

# XST

## Standard Centrifugal Pump



0.75kw~7.5kw

9.2kw~55kw

### Application

- Circulation and transfer of clean, chemically non-aggressive water and other liquids
- Water supply & irrigation
- Water circulation in air conditioning systems

### Operating conditions

- Delivery: up to 220 m<sup>3</sup>/h
- Head: up to 95 m
- Liquid temperature:
- Standard: -10°C to 85°C
- Maximum operating pressure: 12 bar (PN12)
- Anti-clockwise rotation when facing pump's suction port
- Impeller: AISI304 , HT200
- Mechanical seal in compliance with DIN 24960
- Lubricated by internal recirculating pumped liquid
- Counter flange available on request

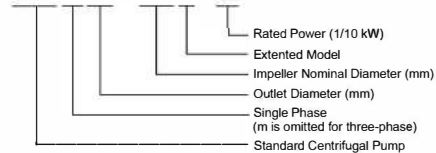
### Motor

- Closed construction, external ventilation
- Insulation class: F
- Protection class: IP64
- Performance in compliance with CEI 2-3 (IEC 34.1)
- Max. ambient temperature: +40°C
- Overload protection
- For model that ≥9.2kw: Equipped with IE2 motor, IE3 motor available on request.

For model that ≤7.5kw, the following 4 models can be equipped with IE3 motor. (XST40-160/30、XST40-160/40、XST50-160/55、XST50-160/75)

### Identification Codes

#### XST m 32 - 125 K / 11



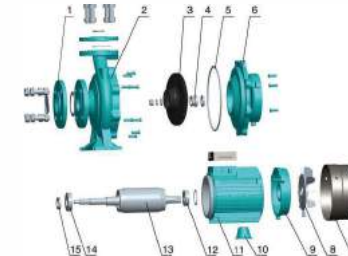
### Construction Features

- Single-impeller centrifugal pump featuring axial intake and radial discharge
- Inlet and outlet DN in compliance with EN 733 (ex DIN 24255) and UNI 7467
- Flanges in compliance with UNI 2236 and DIN 2532
- Rear entry (impeller, motor can be extracted without disconnecting the pump body from the pipes)

### Materials Table

#### 0.75kw~7.5kw

No.	Part	Material
1	Flange	HT200
2	Pump body	HT200
3	Impeller	HT200 , AISI304
4	Mechanical seal	Carbon/Silicon carbide
5	O-ring	NBR
6	Pump support	HT200
7	Fan cover	QSP
8	Fan	PP
9	Rear cover	ZL102
10	Support	HT200
11	Stator	
12	Bearing	
13	Rotor	
14	Bearing	
15	Oil seal	



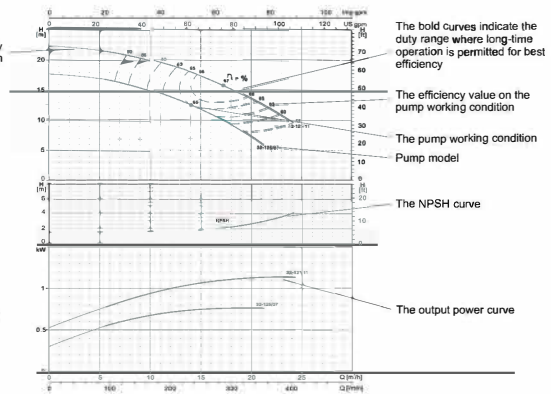
#### 9.2kw~55kw

No.	Part	Material
1	Flange	HT200
2	Pump body	HT200
3	O-ring	NBR
4	Impeller	HT200 , AISI304
5	Mechanical seal	Carbon/Silicon carbide
6	Guarding plate	D6C18Ni10
7	Pump support	HT200
8	Pump shaft	45#06Cr18Ni10
9	Motor	



### How to Read The Curve Charts

The thin curves indicate the duty range where long-time operation is not allowed



### Guidelines to Performance Curves

Tolerances to ISO 9906, Annex A. Measurements have been made with airless water at a temperature of 20°C and kinematic viscosity of 1 mm<sup>2</sup>/s.

To avoid overheating of the motor, the pump should not be used against a high head for a long time.

XST

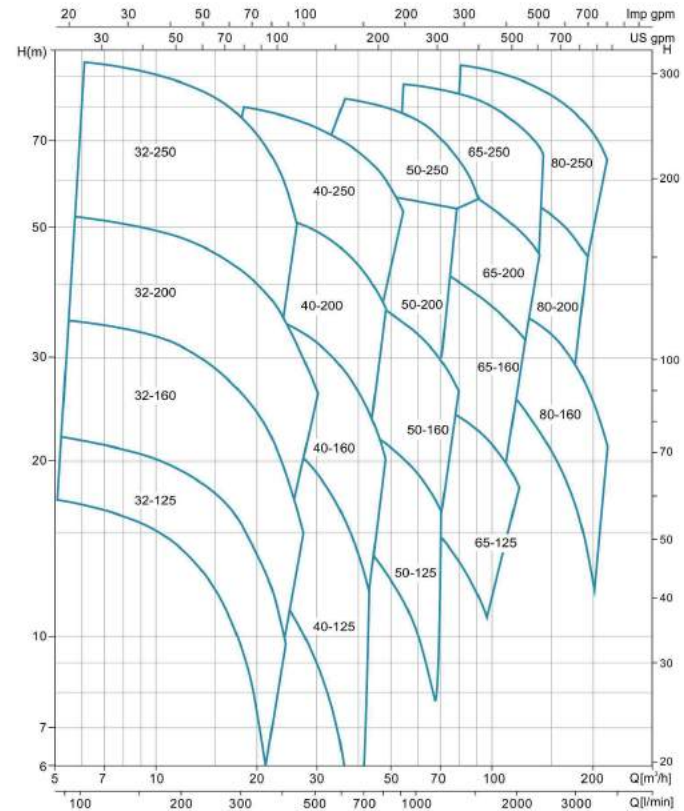
**Technical Data**

PUMP TYPE	POWER kW	HP	I/min m³/h	Q=DELIVERY																				
				0	100	150	250	300	400	450	500	600	700	800	900	1200	1400	1500	1800	2000	2300	3000	3500	
32-125/7* <sup>Δ</sup>	0.75	1	17.5	16.7	15	12	9																	
32-125/11* <sup>Δ</sup>	1.1	1.5	22	21	20.2	17	15	9																
32-160/15* <sup>Δ</sup>	1.5	2	24	23.7	22.5	19.5	16.2																	
32-160/22* <sup>Δ</sup>	2.2	3	31	29.6	29	25.5	22.5	15																
32-160/30* <sup>Δ</sup>	3	4	34.5	33.5	33	29	26.5	20	16.5															
32-200/30*	3	4	43.2	42	40.5	35.2	32.2	24.6	19.8															
32-200/40*	4	5.5	52	50.5	50	45	41.9	35	30.3															
32-250/55**	5.5	7.5	79	74.7	71.8	63	56	37.5																
32-250/75**	7.5	10	95	92	89	82	75	57.8																
40-125/11 <sup>Δ</sup>	1.1	1.5	14.7				13	11.5	10.1															
40-125/15 <sup>Δ</sup>	1.5	2	18.1				17	15	13.9															
40-125/22 <sup>Δ</sup>	2.2	3	24.5				23.2	21.5	20.2	16	12													
40-160/30	3	4	31.8				29	27.5	26.3	21.5	17.5													
40-160/40	4	5.5	38				36	34	33	28.5	25	20.1												
40-200/55*	5.5	7.5	44				42	40	38	32	27													
40-200/75*	7.5	10	55				52	49	48	42	37	32												
40-250/92*	11	15	64				59	56.5	55	49.5	45	39.8												
40-250/110*	11	15	72				67.5	65	63.5	57.5	52.2	47												
40-250/150*	15	20	82				79	77.3	76.5	71	66	60.5												
50-125/22 <sup>Δ</sup>	2.2	3	17					15.4	14	12.8	11.5													
50-125/30	3	4	20					18.8	18	17	15.6													
50-125/40	4	5.5	24					23.1	22.6	21.5	20.3	15.8												
50-160/55	5.5	7.5	32					30.6	30	28	26.6	20.5												
50-160/75	7.5	10	40					38	37	36	34.4	29												
50-200/92*	11	15	50.5					46.8	45	43	40.9	32.5												
50-200/110*	11	15	57.5					53.5	52	50	47.5	40												
50-250/150*	15	20	68.5					64	63	61.5	59	50	41											
50-250/185*	18.5	25	77					73.2	72	70	68	60.5	51.5											
50-250/220*	22	30	86.3					83	81.5	80	78	70	61											
65-125/40	4	5.5	19							17.3	16.8	14.5	13	11.8										
65-125/55	5.5	7.5	23							21.3	20.9	19	17.5	16.7	13.7									
65-125/75	7.5	10	27							26	25.6	24.5	23	22.5	20	18								
65-160/92	11	15	33									31.5	30	28	27.1	24	21.5							
65-160/110	11	15	36									34.5	33	31.5	30.8	28	25.5							
65-160/150	15	20	42									41	40	38.5	37.8	35	33							
65-200/150	15	20	45.5									46	43.5	41	39.2	33								
65-200/185	18.5	25	53									53.5	51.2	48.3	47	41.5								
65-200/220	22	30	59									59.5	57.2	54	53	47	43.5							
65-200K/185	18.5	25	41.2									42	41.2	40.6	38.2	36.5	34							
65-200K/220	22	30	48									48	47.5	46	44	41								
65-200K/300	30	40	59.5									59	58.5	58	56.2	54								
65-250/220	22	30	62									61.5	60.2	58.5	54	49	45							
65-250/300	30	40	76									75	73	70	69	64	61	54						
65-250/370	37	50	90									88	86	84	82	78	74	68						
80-160/110	11	15	27											27.3	26	24.5	22.5	16						
80-160/150	15	20	32.8											32.5	31.3	30.2	28	22.1	16.7					
80-160/185	18.5	25	39											38	36.8	35.7	33.8	28.8	23.5					
80-200/220	22	30	48											47.5	46	43.5	41	32.5						
80-200/300	30	40	60											59.5	58	57	54.5	47						
80-250/370	37	50	71.5											70.5	67.5	65.5	61.5	49.5	38					
80-250/450	45	60	82											80.5	78.5	76.5	72	62	51					
80-250/550	55	75	95											93.5	91.2	89.8	86.8	77.6	68.3					

\*=AIS1304 impeller \*\*=Double AIS1304 impeller  
Models marked with \* Δ \* have both single phase and three phase type, other models only have three phase type

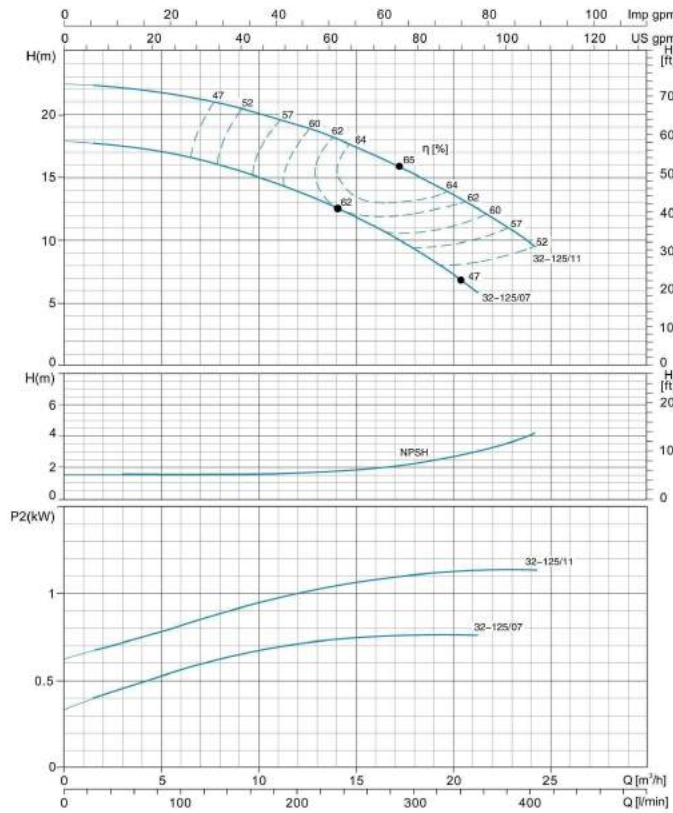
**Characteristic Curves**

<b>XST</b>	<b>~2900rpm</b>	<b>ISO 9906 Annex A</b>
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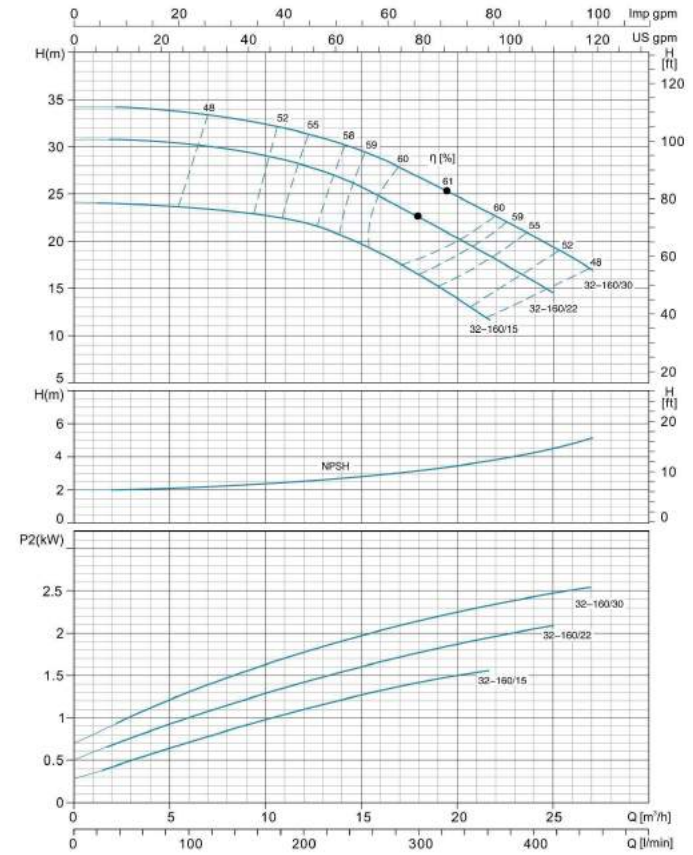
Hydraulic Performance Curves

XST(m)32-125	~2900rpm	ISO 9906 Annex A
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Hydraulic Performance Curves

XST(m)32-160	~2900rpm	ISO 9906 Annex A
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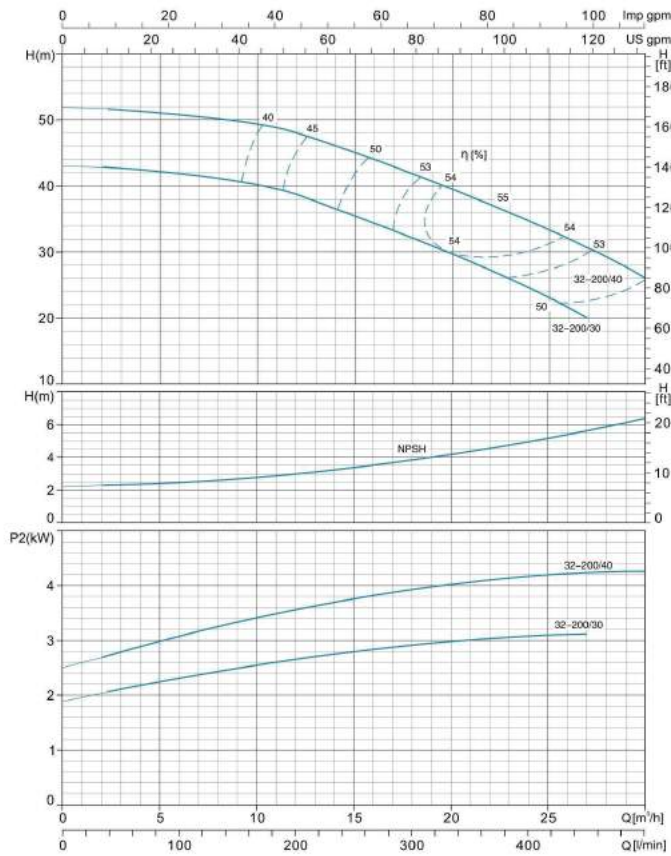


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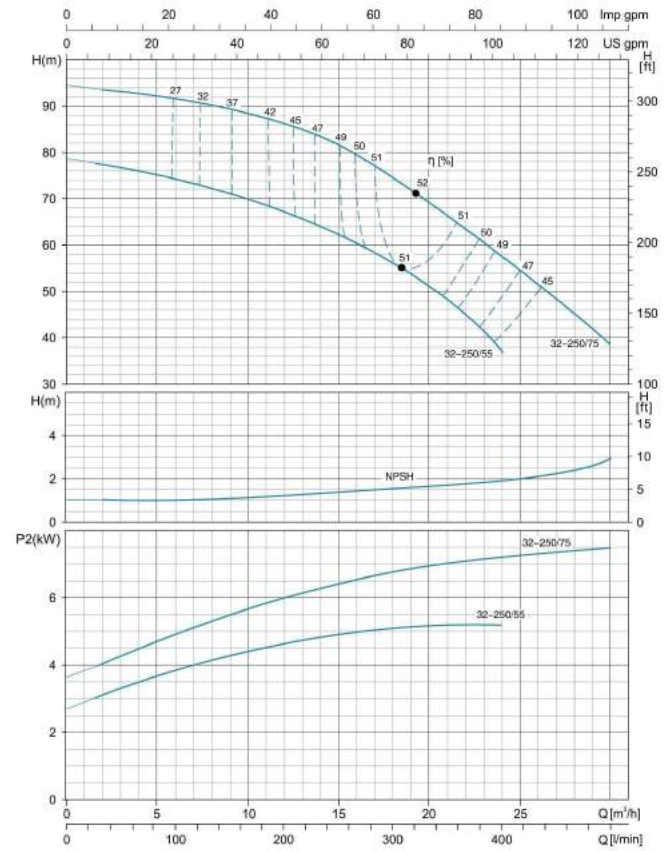
Hydraulic Performance Curves

XST32-200	~2900rpm	ISO 9906 Annex A
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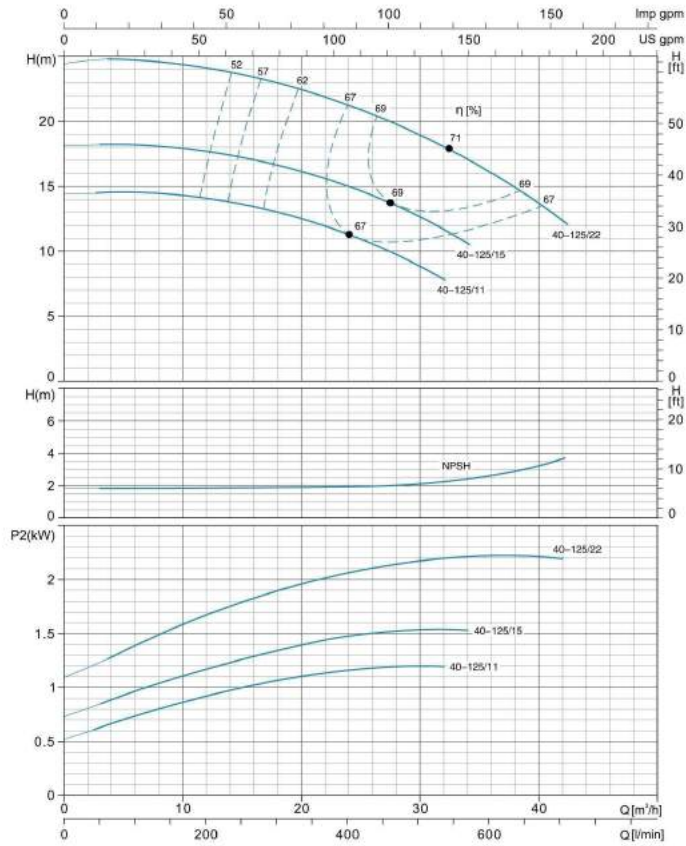
Hydraulic Performance Curves

XST32-250	~2900rpm	ISO 9906 Annex A
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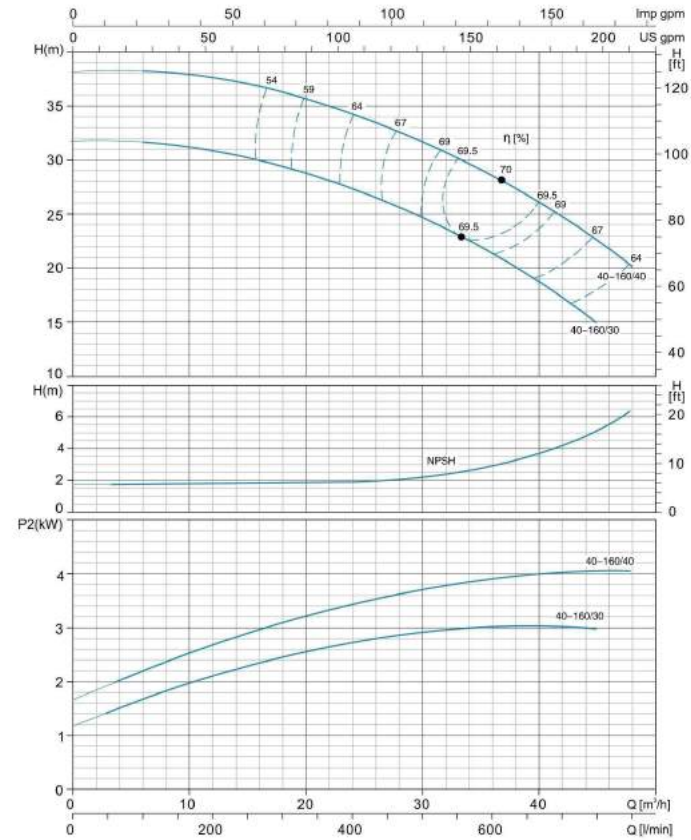
Hydraulic Performance Curves

XST(m)40-125	~2900rpm	ISO 9906 Annex A
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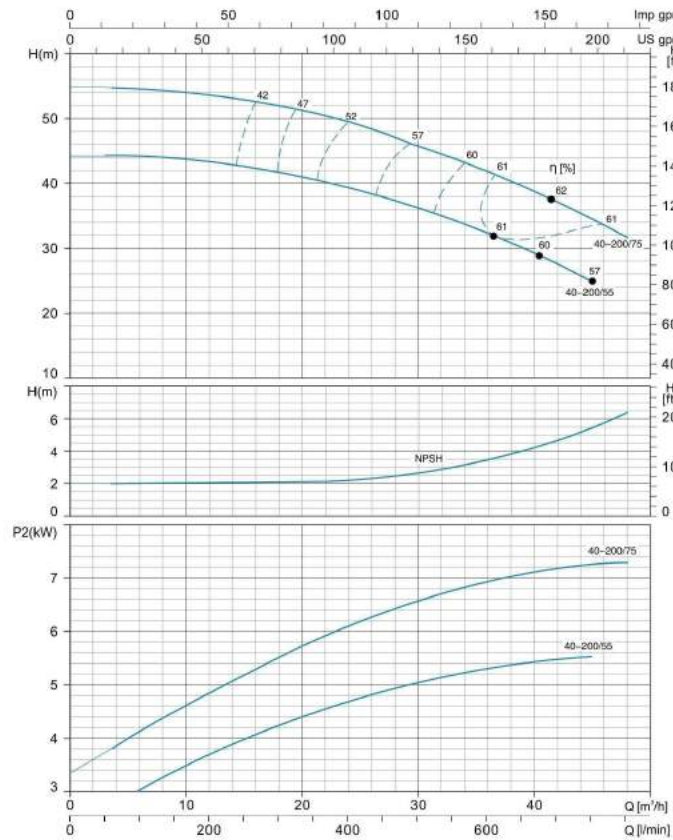
Hydraulic Performance Curves

XST40-160	~2900rpm	ISO 9906 Annex A
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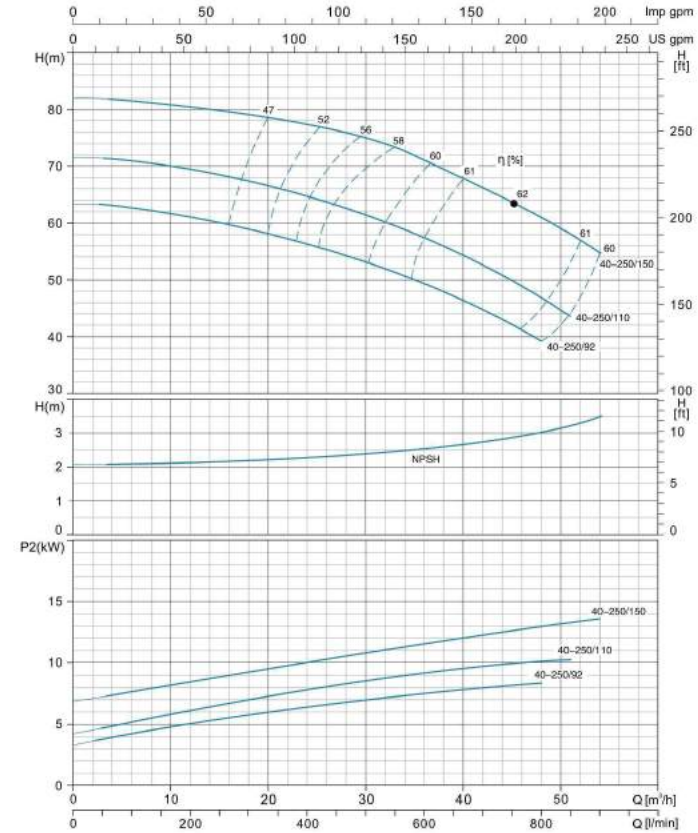
Hydraulic Performance Curves

XST40-200	~2900rpm	ISO 9906 Annex A
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Hydraulic Performance Curves

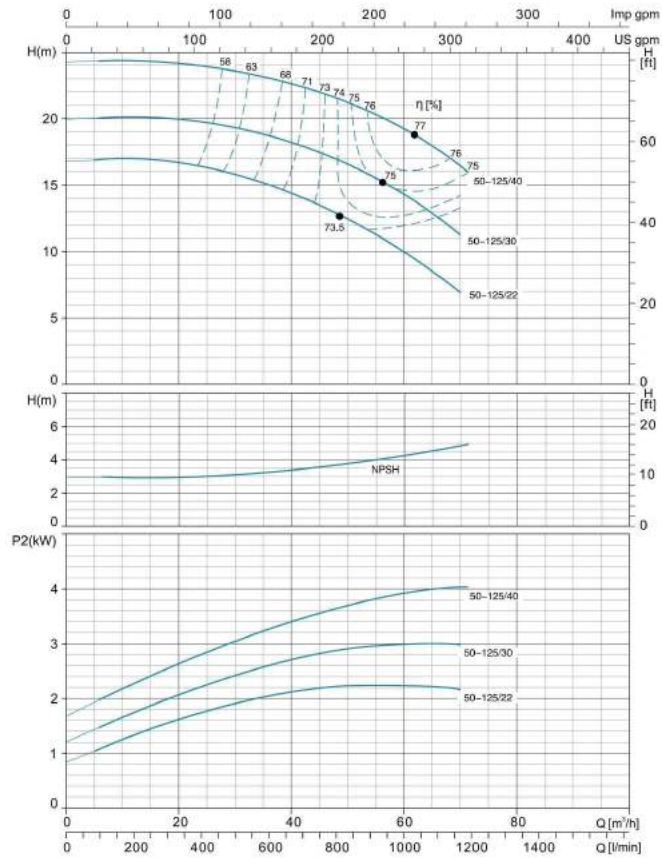
XST40-250	~2900rpm	ISO 9906 Annex A
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XST

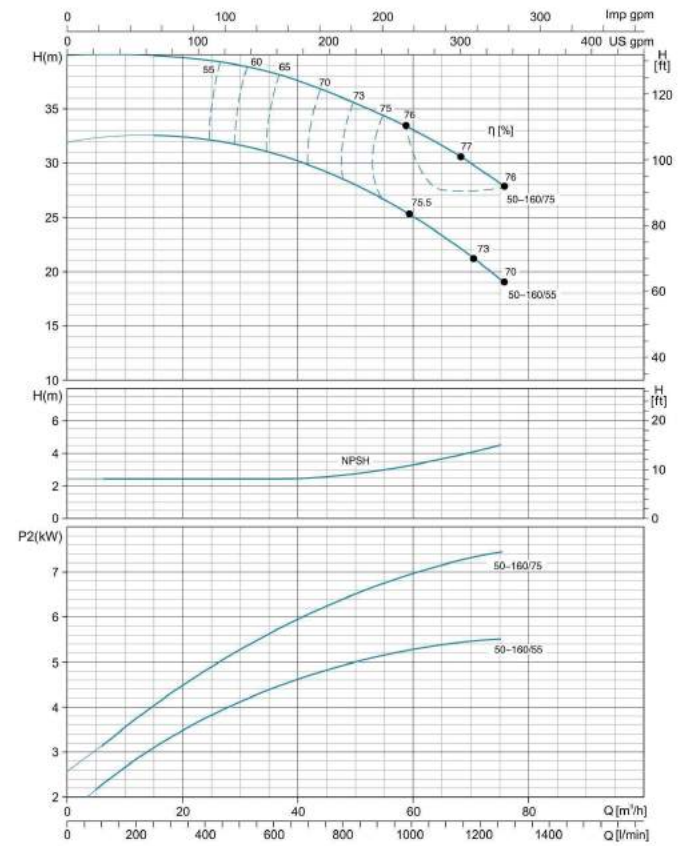
Hydraulic Performance Curves

XST(m)50-125	~2900rpm	ISO 9906 Annex A
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Hydraulic Performance Curves

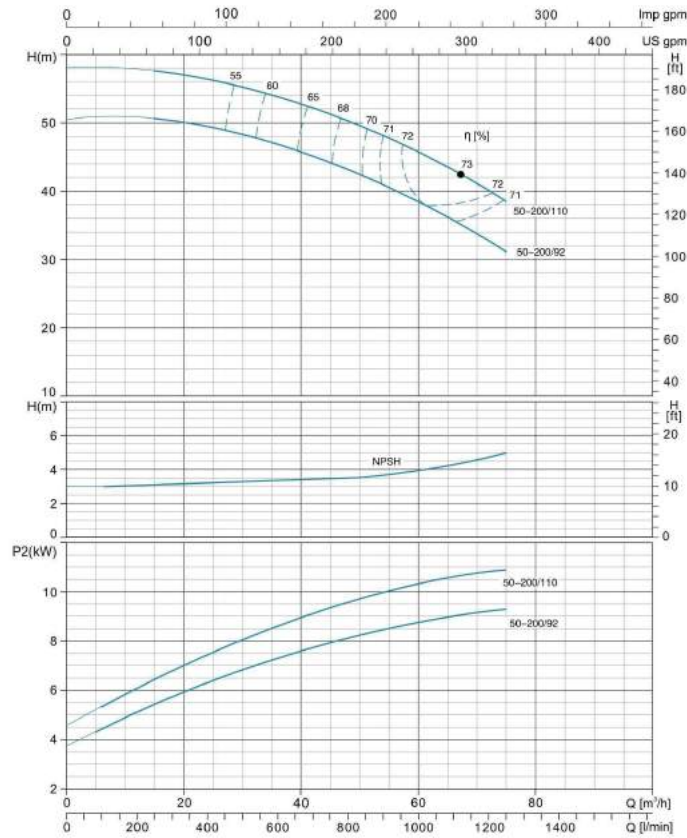
XST50-160	~2900rpm	ISO 9906 Annex A
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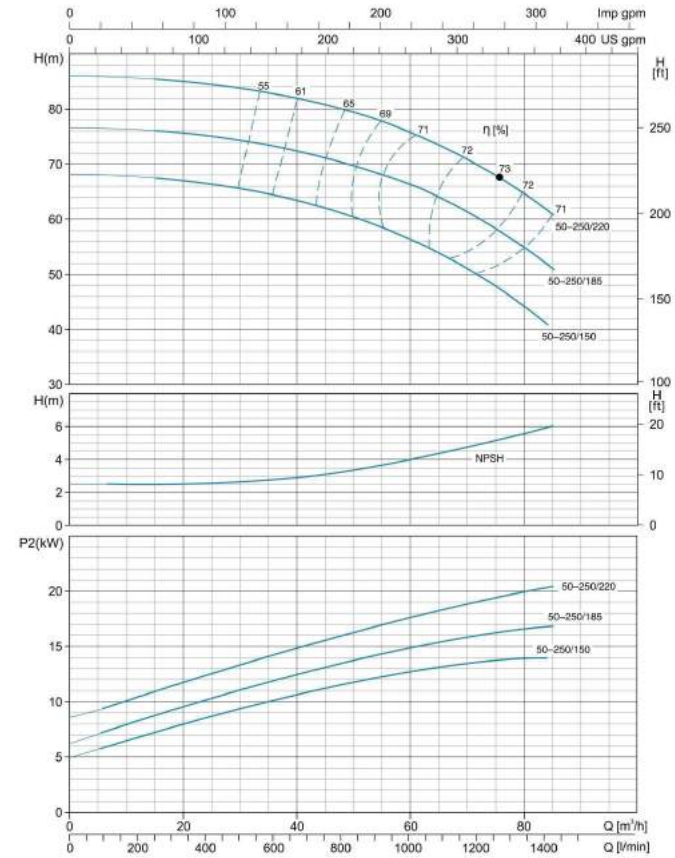
Hydraulic Performance Curves

XST50-200	~2900rpm	ISO 9906 Annex A
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Hydraulic Performance Curves

XST50-250	~2900rpm	ISO 9906 Annex A
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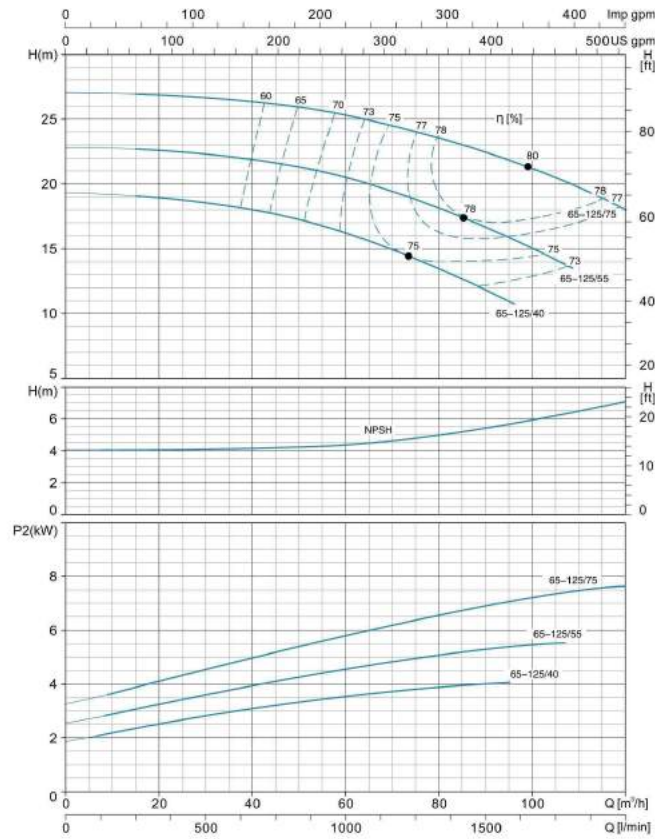


XST



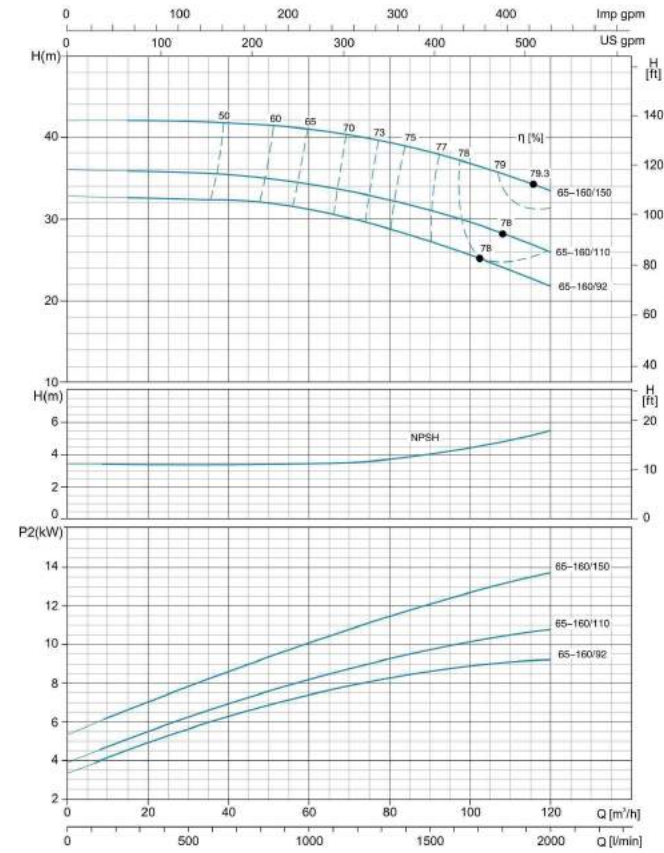
Hydraulic Performance Curves

<b>XST65-125</b>	<b>~2900rpm</b>	<b>ISO 9906 Annex A</b>
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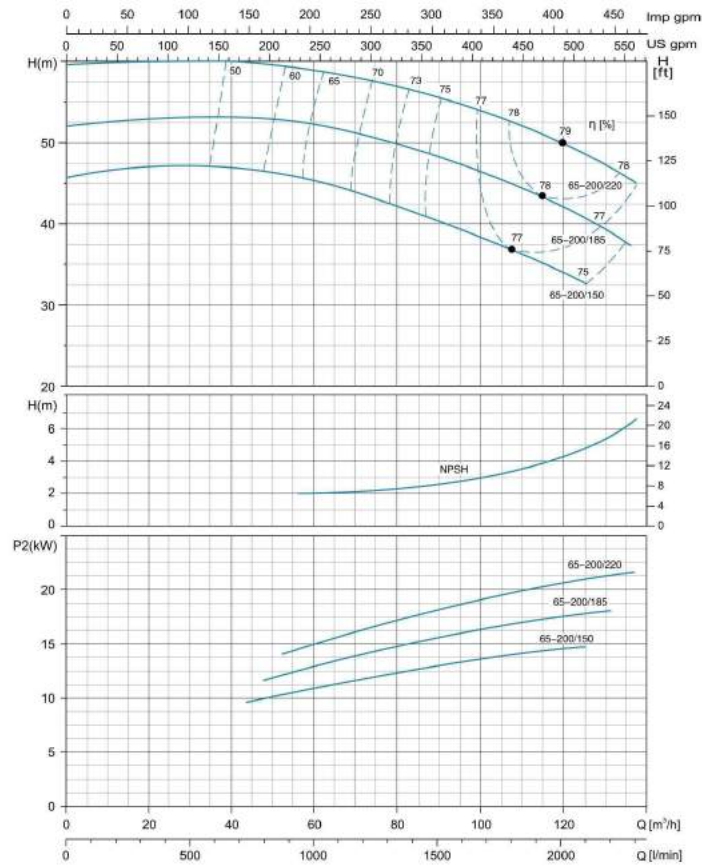
Hydraulic Performance Curves

<b>XST65-160</b>	<b>~2900rpm</b>	<b>ISO 9906 Annex A</b>
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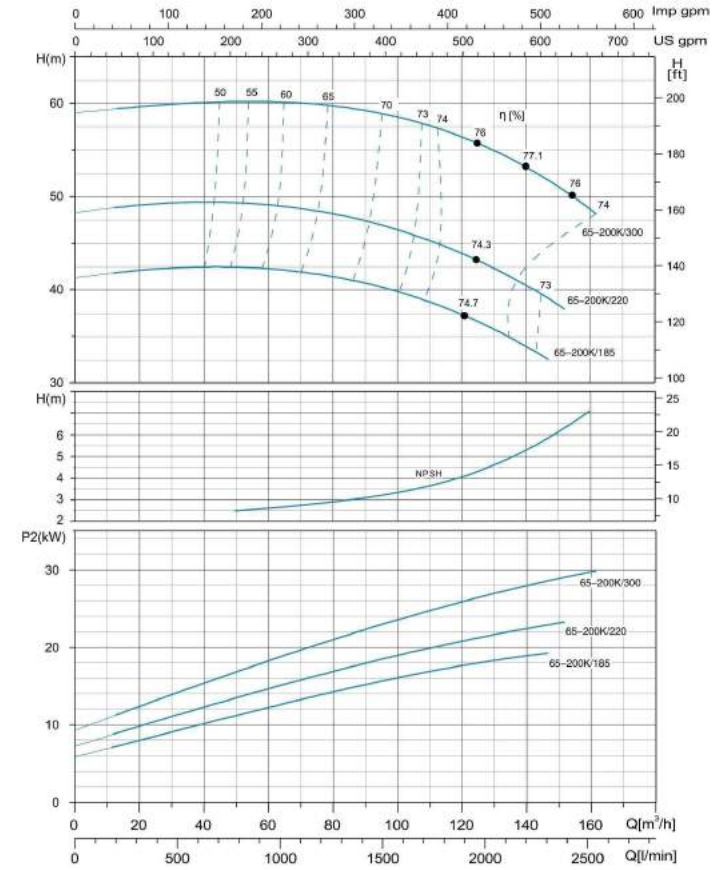
Hydraulic Performance Curves

<b>XST65-200</b>	<b>~2900rpm</b>	<b>ISO 9906 Annex A</b>
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Hydraulic Performance Curves

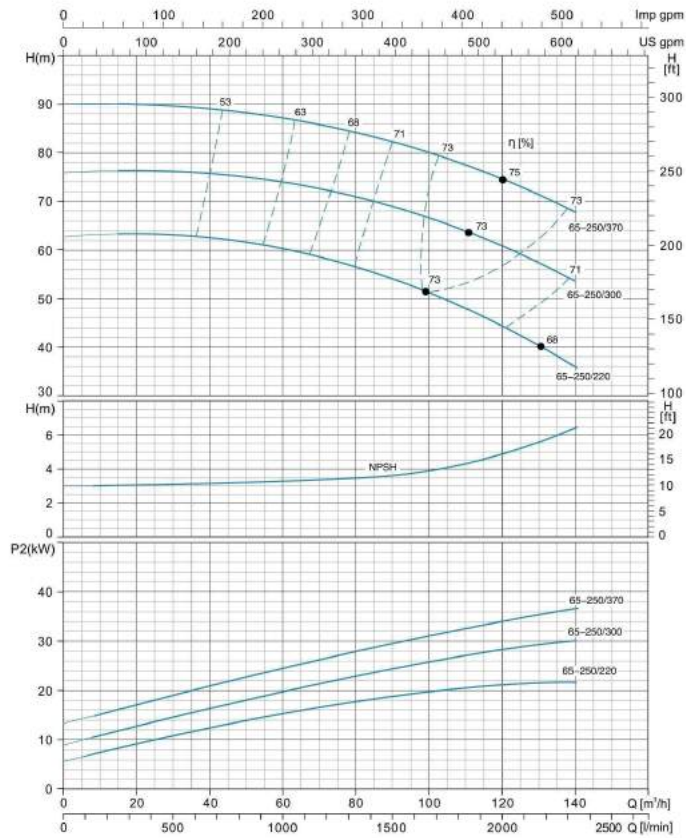
<b>XST65-200K</b>	<b>~2900rpm</b>	<b>ISO 9906 Annex A</b>
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XST

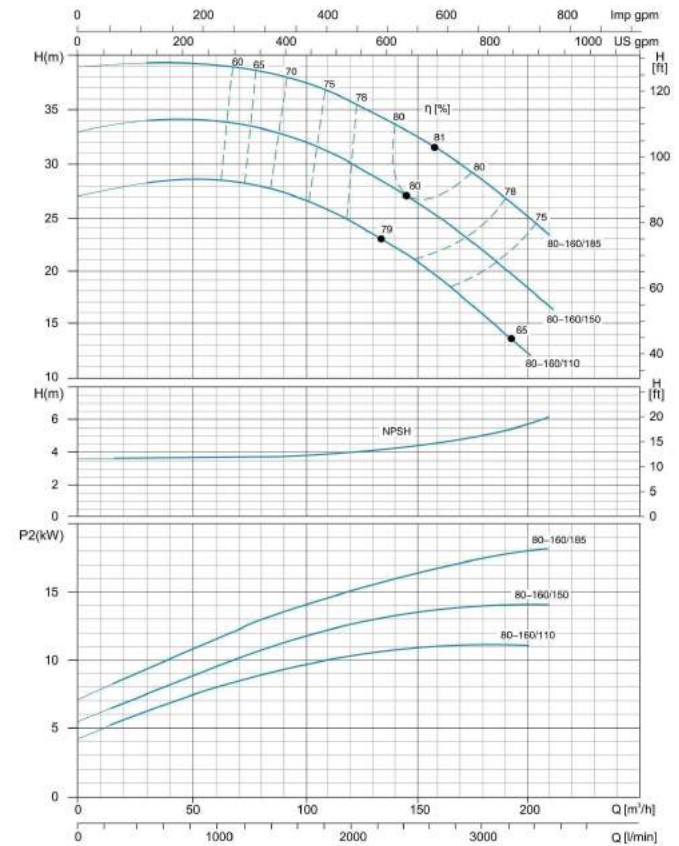
**Hydraulic Performance Curves**

<b>XST65-250</b>	<b>~2900rpm</b>	<b>ISO 9906 Annex A</b>
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**Hydraulic Performance Curves**

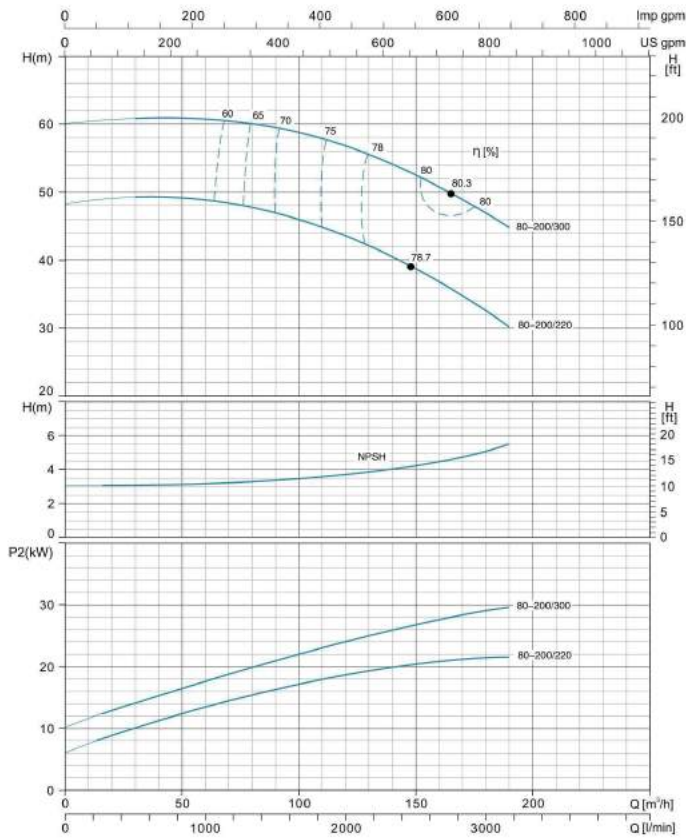
<b>XST80-160</b>	<b>~2900rpm</b>	<b>ISO 9906 Annex A</b>
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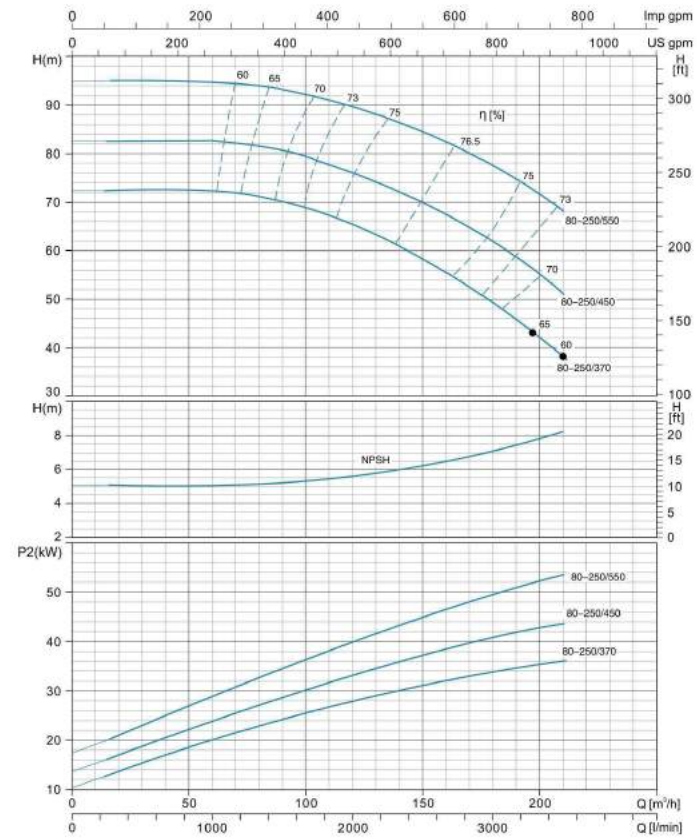
Hydraulic Performance Curves

XST80-200	~2900rpm	ISO 9906 Annex A
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Hydraulic Performance Curves

XST80-250	~2900rpm	ISO 9906 Annex A
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XST

