

hydroo®

NDROO SERIES

NSX, NSN

Stainless steel single stage end
suction pump

不锈钢单级端吸泵

50Hz





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PRESENTATION

HYDROO has set up a worldwide distribution network together with key partners, providing value to our pump engineers and end users. Ours is a wide range product portfolio with high-end solutions for the pumping business in many applications including water supply, booster sets, fire-fighting sets, borehole wells, HVAC, drainage and sewage, utilities, irrigation, desalination and RO sets, OEM Integration among many others. We provide solutions for all the markets of 50 Hz and 60 Hz, including customized versions.

HYDROO has a factory in Palol de Revardit (Catalonia-Spain) seized to guarantee our reliable, long-term based, personalized treatment and best service to all our customers. We can provide a wide range of products in an extremely short delivery time from our factory, thanks to our Lean manufacturing processes and our qualified enthusiastic team.

We have compiled our commitment with ethics and legislation in relation to third parties in a public document of principles. The document has been worked with the entire HYDROO team and its deployment has been started with a committee that will ensure compliance and strengthening in the business culture of the company.

The expansion of HYDROO by means of excellence in operations and successful business relationship with our partners is symbolized in the growth pace in the target markets and the valuable timely and effective service.

At HYDROO we bet on a high level service to our valued pump partners.

NSX, NSN

**Stainless steel
single stage
end suction
pump**

Applications

**Clean system
Food and Beverage
Suction of mildly corrosive media
HVAC system
Heating system
industrial boosting
Water treatment**



Description

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

Performance range

Capacity: Q up to 210 m³/h

Head: H up to 104 m

Temperature: -20°C to 100°C

Working pressure: p up to 10bar

Power: P up to 75 kW

**Diameter: Suction DN50 to DN100
Discharge DN32 to DN80**

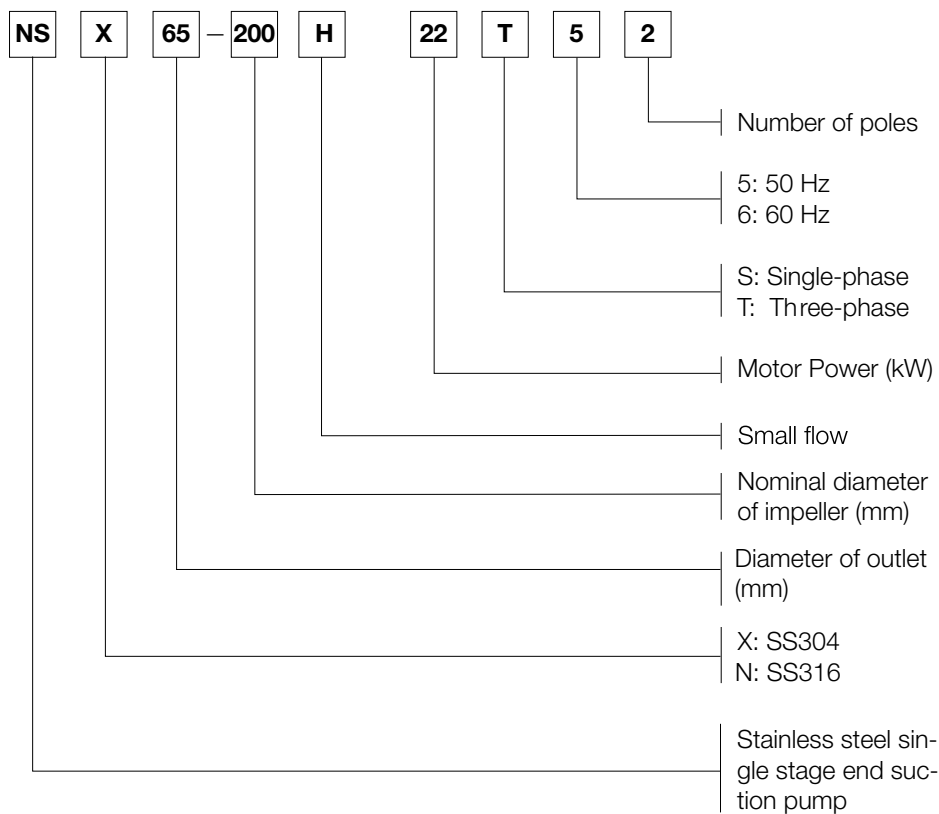
Operating Conditions

Liquids that are thin, clean, non-flammable, non-explosive, and do not contain solid particles and fibers; physically and chemically water-like liquid.

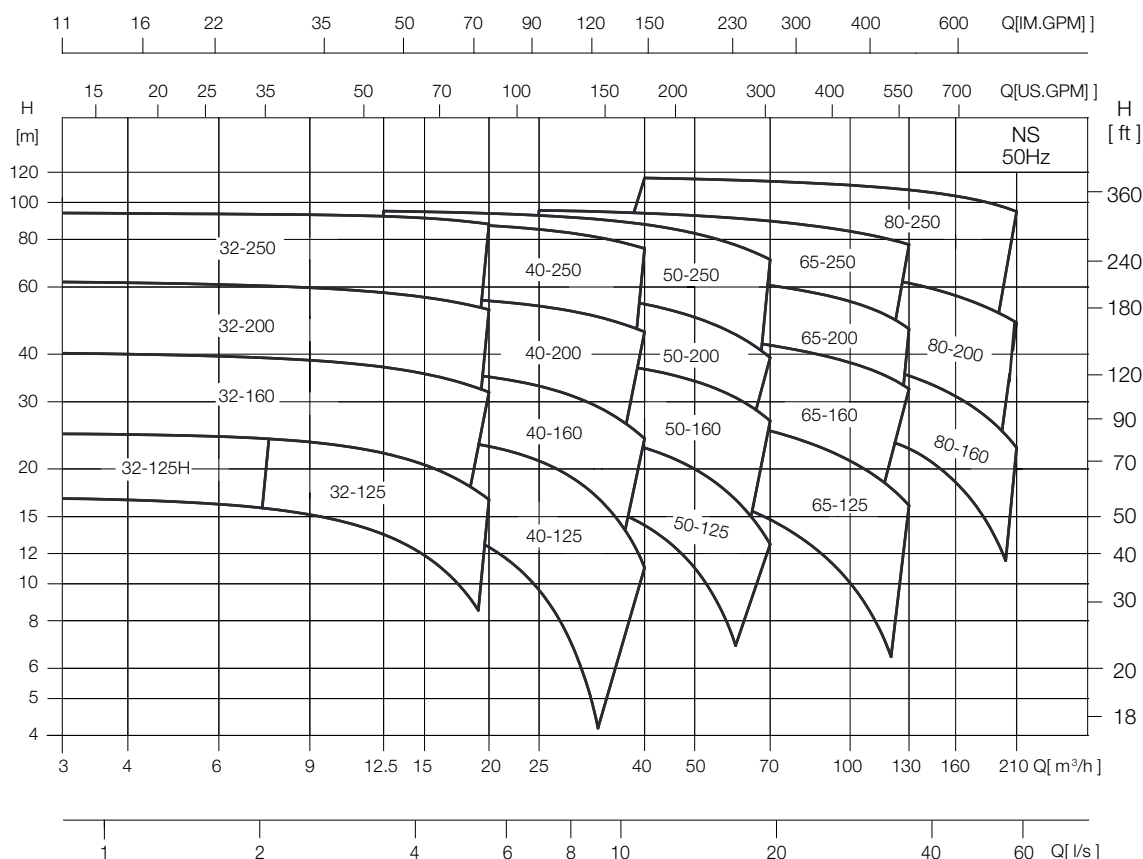
Ambient Temperature: Up to +40°C

Definition of model

NSX 65-200H 22



Performance scope



Features

- The pump is single stage, single suction structure with horizontal axial suction and radial 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 $MEI \geq 0.7$.
- 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.

Curves

Following conditions are suitable for the performance curves shown below:

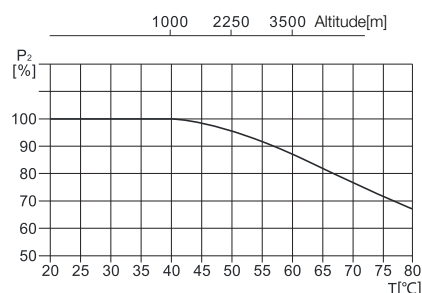
1. Curve tolerance is in conformity with ISO9906 Annex A.
2. All curves are based on the measured value of motor 3x380V, 50Hz: under the constant speed of 2900rpm or 2950rpm.
3. The test medium is clear 20°C water without any solid impurity.
4. Pumps should not work if the flow is beyond the minimum or the maximum flow in the curves.
5. The motor power shall be adjusted if the viscosity or density of medium is different from water.

Motor

- TEFC motor, IEC standard motor.
- Protection class: IP55.
- Insulation class: F.
- Standard voltage: 50Hz
3 x 380V.

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.



Minimum inlet pressure NPSH

In case that the pressure in pump lower than the steam pressure used to convey liquid, the cavitations will occur. To avoid cavitations, a minimum pressure at the inlet side of the pump shall be guaranteed.

The maximum suction stroke can be calculated with following formula:

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

P_b -Atmosphere pressure (bar)

In a closed system, P_b means system pressure (bar).

NPSH-Net positive suction head (m)

It can be read from the point of Max. flow rate shown on NPSH curve.

H_f -Pipeline loss at the inlet (m)

It is in accordance with pipeline possible Max. Flow.

H_v -Steam pressure (m)

It depends on liquid temperature and steam pressure value.

H_s -Safety margin (m)

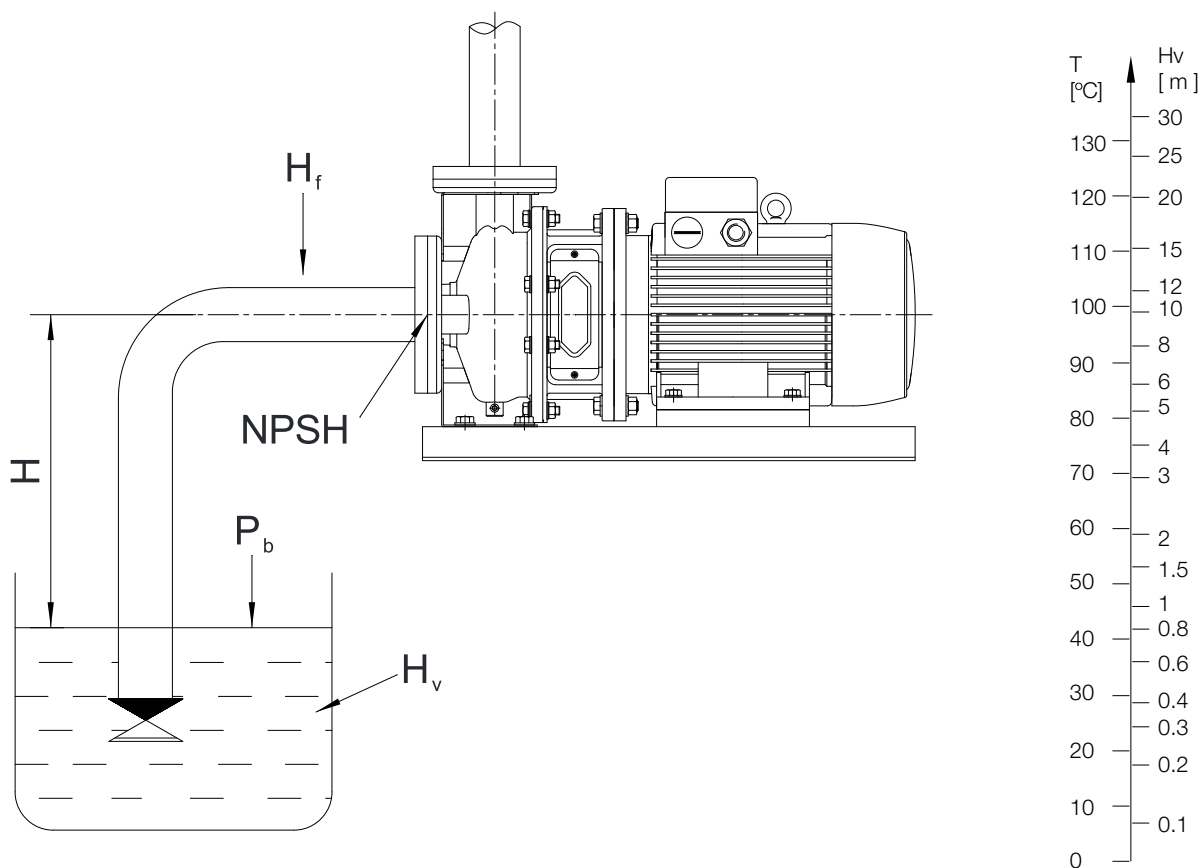
Minimum 0.5 delivery head

If the calculated result H is positive, the pump may run under the Max.

Suction head H . In case the calculated H is negative, a delivery head of Min. Inlet pressure is necessary.

Note: Normally, the above calculation will not be done. H is calculated in the following conditions:

1. The liquid temperature is comparatively higher.
2. Liquid flow exceeds rated value.
3. Suction head is comparatively large or inlet pipeline long.
4. System pressure is too low.
5. Bad inlet condition.



Installation requirements

The shaft of NS pump is connected to the motor directly. The pump is composed of pump, shaft and standard motor.

– The pump shall 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.

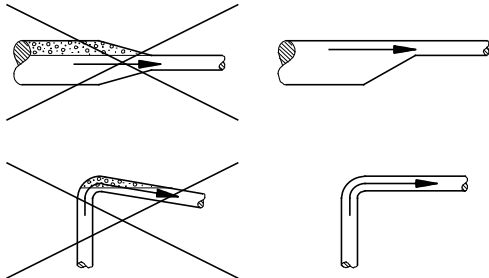
– To facilitate inspection and maintenance, sufficient space should be left around the unit. A minimum of 300mm clearance should be left when the motor is $<5.5kW$, and a minimum of 1000mm when the motor is $\geq 5.5kW$.

– The electrical wiring must ensure that the pump is not damaged by phase loss, voltage instability, leakage or overload.

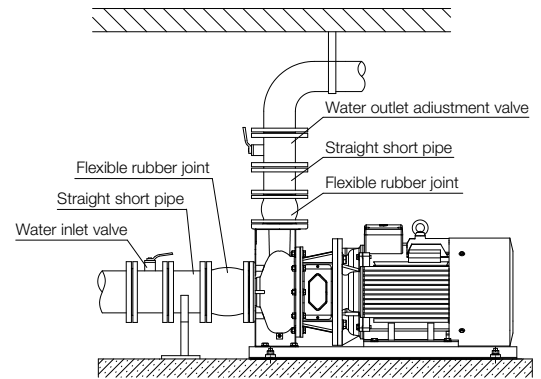
– The pump should be horizontally installed on the base, with the suction inlet on the horizontal axis and the discharge outlet on the vertical axis.

Pipeline Installation Conditions

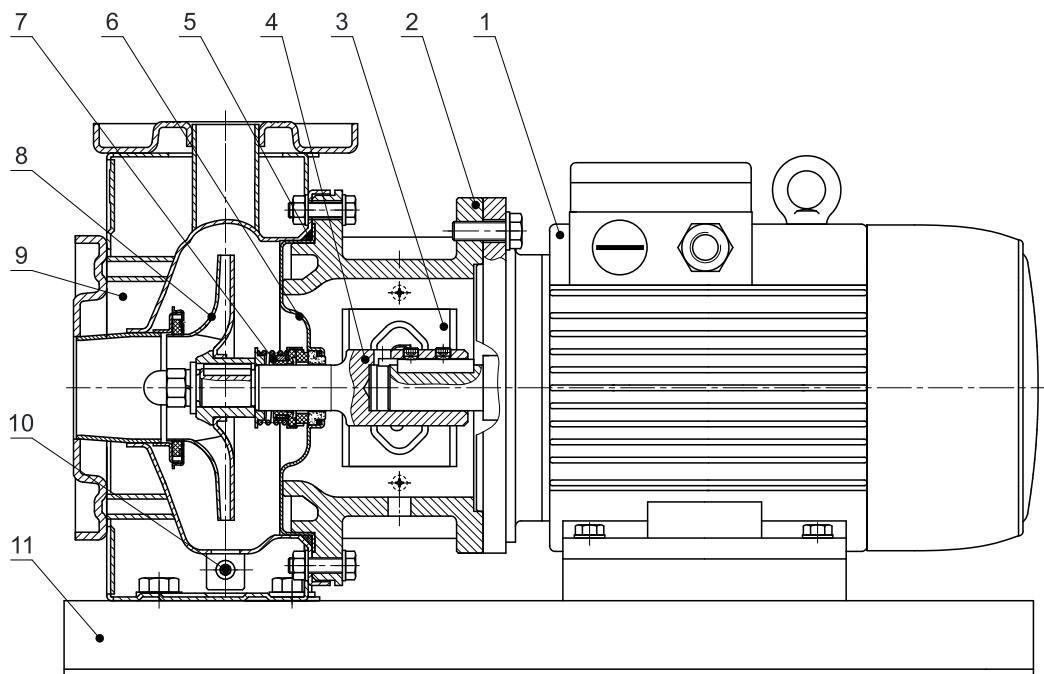
– Pump casing must not be subjected to pipe pressure when installing the pipe.
 – The suction and drain pipes must be sized appropriately and the inlet pressure of the pump needs to be considered.
 – Install the pipe to avoid air blockage, especially on the inlet side of the pump. See picture below.



– 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.



Sectional drawing



Material

N°	Parts	Material	AISI/ASTM
1	Motor		
2	Pump head	Cast iron	ASTM25B
3	Guard plate	Stainless steel	AISI304
4	Shaft	Stainless steel	AISI420/AISI304
5	O ring	EPDM/FPM	
6	Lining of pump head	Stainless steel	AISI304
7	Mechanical seal	Carbon/Silicon Carbide	
8	Impeller	Stainless steel	AISI304
9	Casing	Stainless steel	AISI304
10	Drain plug	Stainless steel	AISI304
11	Base plate	Q235	ASTMA570

公司简介

HYDROO建立了一个全球性的销售服务网络，为各类泵工程和水泵终端用户提供专业可靠的产品和服务。HYDROO拥有完善的产品系列，在包括供水、增压、消防、地下水抽取、暖通、排水、污水、市政、灌溉、海水淡化和反渗透等诸多领域，为客户提供各类高端泵产品和泵解决方案。HYDROO的产品满足市场上50Hz/60Hz不同需求，并为客户提供个性化定制服务。

HYDROO位于西班牙巴塞罗那的生产、研发总部和位于中国杭州的工厂，是我们为客户提供长期可靠、专业的个性化定制服务的有力保障。得益于我们精益化的生产流程和专业高效的运营团队，HYDROO保证在极短的时间内将产品交付到客户手上。

在一份由全体员工参与的公开文件中，我们列明了对第三方道德与立法的承诺，并有相应的监督委员会监督并确保其执行。

营之有道，良好的客户关系，高效专业的服务，为客户创造最大价值的同时，推动着HYDROO在全球市场的快速发展。

HYDROO的宗旨是始终致力于为全球范围内的合作伙伴提供高端泵产品和泵解决方案，为客户创造更大的价值。

NSX, NSN

不锈钢单级端吸泵

应用

清洗系统
酿酒、食品系统
抽吸轻度腐蚀介质
空调、暖通系统
加热系统
工业增压
水处理

产品描述

NS系列为参照欧洲标准最新自主研发的新一代、高效率非自吸卧式单级离心泵，产品采用全新的不锈钢冲压胀型工艺。

具有节能、低噪、环保及结构紧凑、外形美观、重量轻、使用维护方便、可靠性高等特点。

性能范围

流量: 最大210 m³/h

扬程: 最高104 m

温度: -20 °C ~ +100 °C

压力: 10 bar; NS80-250: 12bar

功率: 最大75 kW

口径: 吸入 DN50~DN100

排出 DN32~DN80

运行条件

— 稀薄、干净、非易燃易爆并不含固体颗粒、纤维或物理化学性质类似于水的液体

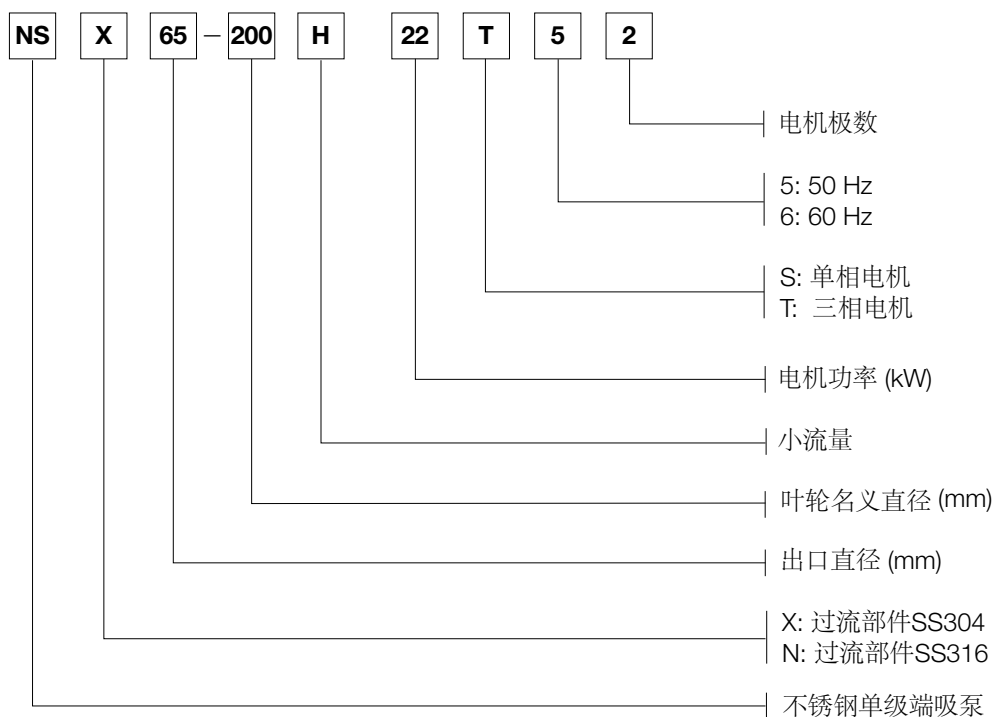
— 环境温度: 最高+40 °C

— 海拔: 最高1000米

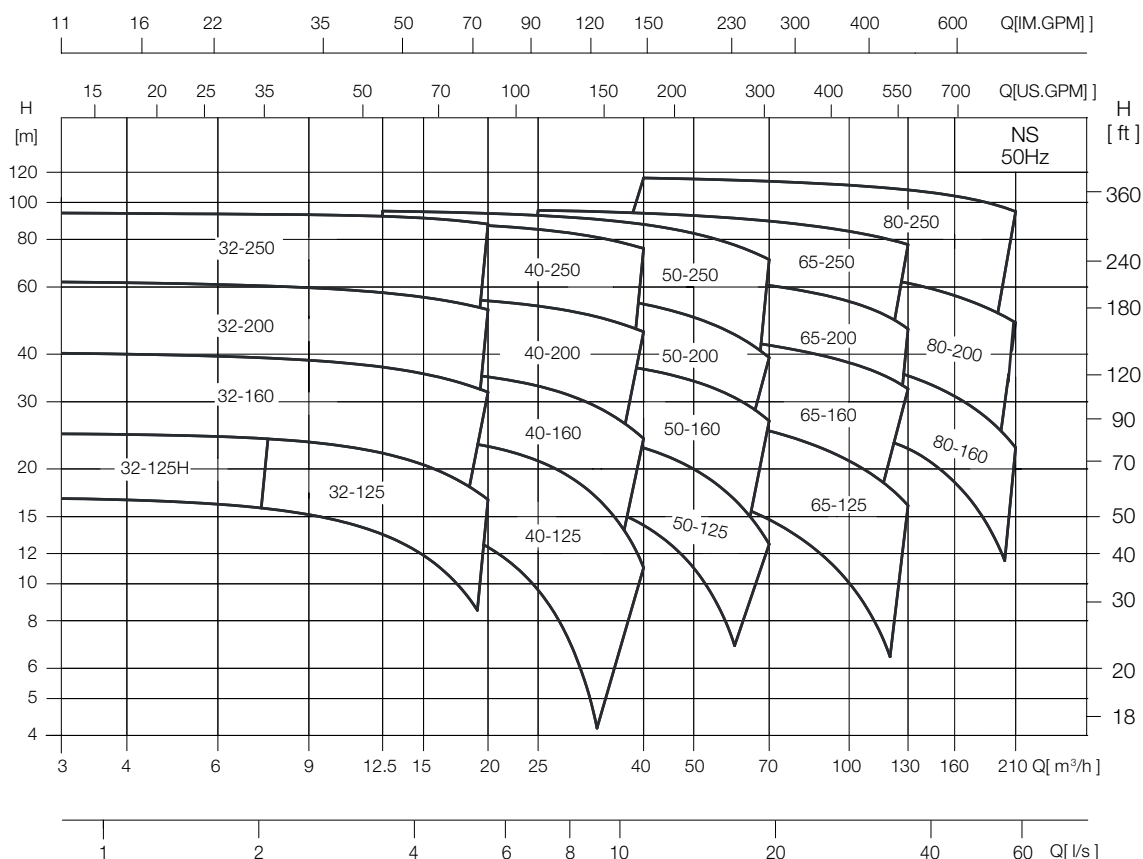


型号含义

NSX 65-200H 22T 5 2



性能范围



特点

- NS 不锈钢卧式单级端吸泵具有以下特点：
- 泵为卧式单级单吸结构，轴向进水，径向出水；
 - 泵外形安装尺寸符合EN733标准；
 - 采用经过CFD优化的水力模型，水力效率高，泵最低能效指标MEI $\geq$ 0.7；
 - 运行平稳、噪音低；
 - 流量使用范围宽；
 - 泵进出口法兰符合GB/T 9124.1(ISO 7005-1)压力等级PN10；
 - 叶轮采用浮动式口环，容积效率高。

性能曲线

下述原则适用于本样本所有的性能曲线：

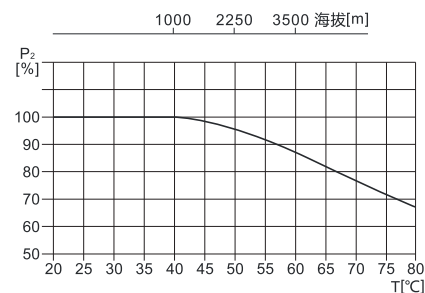
1. 曲线容差符合 ISO9906 Annex A。
2. 所有曲线适用于50Hz，额定转速为2900rpm 或 2950rpm。
3. 测试用水为 20°C，无空气及杂质的清水，运动粘度 1mm²/s。
4. 为防止因流量过小引起过热或流量过大引起过载，请在推荐的流量范围内运行。
5. 如果泵送的介质粘度或密度不同于水，需根据实际情况对电机功率进行调整。

电机

- 全封闭，风冷式，IEC标准电机
- 防护等级：IP55
- 绝缘等级：F
- 标准电压：50Hz 3 × 380V

最大环境温度、海拔

当泵在环境温度大于40或海拔大于1000m下运行时，由于空气密度低、冷却效果差，电机输出功率P会有一定降低，泵在上述情况下运行时电机功率需加大。



最小进口压力
NPSH

如果水泵内压力低于输送介质的汽化压力，就可能发生汽蚀，为避免汽蚀，必须保证泵进口侧有一最小压力，最大吸程可按下式计算：

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

P_b = 大气压力 [bar]
(大气压力可设定为1bar)

在闭式系统中， P_b 为系统压力 [bar]

NPSH = 净正吸头 [m]
(可从NPSH曲线上泵可能的最大流量处读取)

H_f = 入口的管路损失 [m]
(在泵将输送的最大流量下)

H_v = 汽化压力 [m]
(汽化压力由液体温度决定，可从下方附图中汽化压力尺中读取)

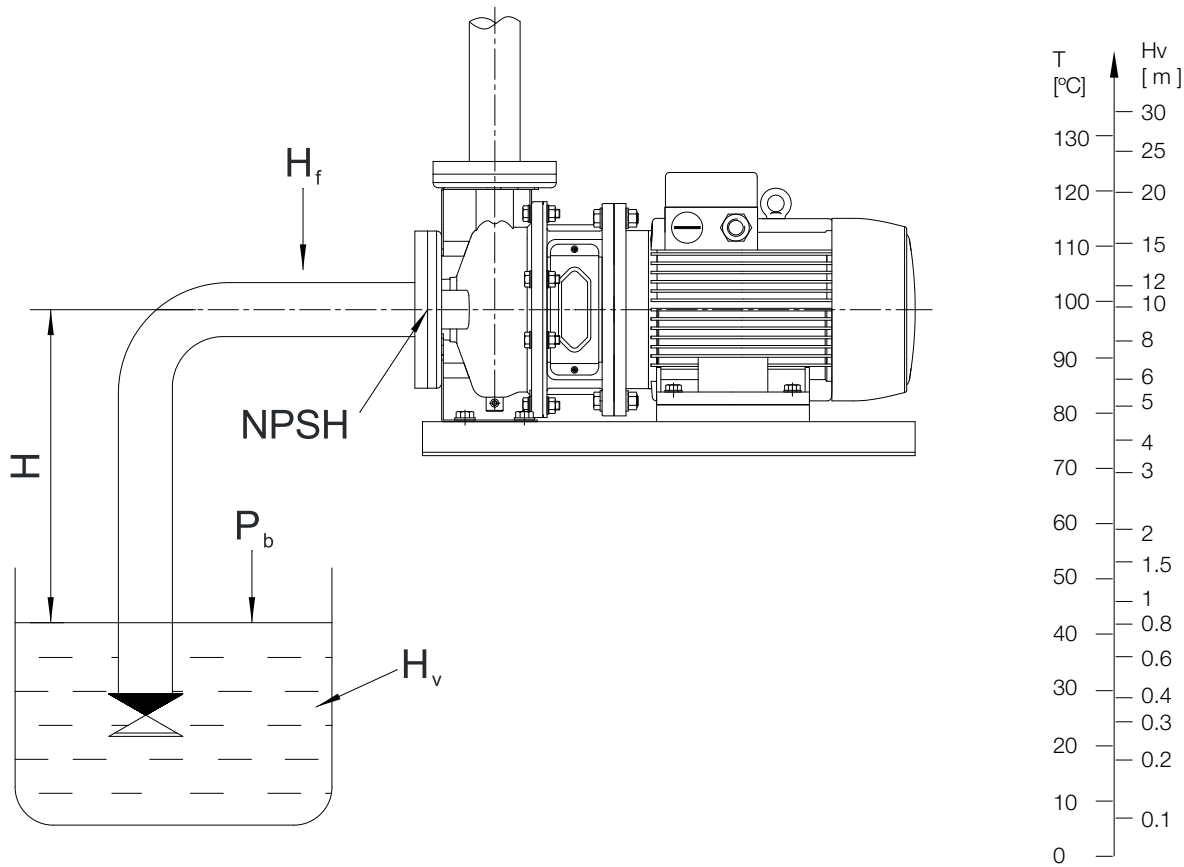
H_s = 安全余量 = 最小 0.5m 水头

如计算所得 H 为正值，泵可在最大吸程为 H 的情况下运行。

如计算所得 H 为负值，必须有一最小进口压力为 H 的水头。

注：一般情况下不进行以上计算。只有在下列情况下使用泵时才对 H 进行计算：

- 1. 液体温度较高
- 2. 液体流速超过了额定值
- 3. 吸程较大或进口管路较长
- 4. 系统压力太小
- 5. 进口条件较差



安装要求

NS 泵为泵轴、电机直联式，主要由泵体、泵轴和标准电机组成。

– 泵应安装在通风且防冰冻的地方；

– 泵的安装要保证在使用时泵不受系统管路的张力影响；

– 如果泵安装在户外，必须配置合适的外罩以防止电器元件进水或凝露。

– 为了方便于检查和维修，在机组的周围应留有足够的空间，泵配套电机 $< 5.5kW$ 时最小留 300mm；泵配套电机 $\geq 5.5kW$ 时最小留 1000mm；

– 泵应水平安装在基座上，水平方向为泵的吸入口，垂直方向为泵的排出口。

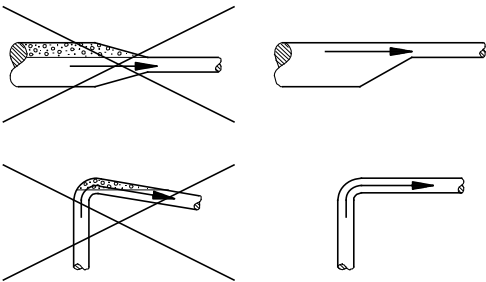
– 电机接线装置应保证泵不受缺相、电压不稳、漏电或过载等损害。

管道安装条件

安装管道时，必须确保泵体不承受管道应力。

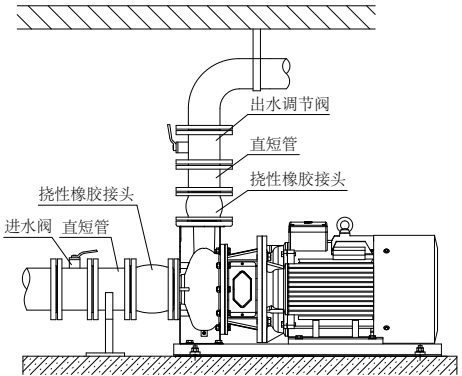
吸水管和排水管的尺寸必须恰当，同时需要考虑到泵的入口压力。

安装管道，避免产生气阻，特别是泵的入口侧。见下图

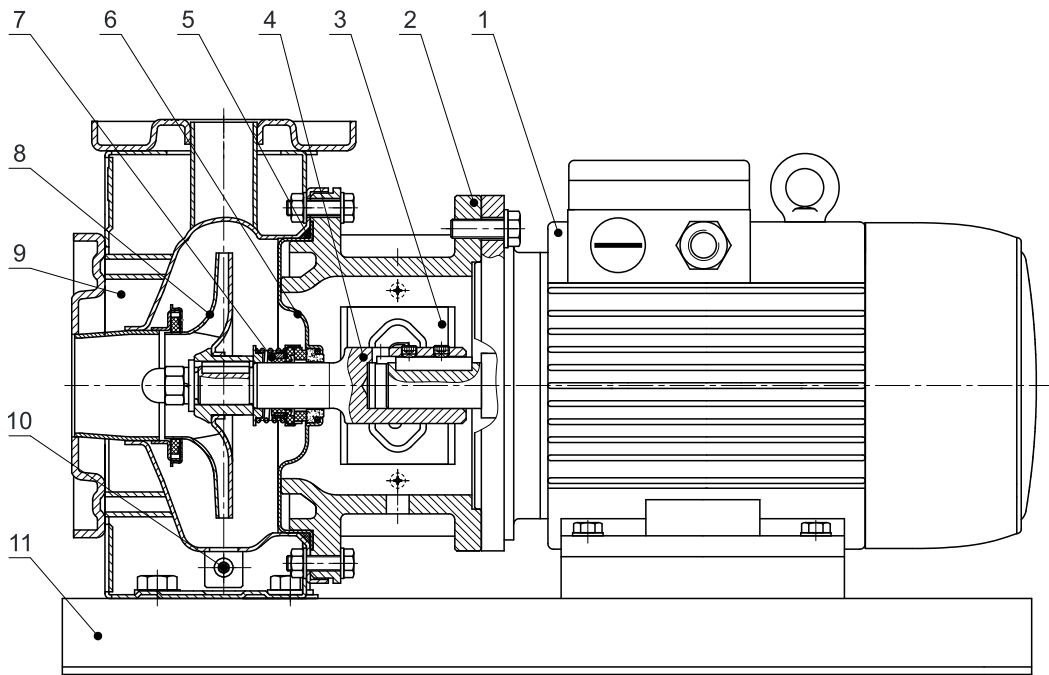


在泵的进出口管道上分别安装一个隔离阀，以便在需要对泵进行清洁或维修时无须将系统排干。

确保在尽可能接近泵的地方为管道提供足够的支撑(入口侧和出口侧)，对接法兰应该与泵的法兰紧贴而又不受到牵拉应力，牵拉应力的存在会损坏泵。



结构图

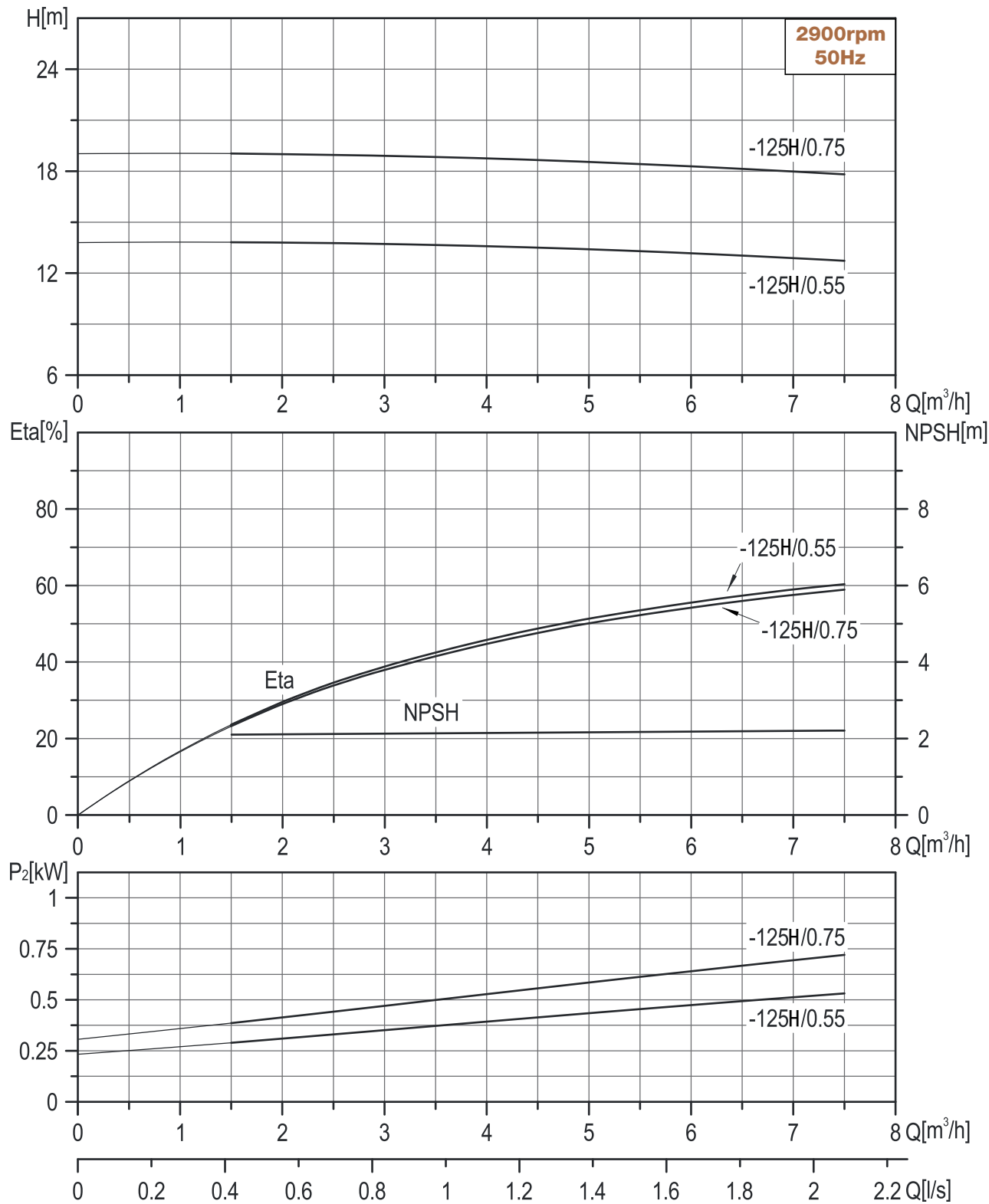


材质

序号	零件名称	零件材质	AISI/ASTM
1	电机		
2	泵头	铸铁	ASTM25B
3	防护板	不锈钢	AISI304
4	泵轴	不锈钢	AISI420/AISI304
5	O形圈	EPDM/FPM	
6	泵头密封座	不锈钢	AISI304
7	机械密封	石墨/碳化硅	
8	叶轮	不锈钢	AISI304
9	泵体	不锈钢	AISI304
10	放水螺塞	不锈钢	AISI304
10	底座	Q235	ASTMA570

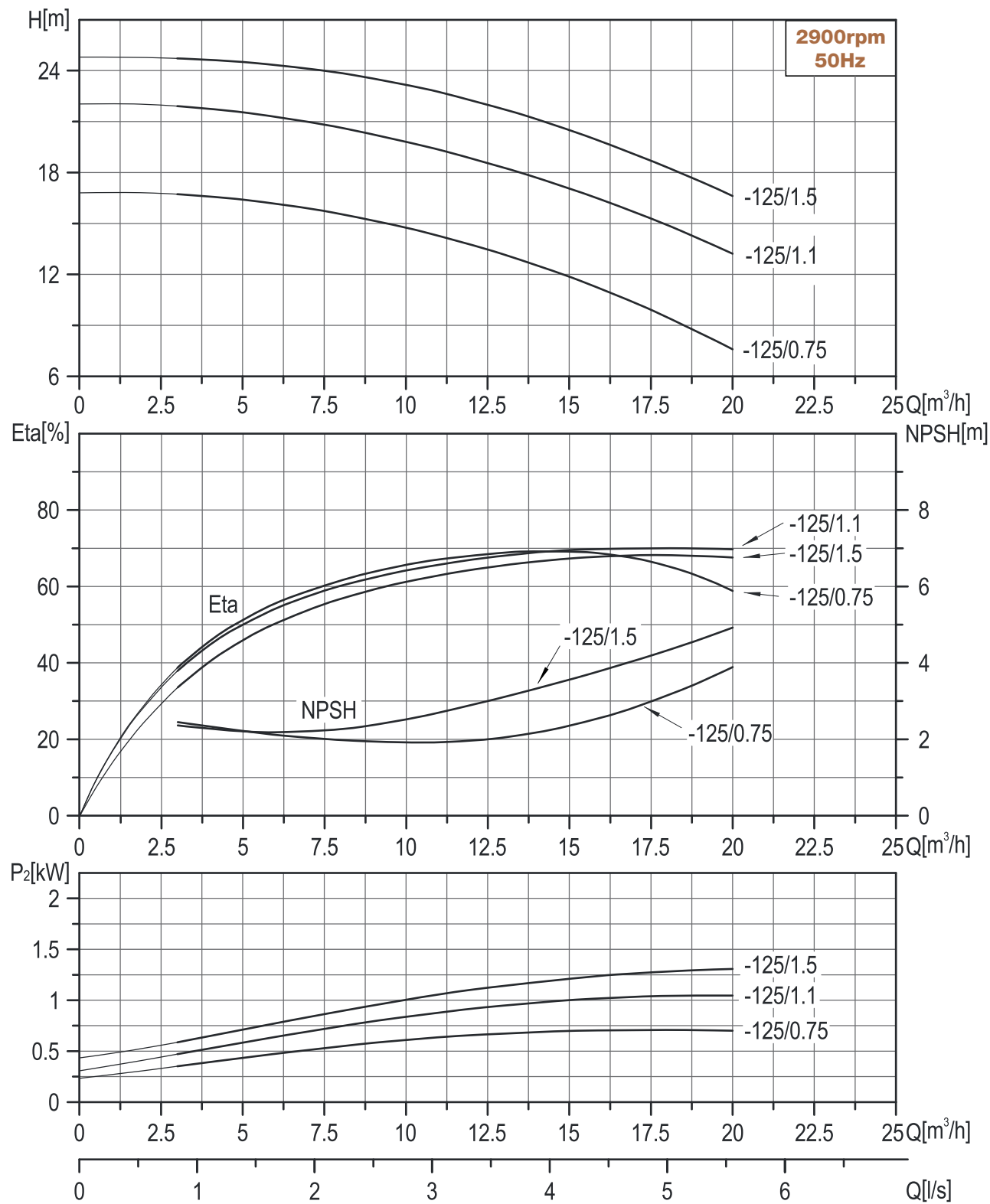
Product range 产品参数

N° 序号	Model 型号	Q (m³/h)	H (m)	η (%)	NPSH (m)	n (r/min)	P2 (kW)	Max.Pres- sure 最大压力[bar]	Flow range 流量范围[m³/h]	Inlet 入口	Outlet 出口
1	NS32-125H 0.55	6.3	16	56.5	2	2900	0.55	10	1.5~7.5	DN50	DN32
2	NS32-125H 0.75	6.3	21	55.5	2.3	2900	0.75	10	1.5~7.5	DN50	DN32
3	NS32-125 0.75	12.5	13.5	69	2	2900	0.75	10	3~20	DN50	DN32
4	NS32-125 1.1	12.5	18.5	68	2.5	2900	1.1	10	3~20	DN50	DN32
5	NS32-125 1.5	12.5	22	65	3	2900	1.5	10	3~20	DN50	DN32
6	NS32-160 2.2	12.5	30	62.5	2.3	2900	2.2	10	3~20	DN50	DN32
7	NS32-160 3	12.5	37	60	2.3	2900	3	10	3~20	DN50	DN32
8	NS32-200 4	12.5	49	55	2.2	2900	4	10	3~20	DN50	DN32
9	NS32-200 5.5	12.5	58	50	2.2	2900	5.5	10	3~20	DN50	DN32
10	NS32-250 7.5	12.5	77	46	2.5	2950	7.5	10	3~20	DN50	DN32
11	NS32-250 9.2	12.5	85	44.5	2.5	2950	9.2	10	3~20	DN50	DN32
12	NS32-250 11	12.5	92	43	2.5	2950	11	10	3~20	DN50	DN32
13	NS40-125 1.1	25	9	63	2.8	2900	1.1	10	6~32.5	DN65	DN40
14	NS40-125 1.5	25	14	68.5	2.8	2900	1.5	10	6~35	DN65	DN40
15	NS40-125 2.2	25	21	76	2.8	2900	2.2	10	6~40	DN65	DN40
16	NS40-160 3	25	27	72	2.6	2900	3	10	6~40	DN65	DN40
17	NS40-160 4	25	33	71	2.6	2900	4	10	6~40	DN65	DN40
18	NS40-200 5.5	25	41	66	2.3	2900	5.5	10	6~40	DN65	DN40
19	NS40-200 7.5	25	53.5	66	2.3	2950	7.5	10	6~40	DN65	DN40
20	NS40-250 9.2	25	61	58.5	2.5	2950	9.2	10	6~40	DN65	DN40
21	NS40-250 11	25	70	57	2.7	2950	11	10	6~40	DN65	DN40
22	NS40-250 15	25	85	57	2.7	2950	15	10	6~40	DN65	DN40
23	NS50-125 2.2	50	11	70	3.6	2900	2.2	10	12.5~65	DN65	DN50
24	NS50-125 3	50	14.5	72	3.4	2900	3	10	12.5~70	DN65	DN50
25	NS50-125 4	50	20	76.5	3.3	2900	4	10	12.5~70	DN65	DN50
26	NS50-160 5.5	50	27	77	3.5	2900	5.5	10	12.5~70	DN65	DN50
27	NS50-160 7.5	50	34	75	3.1	2950	7.5	10	12.5~70	DN65	DN50
28	NS50-200 9.2	50	43	73	3.8	2950	9.2	10	12.5~70	DN65	DN50
29	NS50-200 11	50	50	73	3.8	2950	11	10	12.5~70	DN65	DN50
30	NS50-250 15	50	61.5	67	3.3	2950	15	10	12.5~70	DN65	DN50
31	NS50-250 18.5	50	72.5	64	3.3	2950	18.5	10	12.5~70	DN65	DN50
32	NS50-250 22	50	83	65	3.3	2950	22	10	12.5~70	DN65	DN50
33	NS65-125 4	100	10	73	6.1	2900	4	10	25~125	DN80	DN65
34	NS65-125 5.5	100	15	79	5.1	2900	5.5	10	25~130	DN80	DN65
35	NS65-125 7.5	100	21	85.5	4.1	2950	7.5	10	25~130	DN80	DN65
36	NS65-160 11	100	29.5	84	4.3	2950	11	10	25~130	DN80	DN65
37	NS65-160 15	100	38	84.5	3.9	2950	15	10	25~130	DN80	DN65
38	NS65-200 18.5	100	48	81	4.5	2950	18.5	10	25~130	DN80	DN65
39	NS65-200 22	100	55	81	4.5	2950	22	10	25~130	DN80	DN65
40	NS65-250 30	100	73	77.5	4.6	2950	30	10	25~130	DN80	DN65
41	NS65-250 37	100	84	78	4.8	2950	37	10	25~130	DN80	DN65
42	NS80-160 11	160	18.5	76.5	4.5	2950	11	10	40~200	DN100	DN80
43	NS80-160 15	160	26	80	4.2	2950	15	10	40~210	DN100	DN80
44	NS80-160 18.5	160	31	80.5	3.9	2950	18.5	10	40~210	DN100	DN80
45	NS80-200 22	160	36	82	3.9	2950	22	10	40~210	DN100	DN80
46	NS80-200 30	160	48.5	84	3.9	2950	30	10	40~210	DN100	DN80
47	NS80-200 37	160	57	84	3.9	2950	37	10	40~210	DN100	DN80
48	NS80-250 45	160	70	81	3.9	2950	45	12	40~210	DN100	DN80
49	NS80-250 55	160	86	83	3.9	2950	55	12	40~210	DN100	DN80
50	NS80-250 75	160	104	80	3.9	2950	75	12	40~210	DN100	DN80



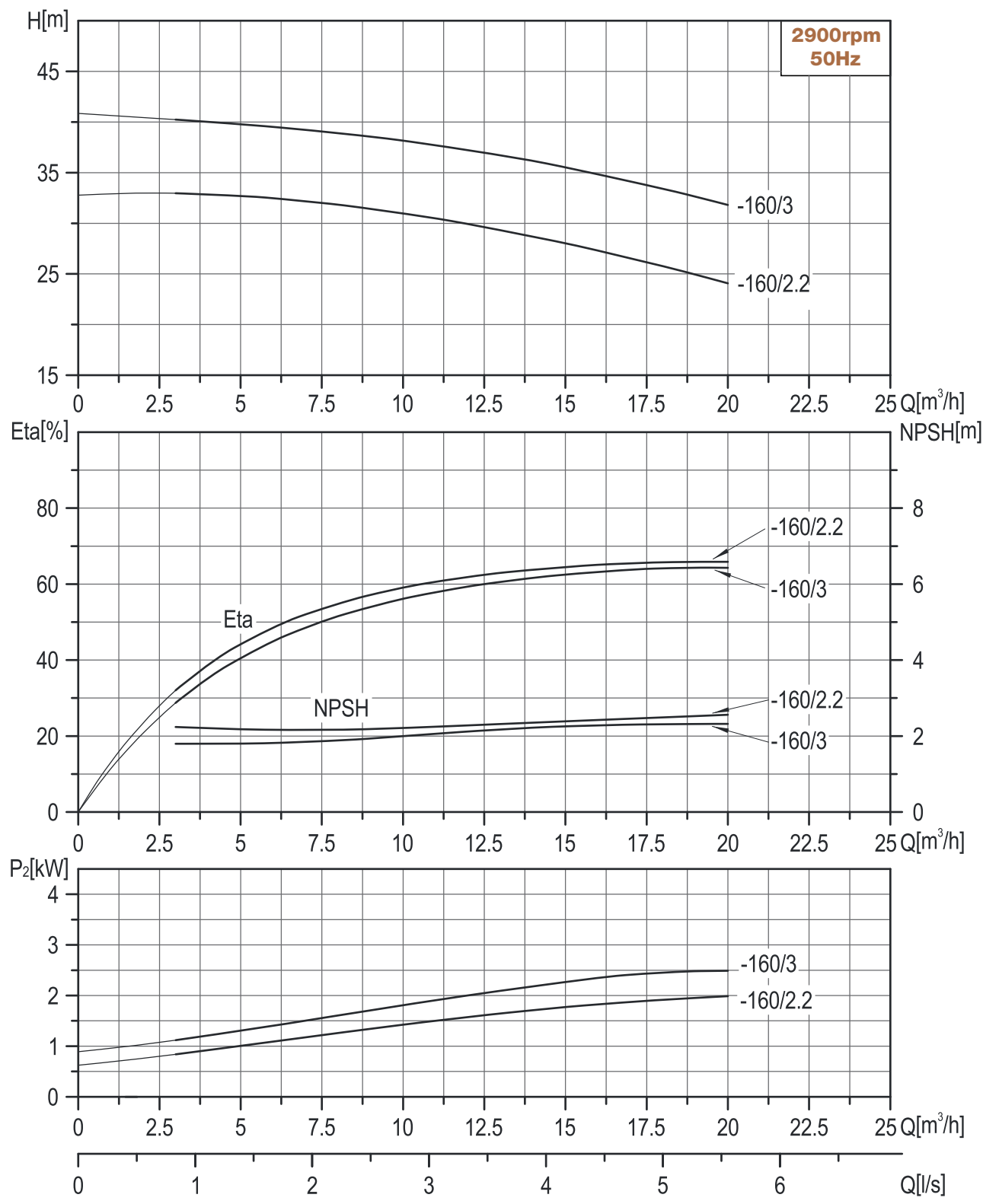
Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	1.5	2	3	4	5	6.3	7	7.5
	(kW)	(hp)									
NS32-125H 0.55	0.55	0.75	H (m)	16.7	16.7	16.6	16.5	16.3	16	15.8	15.7
NS32-125H 0.75	0.75	1		21.8	21.8	21.7	21.5	21.3	21.0	20.8	20.4



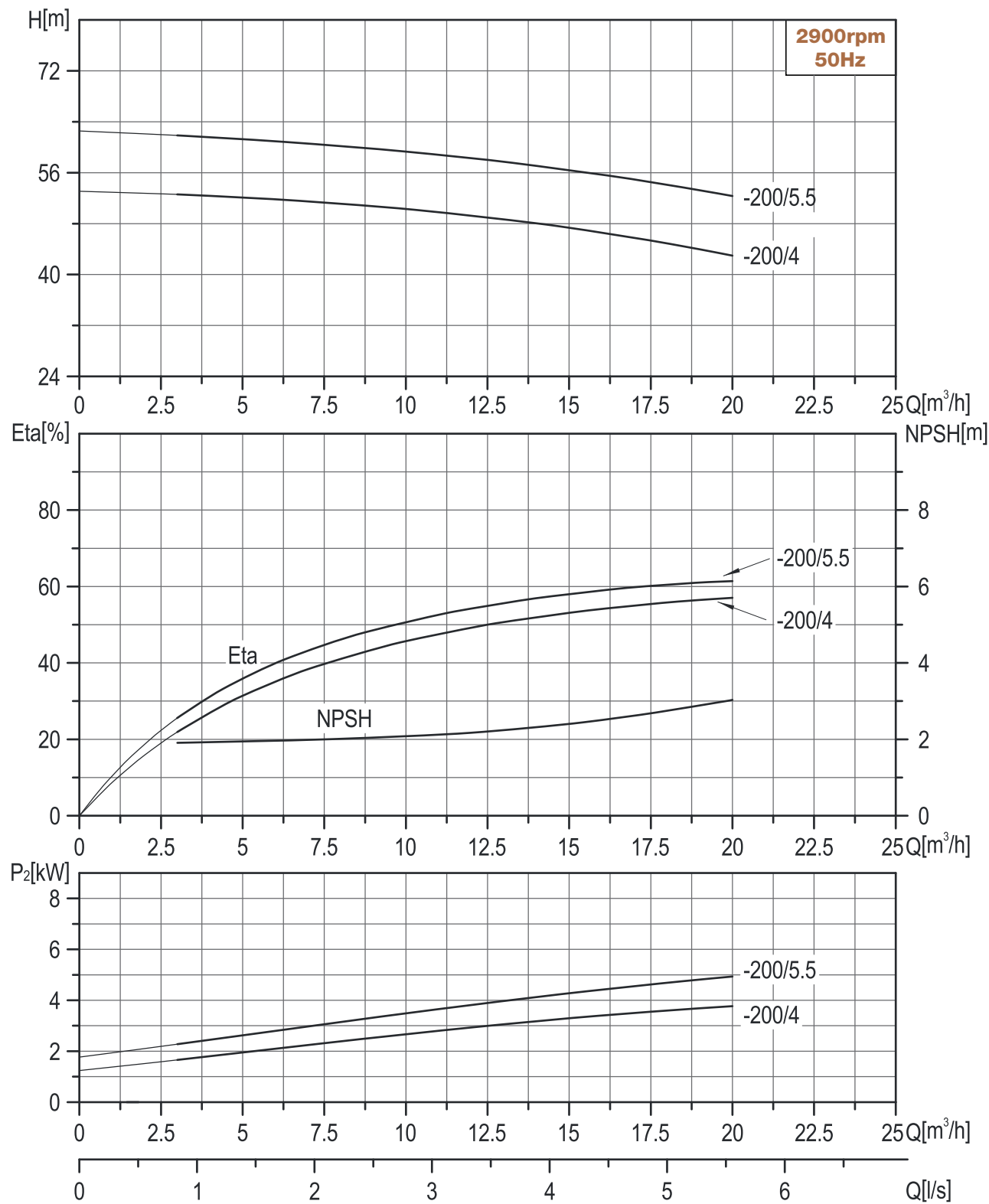
Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	3	5	7.5	10	12.5	15	17.5	20
	(kW)	(hp)									
NS32-125 0.75	0.75	1	H (m)	16.7	16.4	15.7	14.8	13.5	11.9	9.9	7.6
NS32-125 1.1	1.1	1.5		21.9	21.5	20.8	19.8	18.5	17.1	15.3	13.2
NS32-125 1.5	1.5	2		24.7	24.5	24.0	23.2	22.0	20.5	18.7	16.6



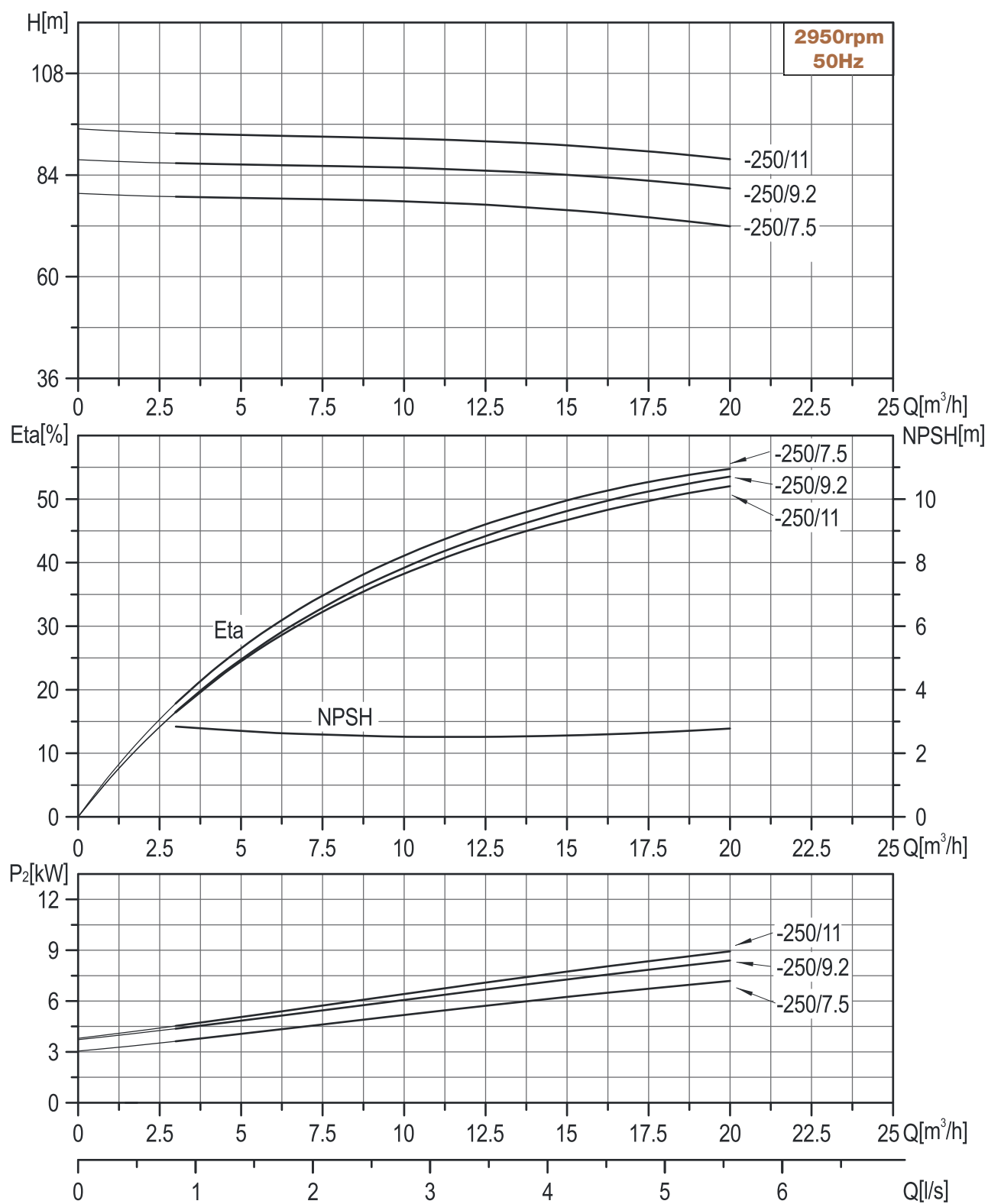
Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	3	5	7.5	10	12.5	15	17.5	20
	(kW)	(hp)									
NS32-160 2.2	2.2	3	H (m)	33.0	32.7	32.0	31.0	30.0	28.0	26.2	24.1
NS32-160 3	3	4		40.2	39.8	39.1	38.2	37.0	35.5	33.8	31.8



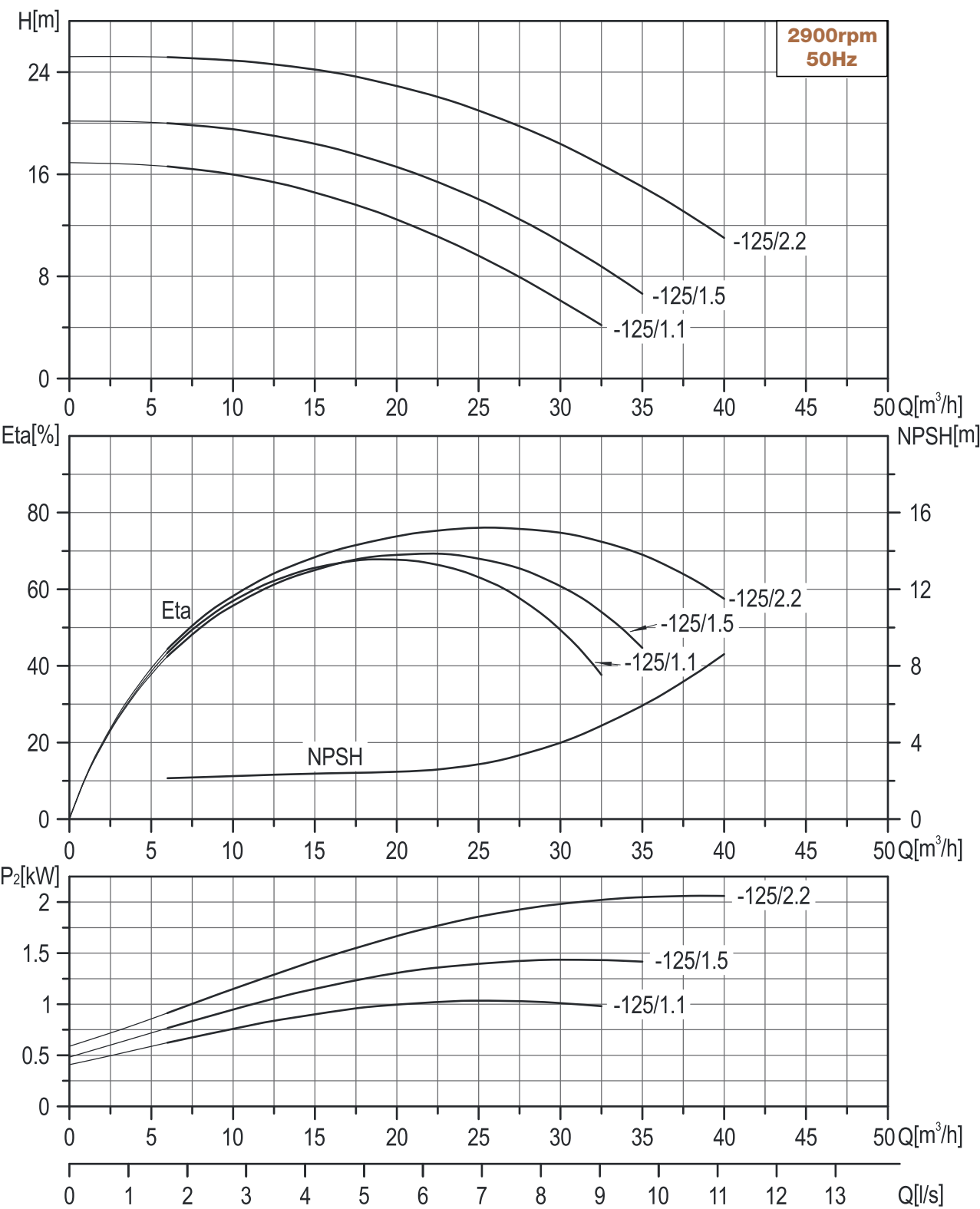
Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	3	5	7.5	10	12.5	15	17.5	20
	(kW)	(hp)									
NS32-200 4	4	5.5	H (m)	52.6	52.1	51.3	50.3	49.0	47.4	45.4	43.0
NS32-200 5.5	5.5	7.5		61.9	61.3	60.4	59.3	58.0	56.4	54.5	52.3



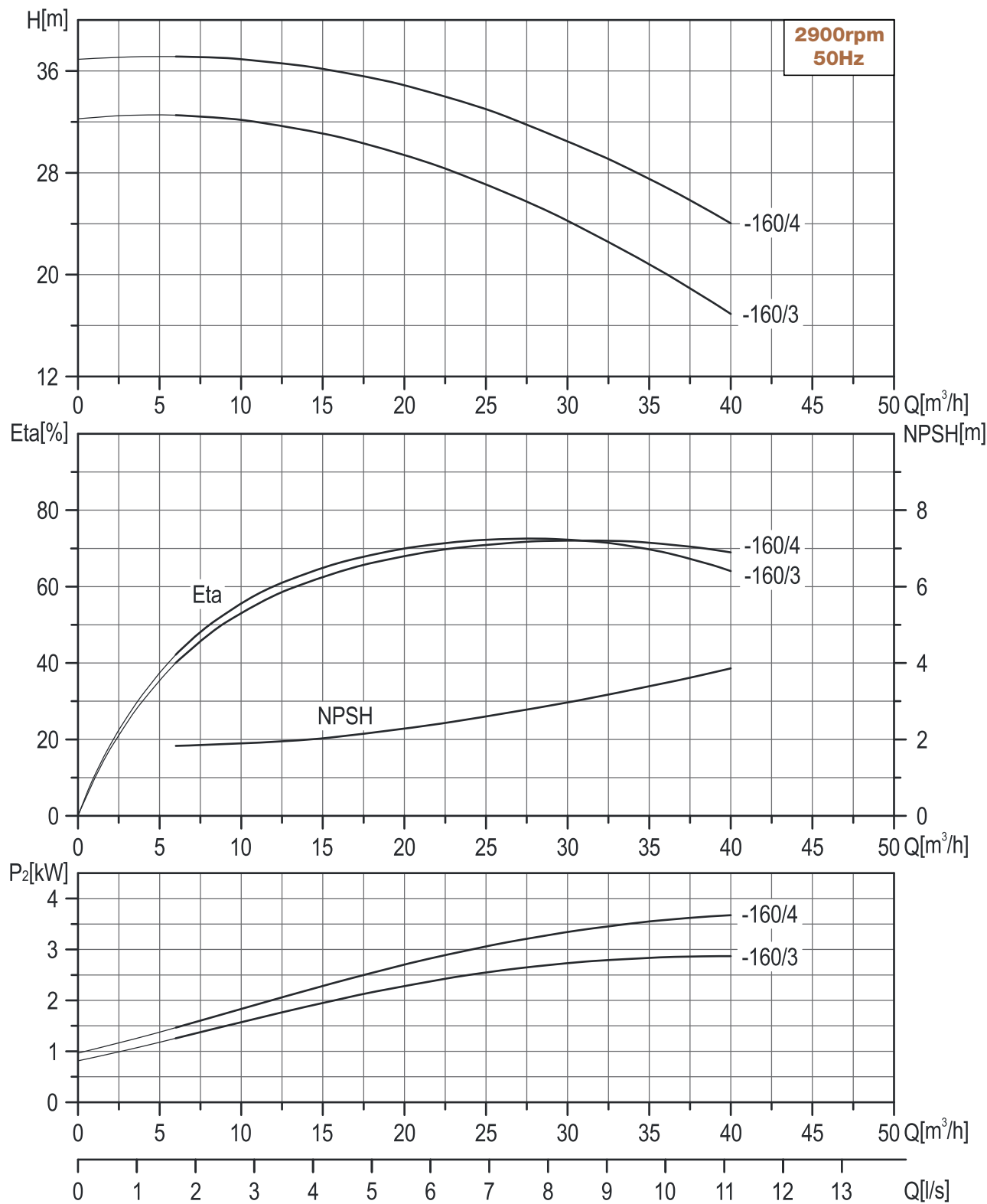
Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	3	5	7.5	10	12.5	15	17.5	20
	(kW)	(hp)									
NS32-250 7.5	7.5	10	H (m)	78.9	78.6	78.3	77.8	77.0	75.8	74.1	71.9
NS32-250 9.2	9.2	12		88.3	87.7	86.8	86.0	85.0	83.9	82.5	80.9
NS32-250 11	11	15		93.8	93.4	93.1	92.6	92.0	91.0	89.6	87.7



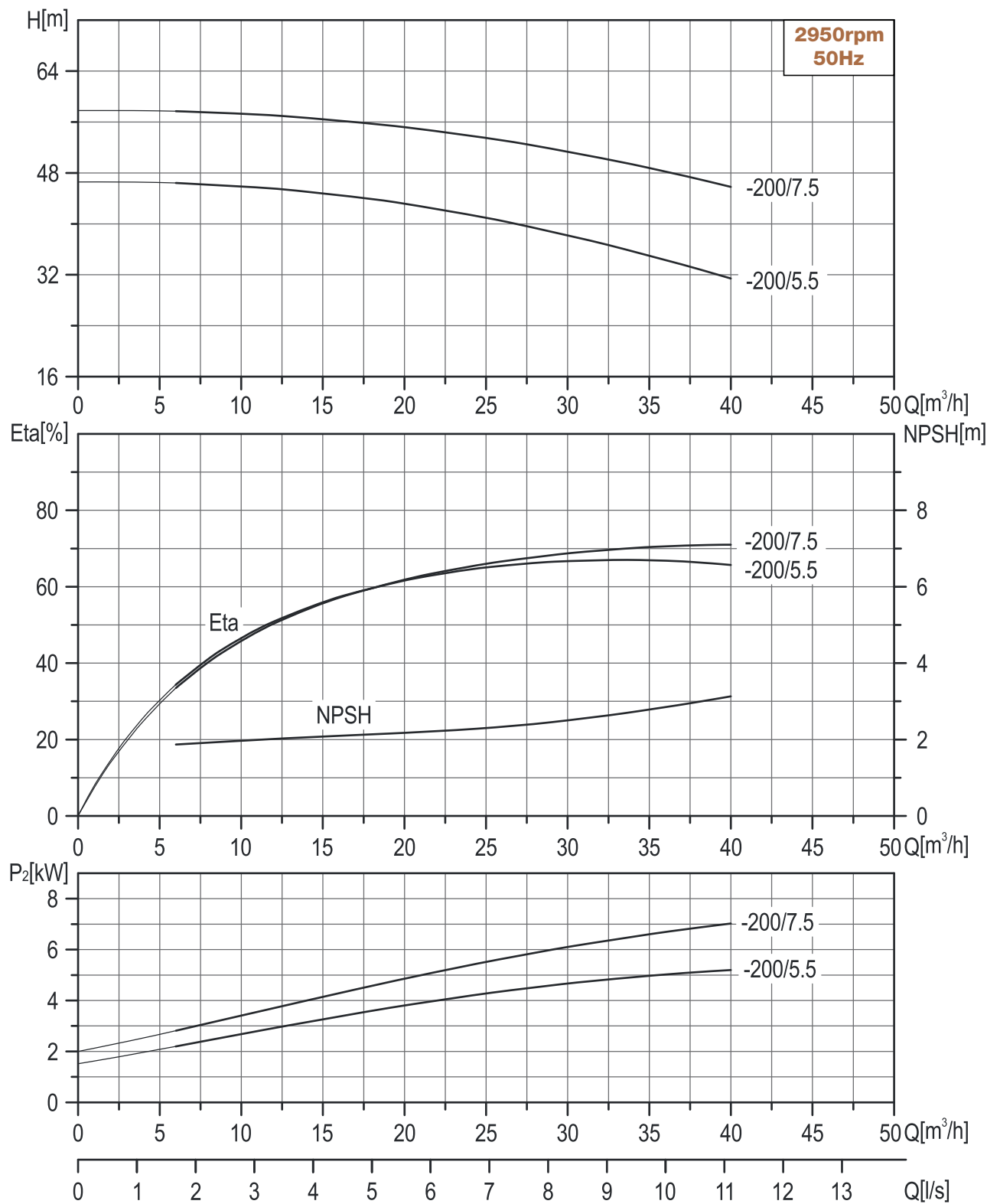
Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	6	10	15	20	25	30	32.5	35	40
	(kW)	(hp)										
NS40-125 1.1	1.1	1.5	H (m)	15.8	15.2	13.9	11.8	9.0	5.8	4.2		
NS40-125 1.5	1.5	2		20.0	19.5	18.4	16.6	14.0	10.7	8.8	6.6	
NS40-125 2.2	2.2	3		25.2	24.9	24.2	22.9	21.0	18.4	16.8	15.0	11.0



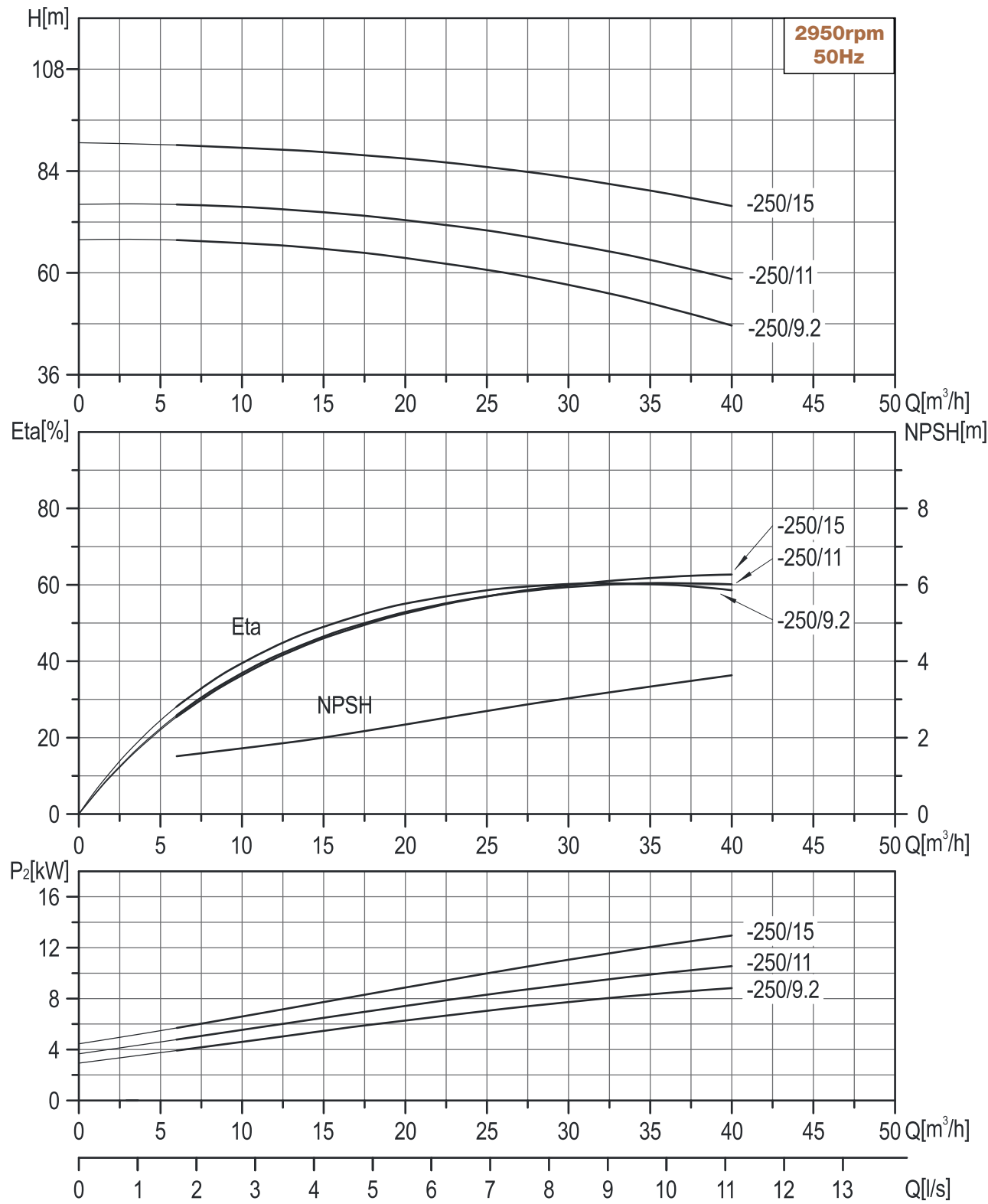
Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	6	10	15	20	25	30	35	40
	(kW)	(hp)									
NS40-160 3	3	4	H (m)	32.5	32.2	31.1	29.4	27.0	24.2	20.8	16.9
NS40-160 4	4	5.5		37.1	36.9	36.2	34.9	33.0	30.5	27.5	24.0



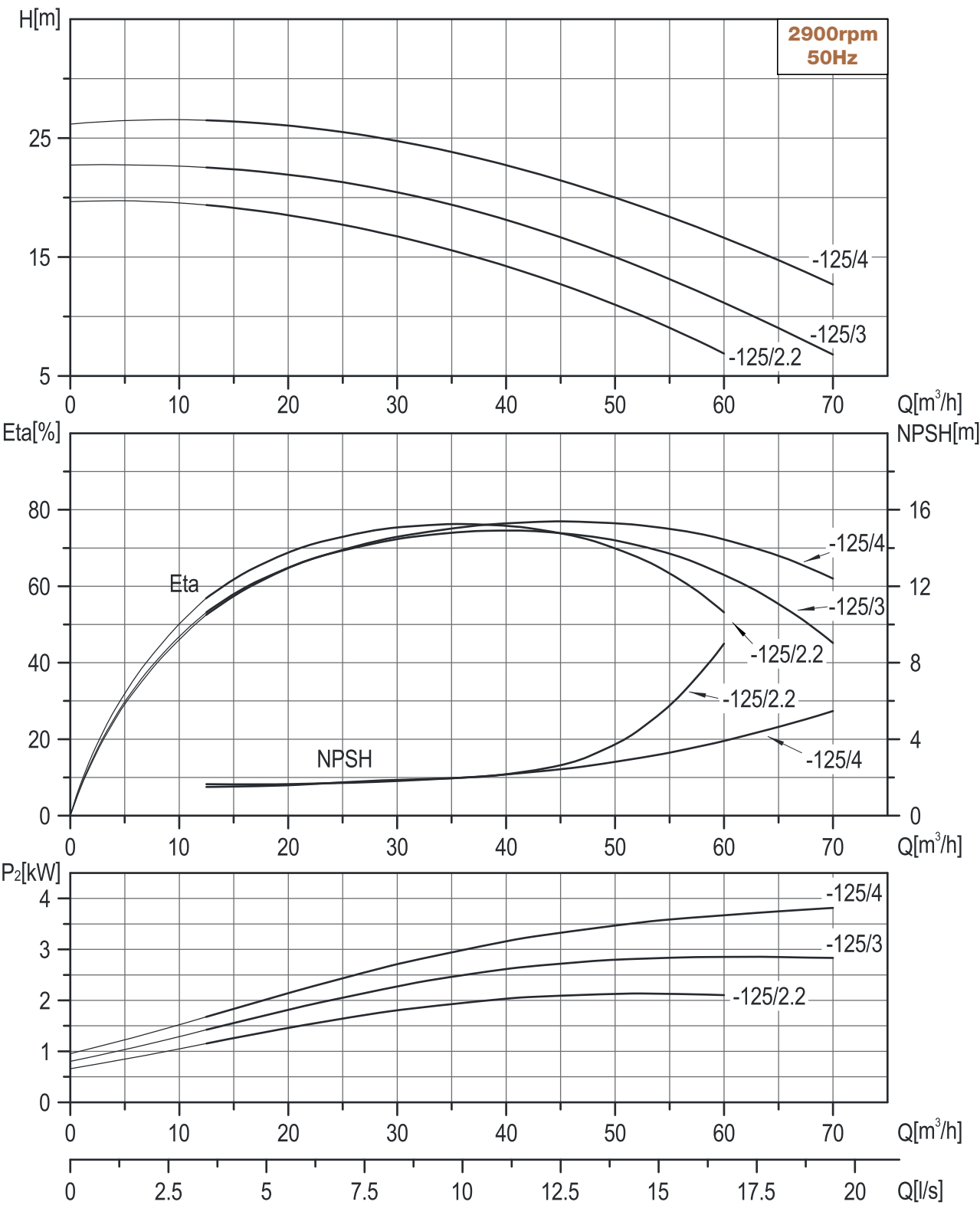
Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	6	10	15	20	25	30	35	40
	(kW)	(hp)									
NS40-200 5.5	5.5	7.5	H (m)	46.4	45.9	44.8	43.2	41.0	38.2	35.0	31.4
NS40-200 7.5	7.5	11		57.7	57.3	56.5	55.2	53.5	51.4	48.8	45.8



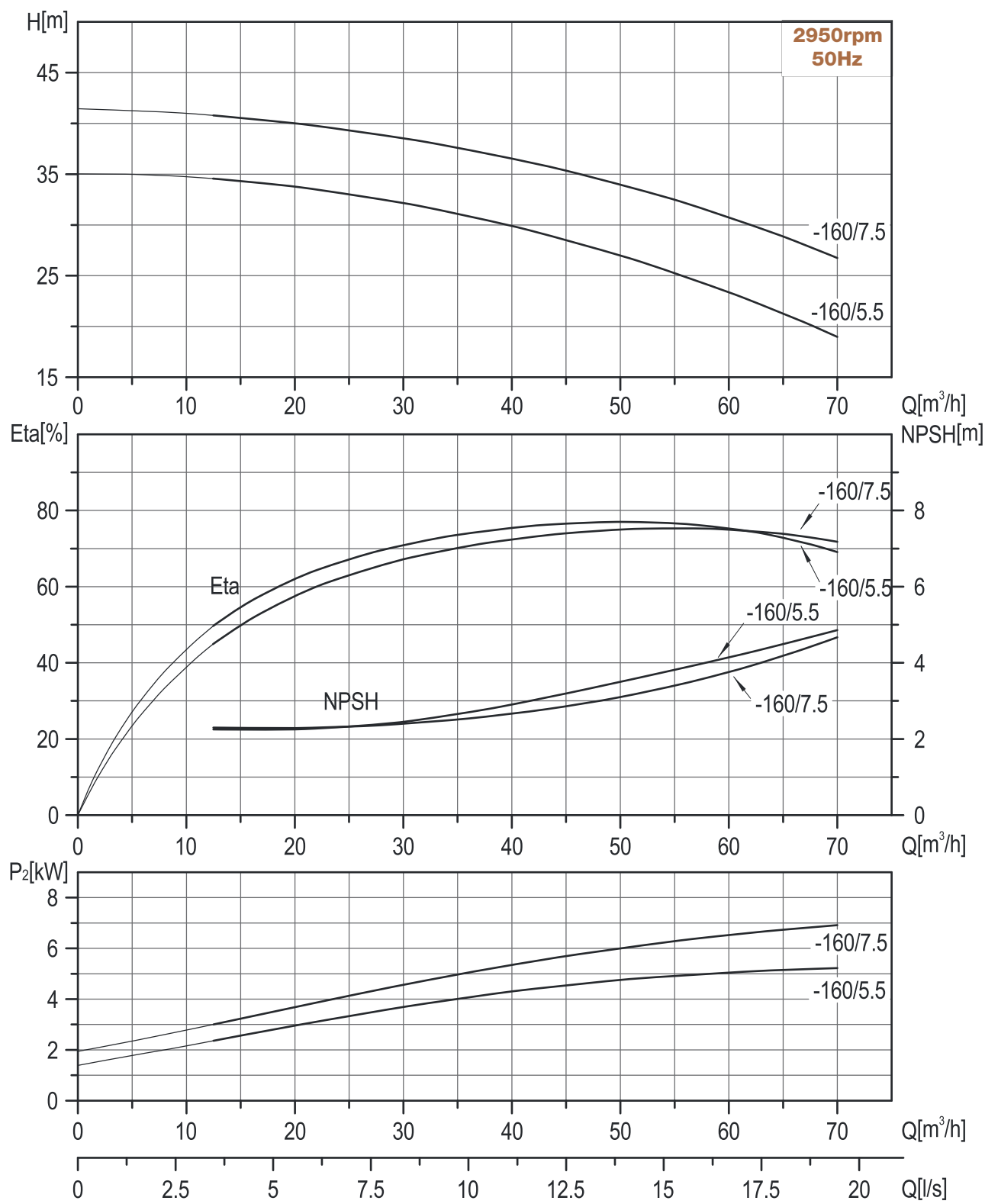
Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	6	10	15	20	25	30	35	40
	(kW)	(hp)									
NS40-250 9.2	9.2	12	H (m)	67.7	67.1	65.7	63.6	61.0	57.2	52.9	47.6
NS40-250 11	11	15		76.1	75.6	74.3	72.5	70.0	66.9	63.1	58.5
NS40-250 15	15	20		90.1	89.5	88.5	87.0	85.0	82.5	79.4	75.8



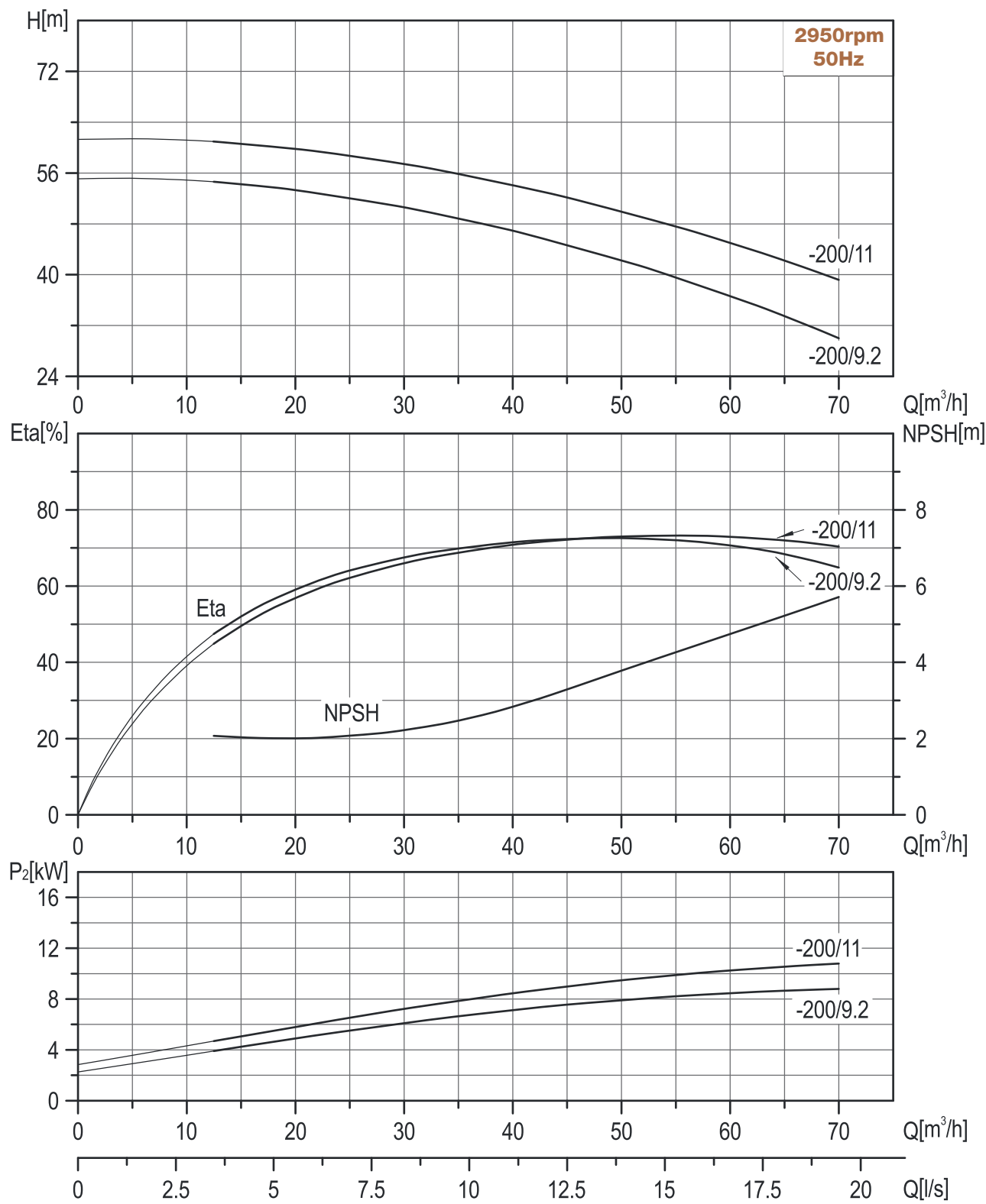
Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	12.5	20	30	40	50	60	65	70
	(kW)	(hp)									
NS50-125 2.2	2.2	3	H (m)	19.4	18.5	16.7	14.2	11.0	6.9		
NS50-125 3	3	4		22.5	21.9	20.4	18.1	14.5	11.2	9.0	6.8
NS50-125 4	4	5.5		26.5	26.1	24.8	22.7	20.0	16.6	14.7	12.7



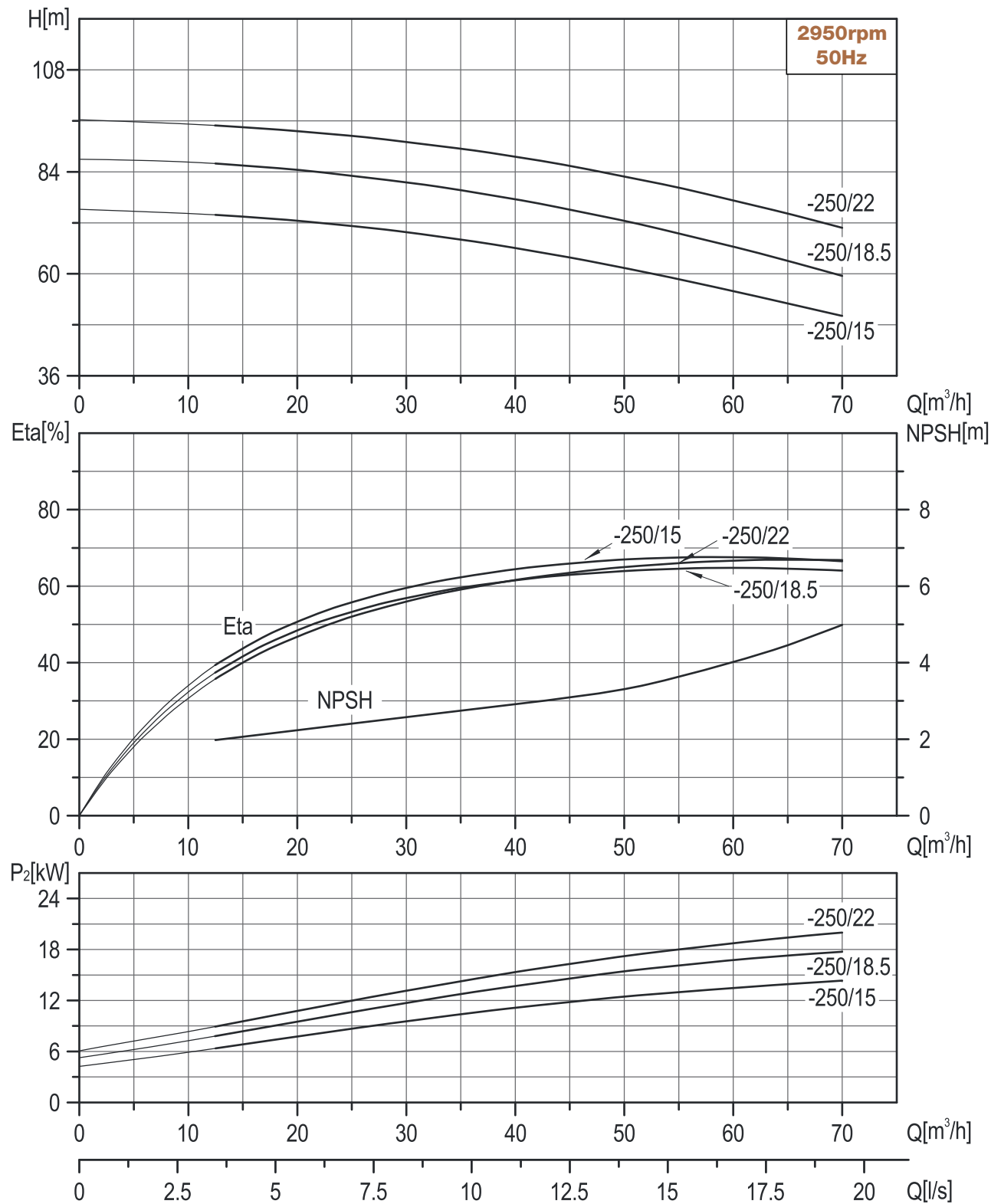
Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	12.5	20	30	40	50	60	65	70
	(kW)	(hp)									
NS50-160 5.5	5.5	7.5	H (m)	34.6	33.8	32.2	29.9	27.0	23.4	21.3	19.0
NS50-160 7.5	7.5	10		40.8	40.0	38.5	36.6	34.0	30.8	28.9	26.7



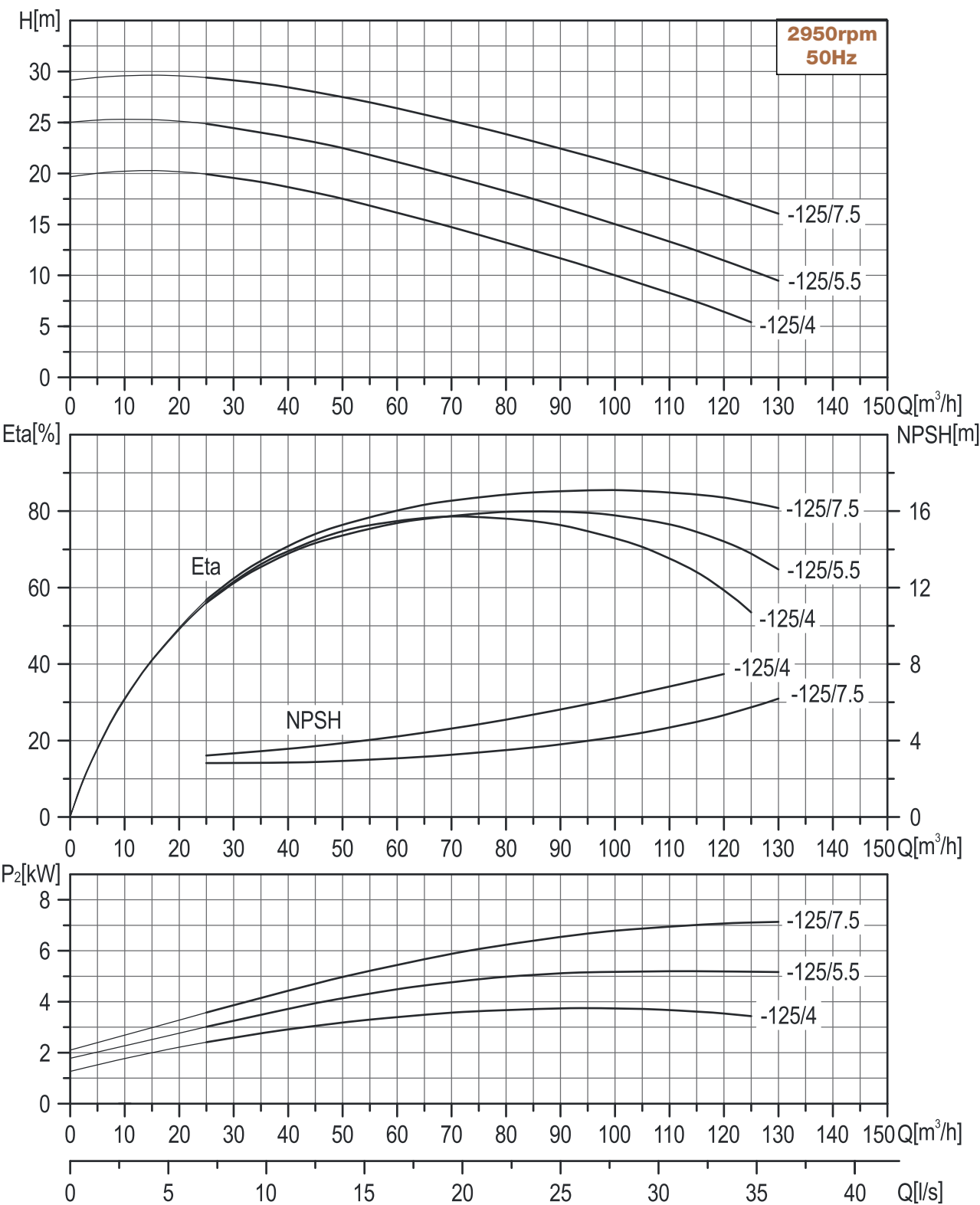
Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	12.5	20	30	40	50	60	65	70
	(kW)	(hp)									
NS50-200 9.2	9.2	12.5	H (m)	55.5	54.2	51.4	47.7	43.0	37.3	34.0	30.5
NS50-200 11	11	15		60.9	59.8	57.4	54.1	50.0	45.0	42.2	39.2



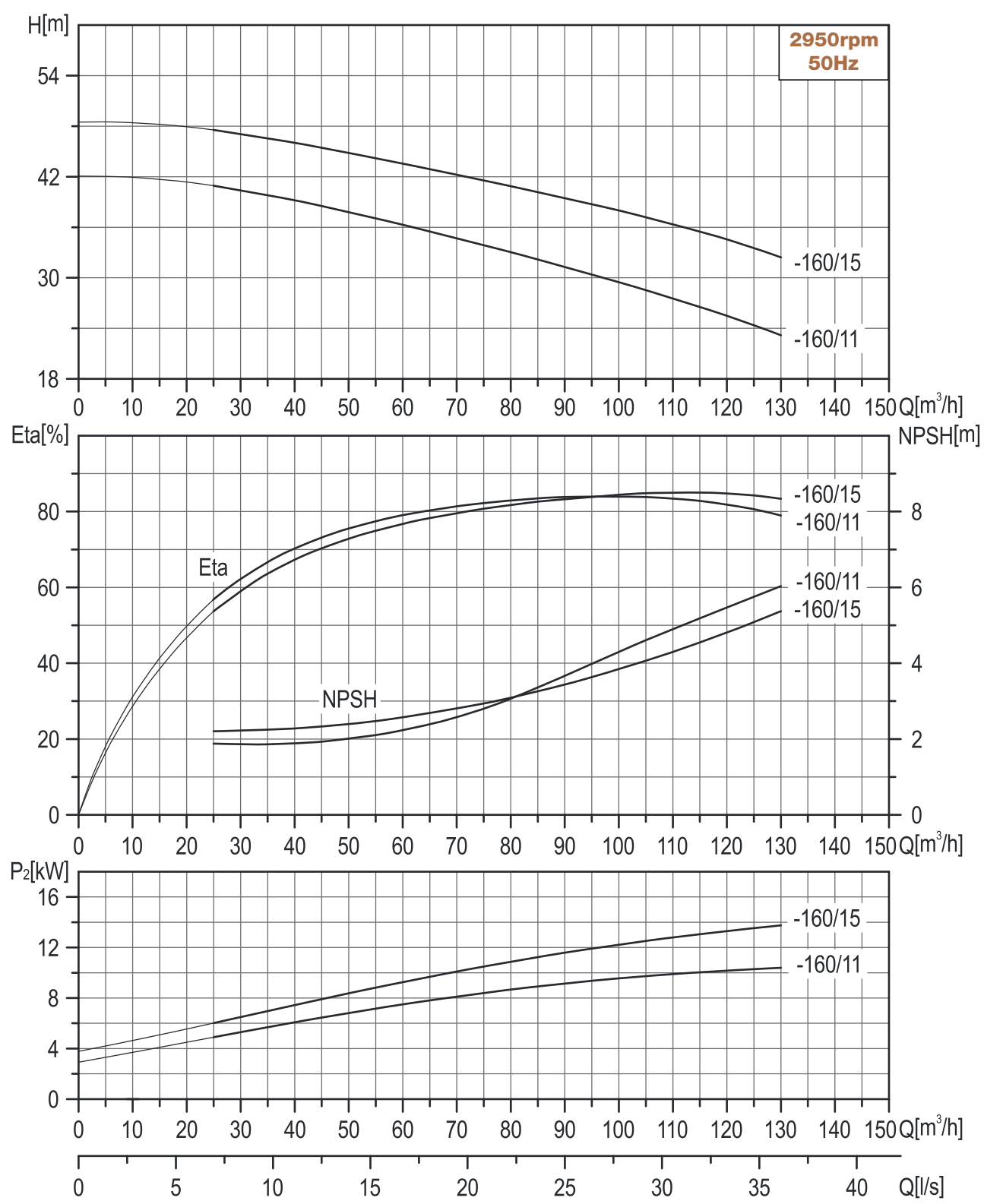
Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	12.5	20	30	40	50	60	65	70
	(kW)	(hp)									
NS50-250 15	15	20	H (m)	73.4	72.0	69.4	65.7	61.5	55.6	52.7	49.8
NS50-250 18.5	18.5	25		85.9	84.5	81.6	77.6	72.5	66.4	63.1	59.5
NS50-250 22	22	30		94.9	93.6	91.1	87.6	83.0	77.3	74.2	70.8



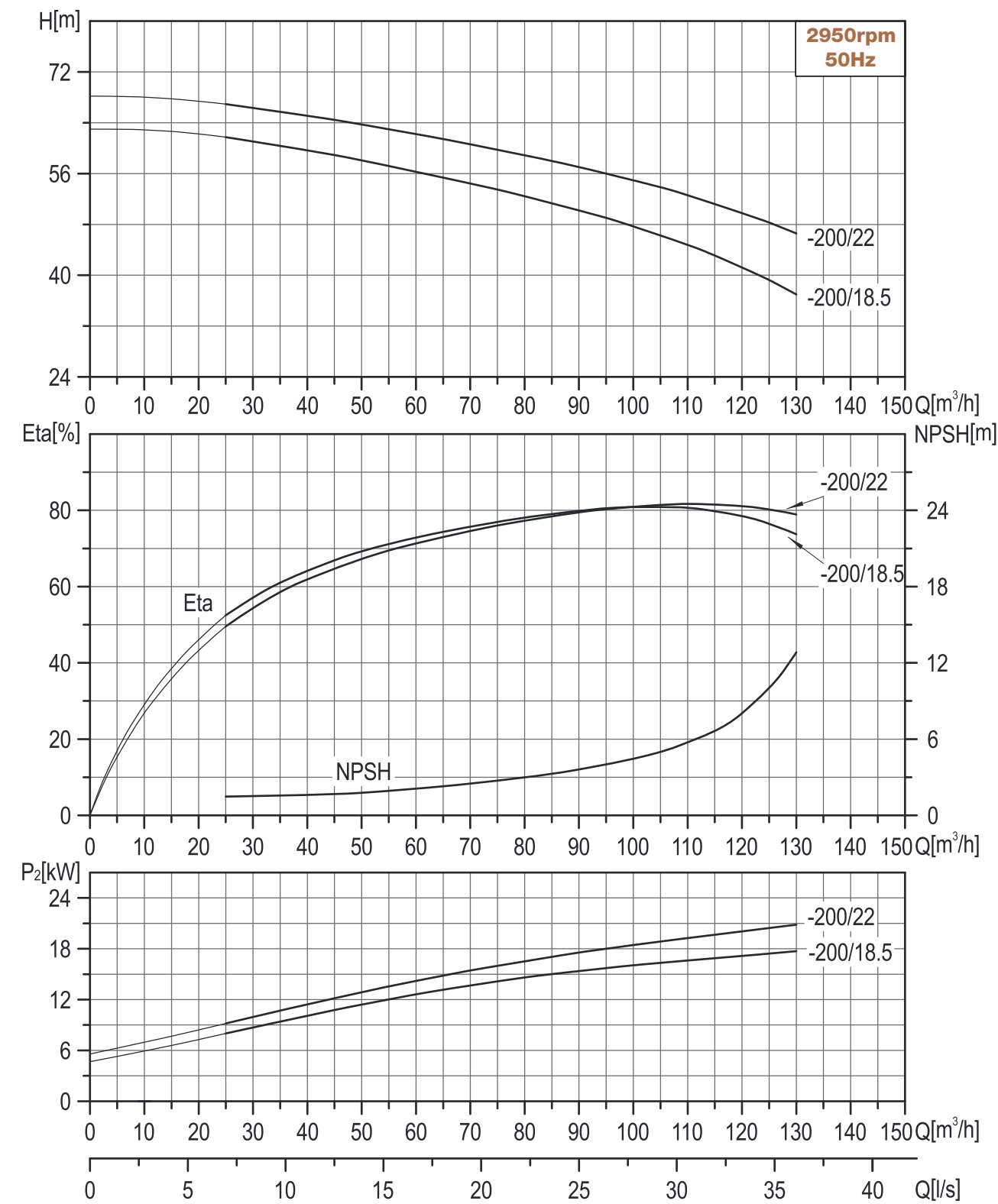
Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	25	30	40	50	60	70	80	90	100	110	120	130
	(kW)	(hp)													
NS65-125 4	4	5.5	H (m)	19.9	19.6	18.7	17.5	16.2	14.7	13.2	11.7	10.0	8.3	6.4	
NS65-125 5.5	5.5	7.5		24.8	24.4	23.5	22.4	21.1	19.7	18.2	16.6	15.0	13.3	11.4	9.4
NS65-125 7.5	7.5	10		29.4	29.2	28.4	27.5	26.4	25.2	23.9	22.5	21.0	19.5	17.8	16.0



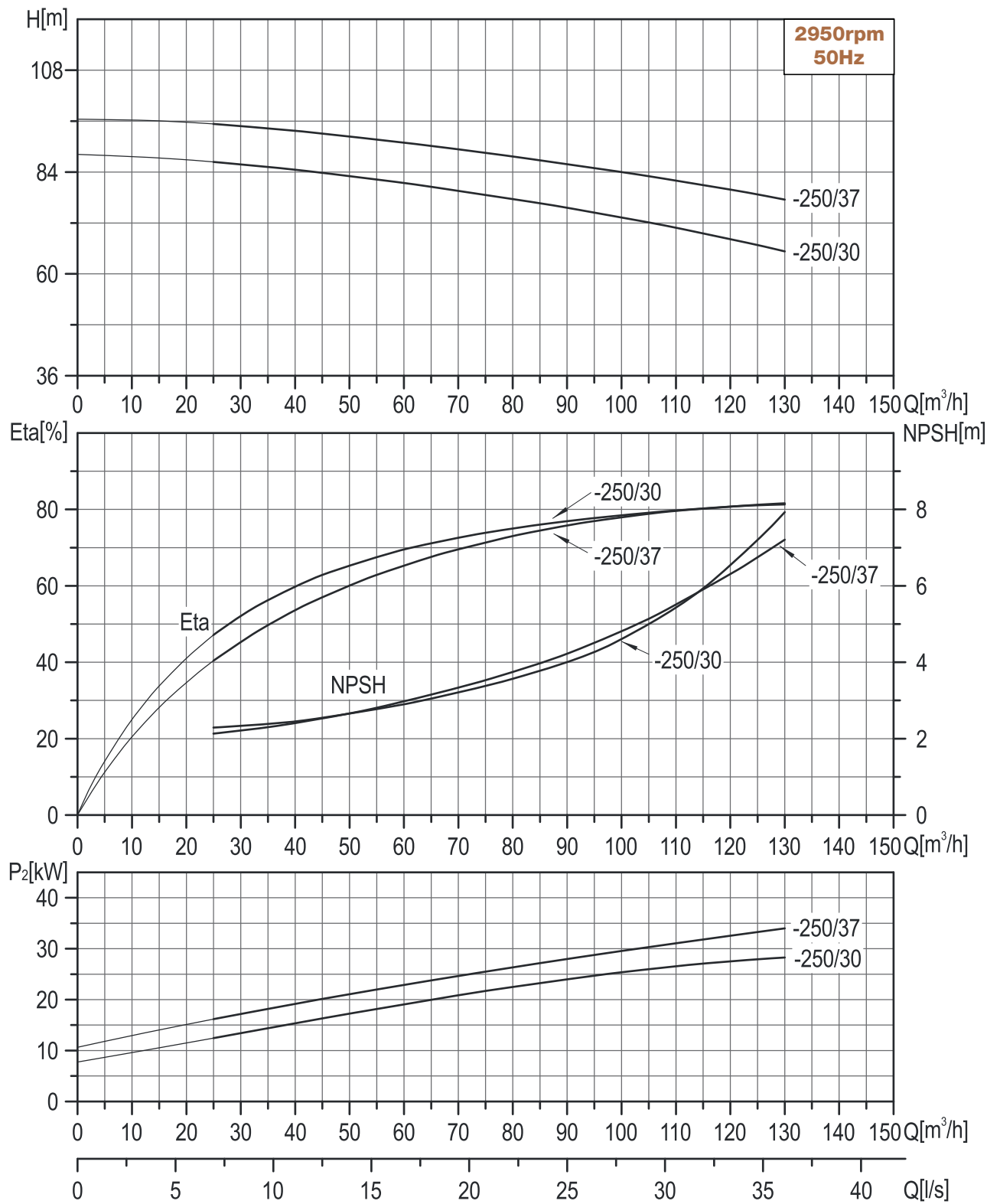
Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	25	30	40	50	60	70	80	90	100	110	120	130
	(kW)	(hp)													
NS65-160 11	11	15	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
NS65-160 15	15	20		47.5	47.1	46.0	44.8	43.6	42.2	40.9	39.5	38.0	36.4	34.6	32.4



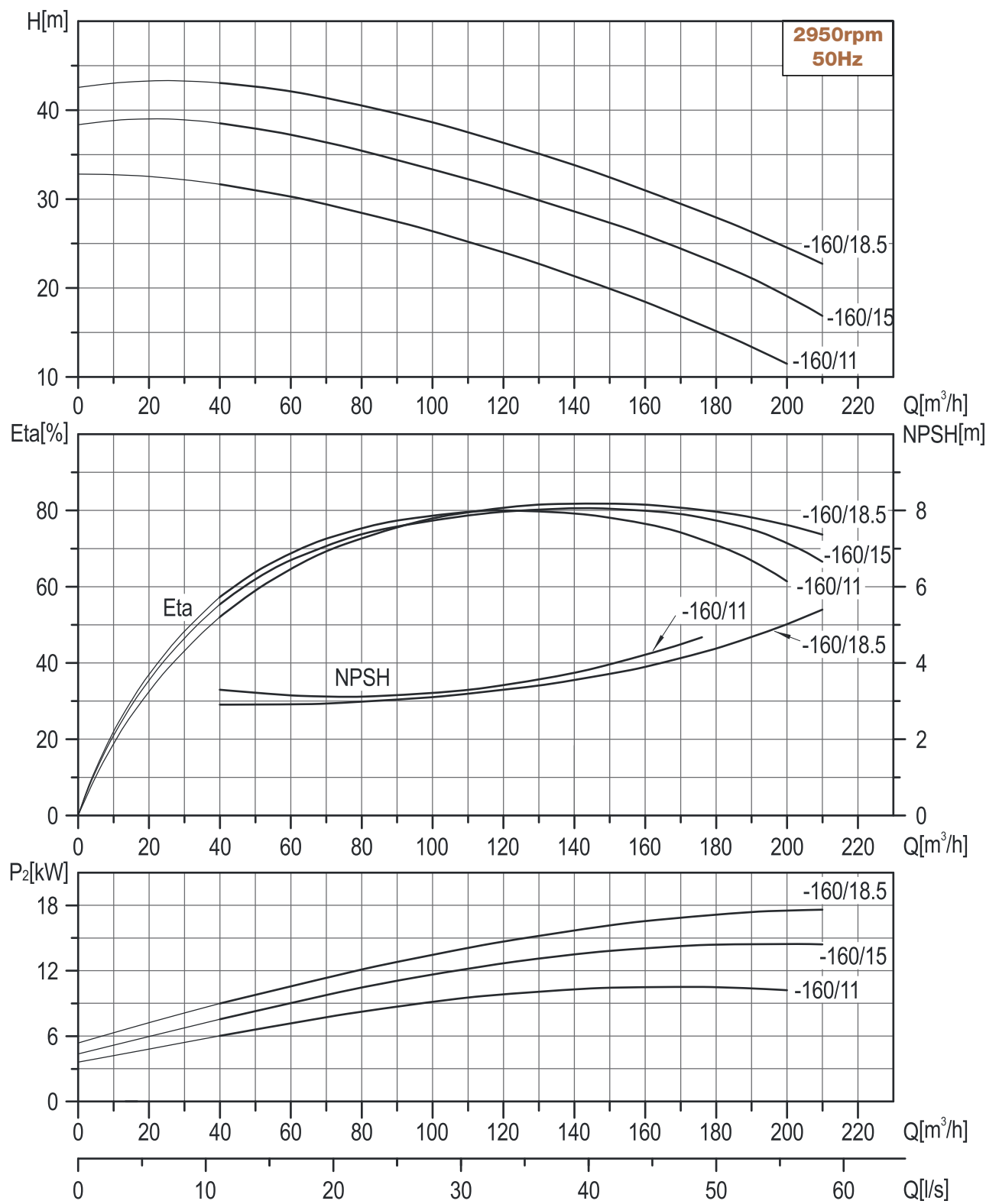
Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	25	30	40	50	60	70	80	90	100	110	120	130
	(kW)	(hp)													
NS65-200 18.5	18.5	25	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
NS65-200 22	22	30		66.9	66.4	65.1	63.7	62.2	60.6	58.9	57.0	55.0	52.7	49.9	46.6



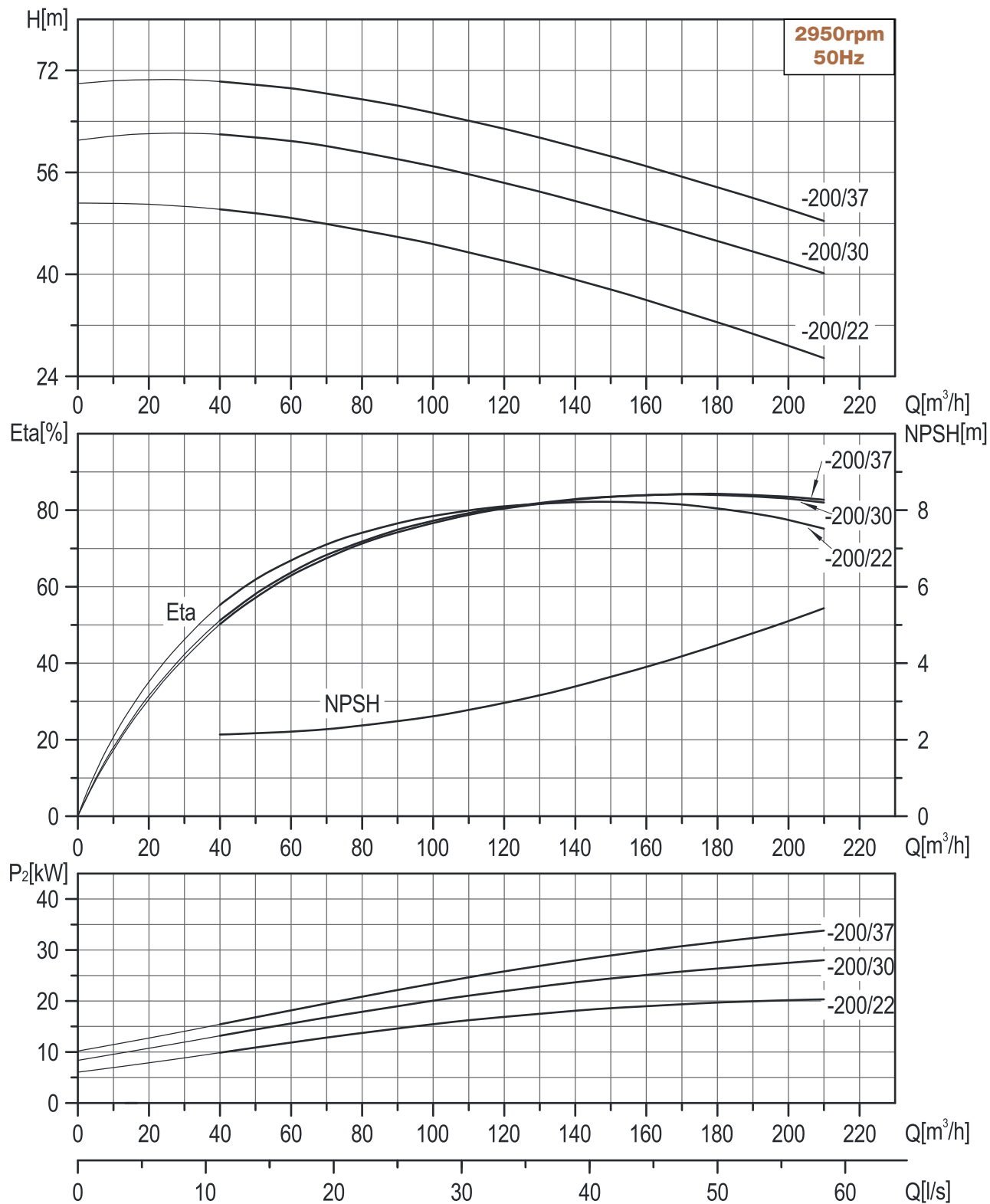
Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	25	30	40	50	60	70	80	90	100	110	120	130
	(kW)	(hp)													
NS65-250 30	30	40	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
NS65-250 37	37	50		95.3	94.9	93.7	92.4	90.9	89.4	87.7	85.9	84.0	82.0	79.9	77.5



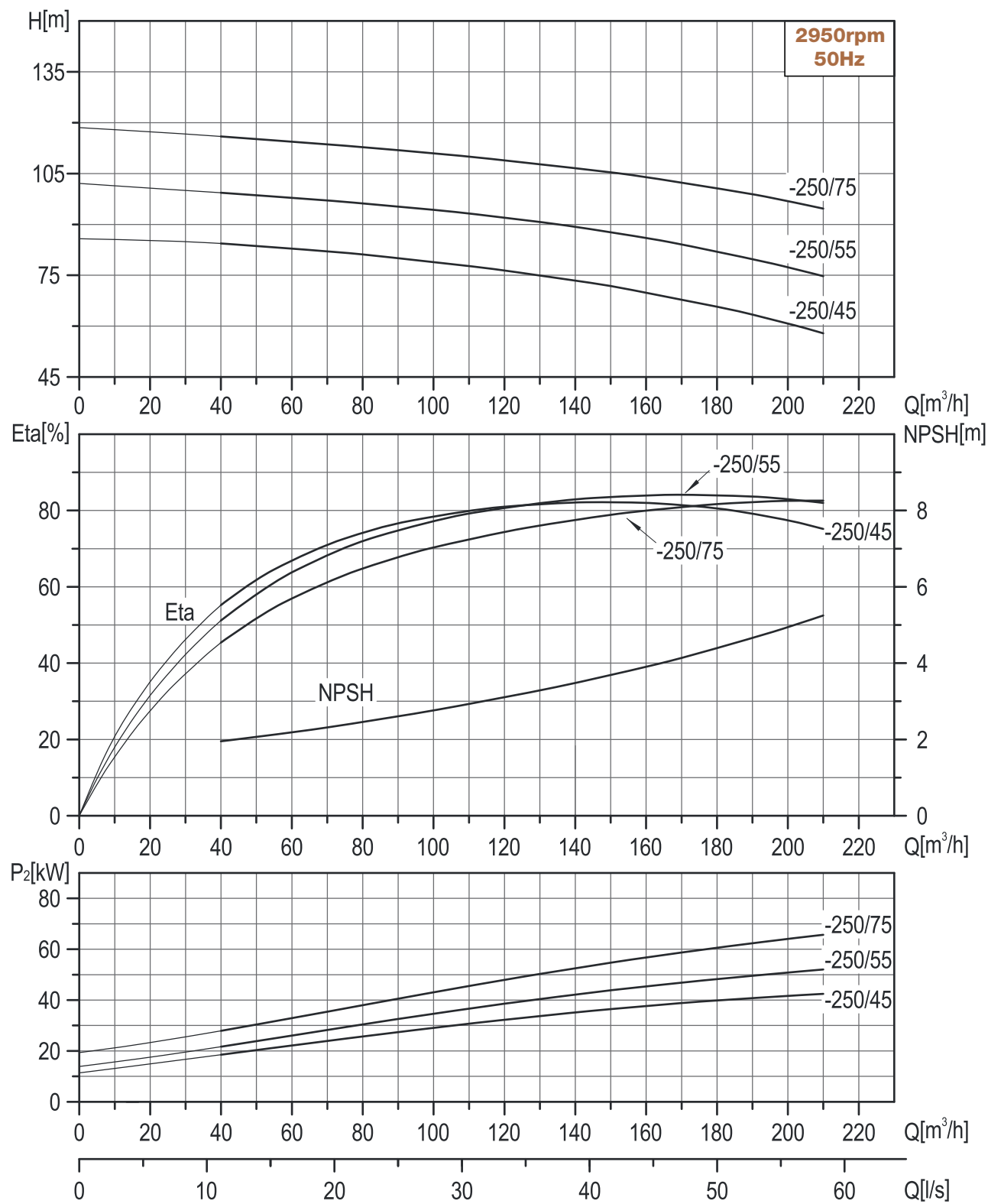
Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	40	60	80	100	120	140	160	180	200	210
	(kW)	(hp)											
NS80-160 11	11	15	H (m)	31.7	30.3	28.5	26.4	24.0	21.4	18.5	15.2	11.5	
NS80-160 15	15	20		38.5	37.2	35.4	33.4	31.1	28.7	26.0	23.5	19.1	16.9
NS80-160 18.5	18.5	25		43.1	42.1	40.6	38.6	36.4	33.8	31.0	28.0	24.6	22.7



Performance table 性能表

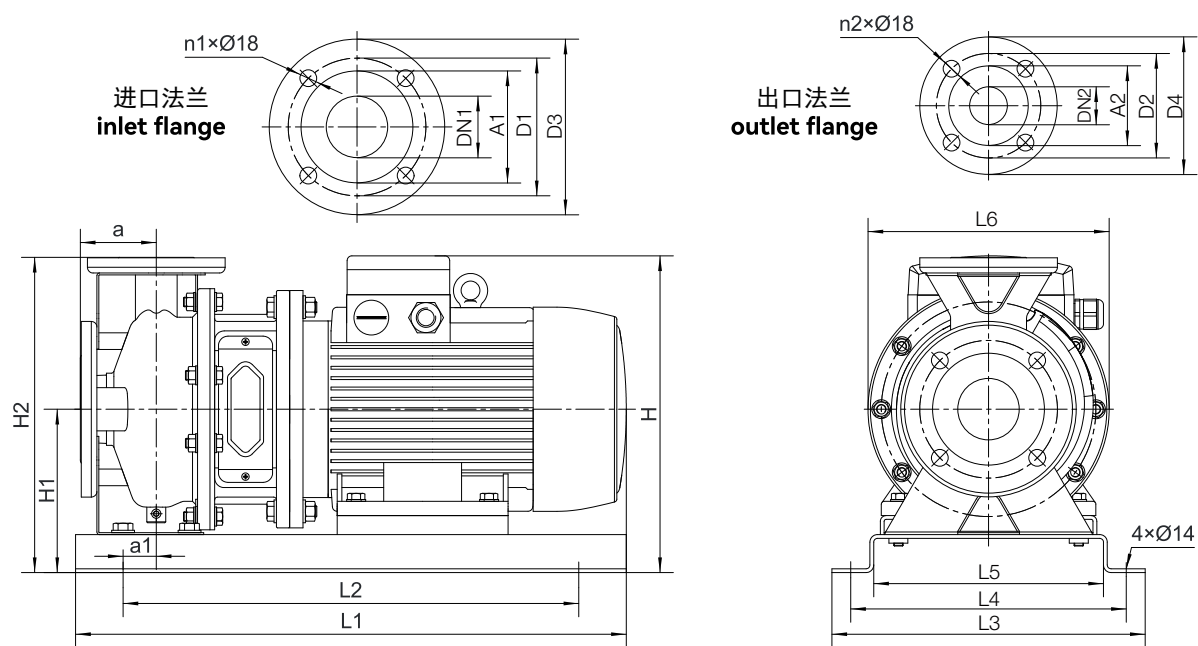
Model 型号	Motor 电机		Q (m³/h)	40	60	80	100	120	140	160	180	200	210
	(kW)	(hp)											
NS80-200 22	22	30	H (m)	50.2	48.8	47.0	44.8	42.1	39.2	36.0	32.5	28.8	26.9
NS80-200 30	30	40		61.9	60.9	59.2	57.0	54.4	51.5	48.5	45.3	41.9	40.2
NS80-200 37	37	50		70.3	69.2	67.5	65.4	62.8	60.0	57.0	53.7	50.2	48.4



Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	40	60	80	100	120	140	160	180	200	210
	(kW)	(hp)											
NS80-250 45	45	60	H (m)	84.4	82.9	81.1	79.0	76.4	73.5	70.0	65.8	60.8	57.9
NS80-250 55	55	75		99.3	97.9	96.2	94.3	92.1	89.3	86.0	82.1	77.4	74.7
NS80-250 75	75	100		115.9	114.4	112.8	111.0	109.0	106.7	104.0	100.8	96.9	94.6

Installation sketch 安装尺寸图



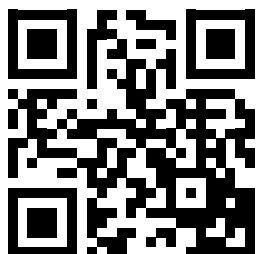
Size and weight 尺寸和重量

Model 型号	Size 尺寸(mm)																					Weight 净重 (kg)
	DN1	DN2	A1	A2	D1	D2	D3	D4	n1	n2	a	a1	H	H1	H2	L1	L2	L3	L4	L5	L6	
NS32-125H 0.55	50	32	98	75	125	100	160	139	4	4	80	30	225	152	292	435	335	280	240	200	213	22
NS32-125H 0.75	50	32	98	75	125	100	160	139	4	4	80	30	260	152	292	463	335	280	240	200	213	28
NS32-125 0.75	50	32	98	75	125	100	160	139	4	4	80	30	260	152	292	463	335	280	240	200	213	28
NS32-125 1.1	50	32	98	75	125	100	160	139	4	4	80	30	260	152	292	463	335	280	240	200	213	29
NS32-125 1.5	50	32	98	75	125	100	160	139	4	4	80	30	271	152	292	507	335	280	240	200	213	34
NS32-160 2.2	50	32	98	75	125	100	160	139	4	4	80	30	291	172	332	505	405	340	300	252	254	42
NS32-160 3	50	32	98	75	125	100	160	139	4	4	80	30	305	172	332	561	405	340	300	252	254	52
NS32-200 4	50	32	98	75	125	100	160	139	4	4	80	30	350	200	380	596	475	380	340	292	300	63
NS32-200 5.5	50	32	98	75	125	100	160	139	4	4	80	30	372	200	380	620	475	380	340	292	300	82
NS32-250 7.5	50	32	98	75	125	100	160	139	4	4	100	40	392	220	445	645	525	430	390	342	350	100
NS32-250 9.2	50	32	98	75	125	100	160	139	4	4	100	40	392	220	445	661	525	430	390	342	350	105
NS32-250 11	50	32	98	75	125	100	160	139	4	4	100	40	411	220	445	787	665	430	390	342	350	168
NS40-125 1.1	65	40	118	84	145	110	185	145	4	4	80	30	280	152	292	463	335	280	240	200	208	29
NS40-125 1.5	65	40	118	84	145	110	185	145	4	4	80	30	271	152	292	507	335	280	240	200	208	35
NS40-125 2.2	65	40	118	84	145	110	185	145	4	4	80	30	271	152	292	428	335	280	240	200	208	38
NS40-160 3	65	40	118	84	145	110	185	145	4	4	80	30	305	172	332	564	405	340	300	252	254	52
NS40-160 4	65	40	118	84	145	110	185	145	4	4	80	30	322	172	332	575	405	340	300	252	254	59
NS40-200 5.5	65	40	118	84	145	110	185	145	4	4	100	40	372	200	380	643	485	380	340	292	300	83
NS40-200 7.5	65	40	118	84	145	110	185	145	4	4	100	40	372	200	380	643	485	380	340	392	300	91
NS40-250 9.2	65	40	118	84	145	110	185	145	4	4	100	40	392	220	445	668	525	430	390	342	350	105
NS40-250 11	65	40	118	84	145	110	185	145	4	4	100	40	441	220	445	790	665	430	390	342	350	169
NS40-250 15	65	40	118	84	145	110	185	145	4	4	100	40	441	220	445	790	665	430	390	342	350	184
NS50-125 2.2	65	50	118	98	145	125	185	160	4	4	100	40	291	172	332	536	415	340	300	252	213	41
NS50-125 3	65	50	118	98	145	125	185	160	4	4	100	40	304	172	332	592	415	340	300	252	250	51
NS50-125 4	65	50	118	98	145	125	185	160	4	4	100	40	322	172	332	603	415	340	300	252	250	58
NS50-160 5.5	65	50	118	98	145	125	185	160	4	4	100	40	372	200	380	654	485	380	340	292	300	81
NS50-160 7.5	65	50	118	98	145	125	185	160	4	4	100	40	372	200	380	654	485	380	340	292	300	89
NS50-200 9.2	65	50	118	98	145	125	185	160	4	4	100	40	372	200	400	658	485	380	340	292	350	97
NS50-200 11	65	50	118	98	145	125	185	160	4	4	100	40	421	200	400	782	665	430	390	342	350	163
NS50-250 15	65	50	118	98	145	125	185	160	4	4	100	40	441	220	445	790	670	455	415	365	350	186
NS50-250 18.5	65	50	118	98	145	125	185	160	4	4	100	40	441	220	445	834	670	455	415	365	350	194
NS50-250 22	65	50	118	98	145	125	185	160	4	4	100	40	460	220	445	868	670	455	415	365	350	246
NS65-125 4	80	65	130	118	160	145	200	185	8	4	100	40	350	200	380	605	485	380	340	292	250	60
NS65-125 5.5	80	65	130	118	160	145	200	185	8	4	100	40	372	200	380	657	485	380	340	292	300	78
NS65-125 7.5	80	65	130	118	160	145	200	185	8	4	100	40	372	200	380	657	485	380	340	292	300	86

Size and weight 尺寸和重量

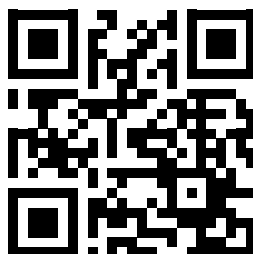
Model 型号	Size 尺寸(mm)																					Weight 净重 (kg)
	DN1	DN2	A1	A2	D1	D2	D3	D4	n1	n2	a	a1	H	H1	H2	L1	L2	L3	L4	L5	L6	
NS65-160 11	80	65	130	118	160	145	200	185	8	4	100	40	421	200	400	798	665	430	390	342	350	160
NS65-160 15	80	65	130	118	160	145	200	185	8	4	100	40	421	200	400	798	665	430	390	342	350	175
NS65-200 18.5	80	65	130	118	160	145	200	185	8	4	100	40	441	220	445	835	670	455	415	365	350	190
NS65-200 22	80	65	130	118	160	145	200	185	8	4	100	40	460	220	445	869	670	455	415	365	355	243
NS65-250 30	80	65	130	118	160	145	200	185	8	4	100	40	502	240	490	953	785	495	455	405	420	314
NS65-250 37	80	65	130	118	160	145	200	185	8	4	100	40	502	240	490	953	785	495	455	405	420	334
NS80-160 11	100	80	150	130	180	160	220	200	8	8	125	55	441	220	445	833	690	430	390	340	350	164
NS80-160 15	100	80	150	130	180	160	220	200	8	8	125	55	441	220	445	833	690	430	390	340	350	179
NS80-160 18.5	100	80	150	130	180	160	220	200	8	8	125	55	441	220	445	877	690	430	390	340	350	187
NS80-200 22	100	80	150	130	180	160	220	200	8	8	125	55	460	240	490	905	765	495	455	405	355	249
NS80-200 30	100	80	150	130	180	160	220	200	8	8	125	55	502	240	490	988	765	495	455	405	400	310
NS80-200 37	100	80	150	130	180	160	220	200	8	8	125	55	502	240	490	988	765	495	455	405	400	330
NS80-250 45	100	80	150	130	180	160	220	200	8	8	125	55	572	360	640	1043	755	560	520	464	450	457
NS80-250 55	100	80	150	130	180	160	220	200	8	8	125	55	646	360	640	1156	865	640	590	520	550	543
NS80-250 75	100	80	150	130	180	160	220	200	8	8	125	55	725	360	640	1219	925	700	650	580	550	708

Notes



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subject to amendments

