

ZM

**50Hz
Stainless Steel
Horizontal Single-stage
Centrifugal Pump**



Stock code:300145



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subject to amendments



Pumping Water Pumping Honor



Company profile

Nanfeng Pump Industry Co., Ltd. (CNP) was founded in 1991 in Hangzhou, and listed on the Shenzhen Stock Exchange in 2010.

CNP has various industry-leading energy-saving products, including stainless steel stamped pumps, end-suction pumps, inline pumps, and split-case pumps, widely applied in environmental water treatment, municipal water conservancy, HVAC, and other industries.

Vertical Multistage Centrifugal Pump series has been recognized as “National Manufacturing Single Champion Product” and ranks “No. 1 in Asia and Top2 globally” in sales.

CNP operates 21 subsidiaries (16 domestic, 5 overseas) with over 5,000 employees, 3 R&D centers, and 8 manufacturing bases. With 800+ technicians, 2,000+ salesperson, 200+ domestic sales offices, and annual output of 1.2 million units, CNP has established a full-process service system while expanding into global markets.

CNP exports to over 90 overseas countries and regions, supported by a robust network of overseas agents and distributors, achieving an annual export revenue of 100 million USD.

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Product Summary

ZM series is a new generation, high efficient non-self-priming horizontal single-stage centrifugal pump developed independently with reference to European standard. The product adopts new hydraulic and structural design. The product adopts a brand-new stainless steel stamping and expansion process, which can replace the previous generation ZS-type stainless steel horizontal single-stage centrifugal pump, traditional IS pumps, and general corrosion-resistant pumps.

It's energy saving, easy to use and maintain with low noise, compact structure, beautiful appearance and high reliability.

Performance Parameters

- Max. Flow: 210 m³/h
- Max. Rated Head: 104 m
- Max. Working pressure: 10 bar
- Max. Power: 75kW
- Liquid temperature: -20°C~100°C
- Diameter: Suction DN50~DN100
Discharge DN32~DN80

Operating Conditions

- Liquids that are thin, clean, non-flammable, non-explosive, and do not contain solid particles and fibers; physically and chemically water-like liquid.
- Ambient Temperature: Up to +40°C
 - Altitude: Up to 1000m

Curve Conditions

The following instructions apply to the curves shown later:

- 1.The curve tolerances comply with GB/T 3216-2016 (ISO9906:2012), Grade 3B.
- 2.All curves are based on the measured values of the motor at a constant speed of 2900rpm or 2950rpm, 3×380V.
- 3.The test uses 20°C air-free water with a kinematic viscosity of 1mm/s, tested medium temperature of 20°C.
- 4.The pump should be used with reference to the performance range of the bolded curve to prevent overheating/overload due to insufficient/excessive flow.

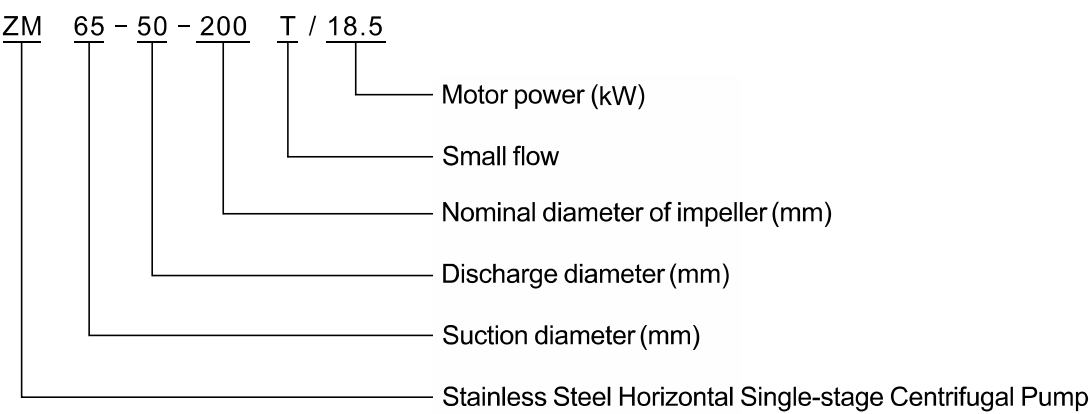
Typical Applications

- ZM pump is a multipurpose product that can transport various media ranging from tap water to industrial liquids, adapting to different temperatures, flow rates, and pressure ranges.
- Clean system
 - Food and Beverage
 - Suction of mildly corrosive media
 - HVAC system
 - Heating system
 - Industrial boosting
 - Water treatment

Features

- The pump is single stage, single suction structure with horizontal axial suction and radical discharge.
- Pump installation dimension comply to EN733 standard.
- Adopt Pull-back structure, avoid dismantling pump body and pipeline when repairing.
- Adopt advanced CFD optimized hydraulic design, hydraulic efficiency is high and minimum efficiency index MEI≥0.7.
- Smooth operation and low noise.
- Flow range is wide.
- Inlet and outlet flange conform to standard of PN10 in GB/T91241.1 (ISO7005-1)
- Adopt floating ring structure which improves pump volume efficiency greatly

Model Name Breakdown

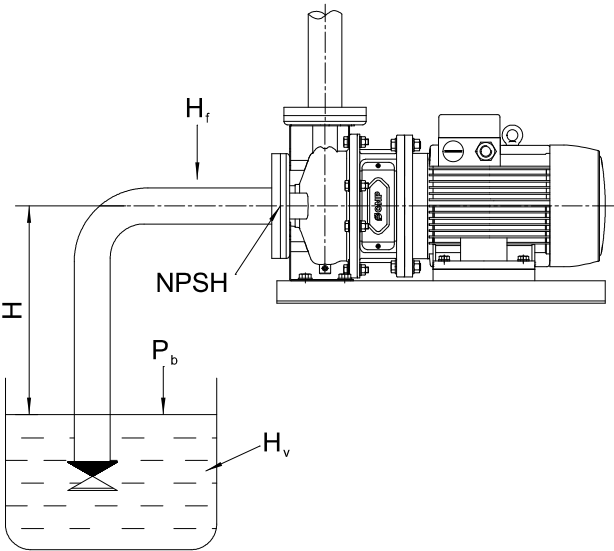


Minimum Inlet Pressure

If the pressure in the pump is lower than the vaporization pressure of the transported liquid, cavitation may occur. To avoid cavitation, ensure that there is a minimum pressure on the pump inlet side. The maximum suction lift H[m] can be calculated according to the following formula:

- P_b =Atmospheric pressure [bar]
(Atmospheric pressure can be set to 1bar)
In a closed system, P_b is the system pressure [bar]
 $NPSH$ =Net Positive Suction Head [m]
(Can be read from the maximum possible flow rate of the pump on the NPSH curve)
 H_f =Inlet piping loss [m]
 H_v =Vaporization pressure [m]
 H_s =Safety margin=minimum 0.5m head
If the calculated H is a positive value, the pump can operate under the maximum suction lift of H.

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

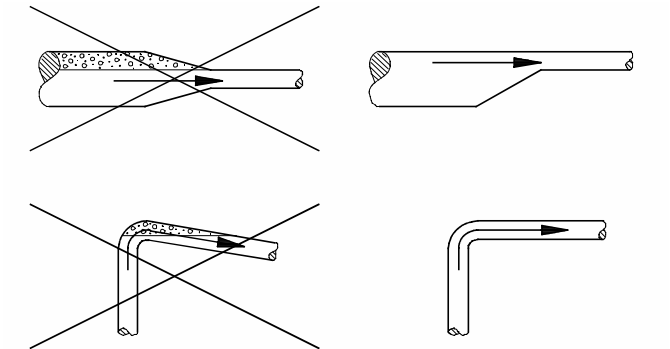


Motor Parameters

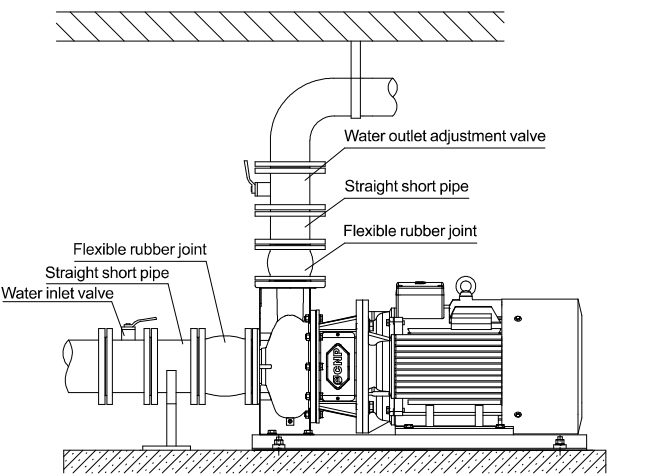
The motor is TEFC, IEC standard motor.
Protection Class: IP55;
Insulation Class: F;
Rated Voltage: 50Hz 3×380V

Pipeline Installation Conditions

Pump casing must not subjected to pipe pressure when installing the pipe.
The suction and drain pipes must be sized appropriately and the inlet pressure of the pump needs to be considered.
Install the pipe to avoid air blockage, especially on the inlet side of the pump. See picture below.



Install an isolation valve on each end of the pump so that the system does not have to be drained when cleaning or repairing the pump.
Ensure that the pipe is sufficiently supported (inlet and outlet side) as close as possible to the pump. The butt flange should be attached to pump flange without being subjected to tensile stresses, as the presence of tensile stress can damage the pump.

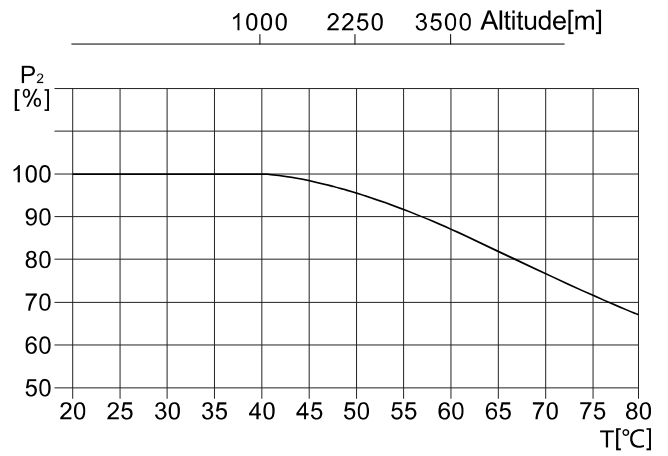


Pump Installation Conditions

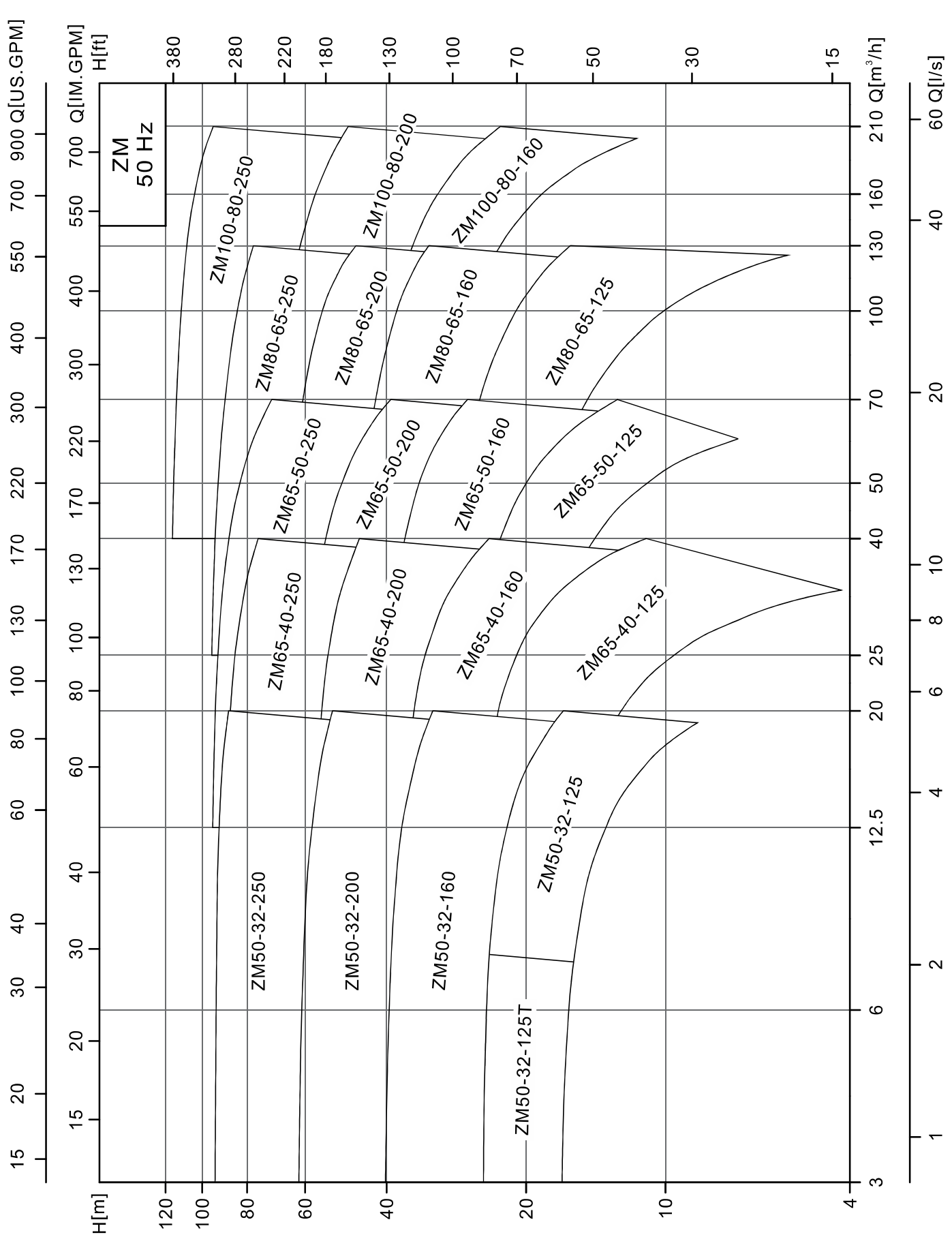
- The pump should be installed in a well-ventilated and frost-free location.
- The installation of the pump must ensure that it is not affected by the tension of the system piping during operation.
- If the pump is installed outdoors, it must be equipped with appropriate protective covers to prevent water ingress or condensation in the electrical components.
- To facilitate inspection and maintenance, sufficient space should be left around the unit. A minimum of 300mm clearance should be left when the motor is <5.5kW, and a minimum of 1000mm when the motor is ≥5.5kW.
- The electrical wiring must ensure that the pump is not damaged by phase loss, voltage instability, leakage, or overload.
- The pump should be horizontally installed on the base, with the suction inlet on the horizontal axis and the discharge outlet on the vertical axis.

Max.Ambient Temperature and Altitude

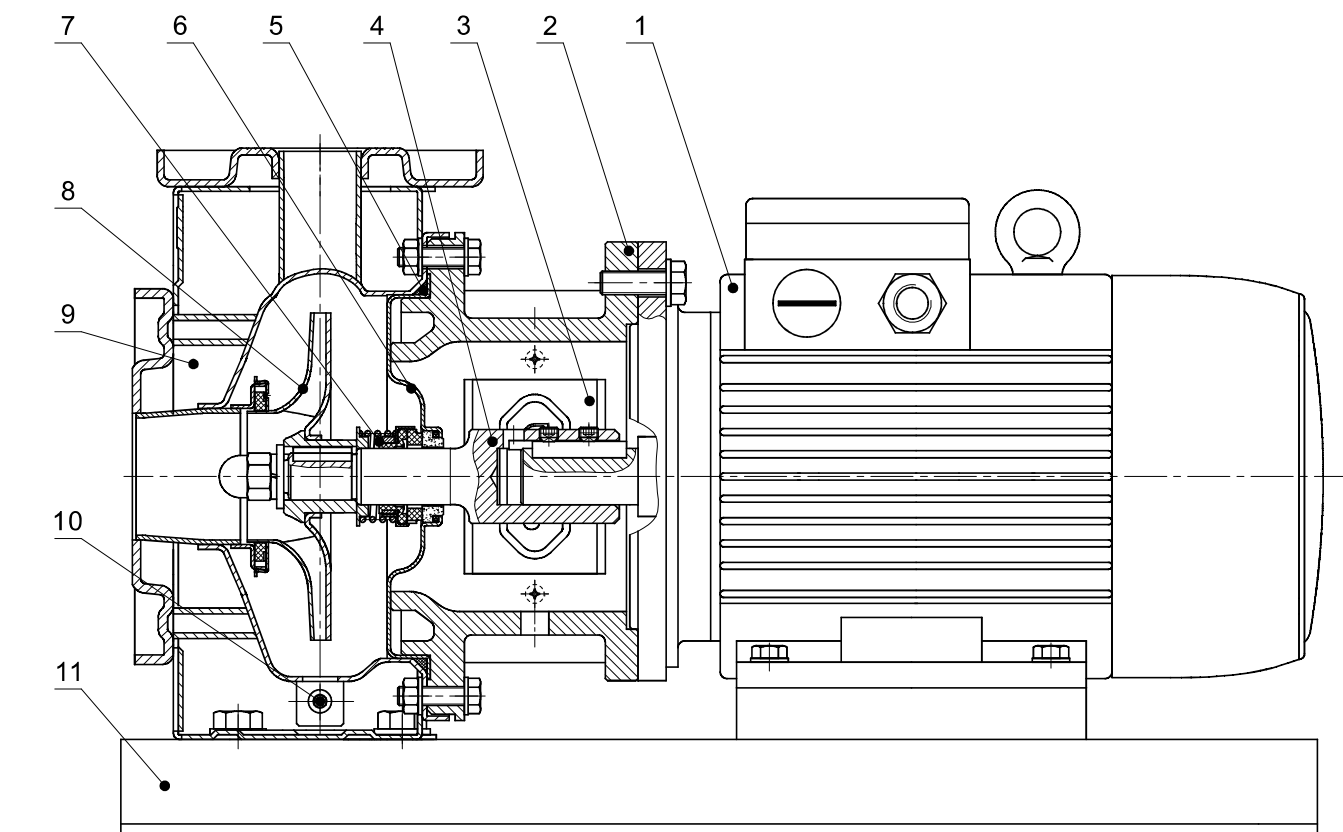
When the pump is operating at an ambient temperature greater than 40°C or at an altitude greater than 1000 meters, the motor should not be operated at full load, otherwise it will be in danger of high overheating. High ambient temperature, poor air cooling caused by too low air density, etc. can cause overheating. The motor power needs to be increased when the pump is operated under the above conditions.



Spectrum



Sectional View



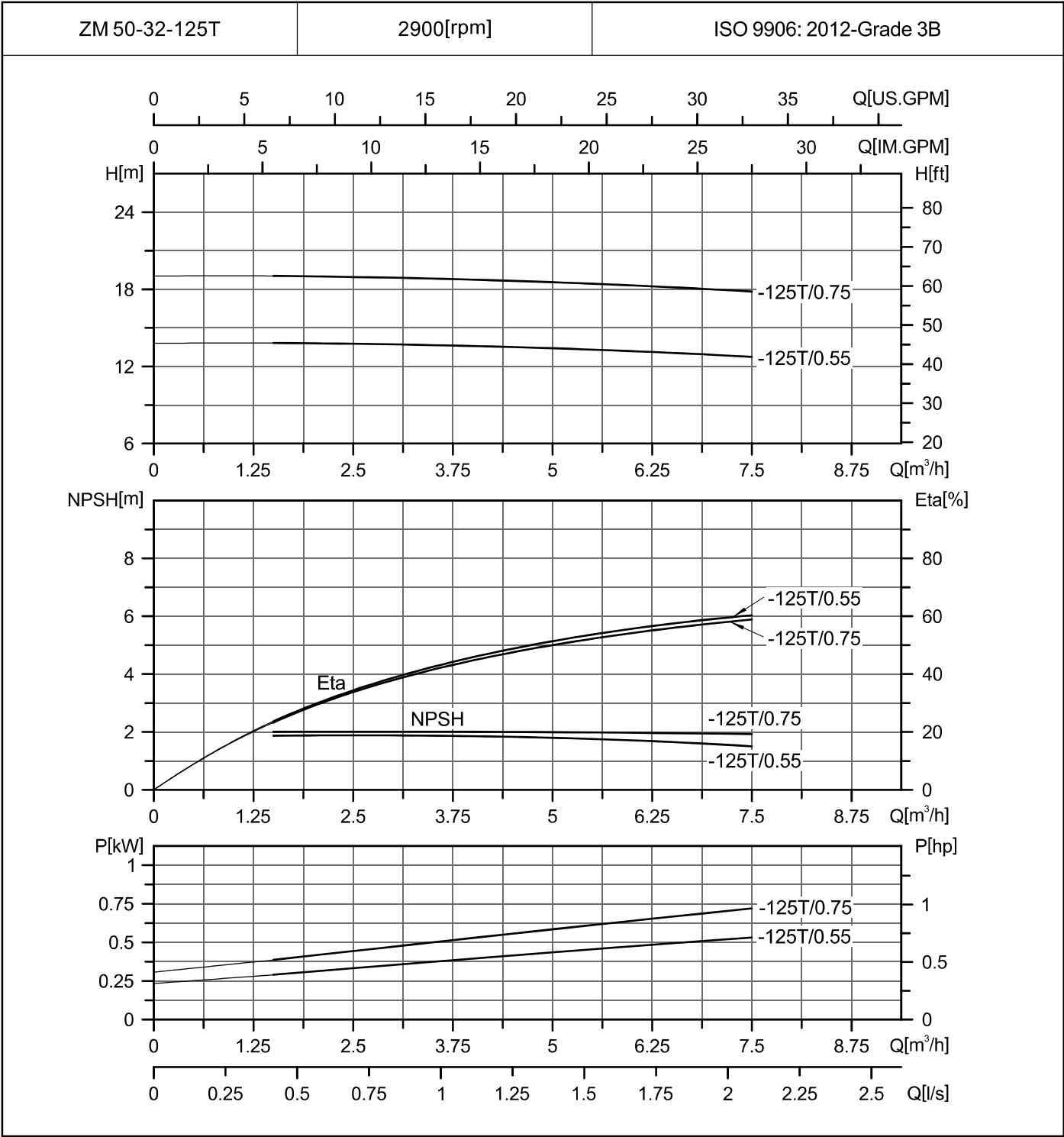
Material List

No.	Parts	Material	Code/AISI/ASTM
1	Motor		
2	Pump head	HT200	ASTM25B
3	Guard plate	Stainless steel 06Cr19Ni10	AISI304
4	Pump shaft	Stainless steel 06Cr19Ni10	AISI304
5	O-ring	NBR	
6	Lining	Stainless steel 06Cr19Ni10	AISI304
7	Mechanical seal	Carbon/Silicon Carbide	
8	Impeller	Stainless steel 06Cr19Ni10	AISI304
9	Pump body	Stainless steel 06Cr19Ni10	AISI304
10	Drain plug	Stainless steel 06Cr19Ni10	AISI304
11	Base	Carbon steel Q235	ASTMA570

Performance Parameters

No.	Pump model	Q[m³/h]	H[m]	η[%]	NPSH[m]	Motor power[kW]	Flow range[m³/h]	n[r/min]
1	ZM50-32-125T/0.55	6.3	16	56.5	2	0.55	1.5~7.5	2900
2	ZM50-32-125T/0.75	6.3	21	55.5	2.3	0.75	1.5~7.5	
3	ZM50-32-125/0.75	12.5	13.5	69	2	0.75	3~20	
4	ZM50-32-125/1.1	12.5	18.5	68	2.5	1.1	3~20	
5	ZM50-32-125/1.5	12.5	22	65	3	1.5	3~20	
6	ZM50-32-160/2.2	12.5	30	62.5	2.3	2.2	3~20	
7	ZM50-32-160/3	12.5	37	60	2.3	3	3~20	
8	ZM50-32-200/4	12.5	49	55	2.2	4	3~20	
9	ZM50-32-200/5.5	12.5	58	50	2.2	5.5	3~20	2950
10	ZM50-32-250/7.5	12.5	77	46	2.5	7.5	3~20	
11	ZM50-32-250/9.2	12.5	85	44.5	2.5	9.2	3~20	
12	ZM50-32-250/11	12.5	92	43	2.5	11	3~20	2900
13	ZM65-40-125/1.1	25	9	63	2.8	1.1	6~32.5	
14	ZM65-40-125/1.5	25	14	68.5	2.8	1.5	6~35	
15	ZM65-40-125/2.2	25	21	76	2.8	2.2	6~40	
16	ZM65-40-160/3	25	27	72	2.6	3	6~40	
17	ZM65-40-160/4	25	33	71	2.6	4	6~40	
18	ZM65-40-200/5.5	25	41	66	2.3	5.5	6~40	
19	ZM65-40-200/7.5	25	53.5	66	2.3	7.5	6~40	2950
20	ZM65-40-250/9.2	25	61	58.5	2.5	9.2	6~40	
21	ZM65-40-250/11	25	70	57	2.7	11	6~40	
22	ZM65-40-250/15	25	85	57	2.7	15	6~40	
23	ZM65-50-125/2.2	50	11	70	3.6	2.2	12.5~65	2900
24	ZM65-50-125/3	50	14.5	72	3.4	3	12.5~70	
25	ZM65-50-125/4	50	20	76.5	3.3	4	12.5~70	
26	ZM65-50-160/5.5	50	27	77	3.5	5.5	12.5~70	
27	ZM65-50-160/7.5	50	34	75	3.1	7.5	12.5~70	2950
28	ZM65-50-200/9.2	50	43	73	3.8	9.2	12.5~70	
29	ZM65-50-200/11	50	50	73	3.8	11	12.5~70	
30	ZM65-50-250/15	50	61.5	67	3.3	15	12.5~70	
31	ZM65-50-250/18.5	50	72.5	64	3.3	18.5	12.5~70	2950
32	ZM65-50-250/22	50	83	65	3.3	22	12.5~70	
33	ZM80-65-125/4	100	10	73	6.1	4	25~125	2900
34	ZM80-65-125/5.5	100	15	79	5.1	5.5	25~130	
35	ZM80-65-125/7.5	100	21	85.5	4.1	7.5	25~130	2950
36	ZM80-65-160/11	100	29.5	84	4.3	11	25~130	
37	ZM80-65-160/15	100	38	84.5	3.9	15	25~130	
38	ZM80-65-200/18.5	100	48	81	4.5	18.5	25~130	
39	ZM80-65-200/22	100	55	81	4.5	22	25~130	
40	ZM80-65-250/30	100	73	77.5	4.6	30	25~130	
41	ZM80-65-250/37	100	84	78	4.8	37	25~130	
42	ZM100-80-160/11	160	18.5	76.5	4.5	11	40~200	
43	ZM100-80-160/15	160	26	80	4.2	15	40~210	
44	ZM100-80-160/18.5	160	31	80.5	3.9	18.5	40~210	
45	ZM100-80-200/22	160	36	82	3.9	22	40~210	
46	ZM100-80-200/30	160	48.5	84	3.9	30	40~210	
47	ZM100-80-200/37	160	57	84	3.9	37	40~210	
48	ZM100-80-250/45	160	70	81	3.9	45	40~210	
49	ZM100-80-250/55	160	86	83	3.9	55	40~210	
50	ZM100-80-250/75	160	104	80	3.9	75	40~210	

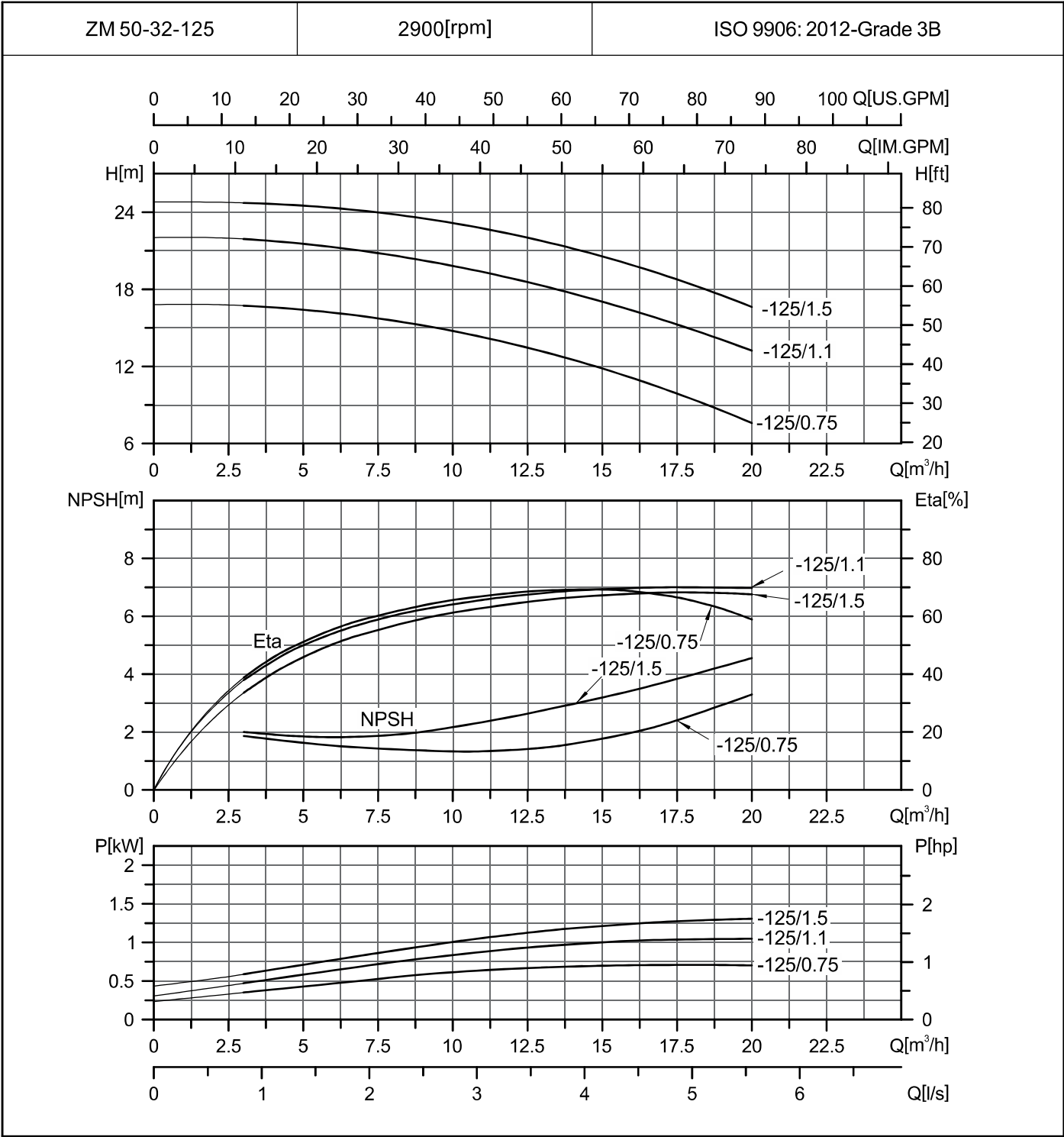
Performance Curve



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	1.5	2	3	4	5	6.3	7	7.5
ZM50-32-125T/0.55	0.55	H (m)	16.7	16.7	16.6	16.5	16.3	16.0	15.8	15.7
ZM50-32-125T/0.75	0.75		21.8	21.8	21.7	21.5	21.3	21.0	20.8	20.4

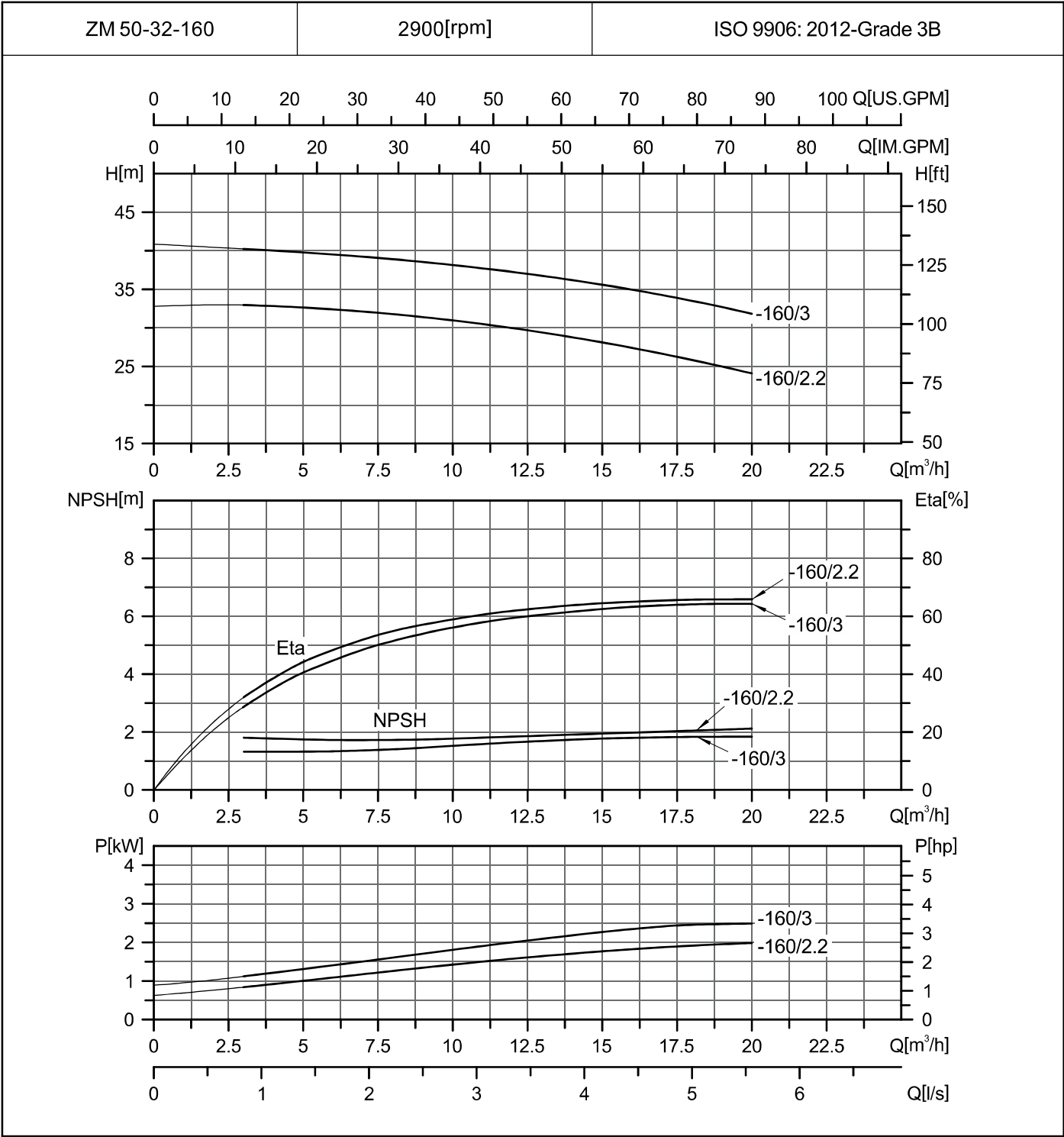
Performance Curve



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	3	5	7.5	10	12.5	15	17.5	20
ZM50-32-125/0.75	0.75	H (m)	16.7	16.4	15.7	14.8	13.5	11.9	9.9	7.6
ZM50-32-125/1.1	1.1		21.9	21.5	20.8	19.8	18.5	17.1	15.3	13.2
ZM50-32-125/1.5	1.5		24.7	24.5	24.0	23.2	22.0	20.5	18.7	16.6

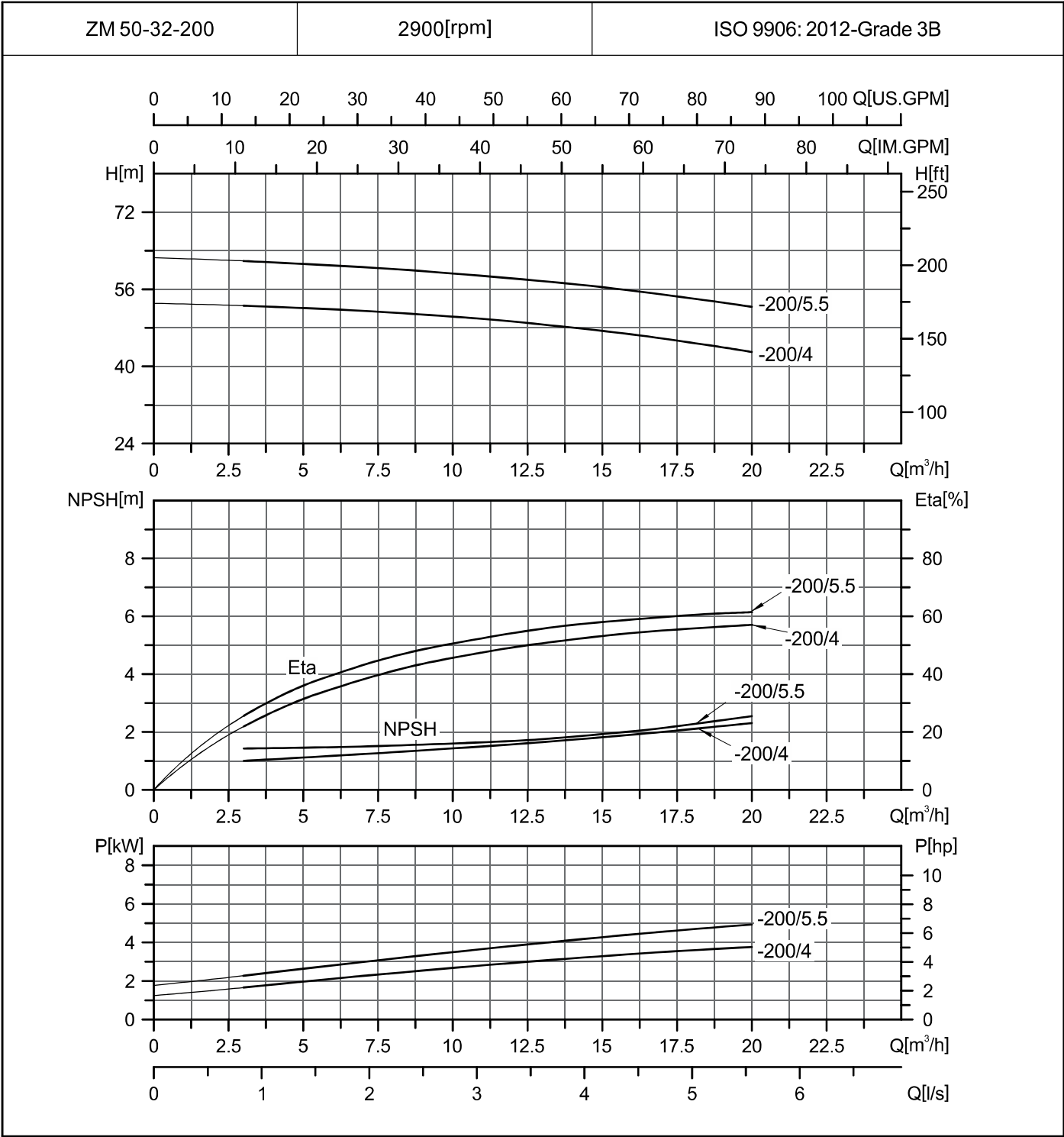
Performance Curve



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	3	5	7.5	10	12.5	15	17.5	20
ZM50-32-160/2.2	2.2	H (m)	33.0	32.7	32.0	31.0	30.0	28.0	26.2	24.1
ZM50-32-160/3	3		40.2	39.8	39.1	38.2	37.0	35.5	33.8	31.8

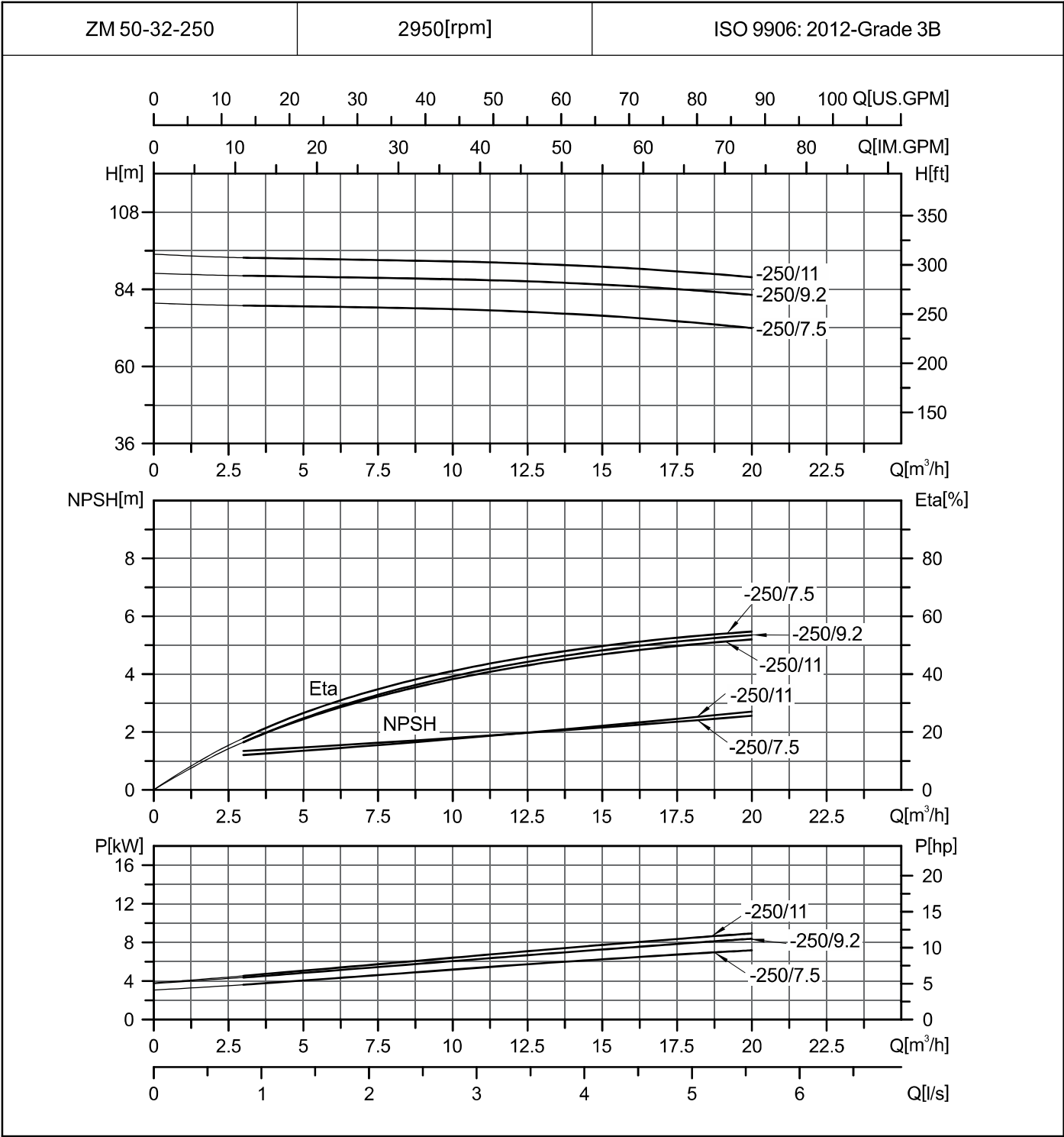
Performance Curve



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	3	5	7.5	10	12.5	15	17.5	20
ZM50-32-200/4	4	H (m)	52.6	52.1	51.3	50.3	49.0	47.4	45.4	43.0
ZM50-32-200/5.5	5.5		61.9	61.3	60.4	59.3	58.0	56.4	54.5	52.3

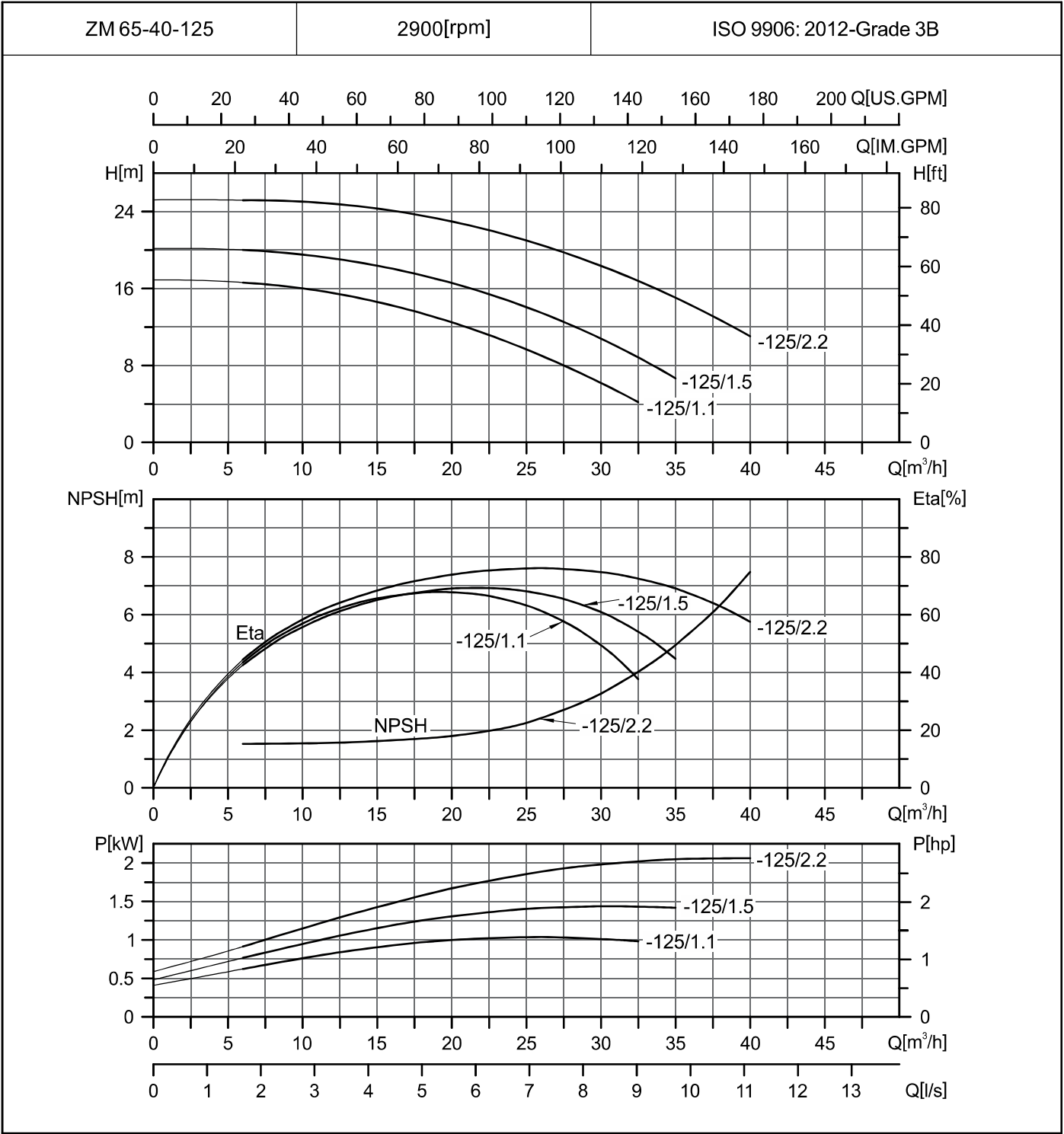
Performance Curve



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	3	5	7.5	10	12.5	15	17.5	20
ZM50-32-250/7.5	7.5	H (m)	78.9	78.6	78.3	77.8	77.0	75.8	74.1	71.9
ZM50-32-250/9.2	9.2		88.3	87.7	86.8	86.0	85.0	83.9	82.5	80.9
ZM50-32-250/11	11		93.8	93.4	93.1	92.6	92.0	91.0	89.6	87.7

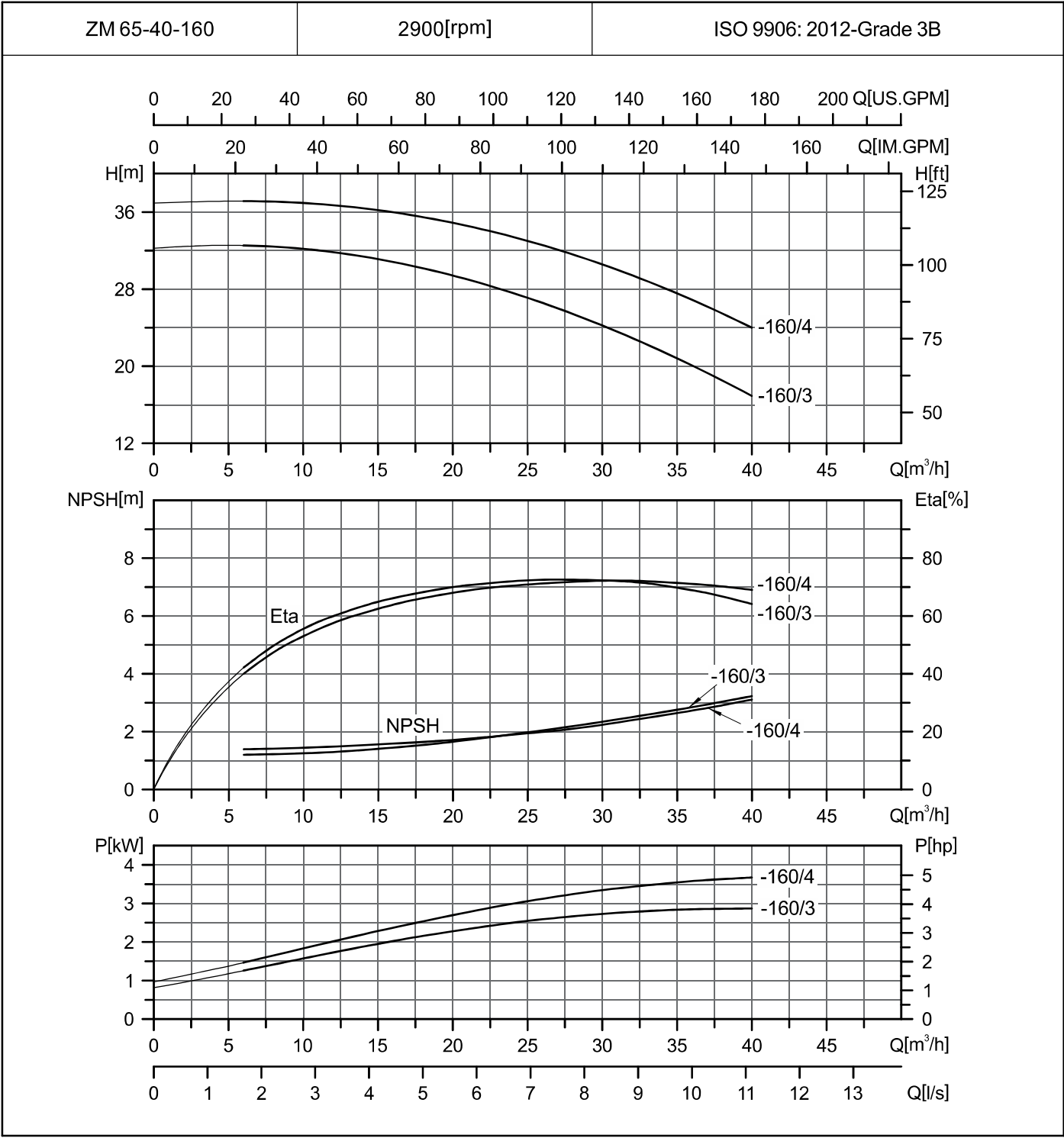
Performance Curve



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	6	10	15	20	25	30	32.5	35	40
ZM65-40-125/1.1	1.1	H (m)	15.8	15.2	13.9	11.8	9.0	5.8	4.2		
ZM65-40-125/1.5	1.5		20.0	19.5	18.4	16.6	14.0	10.7	8.8	6.6	
ZM65-40-125/2.2	2.2		25.2	24.9	24.2	22.9	21.0	18.4	16.8	15.0	11.0

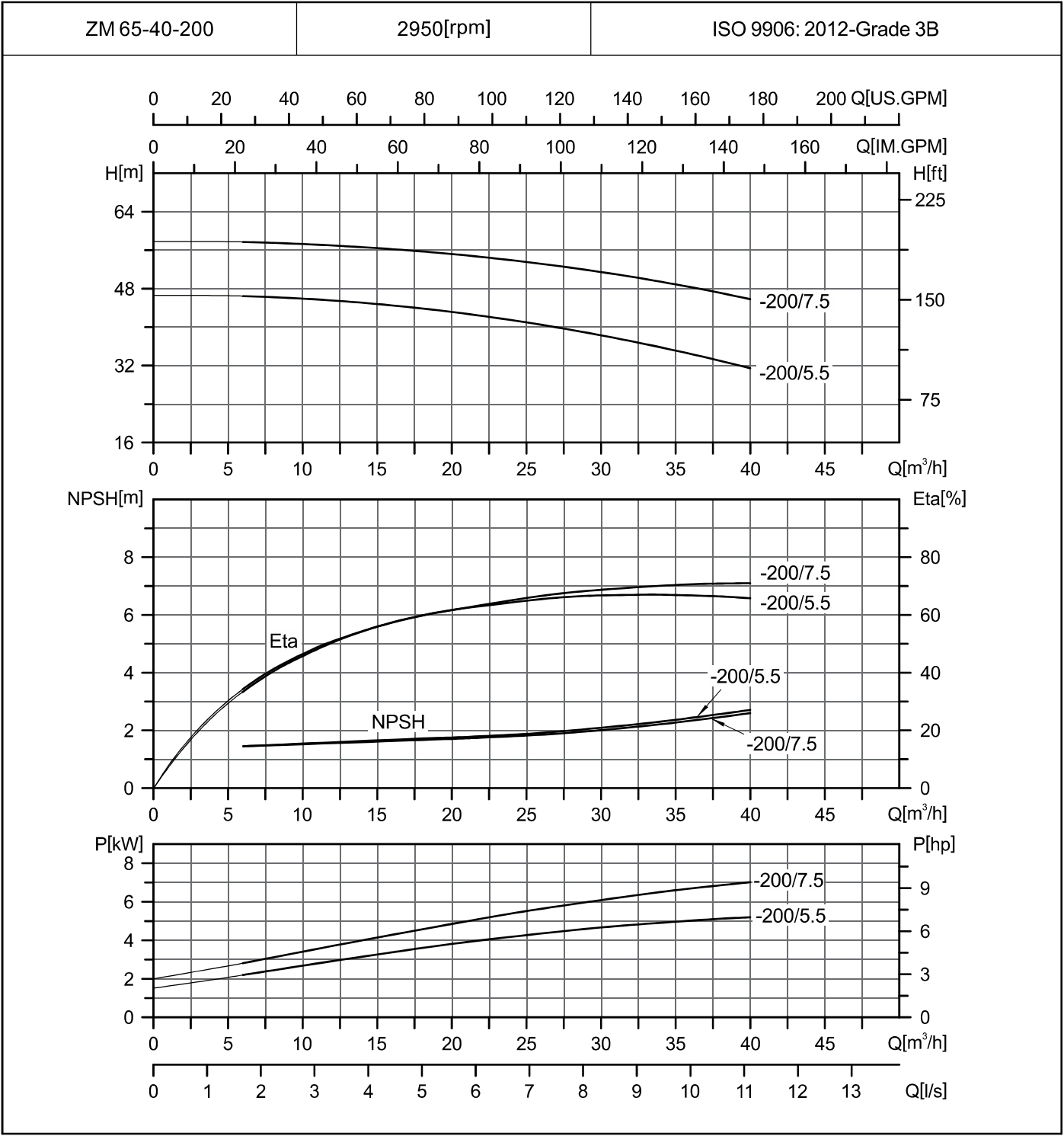
Performance Curve



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	6	10	15	20	25	30	35	40
ZM65-40-160/3	3	H (m)	32.5	32.2	31.1	29.4	27.0	24.2	20.8	16.9
ZM65-40-160/4	4		37.1	36.9	36.2	34.9	33.0	30.5	27.5	24.0

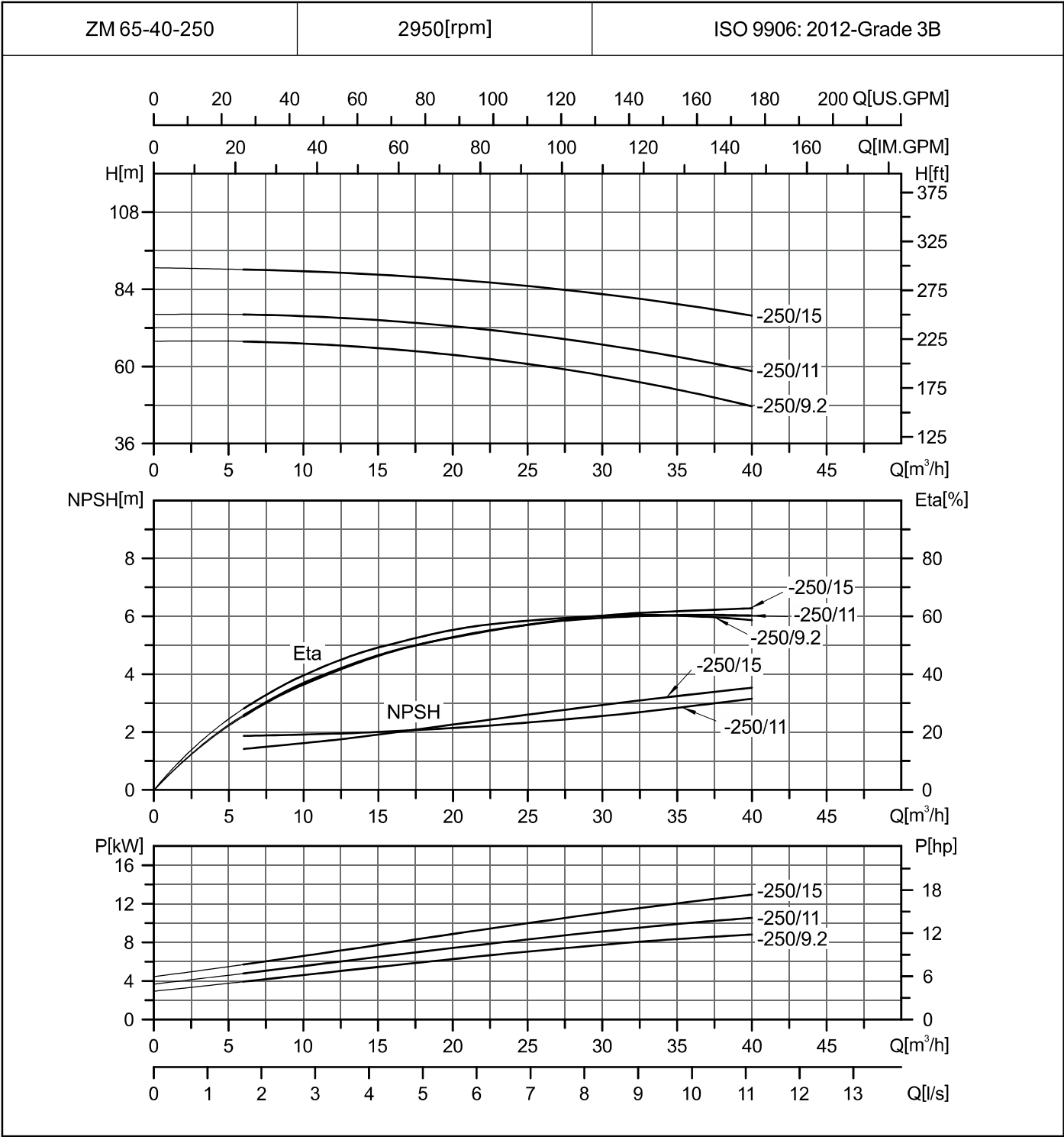
Performance Curve



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	6	10	15	20	25	30	35	40
ZM65-40-200/5.5	5.5	H (m)	46.4	45.9	44.8	43.2	41.0	38.2	35.0	31.4
ZM65-40-200/7.5	7.5		57.7	57.3	56.5	55.2	53.5	51.4	48.8	45.8

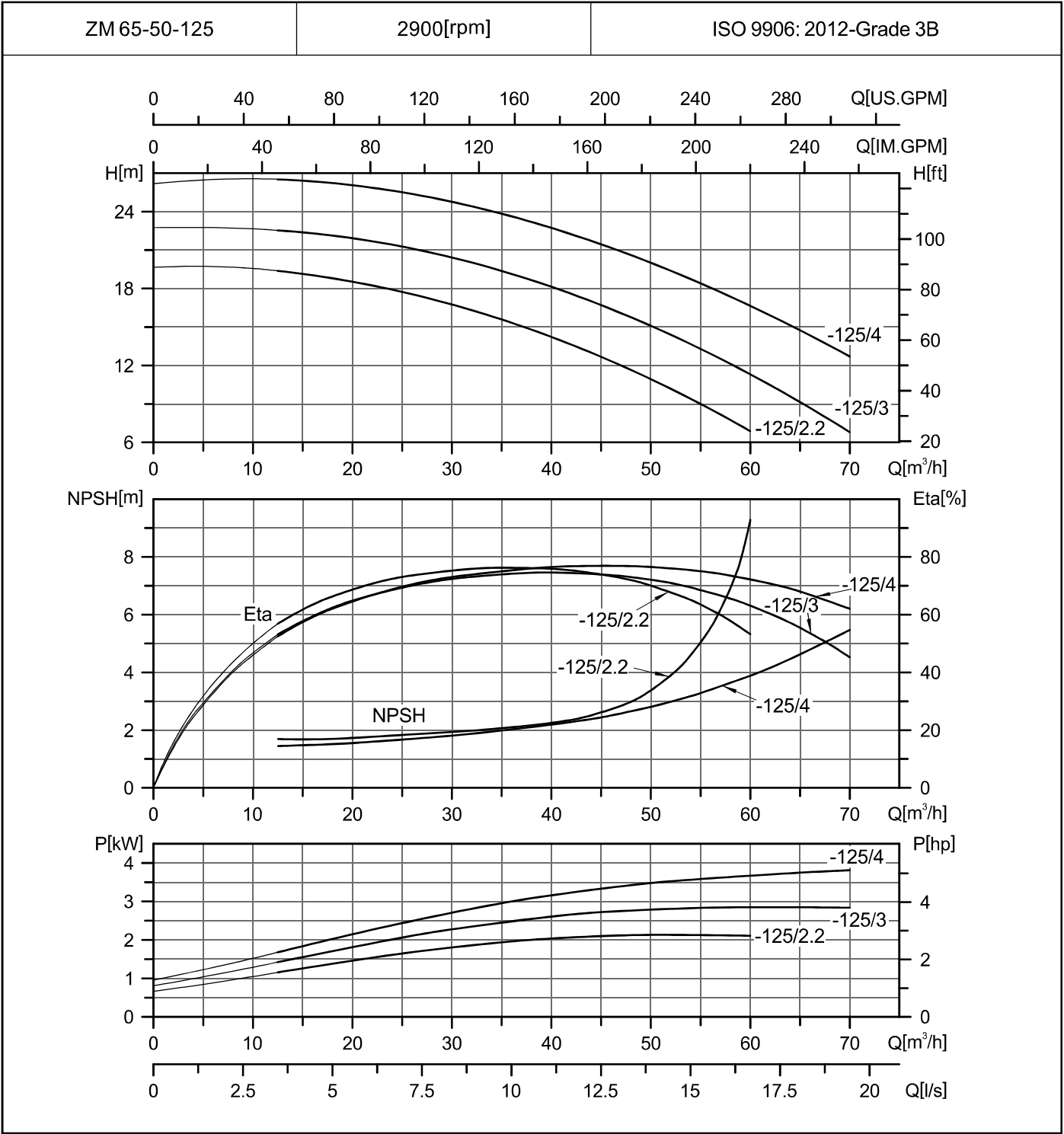
Performance Curve



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	6	10	15	20	25	30	35	40
ZM65-40-250/9.2	9.2	H (m)	67.7	67.1	65.7	63.6	61.0	57.2	52.9	47.6
ZM65-40-250/11	11		76.1	75.6	74.3	72.5	70.0	66.9	63.1	58.5
ZM65-40-250/15	15		90.1	89.5	88.5	87.0	85.0	82.5	79.4	75.8

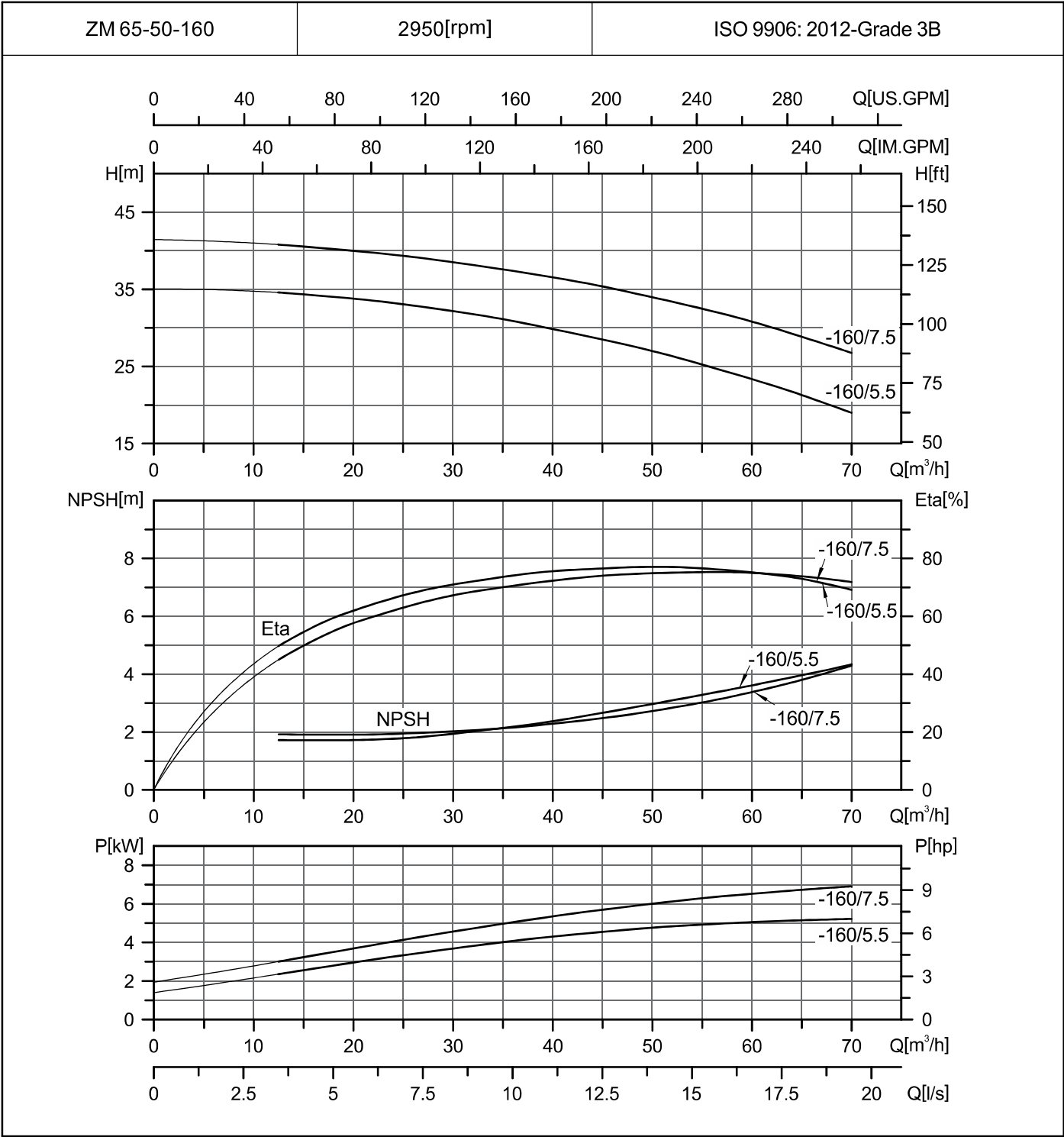
Performance Curve



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	12.5	20	30	40	50	60	65	70
ZM65-50-125/2.2	2.2	H (m)	19.4	18.5	16.7	14.2	11.0	6.9		
ZM65-50-125/3	3		22.5	21.9	20.4	18.1	14.5	11.2	9.0	6.8
ZM65-50-125/4	4		26.5	26.1	24.8	22.7	20.0	16.6	14.7	12.7

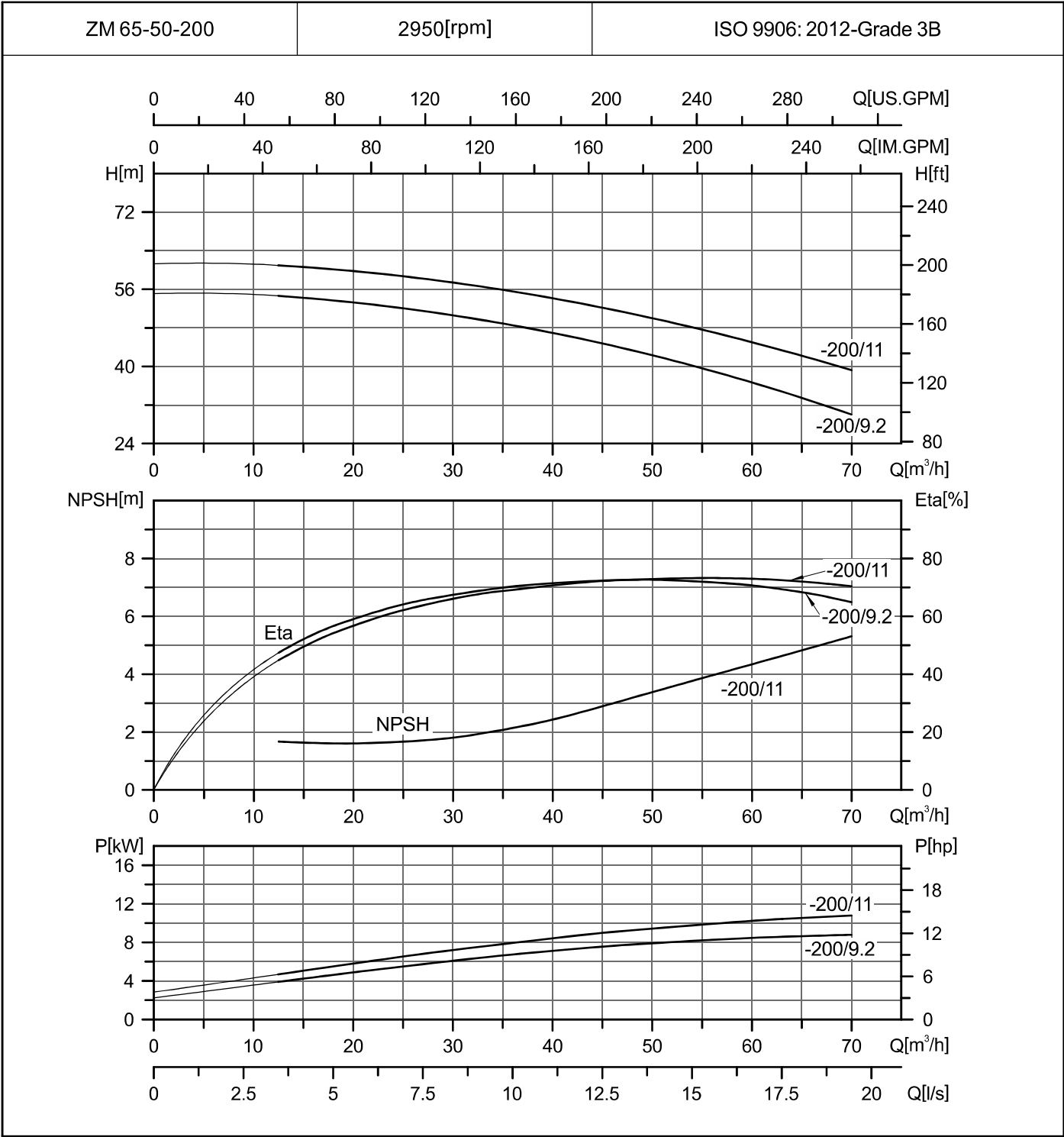
Performance Curve



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	12.5	20	30	40	50	60	65	70
ZM65-50-160/5.5	5.5	H (m)	34.6	33.8	32.2	29.9	27.0	23.4	21.3	19.0
ZM65-50-160/7.5	7.5		40.8	40.0	38.5	36.6	34.0	30.8	28.9	26.7

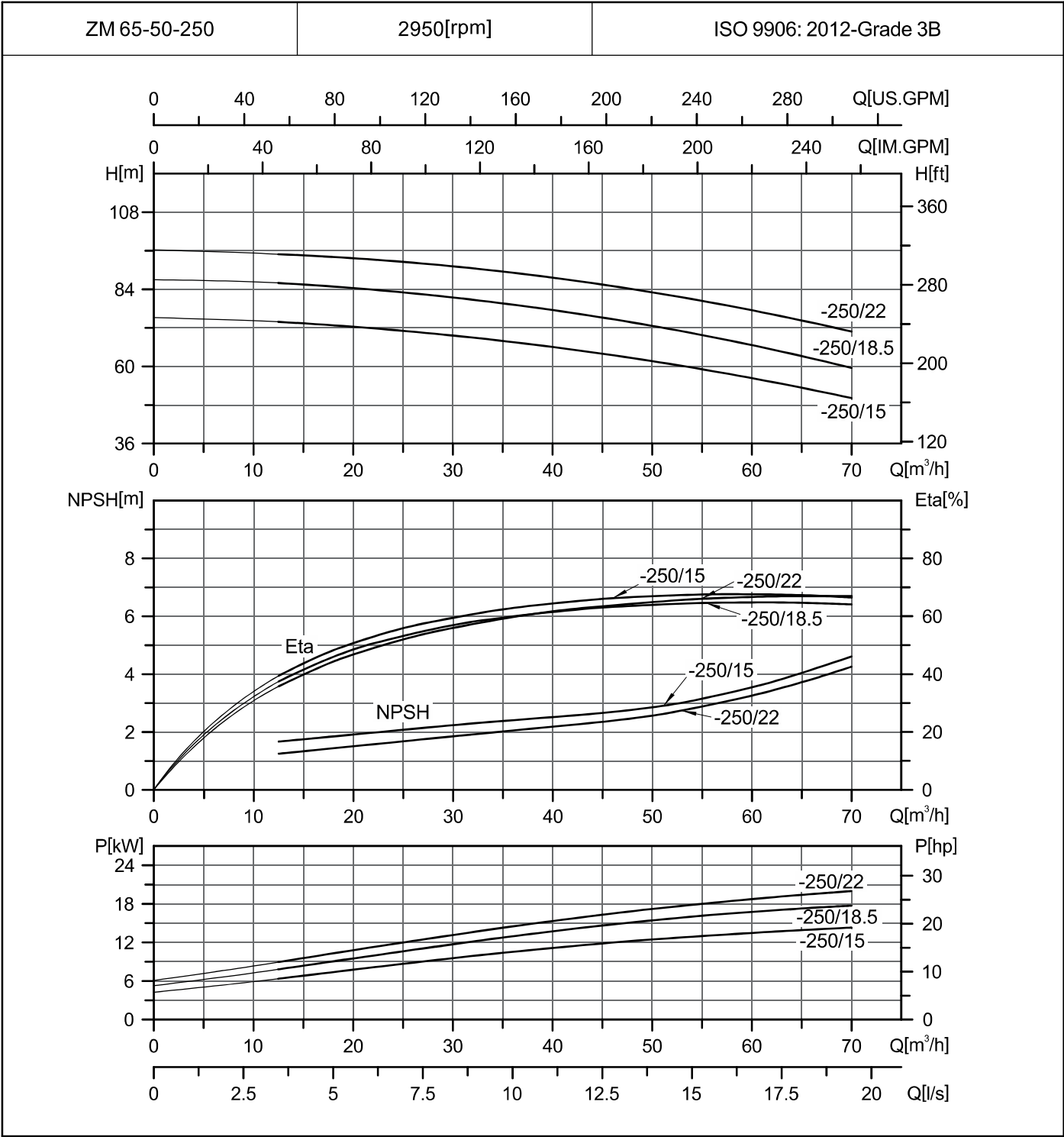
Performance Curve



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	12.5	20	30	40	50	60	65	70
ZM65-50-200/9.2	9.2	H (m)	55.5	54.2	51.4	47.7	43.0	37.3	34.0	30.5
ZM65-50-200/11	11		60.9	59.8	57.4	54.1	50.0	45.0	42.2	39.2

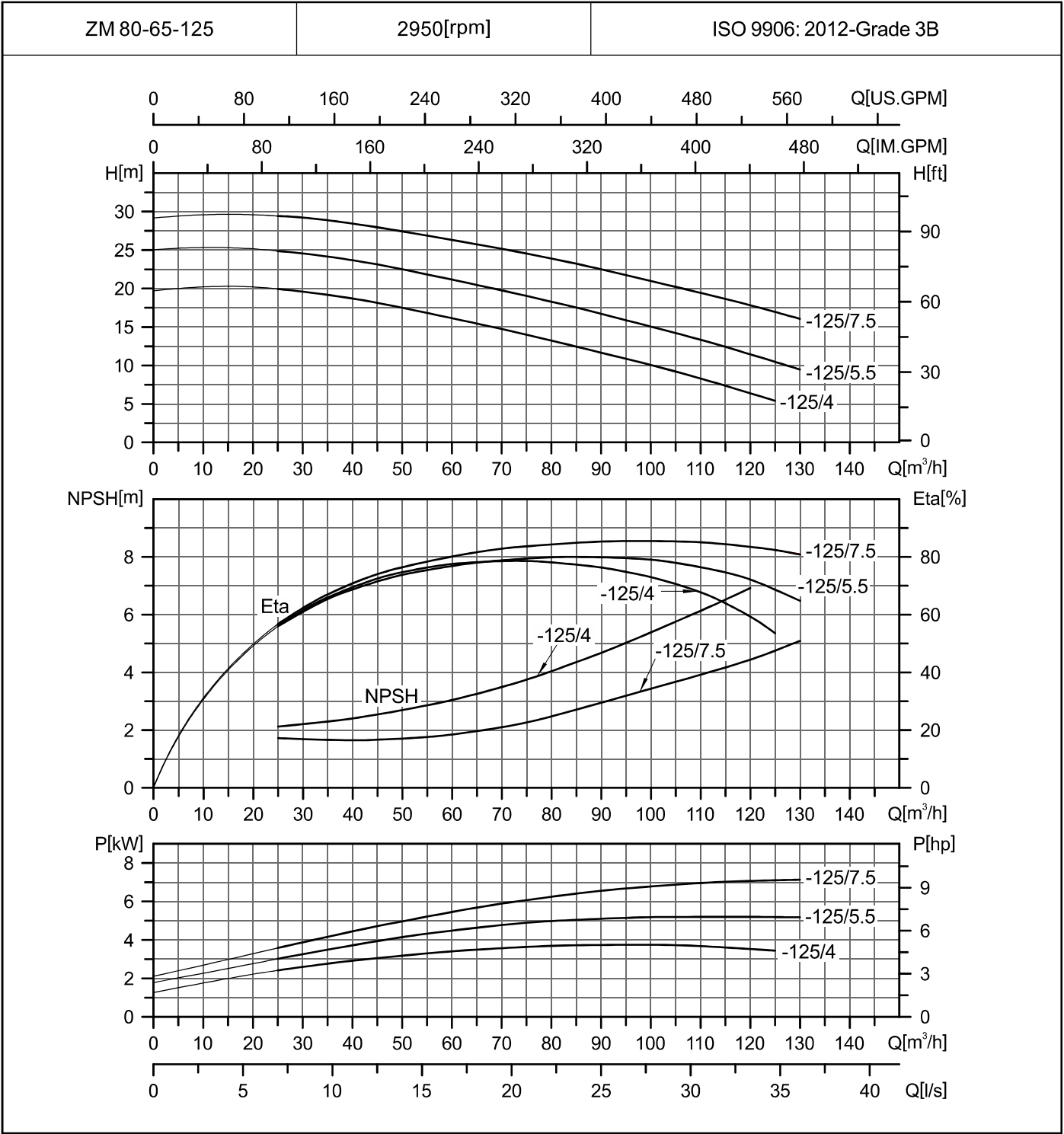
Performance Curve



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	12.5	20	30	40	50	60	65	70
ZM65-50-250/15	15	H (m)	73.4	72.0	69.4	65.7	61.5	55.6	52.7	49.8
ZM65-50-250/18.5	18.5		85.9	84.5	81.6	77.6	72.5	66.4	63.1	59.5
ZM65-50-250/22	22		94.9	93.6	91.1	87.6	83.0	77.3	74.2	70.8

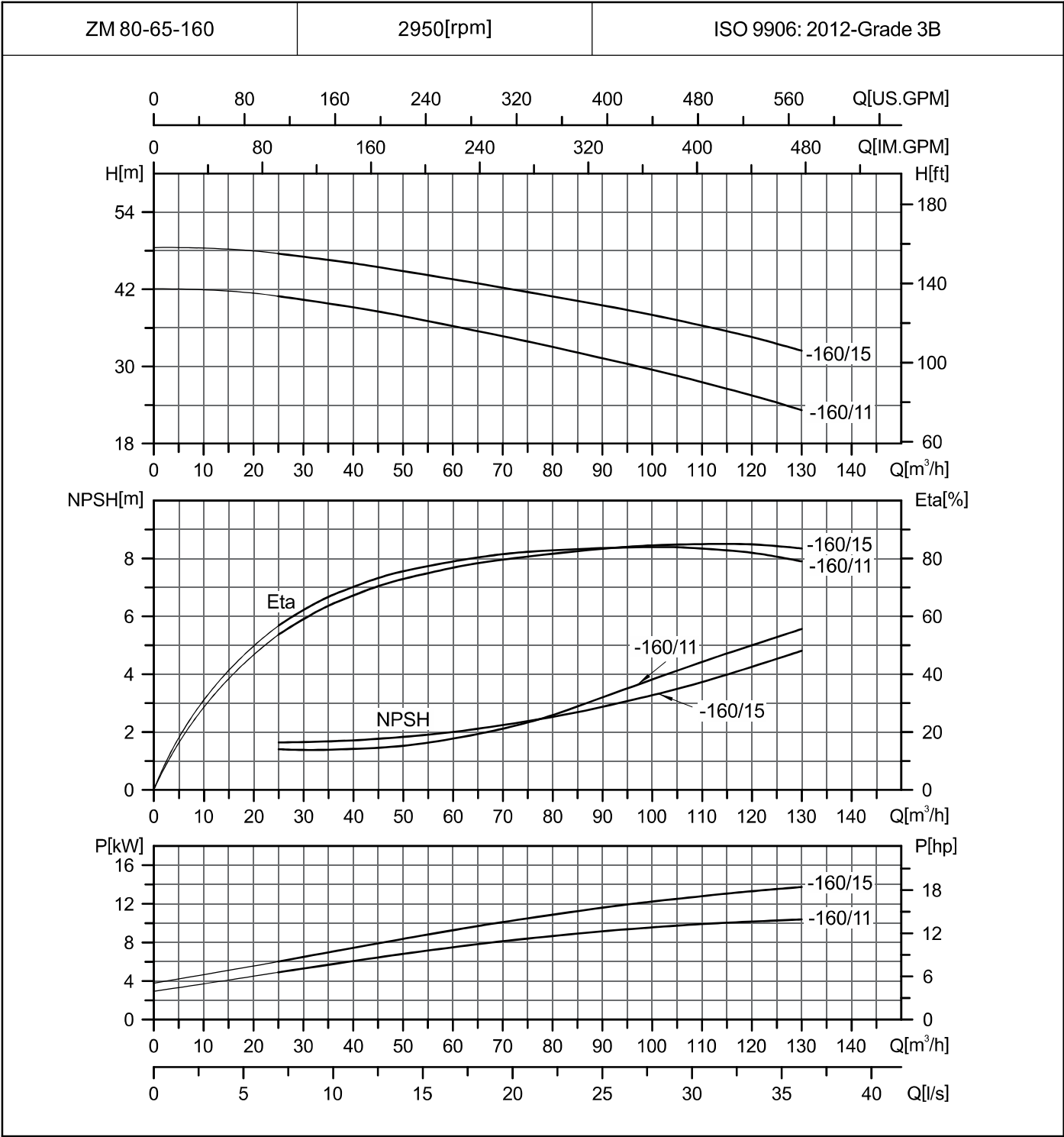
Performance Curve



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	25	30	40	50	60	70	80	90	100	110	120	130
ZM80-65-125/4	4	H (m)	19.9	19.6	18.7	17.5	16.2	14.7	13.2	11.7	10.0	8.3	6.4	
ZM80-65-125/5.5	5.5		24.8	24.4	23.5	22.4	21.1	19.7	18.2	16.6	15.0	13.3	11.4	9.4
ZM80-65-125/7.5	7.5		29.4	29.2	28.4	27.5	26.4	25.2	23.9	22.5	21.0	19.5	17.8	16.0

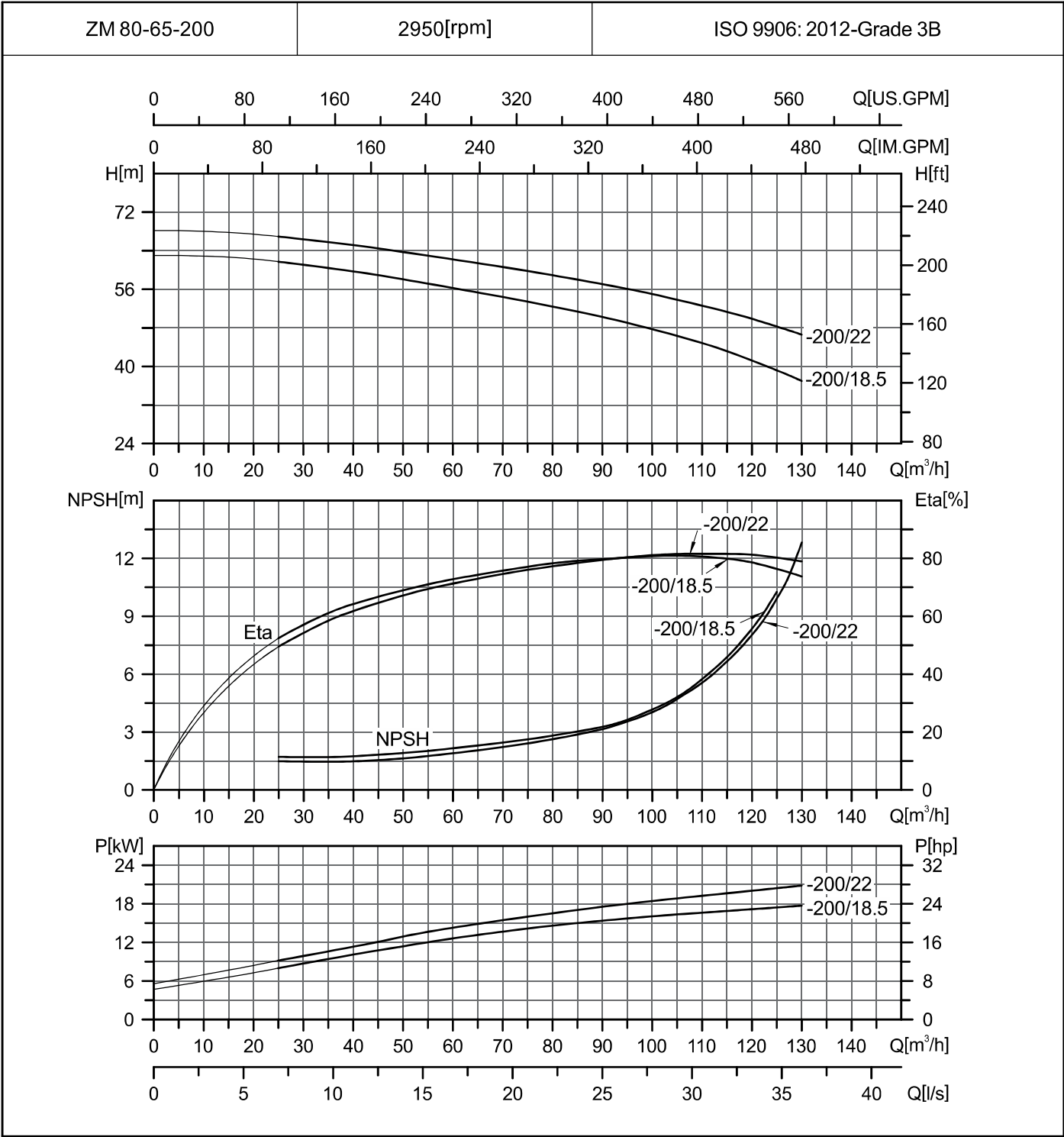
Performance Curve



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	25	30	40	50	60	70	80	90	100	110	120	130
ZM80-65-160/11	11	H (m)	40.9	40.4	39.2	37.8	36.3	34.7	33.0	31.3	29.5	27.6	25.5	23.2
ZM80-65-160/15	15		47.5	47.1	46.0	44.8	43.6	42.2	40.9	39.5	38.0	36.4	34.6	32.4

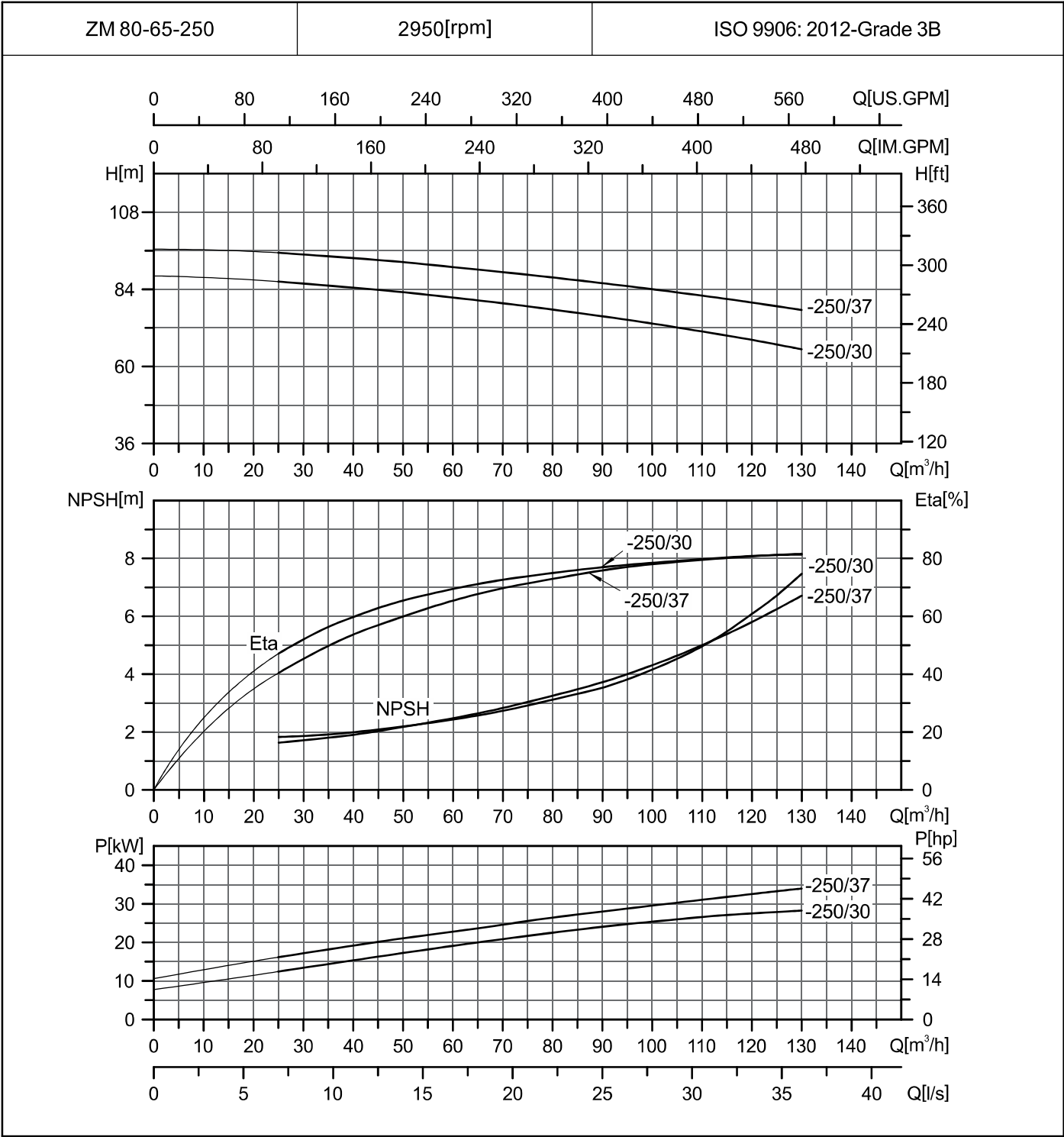
Performance Curve



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	25	30	40	50	60	70	80	90	100	110	120	130
ZM80-65-200/18.5	18.5	H (m)	61.7	61.1	59.7	58.1	56.3	54.5	52.5	50.2	48.0	44.8	41.3	37.0
ZM80-65-200/22	22		66.9	66.4	65.1	63.7	62.2	60.6	58.9	57.0	55.0	52.7	49.9	46.6

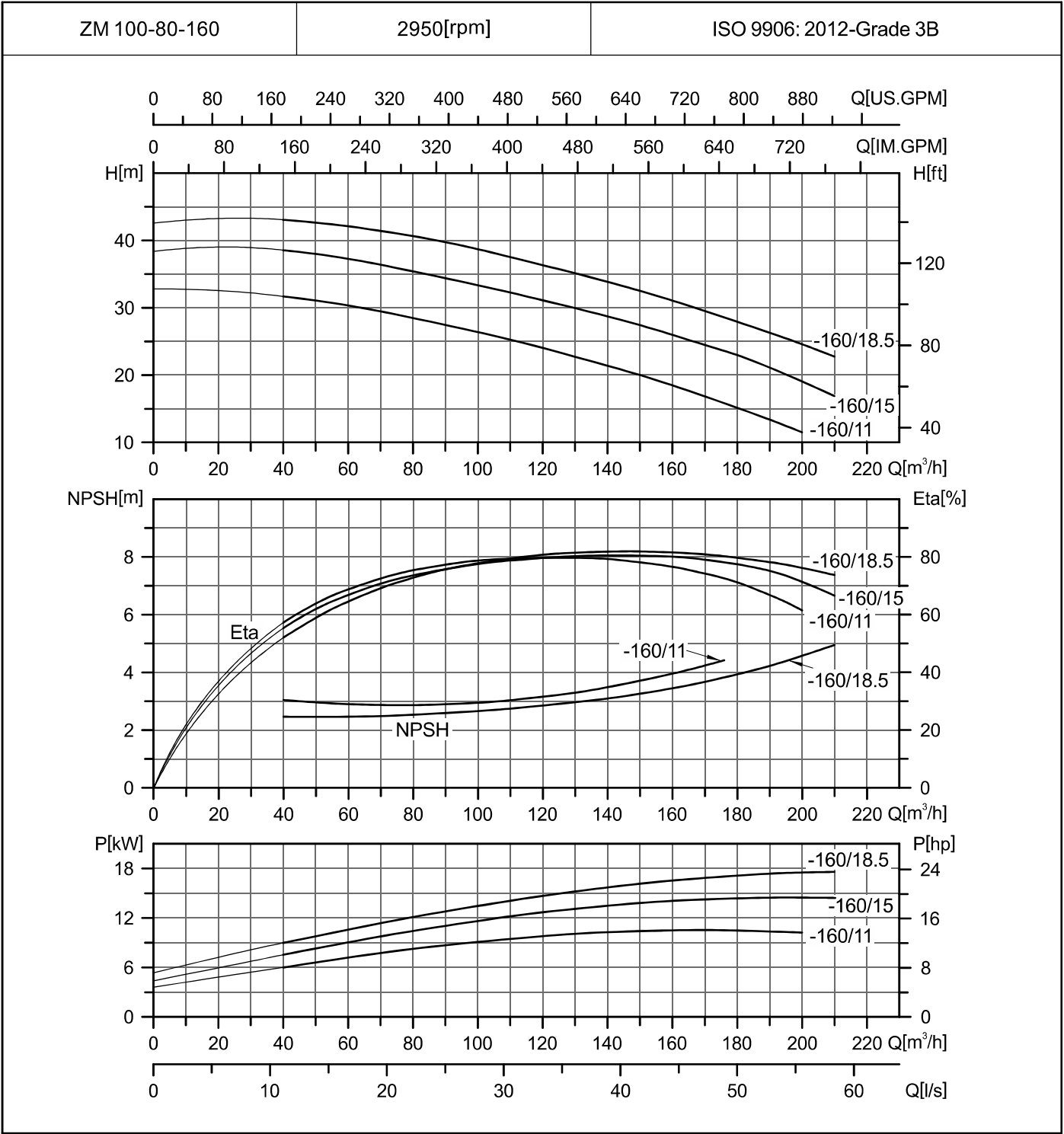
Performance Curve



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	25	30	40	50	60	70	80	90	100	110	120	130
ZM80-65-250/30	30	H (m)	86.4	85.8	84.5	83.1	81.4	79.6	77.7	75.6	73.0	70.9	68.2	65.3
ZM80-65-250/37	37		95.3	94.9	93.7	92.4	90.9	89.4	87.7	85.9	84.0	82.0	79.9	77.5

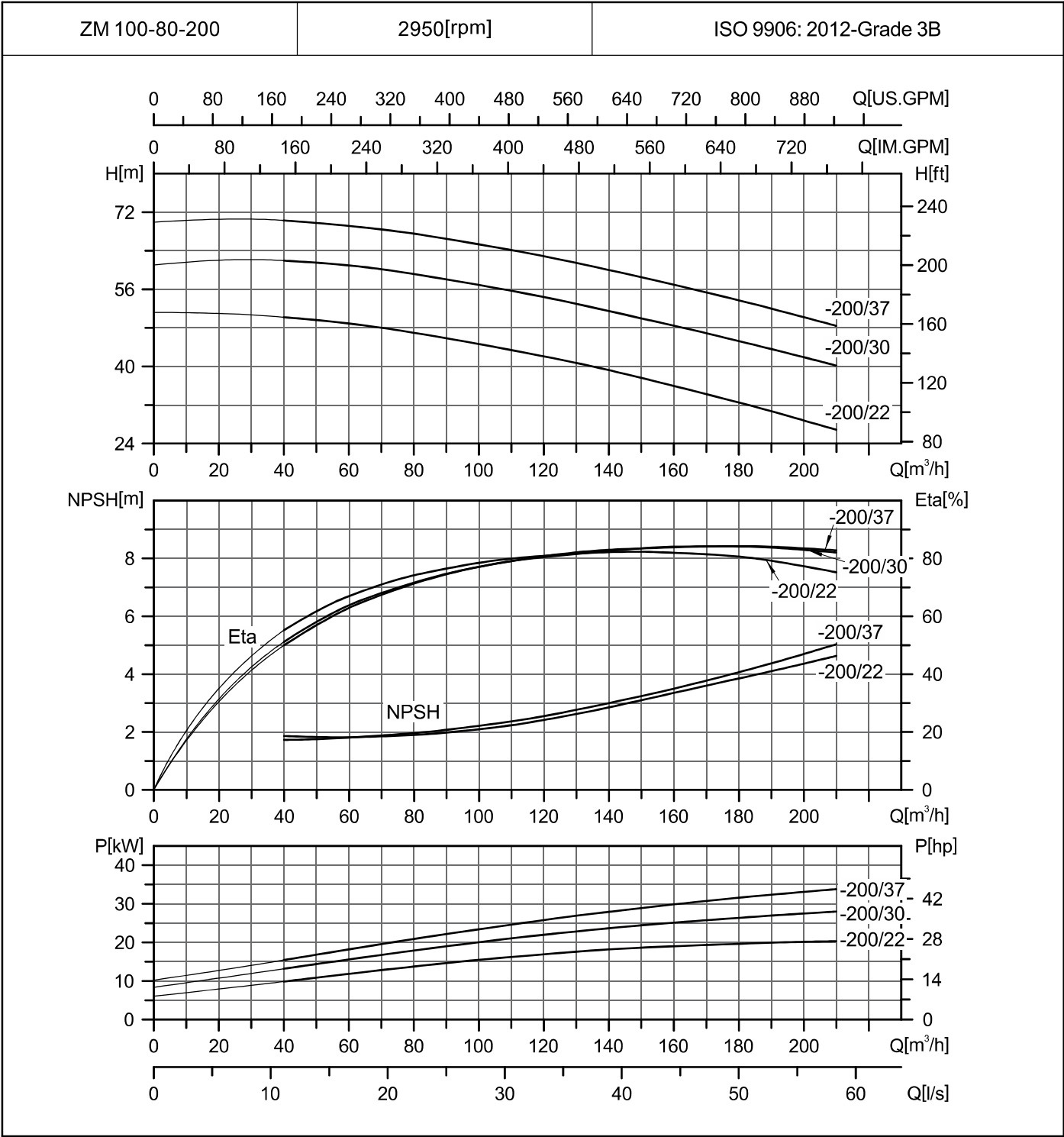
Performance Curve



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	40	60	80	100	120	140	160	180	200	210
ZM100-80-160/11	11	H (m)	31.7	30.3	28.5	26.4	24.0	21.4	18.5	15.2	11.5	
ZM100-80-160/15	15		38.5	37.2	35.4	33.4	31.1	28.7	26.0	23.5	19.1	16.9
ZM100-80-160/18.5	18.5		43.1	42.1	40.6	38.6	36.4	33.8	31.0	28.0	24.6	22.7

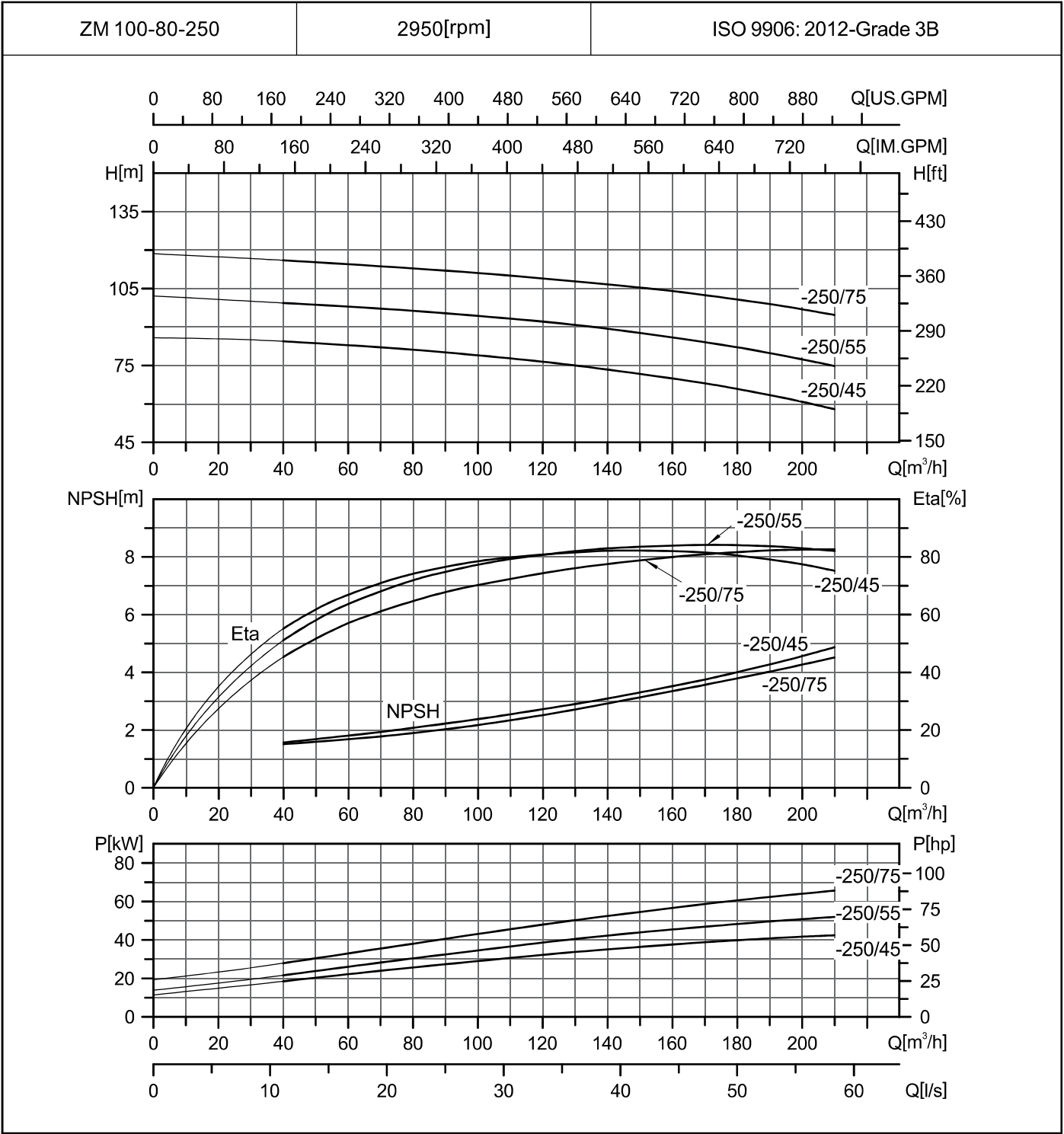
Performance Curve



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	40	60	80	100	120	140	160	180	200	210
ZM100-80-200/22	22	H (m)	50.2	48.8	47.0	44.8	42.1	39.2	36.0	32.5	28.8	26.9
ZM100-80-200/30	30		61.9	60.9	59.2	57.0	54.4	51.5	48.5	45.3	41.9	40.2
ZM100-80-200/37	37		70.3	69.2	67.5	65.4	62.8	60.0	57.0	53.7	50.2	48.4

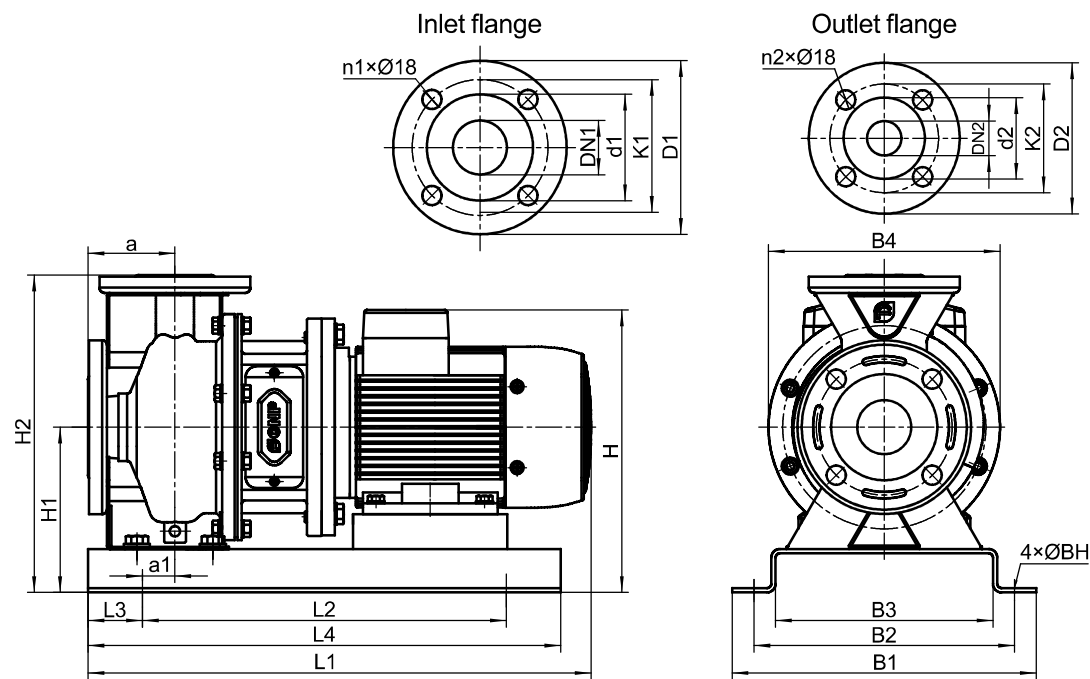
Performance Curve



Performance Table

Pump model	Motor power (kW)	Q (m³/h)	40	60	80	100	120	140	160	180	200	210
ZM100-80-250/45	45	H (m)	84.4	82.9	81.1	79.0	76.4	73.5	70.0	65.8	60.8	57.9
ZM100-80-250/55	55		99.3	97.9	96.2	94.3	92.1	89.3	86.0	82.1	77.4	74.7
ZM100-80-250/75	75		115.9	114.4	112.8	111.0	109.0	106.7	104.0	100.8	96.9	94.6

Installation Dimension Drawing



Installation Dimension Table

Measurement: mm

Pump model	DN1	DN2	d1	d2	K1	K2	D1	D2	n1	n2	a	a1	H	H1	H2	L1	L2	L3	L4	B1	B2	B3	B4	BH	Weight (kg)
ZM50-32-125T/0.55	50	32	98	75	125	100	160	139	4	4	80	30	255	152	292	434	335	50	435	280	240	200	213	14	22
ZM50-32-125T/0.75	50	32	98	75	125	100	160	139	4	4	80	30	260	152	292	463	335	50	435	280	240	200	213	14	28
ZM50-32-125/0.75	50	32	98	75	125	100	160	139	4	4	80	30	260	152	292	463	335	50	435	280	240	200	213	14	28
ZM50-32-125/1.1	50	32	98	75	125	100	160	139	4	4	80	30	260	152	292	463	335	50	435	280	240	200	213	14	29
ZM50-32-125/1.5	50	32	98	75	125	100	160	139	4	4	80	30	271	152	292	507	335	50	435	280	240	200	213	14	34
ZM50-32-160/2.2	50	32	98	75	125	100	160	139	4	4	80	30	291	172	332	505	405	50	505	340	300	252	254	14	42
ZM50-32-160/3	50	32	98	75	125	100	160	139	4	4	80	30	305	172	332	561	405	50	505	340	300	252	254	14	52
ZM50-32-200/4	50	32	98	75	125	100	160	139	4	4	80	30	350	200	380	576	475	50	575	380	340	292	300	14	63
ZM50-32-200/5.5	50	32	98	75	125	100	160	139	4	4	80	30	372	200	380	619.5	475	50	575	380	340	292	300	14	82
ZM50-32-250/7.5	50	32	98	75	125	100	160	139	4	4	100	40	392	220	445	645	525	60	645	430	390	342	350	14	100
ZM50-32-250/9.2	50	32	98	75	125	100	160	139	4	4	100	40	392	220	445	660.5	525	60	645	430	390	342	350	14	105
ZM50-32-250/11	50	32	98	75	125	100	160	139	4	4	100	40	441	220	445	786.5	665	60	785	430	390	342	350	14	168
ZM65-40-125/1.1	65	40	118	84	145	110	185	145	4	4	80	30	280	152	292	463	335	50	435	280	240	200	208	14	29
ZM65-40-125/1.5	65	40	118	84	145	110	185	145	4	4	80	30	271	152	292	507	335	50	435	280	240	200	208	14	35
ZM65-40-125/2.2	65	40	118	84	145	110	185	145	4	4	80	30	271	152	292	507	335	50	435	280	240	200	208	14	38
ZM65-40-160/3	65	40	118	84	145	110	185	145	4	4	80	30	305	172	332	563.5	405	50	505	340	300	252	254	14	52
ZM65-40-160/4	65	40	118	84	145	110	185	145	4	4	80	30	322	172	332	575	405	50	505	340	300	252	254	14	59

Installation Dimension Table

Measurement: mm

Pump model	DN1	DN2	d1	d2	K1	K2	D1	D2	n1	n2	a	a1	H	H1	H2	L1	L2	L3	L4	B1	B2	B3	B4	BH	Weight (kg)
ZM65-40-200/5.5	65	40	118	84	145	110	185	145	4	4	100	40	372	200	380	642.5	485	60	605	380	340	292	300	14	83
ZM65-40-200/7.5	65	40	118	84	145	110	185	145	4	4	100	40	372	200	380	642.5	485	60	605	380	340	292	300	14	91
ZM65-40-250/9.2	65	40	118	84	145	110	185	145	4	4	100	40	392	220	445	667.5	525	60	645	430	390	342	350	14	105
ZM65-40-250/11	65	40	118	84	145	110	185	145	4	4	100	40	441	220	445	789.5	665	60	785	430	390	342	350	14	169
ZM65-40-250/15	65	40	118	84	145	110	185	145	4	4	100	40	441	220	445	789.5	665	60	785	430	390	342	350	14	184
ZM65-50-125/2.2	65	50	118	98	145	125	185	160	4	4	100	40	291	172	332	535.5	415	60	535	340	300	252	213	14	41
ZM65-50-125/3	65	50	118	98	145	125	185	160	4	4	100	40	305	172	332	591.5	415	60	535	340	300	252	250	14	51
ZM65-50-125/4	65	50	118	98	145	125	185	160	4	4	100	40	322	172	332	603	415	60	535	340	300	252	250	14	58
ZM65-50-160/5.5	65	50	118	98	145	125	185	160	4	4	100	40	372	200	380	653.5	485	60	605	380	340	292	300	14	81
ZM65-50-160/7.5	65	50	118	98	145	125	185	160	4	4	100	40	372	200	380	653.5	485	60	605	380	340	292	300	14	89
ZM65-50-200/9.2	65	50	118	98	145	125	185	160	4	4	100	40	372	200	400	657.5	485	60	605	380	340	292	350	14	97
ZM65-50-200/11	65	50	118	98	145	125	185	160	4	4	100	40	421	200	400	782.3	665	60	785	430	390	342	350	14	163
ZM65-50-250/15	65	50	118	98	145	125	185	160	4	4	100	40	441	220	445	789.8	670	60	790	455	415	365	350	14	186
ZM65-50-250/18.5	65	50	118	98	145	125	185	160	4	4	100	40	441	220	445	834	670	60	790	455	415	365	350	14	194
ZM65-50-250/22	65	50	118	98	145	125	185	160	4	4	100	40	460	220	445	868	670	60	790	455	415	365	350	14	246
ZM80-65-125/4	80	65	130	118	160	145	200	185	8	4	100	40	350	200	380	605	485	60	605	380	340	292	250	14	60
ZM80-65-125/5.5	80	65	130	118	160	145	200	185	8	4	100	40	372	200	380	656.5	485	60	605	380	340	292	300	14	78
ZM80-65-125/7.5	80	65	130	118	160	145	200	185	8	4	100	40	372	200	380	656.5	485	60	605	380	340	292	300	14	86
ZM80-65-160/11	80	65	130	118	160	145	200	185	8	4	100	40	421	200	400	797.5	665	60	785	430	390	342	350	14	160
ZM80-65-160/15	80	65	130	118	160	145	200	185	8	4	100	40	421	200	400	797.5	665	60	785	430	390	342	350	14	175
ZM80-65-200/18.5	80	65	130	118	160	145	200	185	8	4	100	40	441	220	445	835	670	60	790	455	415	365	350	14	190
ZM80-65-200/22	80	65	130	118	160	145	200	185	8	4	100	40	460	220	445	869	670	60	790	455	415	365	355	14	243
ZM80-65-250/30	80	65	130	118	160	145	200	185	8	4	100	40	502	240	490	953	785	60	905	495	455	405	420	14	314
ZM80-65-250/37	80	65	130	118	160	145	200	185	8	4	100	40	502	240	490	953	785	60	905	495	455	405	420	14	334
ZM100-80-160/11	100	80	150	130	180	160	220	200	8	8	125	55	441	220	445	832.5	690	70	830	430	390	340	350	14	164
ZM100-80-160/15	100	80	150	130	180	160	220	200	8	8	125	55	441	220	445	832.5	690	70	830	430	390	340	350	14	179
ZM100-80-160/18.5	100	80	150	130	180	160	220	200	8	8	125	55	441	220	445	876.5	690	70	830	430	390	340	350	14	187
ZM100-80-200/22	100	80	150	130	180	160	220	200	8	8	125	55	460	220	470	905	765	70	905	495	455	405	355	14	249
ZM100-80-200/30	100	80	150	130	180	160	220	200	8	8	125	55	502	240	490	988	765	70	905	495	455	405	400	14	310
ZM100-80-200/37	100	80	150	130	180	160	220	200	8	8	125	55	502	240	490	988	765	70	905	495	455	405	400	14	330
ZM100-80-250/45	100	80	150	130	180	160	220	200	8	8	125	55	572	285	565	1043	755	70	895	560	520	464	450	14	457
ZM100-80-250/55	100	80	150	130	180	160	220	200	8	8	125	55	646	330	610	1156	865	70	1005	640	590	520	550	22	543
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