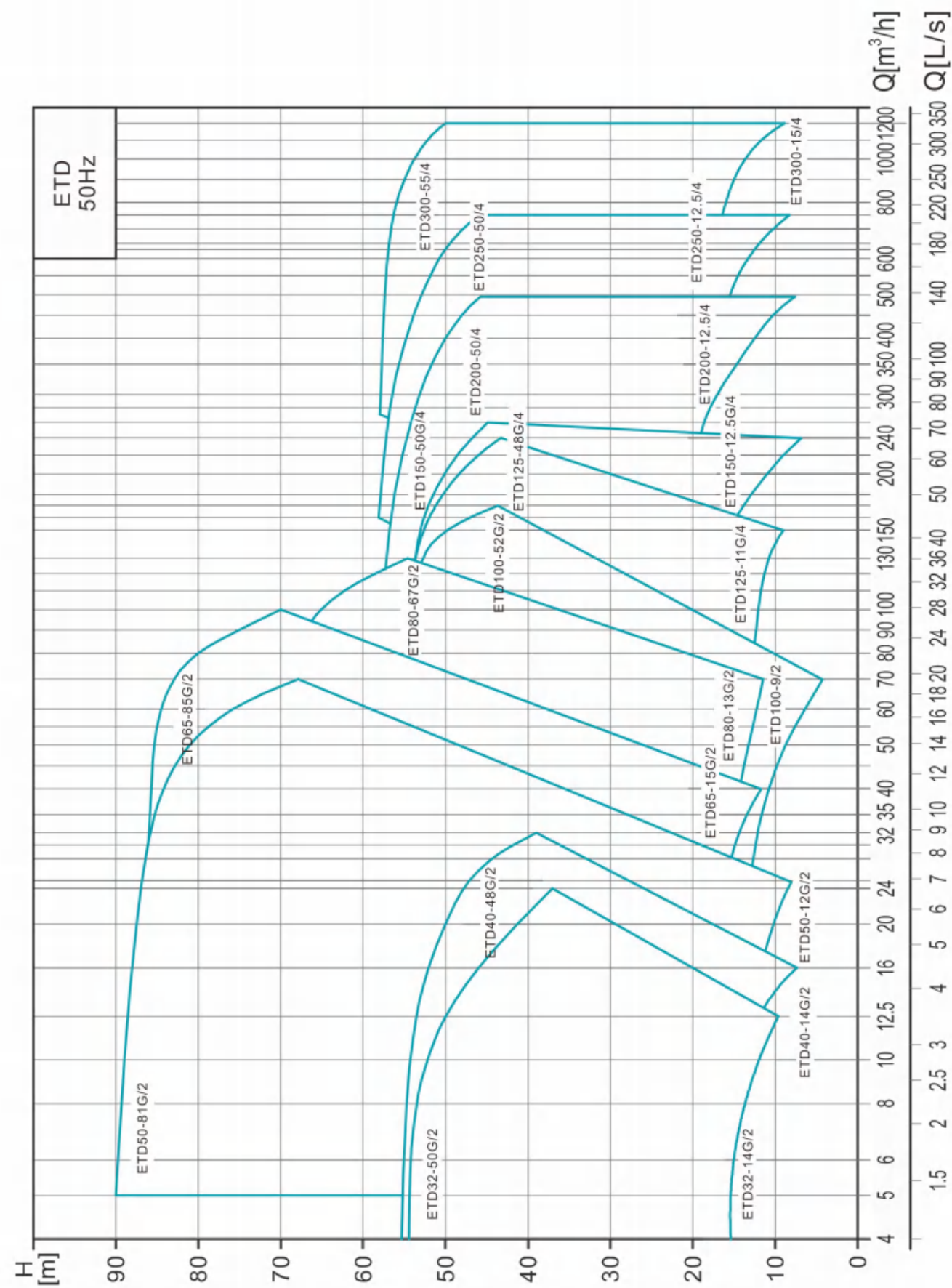


ETD

Vertical Pipeline
Circulation Pump

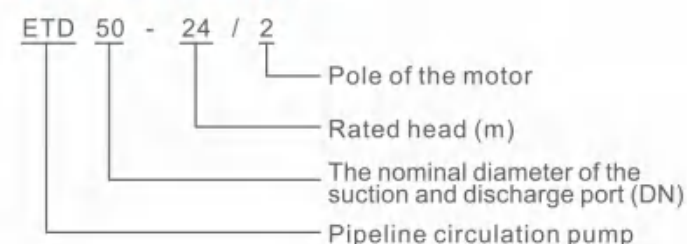




ETD Vertical Pipeline Circulation Pump



Model Definition



Product Overview

ETD type single stage pipeline circulation pump, equipped with standard motor and mechanical seal, has a structure that is less susceptible to impurities in the pumped liquid compared to similar types of products.

The product is designed in a detachable form that can be pulled out from the top, allowing for pump maintenance without affecting the piping system.

The ETD32-ETD150 caliber products have an extended shaft structure, while the ETD200-ETD300 caliber products have a detachable structure.

The detachable structure adopts a containerized mechanical seal, and there is no need to disassemble the motor when replacing the mechanical seal.

Operating Condition

The product is suitable for conveying thin, clean, non corrosive, non flammable and explosive liquids that do not contain solid particles, fibers, or liquids with physical and chemical properties similar to water. When used in situations where the liquid is viscous or dense, it can cause a decrease in the pump characteristic curve and an increase in energy consumption.

Maximum working pressure:

12 bar for conventional models; Special type is 16bar

Liquid temperature: -15°C to 110°C

Environmental temperature: maximum+40°C

Altitude: up to 1000m

Rotation direction: clockwise

(looking down from the motor blade end)

Application

ETD pump is a multi-purpose product that can transport various media from tap water to industrial liquids, mainly used as liquid conveying, pressurization, and circulation equipment.

For example:

Regional heating system (the water quality in the heating system should meet the recognized water quality standards of the system)

HVAC and air conditioning systems

Cooling system

Domestic hot water system

Industrial liquid transportation

Water supply system

Maximum Environmental Temperature, Altitude

When the pump operates at an ambient temperature greater than 40°C or an altitude greater than 1000m, due to low air density, the cooling effect is poor, and the output power P₂ of the motor will be reduced to a certain extent.

The motor power needs to be increased when the pump operates under the above conditions.

Motor

The motor is a fully enclosed, air-cooled standard motor with two or four poles.

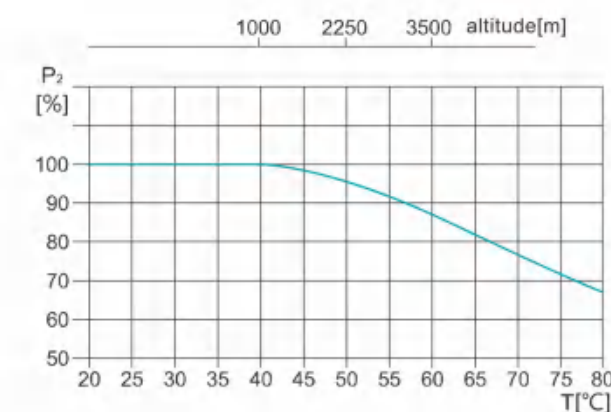
Protection level: IP55

Insulation class: F

Standard voltage: 50Hz: 1x220-230/240V

3x200-220/346-380V

3x220-240/380-415V



Product Mix

The product adopts a detachable structure between the motor and pump, and the pump part is designed to be pullout.

All such products are equipped with standard motors and mechanical seals. The motor is a fully enclosed, aircooled standard motor.

The product pump body is equivalent to a section of pipeline. When repairing the pump, blind flanges can be used to seal the pump body, so as not to affect the normal operation of the system.

The connecting flange size of the product complies with the GB/T17241.6 (ISO7005-2) standard, and the pressure rating is PN16.

The import and export diameters of the product comply with relevant standard dimensions.

The pump head of the product is a device that connects the motor and pump body. The sealing element between it and the pump body adopts an O-ring.

Minimum Inlet Pressure - NPSH

If the pressure in the pump is lower than the vaporization pressure of the conveyed liquid, cavitation may occur. To avoid cavitation, ensure that there is a minimum pressure on the inlet side of the pump, and the maximum suction head H (meters) can be measured using the following formula:

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

H - Maximum suction head (meters)

pb - atmospheric pressure (bar)

In a closed pipeline, it can be considered as the system pressure (bar) of a closed system.

NPSH net positive suction head (meters)

It can be read at the maximum flow rate corresponding to the NPSH curve in the performance curve.

H_f - Pipeline loss at the inlet (meters)

It is the value corresponding to the maximum flow rate that the pipeline may generate.

H_v - Vaporization pressure of liquid (meters)

The magnitude of its value depends on the vaporization pressure value of the liquid's temperature.

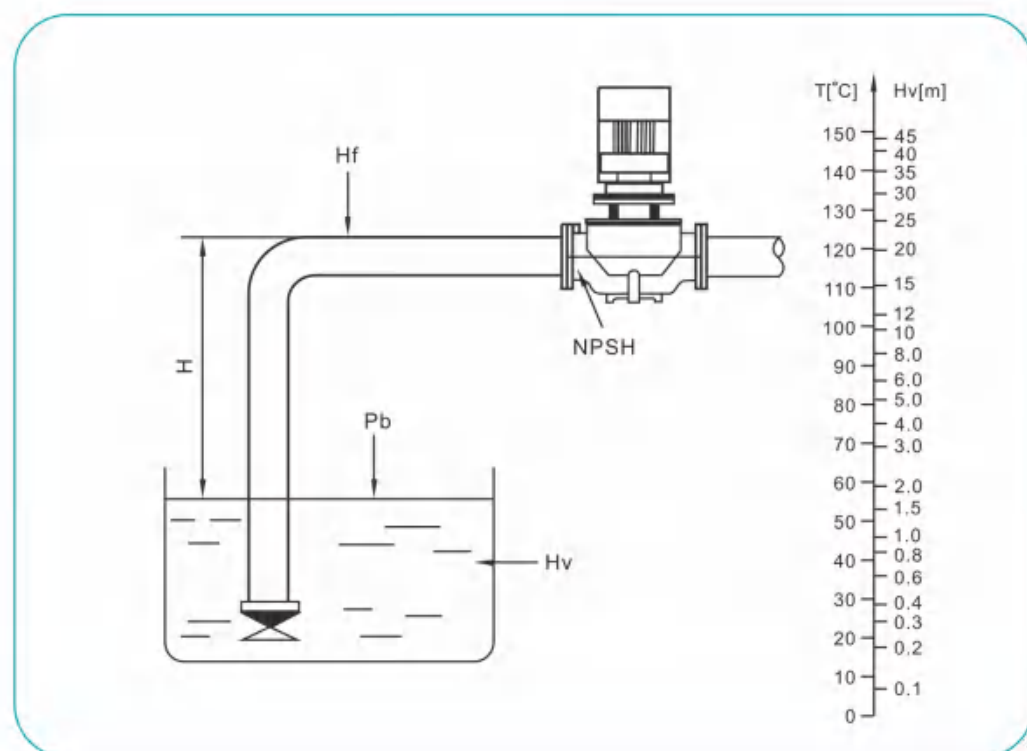
H_s - Safety margin (meters)

The minimum pressure head is 0.5 meters.

By calculation, if " H " is a positive value, it indicates that the pump can operate at the maximum suction head " H "; If " H " is negative, it means that the pump must have a minimum pressure of the corresponding " H " meter at the inlet in order to operate normally.

Note: In general, the above calculations are not performed. Calculate " H " only when using the pump in the following situations:

1. High liquid temperature
2. The liquid flow rate exceeds the rated value
3. Large suction head or long inlet pipeline
4. System pressure too low
5. Poor import conditions



Installation Condition

The product has different installation requirements, and the specific installation requirements are as follows:

1. The system pipeline has the ability to support the pump, and pumps equipped with $\leq 2.2\text{kW}$ motors can be directly suspended in the pipeline;
2. For pumps equipped with motors $\leq 2.2\text{kW}$, they can be installed horizontally or vertically on the working pipeline; For pumps equipped with motors greater than 2.2kW , they must be installed vertically in the horizontal direction in the working pipeline. (Figure 2-A)
3. The installation of the pump should ensure that the tension of the system pipeline should not be transmitted to the pump body during use.
4. To ensure the normal operation of the motor, the pump should be installed in an environment with sufficient cooling, and the temperature of the cooling air should not exceed 40°C .
5. If the pump is installed outdoors, a suitable cover must be provided to prevent water ingress or condensation of electrical components.
6. In order to facilitate inspection and maintenance of the pump, sufficient space must be left above and below the pump. When the matching motor of the pump is less than 5.5kW , a minimum of 300mm should be left; When the matching motor of the pump is $\geq 5.5\text{kW}$, a minimum of 1000mm should be left. (Figure 2-B)
7. To prevent noise and vibration and ensure optimal operation, the pump should be installed with a vibration reducing base. Generally, a cement base is used, and the weight of the base should be ≥ 1.5 times the weight of the pump. (Figure 2-C)
8. To meet the different needs of customers, ETD32-ETD150 products are divided into two types: with a base plate and without a base plate. (See Attachment 1 for the size of the base plate)

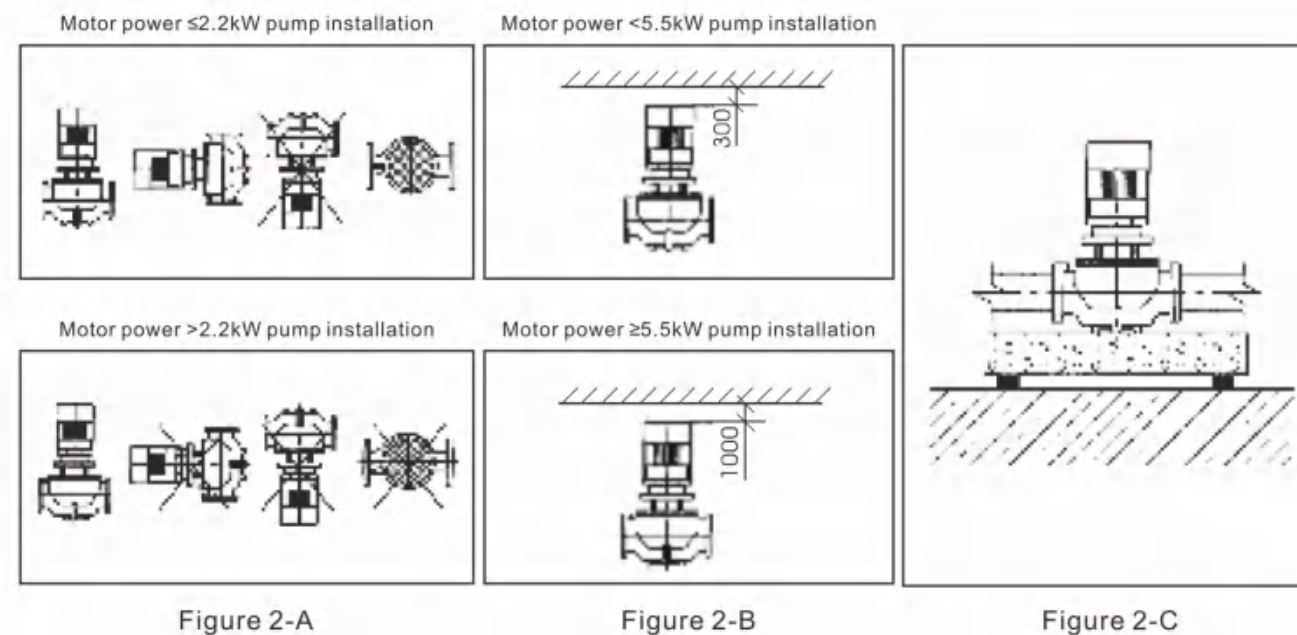
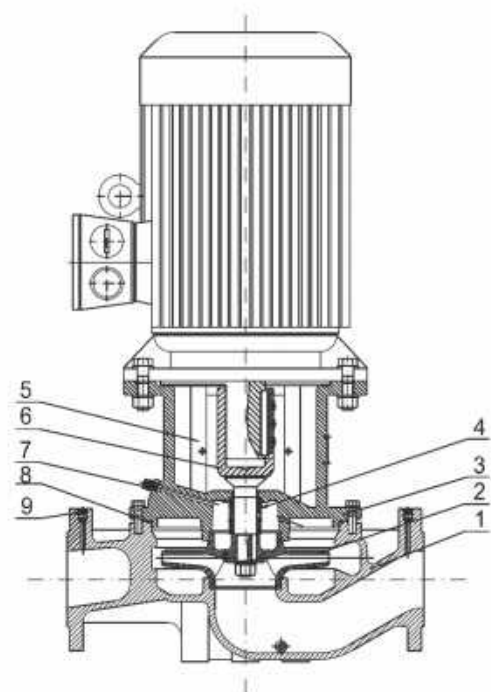


Figure 2-A

Figure 2-B

Figure 2-C

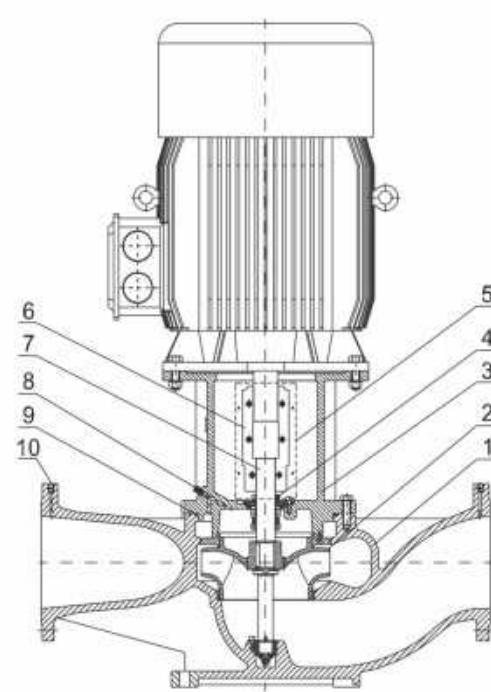
Structure Drawing ETD32-ETD150 Extended shaft



ETD32-TD150 Material List

No.	Name	Material
1	Pump body	Cast iron HT200
2	Impeller	Cast iron/Stainless steel HT200/ZG07Cr19Ni9
3	Pump head	Cast iron HT200
4	Mechanical seal	Graphite/silicon carbide
5	Protective plate	Stainless steel 06Cr19Ni10
6	Shaft	Stainless steel 20Cr13
7	Deflation assembly	Stainless steel 06Cr19Ni10
8	O-ring	NBR
9	Screw plug	Stainless steel 06Cr19Ni10

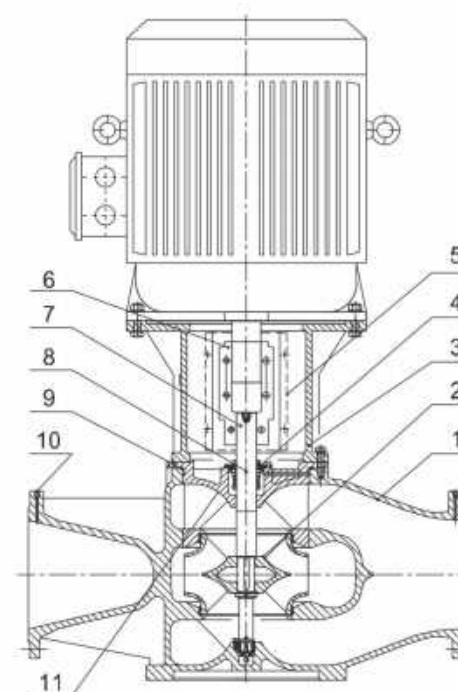
Structure Drawing ETD200-ETD250 Removable



ETD200-ETD250 Material List

No.	Name	Material
1	Pump body	Cast iron HT200
2	Impeller	Cast iron/Stainless steel HT200/ZG07Cr19Ni9
3	Pump head	Cast iron HT200
4	Mechanical seal	Graphite/silicon carbide
5	Protective plate	Stainless steel 06Cr19Ni10
6	Coupling	Cast steel ZG270-500
7	Shaft	Stainless steel 20Cr13
8	Deflation assembly	Stainless steel 06Cr19Ni10
9	O-ring	Nitrile rubber NBR
10	Screw plug	Stainless steel 06Cr19Ni10

Structure Drawing ETD300 Removable



ETD300 Material List

No.	Name	Material
1	Pump body	Ductile iron QT500-7
2	Impeller	Cast iron/stainless steel HT200/ZG07Cr19Ni9
3	Pump head	Cast iron HT200
4	Mechanical seal	Graphite/silicon carbide
5	Protective plate	Stainless steel 06Cr19Ni10
6	Coupling	Cast steel ZG270-500
7	Shaft	Stainless steel 20Cr13
8	Deflation assembly	Stainless steel 06Cr19Ni10
9	O-ring	Nitrile rubber NBR
10	Screw plug	Stainless steel 06Cr19Ni10
11		Ductile iron QT500-7

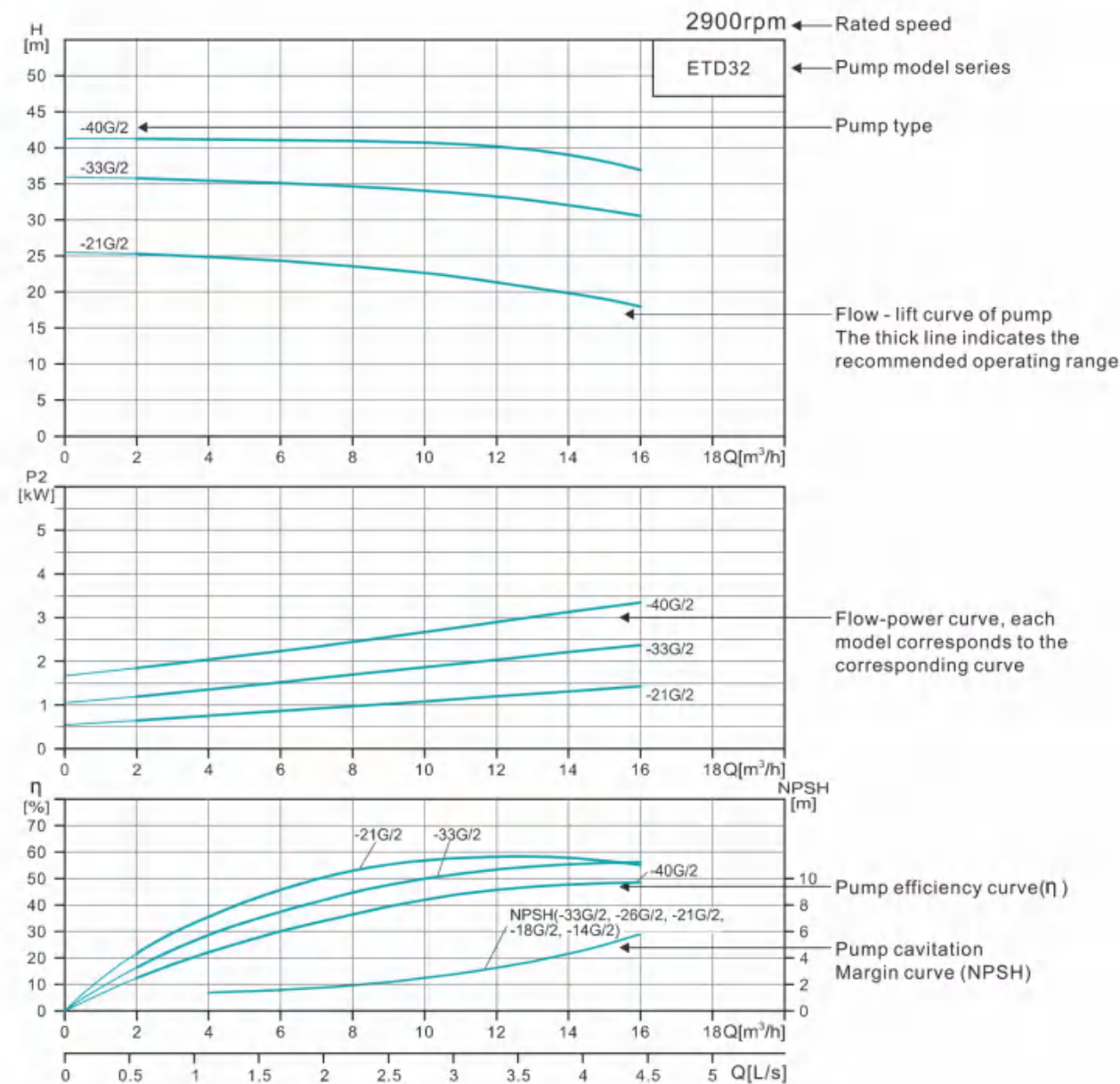
Product Range

No.	Model	Q[m³/h]	H[m]	n[r/min]	Standard motor voltage[V]	
					1x220V	3x380V
					P2[kW]	P2[kW]
1	ETD32-14/2	8	14	2900	0.75	0.75
2	ETD32-18/2	8	18		1.1	1.1
3	ETD32-21/2	12.5	21		1.5	1.5
4	ETD32-26/2	12.5	26		2.2	2.2
5	ETD32-33/2	12.5	33			3
6	ETD32-40/2	12.5	40			4
7	ETD32-50/2	12.5	50			5.5
8	ETD40-14/2	8	14		0.75	0.75
9	ETD40-16/2	12.5	16		1.1	1.1
10	ETD40-21/2	12.5	21		1.5	1.5
11	ETD40-20/2	20	20		2.2	2.2
12	ETD40-26/2	20	26			3
13	ETD40-30/2	25	30			4
14	ETD40-36/2	25	36			5.5
15	ETD40-48/2	25	48			7.5
16	ETD50-32/2	12.5	32			3
17	ETD50-39/2	12.5	39			4
18	ETD50-49/2	12.5	49			5.5
19	ETD50-59/2	12.5	59			7.5
20	ETD50-80/2	12.5	80			11
21	ETD50-12/2	16	12		1.1	1.1
22	ETD50-15/2	20	15		1.5	1.5
23	ETD50-18/2	25	18		2.2	2.2
24	ETD50-24/2	25	24			3
25	ETD50-28/2	30	28			4
26	ETD50-35/2	30	35			5.5
27	ETD50-40/2	35	40			7.5
28	ETD50-50/2	40	50			11
29	ETD50-60/2	50	60			15
30	ETD50-70/2	50	70			18.5
31	ETD50-81/2	50	81			22
32	ETD65-37/2	25	37			5.5
33	ETD65-48/2	25	48			7.5
34	ETD65-15/2	30	15		2.2	2.2
35	ETD65-20/2	30	20			3
36	ETD65-22/2	40	22			4
37	ETD65-30/2	40	30			5.5
38	ETD65-34/2	50	34			7.5
39	ETD65-41/2	50	41			11
40	ETD65-51/2	50	51			15
41	ETD65-61/2	50	61			18.5
42	ETD65-68/2	50	68			22
43	ETD65-85/2	50	85			30
44	ETD80-41/2	50	41			11
45	ETD80-48/2	50	48			15
46	ETD80-13/2	50	13			3
47	ETD80-18/2	50	18			4
48	ETD80-23/2	50	23			5.5
49	ETD80-29/2	50	29			7.5
50	ETD80-32/2	70	32			11
51	ETD80-38/2	80	38			15
52	ETD80-47/2	80	47			18.5
53	ETD80-54/2	80	54			22
54	ETD80-67/2	80	67			30
55	ETD100-9/2	50	9			2.2
56	ETD100-15/2	60	15			4
57	ETD100-17/2	80	17			5.5

Product Range

No.	Model	Q[m³/h]	H[m]	n[r/min]	Standard motor voltage[V]	
					1x220V	3x380V
					P2[kW]	P2[kW]
58	ETD100-22/2	80	22	2900		7.5
59	ETD100-27/2	100	27			11
60	ETD100-33/2	100	33			15
61	ETD100-40/2	100	40			18.5
62	ETD100-48/2	100	48			22
63	ETD100-52/2	130	52	1450		30
64	ETD125-11/4	120	11			5.5
65	ETD125-14/4	120	14			7.5
66	ETD125-19/4	140	19			11
67	ETD125-22/4	160	22			15
68	ETD125-28/4	160	28	1480		18.5
69	ETD125-32/4	160	32			22
70	ETD125-40/4	160	40			30
71	ETD125-48/4	160	48			37
72	ETD150-12.5/4	200	2.5			11
73	ETD150-17/4	200	17			15
74	ETD150-22/4	200	22			18.5
75	ETD150-25/4	200	25			22
76	ETD150-33/4	200	33			30
77	ETD150-40/4	200	40			37
78	ETD150-50/4	200	50			45
79	ETD200-16/4	300	16			18.5
80	ETD200-19/4	300	19			22
81	ETD200-24/4	300	24			30
82	ETD200-31/4	300	31			37
83	ETD200-36/4	300	36			45
84	ETD200-47/4	300	47			55
85	ETD200-53/4	300	53			75
86	ETD200-12.5/4	400	12.5			22
87	ETD200-20/4	400	20			30
88	ETD200-23/4	400	23			37
89	ETD200-27/4	400	27			45
90	ETD200-32/4	400	32			55
91	ETD200-43/4	400	43			75
92	ETD200-50/4	400	50			90
93	ETD250-16/4	500	16			30
94	ETD250-19/4	500	19			37
95	ETD250-22/4	500	22			45
96	ETD250-29/4	500	29			55
97	ETD250-36/4	500	36			75
98	ETD250-47/4	500	47			90
99	ETD250-56/4	500	56			110
100	ETD250-12.5/4	630	12.5			30
101	ETD250-14/4	630	14			37
102	ETD250-17/4	630	17			45
103	ETD250-20/4	630	20			55
104	ETD250-26/4	630	26			75
105	ETD250-32/4	630	32			90
106	ETD250-40/4	630	40			110
107	ETD250-50/4	630	50			132
108	ETD300-15/4	900	15			55
109	ETD300-20/4	900	20			75
110	ETD300-25/4	900	25			90
111	ETD300-30/4	900	30			110
112	ETD300-35/4	900	35			132
113	ETD300-44/4	900	44			160
114	ETD300-55/4	900	55			200

Graph

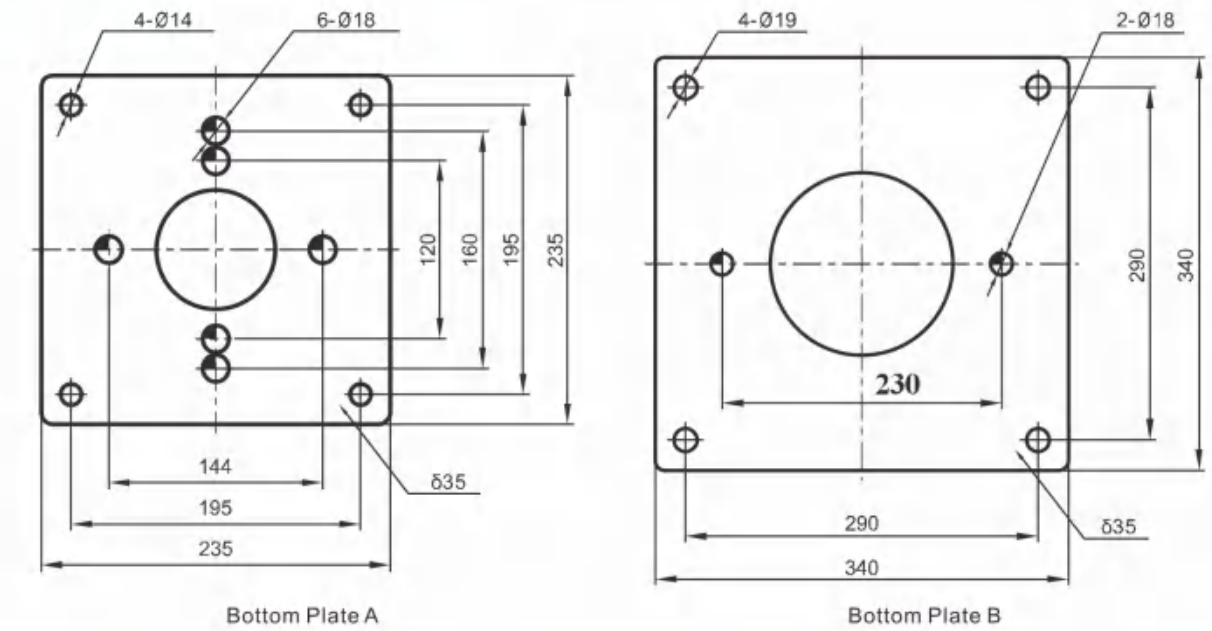


Curve Condition

The following instructions apply to the performance curve shown later:

1. The curve tolerance complies with ISO9906:2012, Grade 3B.
2. All curves are based on measurements of 3 × 380V at constant speeds of 2900rpm, 1480rpm, or 1450rpm for the motor.
3. The experimental medium is clean water with a temperature of 20°C, free from any solid impurities and air.
4. The use of pumps refers to the performance range of the bold curve to prevent overheating caused by low flow and motor overload caused by excessive flow.
5. If the viscosity or density of the pumped liquid is different from that of water, the motor performance must be adjusted.

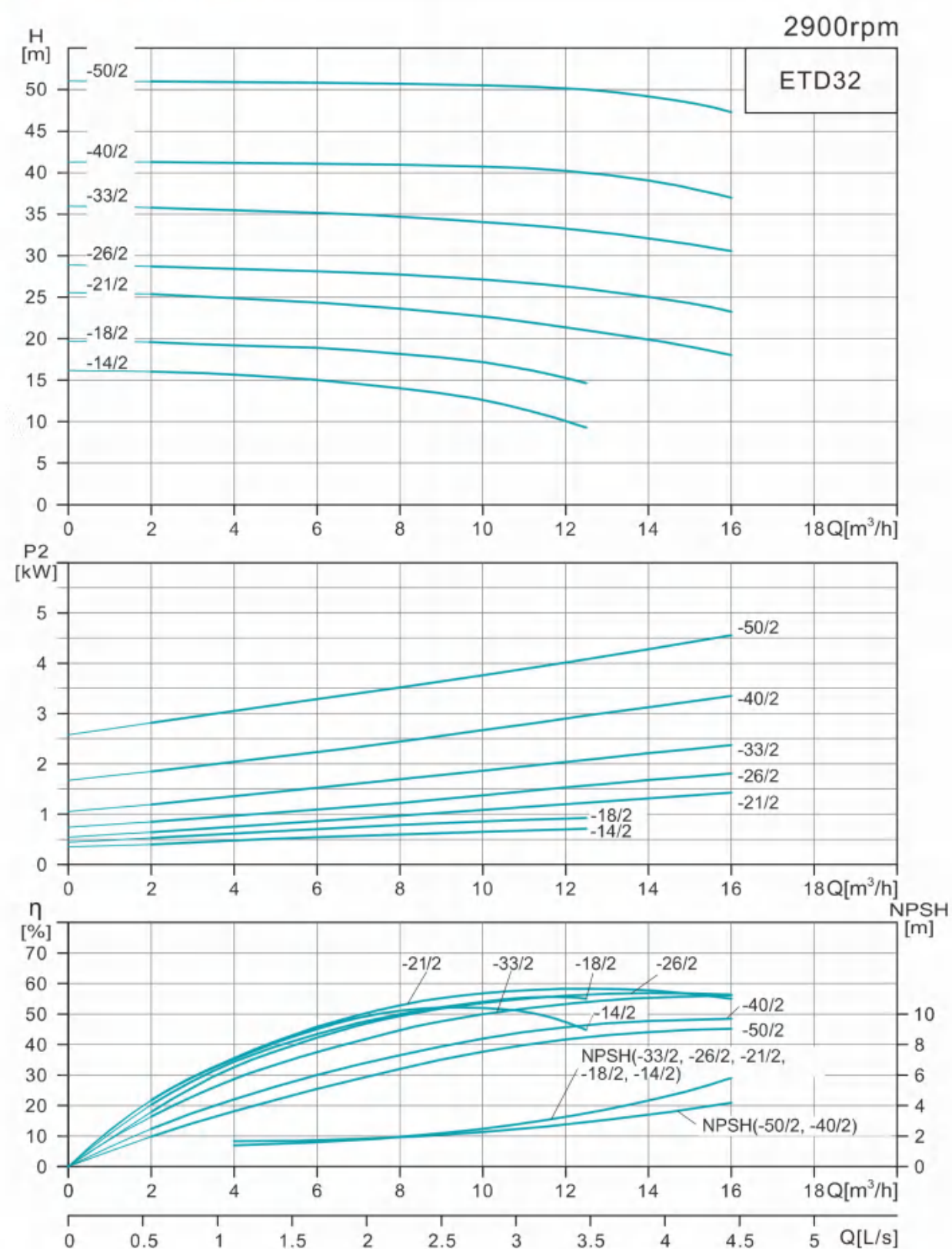
Accessories - Bottom Plate



No.	Model	Plate model	No.	Model	Plate model	No.	Model	Plate model
1	ETD32-14/2	A	27	ETD50-40/2	A	53	ETD80-54/2	A
2	ETD32-18/2	A	28	ETD50-50/2	A	54	ETD80-67/2	A
3	ETD32-21/2	A	29	ETD50-60/2	A	55	ETD100-9/2	A
4	ETD32-26/2	A	30	ETD50-70/2	A	56	ETD100-15/2	A
5	ETD32-33/2	A	31	ETD50-81/2	A	57	ETD100-17/2	A
6	ETD32-40/2	A	32	ETD65-37/2	A	58	ETD100-22/2	A
7	ETD32-50/2	A	33	ETD65-48/2	A	59	ETD100-27/2	A
8	ETD40-14/2	A	34	ETD65-15/2	A	60	ETD100-33/2	A
9	ETD40-16/2	A	35	ETD65-20/2	A	61	ETD100-40/2	B
10	ETD40-21/2	A	36	ETD65-22/2	A	62	ETD100-48/2	B
11	ETD40-20/2	A	37	ETD65-30/2	A	63	ETD100-52/2	B
12	ETD40-26/2	A	38	ETD65-34/2	A	64	ETD125-11/4	B
13	ETD40-30/2	A	39	ETD65-41/2	A	65	ETD125-14/4	B
14	ETD40-36/2	A	40	ETD65-51/2	A	66	ETD125-19/4	B
15	ETD40-48/2	A	41	ETD65-61/2	A	67	ETD125-22/4	B
16	ETD50-32/2	A	42	ETD65-68/2	A	68	ETD125-28/4	B
17	ETD50-39/2	A	43	ETD65-85/2	A	69	ETD125-32/4	B
18	ETD50-49/2	A	44	ETD80-41/2	A	70	ETD125-40/4	B
19	ETD50-59/2	A	45	ETD80-48/2	A	71	ETD125-48/4	B
20	ETD50-80/2	A	46	ETD80-13/2	A	72	ETD150-12.5/4	B
21	ETD50-12/2	A	47	ETD80-18/2	A	73	ETD150-17/4	B
22	ETD50-15/2	A	48	ETD80-23/2	A	74	ETD150-22/4	B
23	ETD50-18/2	A	49	ETD80-29/2	A	75	ETD150-25/4	B
24	ETD50-24/2	A	50	ETD80-32/2	A	76	ETD150-33/4	B
25	ETD50-28/2	A	51	ETD80-38/2	A	77	ETD150-40/4	B
26	ETD50-35/2	A	52	ETD80-47/2	A	78	ETD150-50/4	B

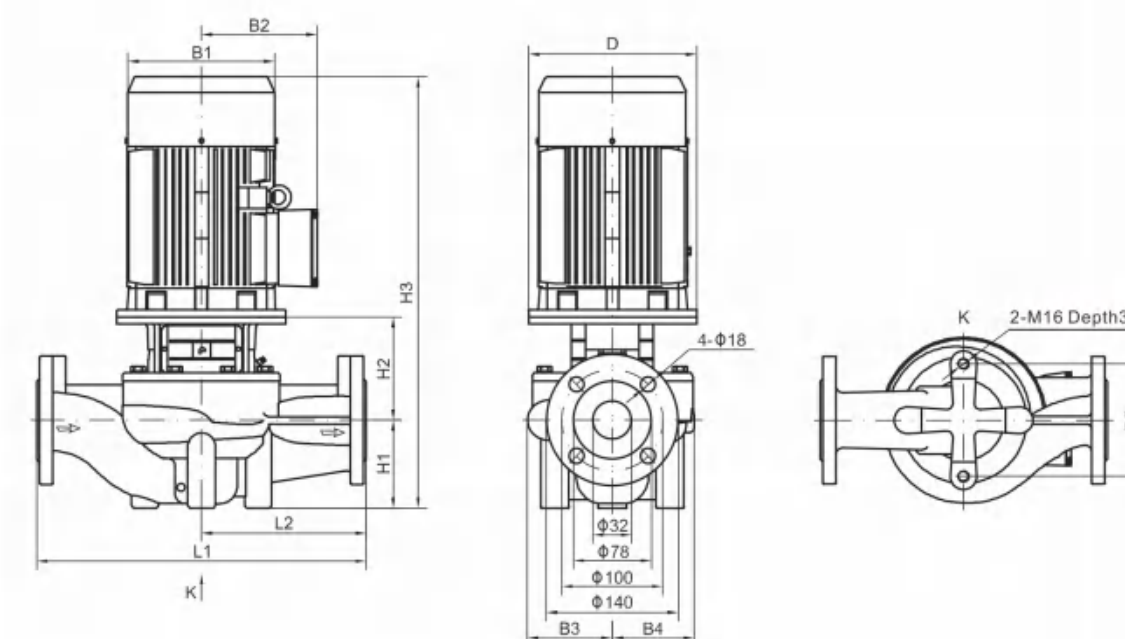
Note: the bottom plate is optional, and customers who need it need to indicate it when ordering!

Performance Curve



ETD32 Performance Table

Model	Power (kW)	Q (m³/h)	2	4	6	8	10	12.5	14	16
ETD32-14/2	0.75	H (m)	16	15.7	15.1	14	12.6	9.3		
ETD32-18/2	1.1		19.6	19.3	18.9	18	17.2	14.6		
ETD32-21/2	1.5		25.3	24.9	24.3	23.6	22.6	21	19.9	18
ETD32-26/2	2.2		28.7	28.4	28.1	27.7	27.1	26	25	23.2
ETD32-33/2	3		35.8	35.5	35.1	34.7	34.1	33	32.1	30.6
ETD32-40/2	4		41.3	41.2	41.1	41	40.7	40	39.1	37
ETD32-50/2	5.5		51	50.9	50.8	50.7	50.5	50	49.2	47.3

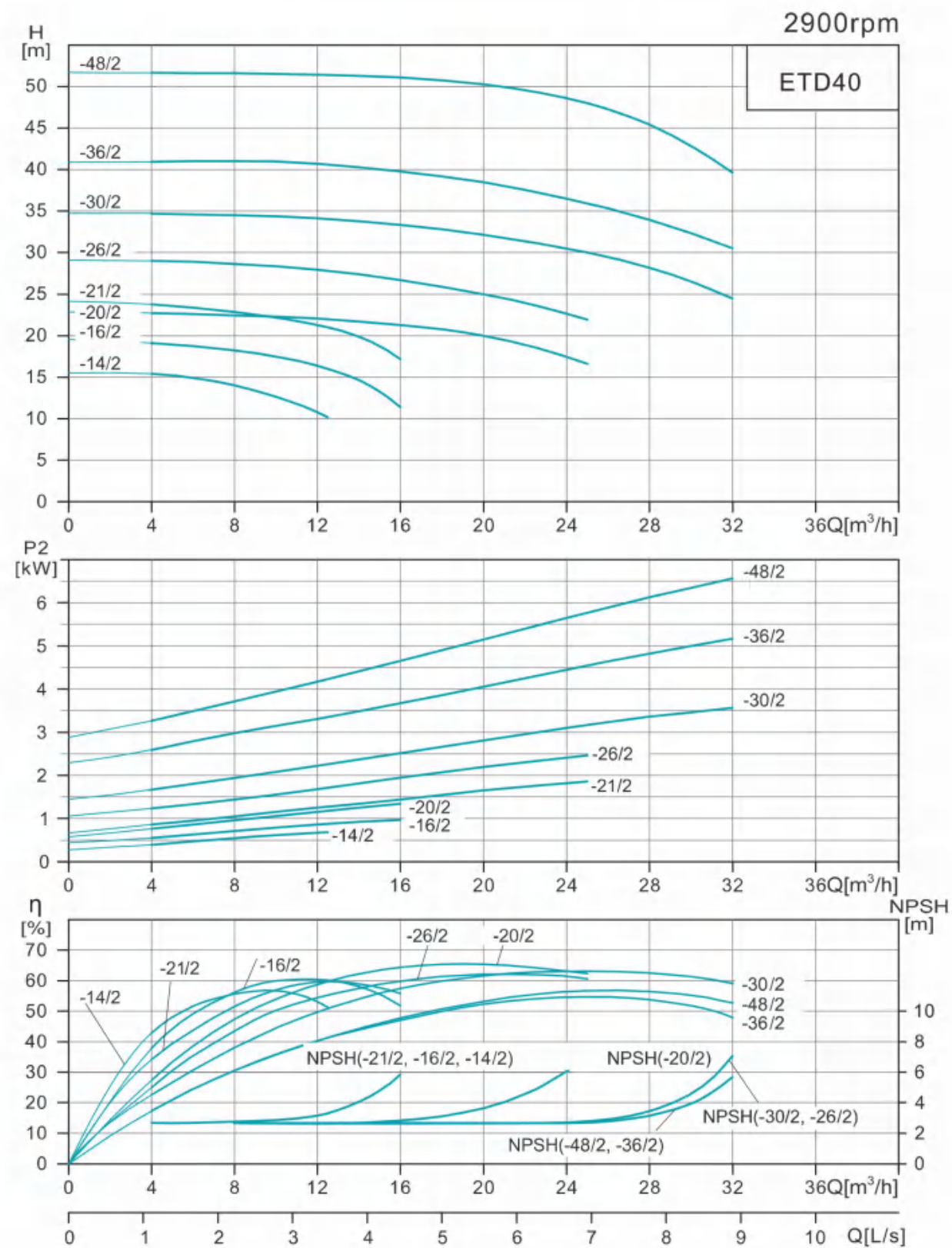


Dimension And Weight

Model	Dimension(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
ETD32-14/2	120	151	125	101	101	144	90	135	469	320	160	33
ETD32-18/2	120	151	125	101	101	144	90	135	469	320	160	34
ETD32-21/2	140	171	137	101	101	144	90	137	514	320	160	38
ETD32-26/2	140	171	137	101	101	144	90	137	514	320	160	42
ETD32-33/2	160	196	150	109	109	144	90	145	572	340	170	52
ETD32-40/2	160	214	169	128	128	144	100	151	593	360	180	65
ETD32-50/2	200	257	190	128	128	144	100	173	656	360	180	84

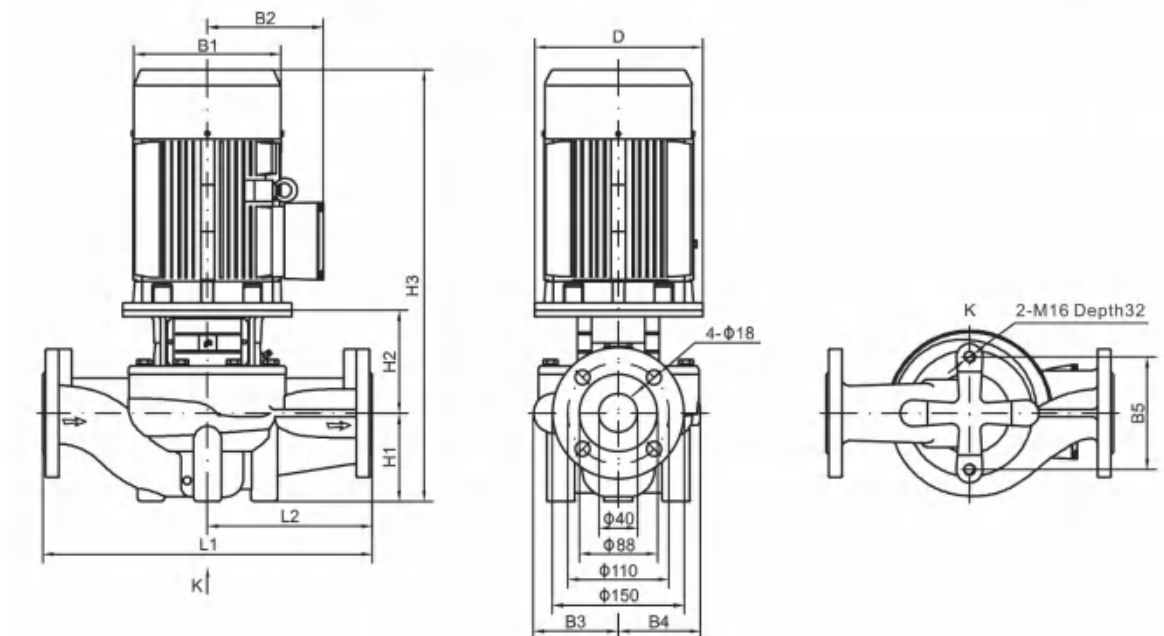
Note: the dimensions of single-phase motor and flameproof motor have changed, please consult our company for details!

Performance Curve



ETD40 Performance Table

Model	Power (kW)	Q (m³/h)	4	8	12.5	16	20	25	28	32
ETD40-14/2	0.75	H (m)	15.4	14	10.2					
ETD40-16/2	1.1		19.1	18.2	16	11.4				
ETD40-21/2	1.5		23.8	22.9	21	17.1				
ETD40-20/2	2.2		22.7	22.5	22	21.3	20	16.6		
ETD40-26/2	3		29	28.6	27.8	26.7	25	21.9		
ETD40-30/2	4		34.7	34.5	34.1	33.4	32.2	30	28.2	24.5
ETD40-36/2	5.5		40.9	41	40.7	39.8	38.5	36	34.1	30.5
ETD40-48/2	7.5		51.6	51.6	51.4	51.1	50.3	48	45.4	39.6

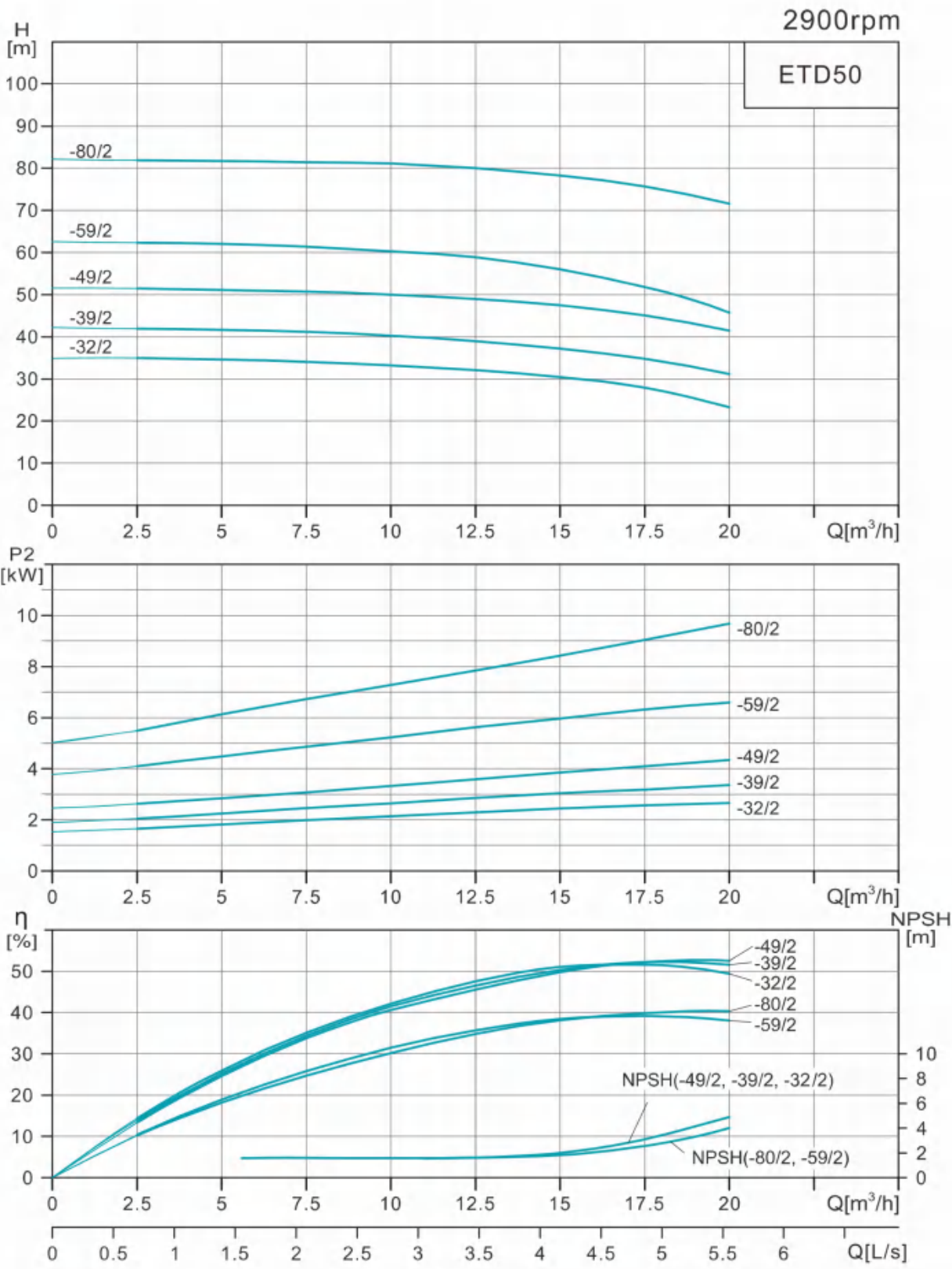


Dimension And Weight

Model	Dimension(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
ETD40-14/2	122	151	125	98	95	120	68	139	451	320	160	31
ETD40-16/2	122	151	125	98	95	120	68	139	451	320	160	32
ETD40-21/2	140	171	137	98	95	120	68	149	504	320	160	38
ETD40-20/2	140	171	137	105	95	144	85	144	516	320	160	43
ETD40-26/2	160	196	150	116	109	144	85	156	578	340	170	54
ETD40-30/2	160	214	169	116	109	144	85	156	583	340	170	62
ETD40-36/2	200	257	190	133	128	144	90	181	654	380	190	85
ETD40-48/2	200	257	190	133	128	144	90	181	654	380	190	94

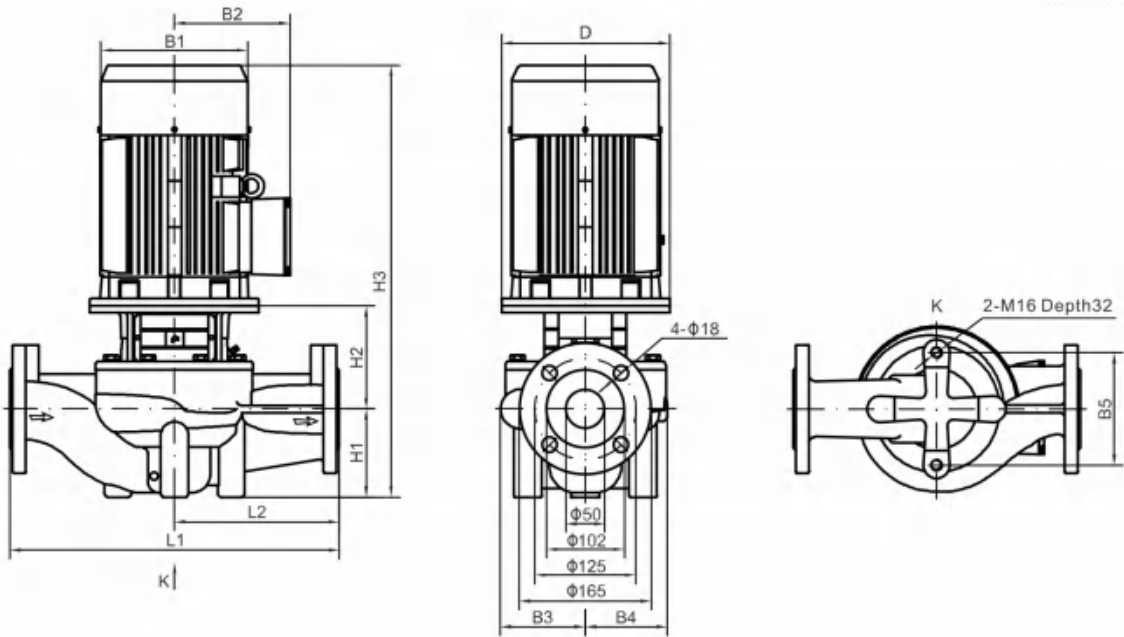
Note: the dimensions of single-phase motor and flameproof motor have changed, please consult our company for details!!

Performance Curve



ETD50 Performance Table

Model	Power (kW)	Q (m³/h)	2.5	5	7.5	10	12.5	15	17.5	20
ETD50-32/2	3	H (m)	35	34.6	34	33.2	33	30.5	27.9	23.3
ETD50-39/2	4		41.9	41.7	41.3	40.2	39	37.2	34.8	31.2
ETD50-49/2	5.5		51.6	51.2	50.7	50	49	47.5	45.1	41.5
ETD50-59/2	7.5		62.4	62.1	61.4	60.3	59	56.1	51.9	45.7
ETD50-80/2	11		81.9	81.7	81.5	81.1	80	78.3	75.7	71.6

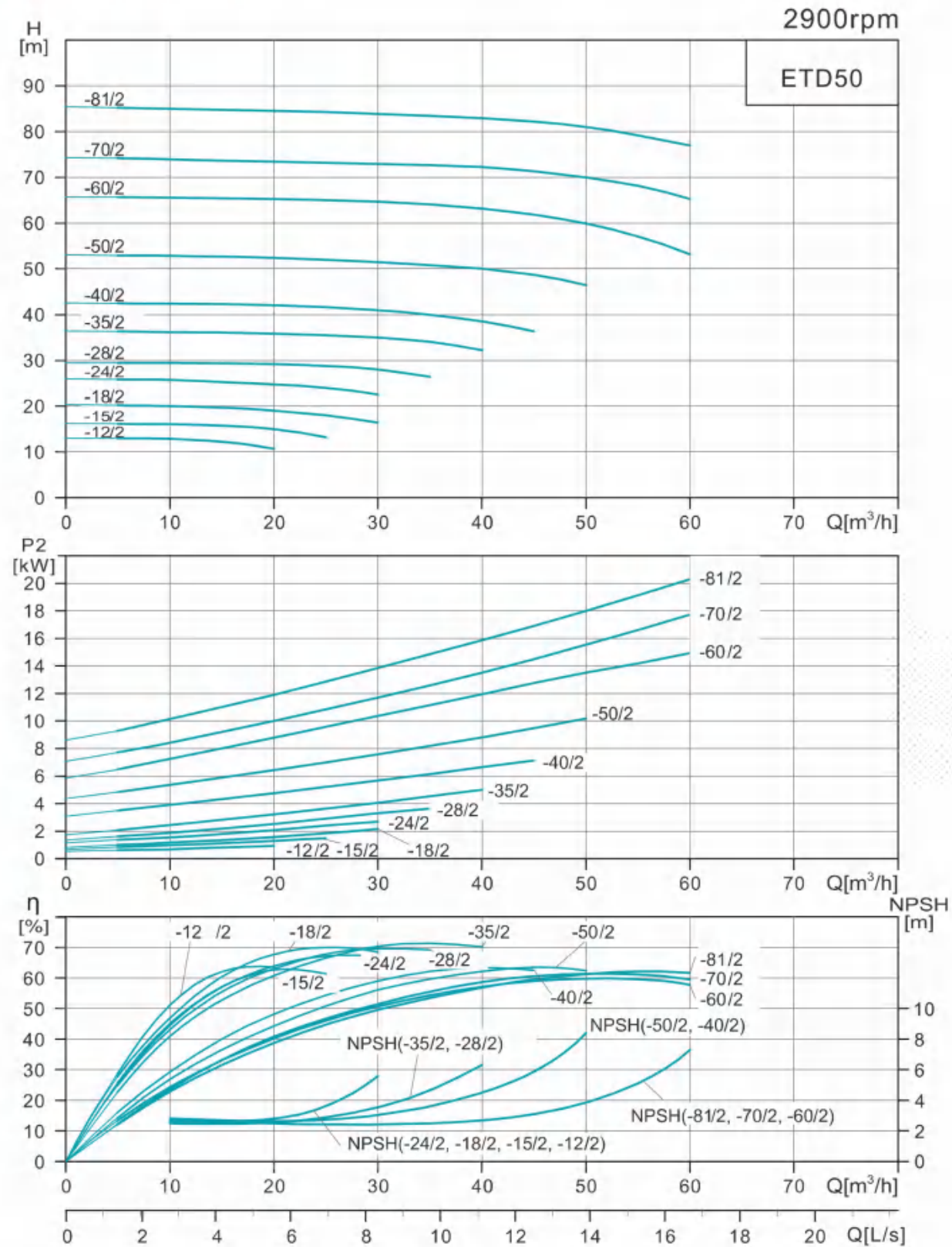


Dimension And Weight

Model	Dimension(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
ETD50-32/2	160	196	150	128	128	144	105	150	592	400	200	64
ETD50-39/2	160	214	169	128	128	144	105	150	597	400	200	71
ETD50-49/2	200	257	190	128	128	144	105	172	660	400	200	88
ETD50-59/2	200	257	190	163	163	144	105	178	666	440	220	112
ETD50-80/2	350	314	261	163	163	144	105	222	783	440	220	184

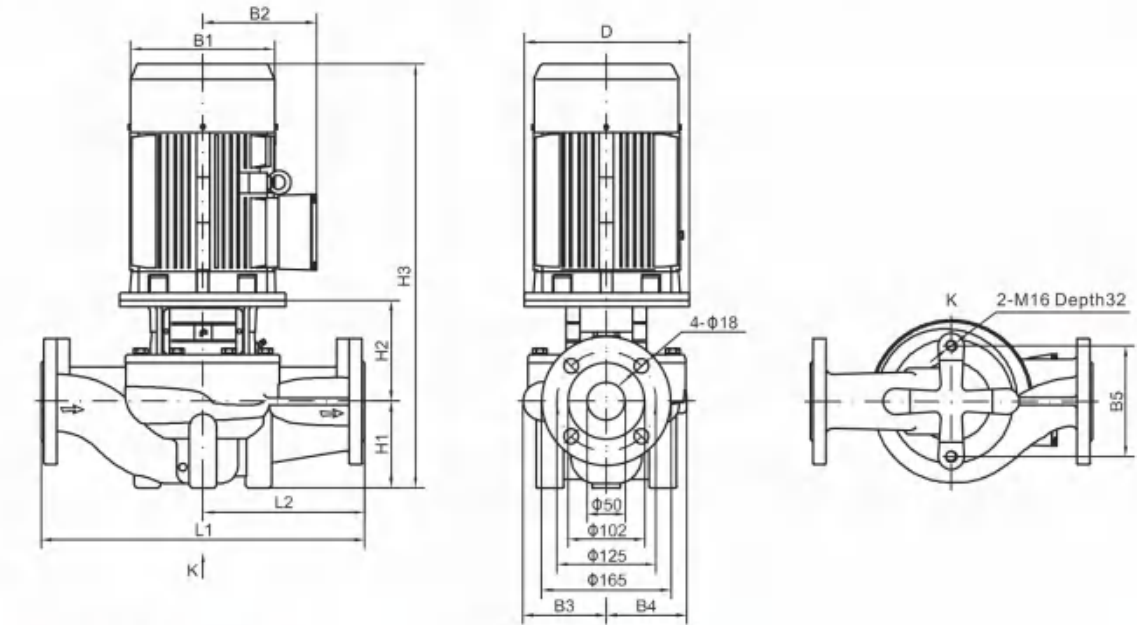
Note: the dimensions of flameproof motor have changed, please consult our company for details!!

Performance Curve



ETD50 Performance Table

Model	Power (kW)	Q (m³/h)	5	10	16	20	25	30	35	40	45	50	60
ETD50-12/2	1.1	H (m)	13	12.9	12	10.7							
ETD50-15/2	1.5		16.1	16.1	15.6	15	13.3						
ETD50-18/2	2.2		20.2	20	19.6	19	18	16.4					
ETD50-24/2	3		25.9	25.7	25.2	24.8	24	22.6					
ETD50-28/2	4		29.5	29.5	29.3	29.2	28.8	28	26.4				
ETD50-35/2	5.5		36.3	36.2	36	35.9	35.5	35	34.1	32.2			
ETD50-40/2	7.5		42.5	42.4	42.2	42.1	41.7	41	40	38.5	36.4		
ETD50-50/2	11		53	52.9	52.6	52.4	52	51.5	50.9	50	48.7	48.4	
ETD50-60/2	15		65.8	65.7	65.7	65.6	65.3	64.7	63.9	62.8	61.6	60	53.2
ETD50-70/2	18.5		73.7	73.6	73.4	73.3	73.1	72.9	72.5	72	71.2	70	65.4
ETD50-81/2	22		85.5	85.3	85	84.8	84.5	84	83.5	82.8	82.1	81	77.1

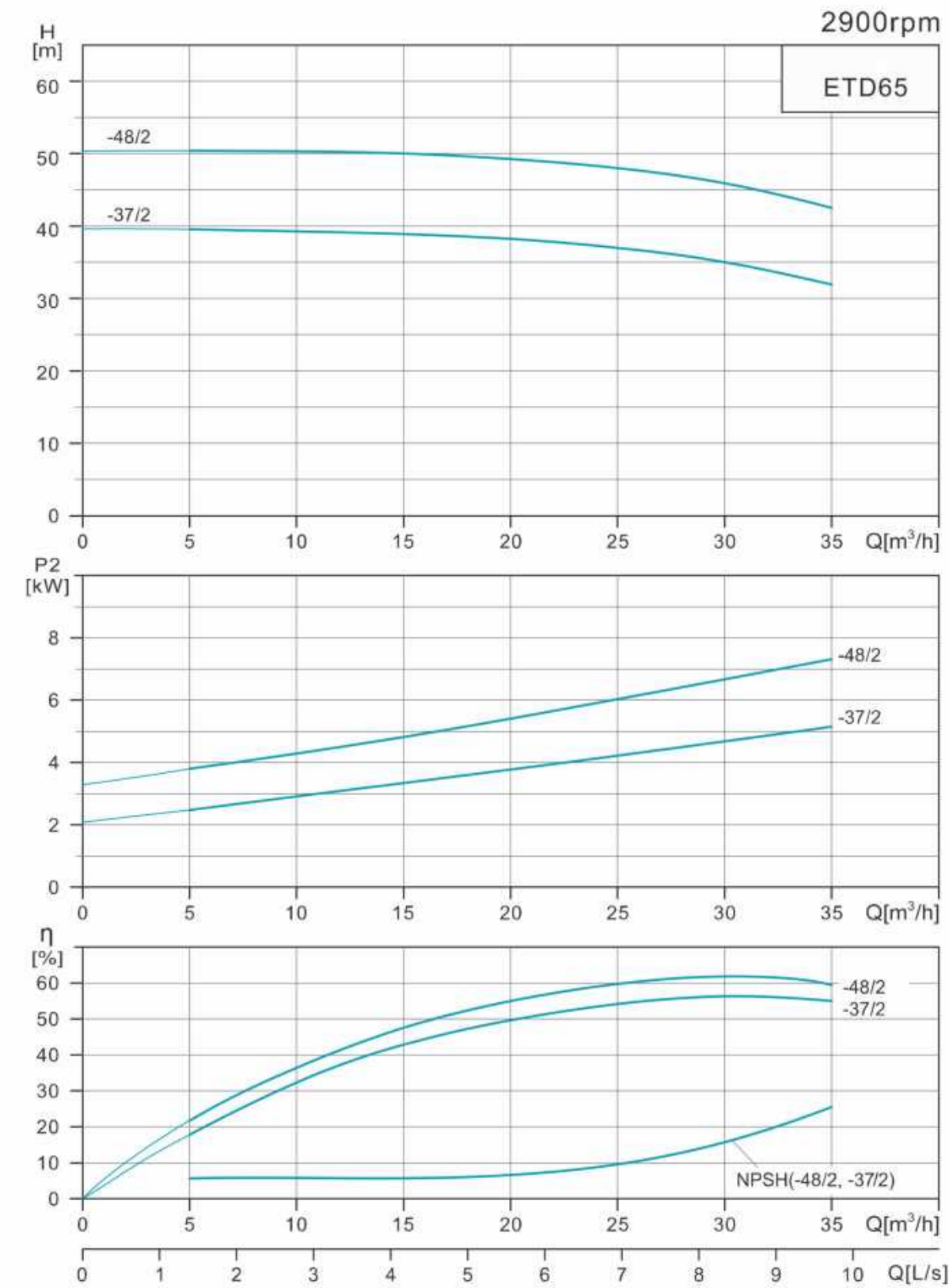


Dimension And Weight

Model	Dimension(mm)											Weight (kg)
ETD50-12/2	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
ETD50-12/2	120	151	125	114	101	144	105	135	484	340	170	37
ETD50-15/2	140	171	137	114	101	144	105	137	529	340	170	42
ETD50-18/2	140	171	137	114	101	144	105	137	529	340	170	45
ETD50-24/2	160	196	150	114	101	144	105	147	589	340	170	55
ETD50-28/2	160	214	169	118	109	144	105	152	599	340	170	64
ETD50-35/2	200	257	190	118	109	144	105	175	663	340	170	81
ETD50-40/2	200	257	190	142	138	144	105	175	663	400	200	98
ETD50-50/2	350	314	261	142	138	144	105	225	830	400	200	173
ETD50-60/2	350	314	261	171	163	144	115	225	840	440	220	196
ETD50-70/2	350	314	261	171	163	144	115	225	884	440	220	203
ETD50-81/2	350	355	273	171	163	144	115	225	917	440	220	256

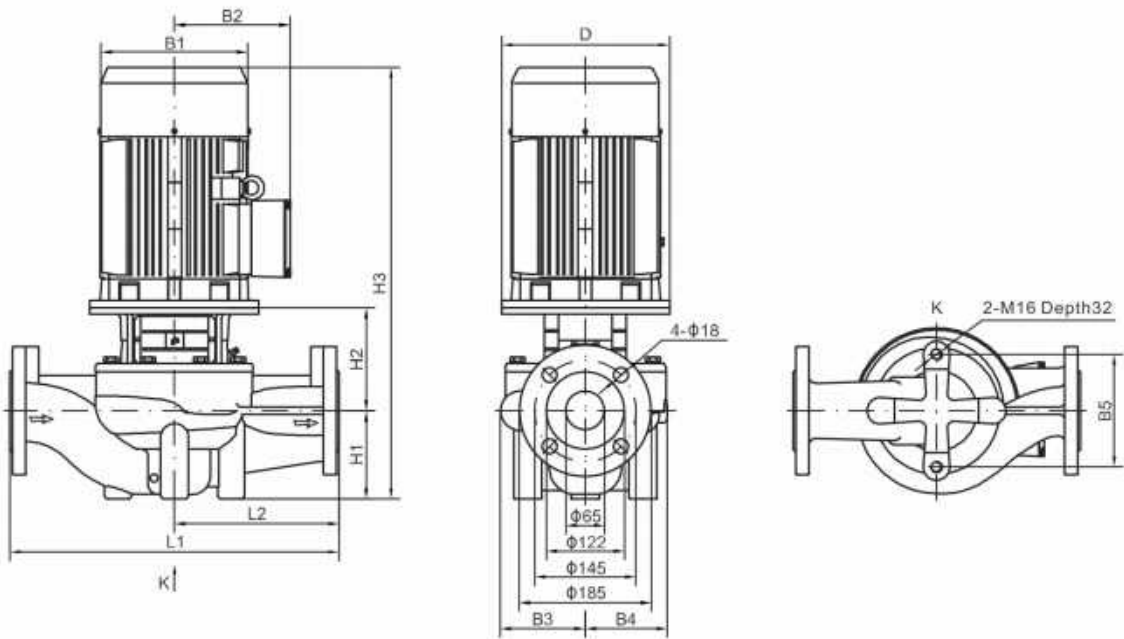
Note: the dimensions of flameproof motor have changed, please consult our company for details!!

Performance Curve



ETD65 Performance Table

Model	Power (kW)	Q (m³/h)	5	10	15	20	25	30	35
ETD65-37/2	5.5	H (m)	39.6	39.3	39	38.2	37	35	32.1
ETD65-48/2	7.5		50.4	50.3	50	49.3	48	45.9	42.6

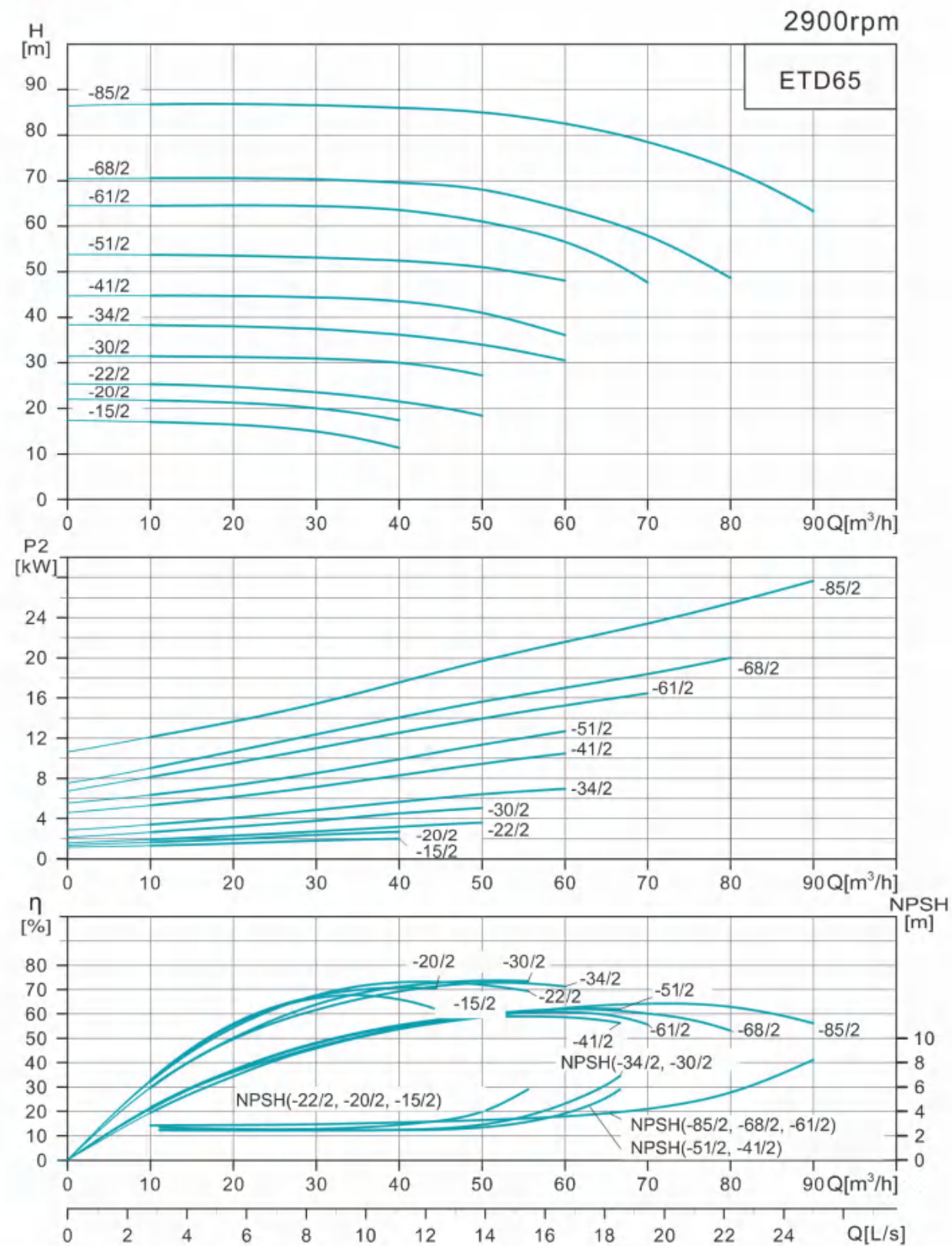


Dimension And Weight

Model	Dimension(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
ETD65-37/2	200	257	190	128	128	144	105	180	668	400	200	90
ETD65-48/2	200	257	190	128	128	144	105	180	668	400	200	98

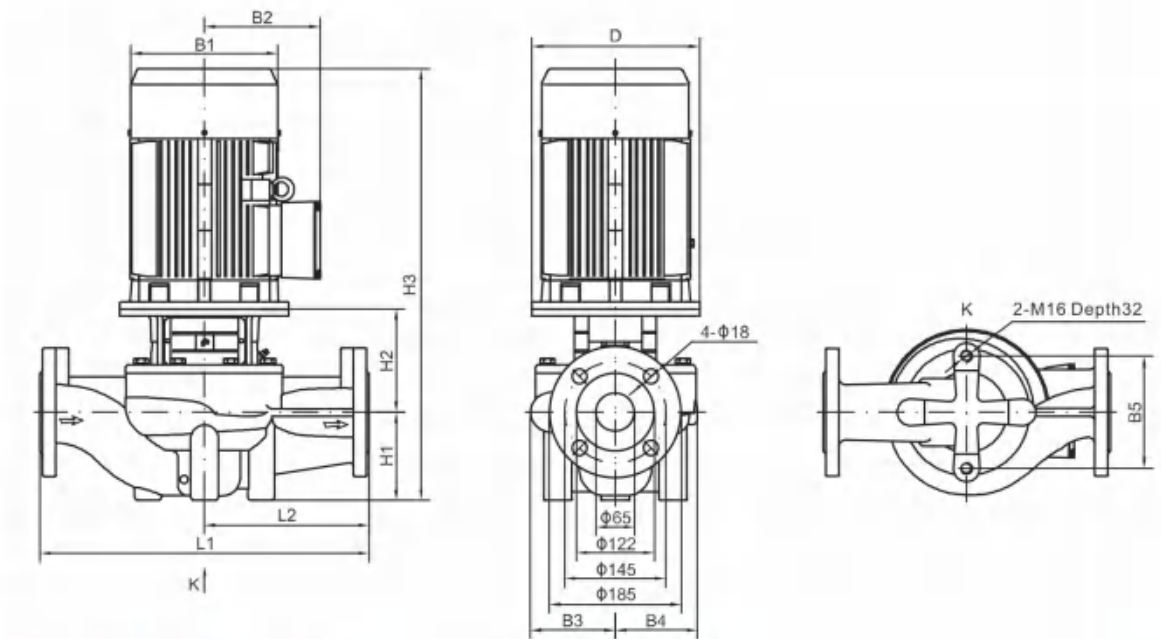
Note: the dimensions of flameproof motor have changed, please consult our company for details!!

Performance Curve



ETD65 Performance Table

Model	Power (kW)	Q (m³/h)	10	20	30	40	50	60	70	80	90
ETD65-15/2	2.2	H (m)	17.1	16.4	15	11.3					
ETD65-20/2	3		21.8	21.2	20	17.4					
ETD65-22/2	4		25.1	24.8	23.9	22	18.4				
ETD65-30/2	5.5		31.5	31.3	31	30	27.3				
ETD65-34/2	7.5		38.3	38	37.4	36.1	34	30.5			
ETD65-41/2	11		44.8	44.7	44.4	43.5	41	36.1			
ETD65-51/2	15		53.7	53.5	53.1	52.4	51	48			
ETD65-61/2	18.5		64.5	64.6	64.4	63.5	61	56.5	47.6		
ETD65-68/2	22		70.5	70.5	70.3	69.6	68	63.8	58	48.6	
ETD65-85/2	30		86.7	86.7	86.5	86	85	82.5	78.5	72.4	63.3

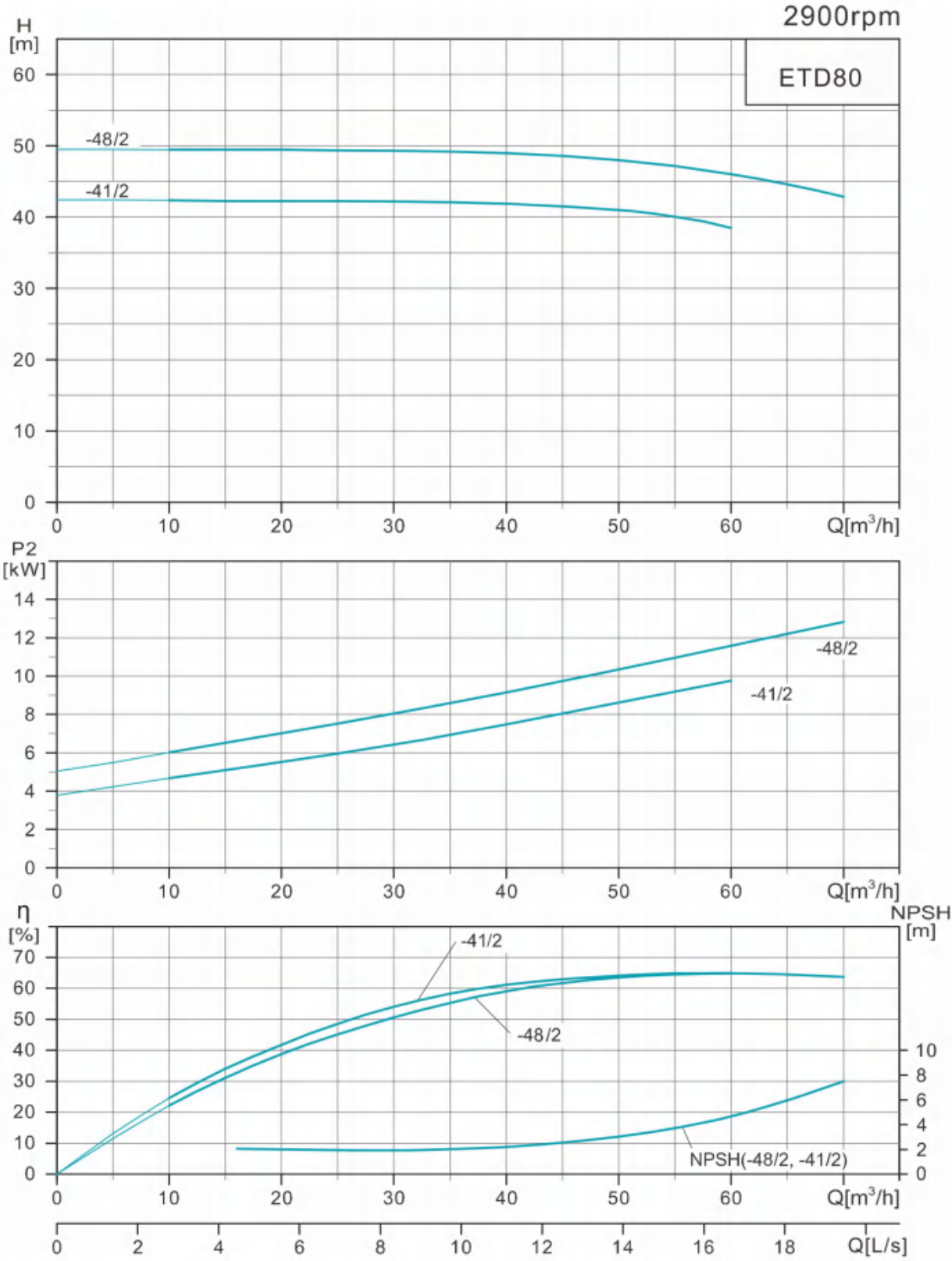


Dimension And Weight

Model	Dimension(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
ETD65-15/2	140	171	137	116	101	144	105	153	545	340	170	48
ETD65-20/2	160	196	150	116	101	144	105	163	605	340	170	57
ETD65-22/2	160	214	169	116	101	144	105	163	610	340	170	64
ETD65-30/2	200	257	190	131	115	144	105	194	682	360	180	85
ETD65-34/2	200	257	190	131	115	144	105	194	682	360	180	94
ETD65-41/2	350	314	261	148	138	144	105	234	839	400	200	173
ETD65-51/2	350	314	261	148	138	144	105	234	839	400	200	188
ETD65-61/2	350	314	261	174	162	160	125	228	897	475	238	208
ETD65-68/2	350	355	273	174	162	160	125	228	930	475	238	260
ETD65-85/2	400	397	314	174	162	160	125	231	1008	475	238	322

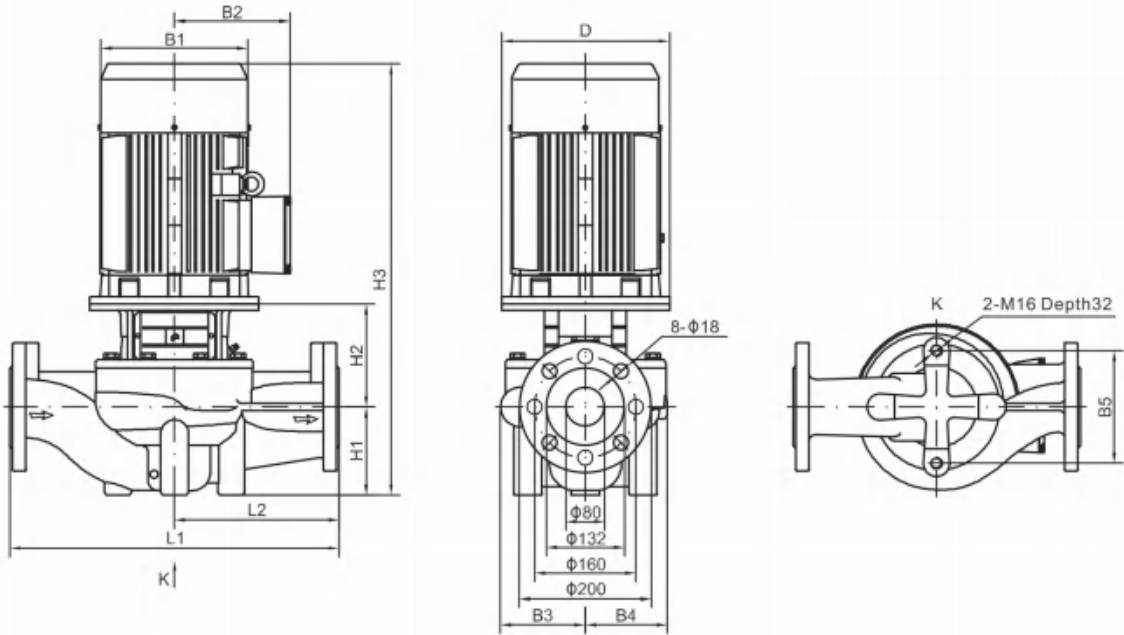
Note: the dimensions of single-phase motor and flameproof motor have changed, please consult our company for details!!

Performance Curve



ETD80 Performance Table

Model	Power (kW)	Q (m³/h)	10	20	30	40	50	60	70
ETD80-41/2	11	H (m)	42.3	42.2	42.1	41.8	41	38.4	
ETD80-48/2	15		49.4	49.4	49.3	49	48	46	42.8

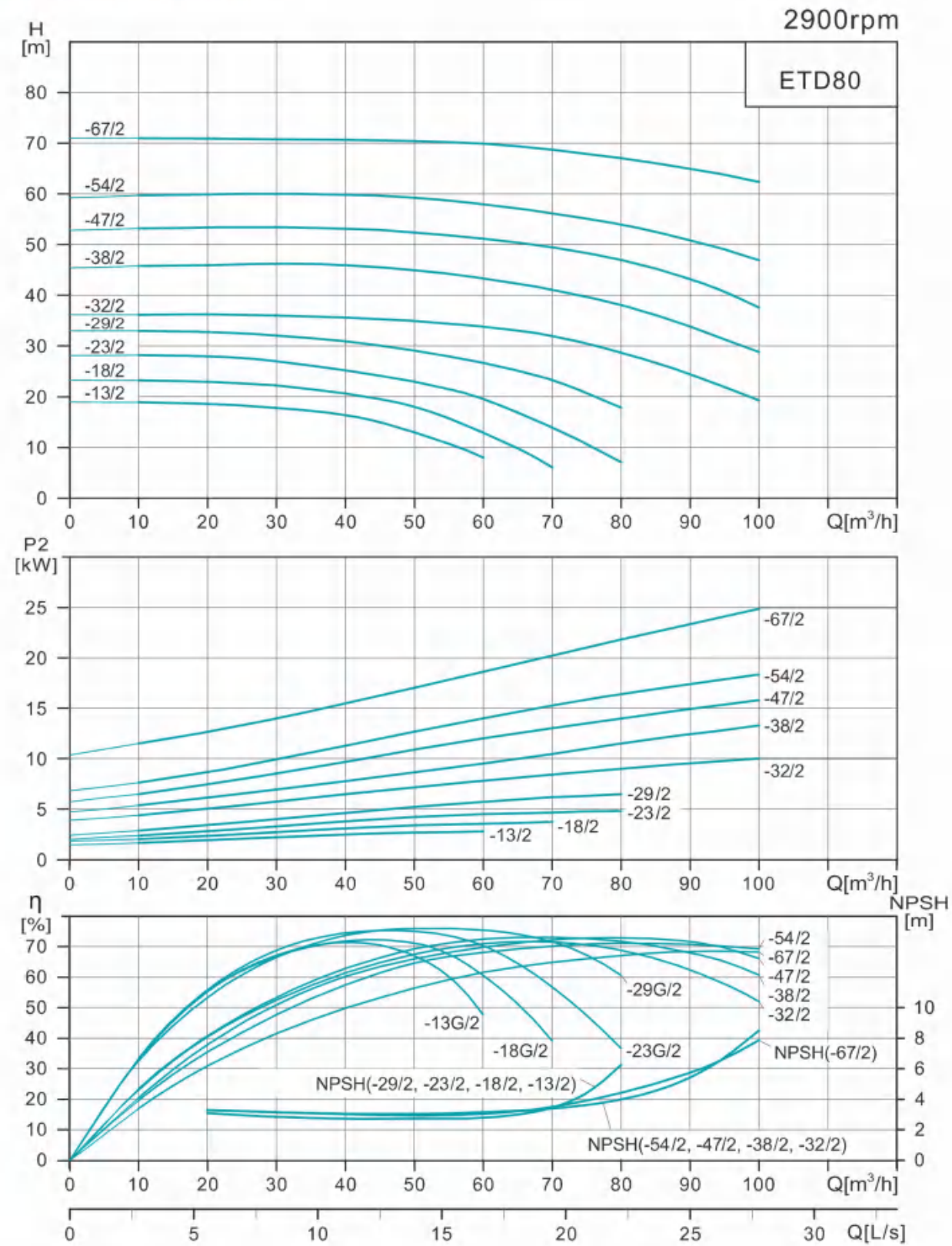


Dimension And Weight

Model	Dimension(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
ETD80-41/2	350	314	261	137	128	144	115	221	836	500	250	176
ETD80-48/2	350	314	261	137	128	144	115	221	836	500	250	191

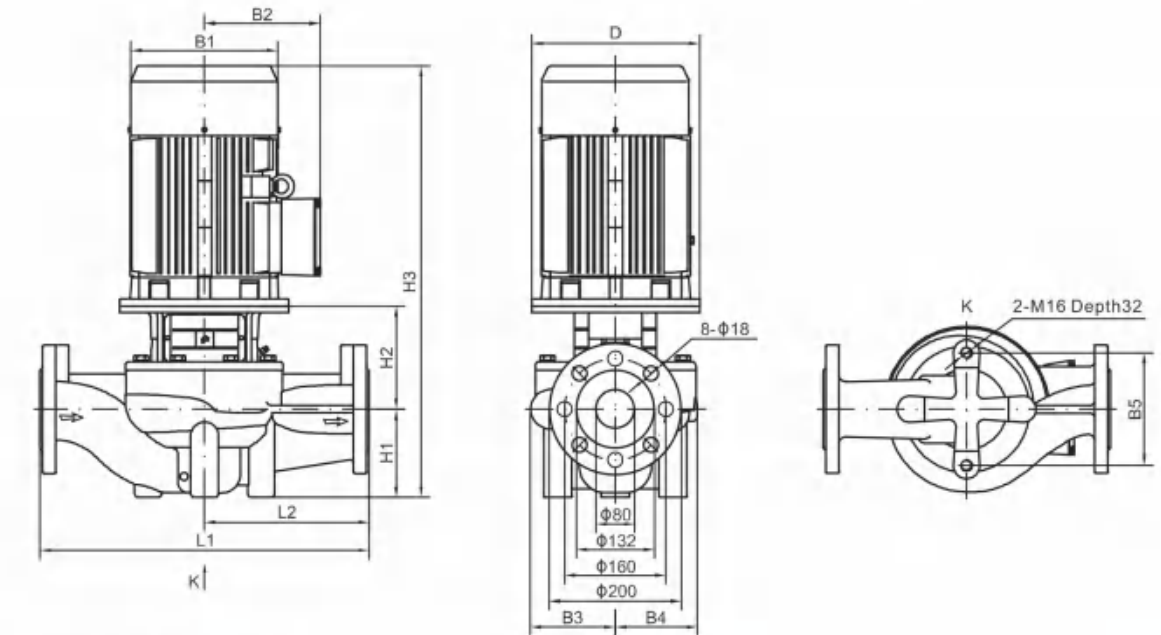
Note: the dimensions of flameproof motor have changed, please consult our company for details!!

Performance Curve



ETD80 Performance Table

Model	Power (kW)	Q (m³/h)	10	20	30	40	50	60	70	80	90	100
ETD80-13/2	3	H (m)	18.9	18.6	17.8	16.3	13	8				
ETD80-18/2	4		23.2	23	22.2	20.6	18	12.9	6			
ETD80-23/2	5.5		28.2	28	27	25.2	23	19.5	13.9	7.1		
ETD80-29/2	7.5		33	32.8	32.1	30.9	29	26.7	23.2	17.8		
ETD80-32/2	11		36.2	36.2	36	35.6	34.9	33.8	32	28.7	24.4	19.3
ETD80-38/2	15		45.7	45.9	46.2	45.9	45	43.3	41.1	38	33.8	28.8
ETD80-47/2	18.5		53.2	53.4	53.4	53.2	52.4	51.2	49.4	47	43.2	37.6
ETD80-54/2	22		59.7	59.9	60	59.8	59.2	58	56.2	54	50.9	46.9
ETD80-67/2	30		71	70.9	70.8	70.6	70.4	69.9	68.7	67	65	62.3

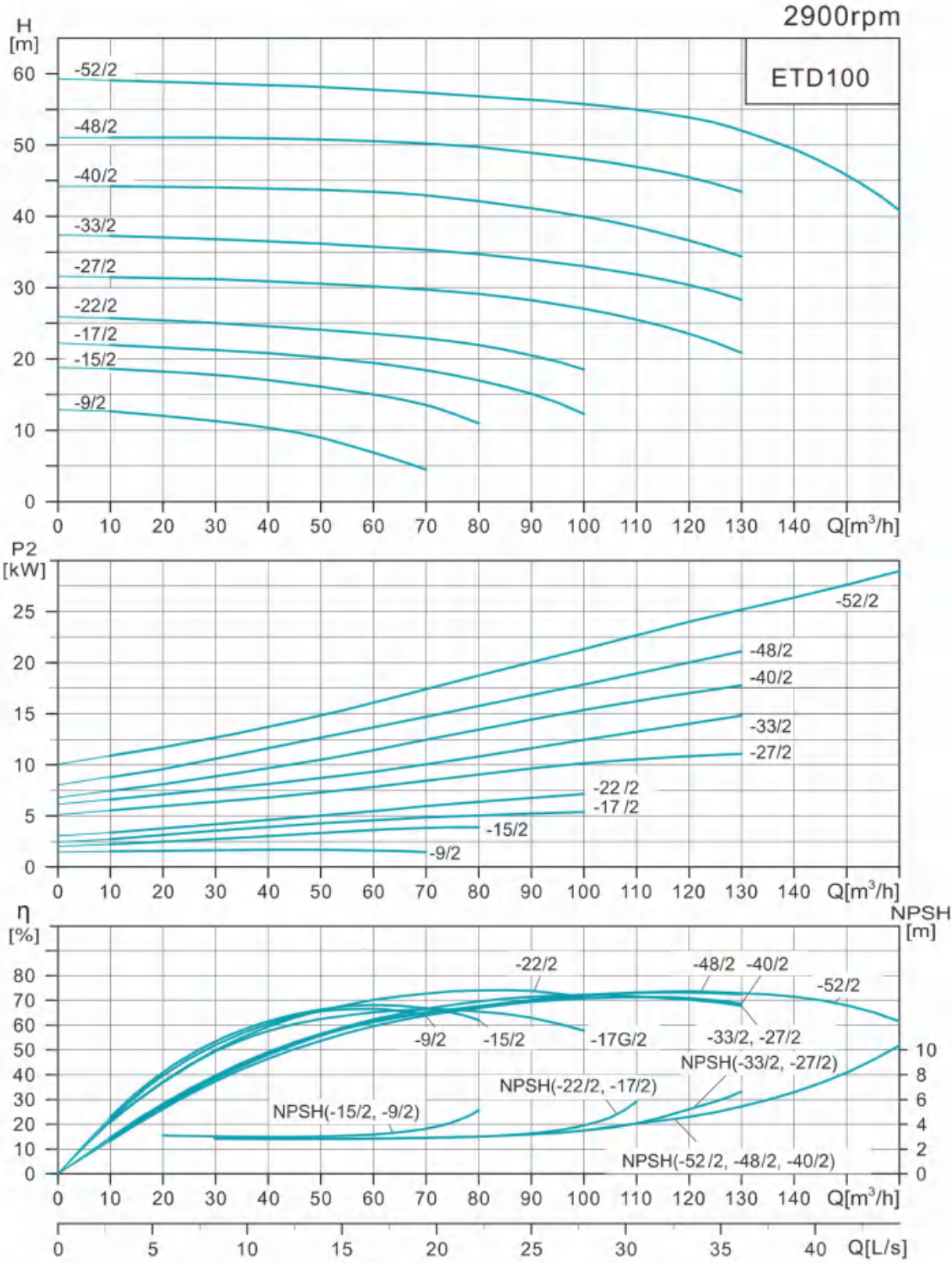


Dimension And Weight

Model	Dimension(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
ETD80-13/2	160	196	150	134	112	144	105	171	613	400	200	63
ETD80-18/2	160	214	169	134	112	144	105	171	618	400	200	70
ETD80-23/2	200	257	190	134	112	144	105	195	683	400	200	87
ETD80-29/2	200	257	190	134	112	144	105	195	683	400	200	95
ETD80-32/2	350	314	261	159	138	144	115	240	855	450	225	179
ETD80-38/2	350	314	261	159	138	144	115	240	855	450	225	194
ETD80-47/2	350	314	261	159	138	144	115	240	899	450	225	203
ETD80-54/2	350	355	273	159	138	144	115	240	932	450	225	256
ETD80-67/2	400	397	314	180	162	160	115	242	1017	500	250	324

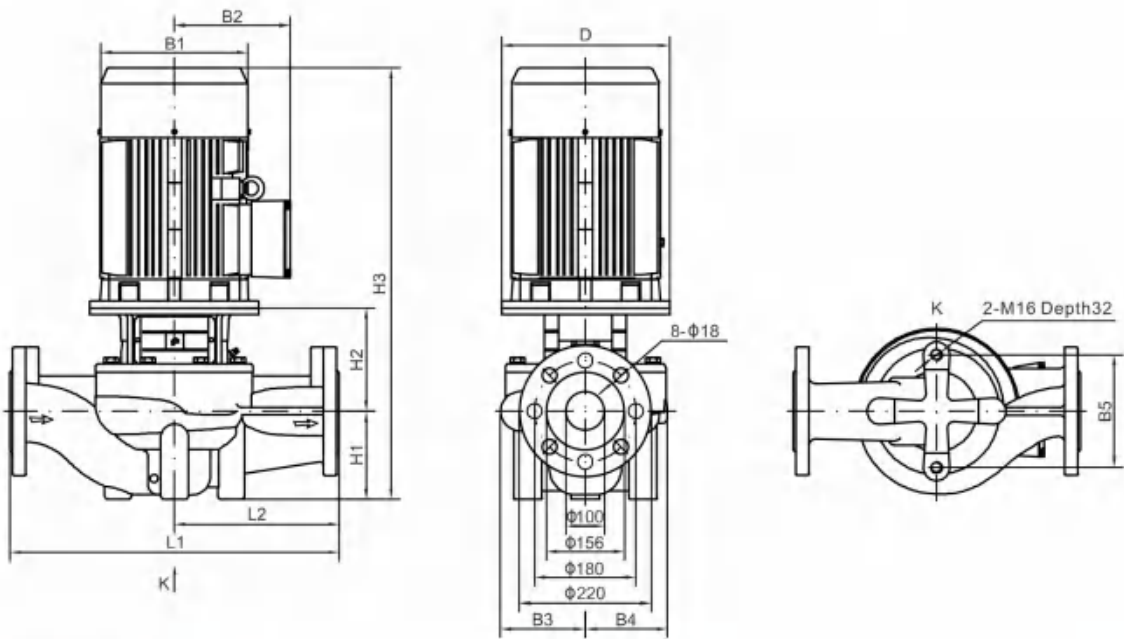
Note: the dimensions of flameproof motor have changed, please consult our company for details!!

Performance Curve



ETD80 Performance Table

Model	Power (kW)	Q (m³/h)	10	20	30	40	50	60	70	80	90	100	110	120	130	145	160
ETD100-9/2	2.2	H (m)	13.9	13.2	12.2	10.8	9	6.8	4.4								
ETD100-15/2	4		18.6	18.2	17.7	17.1	16.2	15	13.4	11							
ETD100-17/2	5.5		21.9	21.6	21.2	20.8	20	19.4	18.4	17	15.1	12.3					
ETD100-22/2	7.5		25.7	25.5	25	24.6	24.1	23.6	22.9	21.9	20.5	18.6					
ETD100-27/2	11		31.5	31.3	31.1	30.9	30.7	30.3	29.8	29.2	28.2	27	25.5	23.6	20.8		
ETD100-33/2	15		37.1	37	36.8	36.6	36.2	35.8	35.3	34.7	33.9	33	31.7	30.1	27.9		
ETD100-40/2	18.5		44.1	44.1	44	43.9	43.7	43.4	42.9	42.1	41.1	40	38.5	36.6	34.3		
ETD100-48/2	22		51.2	51.1	51	51	50.8	50.6	50.2	49.7	48.9	48	47.0	45.5	43.5		
ETD100-52/2	30		59.1	58.9	58.7	58.4	58.2	57.8	57.3	56.9	56.4	55.8	55	53.9	52	47.7	40.8

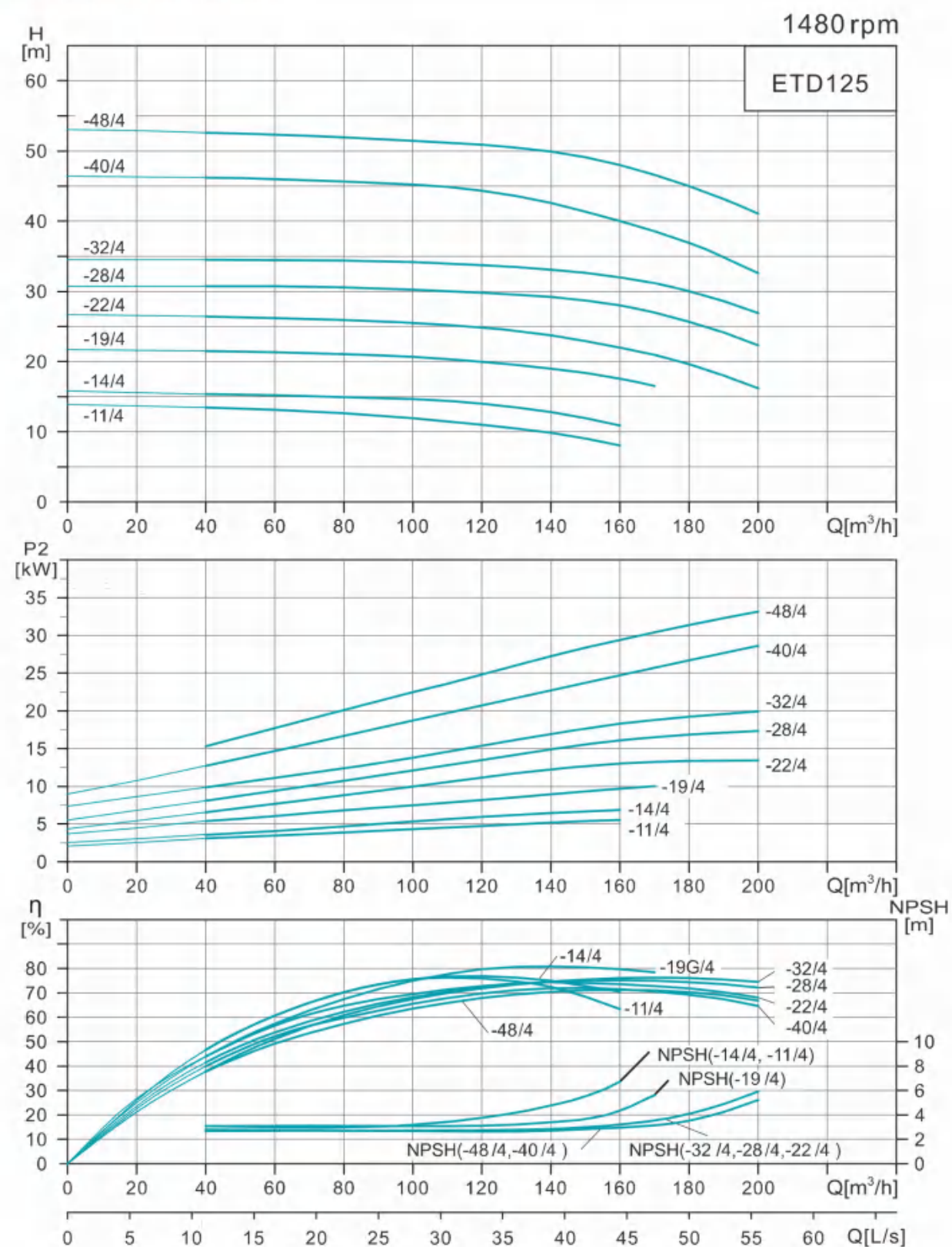


Dimension And Weight

Model	Dimension(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
ETD100-9/2	140	171	137	134	101	160	105	178	570	450	225	56
ETD100-15/2	160	214	169	134	101	160	105	190	637	450	225	73
ETD100-17/2	200	257	190	146	118	144	120	199	702	450	225	96
ETD100-22/2	200	257	190	146	118	144	120	199	702	450	225	104
ETD100-27/2	350	314	261	147	123	144	140	260	900	550	275	187
ETD100-33/2	350	314	261	147	123	144	140	260	900	550	275	202
ETD100-40/2	350	314	261	181	152	230	140	270	954	550	275	220
ETD100-48/2	350	355	273	181	152	230	140	270	987	550	275	273
ETD100-52/2	400	397	314	181	152	230	140	270	1062	550	275	336

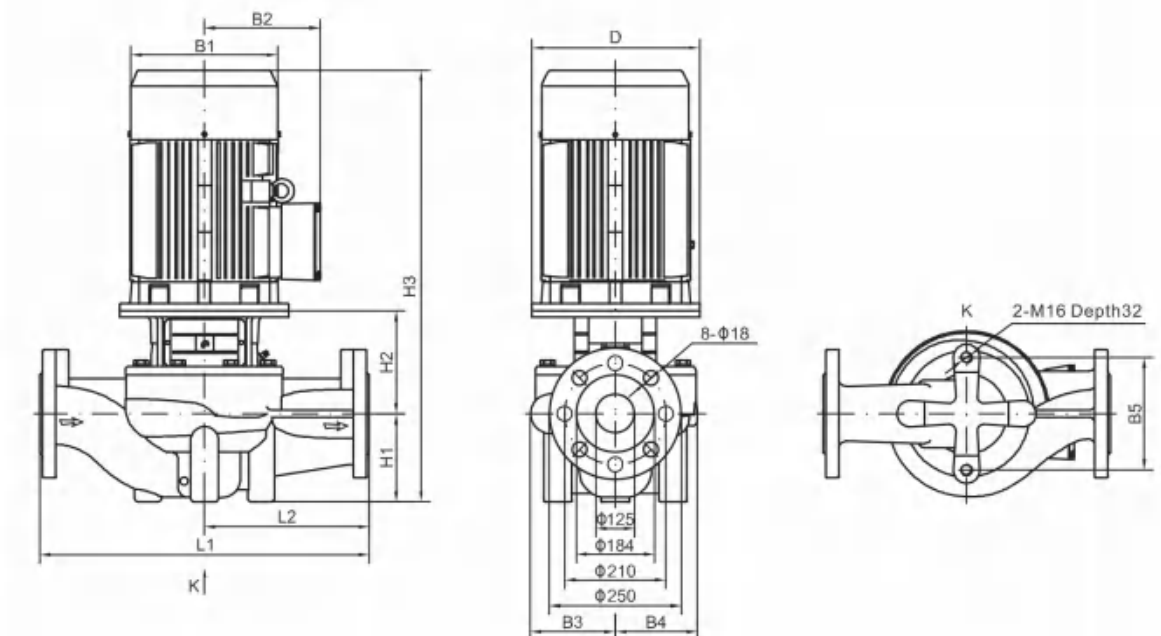
Note: the dimensions of flameproof motor have changed, please consult our company for details!!

Performance Curve



ETD125 Performance Table

Model	Power (kW)	Q (m³/h)	40	60	80	100	120	140	160	170	180	200
ETD125-11/4	5.5	H (m)	13.4	13.1	12.6	11.9	11	9.8	8.1			
ETD125-14/4	7.5		15.4	15.2	15	14.7	14	12.8	10.9			
ETD125-19/4	11		21.5	21.3	21.1	20.7	19.9	19	17.6	16.5		
ETD125-22/4	15		26.7	26.5	26.2	25.7	24.9	23.7	22	20.9	19.8	16.7
ETD125-28/4	18.5		30.9	30.8	30.7	30.5	30.1	29.3	28	26.9	25.8	22.2
ETD125-32/4	22		34.6	34.6	34.5	34.4	34	33.3	32	31.1	30.2	27.3
ETD125-40/4	30		46.2	46	45.7	45.2	44.3	42.5	40	38.5	36.9	32.5
ETD125-48/4	37		52.6	52.3	51.9	51.5	50.9	49.9	48	46.6	45	41.1

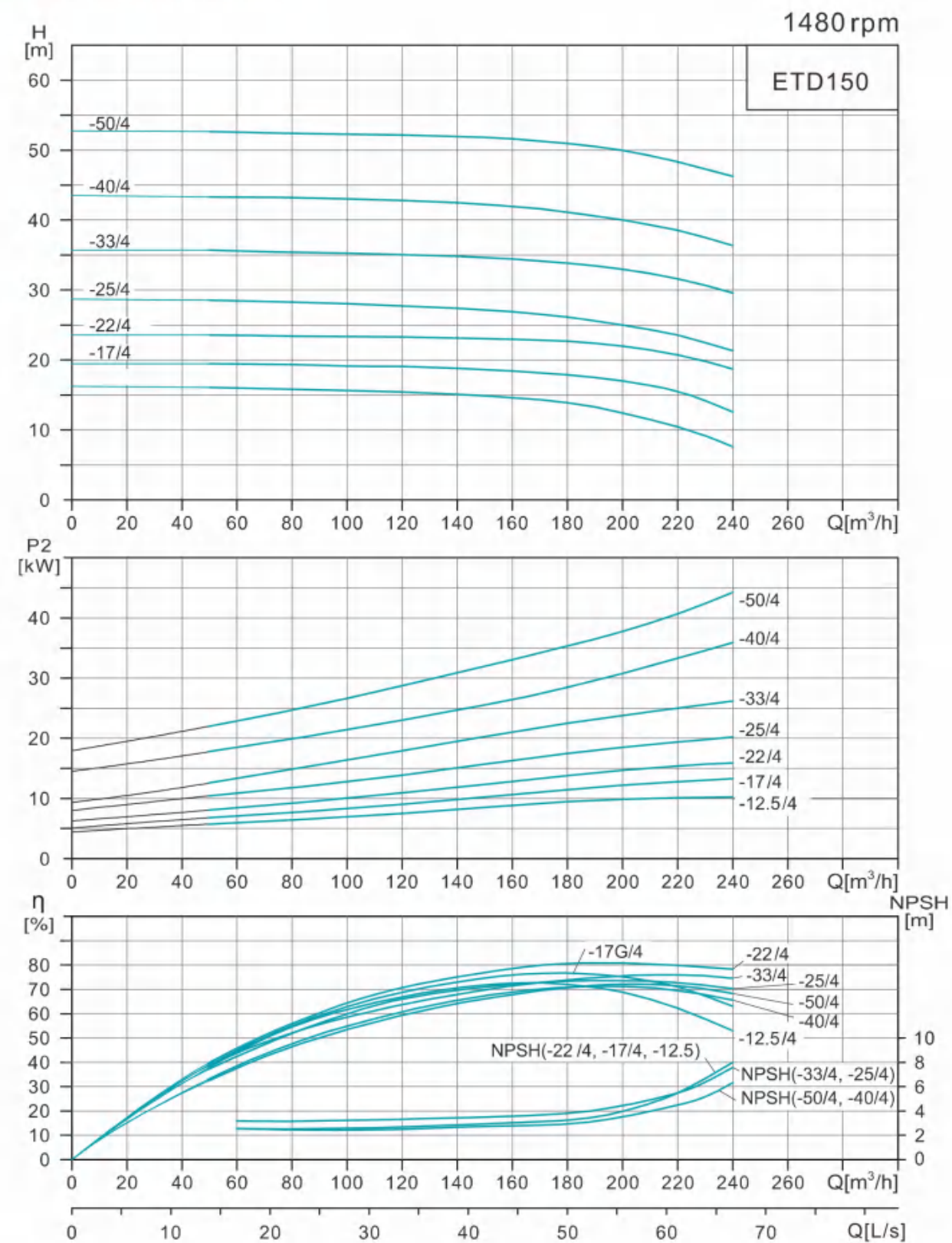


Dimension And Weight

Model	Dimension(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
ETD125-11/4	200	257	190	198	162	230	160	229	772	620	310	140
ETD125-14/4	200	257	190	198	162	230	160	229	772	620	310	150
ETD125-19/4	350	314	261	213	178	230	160	301	961	660	330	255
ETD125-22/4	350	314	261	236	208	230	215	292	1051	800	400	310
ETD125-28/4	350	355	273	236	208	230	215	292	1084	800	400	340
ETD125-32/4	350	355	273	236	208	230	215	292	1122	800	400	361
ETD125-40/4	400	397	314	261	233	230	160	298	1110	800	400	455
ETD125-48/4	400	445	334	261	233	230	160	313	1167	800	400	492

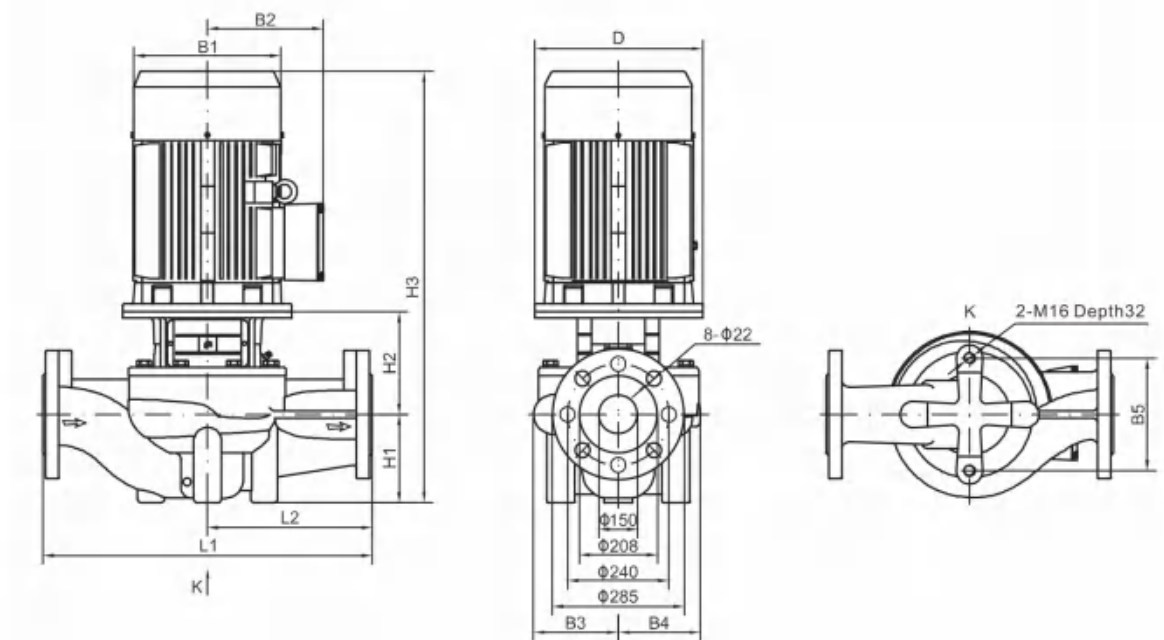
Note: the dimensions of flameproof motor have changed, please consult our company for details!!

Performance Curve



ETD150 Performance Table

Model	Power (kW)	Q (m³/h)	50	80	100	120	140	160	180	200	220	240
ETD150-12.5/4	11	H (m)	16.1	15.8	15.6	15.4	15.1	14.6	13.9	12.5	10.4	7.6
ETD150-17/4	15		19.5	19.4	19.2	19.1	18.8	18.4	17.9	17	15.5	12.6
ETD150-22/4	18.5		23.6	23.4	23.4	23.2	23.1	23	22.7	22	20.7	18.7
ETD150-25/4	22		28.1	28	27.9	27.7	27.3	26.8	26.1	25	23.5	21.3
ETD150-33/4	30		35.5	35.4	35.3	35.1	34.8	34.4	33.9	33	31.5	29.6
ETD150-40/4	37		43.1	43	42.9	42.7	42.4	41.9	41.1	40	38.4	36.2
ETD150-50/4	45		52.4	52.2	52.1	51.9	51.7	51.4	50.9	50	48.7	46.7

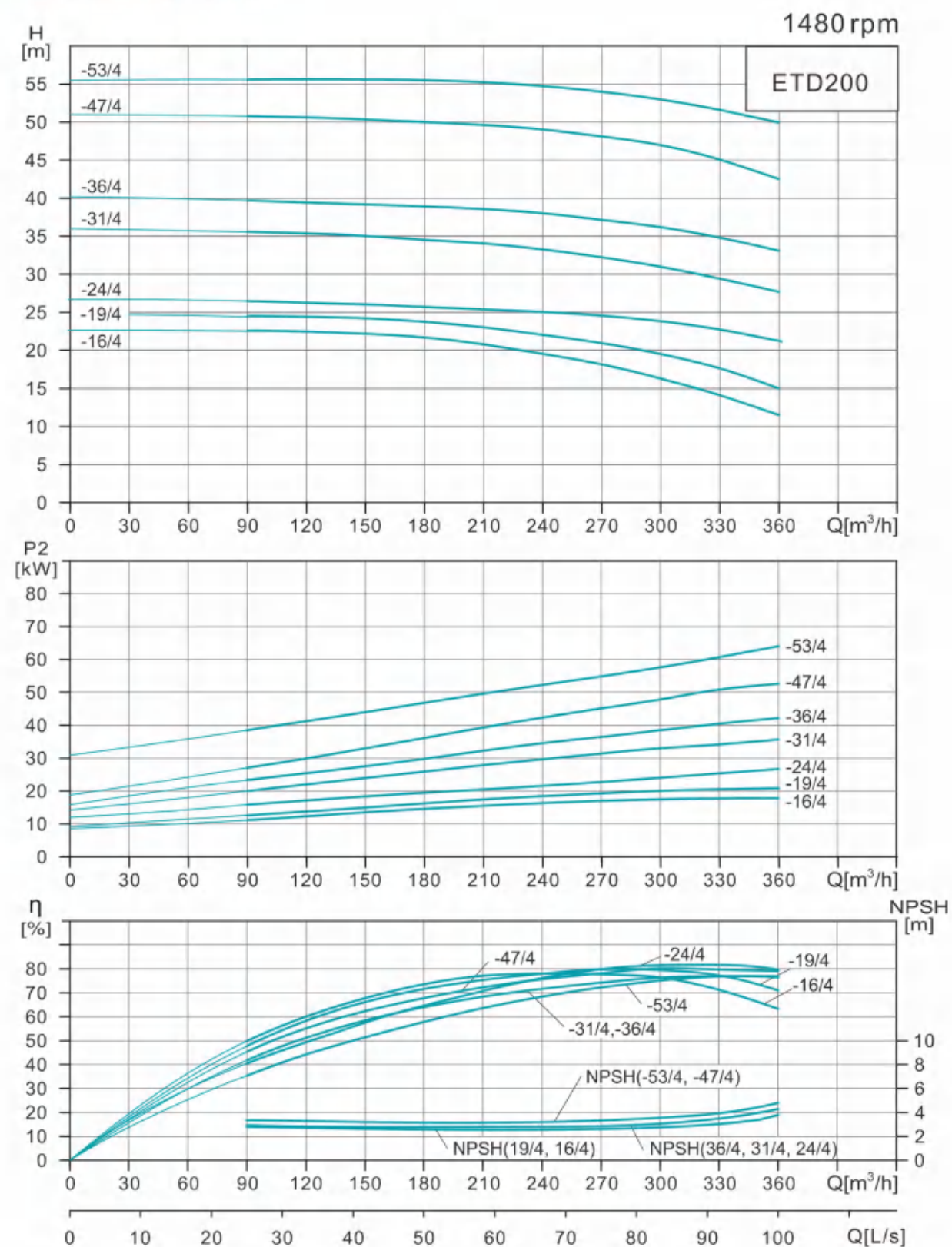


Dimension And Weight

Model	Dimension(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
ETD150-12.5/4	350	314	261	217	180	230	175	297	972	660	330	260
ETD150-17/4	350	314	261	217	180	230	175	297	1016	660	330	281
ETD150-22/4	350	355	273	217	180	230	175	297	1049	660	330	312
ETD150-25/4	350	355	273	238	208	230	215	269	1061	800	400	365
ETD150-33/4	400	397	314	238	208	230	215	269	1136	800	400	445
ETD150-40/4	450	445	334	267	248	230	230	288	1212	900	450	518
ETD150-50/4	450	445	334	267	248	230	230	288	1212	900	450	570

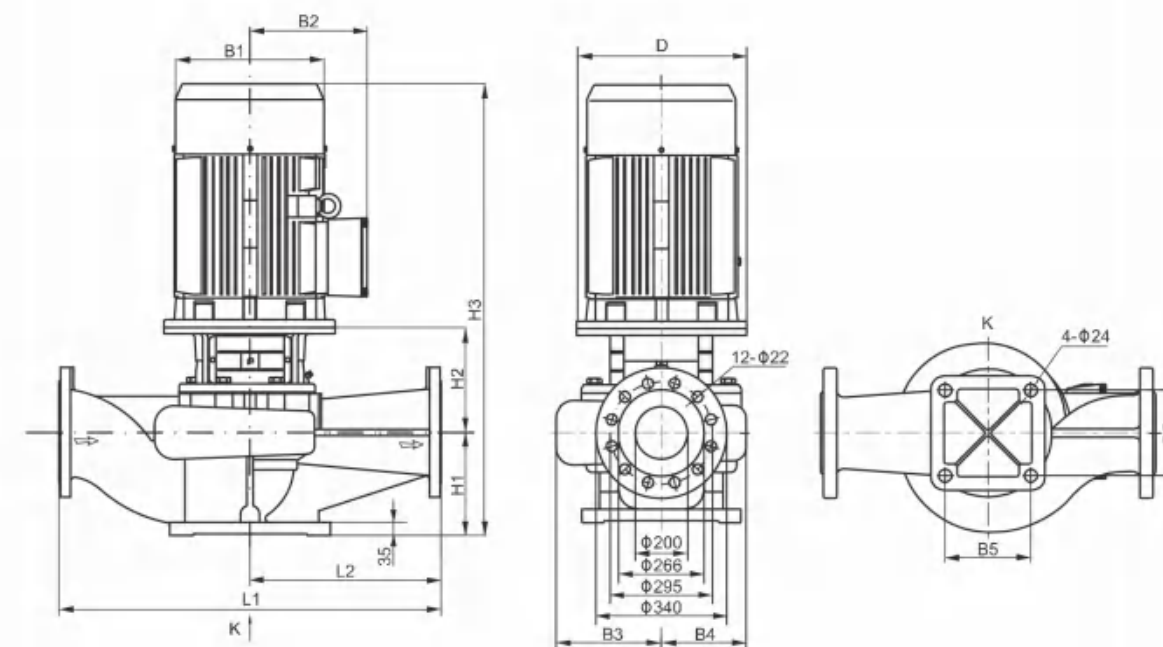
Note: the dimensions of flameproof motor have changed, please consult our company for details!!

Performance Curve



ETD200 Performance Table

Model	Power (kW)	Q (m³/h)	90	120	150	180	210	240	270	300	330	360
ETD200-16/4	18.5	H (m)	22.6	22.4	22.2	21.7	20.7	19.4	18.1	16	14	11.5
ETD200-19/4	22		24.4	24.3	24.2	23.7	23	22	20.9	19	17.6	15
ETD200-24/4	30		26.1	26	25.8	25.7	25.4	25.1	24.6	24	23.1	21.5
ETD200-31/4	37		35.4	35.3	35	34.5	33.9	33.2	32.2	31	29.3	27.6
ETD200-36/4	45		39.6	39.4	39.1	38.8	38.5	37.9	37	36	34.7	33
ETD200-47/4	55		50.6	50.5	50.2	49.8	49.5	48.9	48	47	44.9	42.4
ETD200-53/4	75		55.7	55.7	55.7	55.5	55.3	54.8	54	53	51.6	50

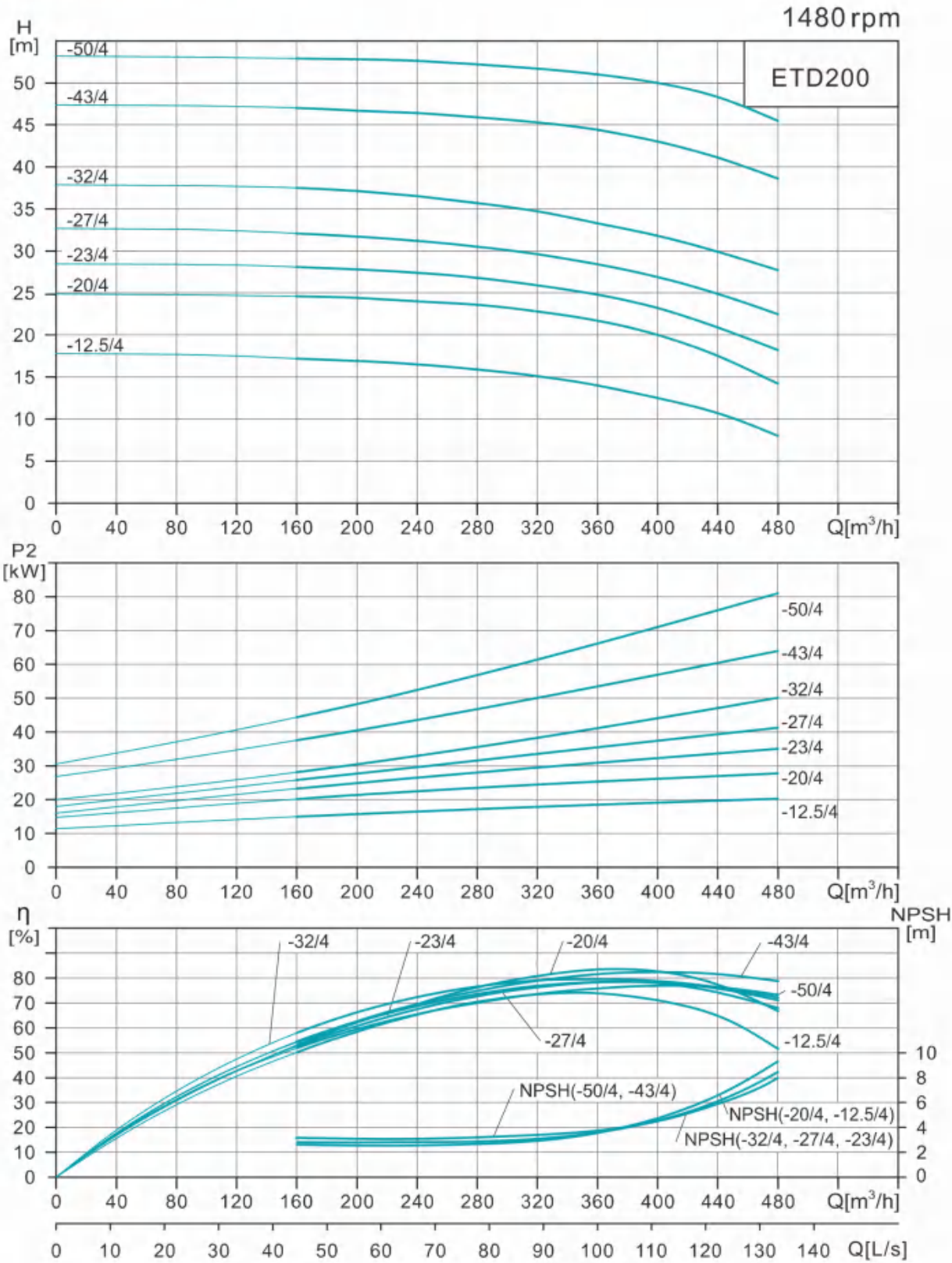


Dimension And Weight

Model	Dimension(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
ETD200-16/4	350	355	273	278	219	360	270	415	1265	1000	500	417
ETD200-19/4	350	355	273	278	219	360	270	415	1305	1000	500	434
ETD200-24/4	400	397	314	303	252	360	270	415	1335	1100	550	537
ETD200-31/4	450	445	334	303	252	360	270	445	1395	1100	550	602
ETD200-36/4	450	445	334	303	252	360	270	445	1420	1100	550	648
ETD200-47/4	550	484	367	315	269	360	270	457	1517	1100	550	744
ETD200-53/4	550	547	407	315	269	360	270	457	1587	1100	550	877

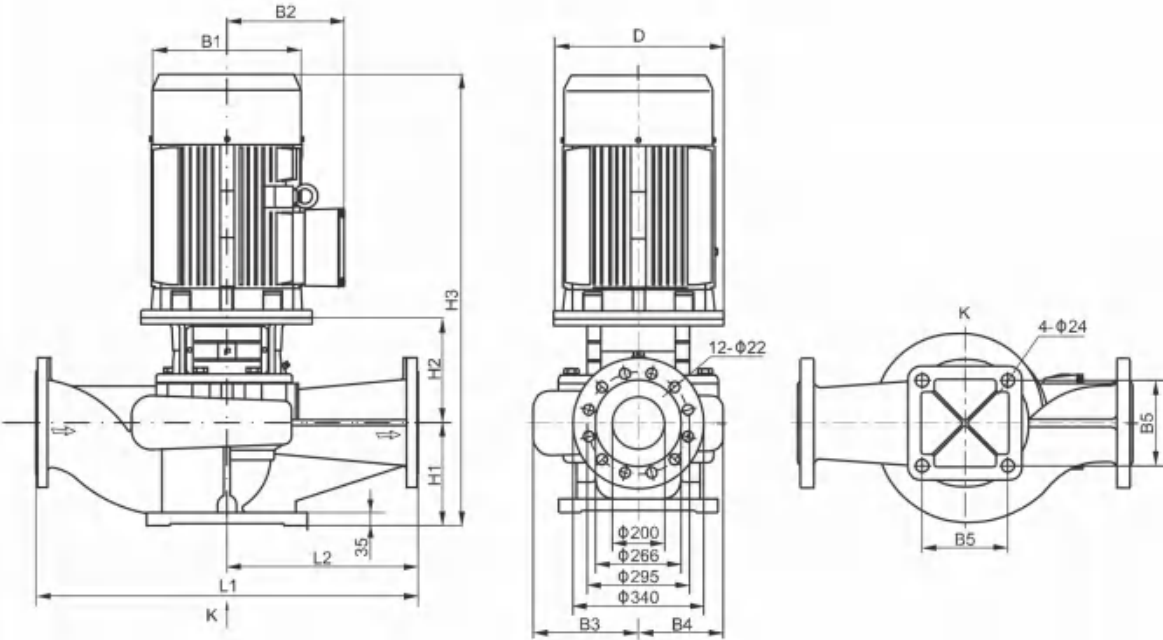
Note: the dimensions of flameproof motor have changed, please consult our company for details!!

Performance Curve



ETD200 Performance Table

Model	Power (kW)	Q (m³/h)	160	200	240	280	320	360	400	440	480
ETD200-12.5/4	22	H (m)	17.2	16.9	16.5	15.9	15.1	14	12.5	10.7	8
ETD200-20/4	30		24.6	24.4	24	23.6	22.8	21.7	20	17.5	14.2
ETD200-23/4	37		28.1	27.8	27.4	26.8	25.9	24.8	23	20.9	18.2
ETD200-27/4	45		32.1	31.7	31.2	30.5	29.6	28.4	27	24.9	22.5
ETD200-32/4	55		37.5	37.1	36.5	35.7	34.7	33.3	32	29.9	27.7
ETD200-43/4	75		47	46.7	46.4	45.9	45.3	44.4	43	41.1	38.6
ETD200-50/4	90		52.9	52.8	52.6	52.2	51.7	51	50	48.3	45.5

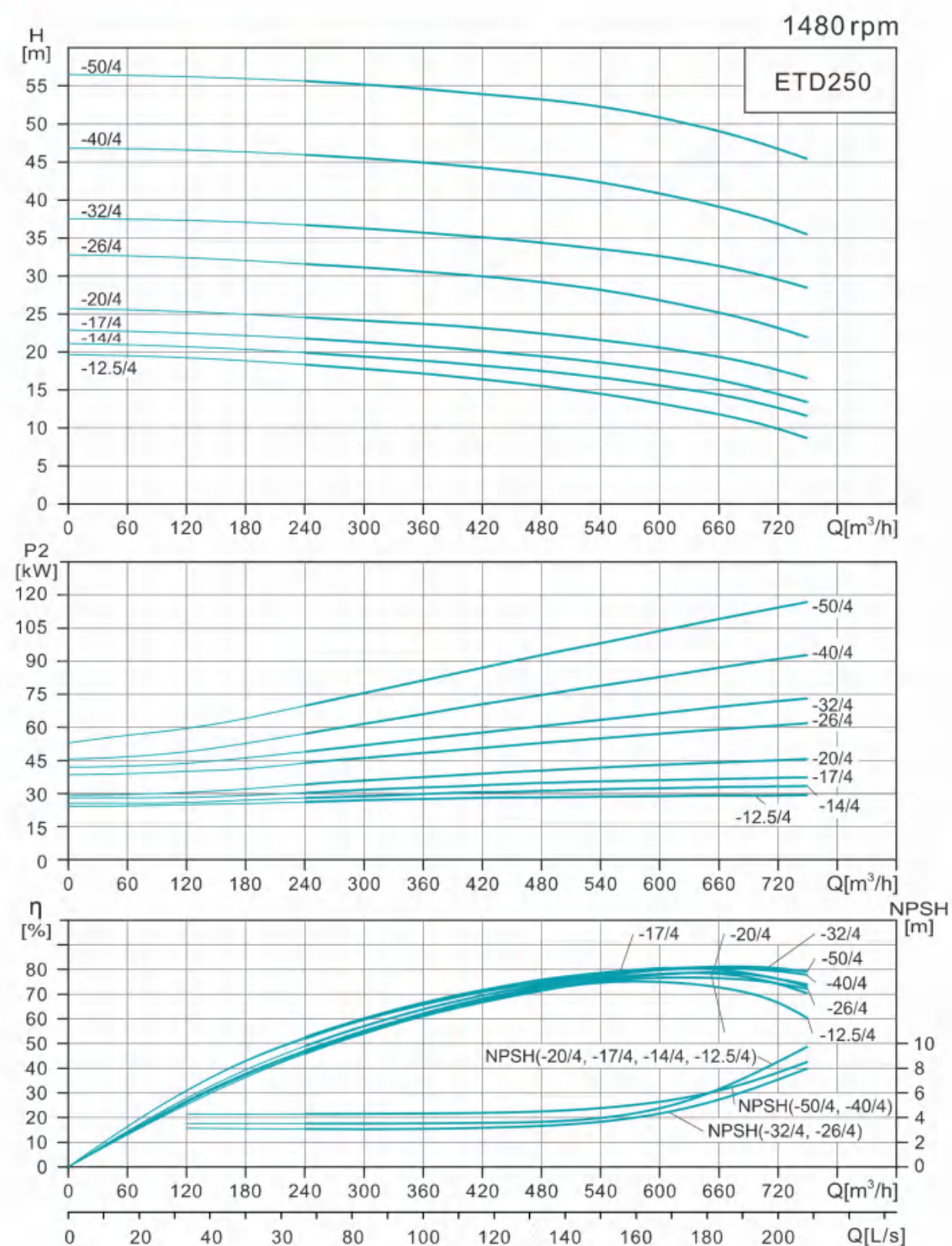


Dimension And Weight

Model	Dimension(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
ETD200-12.5/4	350	355	273	278	219	360	270	415	1300	1000	500	432
ETD200-20/4	400	397	314	278	219	360	270	415	1334	1000	500	492
ETD200-23/4	450	445	334	303	252	360	270	445	1389	1100	550	602
ETD200-27/4	450	445	334	303	252	360	270	445	1412	1100	550	638
ETD200-32/4	550	484	367	303	252	360	270	445	1488	1100	550	710
ETD200-43/4	550	547	407	315	269	360	270	457	1556	1100	550	883
ETD200-50/4	550	547	407	315	269	360	270	457	1607	1100	550	975

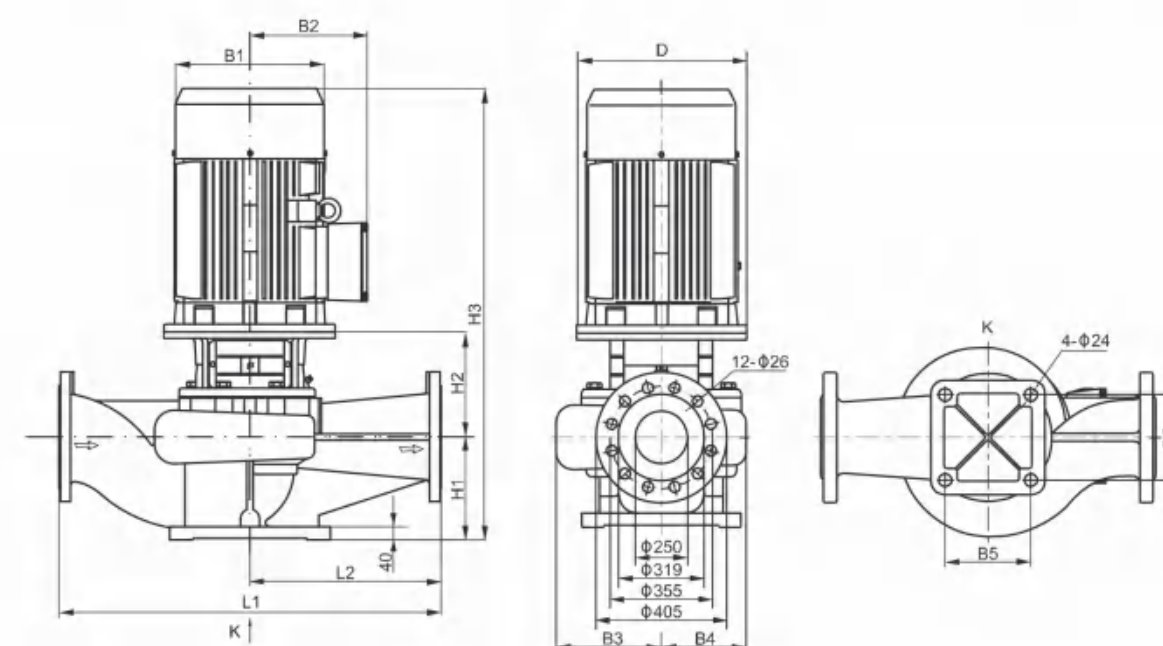
Note: the dimensions of flameproof motor have changed, please consult our company for details!!

Performance Curve



ETD250 Performance Table

Model	Power (kW)	Q (m³/h)	240	300	360	420	480	540	600	630	660	720	750
ETD250-12.5/4	30	H (m)	18.4	17.9	17.2	16.4	15.5	14.5	13.2	12.5	11.8	9.9	8.7
ETD250-14/4	37		20	19.5	18.9	18.2	17.5	16.6	15.6	14	13.4	12.6	11.6
ETD250-17/4	45		21.8	21.3	20.8	20.1	19.4	18.6	17.6	17	16.3	14.4	13.4
ETD250-20/4	55		24.5	24.1	23.7	23.1	22.4	21.5	20.5	20	19.3	17.6	16.5
ETD250-26/4	75		31.7	31.1	30.6	29.9	29.1	28.2	26.8	26	25.2	23.1	21.9
ETD250-32/4	90		36.7	36.3	35.7	35.1	34.3	33.5	32.6	32	31.3	29.5	28.4
ETD250-40/4	110		46	45.5	44.9	44.2	43.4	42.3	40.8	40	39.1	36.8	35.5
ETD250-50/4	132		55.6	55.2	54.6	53.9	53.2	52.3	50.9	50	49	46.7	45.4

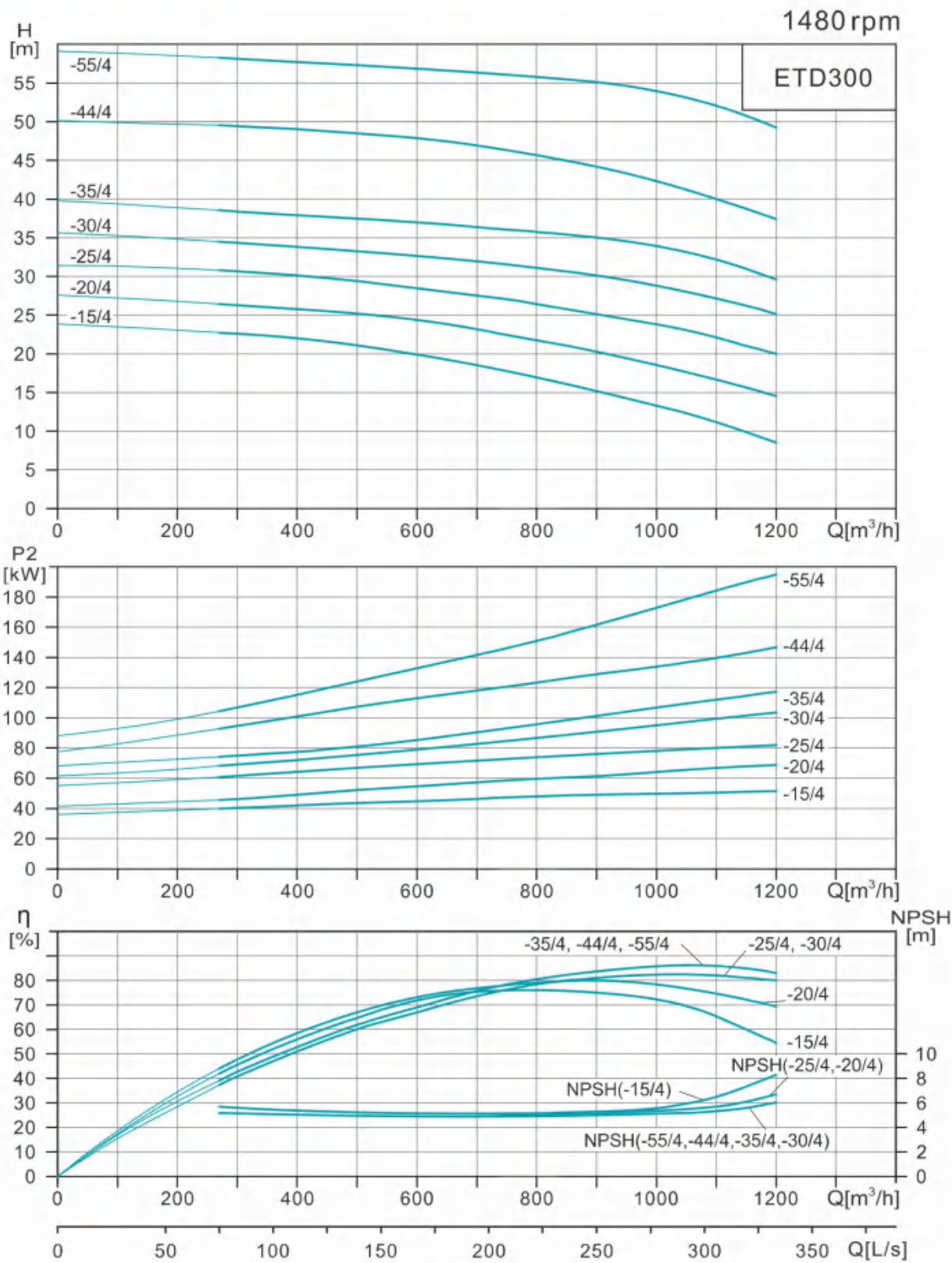


Dimension And Weight

Model	Dimension(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
ETD250-12.5/4	400	397	314	316	243	390	300	465	1414	1100	550	552
ETD250-14/4	450	445	334	316	243	390	300	495	1469	1100	550	613
ETD250-17/4	450	445	334	316	243	390	300	495	1492	1100	550	649
ETD250-20/4	550	484	367	316	243	390	300	495	1568	1100	550	722
ETD250-26/4	550	547	407	329	264	440	300	507	1636	1100	550	909
ETD250-32/4	550	547	407	329	264	440	300	507	1687	1100	550	999
ETD250-40/4	660	645	535	347	292	440	305	525	1840	1200	600	1389
ETD250-50/4	660	645	535	347	292	440	305	525	1990	1200	600	1473

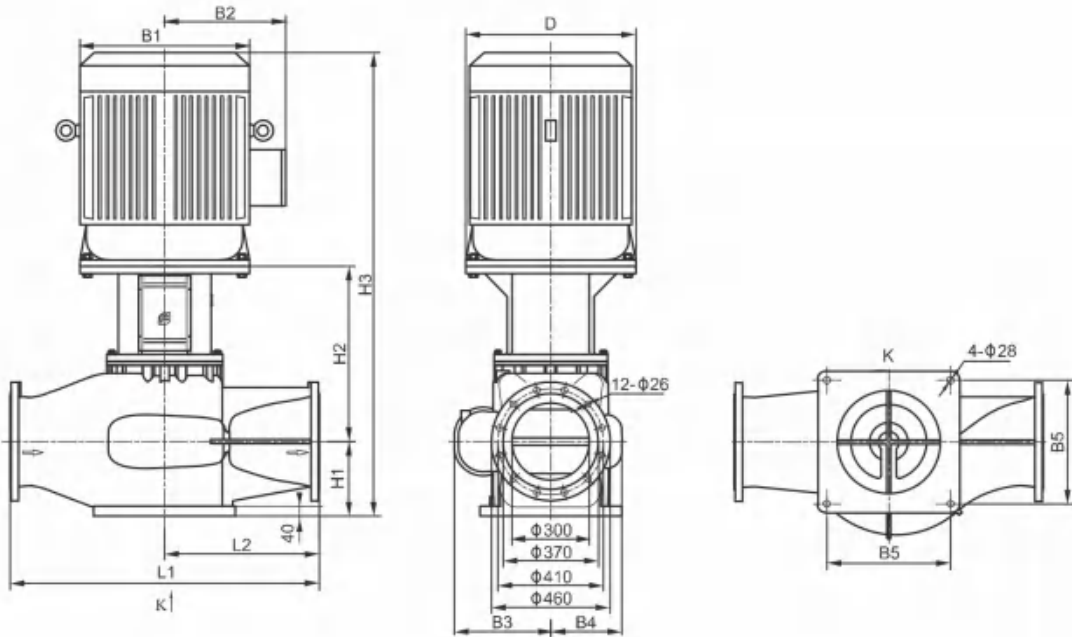
Note: the size of flameproof motor has changed, please consult our company for details!

Performance Curve



ETD300 Performance Table

Model	Power (kW)	Q (m³/h)	270	360	450	630	750	900	1080	1200
ETD300-15/4	55	H (m)	22.7	22.3	21.6	19.5	17.8	15	11.6	8.5
ETD300-20/4	75		26.4	26	25.5	24.1	22.4	20	17.1	14.5
ETD300-25/4	90		30.8	30.4	29.8	28.2	27.1	25	22.5	20
ETD300-30/4	110		34.5	34	33.5	32.4	31.6	30	27.5	25
ETD300-35/4	132		38.6	38.1	37.8	36.9	36	35	32.6	29.6
ETD300-44/4	160		49.5	49.2	48.8	47.6	46.3	44	40.5	37.5
ETD300-55/4	200		58.2	57.9	57.6	56.7	56.1	55	52.5	49.2



Dimension And Weight

Model	Dimension(mm)											Weight (kg)
	D	B1	B2	B3	B4	B5	H1	H2	H3	L1	L2	
ETD300-15/4	550	484	367	345	250	440	290	649	1720	1200	600	907
ETD300-20/4	550	547	407	345	250	440	290	649	1770	1200	600	1075
ETD300-25/4	550	547	407	380	280	480	290	659	1850	1200	600	1230
ETD300-30/4	660	645	535	380	280	480	290	699	2000	1200	600	1570
ETD300-35/4	660	645	535	380	280	480	290	699	2150	1200	600	1650
ETD300-44/4	660	645	535	380	295	480	290	702	2150	1200	600	1790
ETD300-55/4	660	645	535	380	295	480	290	702	2150	1200	600	1905

Note: the size of flameproof motor has changed, please consult our company for details!