



Products Guide

# FH|FHC|SERIES



Horizontal Single-stage End Suction Pump

# Horizontal Single-stage End Suction Pump



## U-FLO in China

U-FLO Pumps international Co.,Ltd. is registered in the United States, Delaware, a global pump sales company in Italy, Japan, Taiwan, China manufacturing facilities are provided. The product range includes deep well submersible pumps, cast iron and stainless steel surface pumps, submersible pumps, variable frequency supply unit, etc.. Mainly used: water supply, irrigation, drainage, civil, industrial, municipal engineering, fire, sea water system and snow making system.

Since 1953, the first U-flo pump was made in Italy, U-flo a full range of pump products have continued to enhance the improvement in the design, use the best raw materials, and ensure that every U-flo pump is of the best quality.

As of the U-flo Pump product quality policy pursued by the recognition, U-flo PUMPE.S.P.A. formally adopted the ISO9001 certification. The certification is not only a U-flo product quality assurance, but also to promote U-flo pump industry towards more environmentally friendly, more energy-saving direction.

The strategy of a successful transnational corporation is based on fully understanding the company, including multi-product quality, variety of resources, staff enthusiasm and marketing network all over the world. So U-flo PUMPS.I.C.L encourages every employee to make decisive decision in the face of increasing customer satisfaction.

## FH Horizontal Centrifugal Pump

### Technical Parameter

Flow :Up to 1300 m<sup>3</sup>/h

Head :Up to 160 m

Power:Up to 130kW

Liquid Temperature: -10°C – 140°C

Working pressure: Up to 25 bar

### Applications

FH series is widely used in water treatment, industry and building, etc.

#### Water treatment

- Sea water desalinization
- RO system
- Ultra-filtration system
- Recooling system and filtration treatment
- Swimming pool and bathroom

#### Industrial applications

- Water supply and distribute in water works
- Filter and boost in water works
- Water circulation in cooling and heating system
- Automobile industry
- Boiler water supply and cooling system
- Industrial liquid deliver



### Building applications

- Liquid boost
- Domestic water boost
- Cleaning system, vehicle cleaning system
- Fire hydrant, spraying and sprinkling system
- Agricultural irrigation

### Features

- Adopt single stage single suction pump, axial inlet, radial outlet, the casing bottom is fixed with the base.
- Integrated pump shaft adopts oil lubricated guiding deep groove ball bearing.
- The pump and motor is connected with semi-flexible or flexible membrane coupling.
- Standard mechanical seal has long service life and resistant to wear.
- Adopt back-pull structure which can achieve maintenance without dismantling pump casing and pipeline.
- Wearing rings are installed on both sides of impeller, convenient to maintain and prolong the service life of pump casing and impeller.

### Material

Horizontal single stage end suction pump cast iron version – cast iron/stainless steel version

Name	C/C	C/S
pump body	JL1040 <sup>1)</sup>	
pump cover	JL1040 <sup>1)</sup>	
impeller	JL1040 <sup>1)</sup>	SS304
sealing ring	GG	SS304
shaft	C45 carbon steel	SS1.4057
sleeve	SS1.4057	SS1.4122
shaft protective sleeve	SS1.4122	
bearing bracket	JL1040 <sup>1)</sup>	

Cast iron/tin bronze version, all tin bronze version

Name	C/B	B/B
pump body	JL1040 <sup>1)</sup>	CC480K-GS <sup>3)</sup>
pump cover	JL1040 <sup>1)</sup>	CC480K-GS <sup>3)</sup>
impeller	CC480K-GS <sup>3)</sup>	CC480K-GS <sup>3)</sup>
sealing ring	GG	CC495K-GS <sup>3)</sup>
shaft	C45	SS1.4462
sleeve	SS1.4122	
shaft protective sleeve	SS1.4122	SS1.4571
bearing bracket	JL1040 <sup>1)</sup>	

Nodular cast iron/stainless steel version

Name	QS
pump body	JS1025 <sup>2)</sup>
pump cover	JS1025 <sup>2)</sup>
impeller	1.4301
sealing ring	GG
shaft	C45
sleeve	1.4122
shaft protective sleeve	1.4122
bearing bracket	JL1040 <sup>1)</sup>

304 stainless steel version - 316 stainless steel version

Name	S/S	N/N
pump body	SS304	SS316
pump cover	SS304	SS316
impeller	SS304	SS316
sealing ring	SS304	SS316
shaft	SS1.4462	SS1.4462
sleeve	SS304	SS316
shaft protective sleeve	SS304	SS316
bearing bracket	JL1040 <sup>1)</sup>	JL1040 <sup>1)</sup>

1)EN1561=GJL-250

2)EN: 1563=GJS-400-18-LT

3)EN1982

### Impeller

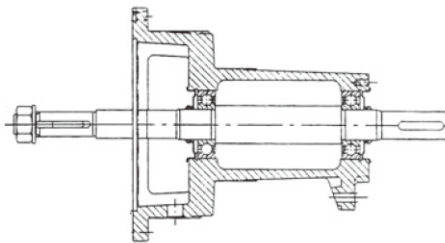
The impeller of this type of pumps is closed axial impeller. With balance pipe in its back, smooth surface and the high-precision size of machining, it can ensure a good balance, and the customers can select the operating point of the impeller according to their needs.



### Shaft seal

All FH series pumps are equipped with the mechanical seal, which is maintenance-free and non-balanced carbon/tungsten carbide, and the liquid circulation in the valve plug channel ensures the shaft seal lubrication and cooling. The shaft seal meets the standard of EN12756.

### Shaft and bearing box



The increasing Heating Intensity of shaft through heat treatment, high-precision mechanical surface and reasonable size improve its service life. The bearing bracket assembly includes two long-life grease deep groove ball bearings, and it is made of cast iron JL1040, shaft C45 steel or stainless steel 1.4057/1.4462 and other materials. With a water control ring on the shaft, it can prevent fluid from entering the bearing cavity and there is a stainless steel sleeve to protect bearings in the bearings of the gland packing seal.

### Standard scope of supply

Pump casing: DN32~DN300  
 Impeller: cast iron/ductile iron/cast steel  
 tin bronze /stainless steel304/316  
 Pump cover: cast iron/bronze/stainless steel  
 Seal: mechanical seal  
 Motor: 2/4/6 Standard Motor  
 Common Base :steel

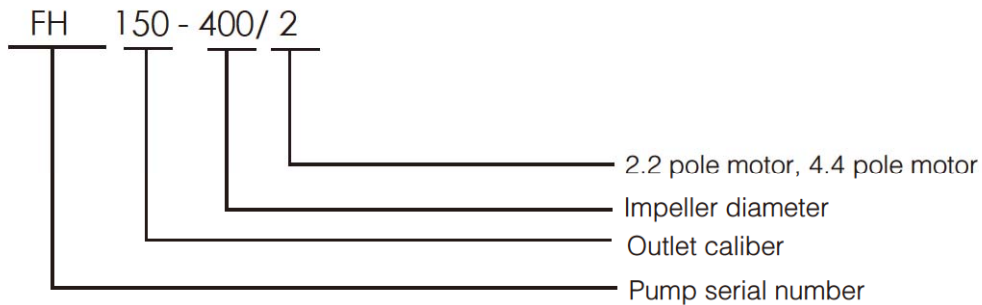
### Accessories for motor

IEC three-phase squirrel-cage motor with cooled surface.  
 Winding: up to 3.7KW:220-240V  
 up to 315KW:380-420V/660-725V  
 Installation: IMB 3 IMB35  
 Frequency: 50HZ/60HZ  
 Protection grade: F/B  
 Environmental temperature: up to +40°C

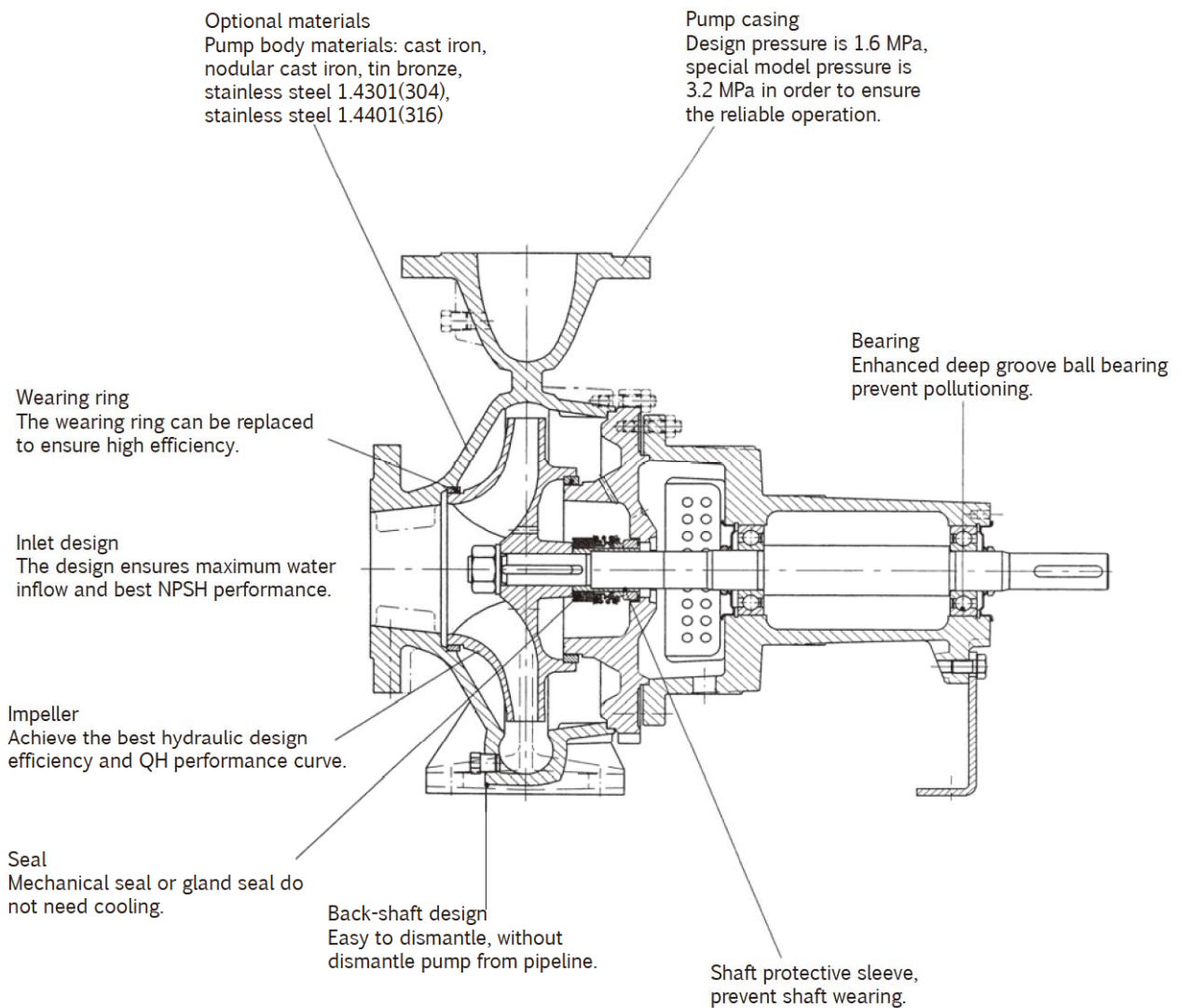
### Coupling

With/Without additional long-shaft section of the flexible coupling  
 Run mode: continuous operation S1

### Model description



### Structure description



## FHC horizontal centrifugal pump

### Technical Parameter

Flow : Up to 400 m<sup>3</sup>/h

Head : Up to 160 m

Power: Up to 130 kW

Liquid Temperature: -20°C - +140°C

Working pressure: Up to 25 bar

### Applications

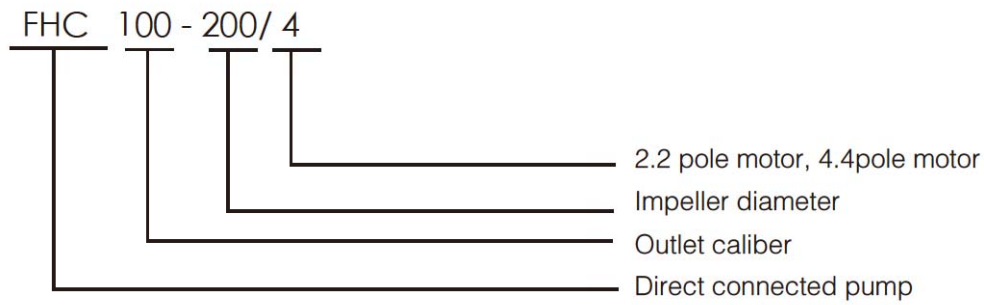
FHC is specially applies to HVAC cooling and heating water circulating system, and also is widely used to:

- 1、 Equipment matching
- 2、 High building water supply
- 3、 Industrial water supply
- 4、 Fire fighting water supply
- 5、 Engineering construction water supply
- 6、 Sewage treatment
- 7、 Agricultural irrigation
- 8、 Boiler water supply

### Features

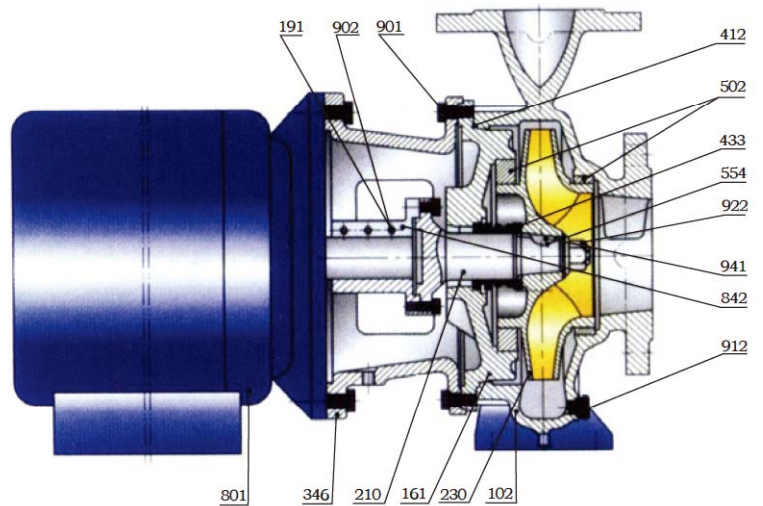
- 1、 Impeller adopts advanced hydraulic model design, has good static and dynamic balance and stable performance.
- 2、 Pump shaft and motor adopt direct connected structure, which has reliable concentricity.
- 3、 Adopt SKF bearing, small vibration and low noise.
- 4、 Closed impeller and pump casing.
- 5、 High efficiency, small in size, light in weight, easy to install and maintain.
- 6、 Adopt mechanical seal, prevent bearing damage and water leakage. Long service life.
- 7、 Quality improved structure design:
  - Adopt high efficiency volute pump casing
  - Single end mechanical seal
  - Pump and motor are direct connected by support, simple and compact.
  - Impeller balance: static balance to satisfy normal requirement, dynamic balance to meet the strict vibration control situation.

### Model description



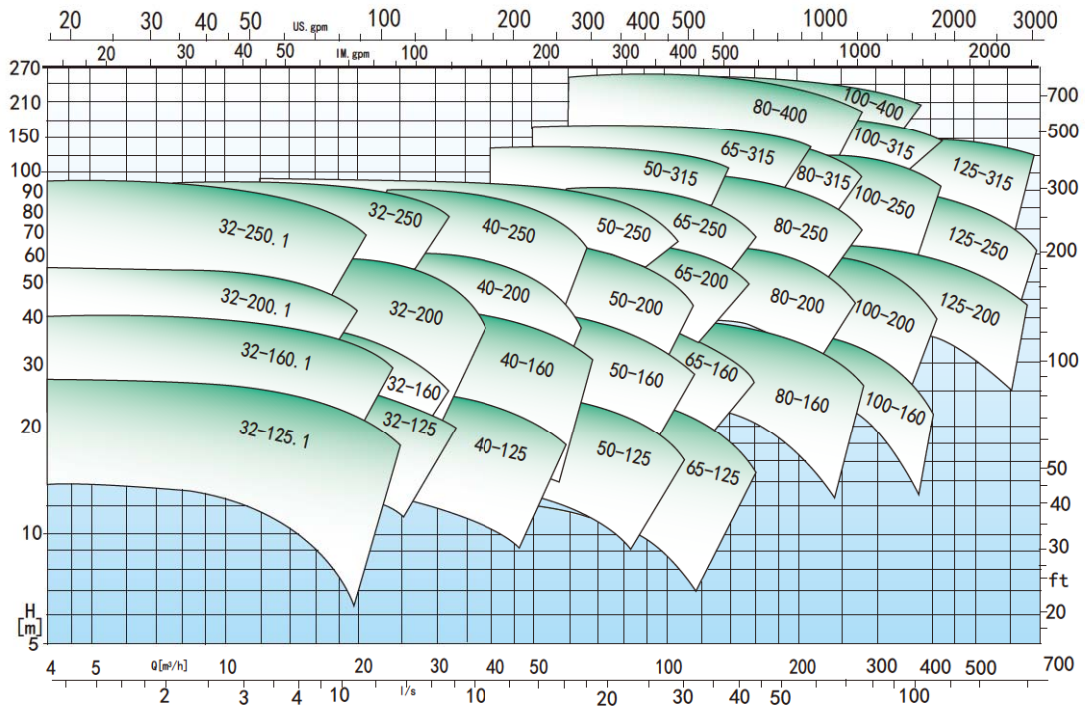
### Structure description

- 102. Pump body
- 230. Impeller
- 210. Shaft
- 554. Impeller washer
- 433. Mechanical seal
- 941. Key
- 412. O ring
- 191. Flexible washer
- 801. Motor
- 161. Pump cover
- 346. Direct connection support
- 502. Sealing ring
- 842. Motor jacket
- 901. Connection bolt
- 922. Impeller nut
- 912. Hexagonal bolt
- 902. Hex socket bolt

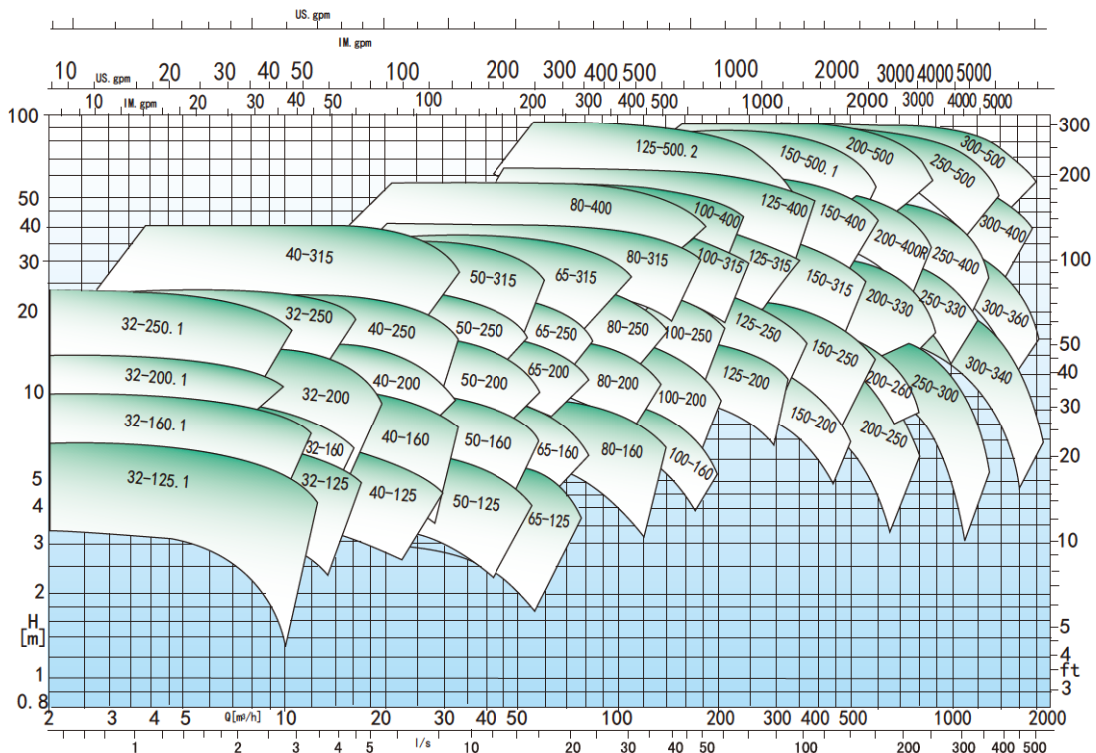


### FH/FHC Performance Curves

**n=2900 1/min**

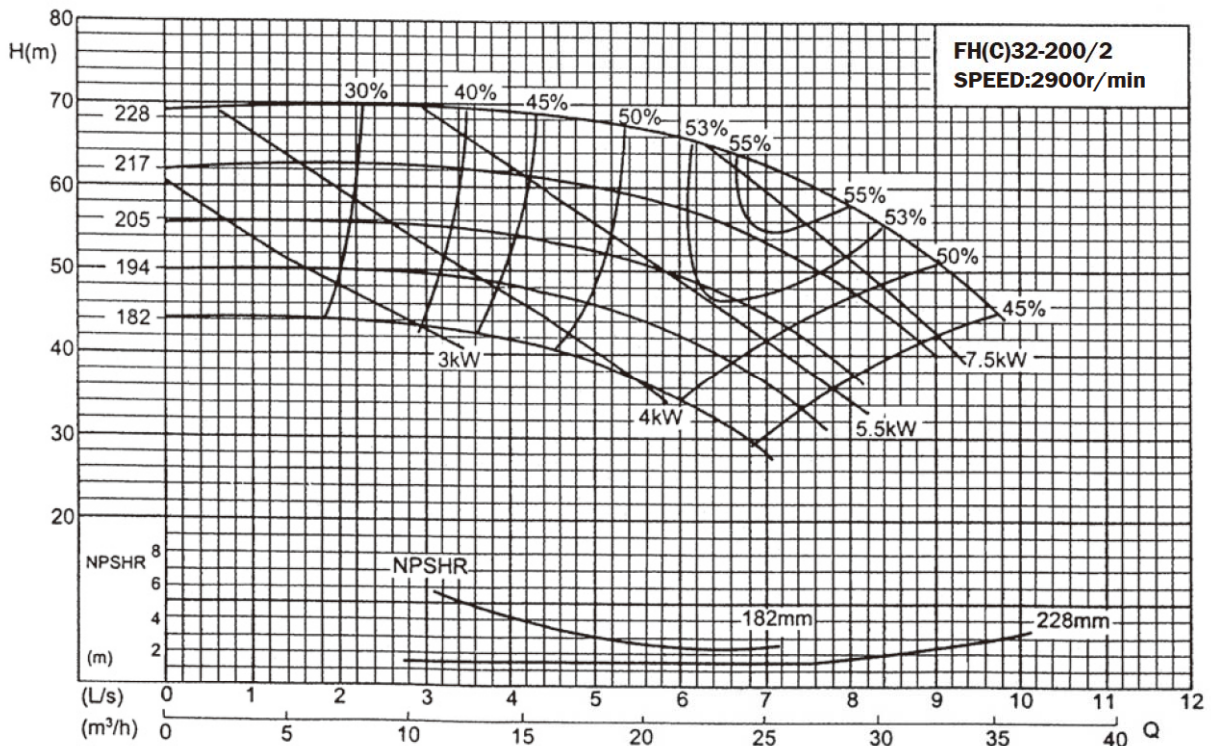
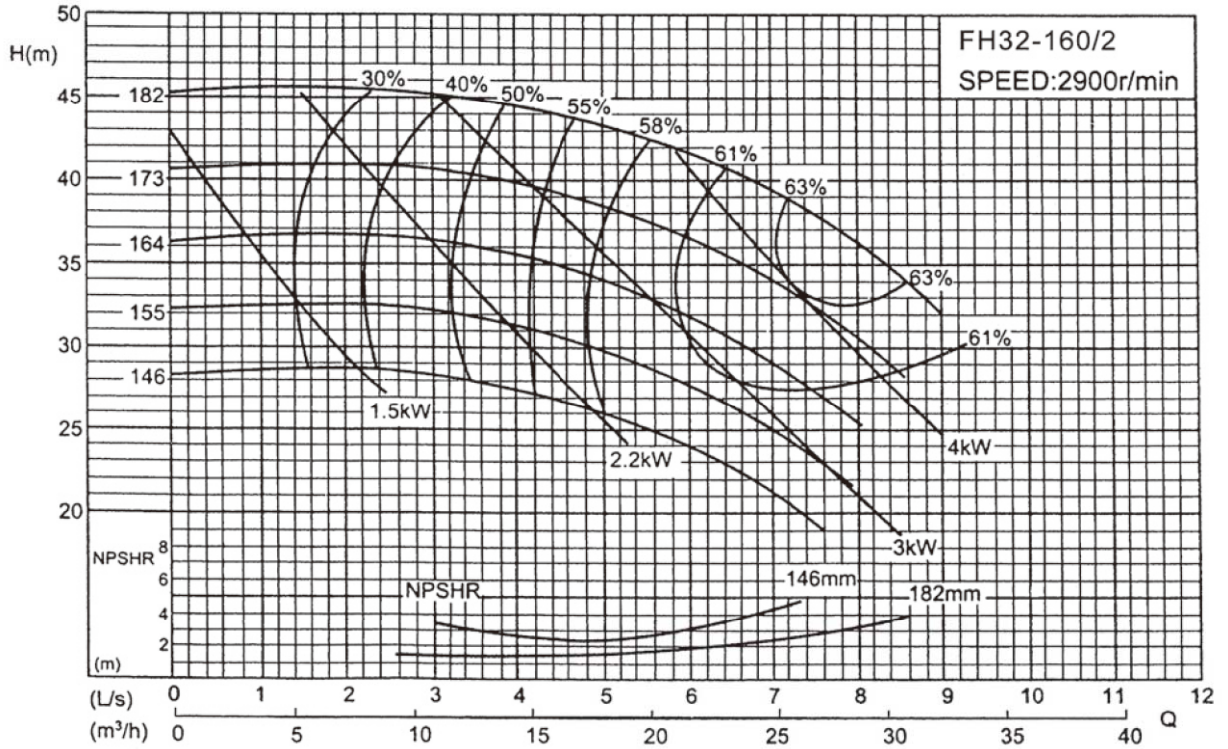


**n=1450 1/min**

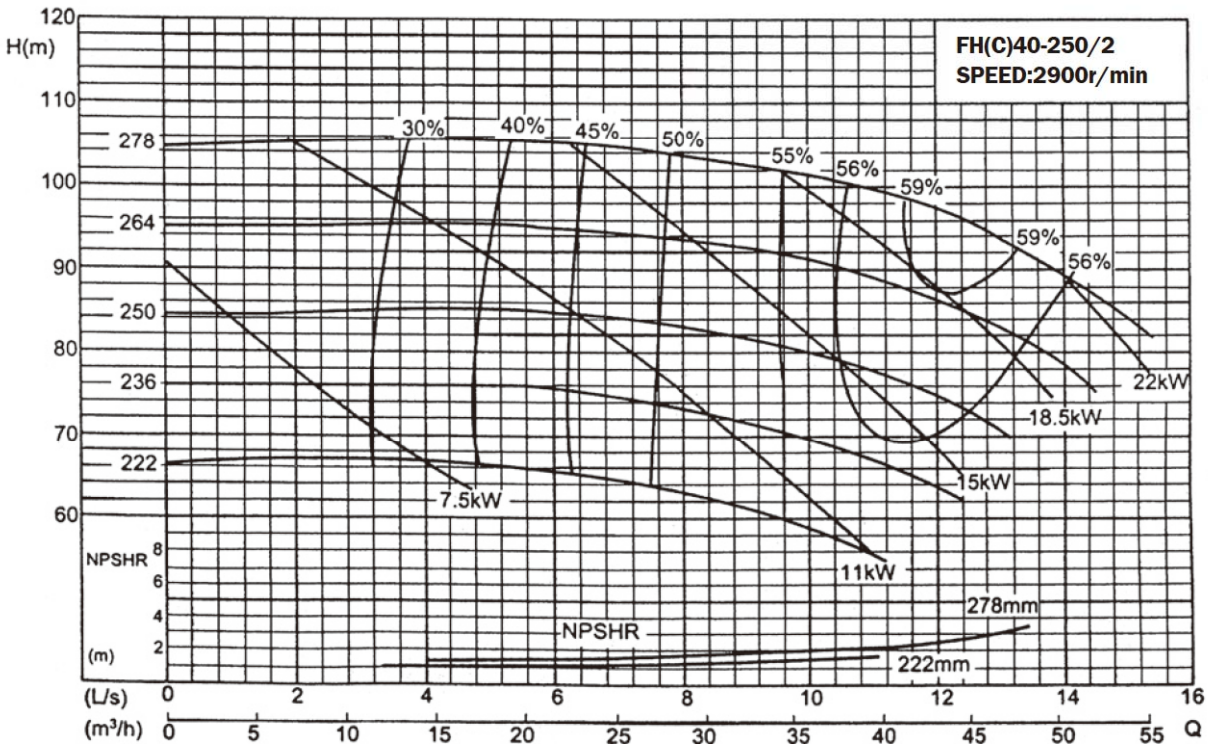
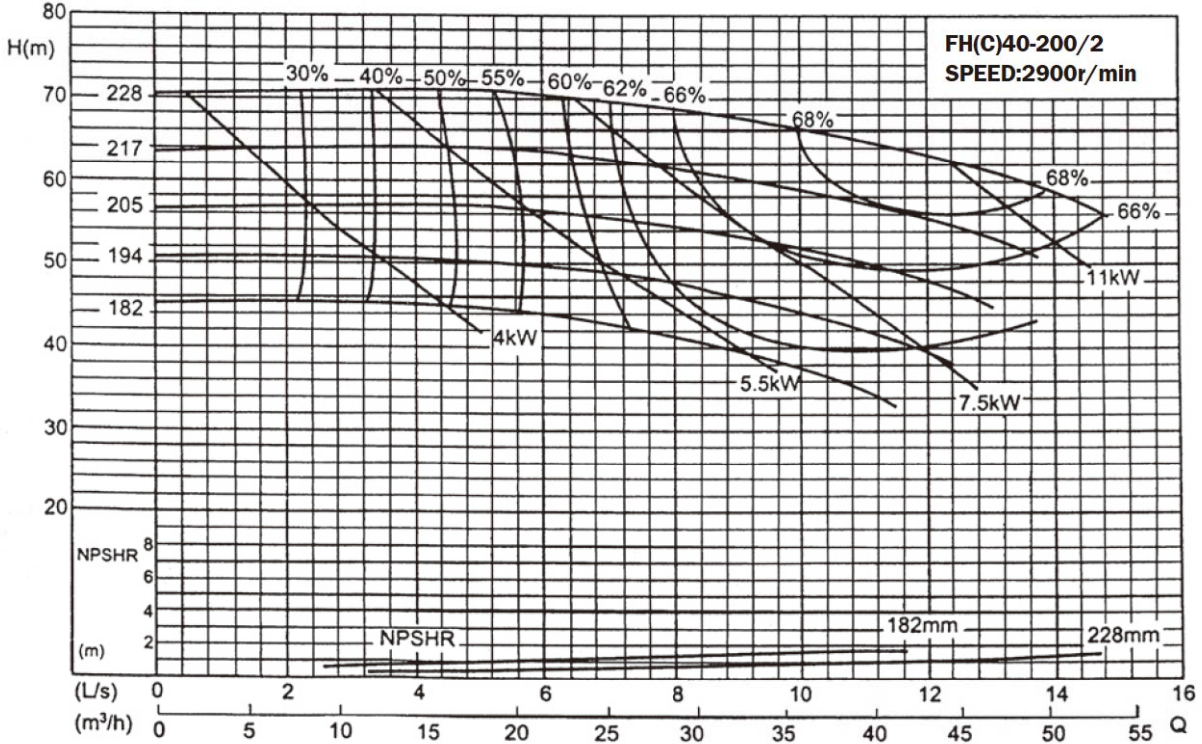


Transmission medium	Application limits	Pump casing/ Impeller					Packing seal		Shaft Seal Mechanical seal						Packing seal N <sub>a</sub> : p <sub>1</sub> ≤ 0.5bar	Mechanical seal N <sub>b</sub> : p <sub>1</sub> ≤ 0.5bar	Remarks	
		CG	CB	CS	B/B	S/S	RT-P	Graphite (3BE66-4)	U3/3Y4GG	Q10Y4GG	B01EGG	Q101MGG	10	11				12
water																		
Brackish water <sup>3)</sup>	t ≤ 25 C; P ≤ 10bar				X	X				X					B1	B10	Can choose stainless steel	
Condensation water <sup>2)</sup>	t ≤ 120 C; P ≤ 10bar	X				X						X			G1	G11		
Condensation water	t ≤ 120 C; P ≤ 10bar					X	X					X			C1	C10		
Cooling water <sup>1)</sup>	t ≤ 60 C <sup>7)</sup> ; P ≤ 10bar	X				X					X				G1	G11	opencycle	
Cooling water (With coolant) <sup>5)</sup>	t ≤ 120 C; P ≤ 10bar	X				X					X				G1	G11		
Reservoir water <sup>1)</sup>	t ≤ 40 C; P ≤ 10bar		X			X					X				B1	B10	Solid particle density reach us	
Drinking water <sup>1)</sup>	t ≤ 60 C <sup>7)</sup> ; P ≤ 10bar		X			X					X				M1	M10		
Fire water <sup>1)</sup>	t ≤ 60 C <sup>7)</sup> ; P ≤ 10bar		X			X					X				M1	M10	Need to meet the standard Vds reach U-flö	
Desalted water	t ≤ 120 C; P ≤ 10bar					X	X						X		C1	C11	The requirements of purity can not meet	
Boiler feedwater <sup>1)</sup>	t ≤ 120 C; P ≤ 10bar	X				X						X			G1	G11		
Hot water <sup>2)</sup>	t ≤ 120 C; P ≤ 10bar	X				X						X			B1	B10		
Hot water <sup>2)</sup>	t ≤ 140 C; P ≤ 10bar	X					X	X							G3	G6	circulating pumps	
Part of the desalted water	t ≤ 60 C <sup>8)</sup> ; P ≤ 10bar		X			X							X		M1	M11		
Pure water <sup>4)</sup>	t ≤ 60 C <sup>8)</sup> ; P ≤ 10bar	X				X							X		G1	G11		
Slightly polluted water <sup>1)</sup>	t ≥ -30 C; P ≤ 10bar t ≤ 110 C	X				X					X				G1	G11		
Sea water <sup>3)</sup>	t ≤ 60 C <sup>7)</sup> ; P ≤ 10bar	X				X					X				G11	G10	Can choose stainless steel	
Raw water <sup>1)</sup>	t ≤ 25 C; P ≤ 10bar				X	X					X				B1	B10		
Swimming pool water( fresh water ) <sup>1)</sup>	t ≤ 60 C <sup>7)</sup> ; P ≤ 10bar	X				X					X				G1	G10	meet the DIN19463 standards	
Swimming pool water (seawater) <sup>1)</sup>	t ≤ 60 C; P ≤ 10bar	X				X					X				G1	G10	If ts+25 stainless steel can be used	
Hot water <sup>2)</sup>	t ≤ 110 C; P ≤ 10bar	X				X					X				G1	G10		
Coolant,cooling brine																		
Cooling brine PH7.5	t ≤ -30 C; P ≤ 10bar t ≤ 25 C	X				X						X			G1	G11		
Containing coolant waterPH≥7.5 <sup>1) 5)</sup>	t ≤ -30 C; P ≤ 10bar t ≤ 110 C	X				X						X			G1	G11		
Oil/emulsions																		
Diesel fuel ,Petrols EL	t ≤ 60 C; P ≤ 10bar			X								X			S10		If no special requirements, gray iron can be used	
Lubricant ,turbine oil, be not suitable for SDF(nonflammable )	t ≤ 80 C; P ≤ 10bar			X								X			S10		If no special requirements, gray iron can be used	
Isotherms of both neat oil and oil	t ≤ 60 C; P ≤ 10bar	X									X				G1	G9		
Drilling/grinding emulsion	t ≤ 60 C; P ≤ 10bar	X									X				G1	G9		
Abluent																		
Waste water	t ≤ 90 C; P ≤ 10bar	X				X									G1	G7	Q1Q1EGG	
Brewery Industry																		
Mashes	t ≤ 100 C; P ≤ 10bar	X										X			G12			
Malt wort	t ≤ 100 C; P ≤ 10bar	X										X			G12		Pump do turn,need to set up tandem double seal	

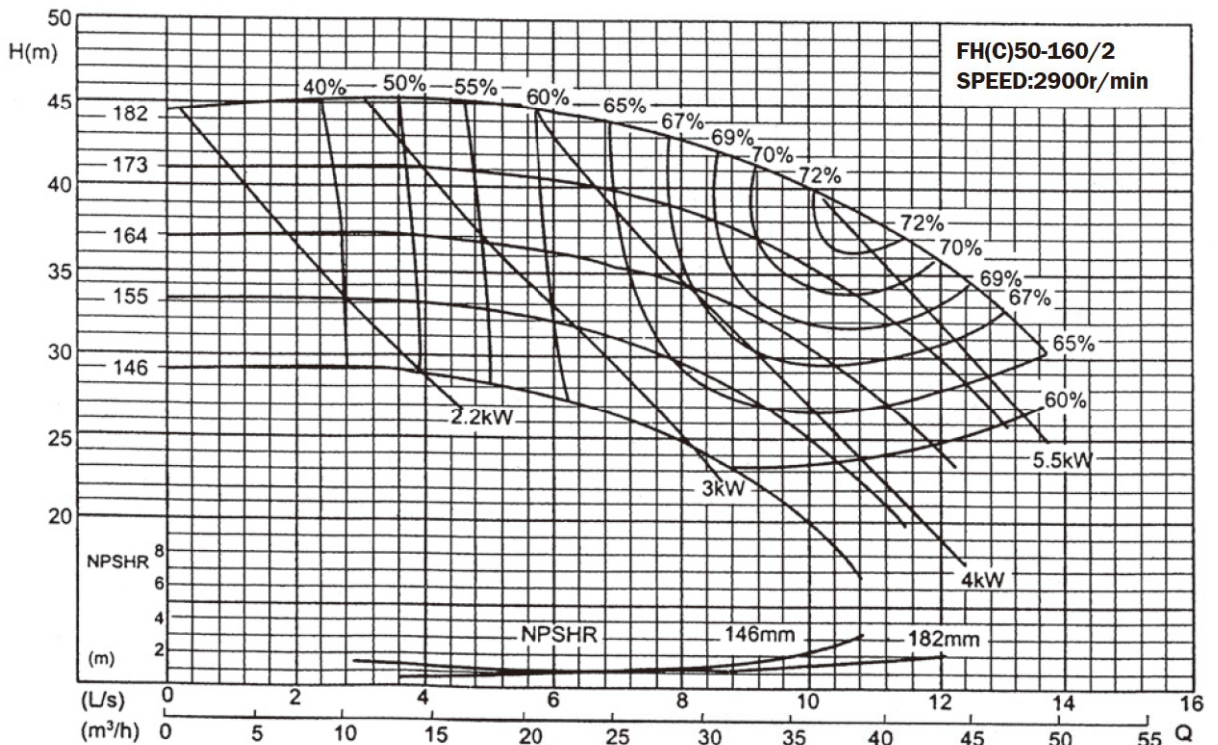
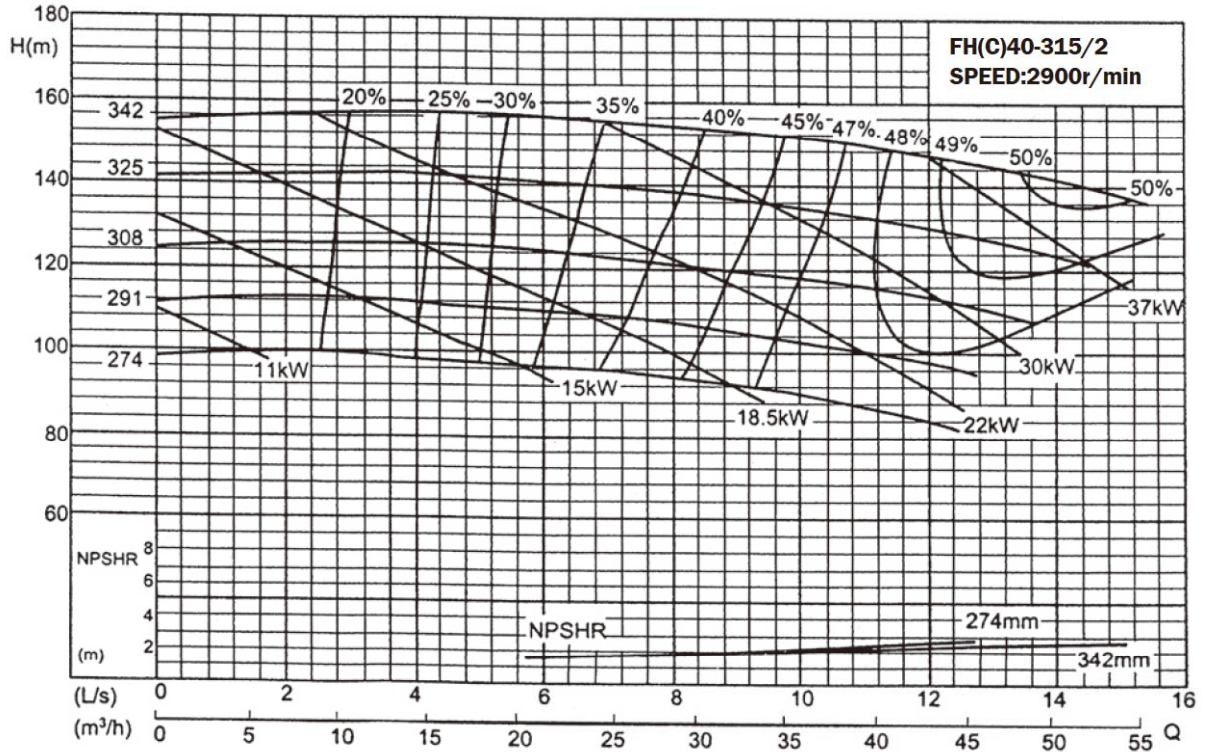
### Performance Curves



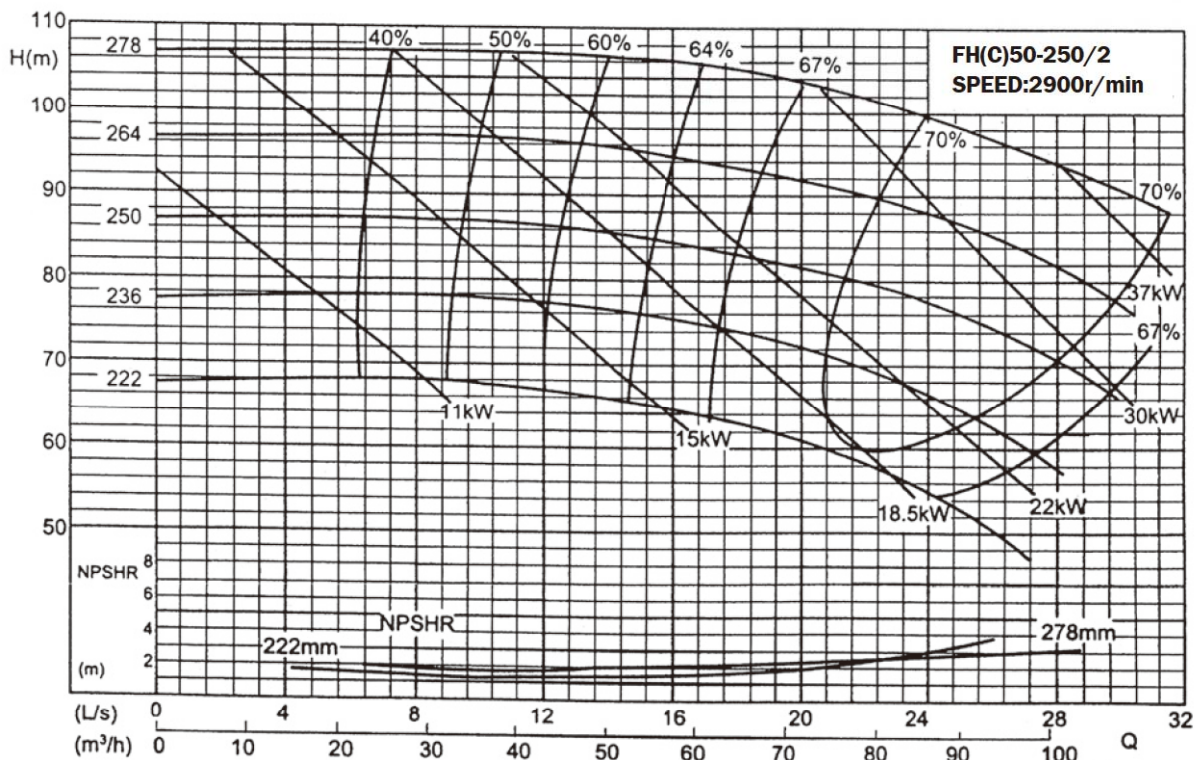
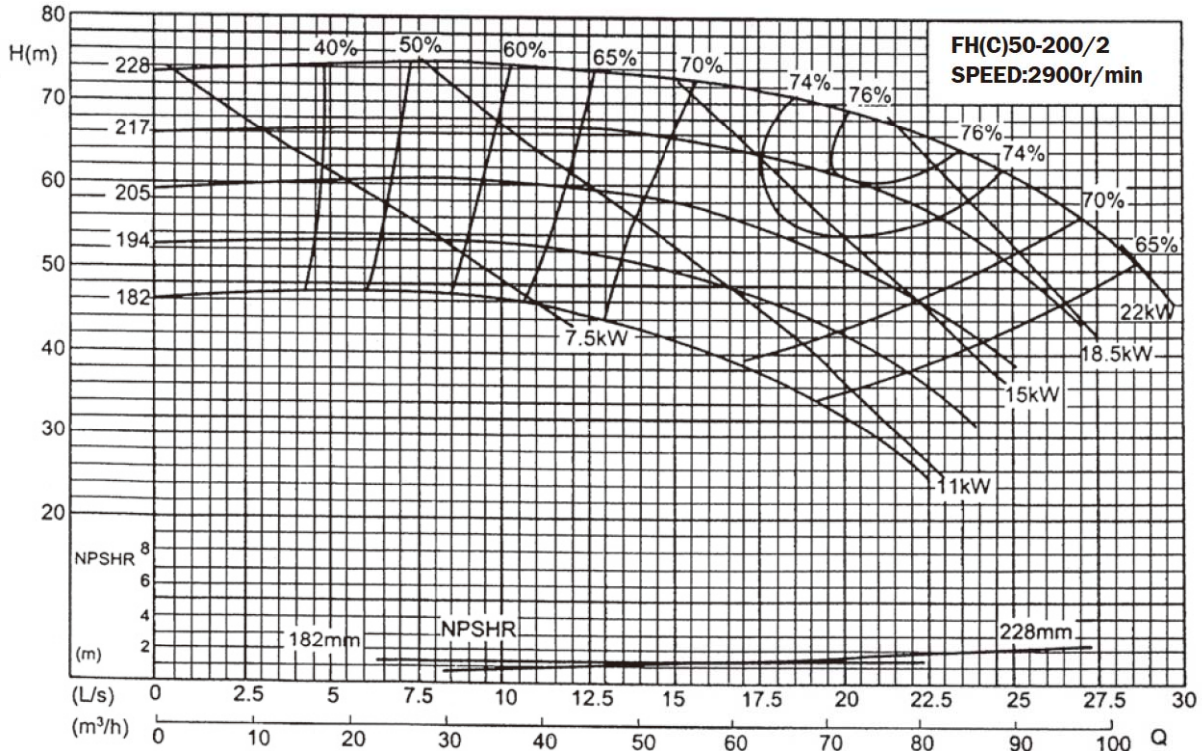
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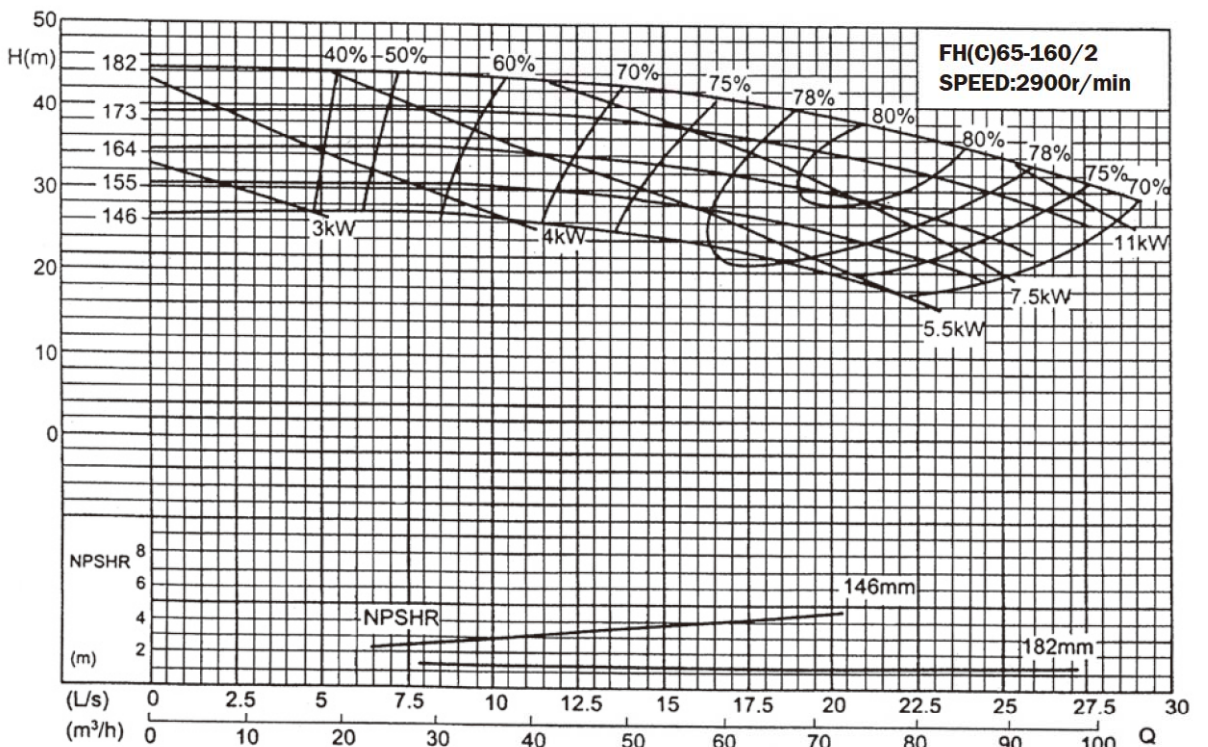
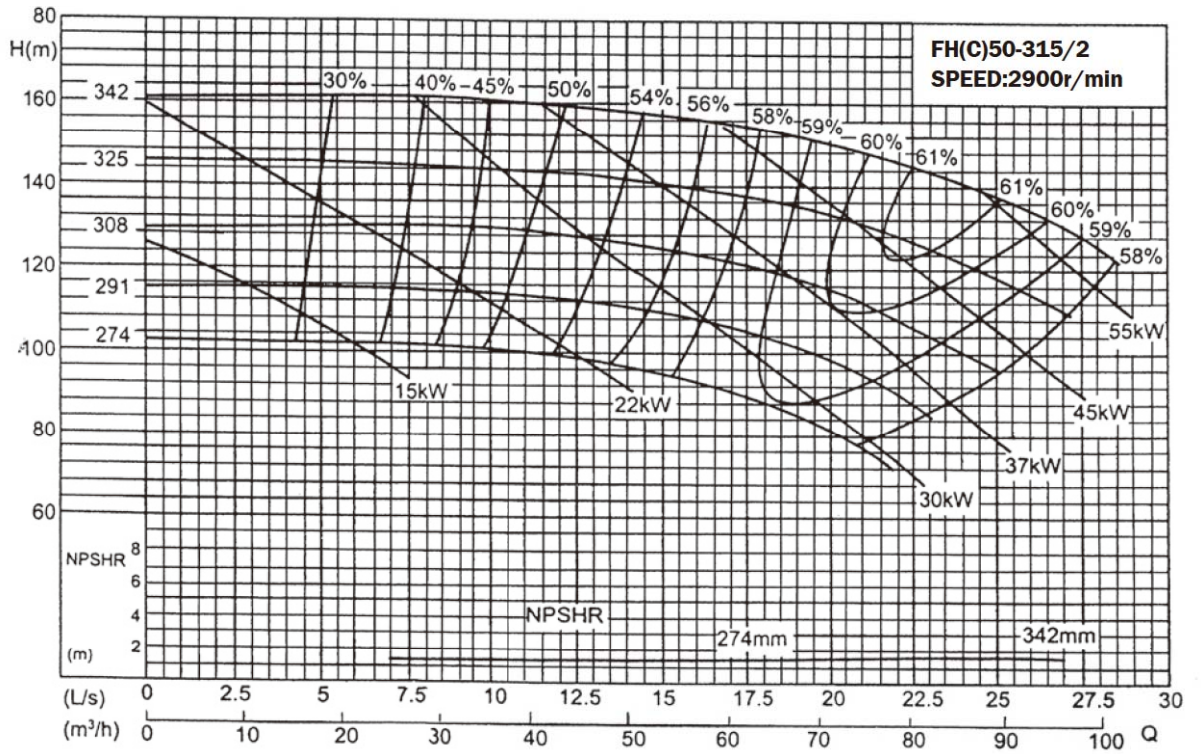
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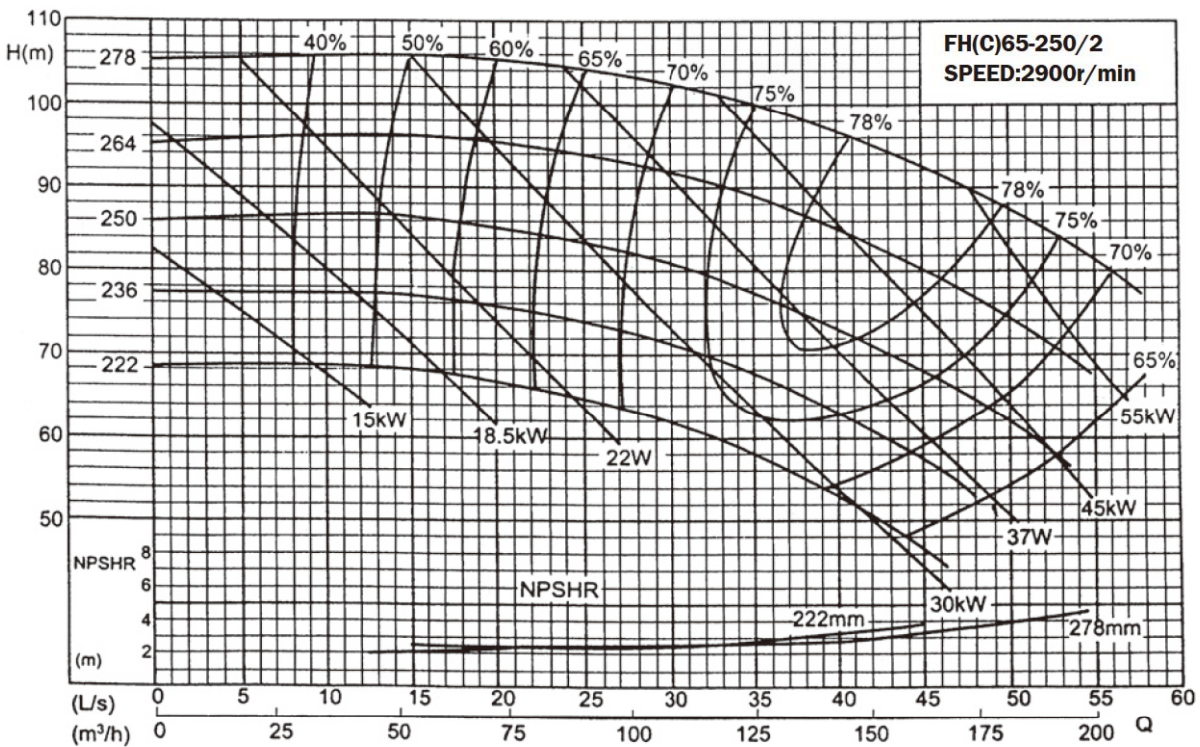
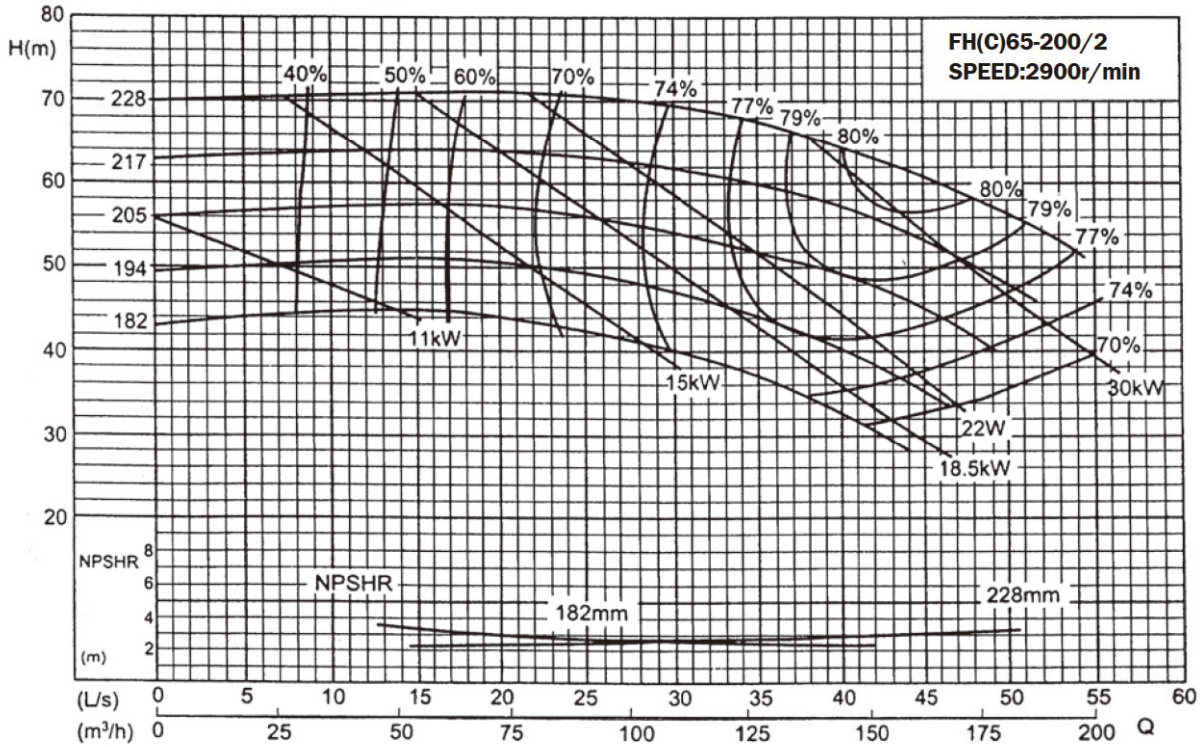
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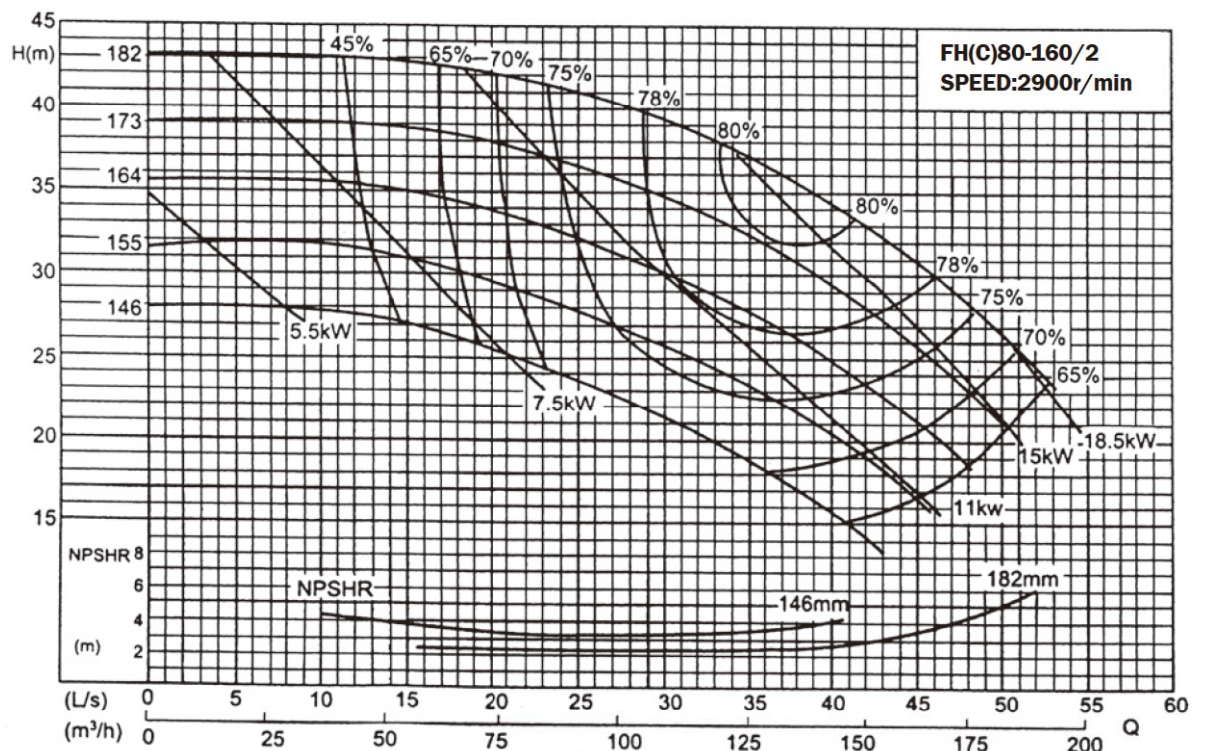
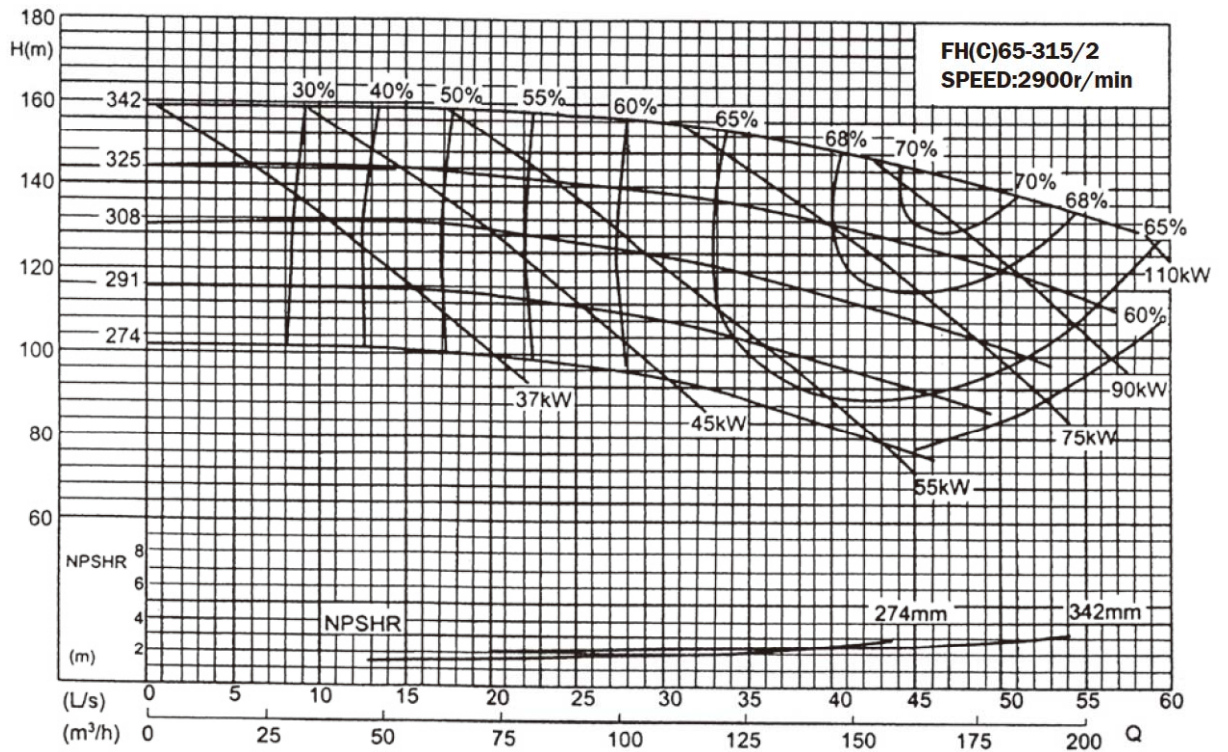
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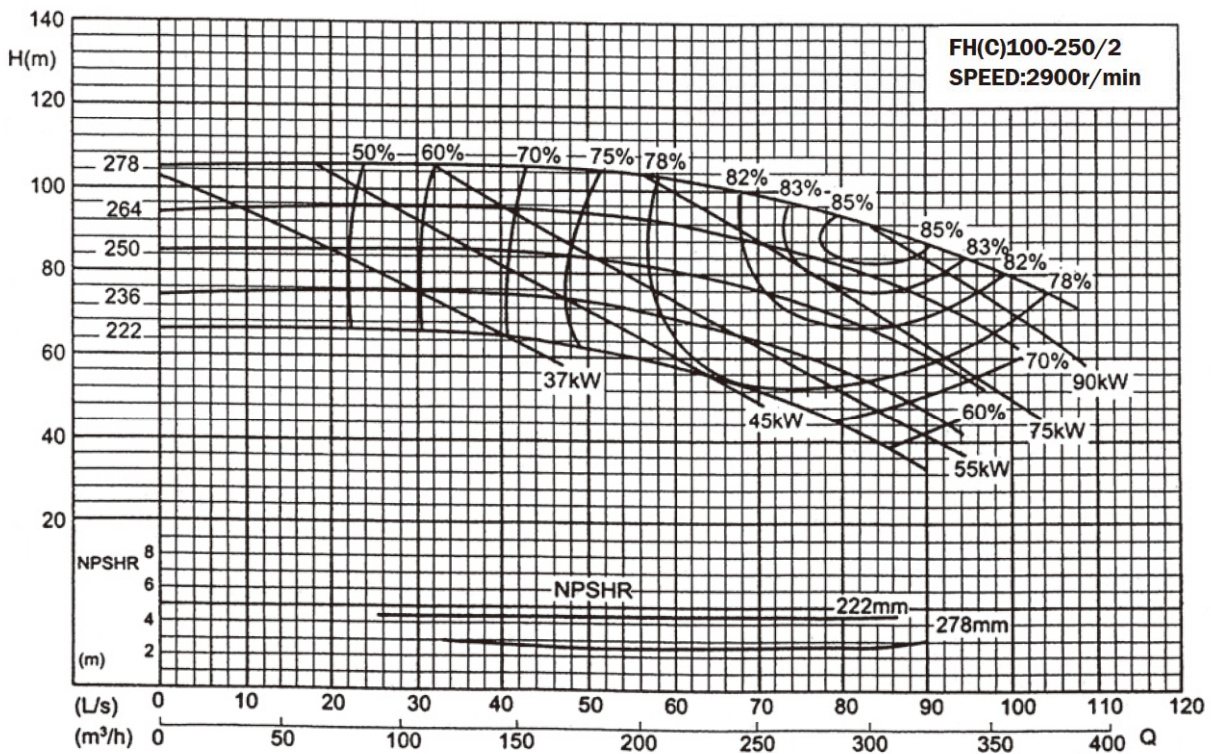
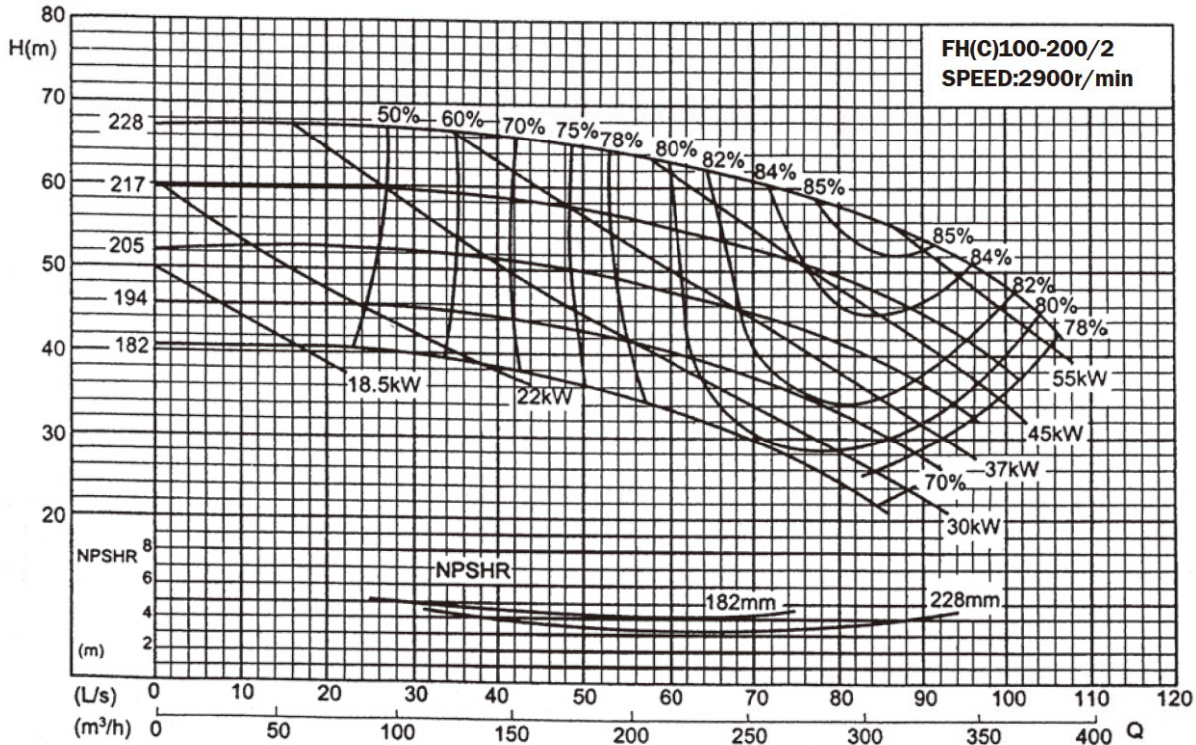
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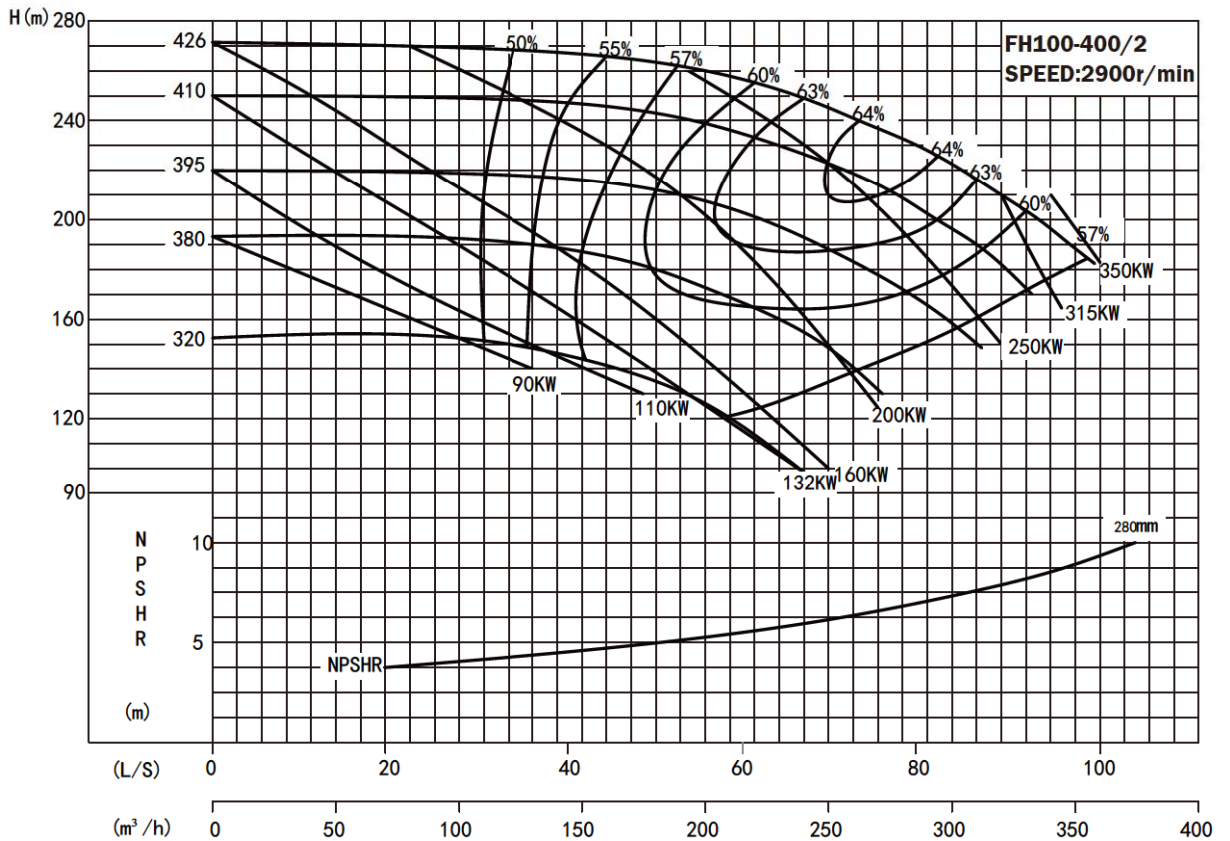
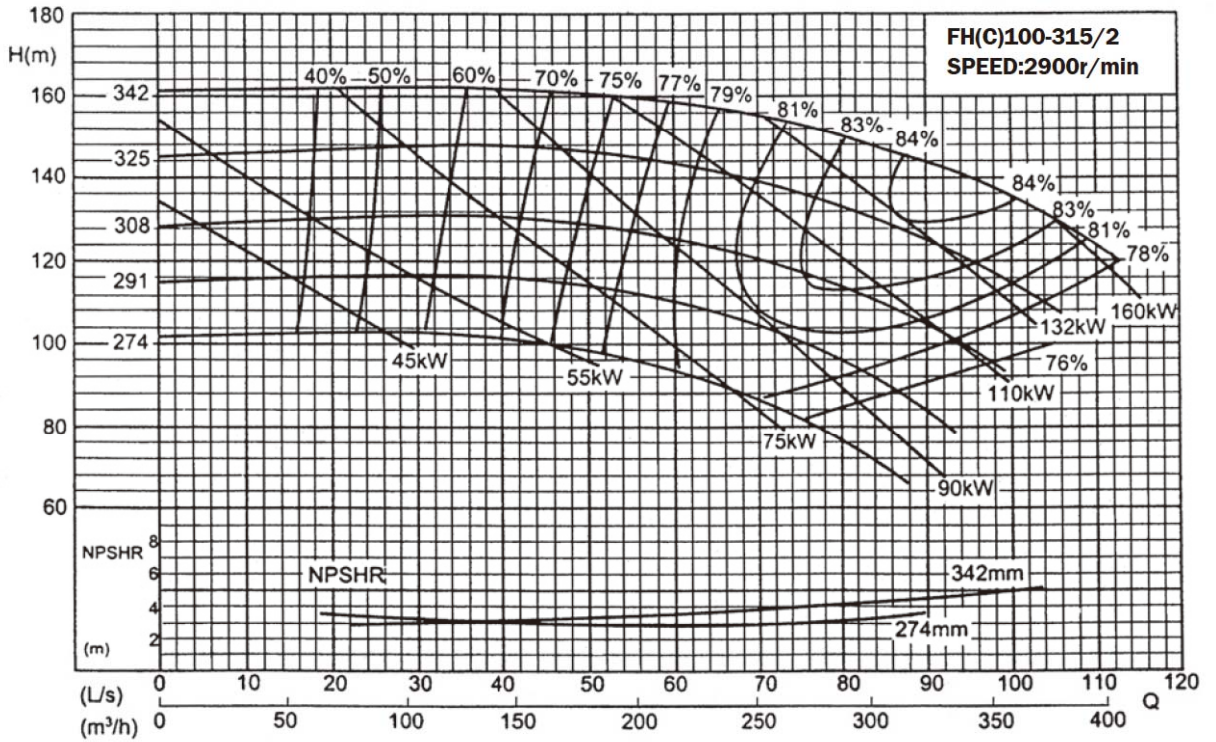
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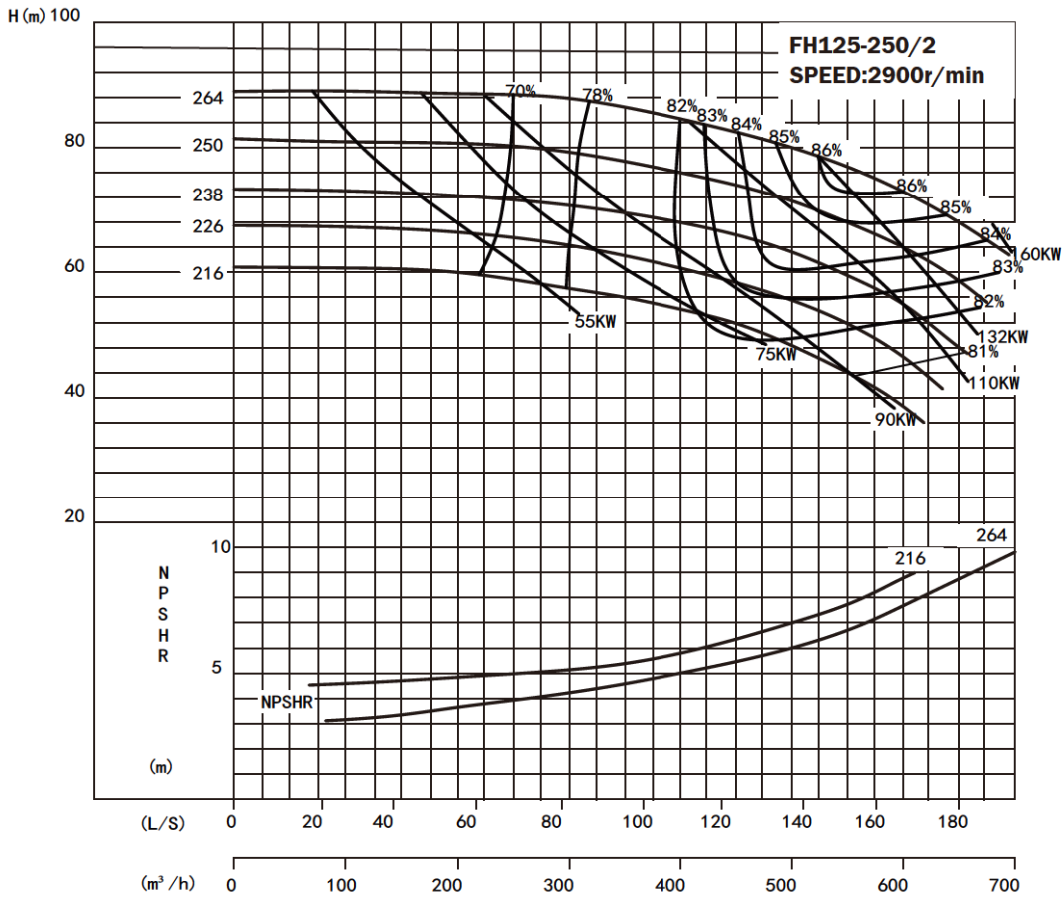
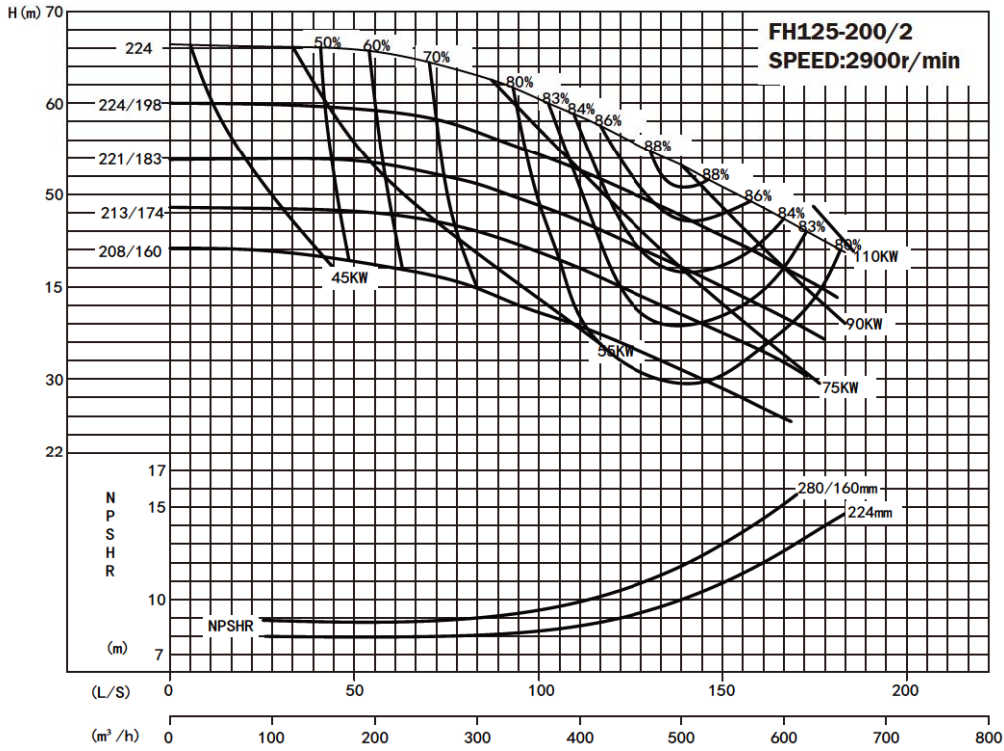
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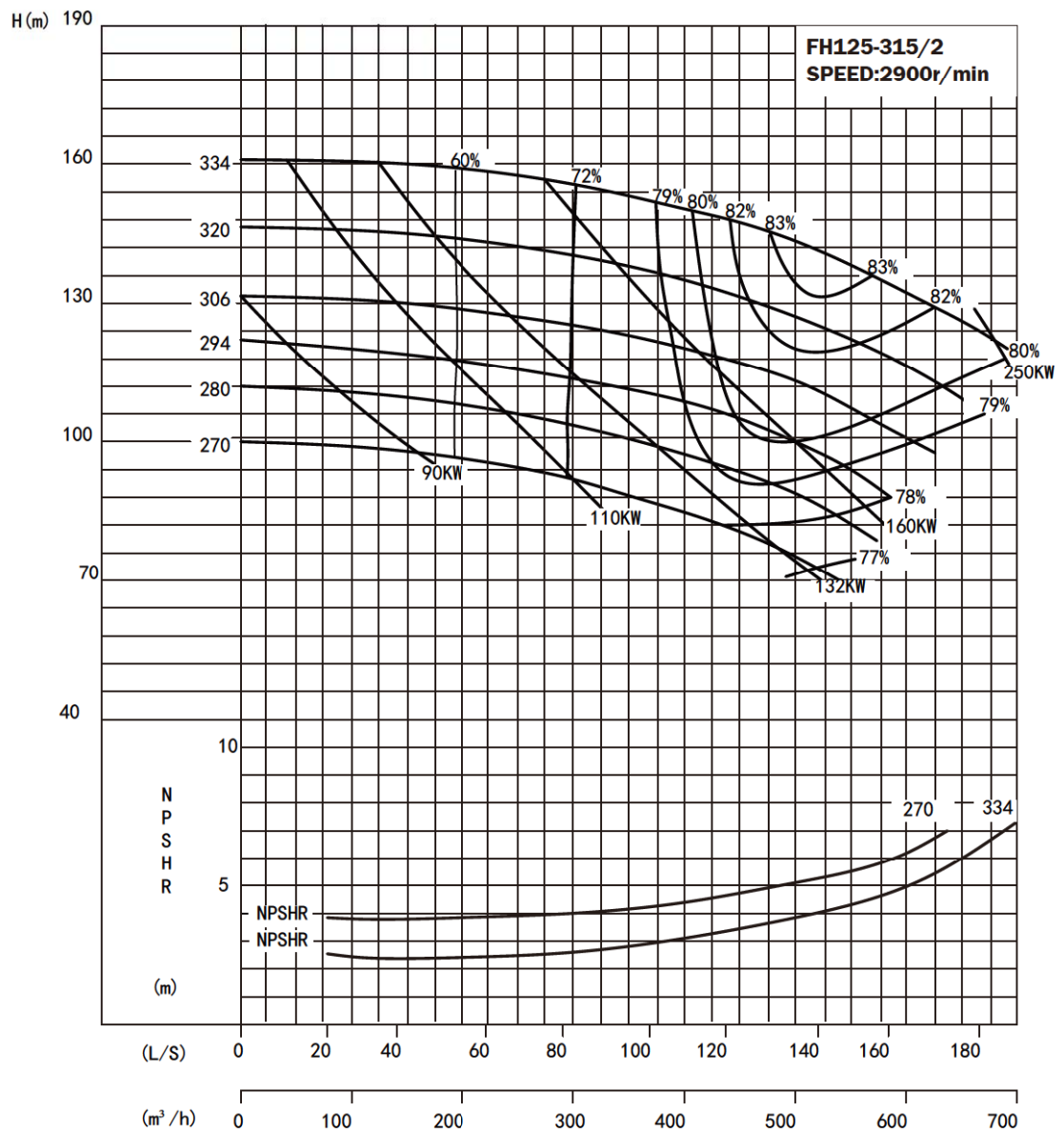
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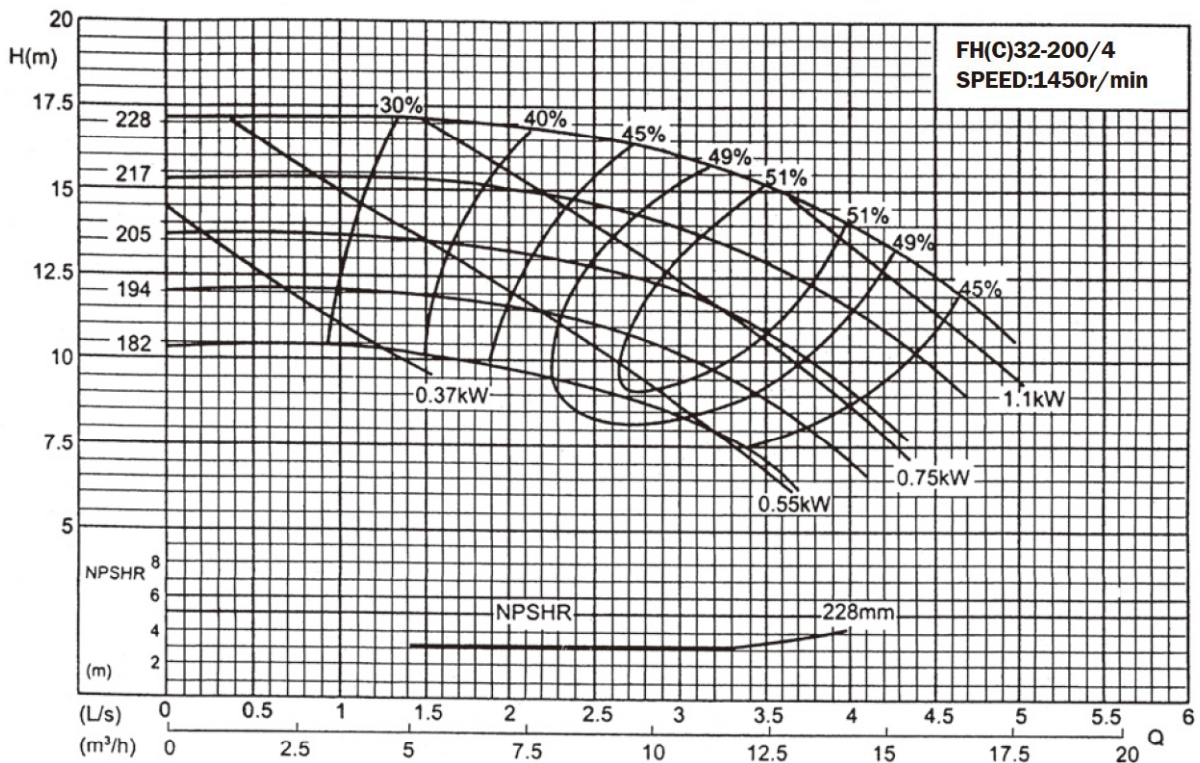
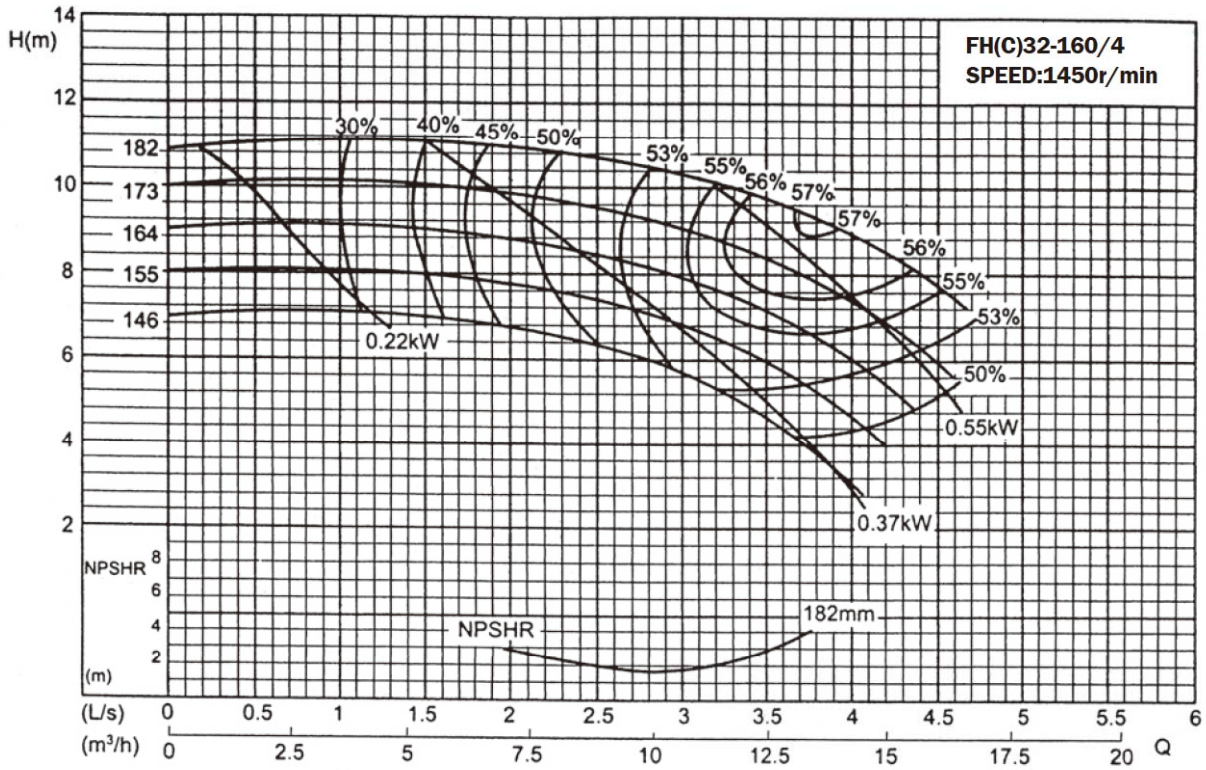
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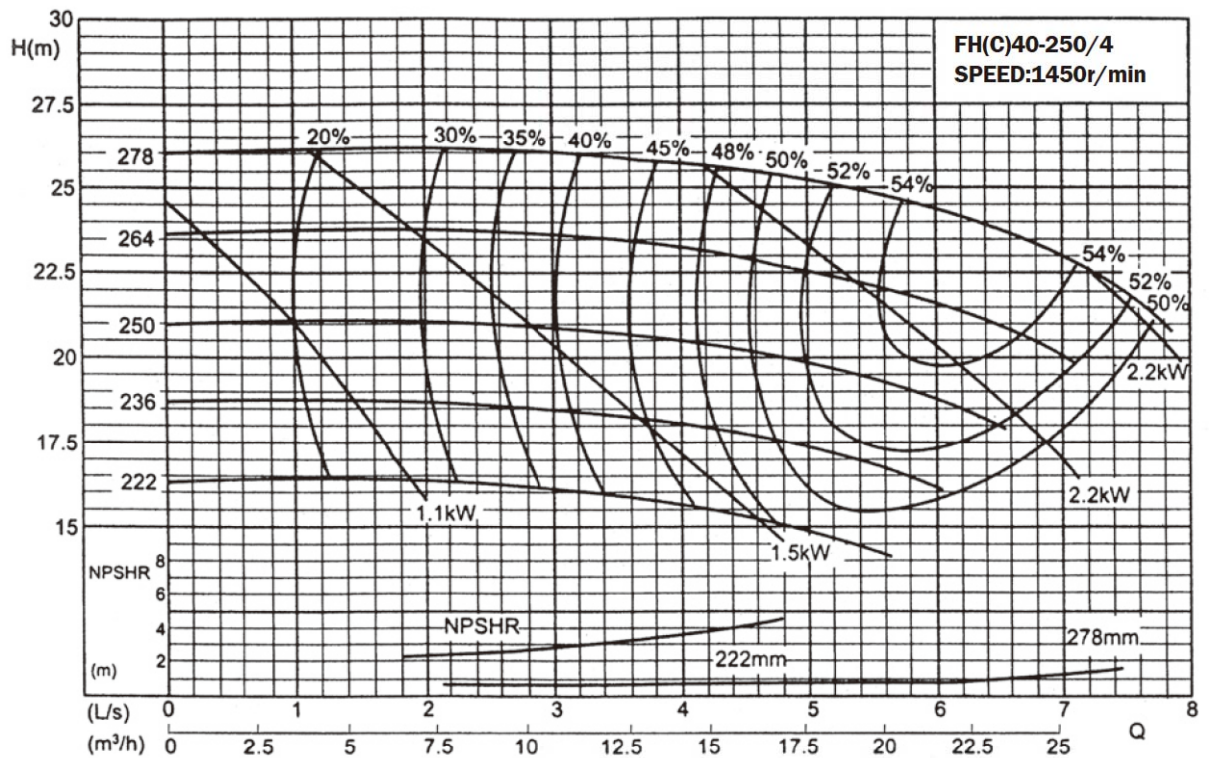
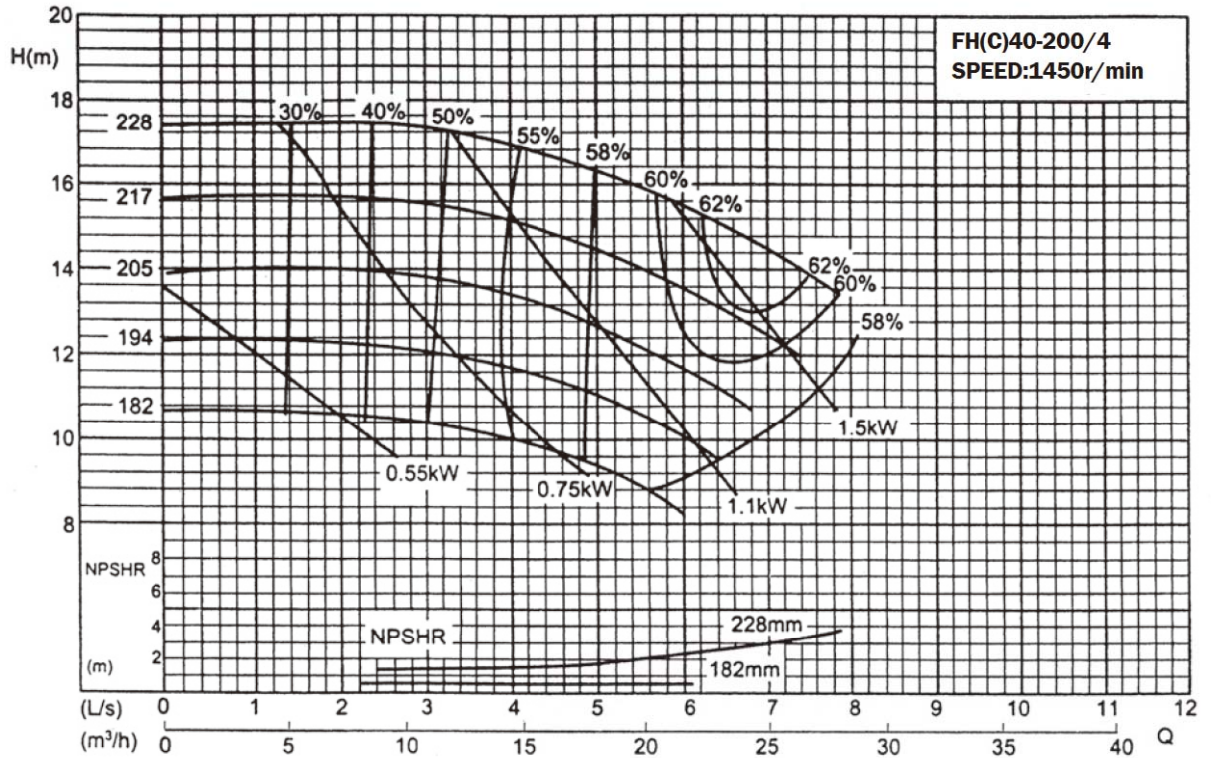
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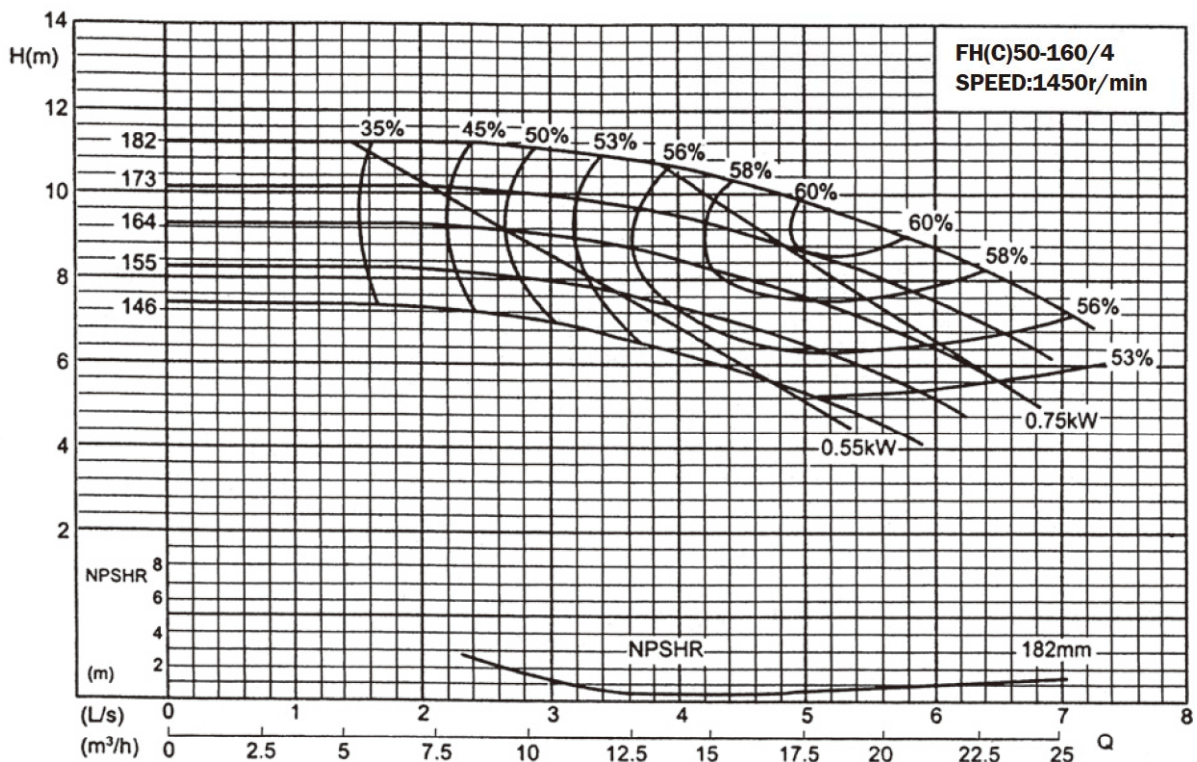
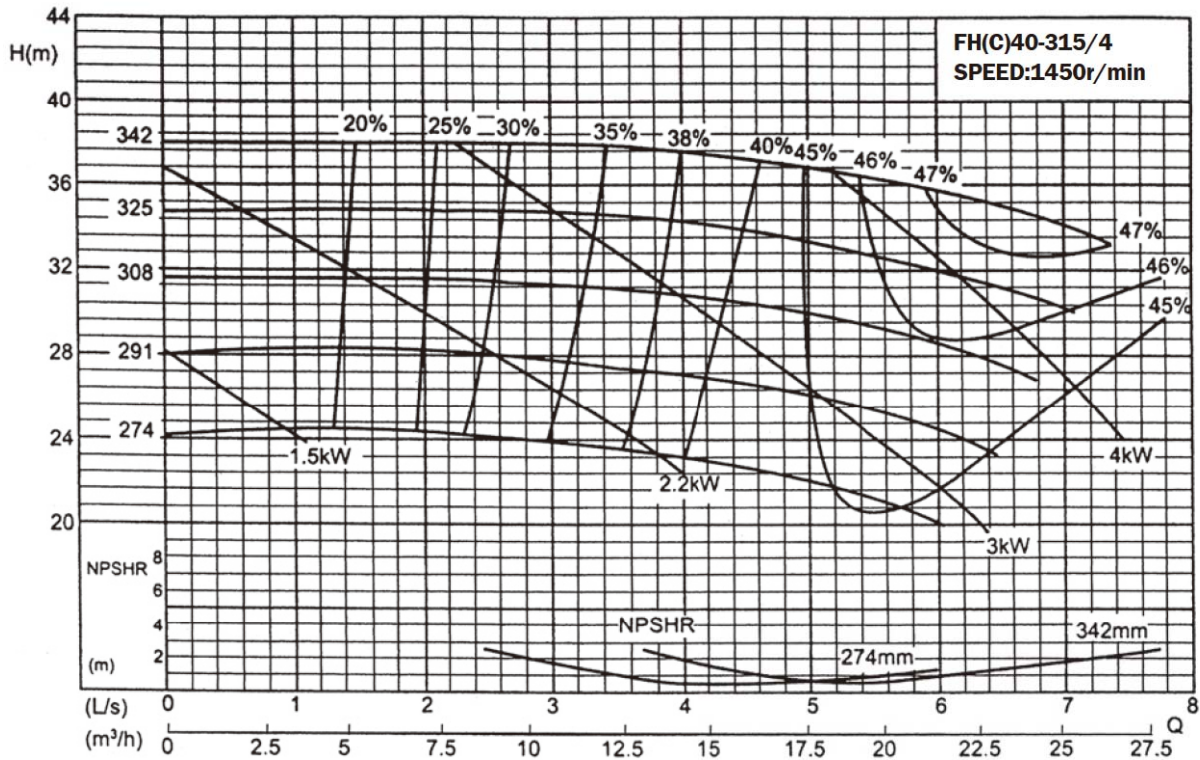
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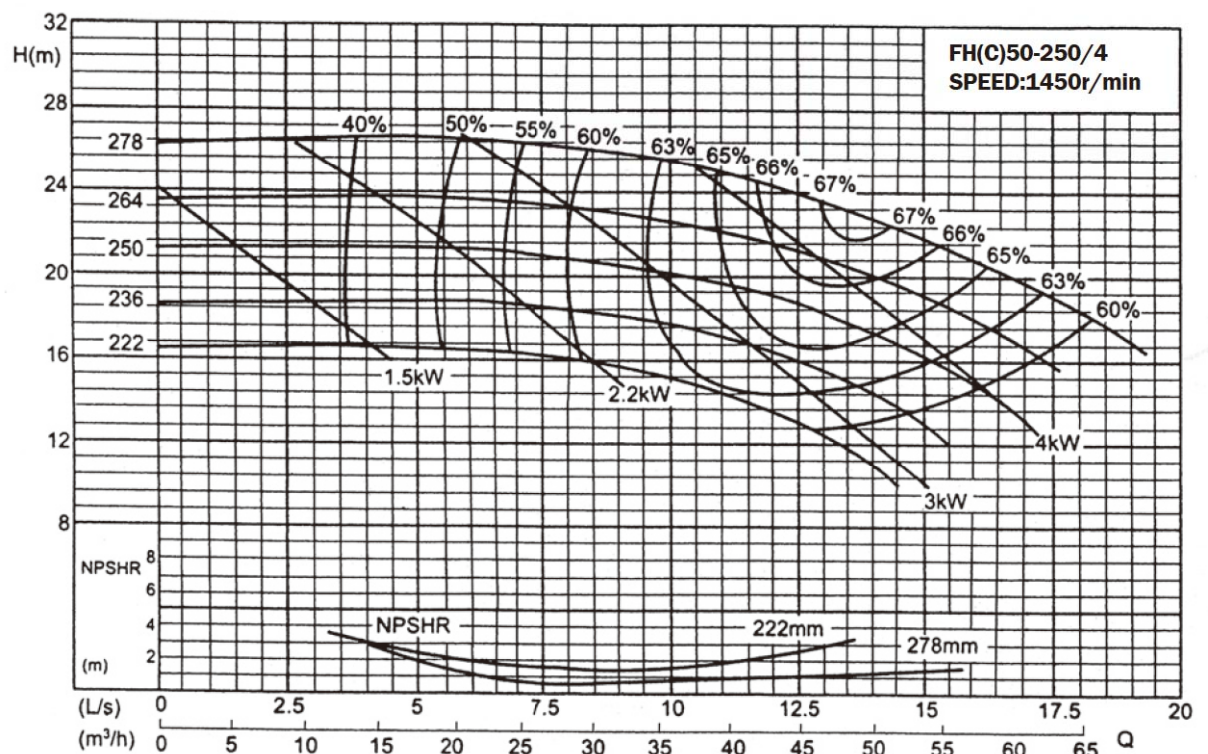
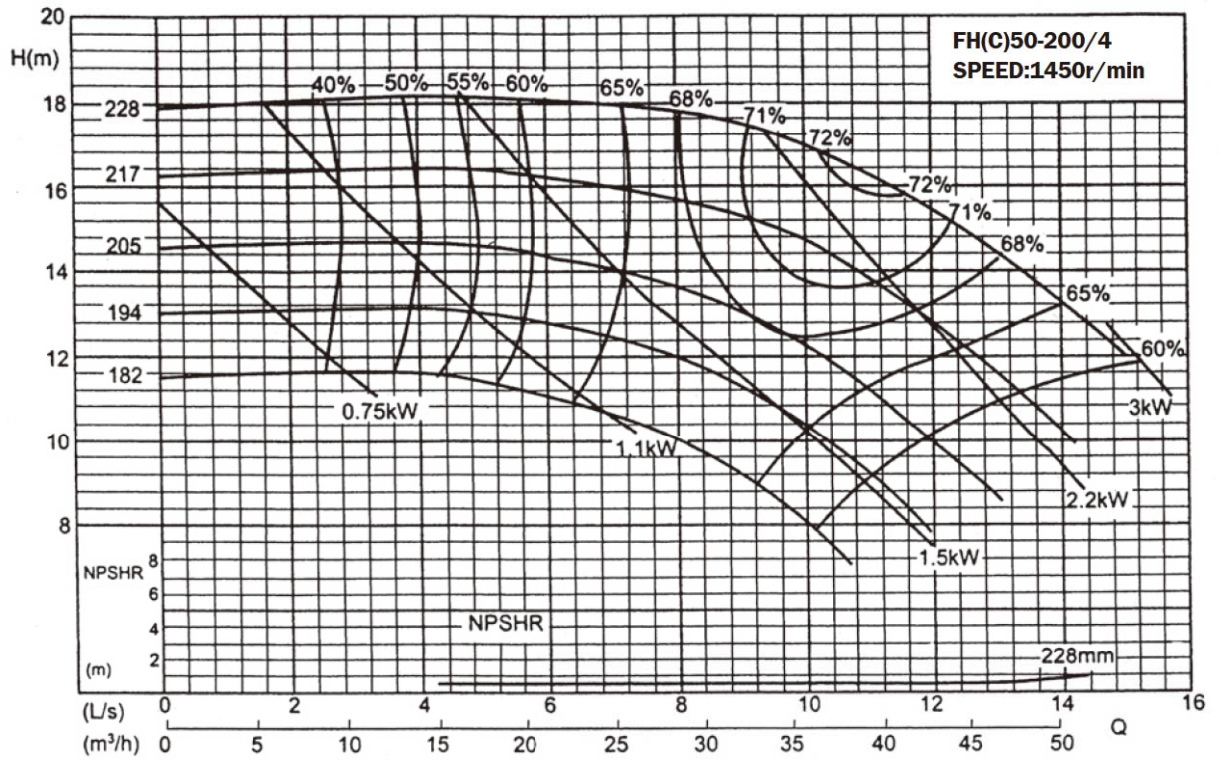
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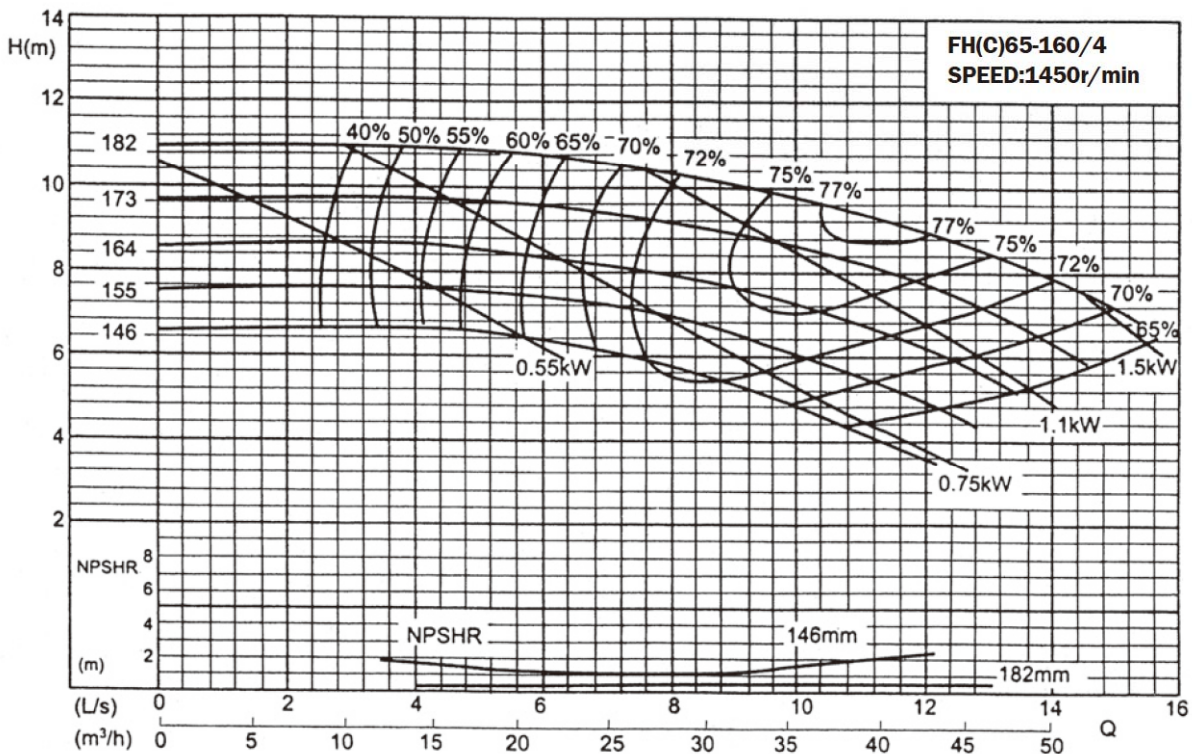
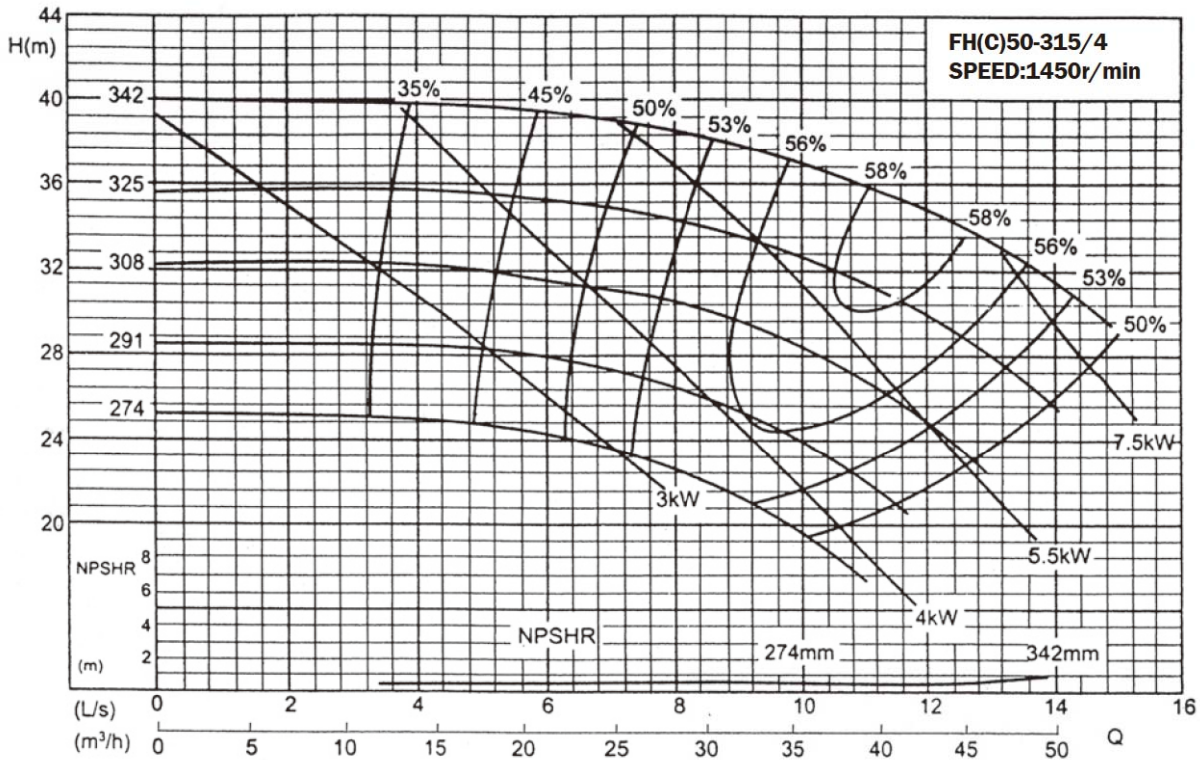
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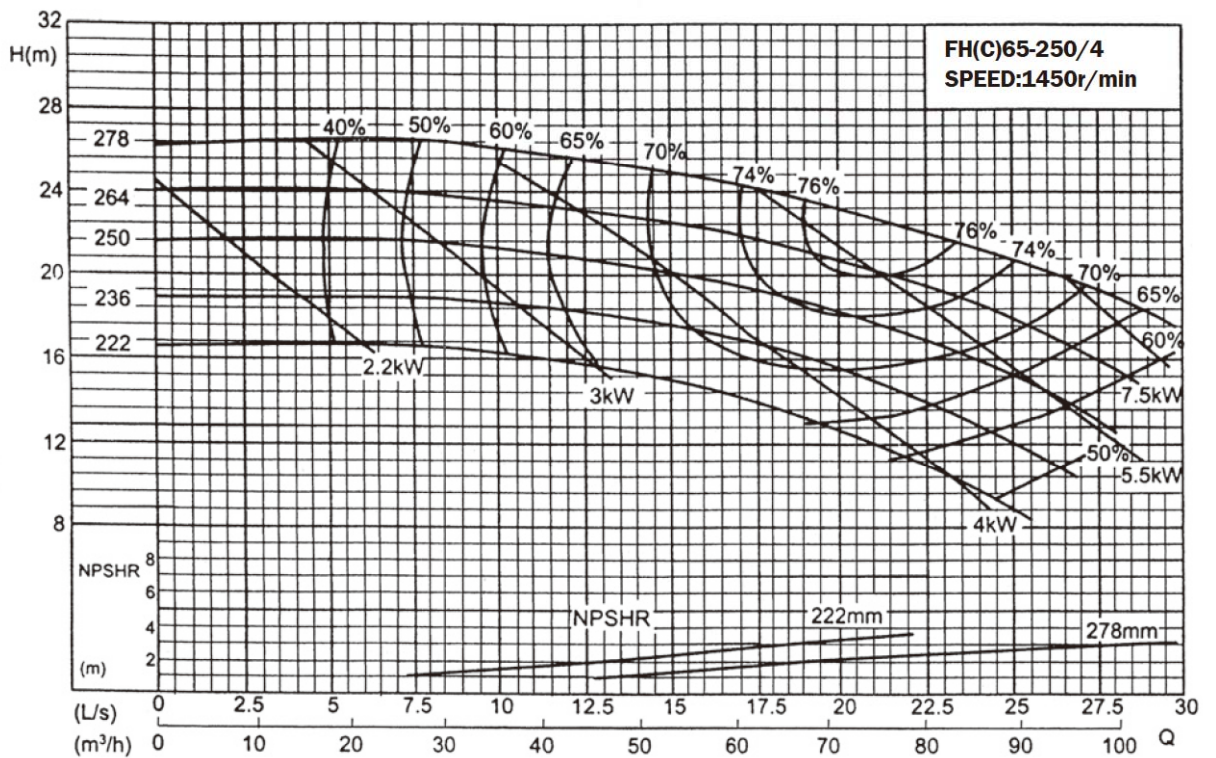
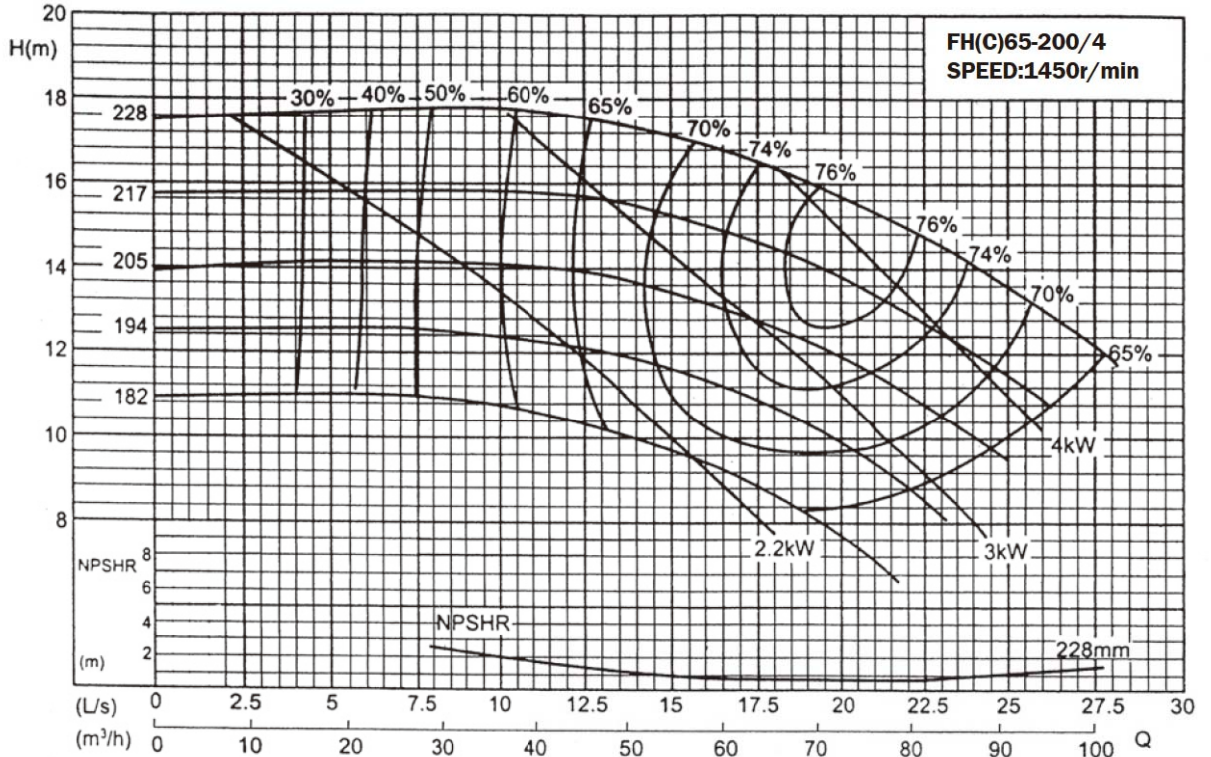
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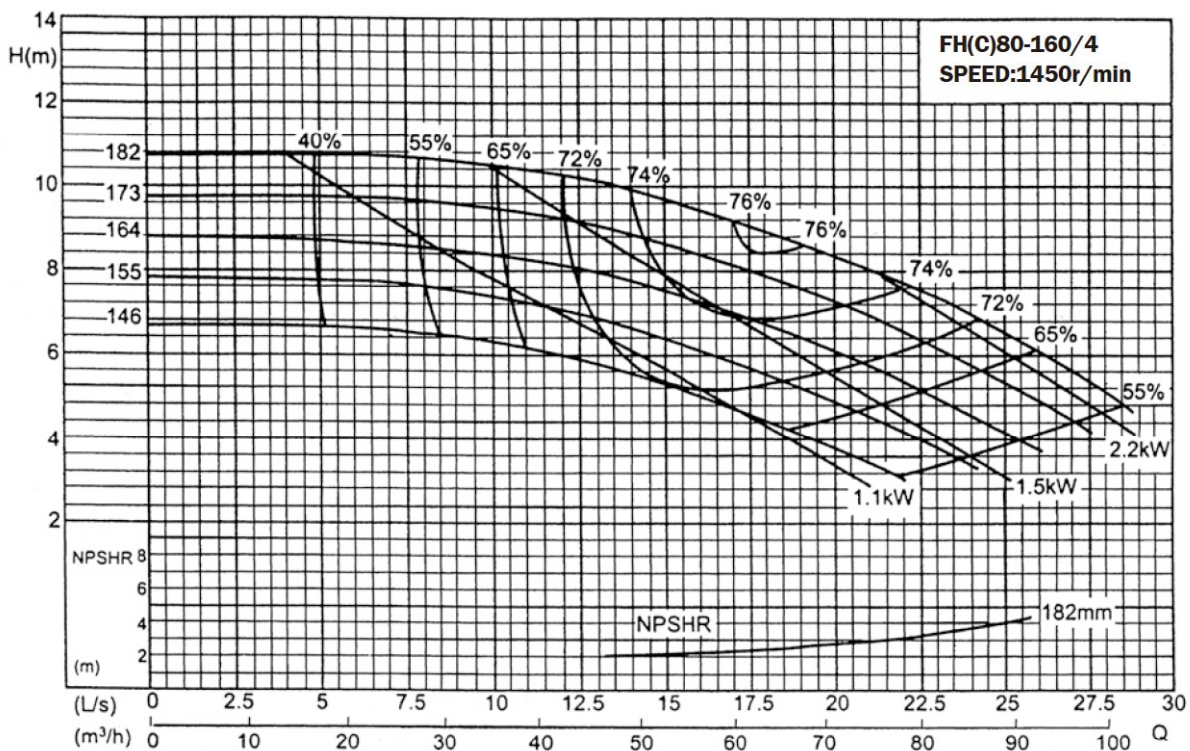
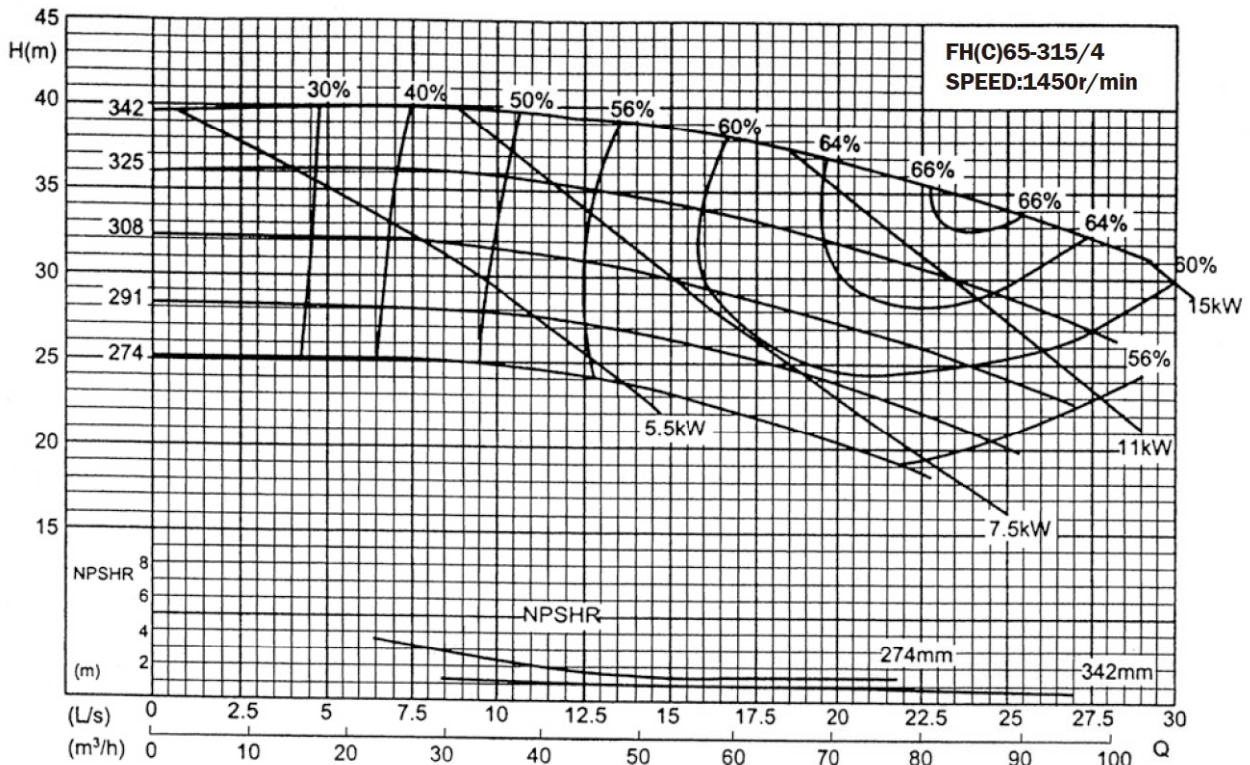
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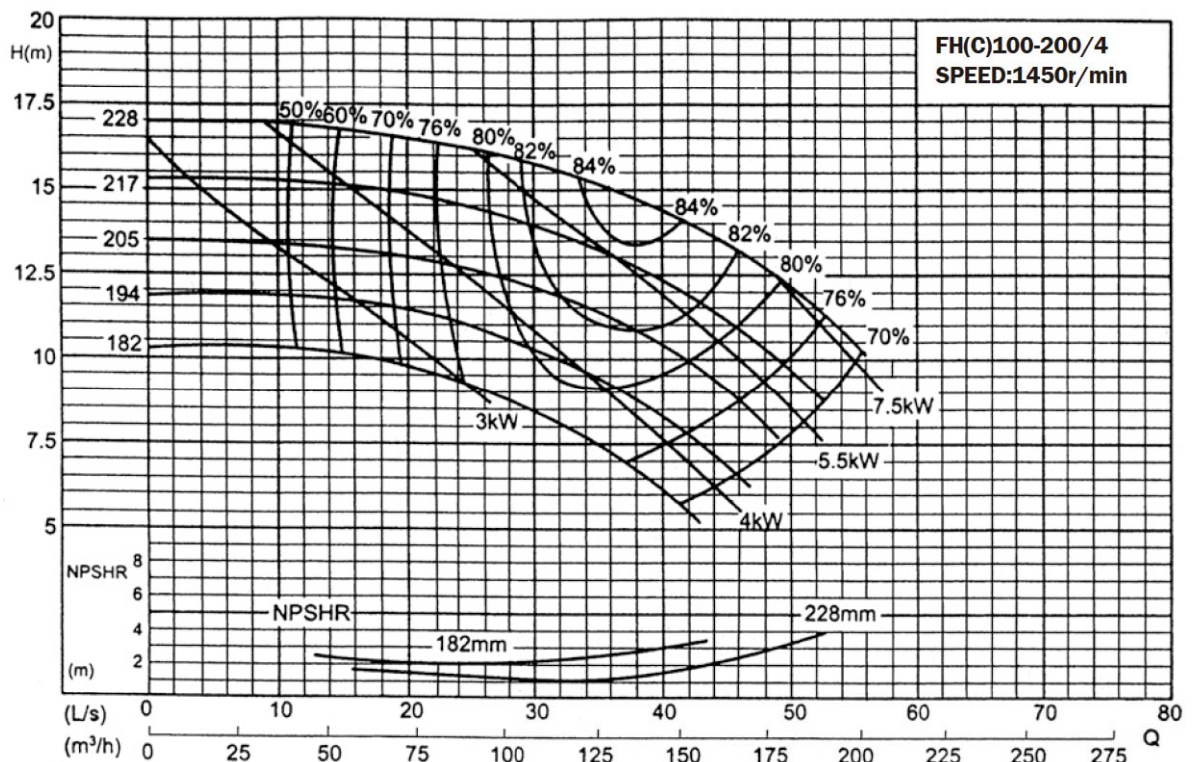
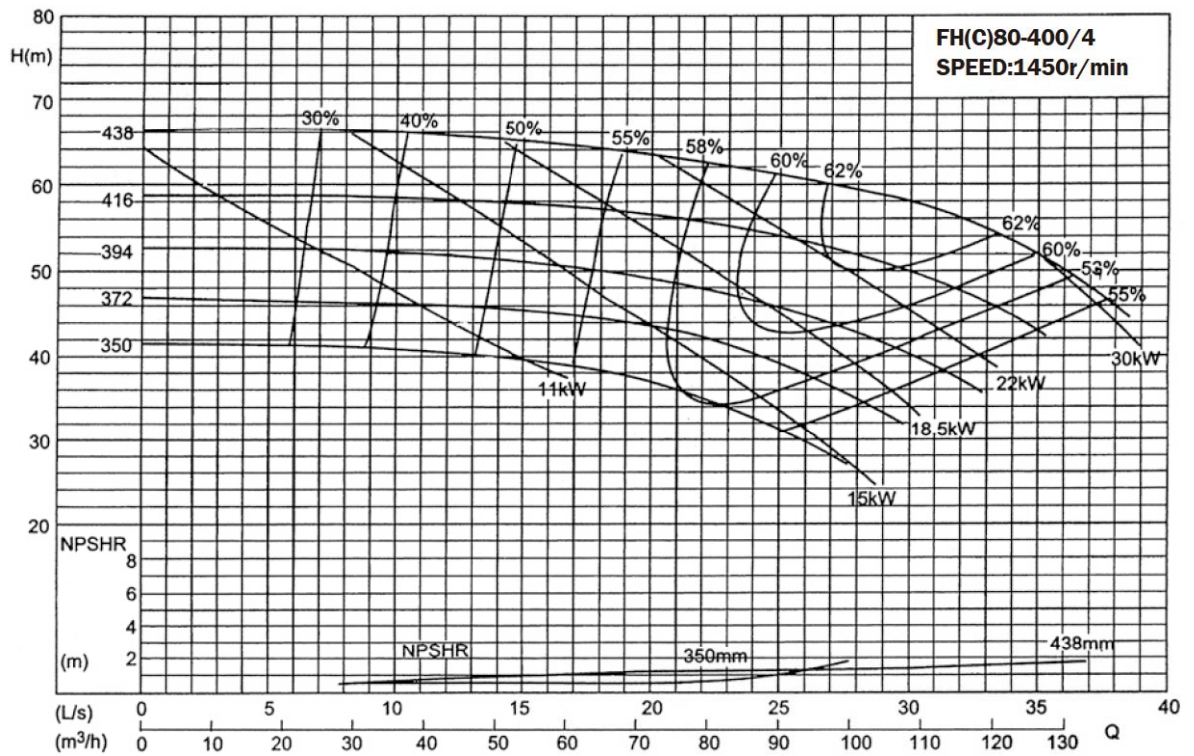
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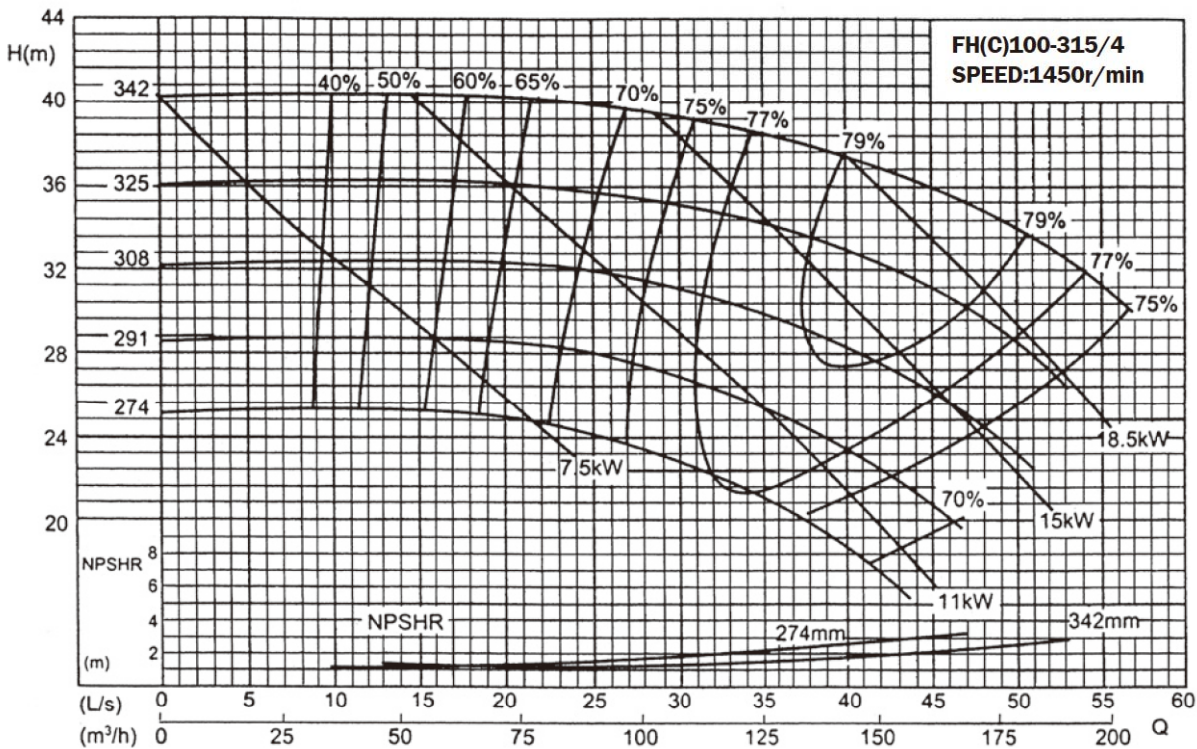
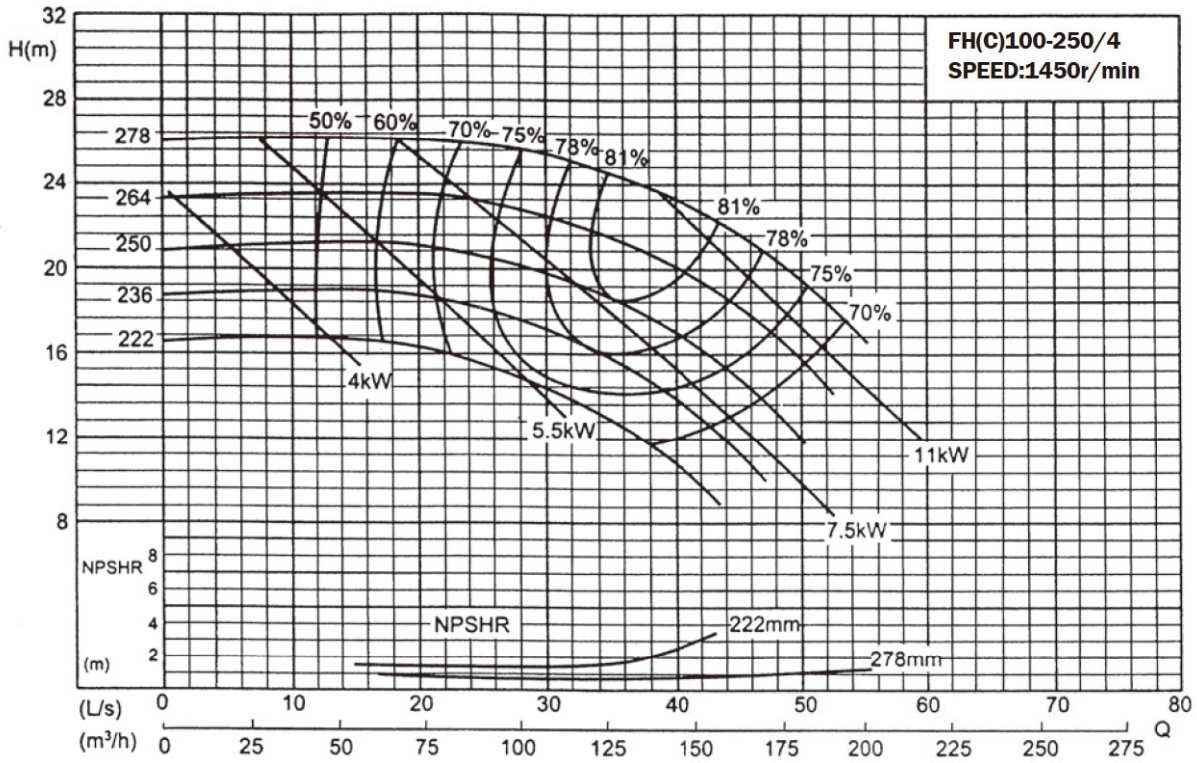
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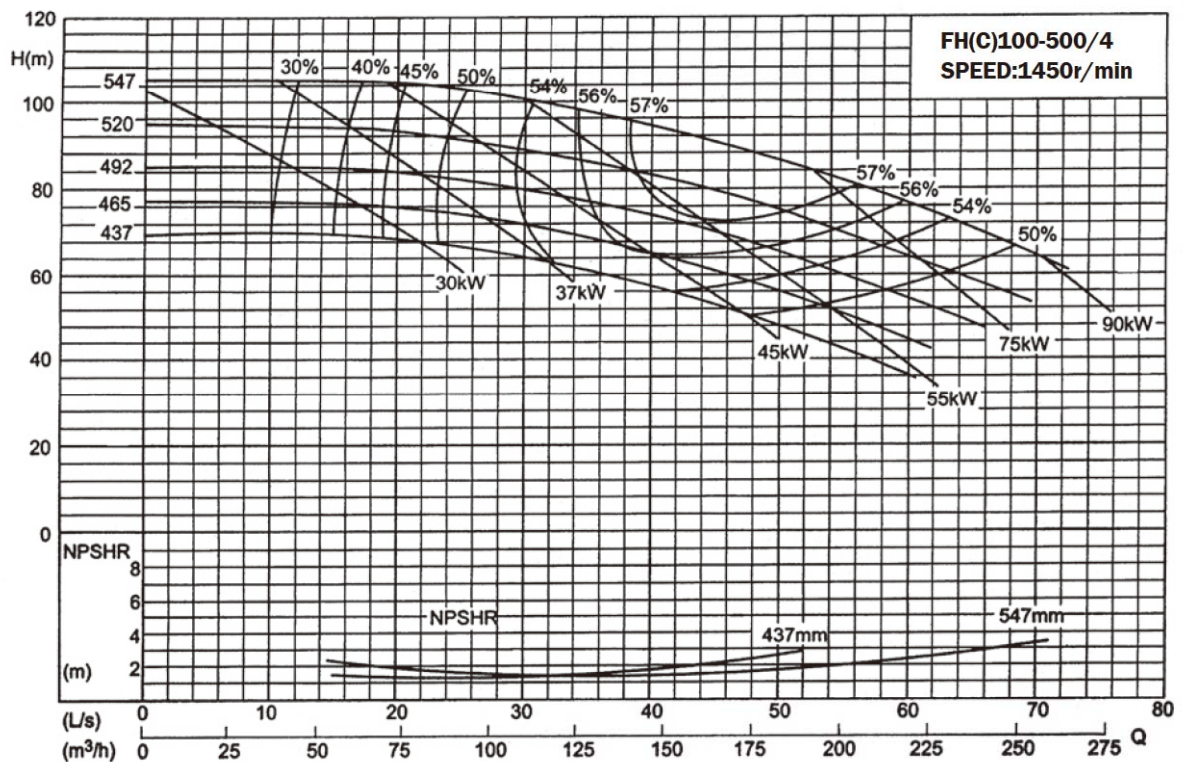
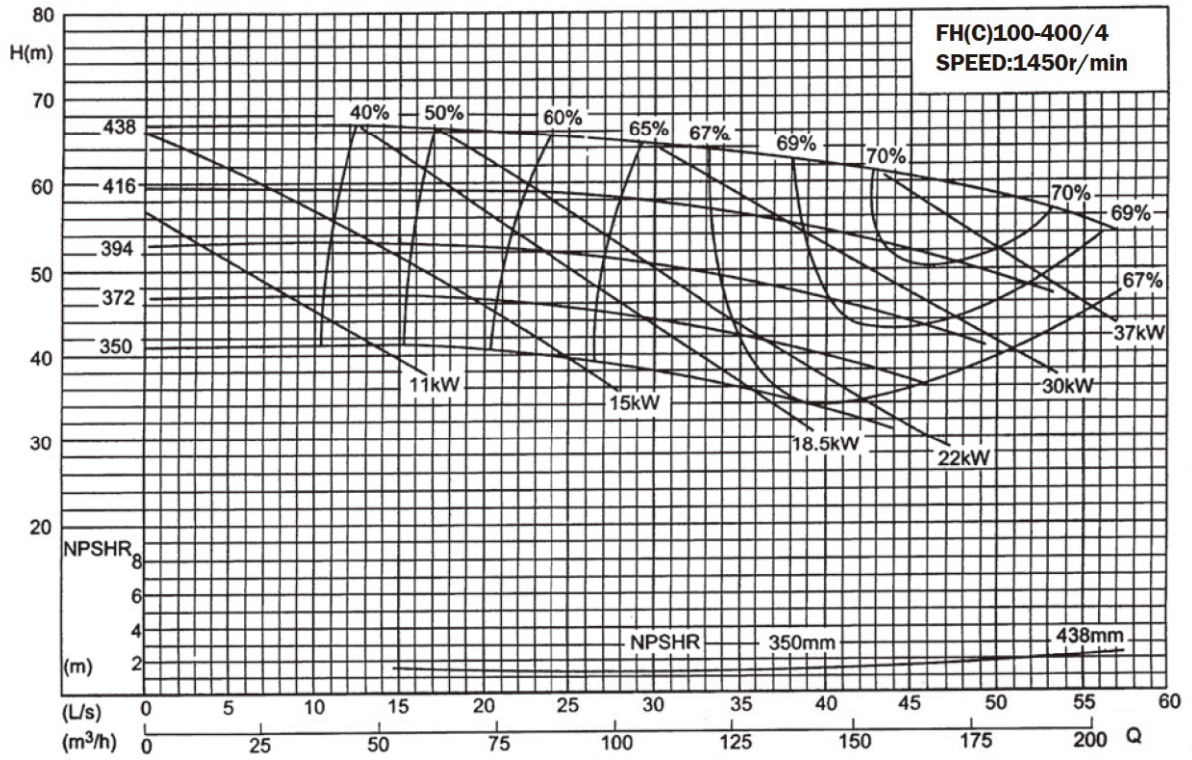
### Performance Curves



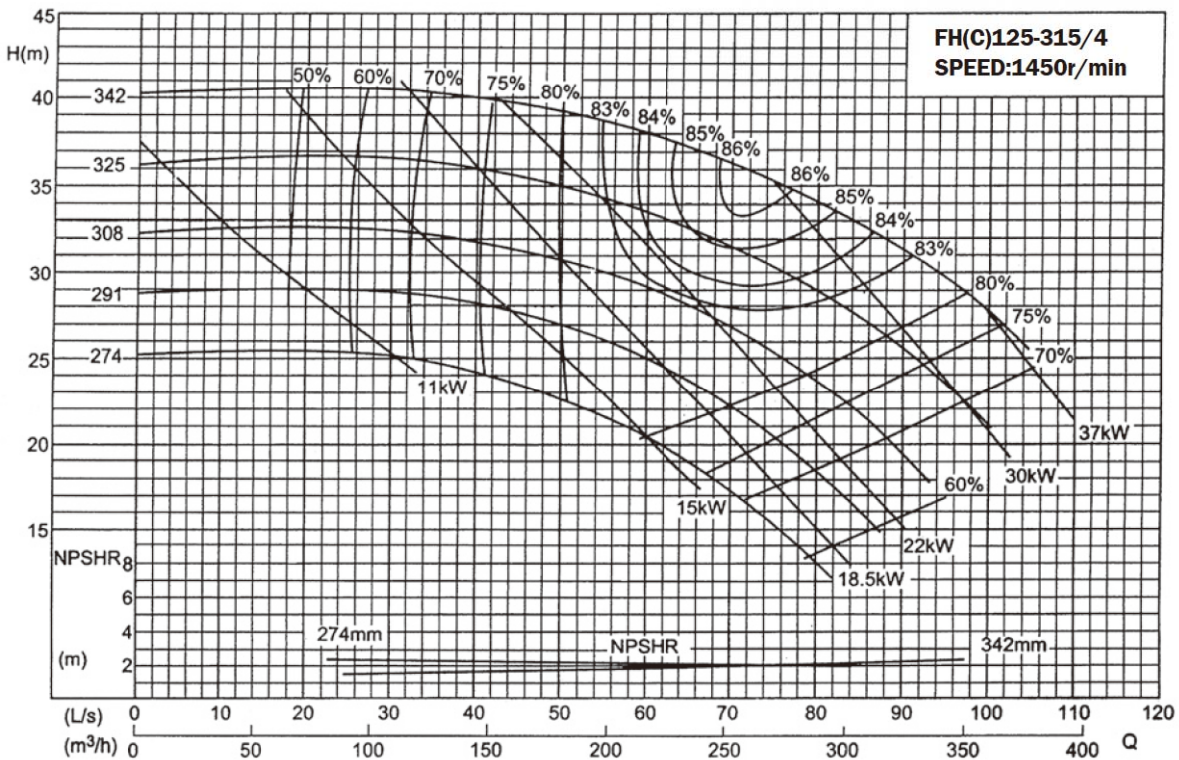
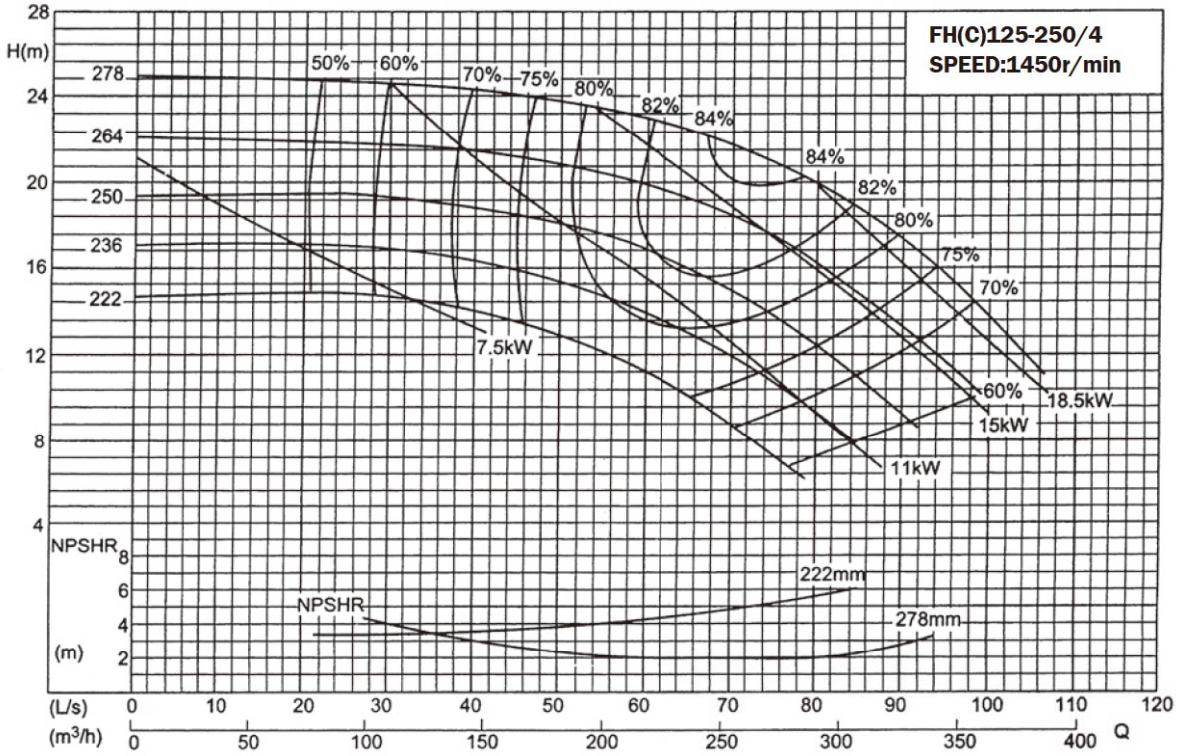
### Performance Curves



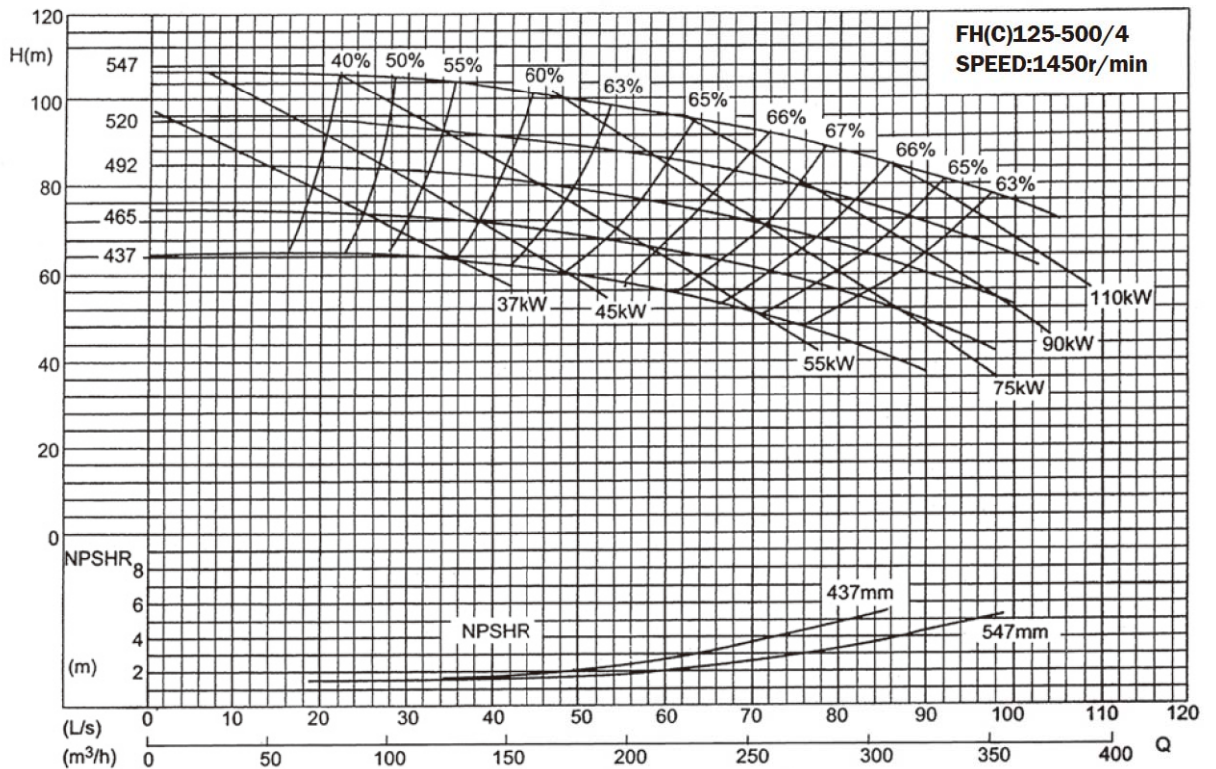
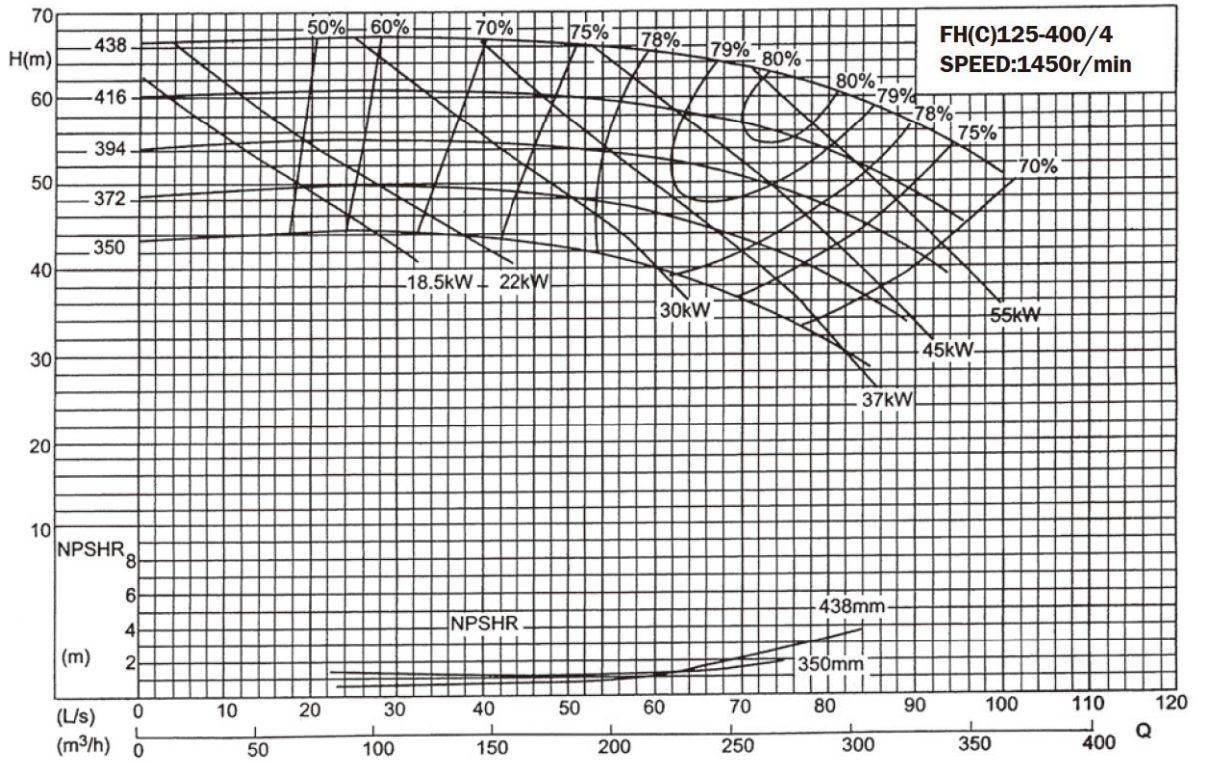
### Performance Curves



### Performance Curves

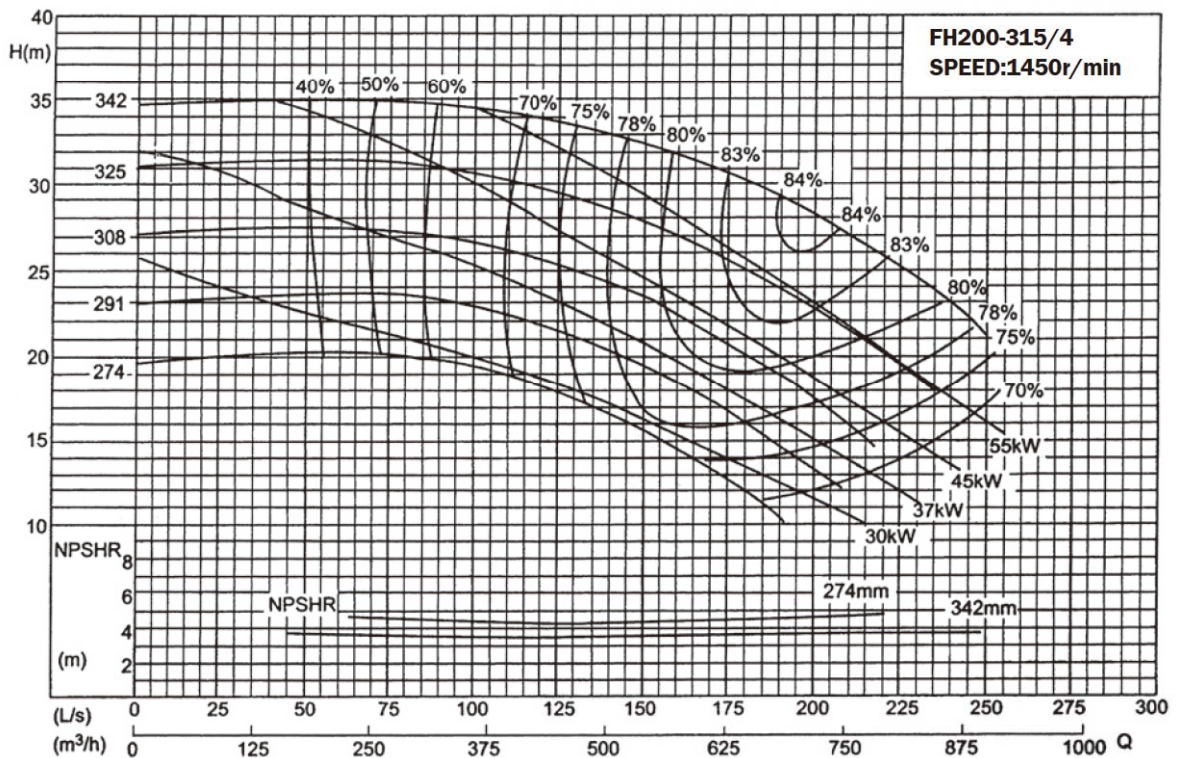
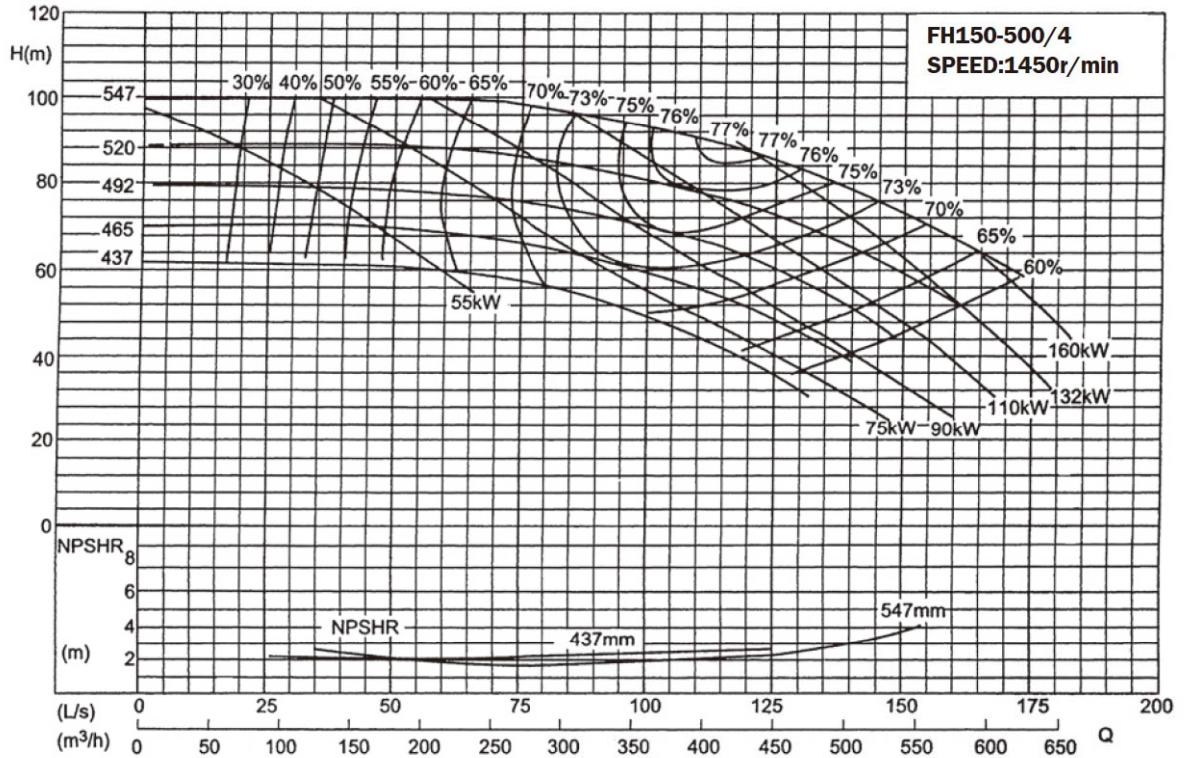


### Performance Curves

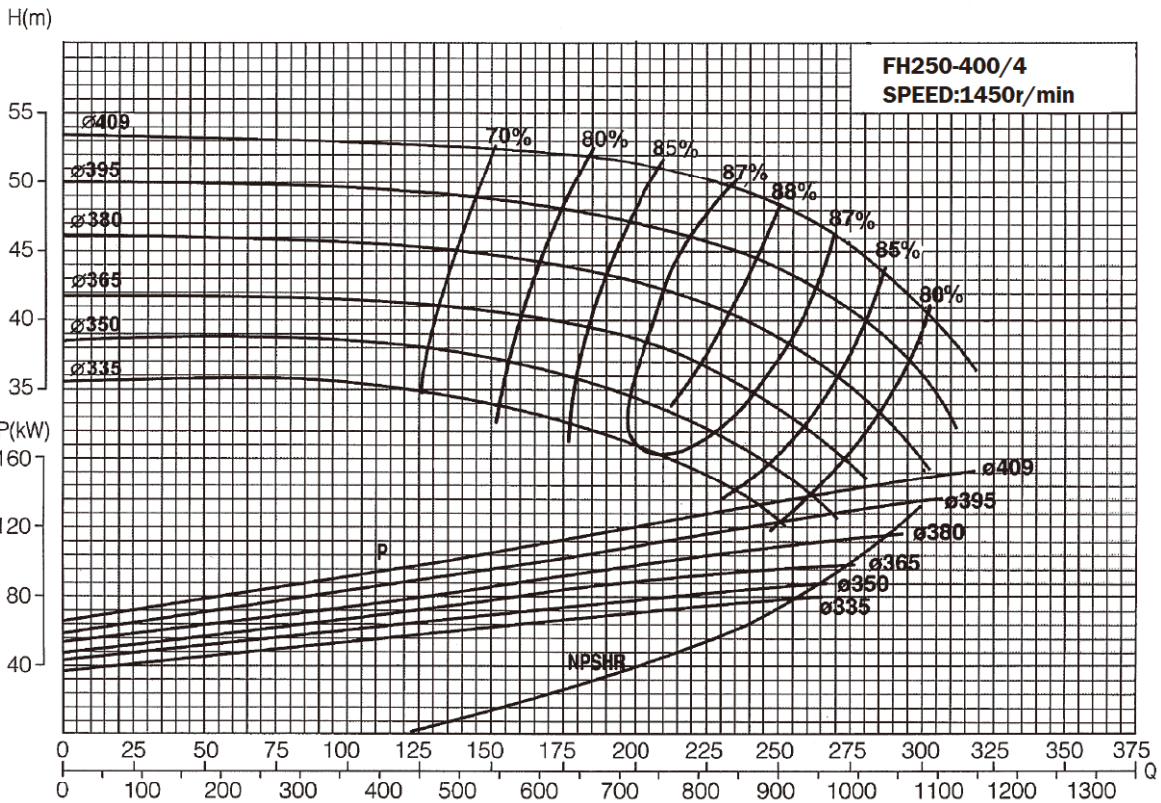
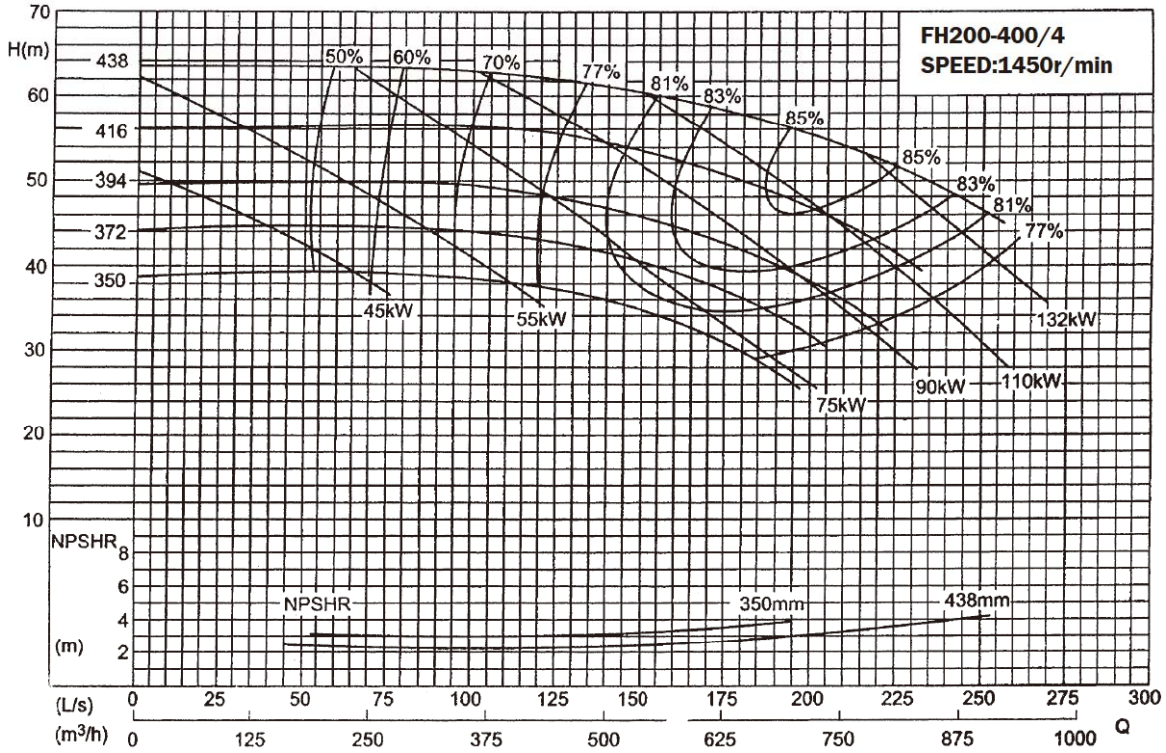




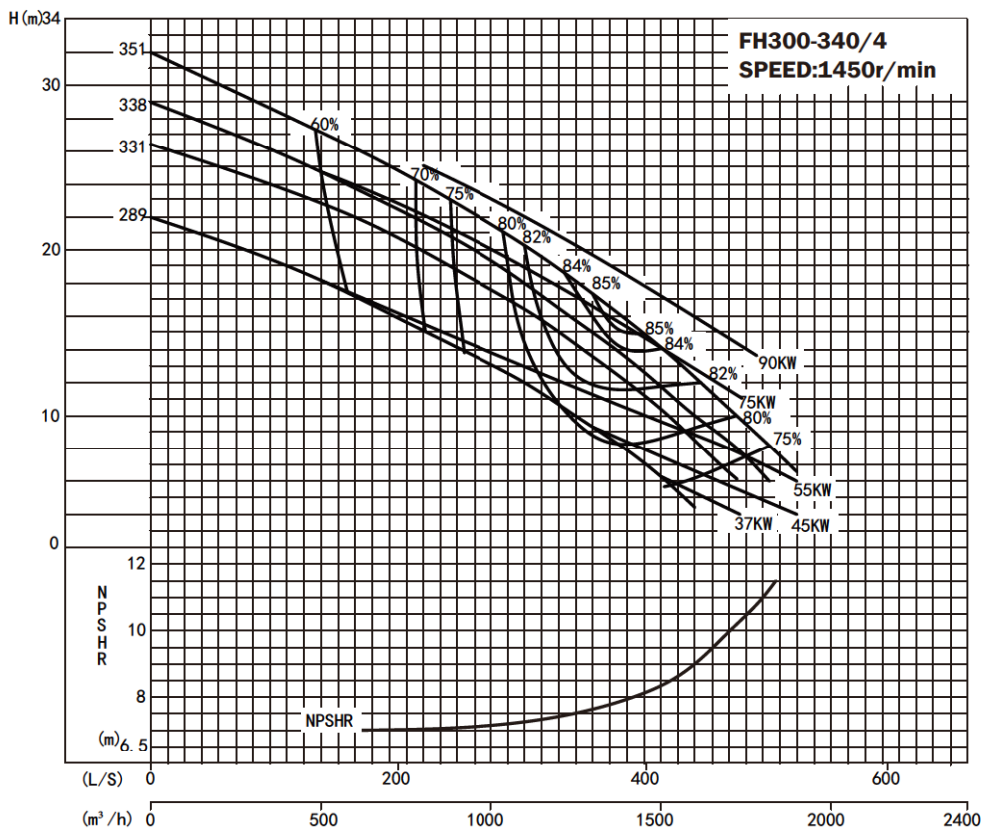
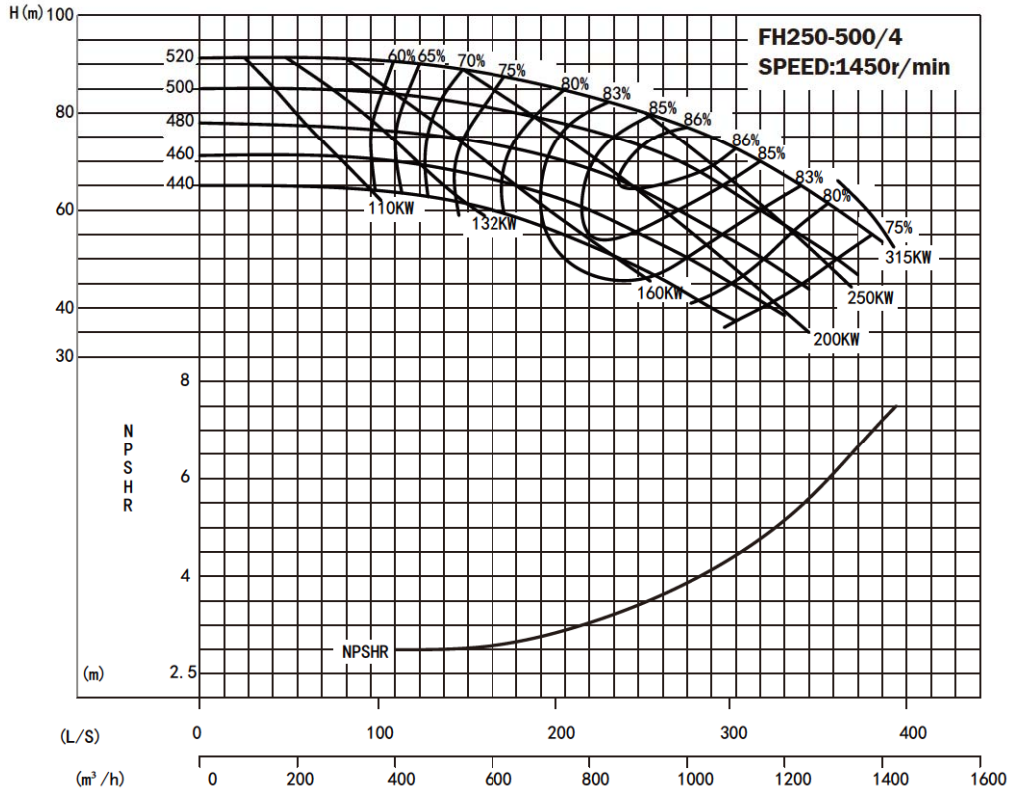
### Performance Curves



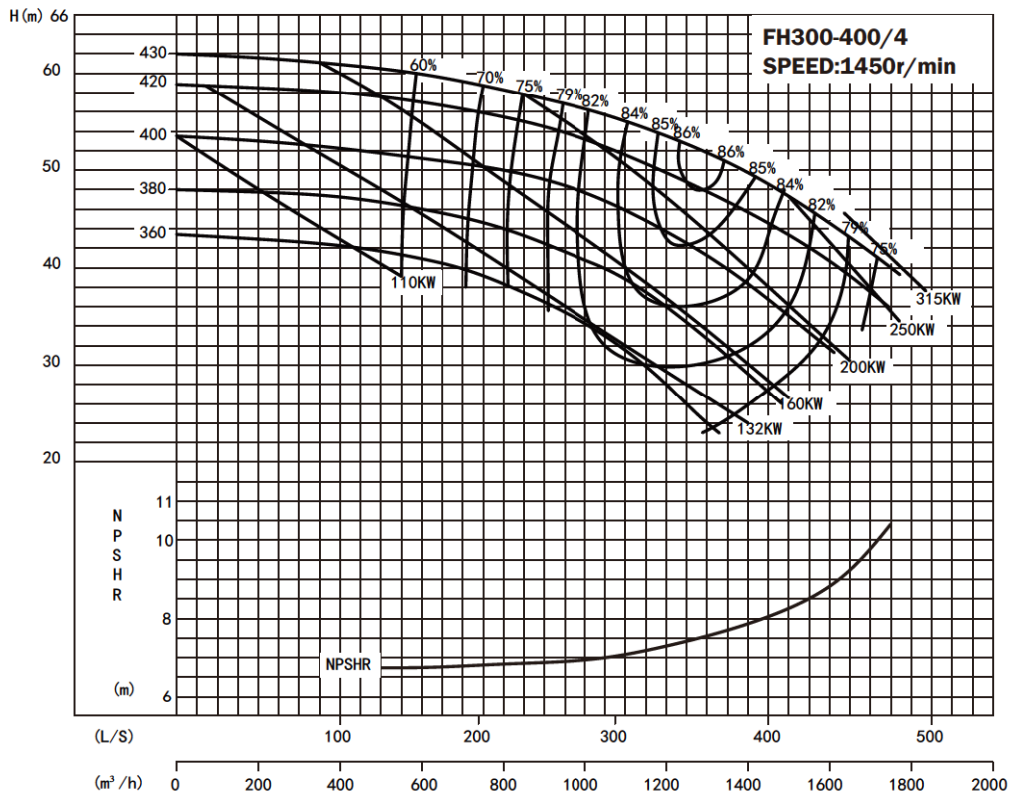
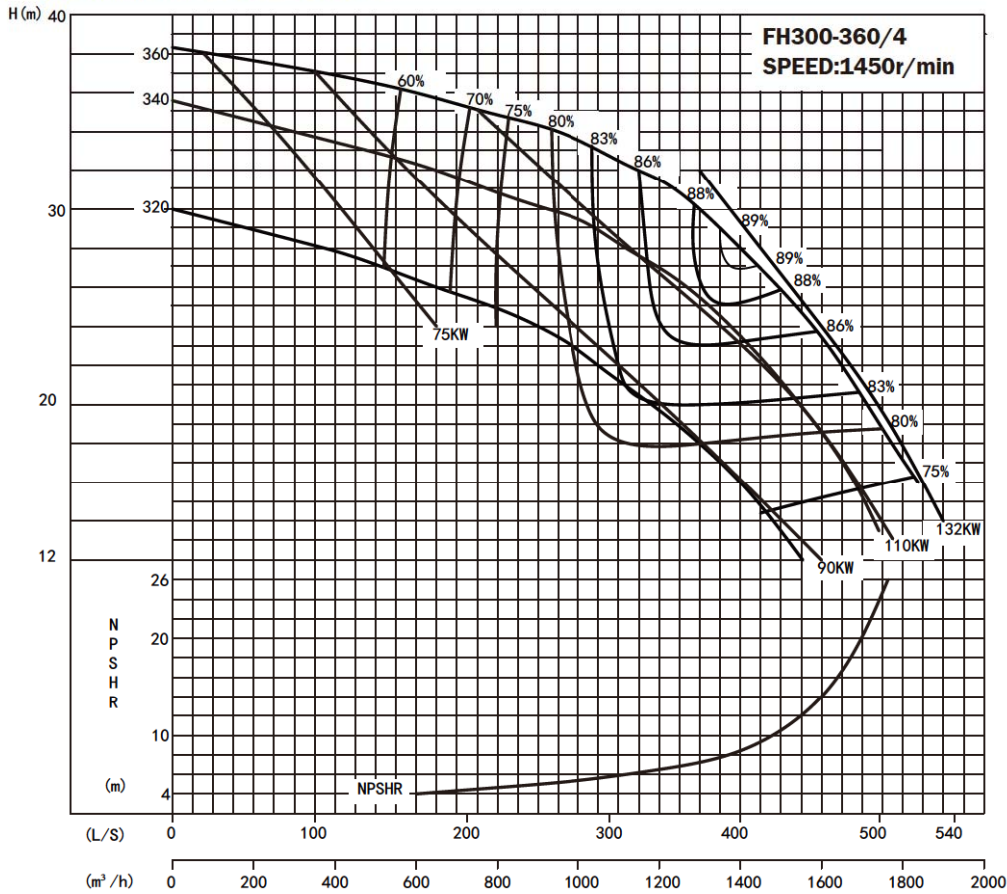
### Performance Curves



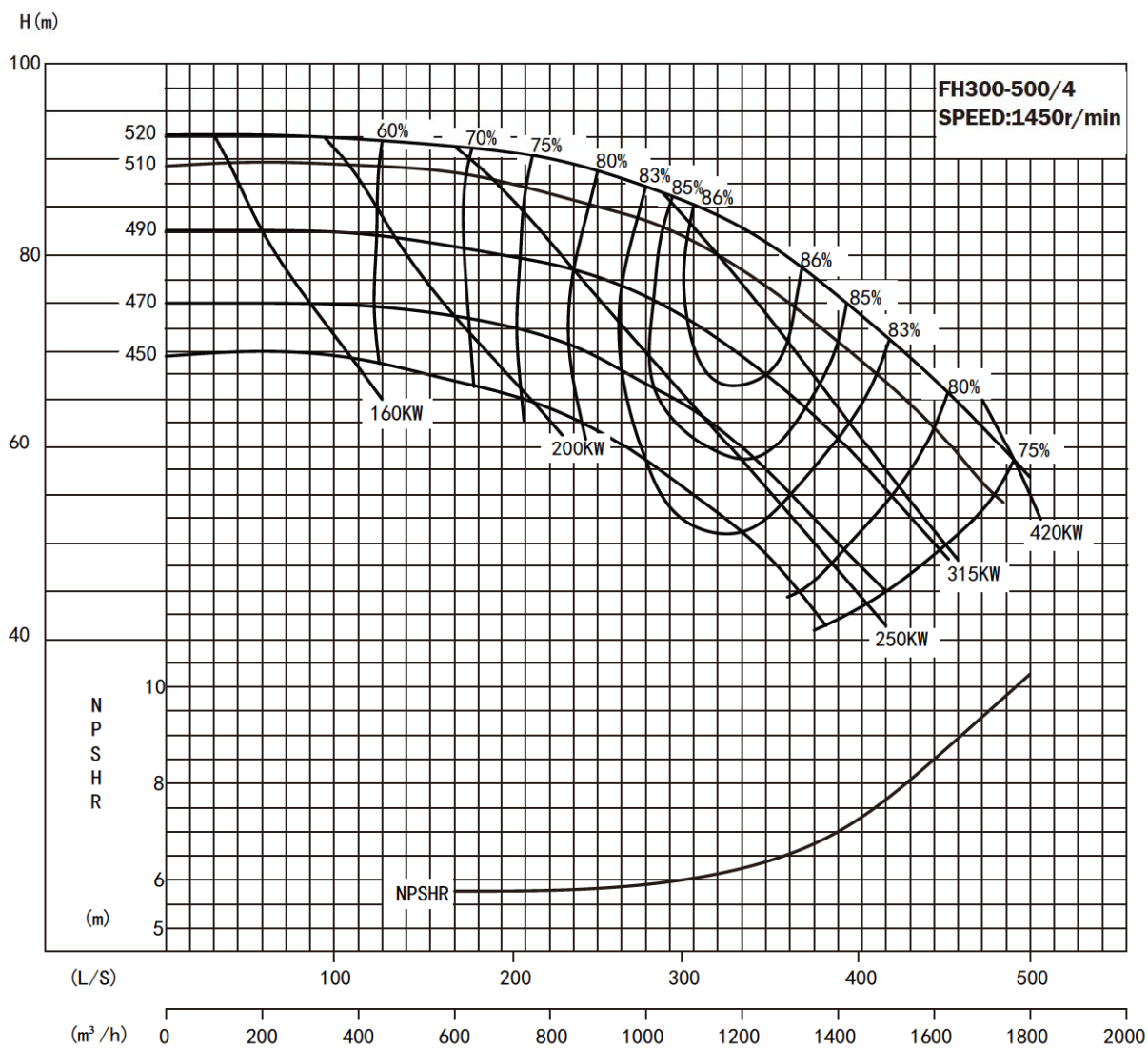
### Performance Curves



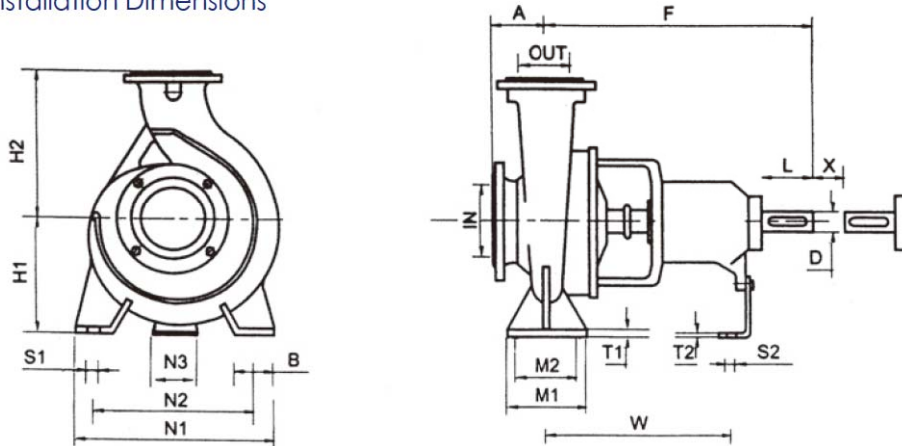
### Performance Curves



### Performance Curves



### Overall & Installation Dimensions

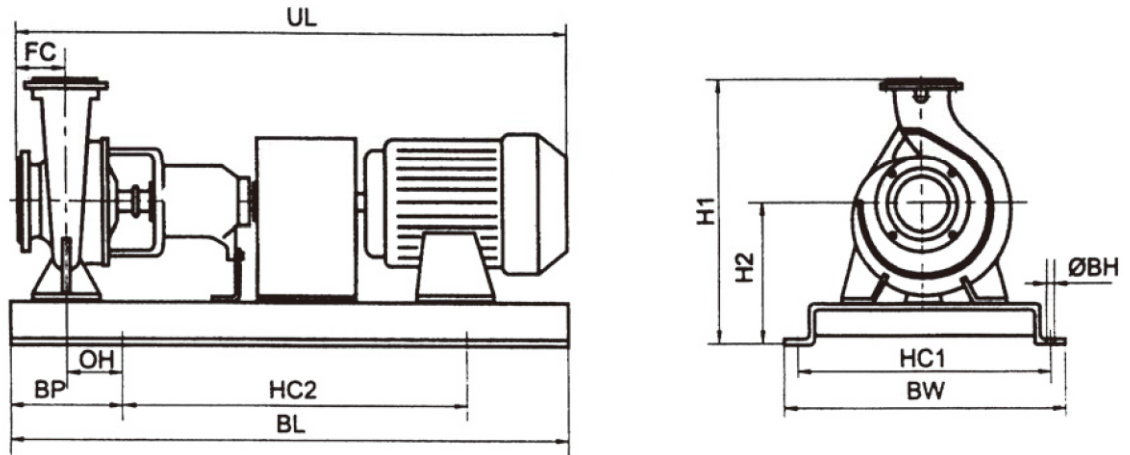


Unit:mm

Pump shaft size			shaft	Pump size					Installation dimension							Bolt		Axial terminal	Spacing	Weight		
IN	OUT	IMP		A	F	H1	H2	B	M1	M2	N1	N2	N3	T1	T2	W	S1	S2	D	L	X	kg
50	32	160	1	80	385	132	160	50	100	70	240	190	110	12	10	285	M12	M12	24	50	100	38
50	32	200	1	80	385	160	180	50	100	70	240	190	110	12	6	285	M12	M12	24	50	100	46
65	50	160	1	80	385	132	160	50	100	70	240	190	110	12	6	285	M12	M12	24	50	100	40
65	40	200	1	100	385	160	180	50	100	70	265	212	110	13	6	285	M12	M12	24	50	100	48
65	40	250	1	100	500	180	225	65	125	95	320	250	110	14	6	370	M12	M12	32	80	100	70
65	40	315	2	125	500	200	250	65	125	95	345	280	110	16	6	370	M12	M12	32	80	100	80
80	65	160	2	100	385	160	180	50	100	70	265	212	110	13	6	285	M12	M12	24	50	100	46
80	50	200	1	100	385	160	200	50	100	70	265	212	110	13	6	285	M12	M12	24	50	100	52
80	50	250	1	125	500	180	225	65	125	95	320	250	110	15	6	370	M12	M12	32	80	100	72
80	50	315	2	125	500	225	280	65	125	95	345	280	110	18	6	370	M12	M12	32	80	100	87
100	80	160	2	100	500	160	200	65	125	95	280	212	110	14	6	370	M12	M12	32	80	100	68
100	65	200	2	100	500	180	225	65	125	95	320	250	110	14	6	370	M12	M12	32	80	100	70
100	65	250	2	125	500	200	250	80	160	120	360	280	110	16	6	370	M16	M12	32	80	140	80
100	65	315	2	125	530	225	280	80	160	120	400	315	110	18	6	370	M16	M12	42	110	140	118
125	80	400	3	125	530	280	355	80	160	120	435	355	110	20	6	370	M16	M12	42	110	140	165
125	100	200	3	125	500	200	280	80	160	120	360	280	110	17	6	370	M16	M12	32	80	140	85
125	100	250	2	140	530	225	280	80	160	120	400	315	110	18	6	370	M16	M12	42	110	140	126
125	100	315	3	140	530	250	315	80	160	120	400	315	110	19	6	370	M16	M12	42	110	140	135
125	100	400	3	140	530	280	355	100	200	150	500	400	110	20	6	370	M20	M12	42	110	140	175
125	100	500	3	160	530	355	450	100	200	150	550	450	110	25	10	500	M16	M12	42	110	180	313
150	125	250	4	140	670	250	355	80	160	120	400	315	110	19	6	370	M16	M12	42	110	140	140
150	125	315	3	140	530	280	355	100	200	150	500	400	110	20	6	370	M20	M12	42	110	140	150
150	125	400	3	140	530	315	400	100	200	150	500	400	110	21	6	370	M20	M12	42	110	140	186
150	150	500	3	160	530	355	450	100	200	150	550	450	140	25	10	500	M20	M12	48	110	180	336
200	150	315	4	160	670	315	400	100	200	150	550	450	140	25	10	500	M20	M16	48	110	180	222
200	150	400	4	160	670	315	450	100	200	150	550	450	140	25	10	500	M20	M16	48	110	180	300
200	150	500	4	160	670	400	500	100	200	150	550	450	140	25	10	500	M20	M16	48	110	180	382
250	200	315	4	180	670	315	450	100	200	150	550	450	140	25	10	500	M20	M16	48	110	180	277
250	200	400	4	180	670	355	500	100	200	150	550	450	140	25	10	500	M20	M16	48	110	180	340
300	250	400	4	180	670	400	500	100	200	150	550	450	140	25	10	500	M20	M16	48	110	180	382
300	250	500	4	225	715	500	500	100	400	325	800	670	140	32	20	600	M34	M20	60	140	180	412
300	300	340	4	225	850	450	450	100	350	280	700	540	140	25	10	715	M34	M20	60	140	180	582
300	300	360	4	300	717	560	450	100	400	325	700	540	140	32	20	595	M34	M20	60	140	180	595
350	300	400	5	300	715	560	500	130	400	325	800	640	160	32	20	595	M34	M20	60	140	180	600
350	300	500	5	300	715	560	500	130	400	325	800	640	160	32	20	600	M34	M20	60	140	180	690

### FH泵组安装尺寸图 Pump Installation Diagram

2900rpm



Unit:mm

Motor		H1	H2	HC1	HC2	BW	BL	BP	BH	OH	UL	FC	DNS	DND
Type	Power(kW)													
FH32-160	3	392	232	390	520	430	920	200	14	117	962	80	50	32
	4	392	232	390	520	430	920	200	14	117	980	80	50	32
	5.5	392	232	420	600	460	1060	230	14	127	1045	80	50	32
FH32-200	5.5	440	260	420	600	460	1060	230	14	127	1045	80	50	32
	7.5	440	260	420	600	460	1060	230	14	127	1045	80	50	32
	11	460	280	480	650	530	1180	250	18	144	1175	80	50	32
FH40-200	7.5	440	260	420	600	460	1060	230	14	127	1065	100	65	40
	11	460	280	480	650	530	1180	250	18	144	1195	100	65	40
	15	460	280	480	650	530	1180	250	18	144	1195	100	65	40
FH40-250	11	525	300	480	755	530	1285	250	18	144	1311	100	65	40
	15	525	300	480	755	530	1285	250	18	144	1311	100	65	40
	18.5	525	300	480	755	530	1285	250	18	144	1354	100	65	40
	22	525	300	480	755	530	1285	250	18	144	1371	100	65	40
	30	545	320	530	830	590	1440	300	22	175	1474	100	65	40
FH40-315	22	570	320	480	755	590	1285	250	18	144	1396	125	65	40
	30	570	320	530	830	590	1440	300	22	175	1499	125	65	40
	37	570	320	530	830	590	1440	300	22	175	1499	125	65	40
	45	595	345	530	830	590	1440	300	22	175	1535	125	65	40
FH50-160	4	392	232	390	520	430	920	200	14	117	980	80	65	50
	5.5	392	232	420	600	460	1060	230	14	127	1045	80	65	50
	7.5	392	232	420	600	460	1060	230	14	127	1045	80	65	50
FH50-200	11	480	280	480	650	530	1180	250	18	144	1195	100	80	50
	15	480	280	480	650	530	1180	250	18	144	1195	100	80	50
	18.5	480	280	480	650	530	1180	250	18	144	1238	100	80	50
	22	500	300	480	650	530	1180	250	18	144	1255	100	80	50
FH50-250	22	525	300	480	765	530	1285	250	18	144	1396	125	80	50
	30	545	320	530	830	590	1440	300	22	175	1499	125	80	50
	37	545	320	530	830	590	1440	300	22	175	1499	125	80	50
	45	570	345	530	830	590	1440	300	22	175	1535	125	80	50

### Overall & Installation Dimensions

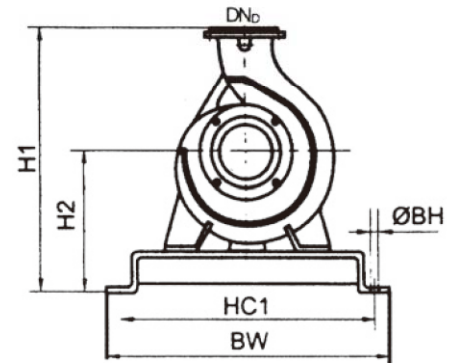
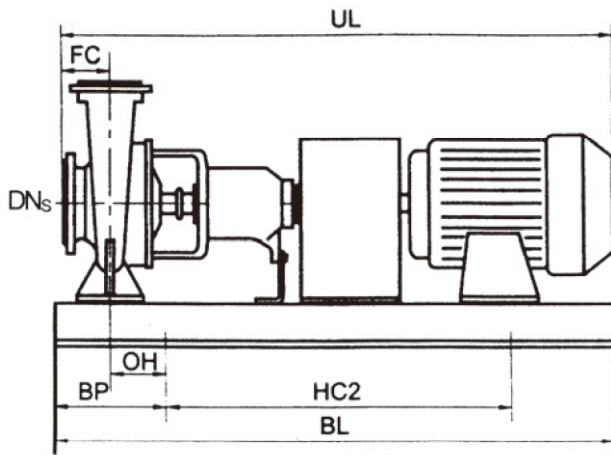
Unit:mm

2900rpm

Motor		H1	H2	HC1	HC2	BW	BL	BP	BH	OH	UL	FC	DNS	DND
Type	Power(kW)													
FH50-315	30	625	345	530	830	590	1440	300	22	175	1499	125	80	50
	37	625	345	530	830	590	1440	300	22	175	1499	125	80	50
	45	625	345	530	830	590	1440	300	22	175	1535	125	80	50
	55	680	400	640	910	710	1720	400	28	247	1638	125	80	50
	75	680	400	640	910	710	1720	400	28	247	1680	125	80	50
FH65-160	5.5	440	260	420	600	460	1060	230	14	127	1065	100	80	65
	7.5	440	260	420	600	460	1060	230	14	127	1065	100	80	65
	11	460	280	480	650	530	1180	250	18	144	1195	100	80	65
	15	460	280	480	650	530	1180	250	18	144	1195	100	80	65
FH65-200	18.5	525	300	480	755	530	1285	250	18	144	1354	100	100	65
	22	525	300	480	755	530	1285	250	18	144	1371	100	100	65
	30	545	320	530	830	590	1440	300	22	175	1474	100	100	65
	37	545	320	530	830	590	1440	300	22	175	1474	100	100	65
FH65-250	30	570	320	530	830	590	1060	300	22	175	1498	125	100	65
	37	570	320	530	830	590	1060	300	22	175	1498	125	100	65
	45	595	345	530	830	590	1180	300	22	175	1534	125	100	65
	55	650	400	640	910	710	1720	400	28	247	1637	125	100	65
	75	680	430	640	910	710	1720	400	28	247	1679	125	100	65
FH65-315	55	680	400	640	910	710	1720	400	28	247	1667	125	100	65
	75	710	430	640	910	710	1720	400	28	247	1709	125	100	65
	90	710	430	640	910	710	1720	400	28	247	1759	125	100	65
	110	745	465	750	960	820	1770	400	28	247	1928	125	100	65
FH80-160	11	480	280	480	755	530	1285	250	18	144	1311	100	100	80
	15	480	280	480	755	530	1285	250	18	144	1311	100	100	80
	18.5	480	280	480	755	530	1285	250	18	144	1354	100	100	80
	22	500	280	480	755	530	1285	250	18	144	1371	100	100	80
FH100-200	30	600	320	530	830	590	1440	300	22	175	1498	125	125	100
	37	600	320	530	830	590	1440	300	22	175	1498	125	125	100
	45	625	345	530	830	590	1440	300	22	175	1534	125	125	100
	55	680	400	640	910	710	1720	400	28	247	1637	125	125	100
	75	710	430	640	910	710	1720	400	28	247	1679	125	125	100
FH100-250	55	680	400	640	910	710	1720	400	28	247	1682	140	125	100
	75	710	430	640	910	710	1720	400	28	247	1724	140	125	100
	90	710	430	640	910	710	1720	400	28	247	1774	140	125	100
	110	745	465	750	960	820	1770	400	28	247	1943	140	125	100
FH100-315	90	745	430	640	910	710	1720	400	28	247	1774	140	125	100
	110	780	465	750	960	820	1770	400	28	247	1943	140	125	100
	132	780	465	750	960	820	1770	400	28	247	2014	140	125	100
	160	780	465	750	960	820	1770	400	28	247	2014	140	125	100
FH125-200	55	705	390	600	1060	810	1750	400	22	247	1680	140	150	125
	75	735	420	670	1060	880	1750	400	22	247	1725	140	150	125
	90	735	420	670	1060	880	1750	400	22	247	1790	140	150	125
	110	770	455	730	1100	940	1800	400	22	247	1940	140	150	125

### Pump Installation Diagram

1450rpm



Unit:mm

Motor		H1	H2	HC1	HC2	BW	BL	BP	BH	OH	UL	FC	DNS	DND
Type	Power(kW)													
FH32-160	0.37	392	232	390	520	430	920	200	14	117	962	80	50	32
	0.55	392	232	390	520	430	920	200	14	117	980	80	50	32
	0.75	392	232	420	600	460	1060	230	14	127	1045	80	50	32
FH32-200	0.55	440	260	420	600	460	1060	230	14	127	1045	80	50	32
	0.75	440	260	420	600	460	1060	230	14	127	1045	80	50	32
	1.1	460	280	480	650	530	1180	250	18	144	1175	80	50	32
FH40-200	0.75	440	260	420	600	460	1060	230	14	127	1065	100	65	40
	1.1	460	280	480	650	530	1180	250	18	144	1195	100	65	40
	1.5	460	280	480	650	530	1180	250	18	144	1195	100	65	40
FH40-250	1.1	525	300	480	755	530	1285	250	18	144	1311	100	65	40
	1.5	525	300	480	755	530	1285	250	18	144	1311	100	65	40
	2.2	525	300	480	755	530	1285	250	18	144	1354	100	65	40
	3	525	300	480	755	530	1285	250	18	144	1371	100	65	40
	4	545	320	530	830	590	1440	300	22	175	1474	100	65	40
FH40-315	2.2	570	320	480	755	590	1285	250	18	144	1396	125	65	40
	3	570	320	530	830	590	1440	300	22	175	1499	125	65	40
	4	570	320	530	830	590	1440	300	22	175	1499	125	65	40
	5.5	595	345	530	830	590	1440	300	22	175	1535	125	65	40
FH50-160	0.55	392	232	390	520	430	920	200	14	117	980	80	65	50
	0.75	392	232	420	600	460	1060	230	14	127	1045	80	65	50
	1.1	392	232	420	600	460	1060	230	14	127	1045	80	65	50
FH50-200	1.1	480	280	480	650	530	1180	250	18	144	1195	100	80	50
	1.5	480	280	480	650	530	1180	250	18	144	1195	100	80	50
	2.2	480	280	480	650	530	1180	250	18	144	1238	100	80	50
	3	500	300	480	650	530	1180	250	18	144	1255	100	80	50
FH50-250	1.5	525	300	480	765	530	1285	250	18	144	1396	125	80	50
	2.2	545	320	530	830	590	1440	300	22	175	1499	125	80	50
	3	545	320	530	830	590	1440	300	22	175	1499	125	80	50
	4	570	345	530	830	590	1440	300	22	175	1535	125	80	50

1450rpm

Motor		H1	H2	HC1	HC2	BW	BL	BP	BH	OH	UL	FC	DNS	DND
Type	Power(kW)													
FH65-160	0.75	440	260	390	520	430	920	200	14	895	895	100	80	65
	1.1	440	260	390	520	430	920	200	14	920	920	100	80	65
	1.5	440	260	390	520	430	920	200	14	945	945	100	80	65
FH65-200	2.2	505	280	420	600	460	1060	230	14	127	1098	100	100	65
	3	505	280	420	600	460	1060	230	14	127	1098	100	100	65
	4	505	280	420	600	460	1060	230	14	127	1161	100	100	65
	5.5	525	300	480	650	530	1180	250	18	144	1181	100	100	65
FH65-250	4	570	320	480	650	530	1180	250	18	144	1140	125	100	65
	5.5	570	320	480	650	530	1180	250	18	144	1205	125	100	65
	7.5	570	320	480	650	530	1180	250	18	144	1245	125	100	65
FH65-315	7.5	625	345	480	755	530	1285	250	18	144	1275	125	100	65
	11	625	345	480	755	530	1285	250	18	144	1365	125	100	65
	15	625	345	530	830	590	1440	300	22	175	1408	1251	100	65
FH80-160	1.1	460	260	420	600	460	1060	230	14	127	1036	100	100	80
	1.5	460	260	420	600	460	1060	230	14	127	1061	100	100	80
	2.2	460	260	420	600	460	1060	230	14	127	1098	1003	100	80
	3	460	260	420	600	460	1060	230	14	127	1098	100	100	80
	4	460	260	420	600	460	1060	230	14	127	1116	100	100	80
FH80-400	11	755	400	530	830	590	1440	300	22	175	1365	125	125	80
	15	755	400	530	830	590	1440	300	22	175	1408	125	125	80
	18.5	755	400	530	830	590	1440	300	22	175	1425	125	125	80
	22	755	400	530	830	590	1440	300	22	175	1465	125	125	80
	30	755	400	530	830	590	1440	300	22	175	1528	125	125	80
	37	755	400	530	830	590	1440	300	22	175	1569	125	125	80
FH100-200	4	600	320	480	650	530	1180	250	18	144	1140	125	125	100
	5.5	600	320	480	650	530	1180	250	18	144	1205	125	125	100
	7.5	600	320	480	650	530	1180	250	18	144	1245	125	125	100
FH100-250	7.5	625	345	480	755	530	1285	250	18	144	1290	140	125	100
	11	625	345	480	755	530	1285	250	18	144	1380	140	125	100
	15	625	345	530	830	590	1440	300	22	175	1423	140	125	100
	18.5	625	345	530	830	590	1440	300	22	175	1440	140	125	100
FH100-315	11	685	370	480	755	530	1285	250	18	144	1380	140	125	100
	15	675	360	320	1360	550	1570	300	22	175	1395	140	125	100
	18.5	675	360	320	1360	550	1570	300	22	175	1425	140	125	100
	22	675	360	320	1360	550	1570	300	22	175	1460	140	125	100
	30	705	390	550	940	750	1550	300	22	175	1520	140	125	100
FH100-400	18.5	755	400	630	830	690	1440	300	22	175	1440	140	125	100
	22	775	420	600	1060	810	1750	300	22	175	1520	140	125	100
	30	775	420	600	1060	810	1750	300	22	175	1580	140	125	100
	37	775	420	600	1060	810	1750	400	28	247	1630	140	125	100
	45	785	430	640	910	710	1720	400	28	247	1609	140	125	100
FH100-500	45	955	505	640	910	710	1720	400	28	247	1769	160	125	100
	55	955	505	640	910	710	1720	400	28	247	1842	160	125	100
	75	955	505	750	1120	820	2030	450	28	297	1884	160	125	100
	90	955	505	750	1120	820	2030	450	28	297	1929	160	125	100

Unit:mm

1450rpm

Motor		H1	H2	HC1	HC2	BW	BL	BP	BH	OH	UL	FC	DNS	DND
Type	Power(kW)													
FH125-200	7.5	675	360	320	940	550	1400	250	18	144	1255	140	150	125
	11	675	360	320	1190	550	1570	250	18	144	1350	140	150	125
	15	675	360	320	1190	550	1570	300	18	175	1395	140	150	125
FH125-250	11	715	360	320	1360	550	1570	250	18	144	1350	140	150	125
	15	715	360	320	1360	550	1570	300	18	175	1395	140	150	125
	18.5	715	360	320	1360	550	1570	300	18	175	1425	140	150	125
	22	725	370	530	830	590	1440	300	22	175	1480	140	150	125
FH125-315	15	755	400	630	830	690	1440	300	22	175	1423	140	150	125
	18.5	775	420	600	1060	810	1750	300	22	175	1485	140	150	125
	22	775	420	600	1060	810	1750	300	22	175	1520	140	150	125
	30	775	420	600	1060	810	1750	300	22	175	1580	140	150	125
	37	775	420	600	1060	810	1750	400	22	247	1630	140	150	125
	45	785	430	640	910	710	1720	400	28	247	1609	140	150	125
FH125-400	30	855	455	600	1060	810	1750	300	22	175	1580	140	150	125
	37	855	455	600	1060	810	1750	400	22	247	1630	140	150	125
	45	855	455	600	1060	810	1750	400	22	247	1650	140	150	125
	55	855	455	600	1060	810	1750	400	22	247	1740	140	150	125
	75	855	455	670	1060	880	1750	400	22	247	1785	140	150	125
FH125-500	75	955	505	750	1120	820	2030	450	28	297	1924	160	150	125
	90	955	505	750	1120	820	2030	450	28	297	1969	160	150	125
	110	955	505	750	1120	820	2030	450	28	297	2173	160	150	125
	132	955	505	750	1120	820	2030	450	28	297	2244	160	150	125
FH150-315	30	865	465	640	910	710	1720	400	28	247	1743	160	200	150
	37	865	465	640	910	710	1720	400	28	247	1784	160	200	150
	45	865	465	640	910	710	1720	400	28	247	1809	160	200	150
	55	865	465	640	910	710	1720	400	28	247	1882	160	200	150
	75	865	465	750	1120	1120	2030	400	28	297	1924	160	200	150
FH150-400	45	915	465	640	910	910	1720	400	28	247	1809	160	200	150
	55	915	465	640	910	910	1720	400	28	247	1882	160	200	150
	75	915	465	750	1120	1120	2030	450	28	297	1924	160	200	150
	90	915	465	750	1120	1120	2030	450	28	297	1969	160	200	150
	110	915	465	750	1120	1120	2030	450	28	297	2173	160	200	150
FH150-500	75	1050	550	750	1120	1120	2030	450	28	297	1924	160	200	150
	90	1050	550	750	1120	1120	2030	450	28	297	1969	160	200	150
	110	1050	550	750	1120	1120	2030	450	28	297	2173	160	200	150
	132	1050	550	750	1120	1120	2030	450	28	297	2244	160	200	150
	160	1050	550	750	1120	1120	2030	450	28	297	2244	160	200	150
FH200-315	30	915	465	640	910	910	1720	400	28	247	1963	180	250	200
	37	915	465	640	910	910	1720	400	28	247	1804	180	250	200
	45	915	465	640	910	910	1720	400	28	247	1829	180	250	200
	55	915	465	640	910	910	1720	400	28	247	1902	180	250	200
	75	915	465	750	1120	1120	2030	450	28	247	1944	180	250	200

Unit:mm

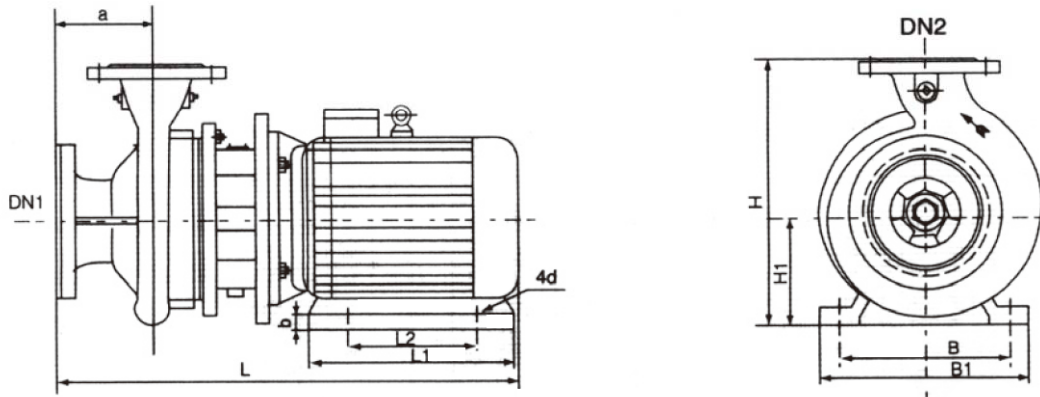
1450rpm

Motor		H1	H2	HC1	HC2	BW	BL	BP	BH	OH	UL	FC	DNS	DND
Type	Power(kW)													
FH200-400	75	1005	505	750	1120	1120	2030	450	28	297	1944	180	250	200
	90	1005	505	750	1120	1120	2030	450	28	297	1989	180	250	200
	110	1005	505	750	1120	1120	2030	450	28	297	2193	180	250	200
	132	1005	505	750	1120	1120	2030	450	28	297	2264	180	250	200
	160	1005	505	750	1120	1120	2030	450	28	297	2264	180	250	200
FH250-300	18.5	970	570	760	1300	1010	2100	300	22	175	1980	225	250	250
	30	990	590	860	1450	1110	2260	300	22	175	2075	225	250	250
	37	990	590	860	1450	1110	2260	400	22	247	2125	225	250	250
	45	990	590	860	1450	1110	2260	400	22	247	2145	225	250	250
	55	1010	610	860	1650	1110	2450	400	22	247	2235	225	250	250
	75	1010	610	860	1650	1110	2450	400	22	247	2280	225	250	250
	90	1010	610	860	1650	1110	2450	450	22	297	2345	225	250	250
FH250-330	55	1040	640	860	1450	1110	2240	400	22	247	2095	250	250	250
	75	1040	640	860	1450	1110	2240	400	22	247	2140	250	250	250
	90	1040	640	860	1450	1110	2240	450	22	297	2205	250	250	250
	110	1060	660	860	1650	1110	2450	450	22	297	2385	250	250	250
	132	1060	660	860	1650	1110	2450	450	22	297	2495	250	250	250
FH250-400	75	1120	640	860	1450	1110	2260	400	22	297	2070	180	300	250
	90	1120	640	860	1450	1110	2260	450	22	297	2135	180	300	250
	110	1140	660	860	1650	1110	2450	450	22	297	2315	180	300	250
	132	1140	660	860	1650	1110	2450	450	22	297	2425	180	300	250
	160	1125	565	620	1140	1140	1790	450	28	297	1955	180	250	200
FH300-340	37	1070	620	860	1450	1110	2260	500	22	297	2175	255	300	300
	45	1070	620	860	1650	1110	2450	500	22	355	2195	255	300	300
	55	1070	620	860	1650	1110	2450	500	22	355	2285	255	300	300
	75	1090	640	860	1650	1110	2450	500	22	355	2330	255	300	300
	90	1090	640	860	1650	1110	2450	550	22	420	2395	255	300	300
	110	1090	640	860	1800	1110	2590	550	22	420	2575	255	300	300
	132	1110	660	860	1800	1110	2590	550	22	420	2685	255	300	300
FH300-360	90	1180	730	860	1650	1110	2450	550	22	420	2307	300	300	300
	110	1200	750	860	1650	1110	2450	550	22	420	2487	300	300	300
	132	1200	750	860	1650	1110	2450	550	22	420	2597	300	300	300
FH300-400	110	1250	750	860	1650	1110	2450	550	22	420	2485	300	350	300
	132	1250	750	860	1650	1110	2450	550	22	420	2595	300	350	300

Unit:mm

### FHC Pump Installation Diagram

2900rpm



MOTOR		DN1	DN2	L	L1	L2	A	H	H1	B	B1	b	d
TYPE	Power(kW)												
FHC32-160	3	50	32	491	188	140	80	280	120	160	198	14	Φ12
	4	50	32	514	190	140	80	280	120	190	225	14	Φ12
	5.5	50	32	624	240	140	80	280	120	216	255	16	Φ12
FHC32-200	5.5	50	32	624	240	140	80	340	160	216	255	16	Φ12
	7.5	50	32	624	240	140	80	340	160	216	255	16	Φ12
	11	50	32	754	287	210	80	340	160	254	314	17	Φ12
FHC40-200	7.5	65	40	624	240	140	100	340	160	216	255	16	Φ12
	11	65	40	754	287	210	100	340	160	254	314	17	Φ15
	15	65	40	754	287	210	100	340	160	254	314	17	Φ15
FHC40-250	11	65	40	754	287	210	100	450	180	254	314	17	Φ15
	15	65	40	754	287	210	100	450	180	254	314	17	Φ15
	18.5	65	40	793	331	210	100	450	180	254	314	17	Φ15
	22	65	40	832	291	241	100	450	180	279	245	22	Φ17
	30	65	40	916	377	305	100	450	180	318	388	25	Φ19
FHC40-315	22	65	40	832	291	241	100	505	225	279	345	22	Φ15
	30	65	40	916	377	305	125	505	225	318	388	25	Φ19
	37	65	40	862	377	305	125	505	225	318	388	25	Φ19
	45	65	40	989	433	286	125	505	225	356	436	25	Φ19
FHC50-160	4	65	50	514	190	140	100	340	120	190	225	14	Φ12
	5.5	65	50	624	240	140	100	340	160	216	255	16	Φ12
	7.5	65	50	624	240	140	100	340	160	216	255	16	Φ12
FHC50-200	11	80	50	255	287	210	100	360	160	254	314	17	Φ15
	15	80	50	255	287	210	100	360	160	254	314	17	Φ15
	18.5	80	50	800	331	210	100	360	160	254	314	17	Φ15
	22	80	50	832	291	241	100	360	160	279	345	22	Φ17
FHC50-250	22	80	50	832	291	241	100	405	180	279	345	22	Φ17
	30	80	50	916	377	305	100	405	180	318	388	25	Φ19
	37	80	50	962	377	305	100	405	180	318	388	25	Φ19
	45	80	50	989	433	286	100	405	180	318	388	25	Φ19
FHC50-315	30	80	50	916	377	305	100	505	225	318	388	25	Φ19
	37	80	50	962	377	305	125	505	225	318	388	25	Φ19
	45	80	50	989	433	286	125	505	225	318	388	25	Φ19
	55	80	50	1099	524	349	125	505	225	406	486	33	Φ24
	75	80	50	1099	524	349	125	505	225	457	542	35	Φ24
FHC65-160	5.5	80	65	680	240	140	125	360	160	216	255	16	Φ12
	7.5	80	65	682	240	140	100	360	160	216	255	16	Φ12
	11	80	65	710	287	210	100	360	160	254	314	17	Φ15
	15	80	65	761	287	210	100	360	160	254	314	17	Φ15

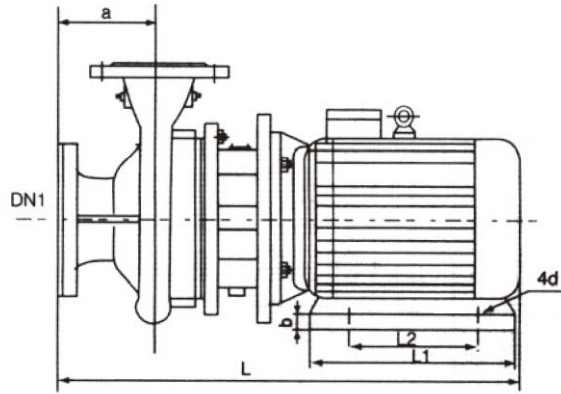
Unit:mm

2900rpm

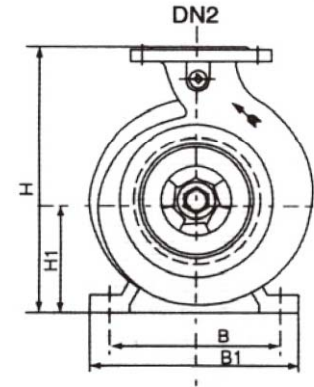
MOTOR		DN1	DN2	L	L1	L2	A	H	H1	B	B1	b	d
TYPE	Power(kW)												
FHC65-200	18.5	100	65	793	331	210	100	385	160	254	314	17	Φ15
	22	100	65	823	291	241	100	385	160	279	345	22	Φ15
	30	100	65	923	377	305	100	385	160	318	388	25	Φ19
	37	100	65	962	377	305	100	385	160	318	388	25	Φ19
FHC65-250	30	100	65	962	377	305	100	430	200	318	388	25	Φ19
	37	100	65	962	377	305	100	430	200	318	388	25	Φ19
	45	100	65	987	433	286	100	430	200	356	436	28	Φ19
	55	100	65	1099	524	349	100	430	200	406	486	33	Φ24
	75	100	65	1099	478	308	100	430	200	406	486	35	Φ24
FHC65-315	55	100	65	1097	524	349	125	505	225	406	486	33	Φ24
	75	100	65	1097	478	368	125	505	225	457	542	35	Φ24
	90	100	65	1172	529	419	140	505	225	457	542	35	Φ24
	110	100	65	1497	670	457	140	505	225	508	628	45	Φ28
FHC80-160	11	100	80	762	287	210	125	425	180	254	314	17	Φ15
	15	100	80	762	287	210	125	425	180	254	314	17	Φ15
	18.5	100	80	807	331	210	125	425	180	254	314	17	Φ15
FHC100-200	30	125	100	914	377	305	125	495	215	318	368	25	Φ19
	37	125	100	934	377	305	125	495	215	318	388	25	Φ19
	45	125	100	989	433	286	125	495	215	356	436	28	Φ19
	55	125	100	1099	524	349	125	495	215	406	576	33	Φ24
	75	125	100	1097	478	368	125	495	215	457	542	35	Φ24
FHC100-250	55	125	100	1099	524	349	125	495	215	356	436	28	Φ19
	75	125	100	1097	478	368	140	505	225	457	542	35	Φ24
	90	125	100	1172	529	419	140	505	225	457	542	35	Φ24
	110	125	100	1497	670	475	140	505	225	508	628	45	Φ28
FHC100-315	90	125	100	1172	529	419	140	565	250	457	542	35	Φ24
	110	125	100	1497	670	457	140	565	250	457	542	35	Φ24
	132	125	100	1685	750	568	140	565	250	562	630	45	Φ30
	160	125	100	1764	830	688	140	565	250	644	728	50	Φ33

Unit:mm

### FHC Pump Installation Diagram



1450rpm



MOTOR		DN1	DN2	L	L1	L2	A	H	H1	B	B1	b	d
TYPE	Power(kW)												
FHC32-160	0.55	50	32	411	140	100	80	280	120	125	160	10	Φ10
	0.75	50	32	415	145	100	80	280	120	125	160	10	Φ10
FHC32-200	0.55	50	32	412	140	100	80	340	160	125	160	10	Φ10
	0.75	50	32	412	140	100	80	340	160	125	160	10	Φ10
	1.1	50	32	454	162	100	80	340	160	140	174	13	Φ10
	1.5	50	32	460	170	100	80	340	160	145	180	13	Φ10
FHC40-200	1.1	65	40	454	162	100	100	340	160	140	174	13	Φ10
	1.5	65	40	454	162	100	100	340	160	140	174	13	Φ10
	2.2	65	40	491	188	140	100	340	180	160	198	14	Φ12
FHC40-250	1.5	65	40	454	162	100	100	405	160	140	174	14	Φ12
	2.2	65	40	491	188	140	100	405	180	160	198	14	Φ12
	3	65	40	491	188	140	100	405	180	140	198	14	Φ12
	4	65	40	520	190	140	100	405	180	190	225	14	Φ12
FHC40-315	3	65	40	491	188	140	125	460	200	160	198	16	Φ12
	4	65	40	520	190	140	125	460	200	190	225	16	Φ12
	5.5	65	40	646	240	140	125	460	200	216	225	16	Φ12
FHC50-160	0.55	65	50	412	140	100	100	340	160	140	174	10	Φ10
	0.75	65	50	412	140	100	100	340	160	140	174	10	Φ10
	1.1	65	50	454	162	100	100	340	160	140	174	13	Φ10
FHC50-200	1.5	80	50	455	162	100	100	360	160	140	174	13	Φ10
	2.2	80	50	492	188	140	100	360	160	160	198	14	Φ12
	3	80	50	492	188	140	100	360	160	160	198	14	Φ12
	3	80	50	492	188	140	100	405	180	160	198	14	Φ12
FHC50-250	4	80	50	514	190	140	100	405	180	10	225	14	Φ12
	5.5	80	50	646	240	140	100	405	180	216	255	14	Φ12
	4	80	50	514	190	140	125	505	225	190	225	16	Φ12
FHC50-315	5.5	80	50	646	240	140	125	505	225	216	255	16	Φ12
	7.5	80	50	649	240	140	125	505	225	216	255	16	Φ12
	0.75	80	65	412	140	100	100	360	160	125	160	13	Φ12
FHC65-160	1.1	80	65	460	162	100	100	360	160	140	174	13	Φ10
	1.5	80	65	460	162	100	100	360	160	140	174	13	Φ10
	3	100	65	498	188	140	100	385	160	160	198	14	Φ12
FHC65-200	4	100	65	646	240	140	100	385	160	216	255	14	Φ15
	5.5	100	65	520	190	140	100	385	16	190	225	14	Φ15
	4	100	65	520	190	140	100	430	200	190	225	16	Φ15
FHC65-250	5.5	100	65	647	240	140	100	430	200	216	255	16	Φ12
	7.5	100	65	647	240	140	100	430	200	216	255	16	Φ12

Unit:mm

1450rpm

MOTOR		DN1	DN2	L	L1	L2	A	H	H1	B	B1	b	d
TYPE	Power (kW)												
FHC65-315	7.5	100	65	647	240	210	125	505	225	216	255	17	Φ15
	11	100	65	754	287	210	125	505	225	254	314	17	Φ15
	15	100	65	802	331	210	125	50	225	254	314	17	Φ15
FHC80-160	1.5	100	80	454	162	140	125	425	180	140	174	14	Φ12
	2.2	100	80	499	188	140	125	425	180	160	198	14	Φ12
	3	100	80	499	188	140	125	425	180	160	198	14	Φ12
FHC80-400	15	125	80	802	331	210	125	565	250	254	314	25	Φ19
	18.5	125	80	807	331	210	125	565	250	254	314	25	Φ19
	22	125	80	832	240	241	125	565	250	279	345	25	Φ19
	30	125	80	932	377	305	125	565	250	318	388	25	Φ19
	37	125	80	932	377	305	125	565	250	318	388	25	Φ19
FHC100-200	4	125	100	520	190	140	125	450	200	190	225	16	Φ12
	5.5	125	100	649	240	140	125	450	200	216	255	16	Φ12
	7.5	125	100	649	240	140	125	450	200	216	255	16	Φ12
FHC100-250	7.5	125	100	649	240	140	140	505	200	216	314	17	Φ15
	11	125	100	757	287	210	140	505	225	254	314	17	Φ15
	15	125	100	802	331	210	140	505	225	254	314	17	Φ15
FHC100-315	11	125	100	757	287	210	140	565	250	254	314	17	Φ15
	15	125	100	802	331	210	140	565	250	254	3214	17	Φ15
	18.5	125	100	832	291	241	140	565	250	279	345	22	Φ15
	22	125	100	872	329	279	140	565	250	279	345	22	Φ15
	30	125	100	914	377	305	140	565	250	318	388	25	Φ19
FHC100-400	22	125	100	972	329	279	140	565	250	279	345	22	Φ15
	30	125	100	914	377	305	140	565	250	318	388	25	Φ19
	37	125	100	932	377	305	140	565	250	318	388	25	Φ19
	45	125	100	987	383	296	140	565	250	356	436	28	Φ19
FHC125-250	11	150	125	757	287	210	140	605	250	254	314	17	Φ15
	15	150	125	803	331	210	140	605	250	254	314	17	Φ15
	18.5	150	125	833	291	241	140	605	250	279	345	22	Φ15
	22	150	125	873	329	279	140	605	250	279	345	22	Φ15
FHC125-315	18.5	150	125	833	291	241	140	605	250	279	345	22	Φ15
	22	150	125	873	329	279	140	605	250	279	3245	22	Φ15
	30	150	125	914	377	305	140	605	250	279	388	25	Φ19
	37	150	125	932	377	305	140	605	250	279	388	25	Φ19
FHC125-400	37	150	125	932	377	305	165	645	300	294	432	25	Φ19
	45	150	125	987	433	286	165	645	300	356	436	28	Φ19
	55	150	125	1097	524	349	165	645	300	406	486	33	Φ24
	75	150	125	1097	478	368	165	645	300	457	542	35	Φ24

Unit:mm

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