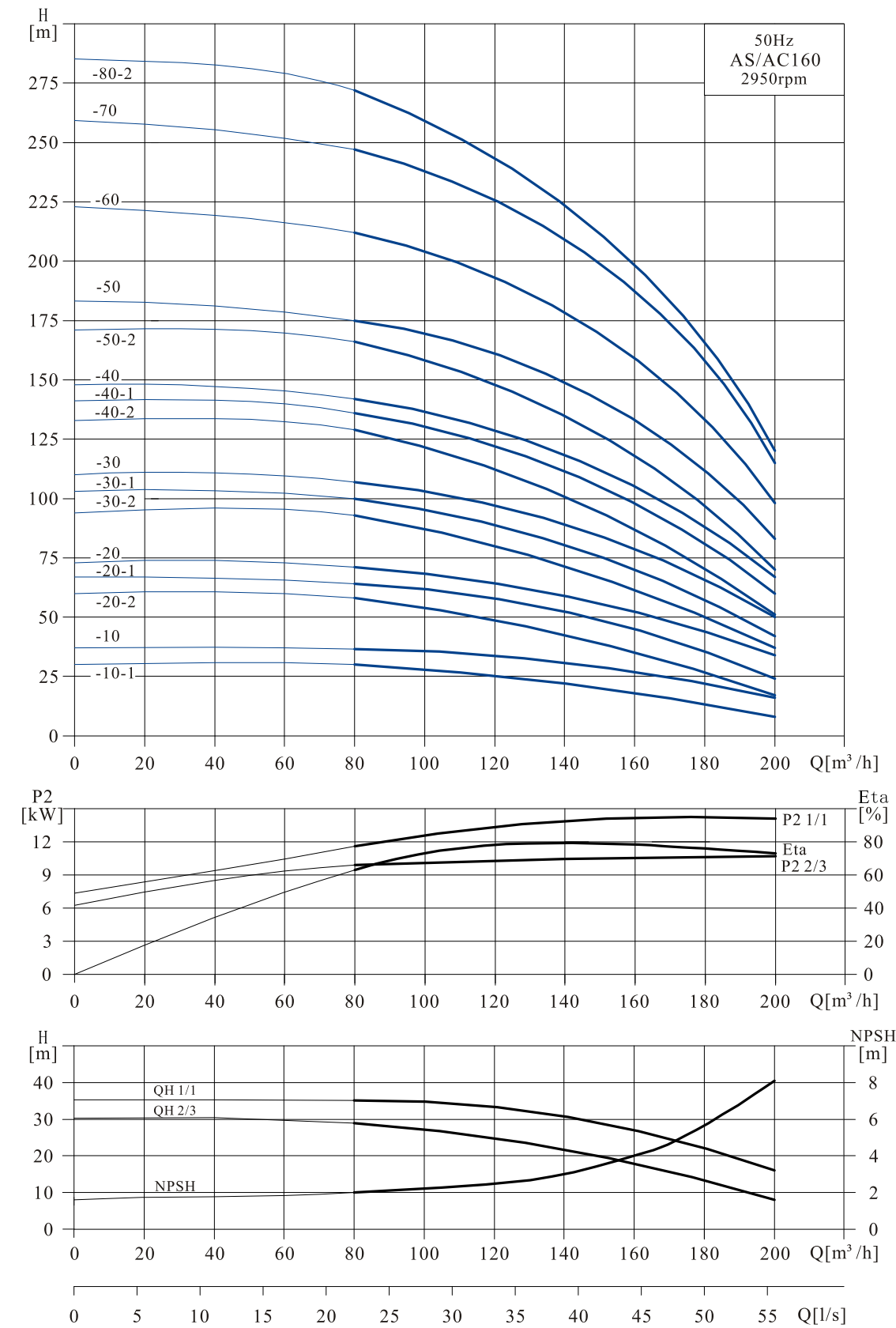
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS130-10	787	523	1310	311	235	206
AS130-20-2	909	523	1432	311	235	222
AS130-20-1	909	578	1487	311	235	244
AS130-20	909	578	1487	311	235	276
AS130-30-1	1031	666	1697	397	305	355
AS130-30	1031	666	1697	397	305	369
AS130-40-2	1153	666	1819	397	305	378
AS130-40	1153	704	1857	442	324	449
AS130-50	1305	785	2090	484	365	565
AS130-60	1427	849	2276	548	388	688
AS130-70	1549	849	2398	548	388	697
AS130-80	1671	900	2571	548	388	752
AS130-90-2	1793	900	2693	548	388	762
AS130-90	1793	1190	2983	630	525	1098
AS130-100	1915	1190	3105	630	525	1107

Note: For the same model, AC is 16.5 kg heavier than AS.

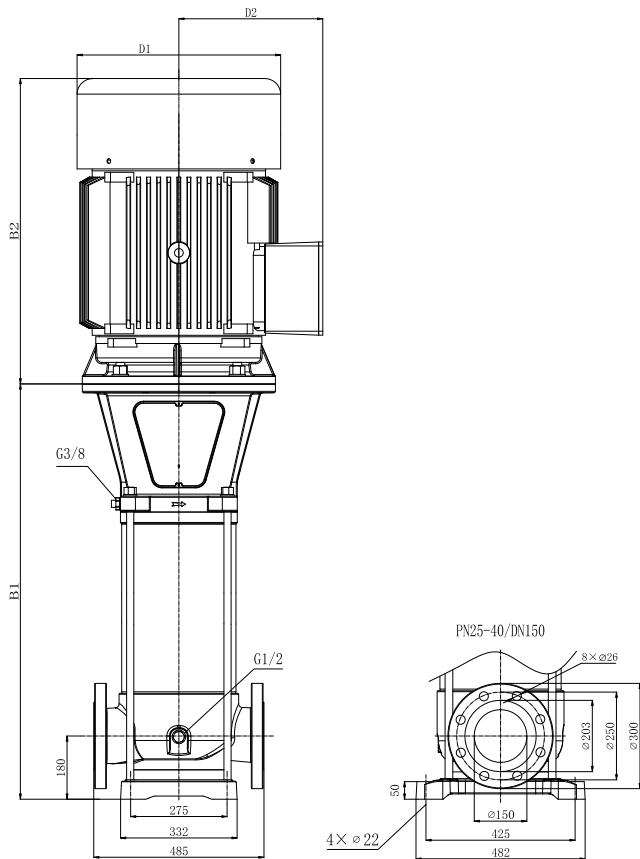
Performance Table

Model	Motor (kW)	Q (m³/h)	60	70	80	90	100	110	120	130	140	150	160
AS130-10	11	H (m)	32	31	30	29	28	27	25	23	22	20	17
AS130-20-2	15		51	48	46	43	40	37	34	31	27	23	18
AS130-20-1	18.5		54	52	51	50	49	47	45	40	35	31	27
AS130-20	22		65	64	62	60	58	56	52	48	44	40	35
AS130-30-1	30		89	87	85	82	78	74	70	64	58	51	44
AS130-30	37		97	96	94	91	87	83	77	73	67	61	53
AS130-40-2	37		114	111	108	104	98	94	89	81	74	64	55
AS130-40	45		131	129	125	121	117	113	105	97	89	82	71
AS130-50	55		164	162	158	152	147	142	133	124	114	103	91
AS130-60	75		198	196	189	182	178	170	161	150	137	122	108
AS130-70	75		231	227	222	218	209	199	187	174	159	144	126
AS130-80	90		264	260	254	248	238	228	213	200	182	164	144
AS130-90-2	90		279	274	269	261	250	239	224	208	188	168	146
AS130-90	110		297	293	287	279	268	257	243	227	207	187	164
AS130-100	110		331	325	318	311	298	284	270	250	230	207	182

Performance Curves



Installation Drawing



Size & Weight

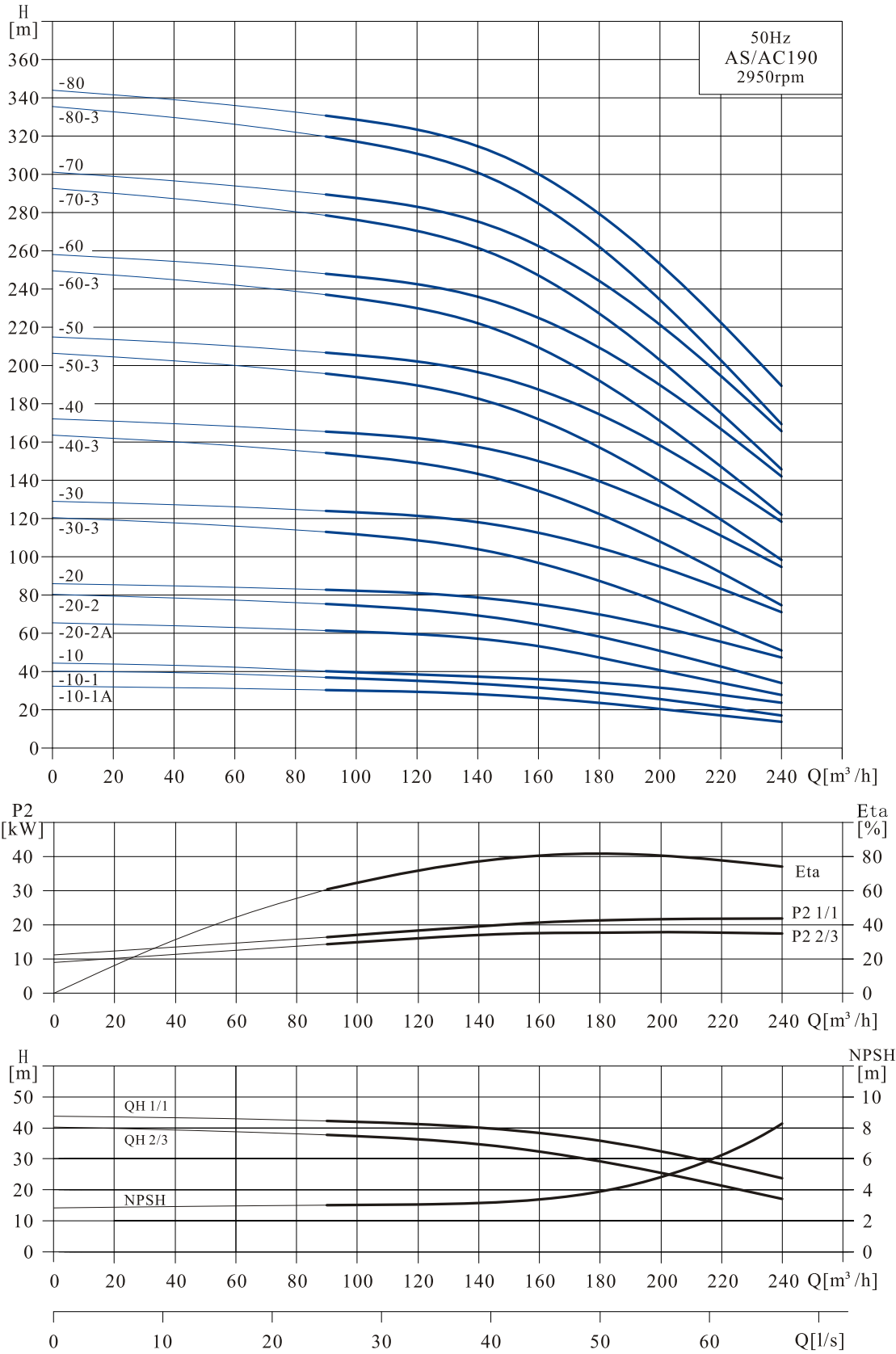
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS160-10-1	787	523	1310	311	235	206
AS160-10	787	523	1310	311	235	213
AS160-20-2	909	578	1487	311	235	276
AS160-20-1	909	666	1575	397	305	346
AS160-20	909	666	1575	397	305	346
AS160-30-2	1031	666	1697	397	305	369
AS160-30-1	1031	704	1735	442	324	441
AS160-30	1031	704	1735	442	324	441
AS160-40-2	1183	785	1968	484	365	561
AS160-40-1	1183	785	1968	484	365	561
AS160-40	1183	849	2032	548	388	675
AS160-50-2	1305	849	2154	548	388	680
AS160-50	1305	849	2154	548	388	680
AS160-60	1427	900	2327	548	388	736
AS160-70	1549	1190	2739	630	525	1081
AS160-80-2	1671	1190	2861	630	525	1090

Note: For the same model, AC is 16.5 kg heavier than AS.

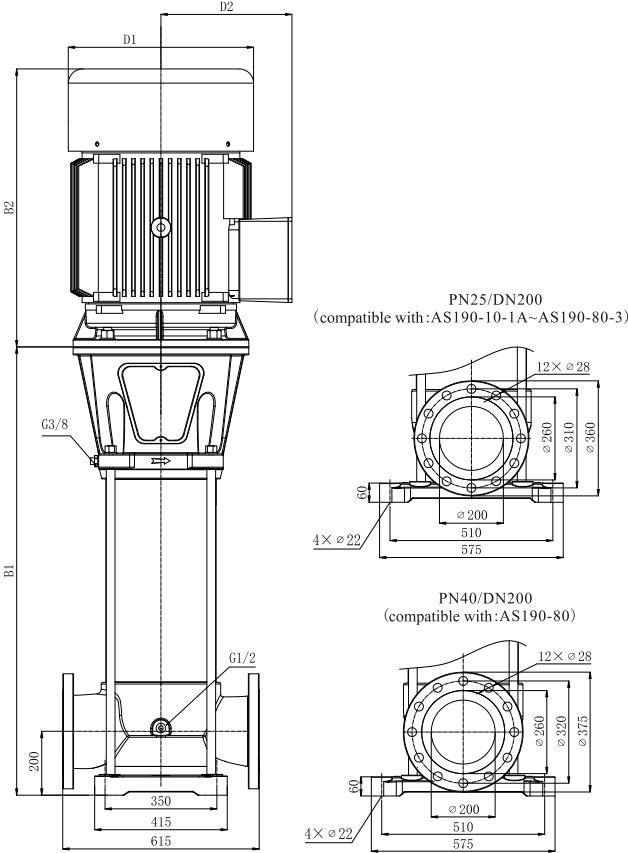
Performance Table

Model	Motor (kW)	Q (m³/h)	H (m)														
			80	90	100	110	120	130	140	150	160	170	180	190	200		
AS160-10-1	11		29	28	27	26	25	23	21	20	18	16	14	11	8		
AS160-10	15		35	34	33	32	31	30	29	28	27	24	21	19	16		
AS160-20-2	22		58	56	54	51	48	45	42	39	35	31	27	22	17		
AS160-20-1	30		64	62	60	58	56	53	50	48	45	40	35	30	24		
AS160-20	30		71	68	67	66	64	61	58	55	52	48	44	39	34		
AS160-30-2	37		93	91	89	85	81	77	72	67	61	55	49	43	37		
AS160-30-1	45		100	96	94	92	89	84	79	75	70	64	58	50	42		
AS160-30	45		107	103	101	99	96	93	90	85	79	73	66	58	50		
AS160-40-2	55		129	124	121	117	112	106	100	94	87	79	71	61	51		
AS160-40-1	55		136	133	130	126	122	117	112	105	98	90	81	70	60		
AS160-40	75		142	137	134	131	128	123	118	112	105	97	88	78	67		
AS160-50-2	75		166	163	159	154	148	142	135	127	118	108	96	83	70		
AS160-50	75		175	173	171	168	164	158	151	142	133	122	111	97	83		
AS160-60	90		212	209	205	201	196	190	181	171	159	147	133	115	98		
AS160-70	110		247	244	241	236	231	222	212	200	188	171	154	135	115		
AS160-80-2	110		272	267	262	256	249	238	226	213	198	180	161	141	120		

Performance Curves



Installation Drawing



Size & Weight

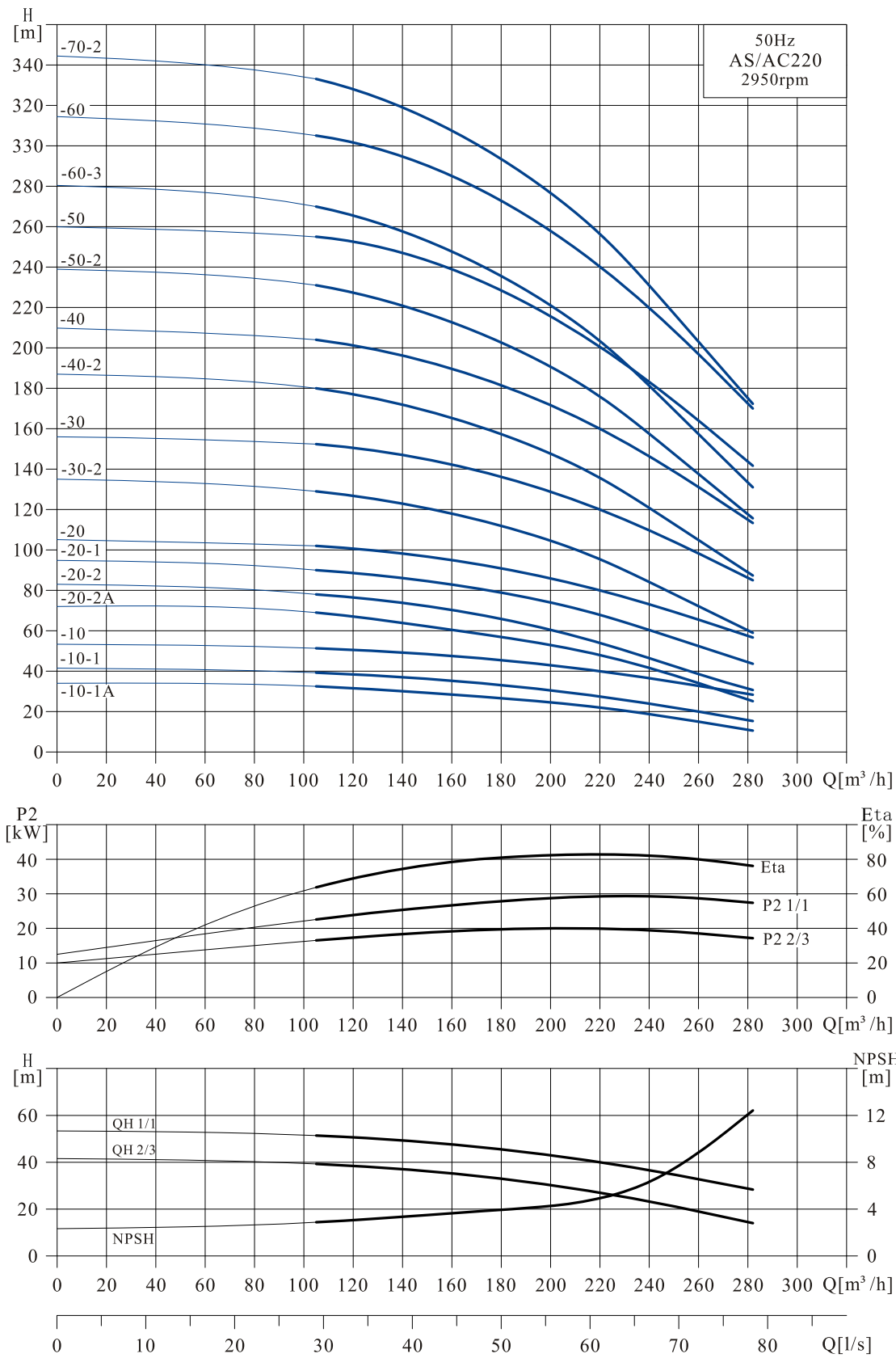
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS190-10-1A	861	523	1384	311	235	261
AS190-10-1	861	578	1439	311	235	283
AS190-10	861	578	1439	311	235	315
AS190-20-2A	989	666	1655	397	305	397
AS190-20-2	989	666	1655	397	305	411
AS190-20	989	704	1693	442	324	481
AS190-30-3	1147	785	1932	484	365	604
AS190-30	1147	849	1996	548	388	718
AS190-40-3	1275	849	2124	548	388	730
AS190-40	1275	900	2175	548	388	776
AS190-50-3	1403	1190	2593	630	525	1119
AS190-50	1403	1190	2593	630	525	1121
AS190-60-3	1531	1190	2721	630	525	1273
AS190-60	1531	1190	2721	630	525	1275
AS190-70-3	1659	1190	2849	630	525	1275
AS190-70	1659	1190	2849	630	525	1277
AS190-80-3	1787	1190	2977	630	525	1559
AS190-80	1787	1190	2977	630	525	1561

Note: For the same model, AC is 28.7 kg heavier than AS.

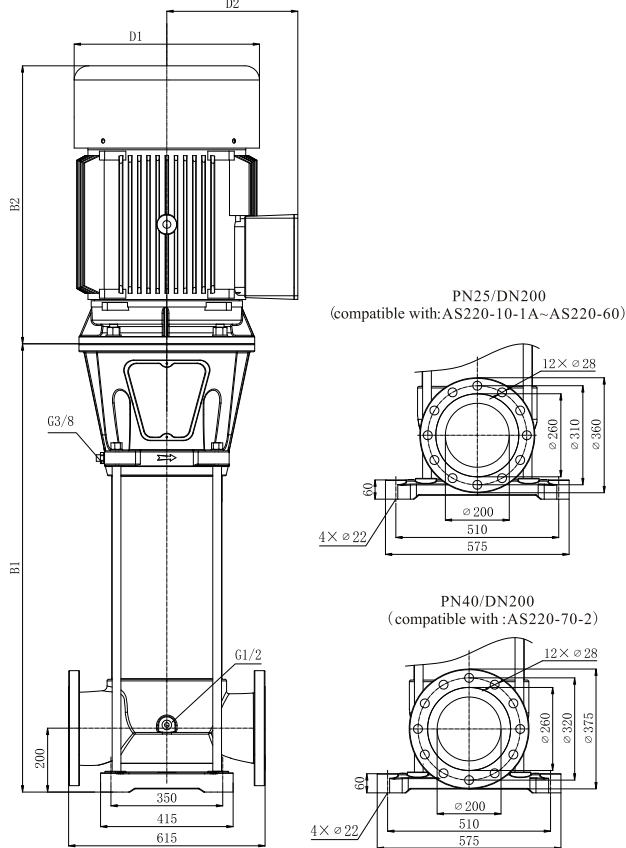
Performance Table

Model	Motor (kW)	Q (m³/h)	90	120	140	160	180	190	200	220	240
AS190-10-1A	15	H (m)	30	29	28	26	24	22	20	17	14
AS190-10-1	18.5		38	36	35	33	29	27	25	21	17
AS190-10	22		40	38	37	36	34	33	31	28	24
AS190-20-2A	30		61	59	56	53	48	44	41	34	28
AS190-20-2	37		75	72	69	65	59	55	51	42	34
AS190-20	45		83	81	79	76	70	67	63	55	47
AS190-30-3	55		113	109	104	98	88	82	76	64	51
AS190-30	75		124	121	118	114	105	100	95	82	71
AS190-40-3	75		154	149	143	136	123	115	108	91	75
AS190-40	90		165	161	157	152	140	133	127	109	95
AS190-50-3	110		196	189	183	174	158	149	139	118	98
AS190-50	110		207	202	197	190	175	167	158	137	118
AS190-60-3	132		237	230	222	212	193	182	171	146	122
AS190-60	132		248	242	236	228	210	200	190	164	142
AS190-70-3	160		278	270	261	250	228	215	203	173	146
AS190-70	160		289	282	275	266	245	233	222	191	166
AS190-80-3	200		320	310	301	288	263	249	234	200	169
AS190-80	200		331	323	315	304	280	267	253	219	189

Performance Curves



Installation Drawing



Size & Weight

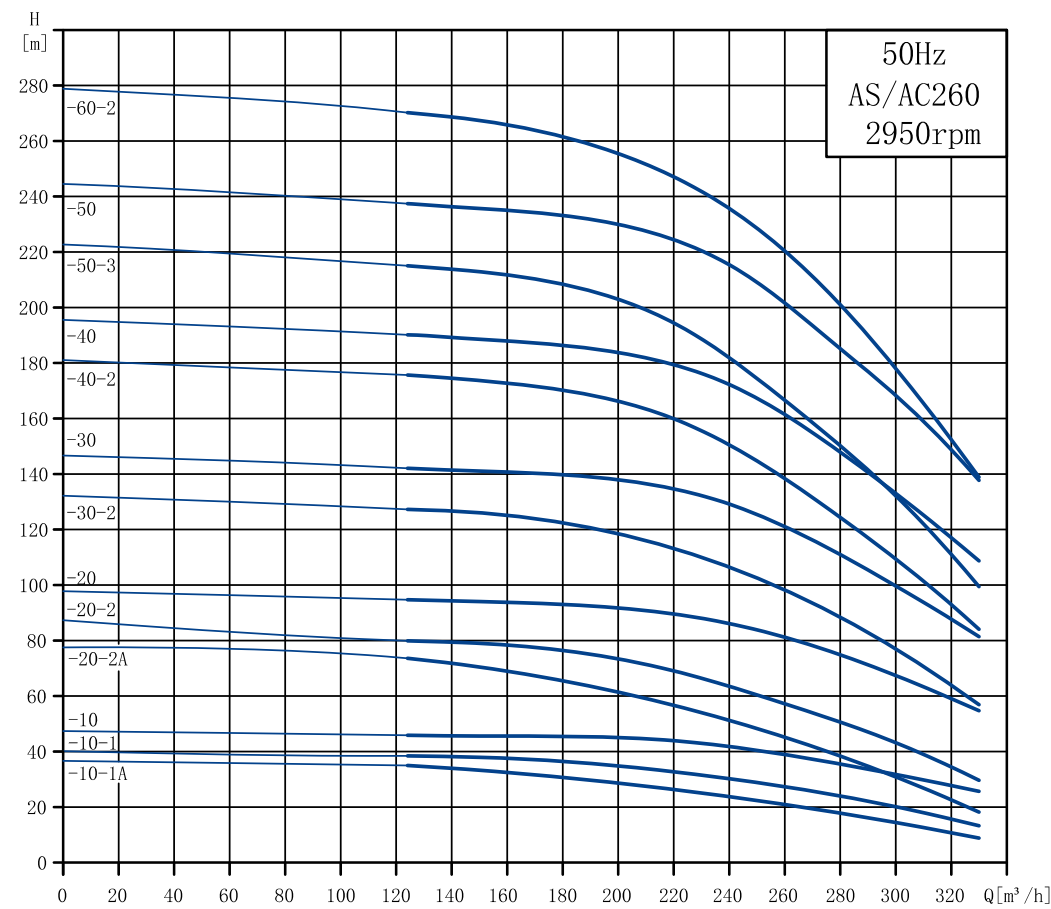
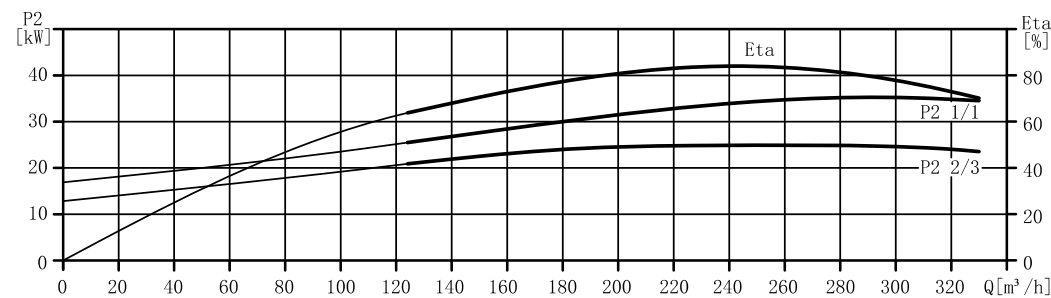
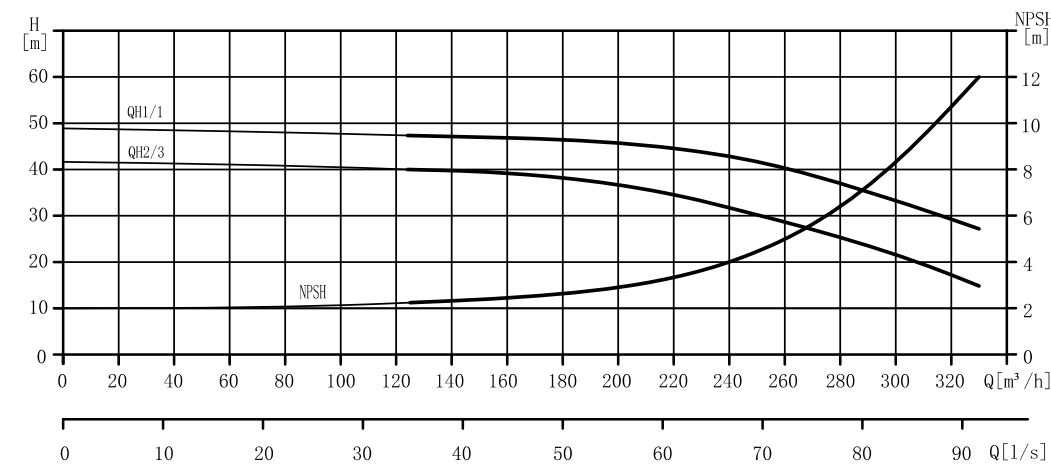
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS220-10-1A	861	578	1439	311	235	284
AS220-10-1	861	578	1439	311	235	316
AS220-10	861	666	1527	397	305	400
AS220-20-2A	989	666	1655	397	305	413
AS220-20-2	989	704	1693	442	324	483
AS220-20-1	1019	785	1804	484	365	596
AS220-20	1019	849	1868	548	388	712
AS220-30-2	1147	849	1996	548	388	722
AS220-30	1147	900	2047	548	388	769
AS220-40-2	1275	1190	2465	630	525	1106
AS220-40	1275	1190	2465	630	525	1247
AS220-50-2	1403	1190	2593	630	525	1251
AS220-50	1403	1190	2593	630	525	1245
AS220-60-3	1531	1190	2721	630	525	1251
AS220-60	1531	1190	2721	630	525	1521
AS220-70-2	1659	1190	2849	630	525	1529

Note: For the same model, AC is 28.7 kg heavier than AS.

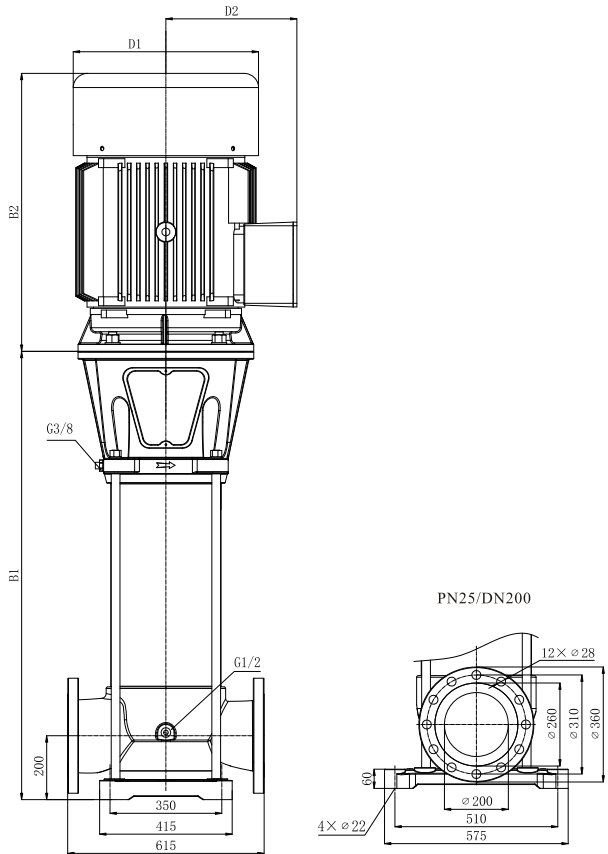
Performance Table

Model	Motor (kW)	Q (m³/h)	105	120	140	160	180	200	220	240	260	280	282
AS220-10-1A	18.5	H (m)	33	31	30	28	26	24	22	18	15	13	11
AS220-10-1	22		39	38	37	35	33	30	27	24	20	16	15
AS220-10	37		51	50	49	48	46	43	40	37	33	29	28
AS220-20-2A	37		69	66	63	60	57	52	48	40	34	27	25
AS220-20-2	45		78	77	74	70	66	60	54	47	40	32	31
AS220-20-1	55		90	89	86	83	79	73	67	60	53	45	44
AS220-20	75		102	101	98	95	91	87	80	73	66	58	57
AS220-30-2	75		129	127	123	118	112	103	94	84	73	60	59
AS220-30	90		153	151	147	143	137	130	120	110	99	87	85
AS220-40-2	110		180	177	172	165	157	147	134	121	106	89	87
AS220-40	132		204	201	196	191	183	173	160	147	132	116	113
AS220-50-2	132		231	228	221	213	203	190	174	157	139	118	116
AS220-50	160		255	252	245	238	228	217	200	183	165	145	142
AS220-60-3	160		270	266	258	248	236	220	201	181	159	134	131
AS220-60	200		306	302	294	286	274	260	240	220	198	174	170
AS220-70-2	200		333	328	319	308	294	277	254	231	205	176	172

Performance Curves



Installation Drawing



Size & Weight

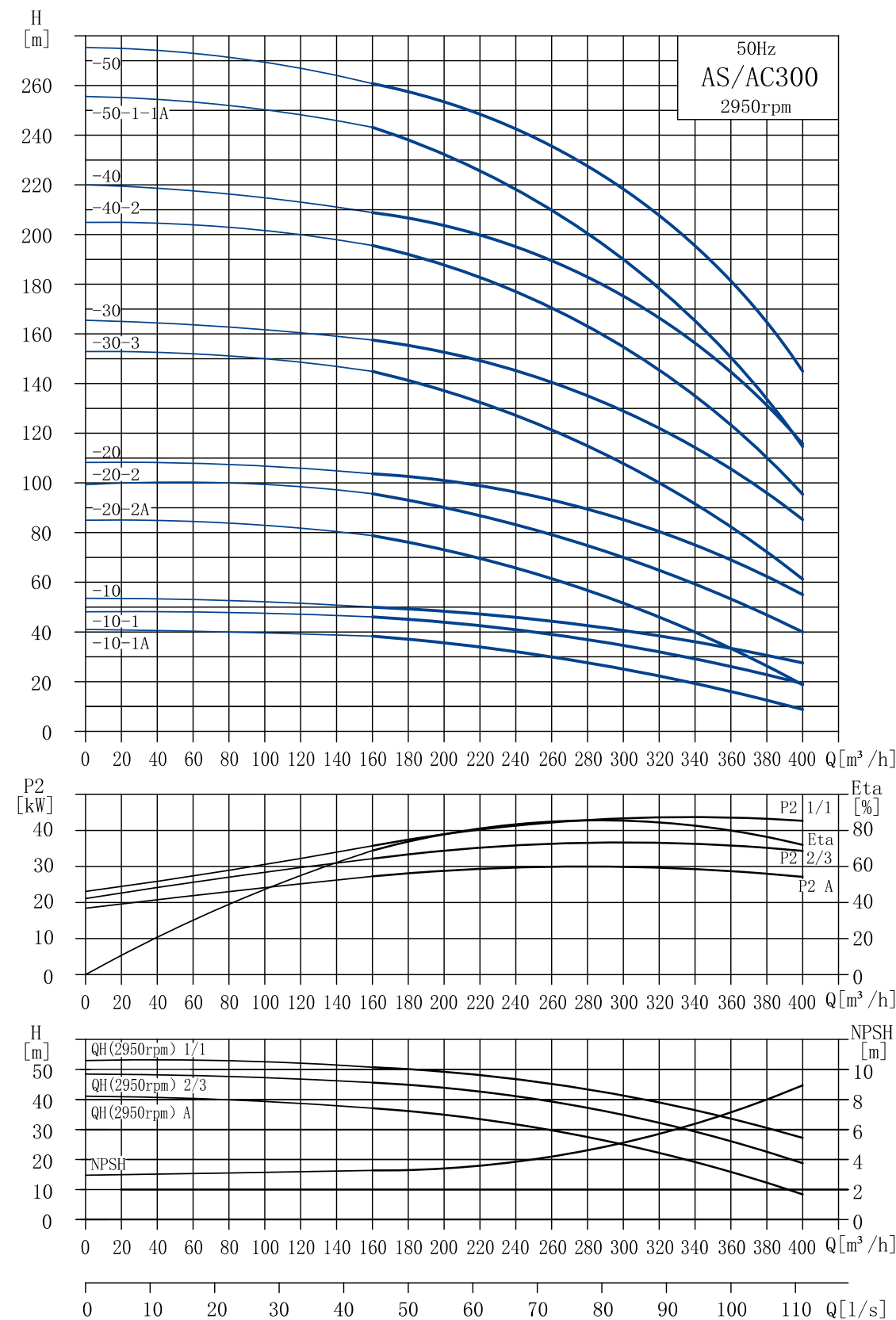
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS260-10-1A	864	578	1442	311	235	319
AS260-10-1	864	666	1530	397	305	389
AS260-10	864	666	1530	397	305	403
AS260-20-2A	997	704	1701	442	324	478
AS260-20-2	1027	785	1812	484	365	588
AS260-20	1027	849	1876	548	388	703
AS260-30-2	1160	900	2060	548	388	754
AS260-30	1160	1190	2350	630	525	1086
AS260-40-2	1293	1190	2483	630	525	1231
AS260-40	1293	1190	2483	630	525	1225
AS260-50-3	1426	1190	2616	630	525	1231
AS260-50	1426	1190	2616	630	525	1501
AS260-60-2	1559	1190	2749	630	525	1506

Note: For the same model, AC is 28.7 kg heavier than AS.

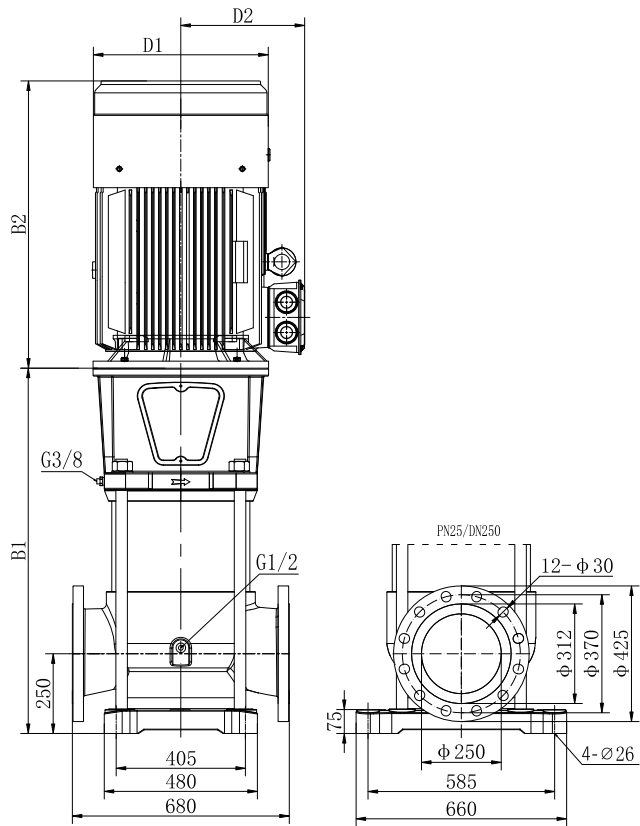
Performance Table

Model	Motor (kW)	Q (m³/h)	125	140	160	180	200	220	240	260	280	300	320	330
AS260-10-1A	22	H (m)	36.7	34.5	33.6	31.5	29.6	27	24	21.5	17	14	10	8
AS260-10-1	30		38.8	38.3	37.8	37.3	35.8	33.1	30.2	27.2	23.8	19.8	16.0	13.7
AS260-10	37		46.8	46.5	46.2	45.8	45.1	43.9	41.6	38.9	35.5	31.9	28.0	26.0
AS260-20-2A	45		75	72	69	64	60.5	55	49	45	37	29.5	21.5	18
AS260-20-2	55		81	80	79	78	75	69	63	57	51	42.5	35.0	30.5
AS260-20	75		97	96	95	94	93	91	86	81	74	67	59	55
AS260-30-2	90		130	128	126	124	121	115	106	98	88	76	64	58
AS260-30	110		145	144	143	142	140	136	129	121	111	100	89	82
AS260-40-2	132		178	177	175	173	168	160	150	138	125	109	94	85
AS260-40	160		194	193	192	190	186	182	172	161	148	133	118	110
AS260-50-3	160		199	217	214	211	205	195	181	167	150	130	111	101
AS260-50	200		242	241	239	237	233	227	215	202	185	167	148	137
AS260-60-2	200		274	272	270	267	261	251	236	219	199	176	153	140

Performance Curves



Installation Drawing



Size & Weight

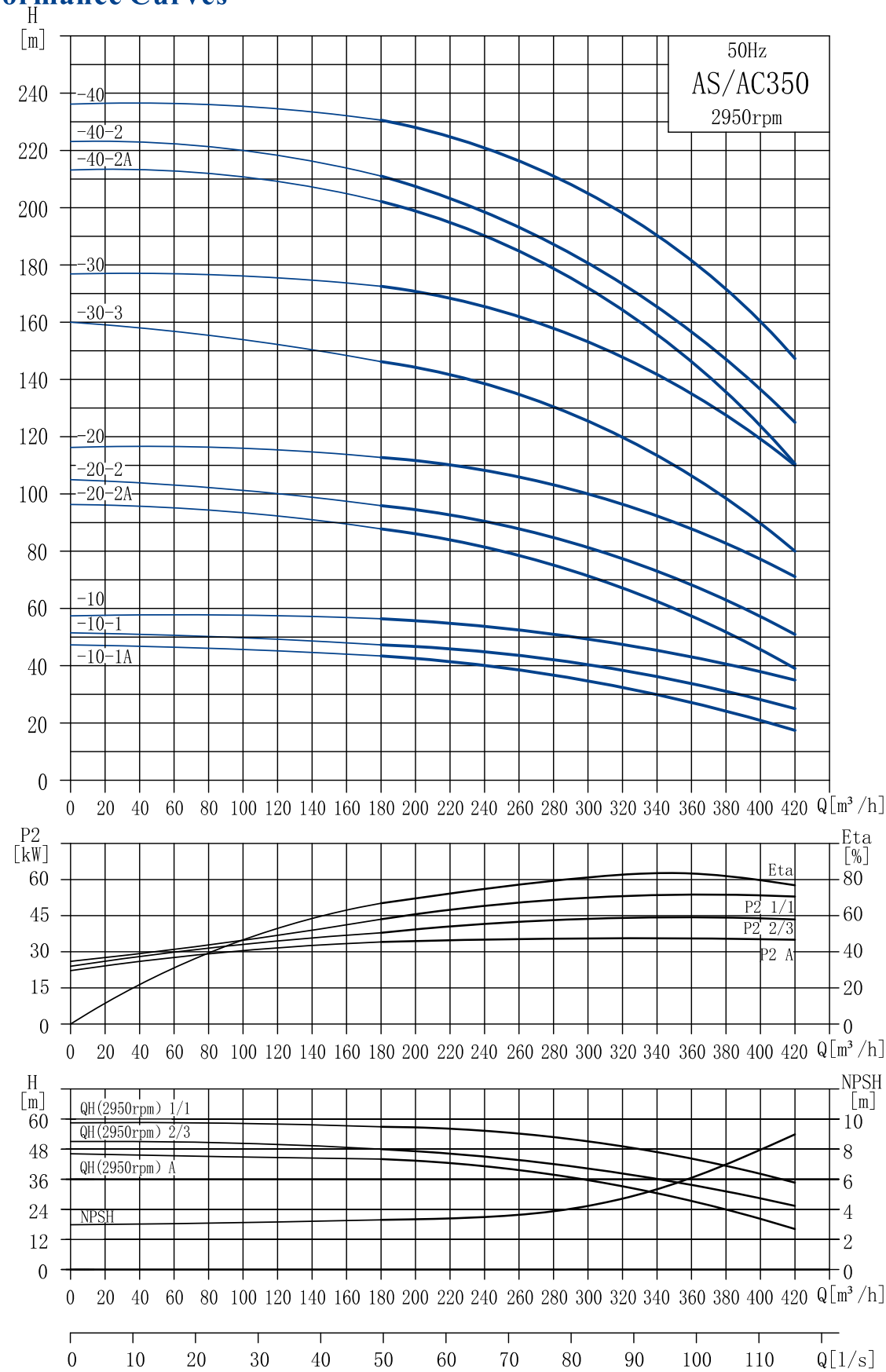
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS300-10-1A	970	666	1636	397	305	387
AS300-10-1	970	666	1636	397	305	403
AS300-10	970	704	1674	442	324	470
AS300-20-2A	1145	785	1930	484	365	564
AS300-20-2	1145	849	1994	548	388	702
AS300-20	1145	900	2045	548	388	749
AS300-30-3	1290	1190	2480	630	525	1071
AS300-30	1290	1190	2480	630	525	1226
AS300-40-2	1435	1190	2625	630	525	1223
AS300-40	1435	1190	2625	630	525	1448
AS300-50-1-1A	1580	1190	2770	630	525	1499
AS300-50	1580	1190	2770	630	525	1500

Note: For the same model, AC is 28.7 kg heavier than AS.

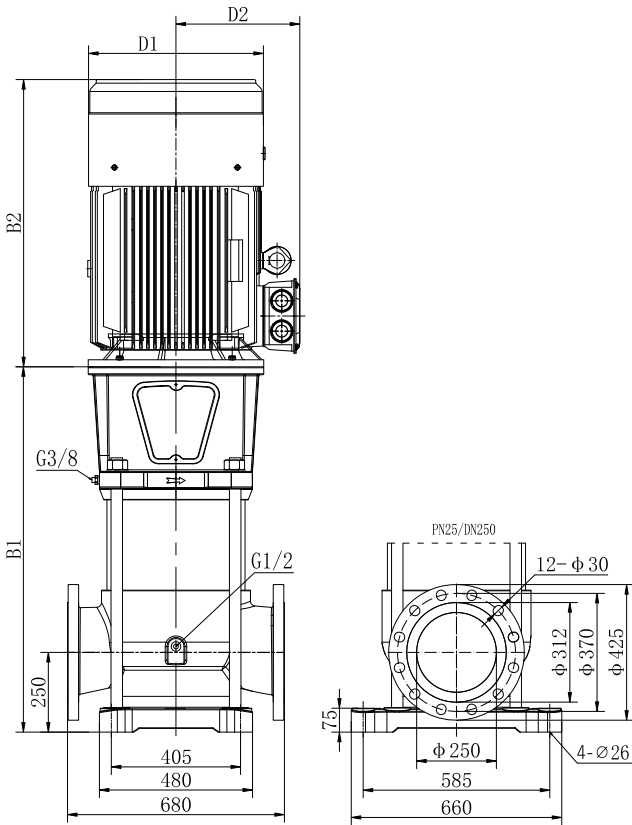
Performance Table

Model	Motor (kW)	Q (m³/h)	160	180	200	220	240	260	280	300	320	340	360	380	400
AS300-10-1A	30	H (m)	38	37	36	34	32	30	27.5	25	22	19	16	12	8
AS300-10-1	37		46	45	44	42.5	41	39	37	34	32	29	26	23	19
AS300-10	45		50	49	48	47	46	44	43	42	39	36	33	31	27
AS300-20-2A	55		78	76	73	70	66	62	57	52	46	40	33	26	18
AS300-20-2	75		95	93	90	87	83	79	75	70	65	59	53	47	40
AS300-20	90		104	103	101	99	96	93	90	85	80	75	69	62	55
AS300-30-3	110		145	141	137	133	127	122	115	107	100	92	82	72	62
AS300-30	132		157	155	152	149	145	141	135	129	122	114	105	95	85
AS300-40-2	160		195	192	188	183	177	170	163	155	145	135	123	110	95
AS300-40	185		209	206	203	200	195	190	183	174	166	156	145	131	115
AS300-50-1-1A	200		243	238	232	225	218	210	200	189	178	165	150	133	114
AS300-50	220		261	257	253	248	243	235	227	219	208	195	181	164	144

Performance Curves



Installation Drawing



Size & Weight

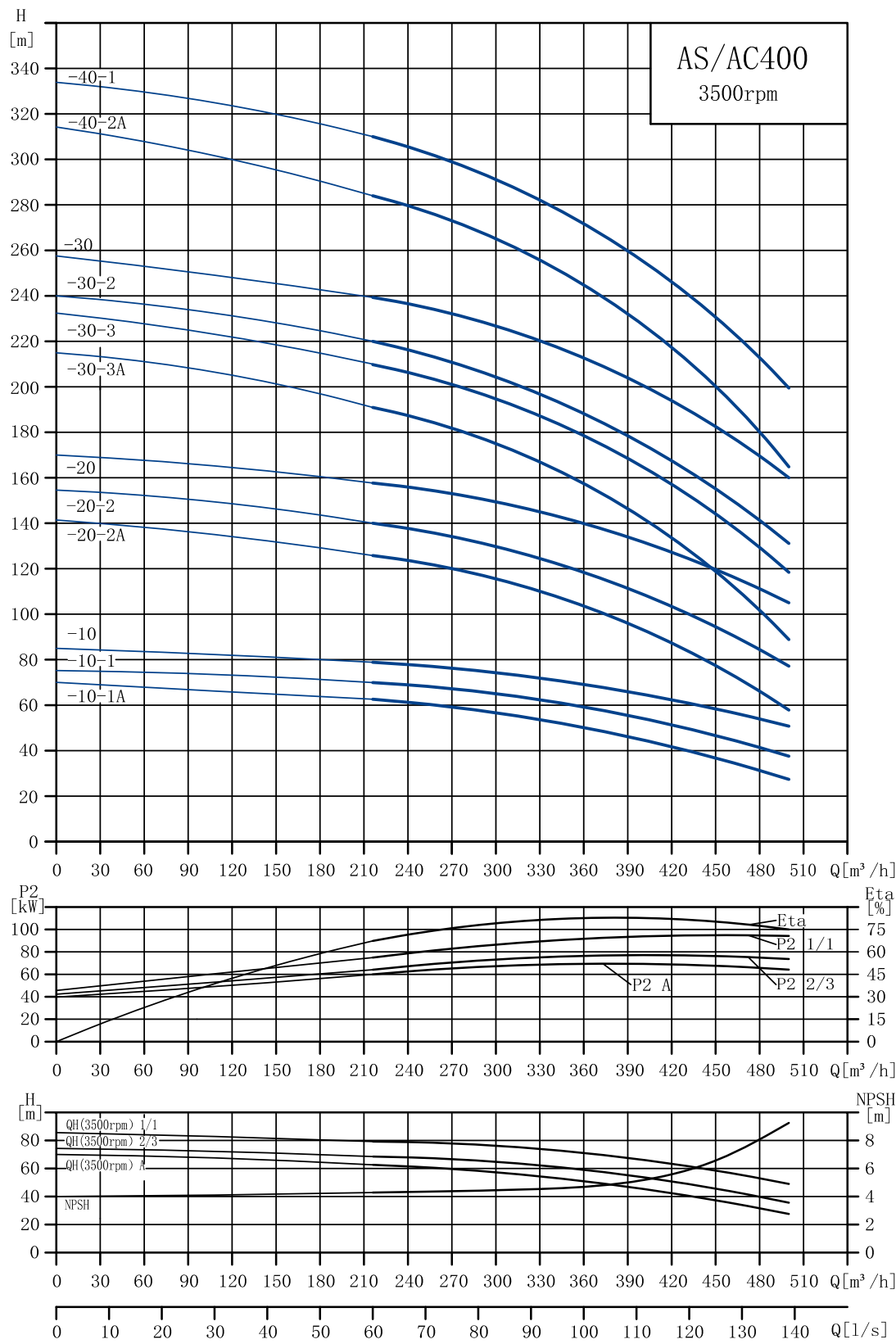
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS350-10-1A	970	666	1636	397	305	405
AS350-10-1	970	704	1674	442	324	473
AS350-10	1000	785	1785	484	365	559
AS350-20-2A	1145	849	1994	548	388	704
AS350-20-2	1145	900	2045	548	388	751
AS350-20	1145	1190	2335	630	525	1070
AS350-30-3	1290	1190	2480	630	525	1224
AS350-30	1290	1190	2480	630	525	1218
AS350-40-2A	1435	1190	2625	630	525	1450
AS350-40-2	1435	1190	2625	630	525	1495
AS350-40	1435	1190	2625	630	525	1541

Note: For the same model, AC is 28.7 kg heavier than AS.

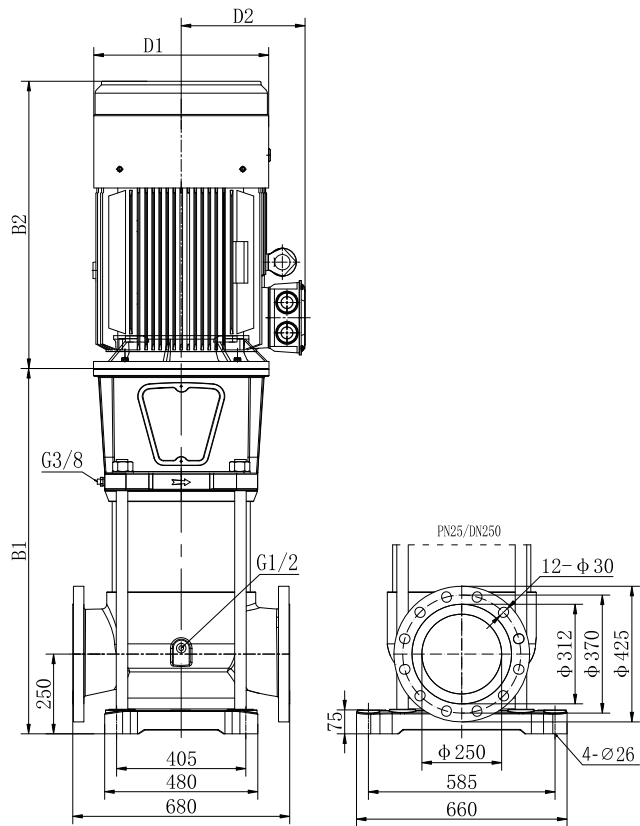
Performance Table

Model	Motor (kW)	Q (m³/h)	180	200	220	240	260	280	300	320	340	350	360	380	400	420
AS350-10-1A	37	H (m)	44	42.5	41	40	38	36	34	32	30	29	27	24	21	17
AS350-10-1	45		48	47	46	45	44	42	40	38	36	35	34	31	28	25
AS350-10	55		57	56	55	54	52	51	49	47	45	44	43	41	36	35
AS350-20-2A	75		88	86	84	81	78	75	71	67	63	60	57	52	45	38
AS350-20-2	90		96	94	92	90	88	85	82	78	74	72	68	63	57	51
AS350-20	110		113	111	110	108	106	103	100	96	93	90	87	83	74	71
AS350-30-3	132		146	144	141	138	135	130	125	120	113	110	106	98	90	80
AS350-30	160		173	171	168	165	162	158	154	148	142	138	135	127	118	110
AS350-40-2A	185		202	198	195	190	185	178	172	164	156	150	146	135	124	110
AS350-40-2	200		211	207	203	198	193	190	184	173	167	163	157	147	136	125
AS350-40	220		231	228	224	221	216	211	205	198	190	186	181	171	160	147

Performance Curves



Installation Drawing



Size & Weight

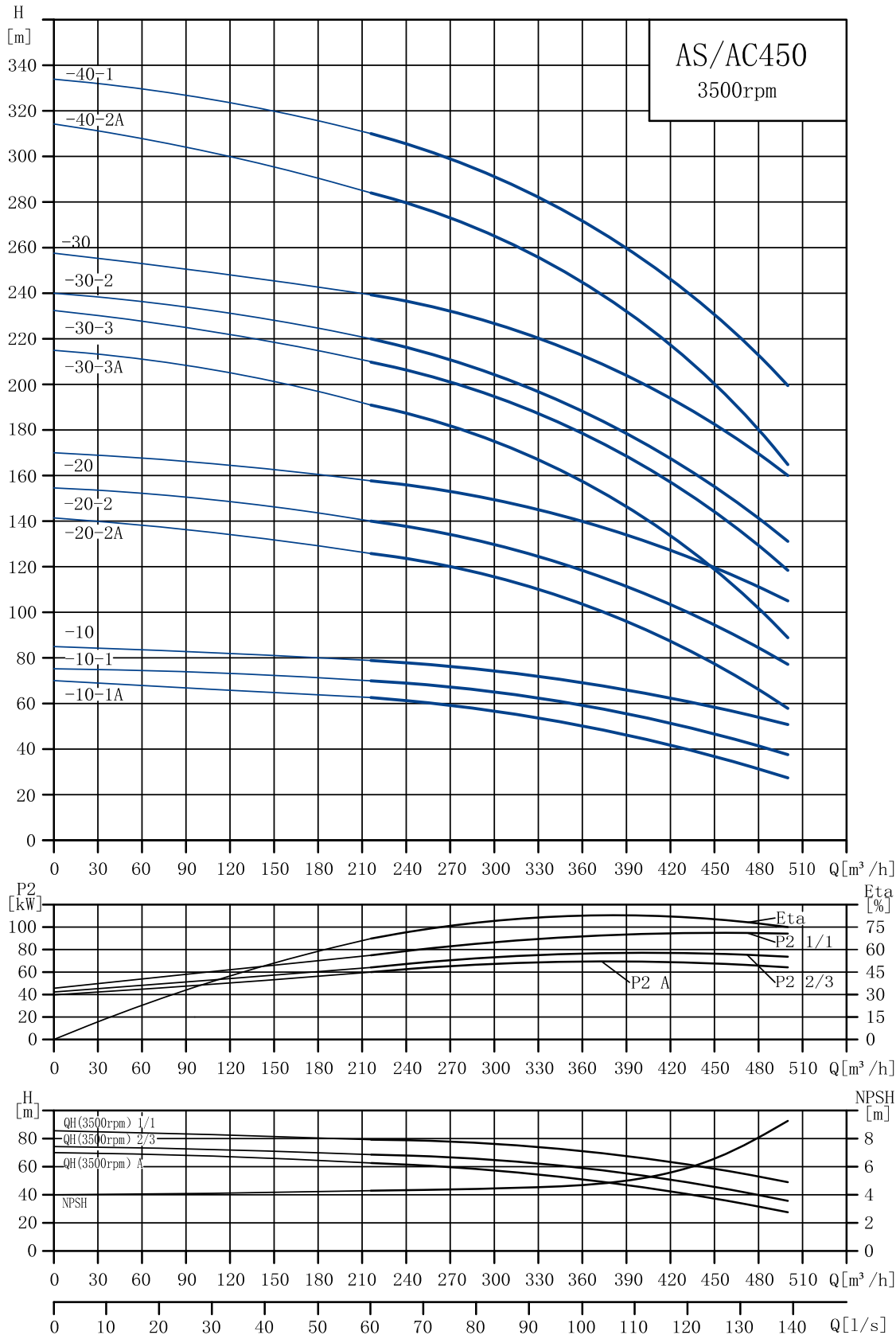
Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS400-10-1A	970	767	1737	352	273	470
AS400-10-1	970	767	1737	352	273	471
AS400-10	970	767	1737	352	273	491
AS400-20-2A	1115	704	1819	442	324	537
AS400-20-2	1115	704	1819	442	324	563
AS400-20	1115	704	1819	442	324	580
AS400-30-3A	1260	704	1964	442	324	609
AS400-30-3	1290	785	2075	484	365	636
AS400-30-2	1290	785	2075	484	365	665
AS400-30	1290	785	2075	484	365	685
AS400-40-2A	1435	785	2220	484	365	706
AS400-40-1	1580	929	2509	548	388	780

Note: For the same model, AC is 28.7 kg heavier than AS.

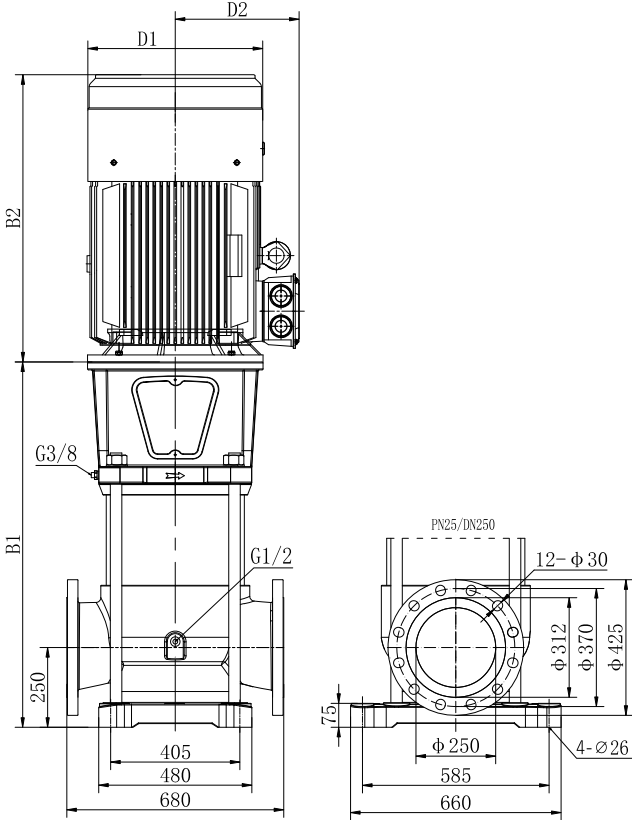
Performance Table

Model	Motor (kW)	Q (m³/h)	216	240	270	300	330	360	390	400	420	450	480	498
AS400-10-1A	75	H (m)	63	61	58	56	53	50	47	45	42	37	32	27
AS400-10-1	75		69	68	67	65	62	59	56	53	47	43	41	37
AS400-10	90		79	78	76	74	72	69	66	64	62	58	54	52
AS400-20-2A	132		124	122	120	115	110	104	96	93	87	77	66	57
AS400-20-2	160		140	137	133	129	124	118	112	108	103	94	85	77
AS400-20	185		158	156	153	149	145	140	134	132	127	120	111	105
AS400-30-3A	200		190	187	182	175	167	157	146	142	134	129	102	88
AS400-30-3	225		210	206	201	194	187	178	168	164	157	143	130	118
AS400-30-2	250		221	216	211	204	196	188	178	175	168	155	142	131
AS400-30	280		239	237	232	226	220	212	204	200	194	182	169	160
AS400-40-2A	315		284	280	273	264	255	244	232	227	217	200	180	164
AS400-40-1	355		310	305	299	291	282	271	260	255	246	230	213	199

Performance Curves



Installation Drawing



Size & Weight

Model	Size(mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
AS450-10-1A	970	767	1737	352	273	470
AS450-10-1	970	767	1737	352	273	471
AS450-10	970	767	1737	352	273	491
AS450-20-2A	1115	704	1819	442	324	537
AS450-20-2	1115	704	1819	442	324	563
AS450-20	1115	704	1819	442	324	580
AS450-30-3A	1260	704	1964	442	324	609
AS450-30-3	1290	785	2075	484	365	636
AS450-30-2	1290	785	2075	484	365	665
AS450-30	1290	785	2075	484	365	685
AS450-40-2A	1435	785	2220	484	365	706
AS450-40-1	1580	929	2509	548	388	780

Note: For the same model, AC is 28.7 kg heavier than AS.

Performance Table

Model	Motor (kW)	Q (m³/h)	216	240	270	300	330	360	390	400	420	450	480	498
AS450-10-1A	75	H (m)	63	61	58	56	53	50	47	45	42	37	32	27
AS450-10-1	75		69	68	67	65	62	59	56	53	47	43	41	37
AS450-10	90		79	78	76	74	72	69	66	64	62	58	54	52
AS450-20-2A	132		124	122	120	115	110	104	96	93	87	77	66	57
AS450-20-2	160		140	137	133	129	124	118	112	108	103	94	85	77
AS450-20	185		158	156	153	149	145	140	134	132	127	120	111	105
AS450-30-3A	200		190	187	182	175	167	157	146	142	134	129	102	88
AS450-30-3	225		210	206	201	194	187	178	168	164	157	143	130	118
AS450-30-2	250		221	216	211	204	196	188	178	175	168	155	142	131
AS450-30	280		239	237	232	226	220	212	204	200	194	182	169	160
AS450-40-2A	315		284	280	273	264	255	244	232	227	217	200	180	164
AS450-40-1	355		310	305	299	291	282	271	260	255	246	230	213	199