

MCKARLEN

McKarlen Vietnam

Public Technical Copy
Public Version: 2026.08

Please read the instruction manual carefully before use

MCKARLEN



**Vertical
multistage pump
instruction
manual**

GOOD PUMP FOR BETTER LIFE



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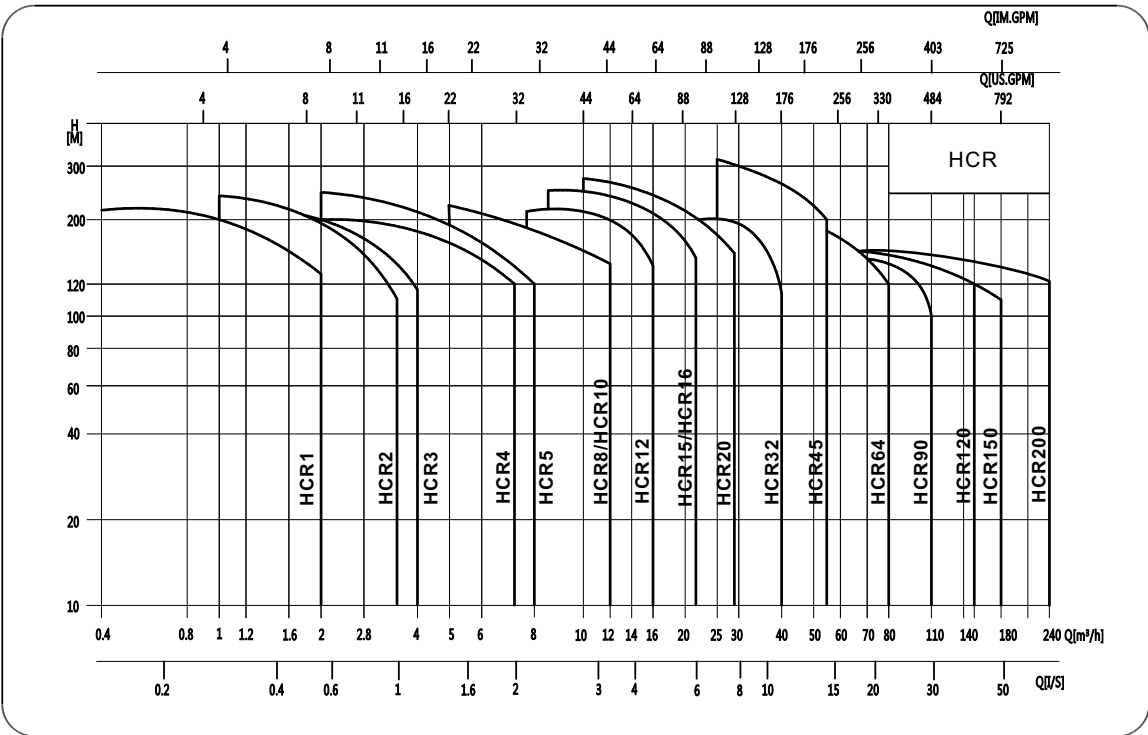
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Product Introduction

- The HCR, pumps are stainless steel light vertical multi-stage centrifugal pumps with different structures but the same hydraulic performance.
- With ducted structures, they may be directly installed in horizontal pipeline systems to get compact structures and save space.
 - The HCR pumps have different specifications and stages to comply with different flow rates and pressures.
 - The HCR pumps have a wide variety of applications. They may be used for conveying drinking water and chemical mediums, or in various systems.
 - Each HCR pump consists essentially of a motor and a pump head. Pumps of different materials may be chosen according to different mediums to be conveyed.
 - The HCR pumps are applicable to clean and slightly corrosive liquids such as salt water and acids.
- 

General data

Performance ranges HCR



General data

Product range

Description	HCR1	HCR2	HCR3	HCR4	HCR5	HCR8	HCR10	HCR12	HCR15	HCR16	HCR20	HCR32	HCR45	HCR64	HCR90	HCR120	HCR150	HCR200
Rated folw rate [m³/h]	1	2	3	4	5	8	10	12	15	16	20	32	45	64	90	120	150	200
Rated folw rate [l/s]	0.28	0.56	0.83	1.1	1.39	2.2	2.8	3.3	4.2	4.4	5.6	8.9	11.7	18	24	33	42	55.6
Flow rate range [m³/h]	0.4-2	1-3.5	1.2-4	1.5-8	2.5-2.8	5-12	5-13	7-16	9-24	3-21	3-21	16-40	25-55	30-80	50-110	60-150	80-180	100-240
Flow rate range [l/s]	0.11-0.56	0.28-0.97	0.33-1.1	0.42-2.2	0.69-2.36	1.4-3.3	1.4-3.61	1.9-4.4	2.5-6.7	0.8-6	2.8-7.8	4.4-11.1	6.9-15.3	8.3-22.2	13.8-30.5	17-42	22-50	27.8/-66.7
Maximum pressure [bar]	21	23	22	21	24	21	22	22	23	23	23	26	30	22	17	16	16	16
Motor power[kw]	0.37-2.2	0.37-3	0.37-3	0.37-4	0.37-5.5	0.75-7.5	0.37-7.5	1.5-11	1.1-15	1.1-15	1.1-18.5	1.5-30	3.0-45	4.0-45	5.5-45	11-75	11-75	18.5-110
Temperature range[°C]																		
Peak efficiency[%]	44	46	54	59	66	64	70	63	72	72	69	76	78	80	81	75	75	79
pipe connection																		
DIN flange	DN25	DN25	DN25	DN32	DN32	DN40	DN40	DN50	DN50	DN50	DN50	DN65	DN80	DN100	DN100	DN125	DN125	DN150
Ferrule fitting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pipe thread	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Applications

The HCR pumps are multi-functional products. They may be used for conveying diversified mediums such as running water and industrial liquids. They are applicable to different temperature ranges, flow ranges, and pressure ranges. The HCR pumps to slightly corrosive liquids.

- Water supply: filtering, conveying, zoning based water supply, and main pipe pressurization of water plants, and pressurization of high-rise buildings.
- Industrial pressurization: process water systems, cleaning systems, high-pressure flushing systems, and fire fighting systems.
- Conveying of industrial liquids: cooling and air-conditioning systems, boiler water supply and condensation systems, supporting facilities of machines, acids, and alkalis.
- Water treatment: Ultrafiltration systems, reverse osmosis systems, distillation systems, separators, and swimming pools
- Irrigation: farm irrigation, sprinkling irrigation, and drip irrigation

Operating conditions

- Thin, clean, non-inflammable, non-explosive liquids containing neither solid particles nor fibers
- Liquid temperature: Room temperature type: -15°C to +70°C
Hot water type: +70°C to +120°C
- Ambient temperature: +40°C at most
- Altitude: 1000m (this altitude would be the best)

Pumps

The HCR pumps are stainless steel light vertical multi-stage centrifugal pumps characterized by high Pumps efficiency, low noise, compact structure, beautiful appearance, small volume, light weight, convenient operation and maintenance, reliable sealing performance, no secondary pollution for the conveyed liquids, slight corrosion resistance, etc. They may be provided with intelligent protectors as required to provide effective protection for their running without water, open-phase phenomenon, and overload.

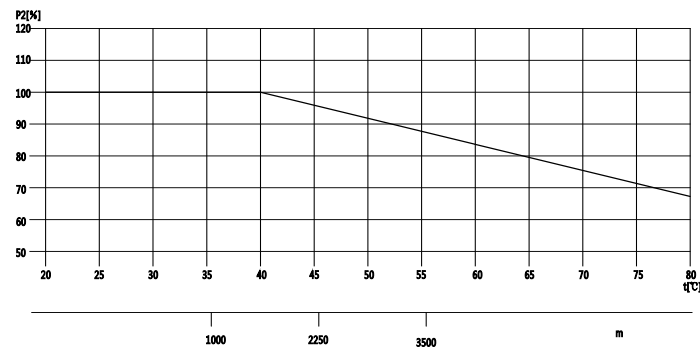
General data

Motors

- The pumps may be provided with standard air-cooled motors, or standard water-cooled low-noise motors.
- If the motors are totally sealed, air-cooled, two-stage standard motors (0.37KW to 45KW)
 - Installation method: B14 for power smaller than 11KW (including), B5 for power between 15KW to 18.5KW, or V1 for power larger than 22KW
 - Protection grade: IP55
 - Insulation class: F
 - Standard voltage:50Hz
1x220-230/240V (O.37KW-2.2KW)
3x200-220/346-380V
3x220-240/380-415V
3x380-415V
 - If the motors are totally sealed, water-cooled, low-noise, two-stage standard motors (5.5KW to 45KW)
 - Installation method: B14 for power smaller than 11KW (including), B5 for power between 15KW to 18.5KW, or V1 for power larger than 22KW
 - Protection grade: IP55
 - Insulation class: F
 - Standard voltage: 50Hz: 3×380-415V
 - The motor configuration proposal available for special applications or operating conditions
 - Explosion-proof motors
 - Low-noise motors
 - Motors with thermal protection
 - Motors of the exported stainless steel multi-stage pumps may be configured as required by customers.

Technical parameters

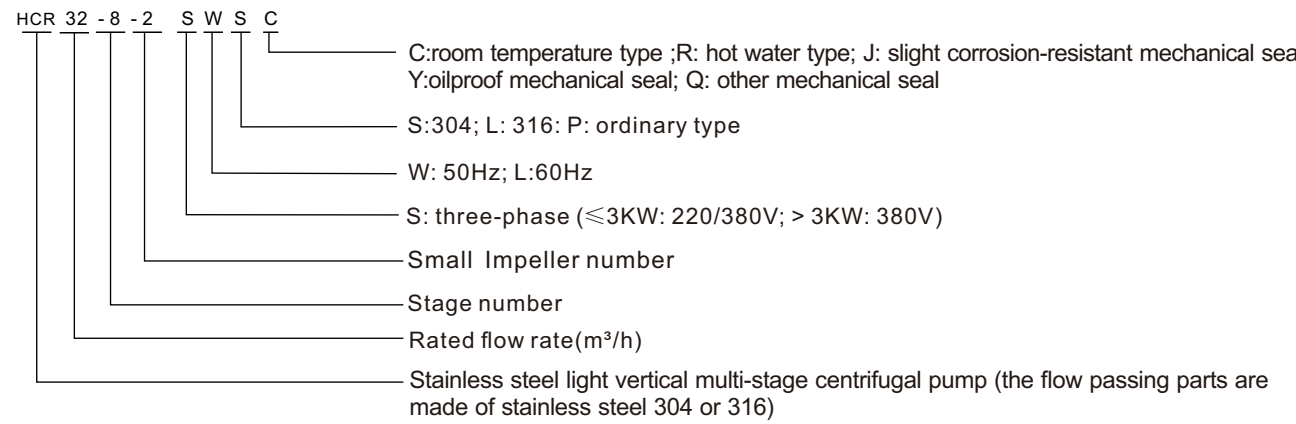
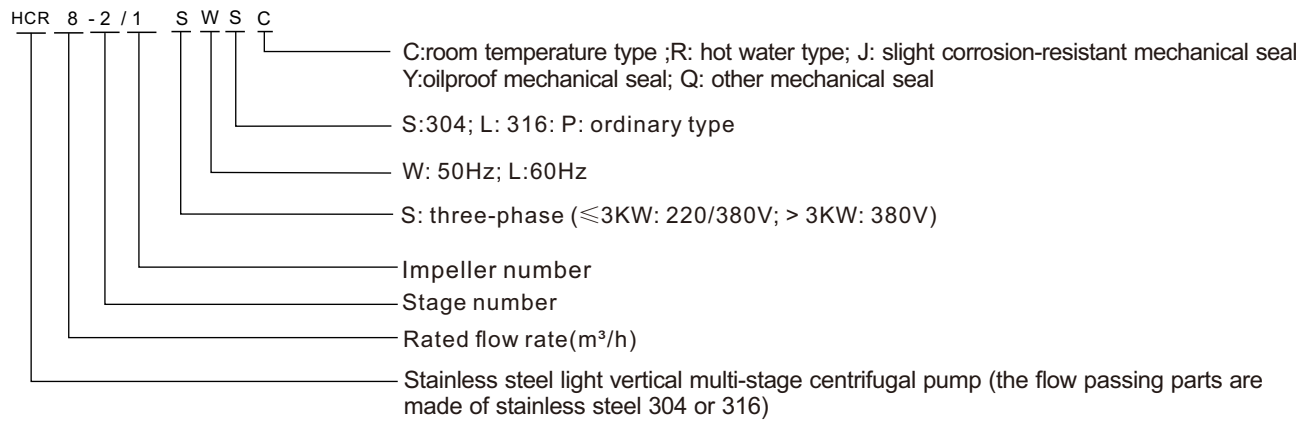
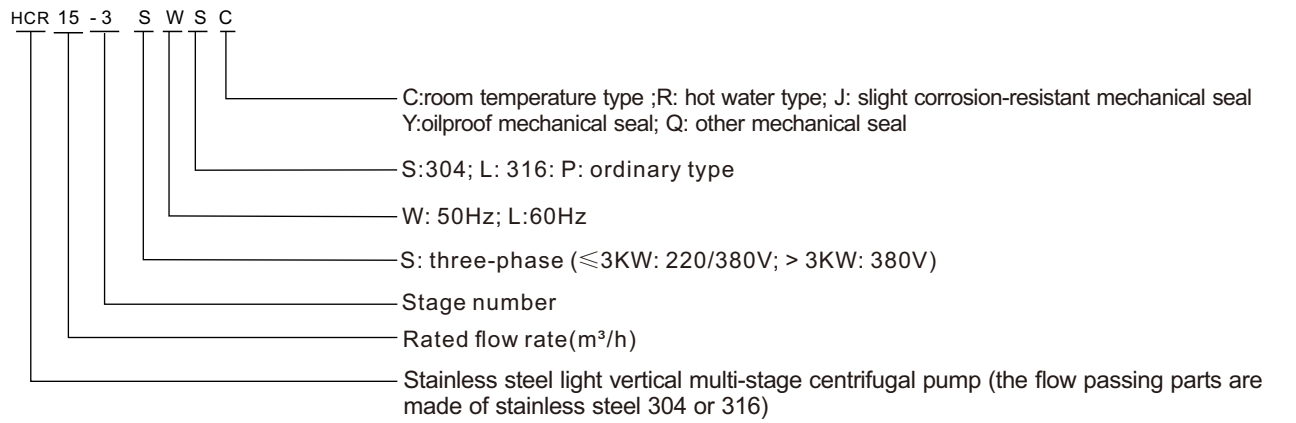
- Operating environment
The highest operating temperature of the pumps is +40°C. If the pumps are used at a temperature above +40°C, or their motors are installed at an altitude higher than 1000m, the output power of the motors will drop. See the figure below, In this circumstance, motors with larger output power are needed.



- Viscosity
If the densities or kinematic viscosities of the output by the liquids are larger than that of water, pressure and hydraulic performance of the pumps will change greatly and the power consumptions of them will increase. In this circumstance, motors with larger power are needed.

General data

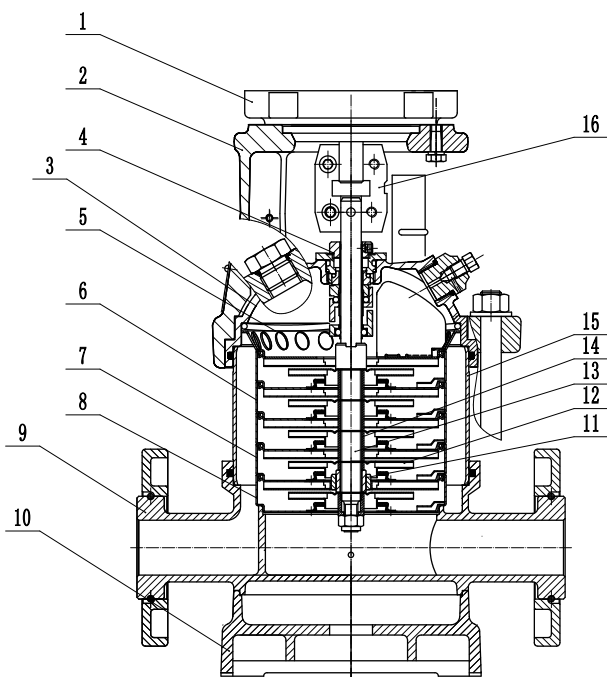
Model meaning



General data

Sectional views
HCR1,2,3,4,5

Materials
HCR1,2,3,4,5

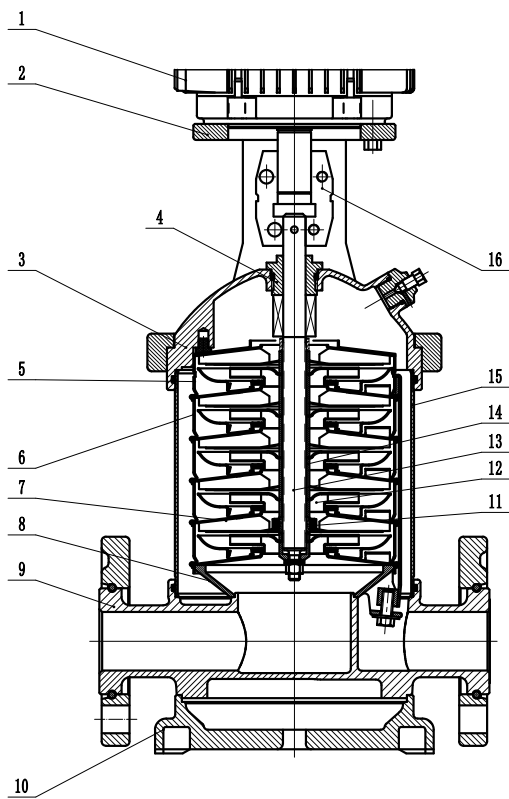


No	Name	Material	AISI/ASTM
1	Motor		
2	Connecting base	Cast iron	ASTM25B
3	Connecting base lining cover	Stainless steel	AISI304
4	Cartridge mechanical seal		
5	Outlet fluid director	Stainless steel	AISI304
6	Fluid director	Stainless steel	AISI304
7	Bearing fluid director	Stainless steel	AISI304
8	Inlet fluid director	Stainless steel	AISI304
9	Inlet/outlet section	Stainless steel	AISI304
10	Base	Cast iron	ASTM25B
11	Bearing	Tungsten carbide	
12	Impeller	Stainless steel	AISI304
13	Shaft	Stainless steel	AISI304 AISI316
14	Jacket	Stainless steel	AISI304
15	Chamber	Stainless steel	AISI304
16	Coupling	Carbon steel	

General data

Sectional views
HCR8,10,12,15,16,20

Materials
HCR8,10,12,15,16,20

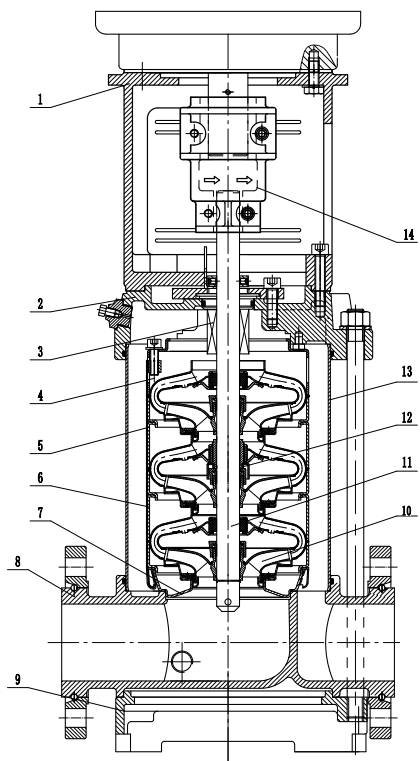


No	Name	Material	AISI/ASTM
1	Motor		
2	Connecting base	Cast iron	ASTM25B
3	Connecting base lining cover	Stainless steel	AISI304
4	Cartridge mechanical seal		
5	Outlet fluid director	Stainless steel	AISI304
6	Fluid director	Stainless steel	AISI304
7	Bearing fluid director	Stainless steel	AISI304
8	Inlet fluid director	Stainless steel	AISI304
9	Inlet/outlet section	Stainless steel	AISI304
10	Base	Cast iron	ASTM25B
11	Bearing	Tungsten carbide	
12	Impeller	Stainless steel	AISI304
13	Shaft	Stainless steel	AISI304 AISI316
14	Jacket	Stainless steel	AISI304
15	Chamber	Stainless steel	AISI304
16	Coupling	Carbon steel	

General data

Sectional views
HCR32,45,64,90

Materials
HCR32,45,65,90

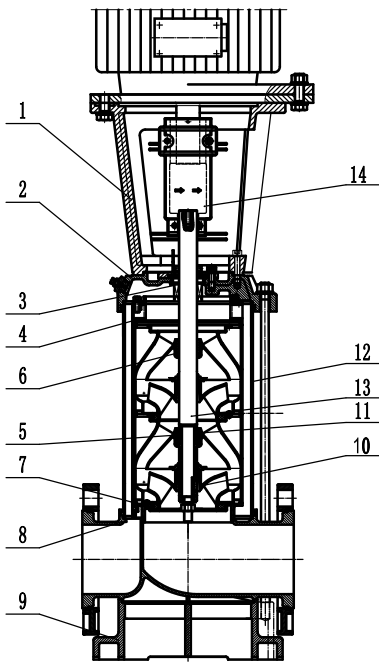


No	Name	Material	AISI/ASTM
1	Connecting base	Cast iron	ASTM25B
2	Pump cover	Stainless steel	AISI304
3	Cartridge mechanical seal		
4	End-pole middle-section part	Stainless steel	AISI304
5	Bearing middle-section part	Stainless steel	AISI304
6	Middle-section part	Stainless steel	AISI304
7	Inlet section part	Stainless steel	AISI304
8	Inlet/outlet section	Stainless steel	AISI304
9	Base	Cast iron	ASTM25B
10	Impeller	Stainless steel	AISI304
11	Shaft	Stainless steel	AISI304 AISI316
12	Bearing sleeve subassembly	Tungsten carbide	
13	Chamber	Stainless steel	AISI304
14	Coupling	Carbon steel	
	Rubber part	EPDM/FKM	

General data

Sectional views
HCR120,150,200

Materials
HCR120,150,200



No	Name	Material	AISI/ASTM
1	Connecting base	Cast iron	ASTM25B
2	Pump cover	Stainless steel	AISI304
3	Cartridge mechanical seal		
4	Outlet section part	Stainless steel	AISI304
5	Bearing middle-section part	Stainless steel	AISI304
6	Middle-section part	Stainless steel	AISI304
7	Inlet section part	Stainless steel	AISI304
8	Inlet/outlet section	Stainless steel	AISI304
9	Base	Cast iron	ASTM25B
10	Impeller	Stainless steel	AISI304
11	Bearing sleeve subassembly	Tungsten carbide	
12	Chamber	Stainless steel	AISI304
13	Shaft	Stainless steel	AISI304 AISI316
14	Coupling	Carbon steel	
	Rubber part	EPDM/FKM	

General data

Maximum inlet pressure
(see Table 1)

Table 1 gives the permissible maximum inlet pressure; however, sum of the actual inlet pressure and the valve-closing pressure must always be smaller than the permissible maximum operating pressure. If the sum is larger than the permissible maximum operating pressure of the pump, the bearing in the motor will possibly get damaged and the shaft seal will have a shorter life. Hereunder are some examples about the operating pressure and the inlet pressure.

(Example 1):
Pump type: HCR8-8
Maximum operating pressure: 16bar
Maximum inlet pressure: 10bar
If the pump is started at an outlet valve-closing pressure of 8.7bar, the inlet pressure must be smaller than 7.3bar (the difference of 16bar and 8.7bar).

(Example 2):
Pump type:HCR10-2
Maximum operating pressure:16bar
Maximum inlet pressure: 6.0bar
In the case of an outlet valve-closing pressure of 2.0bar, the pump is allowed to be started at an inlet pressure of 6.0bar. The outlet valve-closing pressure is 2.0bar only and the actual motion pressure of the pump will be 8.0bar (sum of 6.0bar and 2.0bar) that is not larger than the permissible maximum operating pressure.

(Table 1):

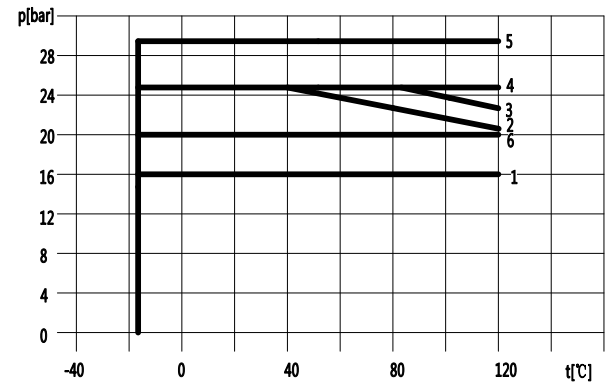
Model	Maximum inlet pressure
HCR 1	
1-2~1-8	6[bar]
1-9~1-36	10[bar]
HCR 2	
2-2	6[bar]
2-3~2-11	10[bar]
2-13~2-26	15[bar]
HCR 3	
3-2~3-5	6[bar]
3-6~3-29	10[bar]
3-3~3-36	15[bar]
HCR 4/ HCR 5	
4-2	6[bar]
4-3~4-10	10[bar]
4-12~4-22	15[bar]
HCR 8/ HCR 10	
8-2/1~8-6	6[bar]
8-8~8-20	10[bar]
HCR 12	
12-2~12-4	6[bar]
12-5~12-18	10[bar]
HCR 15/ HCR 16	
15-2~15-8	6[bar]
15-10~15-17	10[bar]
HCR 20	
20-1~20-3	6[bar]
20-4~20-17	10[bar]
HCR 32	
32-1-1~32-2-2	3[bar]
32-2~32-4	4[bar]
32-5-2~32-10	10[bar]
32-11-2~32-14	15[bar]
HCR 45	
45-1-1	3[bar]
45-1~45-2	4[bar]
45-3-2~45-5	10[bar]
45-6-2~45-13-2	15[bar]
HCR 64	
64-1-1~64-2-2	4[bar]
64-2-1~64-3	10[bar]
64-4-2~64-8-1	15[bar]
HCR 90	
90-1-1~90-1	4[bar]
90-2-2~90-3-2	10[bar]
90-3-1~90-6	15[bar]
HCR 120,150,200	15[bar]

General data

Maximum operating pressure
(see Table 2)

Model	Curve number
HCR 1	
1-2~1-23	1
1-25~1-36	2
HCR 2	
2-2~2-15	1
2-18~2-26	2
HCR 3	
3-2~3-23	1
3-25~3-36	2
HCR 4/ HCR 5	
4-2~4-16	1
4-19~4-22	2
HCR 8/ HCR 10	
8-2/1~8-12	1
8-14~8-20	3
HCR 12	
12-2~12-10	1
12-12~12-18	3
HCR 15/ HCR 16	
15-2~15-8	1
15-10~15-17	3
HCR 20	
20-1~20-8	1
20-10~20-17	3
HCR 32	
32-1-1~32-7	1
32-8-2~32-12	4
32-13~32-14	5
HCR 45	
45-1-1~45-6	1
45-7-2~45-9	4
45-10-2~45-13-2	5
HCR 64	
64-1-1~64-5	1
64-6-2~64-8-1	4
HCR 90	
90-1-1~90-5-2	1
90-5~90-6	4
HCR 120,150,200	6

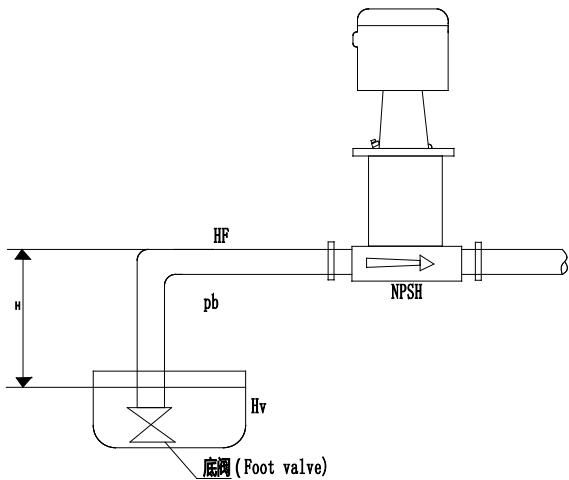
The figure below giver limits of pressure and temperature.
The actual pressure and temperatures must be within the ranges.



General data

Calculation of the minimum inlet pressure (see Fig.2)

Calculation formula of the minimum inlet pressure H (unit; mH₂O); $H=P_b \times 10.2 - NPSH - H_f - H_v - H_s$
P_b : the local atmospheric pressure (bar) (the standard atmospheric pressure is 1bar) (in a sealed pressure, P_b refers to the system pressure) (unit; bar)
NPSH: net positive suction head (unit: m) (it may be obtained from the NPSH performance curve of the sample pump)
H_f : wear loss in the pipe at the suction position (unit; m)
H_v: gasification pressure of the liquid (unit: m) (see Table 3)
H_s: safety margin (minimum; 0.5m)
If the obtained H value is positive, it means that the pump is capable of absorbing a liquid to a height of H; if it is negative, it means that the pump will have cavitations and there must be a head with a minimum inlet pressure of H.

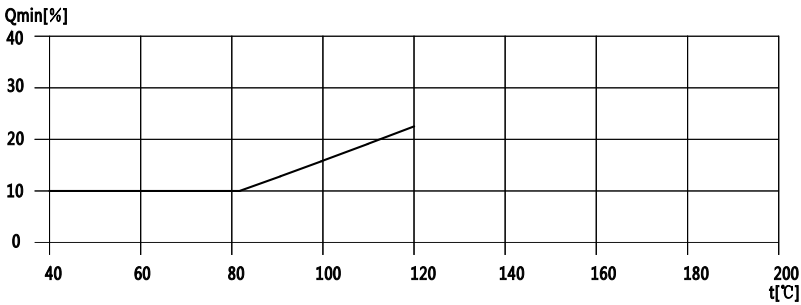


(Table 3 Temperature and Gasification Pressure)

water temperature (℃)	20	30	40	50	60	70	80	85	90	95	100	110	120	130	140
Gasification pressure	0.25	0.4	0.8	1.3	2.1	3.3	4.9	6.1	7.4	8.9	10.9	14.5	20.5	26.5	35

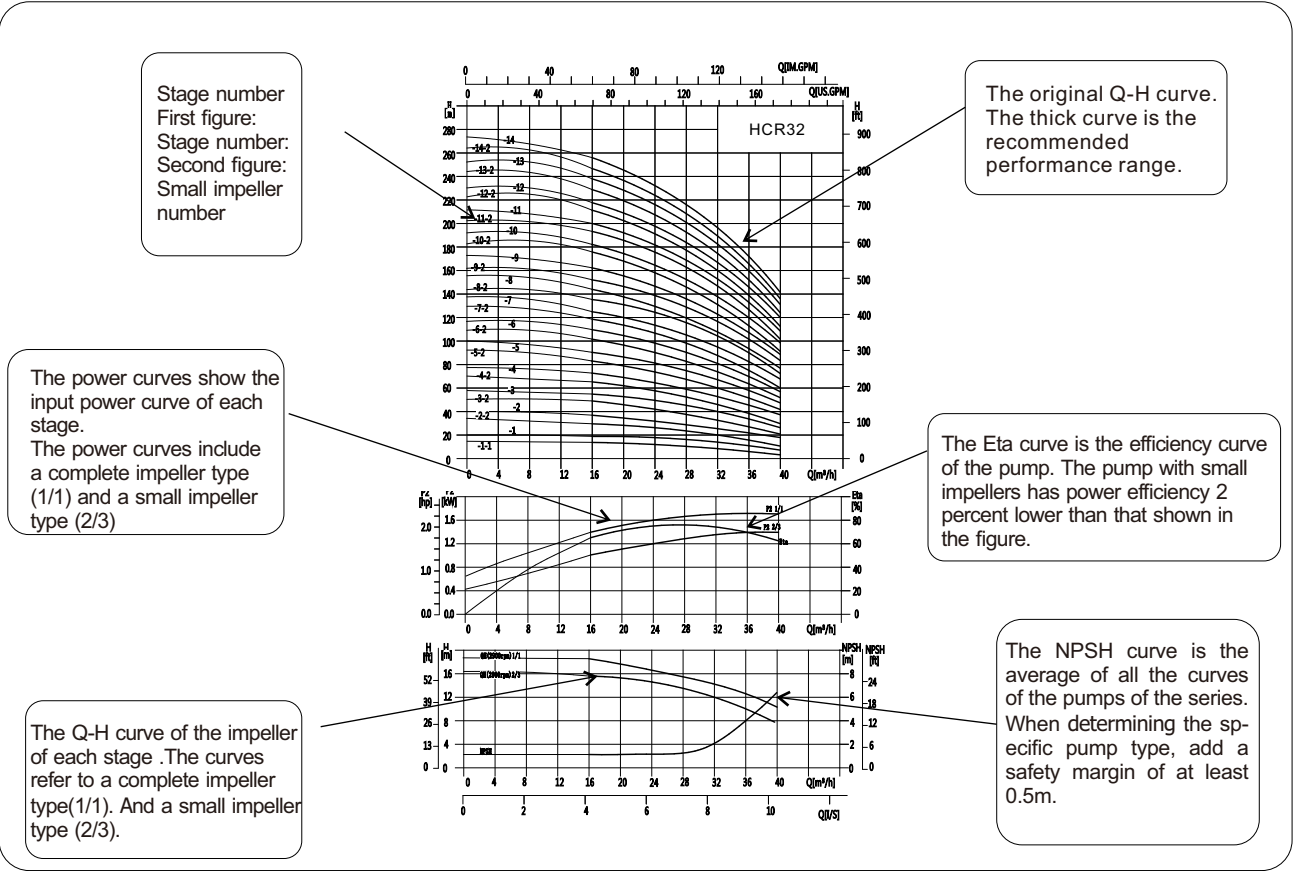
Minimum flow rate

There is an overheat risk, so the pump should not run with the minimum flow rate. The curve below shows the percentages of the minimum flow rate in the normal flow rate at the corresponding temperatures.



Note: the outlet valve must be opened when the pump is running.

Technical data



Performance curve

- The instructions below are applicable to the subsequent curves.
- 1、 All the curves are based on the values measured at a constant speed of 2900rpm or 2950rpm of the motor.
 - 2、 The curve tolerances comply with requirements of the ISO9906.
 - 3、 The tests are done for water with a temperature of 20℃ and a kinematic viscosity of 1mm²/s and without air.
 - 4、 Please refer to the performance ranges of the thick curves for pump operation, so as to avoid overheat because of a too small flow rate and motor overload because of a too large flow rate, etc.

Pump type selection

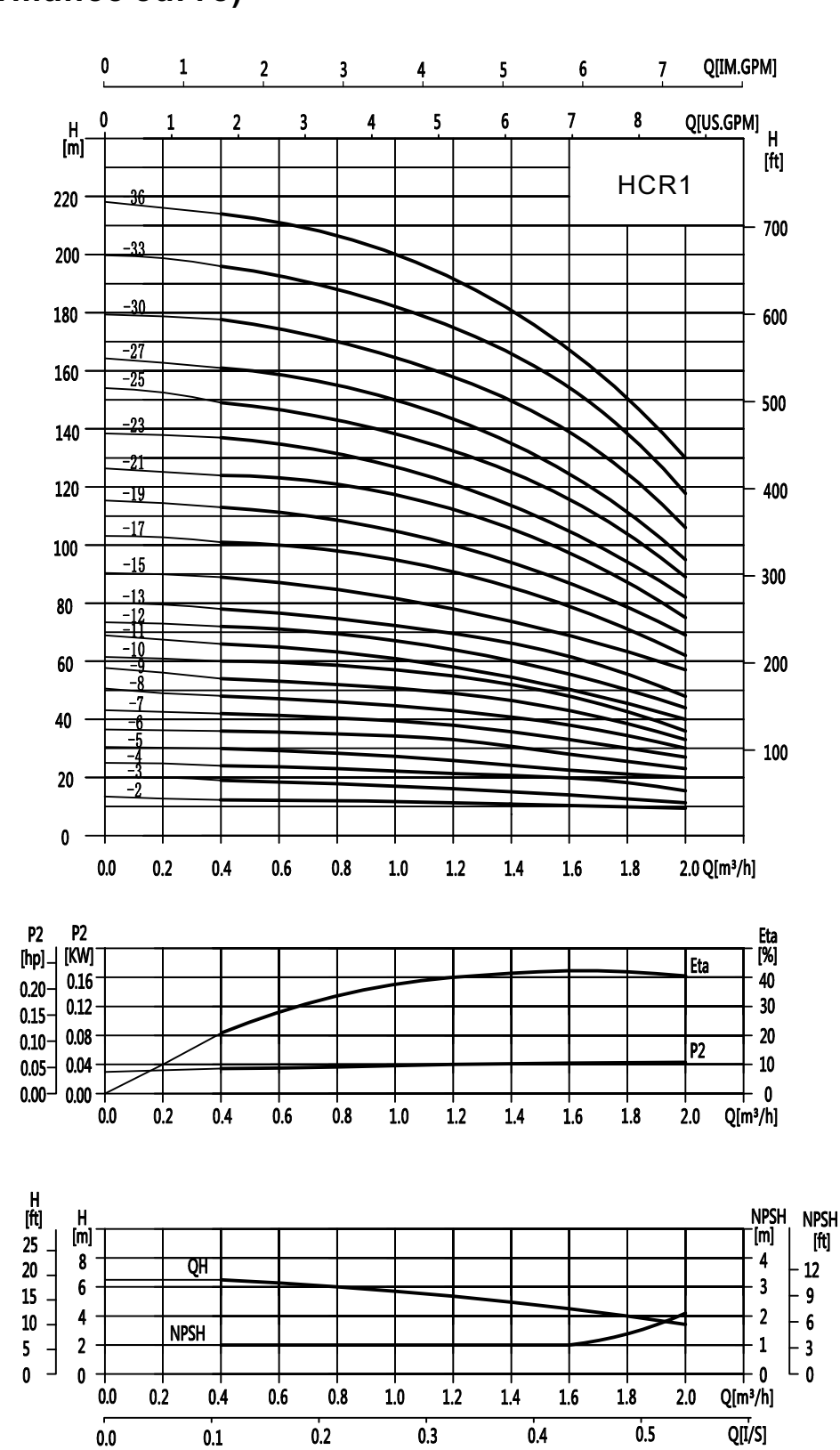
- Pump installation method
- Rated operating point of the pump (determined on the performance ranges)
- Liquid conveyed by the pump
- Connecting dimensions of the pump
- Shaft seal

Type selection data

- When the specifications are determined, the following factors must be considered:
- The flow rate and pressure necessary for the water outlet
 - The pressure loss because of the altitude difference
 - Pipeline resistance loss
 - Estimated highest efficiency under the rated operating point
 - NPSH

Technical data

(Performance curve)

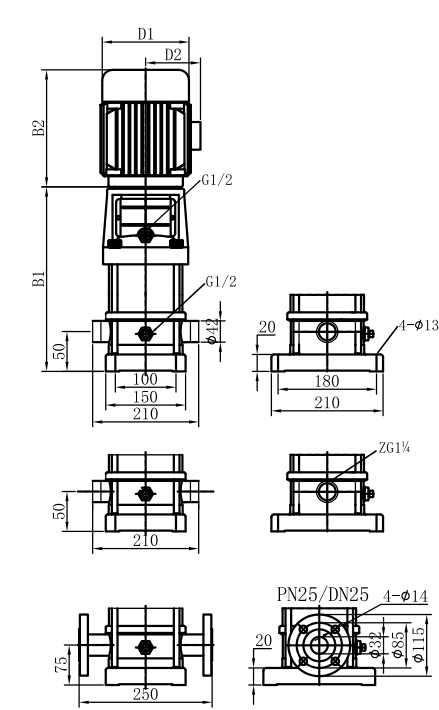


Technical data

(Performance table)

Model	Matching motor (KW)	Q (m³/h)	0.4	0.6	0.8	1	1.2	1.4	1.6	1.8	2.0
HCR1-2	0.37	H(m)	13	12.5	12	11.5	11	10.5	10	9.5	9
HCR1-3	0.37		19	18	17.5	17	16.5	16	15	14	12
HCR1-4	0.37		24	23.5	23	22.5	21.5	21	19	18	16
HCR1-5	0.37		30	29.6	29	28	27	26	24	22	20
HCR1-6	0.37		36	35.5	35	33.5	33	31	28	26	23
HCR1-7	0.37		42	41	40.5	39	38	36	33	30	27
HCR1-8	0.55		48	47	46	45	43	41	38	34	30
HCR1-9	0.55		54	53	52	51	49	46	43	39	33
HCR1-10	0.55		60	59	58	57	54	51	48	43	36
HCR1-11	0.55		66	65	63	61	59	56	52	47	40
HCR1-12	0.75		72	71	69	67	64	61	57	51	44
HCR1-13	0.75		78	77	75	73	69	66	62	55	47
HCR1-15	0.75		89	88	86	84	79	76	71	63	55
HCR1-17	1.1		101	99	97	95	89	86	80	71	62
HCR1-19	1.1		113	110	108	106	99	96	89	79	69
HCR1-21	1.1		124	122	120	117	110	106	98	87	75
HCR1-23	1.1		137	133	131	128	121	116	107	96	82
HCR1-25	1.5		149	145	143	139	131	126	116	104	89
HCR1-27	1.5		161	157	155	150	141	136	125	112	95
HCR1-30	1.5		178	175	171	166	157	150	139	124	106
HCR1-33	2.2		196	192	188	183	173	165	154	137	118
HCR1-36	2.2		214	210	205	200	190	181	169	151	130

(Installation drawing)



(Dimensions and weight)

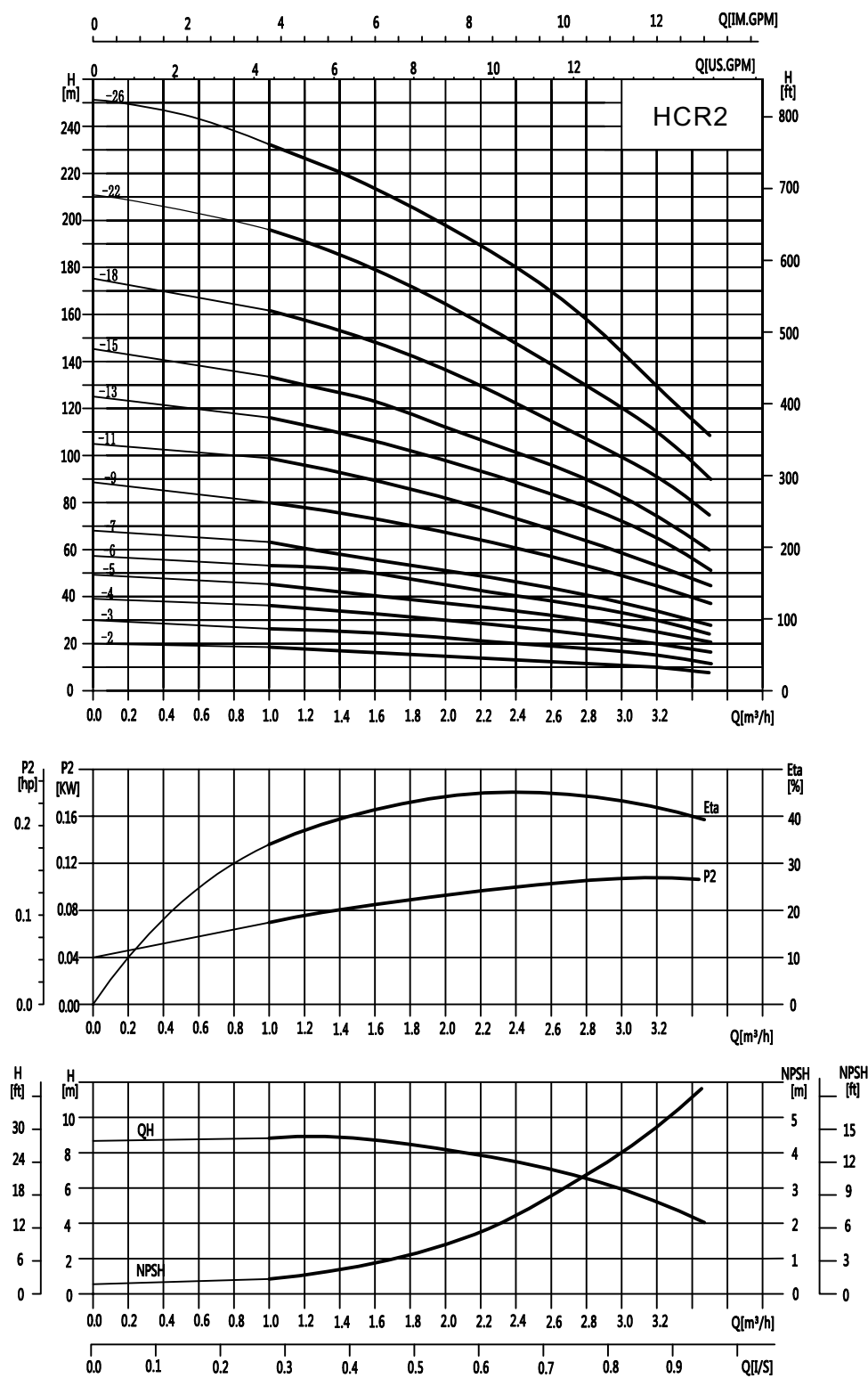
Model	Dimensions(mm)					Weight kg
	B1	B2	B1+B2	D1	D2	
HCR1-2	279	210	489	148	117	21
HCR1-3	297		507			21
HCR1-4	315		525			22
HCR1-5	333		543			22
HCR1-6	351		561			23
HCR1-7	369		579			23
HCR1-8	389		597			24
HCR1-9	405		615			24
HCR1-10	423		633			25
HCR1-11	441		651			25
HCR1-12	459	255	714	170	142	26
HCR1-13	477		732			26
HCR1-15	513		768			27
HCR1-17	549		804			28
HCR1-19	585		840			29
HCR1-21	621		876			30
HCR1-23	657		912			31
HCR1-25	703	290	993	190	155	40
HCR1-27	739		1029			41
HCR1-30	793		1083			42
HCR1-33	847		1137			44
HCR1-36	901		1191			45

The external dimensions of single-phase motors and explosion-proof motors have changed. Please consult with us about them

Technical data

(Performance curve)

2900rpm

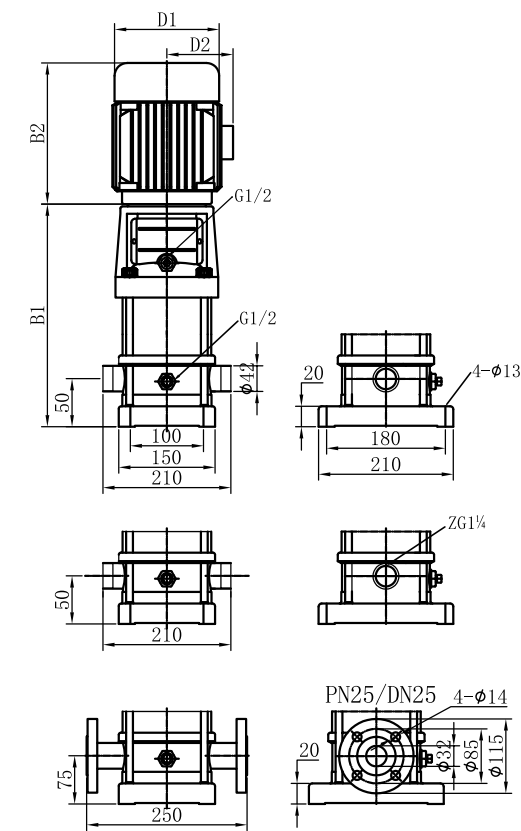


Technical data

(Performance table)

Model	Matching motor (KW)	Q (m³/h)	1	1.2	1.6	2.0	2.4	2.8	3.2	3.5
HCR2-2	0.37	H(m)	18	17	16	15	13	12	10	8
HCR2-3	0.37		27	26	24	22	20	18	15	12
HCR2-4	0.55		36	35	33	30	26	24	20	16
HCR2-5	0.55		45	43	40	37	33	30	24	20
HCR2-6	0.75		53	52	50	45	40	36	30	24
HCR2-7	0.75		63	61	57	52	47	41	35	28
HCR2-9	1.1		80	78	73	67	61	54	45	37
HCR2-11	1.1		98	95	89	82	73	64	54	44
HCR2-13	1.5		116	114	106	98	89	78	65	52
HCR2-15	1.5		134	130	123	112	100	90	73	60
HCR2-18	2.2		161	157	148	136	121	108	91	76
HCR2-22	2.2		197	192	180	165	148	130	110	90
HCR2-26	3.0		232	228	214	198	179	158	130	110

(Installation drawing)



(Dimensions and weight)

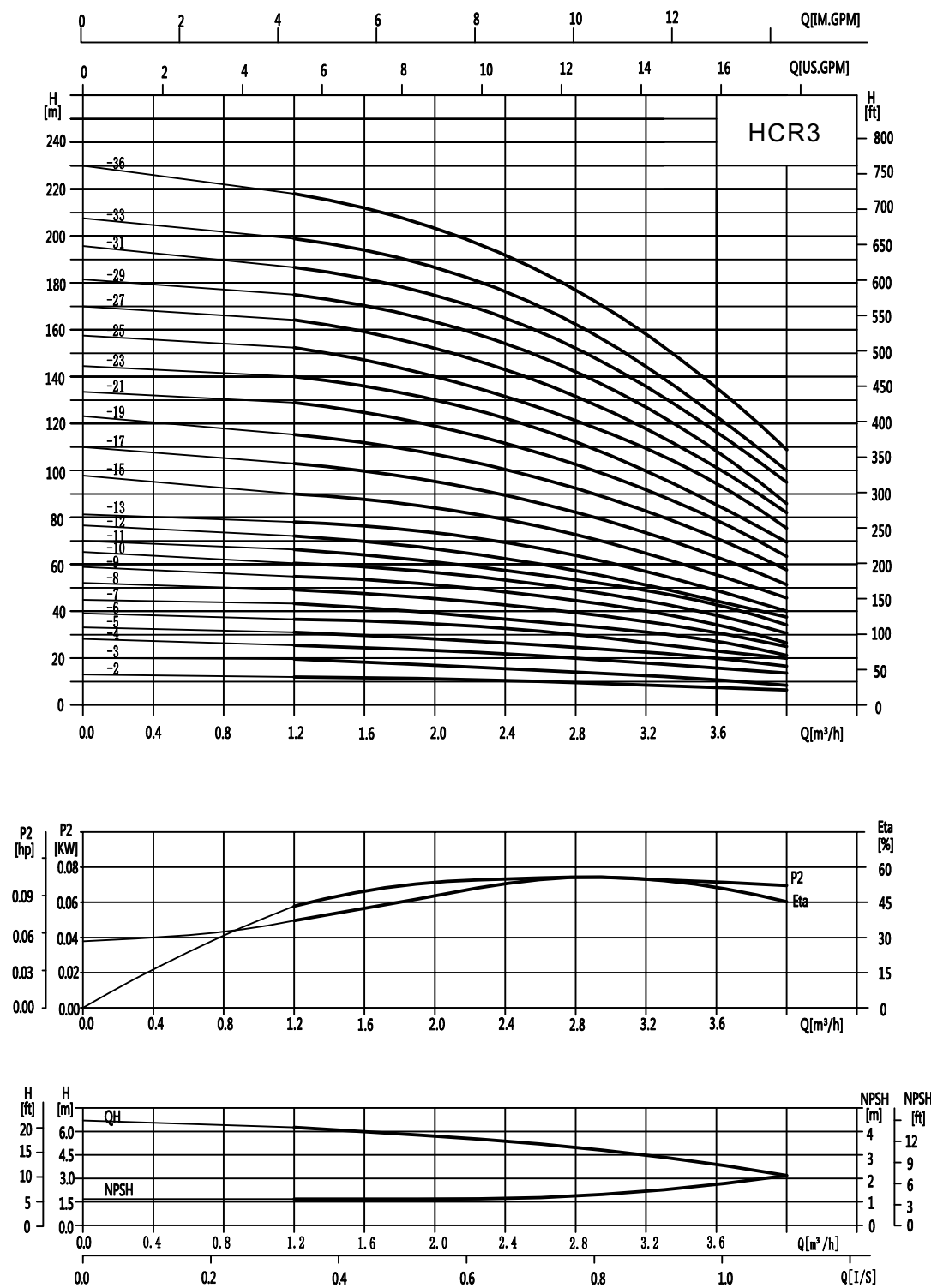
Model	Dimensions(mm)					Weight
	B1	B2	B1+B2	D1	D2	kg
HCR2-2	279	210	489	148	117	20
HCR2-3	297		507			21
HCR2-4	315		525			22
HCR2-5	333	255	543	170	142	23
HCR2-6	351		606			25
HCR2-7	369		624			26
HCR2-9	405		660			30
HCR2-11	441		696			31
HCR2-13	477	290	767	190	155	35
HCR2-15	513		803			36
HCR2-18	567		857			40
HCR2-22	639		929			45
HCR2-26	711	325	1036	197	165	50

The external dimensions of single-phase motors and explosion-proof motors have changed. Please consult with us about them

Technical data

(Performance curve)

2900rpm

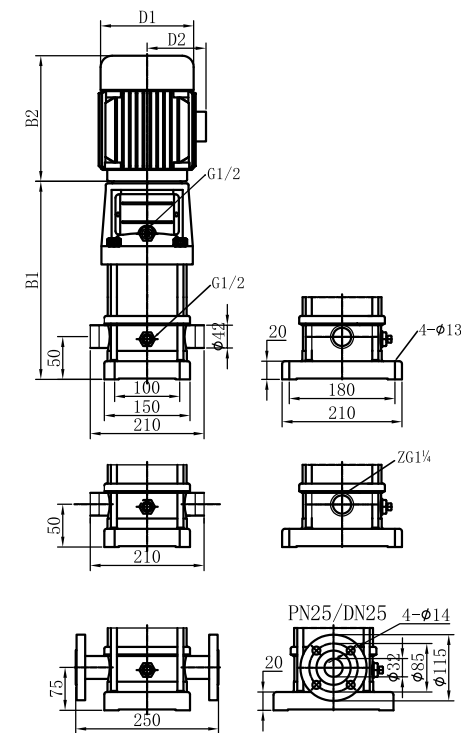


Technical data

(Performance table)

Model	Matching motor (KW)	Q (m³/h)	1.2	1.6	2	2.4	2.8	3	3.2	3.6	4.0
HCR3-2	0.37	H(m)	12.5	11.5	11	10.5	10	9	8	7	6
HCR3-3	0.37		19	18.5	17.5	16.5	15	14	13	11	9
HCR3-4	0.37		25	24	23	21.5	20	19	18	15	12
HCR3-5	0.37		31	30	29	27	25	23	22	19	16
HCR3-6	0.55		36	35	34	32	30	28	27	23	19
HCR3-7	0.55		43	41	39	37	34	32	31	27	22
HCR3-8	0.75		49	47	45	43	39	37	35	31	25
HCR3-9	0.75		55	53	51	48	45	42	40	35	28
HCR3-10	0.75		61	59	57	54	50	47	45	39	31
HCR3-11	1.1		67	64	61	58	54	51	49	42	34
HCR3-12	1.1		73	70	67	63	58	55	52	45	37
HCR3-13	1.1		78	76	73	69	64	60	57	49	40
HCR3-15	1.1		90	88	84	79	73	69	66	57	46
HCR3-17	1.5		103	100	96	90	83	79	75	64	52
HCR3-19	1.5		115	112	107	100	92	88	83	72	58
HCR3-21	2.2		128	124	119	112	102	98	91	79	64
HCR3-23	2.2		140	135	130	122	112	107	100	86	70
HCR3-25	2.2		151	147	141	131	122	116	109	94	76
HCR3-27	2.2		164	159	152	143	132	124	117	101	82
HCR3-29	2.2		175	170	163	153	142	133	126	109	88
HCR3-31	3.0		187	182	175	165	153	142	135	116	94
HCR3-33	3.0		199	194	187	176	163	151	145	125	100
HCR3-36	3.0		218	212	204	192	178	168	159	137	109

(Installation drawing)



(Dimensions and weight)

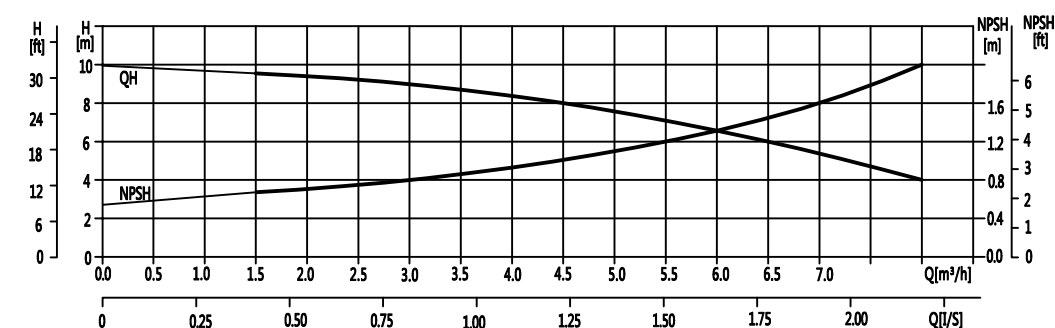
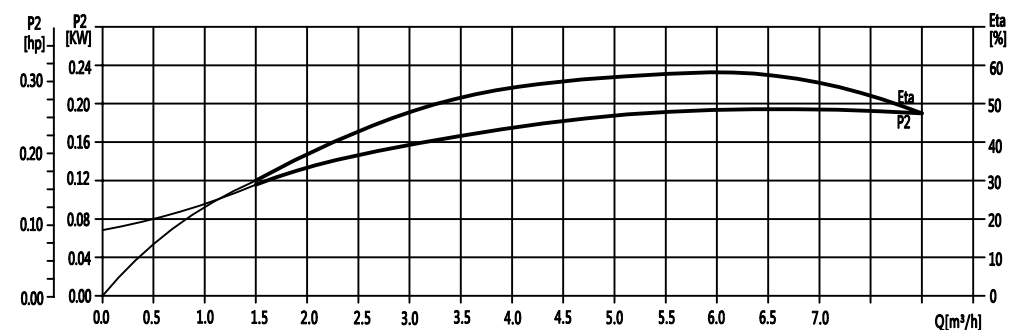
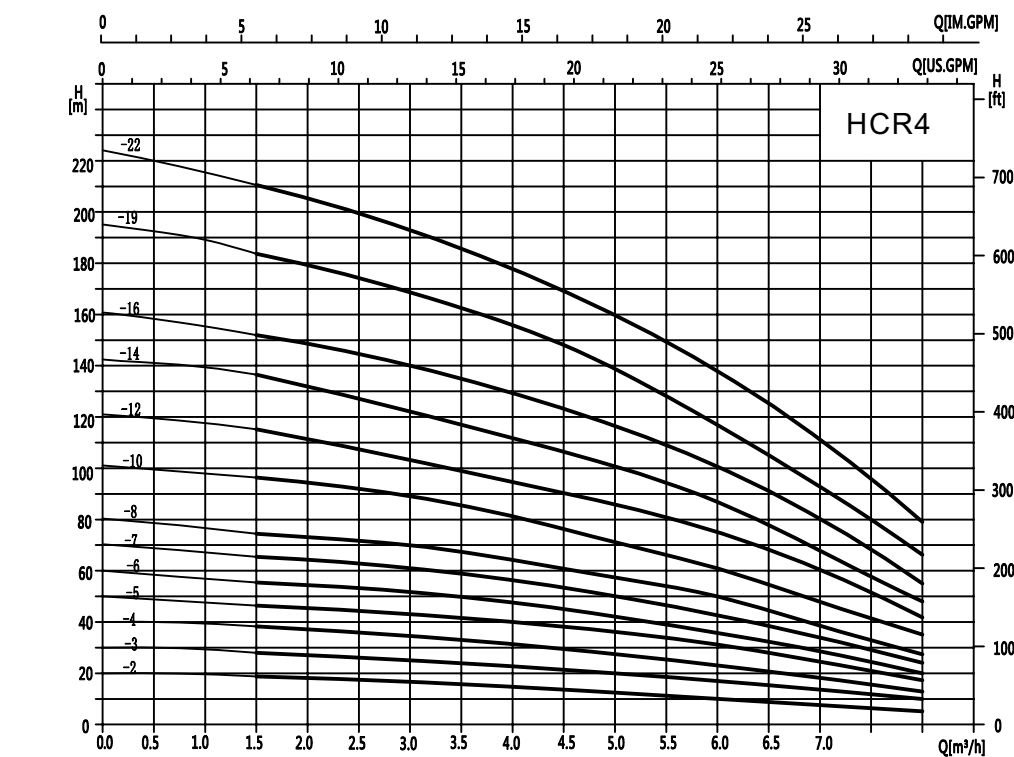
Model	Dimensions(mm)					Weight
	B1	B2	B1+B2	D1	D2	kg
HCR3-2	279	210	489	148	117	21
HCR3-3	297		507			21
HCR3-4	315		525			22
HCR3-5	333		543			22
HCR3-6	351		561			23
HCR3-7	369	255	579	170	142	23
HCR3-8	389		642			24
HCR3-9	405		660			24
HCR3-10	423		678			25
HCR3-11	441		696			25
HCR3-12	459	290	714	190	155	26
HCR3-13	477		732			26
HCR3-15	513		768			27
HCR3-17	559		849			28
HCR3-19	595		885			29
HCR3-21	631	325	921	197	165	30
HCR3-23	667		957			31
HCR3-25	713		1003			40
HCR3-27	749		1039			41
HCR3-29	785		1075			42
HCR3-31	833	325	1158	197	165	44
HCR3-33	869		1194			45
HCR3-36	923		1248			

The external dimensions of single-phase motors and explosion-proof motors have changed.Please consult with us about them

Technical data

(Performance curve)

2900rpm

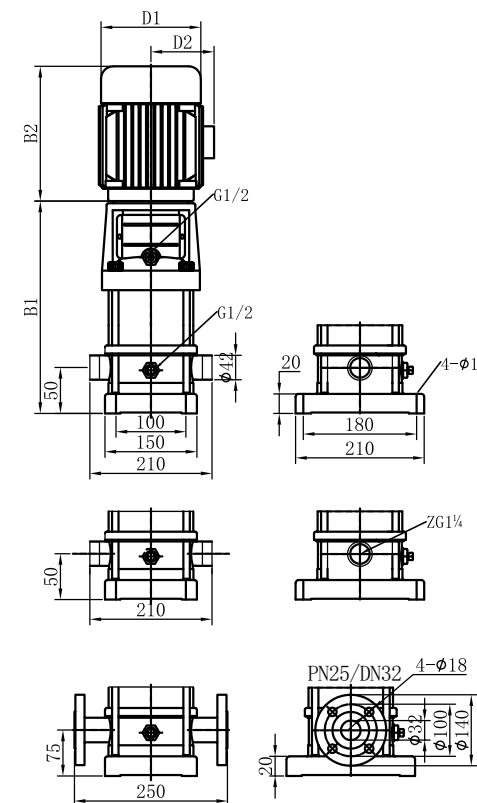


Technical data

(Performance table)

Model	Matching motor (KW)	Q (m³/h)	1.5	2	3	4	5	6	7	8
HCR4-2	0.37	H(m)	19	18	17	15	13	10	8	6
HCR4-3	0.55		28	27	26	24	20	18	13	10
HCR4-4	0.75		38	36	34	32	27	24	19	13
HCR4-5	1.1		47	45	43	40	34	31	23	17
HCR4-6	1.1		56	54	52	48	41	37	28	20
HCR4-7	1.5		66	63	61	56	48	43	33	24
HCR4-8	1.5		74	72	70	64	55	50	38	27
HCR4-10	2.2		96	90	87	81	71	62	48	34
HCR4-12	2.2		114	108	104	95	85	75	58	41
HCR4-14	3		136	126	122	112	101	89	68	48
HCR4-16	3		152	144	140	129	115	101	78	55
HCR4-19	4		183	171	168	153	137	122	93	67
HCR4-22	4		211	200	192	178	160	138	108	79

(Installation drawing)



(Dimensions and weight)

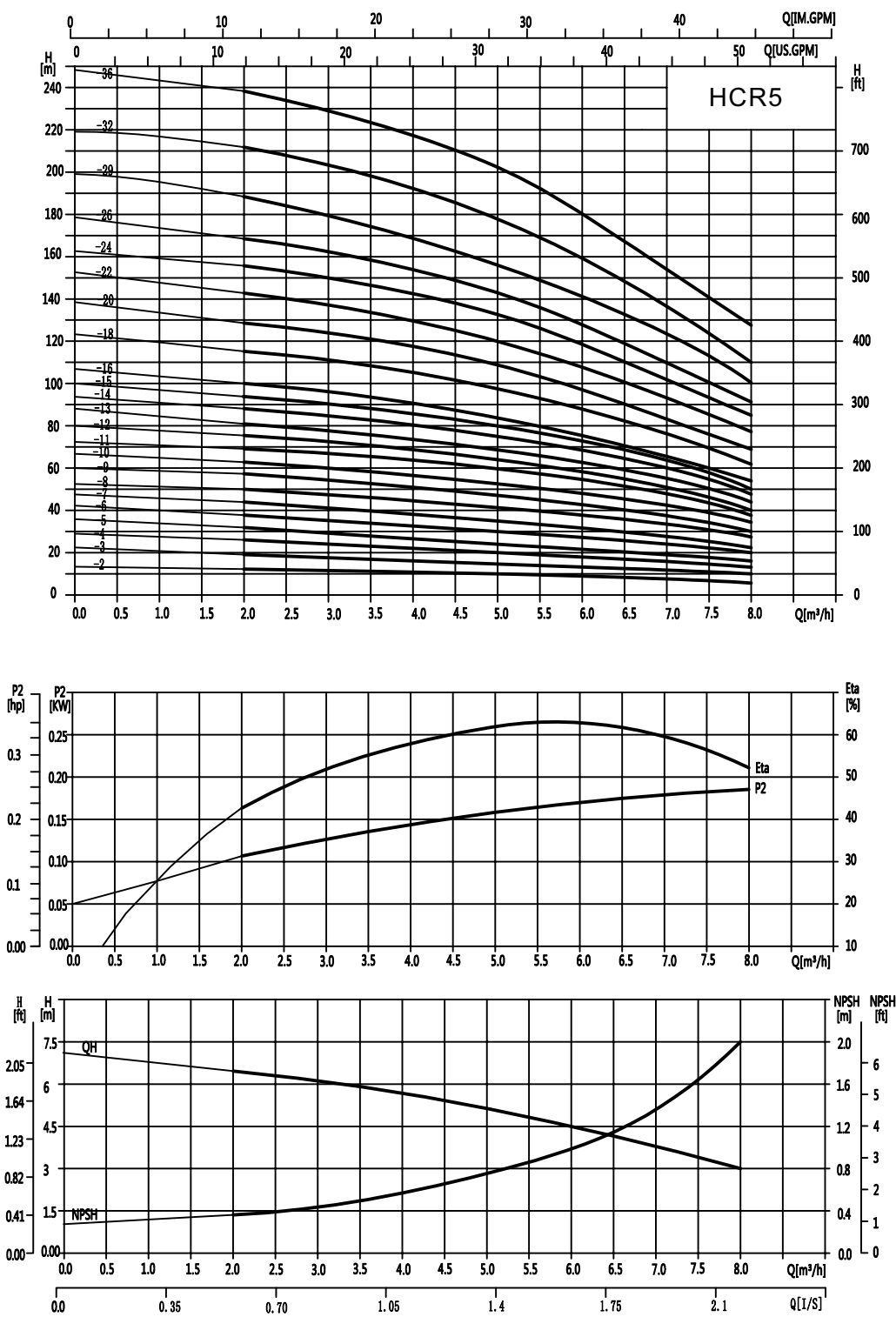
Model	Dimensions(mm)					Weight
	B1	B2	B1+B2	D1	D2	kg
HCR4-2	279	210	507	148	117	22
HCR4-3	324		534			23
HCR4-4	351	255	606	170	142	24
HCR4-5	378		633			26
HCR4-6	405		660			27
HCR4-7	442	290	732	190	155	31
HCR4-8	469		759			32
HCR4-10	523		813			33
HCR4-12	577		867			34
HCR4-14	643	325	968	197	165	36
HCR4-16	697		1022			41
HCR4-19	778	335	1113	230	188	46
HCR4-22	859		1194			51

The external dimensions of single-phase motors and explosion-proof motors have changed. Please consult with us about them

Technical data

(Performance curve)

2900rpm

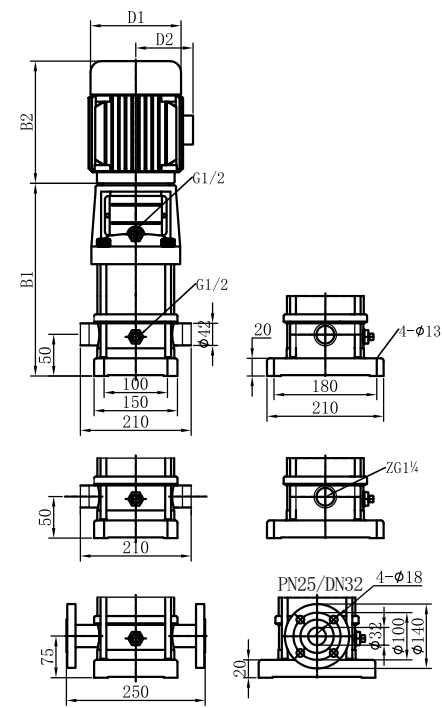


Technical data

(Performance table)

Model	Matching motor (KW)	Q (m³/h)	2	3	4	5	6	7	8
HCR5-2	0.37	H(m)	13	12	11	10	8	7	6
HCR5-3	0.55		19	18	17	15	13	12	10
HCR5-4	0.55		25	24	22	20	18	16	13
HCR5-5	0.75		31	30	28	25	23	20	16
HCR5-6	1.1		37	36	34	30	27	24	20
HCR5-7	1.1		43	41	39	36	33	29	23
HCR5-8	1.1		50	48	45	42	37	33	27
HCR5-9	1.5		56	54	51	48	43	37	30
HCR5-10	1.5		62	60	57	53	47	41	34
HCR5-11	2.2		69	66	62	59	52	45	37
HCR5-12	2.2		75	72	68	64	57	50	40
HCR5-13	2.2		81	78	74	69	61	54	44
HCR5-14	2.2		87	84	79	75	66	58	47
HCR5-15	2.2		93	90	85	80	71	62	50
HCR5-16	2.2		100	96	91	85	76	66	54
HCR5-18	3		115	111	105	99	88	76	62
HCR5-20	3		128	123	117	110	97	85	69
HCR5-22	4		142	136	129	122	108	94	77
HCR5-24	4		155	149	141	133	118	103	84
HCR5-26	4		168	161	153	144	127	111	91
HCR5-29	4		187	180	170	160	142	124	101
HCR5-32	5.5		211	203	192	180	160	140	113
HCR5-36	5.5		237	228	216	203	180	157	128

(Installation drawing)



(Dimensions and weight)

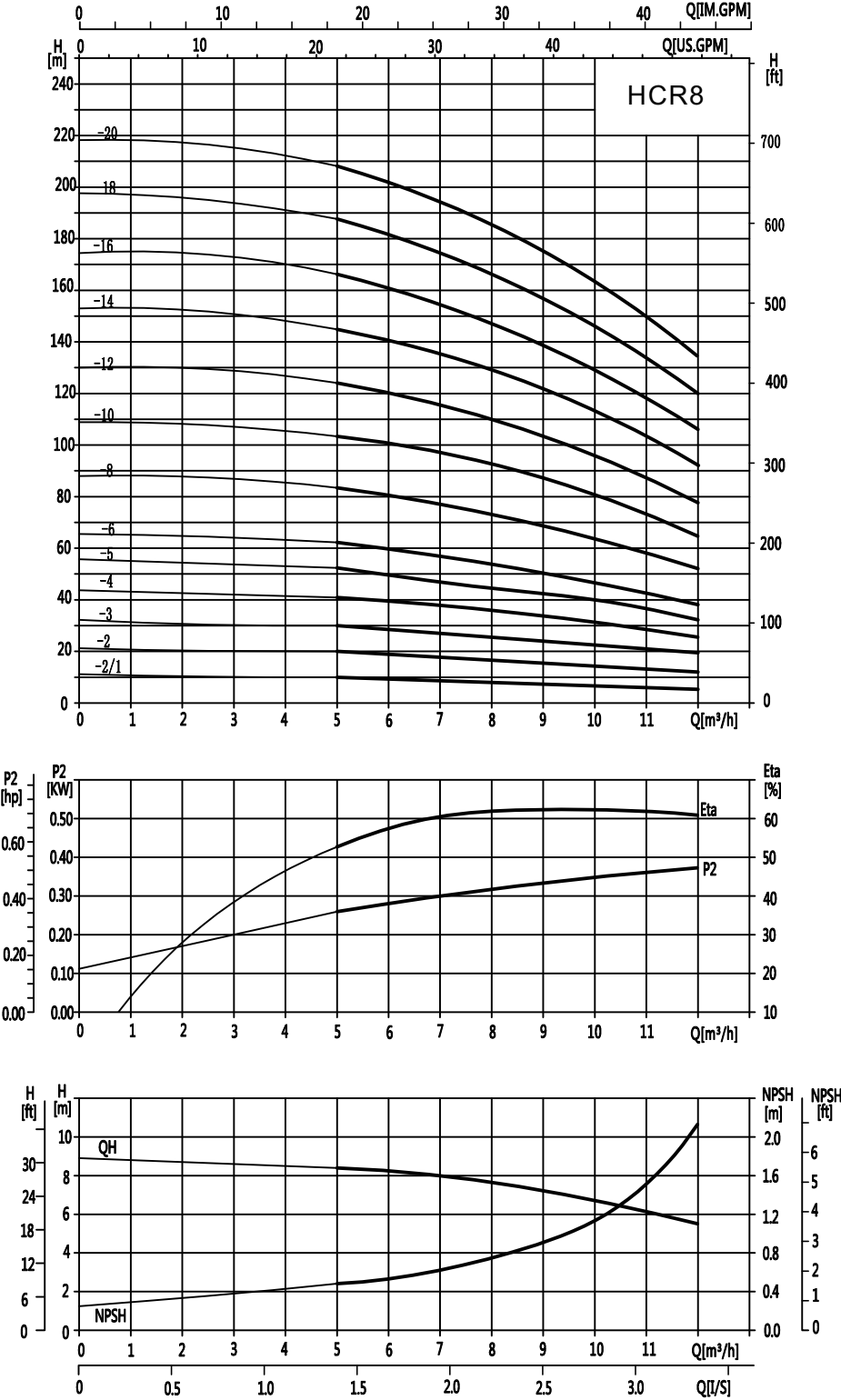
Model	Dimensions(mm)					Weight
	B1	B2	B1+B2	D1	D2	kg
HCR5-2	266	210	476	132	84	22
HCR5-3	293	210	503			23
HCR5-4	330	255	585			23
HCR5-5	357		612	150	95	26
HCR5-6	384		639			28
HCR5-7	411	290	666			29
HCR5-8	448		738	168	112	30
HCR5-9	475		765			36
HCR5-10	502	325	792			37
HCR5-11	529		819	194	124	38
HCR5-12	556		846			39
HCR5-13	583	335	873			40
HCR5-14	610		900	212	142	41
HCR5-15	637		927			42
HCR5-16	664	430	954			43
HCR5-18	728		1053	259	164	46
HCR5-20	782		1107			47
HCR5-22	836	335	1171			59
HCR5-24	890		1225	212	142	61
HCR5-26	944		1279			62
HCR5-29	1025	430	1360			64
HCR5-32	1126		1556	259	164	79
HCR5-36	1234		1664			81

The external dimensions of single-phase motors and explosion-proof motors have changed. Please consult with us about them

Technical data

(Performance curve)

2900rpm

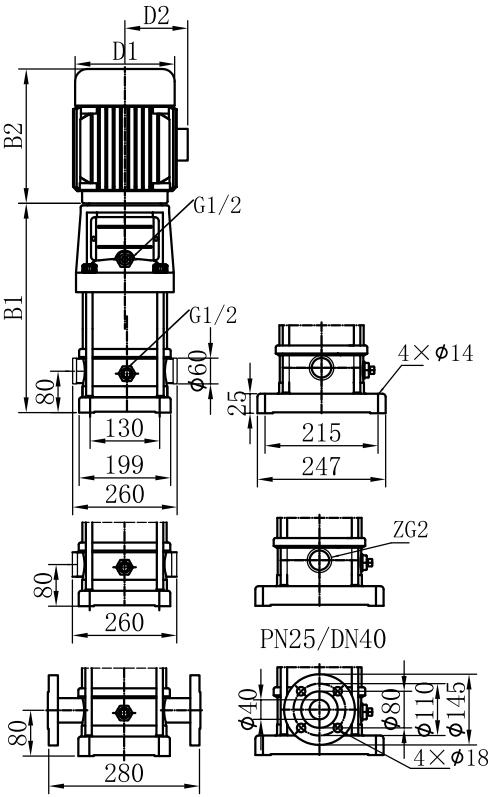


Technical data

(Performance table)

Model	Matching motor (KW)	Q (m³/h)	5	6	7	8	9	10	11	12
HCR8-2/1	0.75	H(m)	10	9.5	9.3	9	8.5	8	7	6
HCR8-2	0.75		20	19.5	19	18	17	16	14	13
HCR8-3	1.1		30	29.5	28.5	27	25	24	21	19
HCR8-4	1.5		41	39.5	38	36	34	32	28	26
HCR8-5	2.2		52	50	48	45	42	40	36	32
HCR8-6	2.2		62	60	57	54	51	48	43	39
HCR8-8	3		83	80	77	73	69	65	58	52
HCR8-10	4		104	100	97	92	87	81	73	65
HCR8-12	4		124	120	116	111	104	92	87	78
HCR8-14	5.5		145	141	136	130	122	113	102	92
HCR8-16	5.5		166	161	156	148	139	130	118	106
HCR8-18	7.5		187	182	175	167	157	146	134	120
HCR8-20	7.5		208	202	195	186	175	163	150	135

(Installation drawing)



(Dimensions and weight)

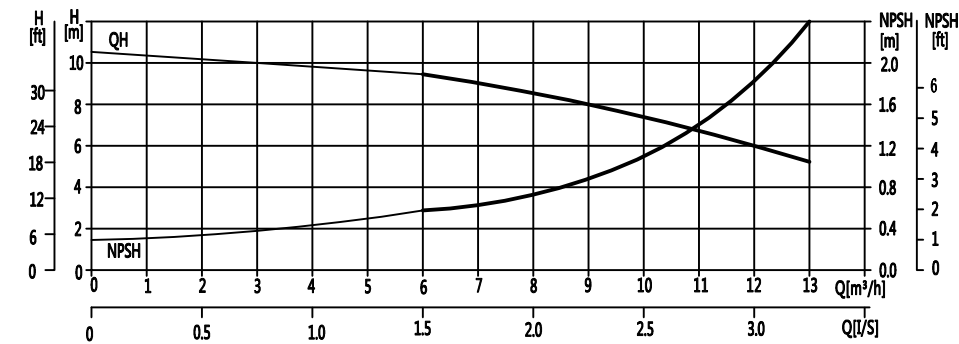
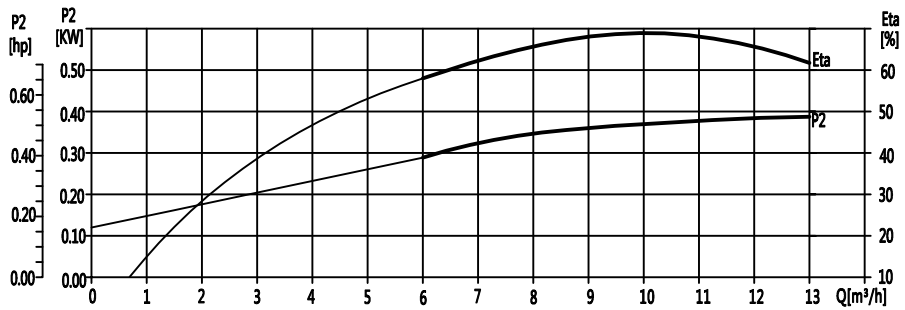
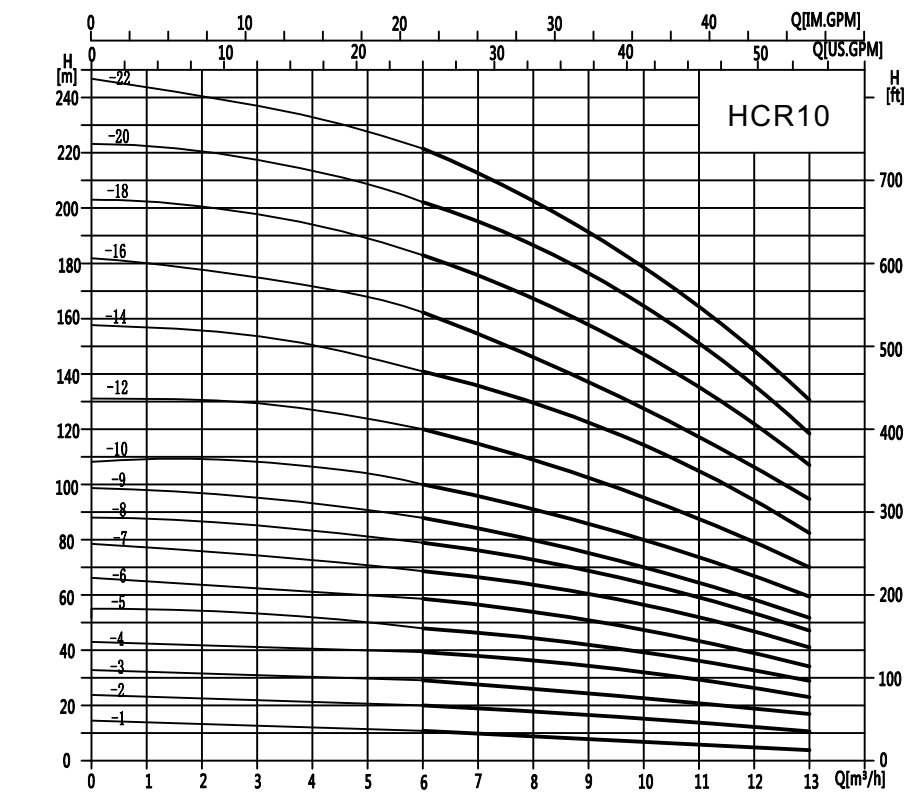
Model	Dimensions(mm)					Weight
	B1	B2	B1+B2	D1	D2	kg
HCR8-2/1	379	255	634	170	142	24
HCR8-2	379					24
HCR8-3	409		664			34
HCR8-4	439	290	729	190	155	34
HCR8-5	469		759			44
HCR8-6	499		789			44
HCR8-8	569	325	894	197	165	49
HCR8-10	629	335	964	230	188	59
HCR8-12	689		1024			59
HCR8-14	769	430	1199	260	208	84
HCR8-16	829		1259			94
HCR8-18	889		1319			94
HCR8-20	949		1379			94

The external dimensions of single-phase motors and explosion-proof motors have changed.Please consult with us about them

Technical data

(Performance curve)

2900rpm

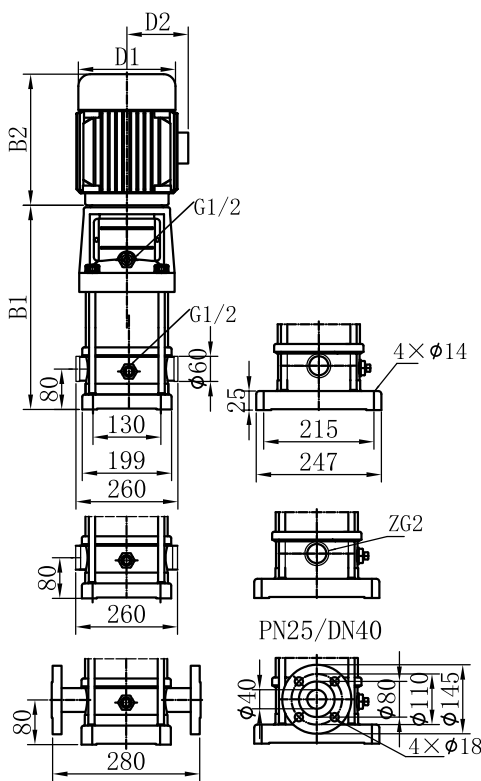


Technical data

(Performance table)

Model	Matching motor (KW)	Q (m³/h)	6	7	8	9	10	11	12	13
HCR10-1	0.37	H(m)	11	10	9	8	7	6	5	4
HCR10-2	0.75		20	19	18	17	16	14	13	11
HCR10-3	1.1		29	28	27	25	23	21	19	17
HCR10-4	1.5		39	37	36	34	32	29	26	23
HCR10-5	2.2		48	47	45	42	39	36	32	29
HCR10-6	2.2		58	56	54	51	47	43	39	34
HCR10-7	3		69	66	63	60	56	51	46	41
HCR10-8	3		79	76	73	69	64	58	52	46
HCR10-9	3		88	85	82	77	70	66	59	52
HCR10-10	4		100	96	92	87	80	74	66	59
HCR10-12	4		120	115	110	104	95	89	80	70
HCR10-14	5.5		141	136	130	123	113	105	94	83
HCR10-16	5.5		162	159	149	141	128	120	108	95
HCR10-18	7.5		182	175	168	159	147	135	121	107
HCR10-20	7.5		202	195	186	176	164	150	135	119
HCR10-22	7.5		222	214	205	194	178	165	148	131

(Installation drawing)



(Dimensions and weight)

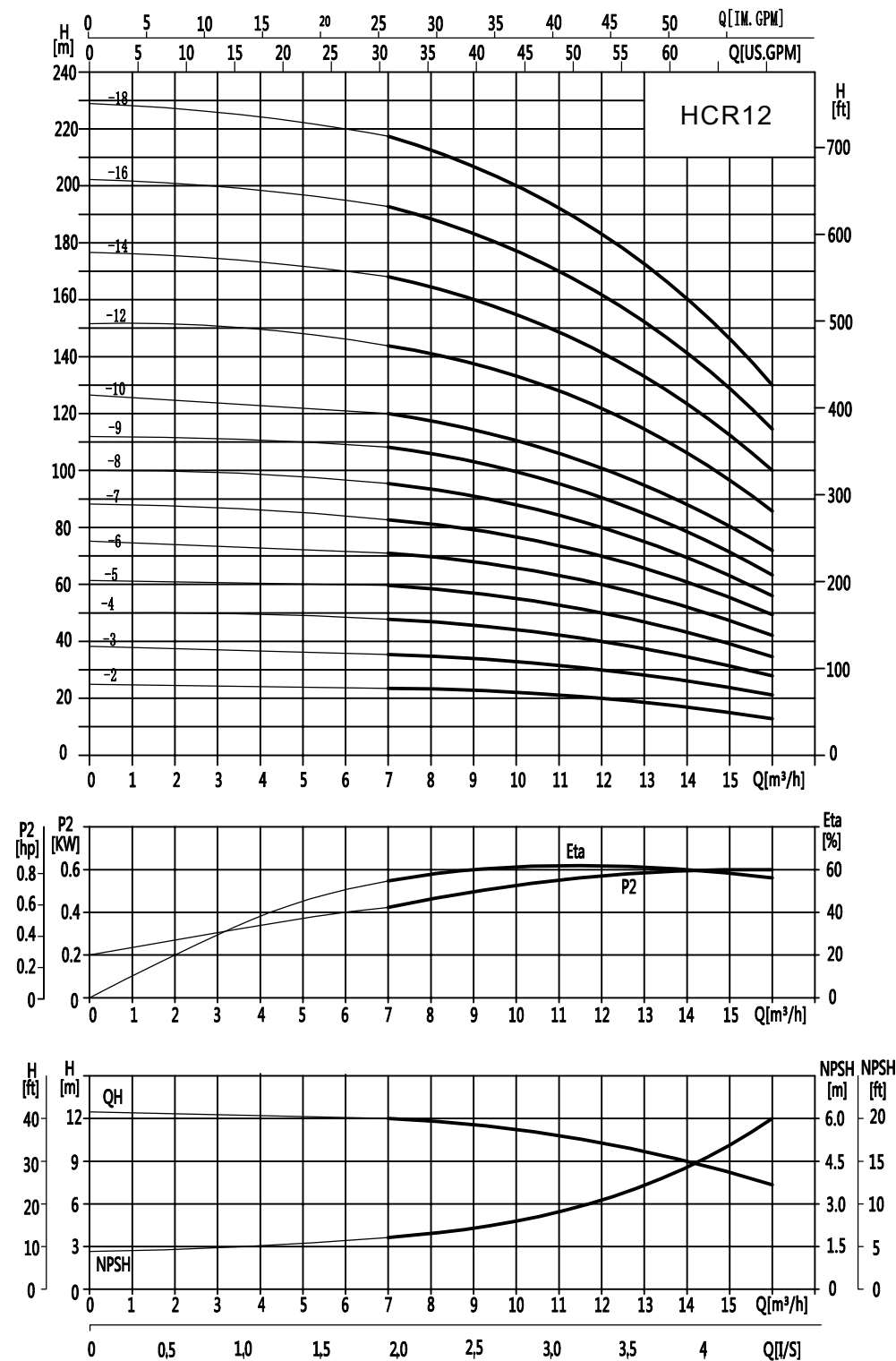
Model	Dimensions(mm)					Weight kg
	B1	B2	B1+B2	D1	D2	
HCR10-1	379	210	589	148	117	32
HCR10-2	379	255	634	170	142	34
HCR10-3	409		664			38
HCR10-4	439	290	729	190	155	46
HCR10-5	469		759			47
HCR10-6	499		789			48
HCR10-7	539	325	864	197	165	54
HCR10-8	569		894			55
HCR10-9	599		924			56
HCR10-10	629	335	964	230	188	68
HCR10-12	689		1024			70
HCR10-14	769		1199	260	208	92
HCR10-16	829	420	1259			94
HCR10-18	889		1319			99
HCR10-20	949		1379			101
HCR10-22	1009		1439			104

The external dimensions of single-phase motors and explosion-proof motors have changed.Please consult with us about them

Technical data

(Performance curve)

2900rpm

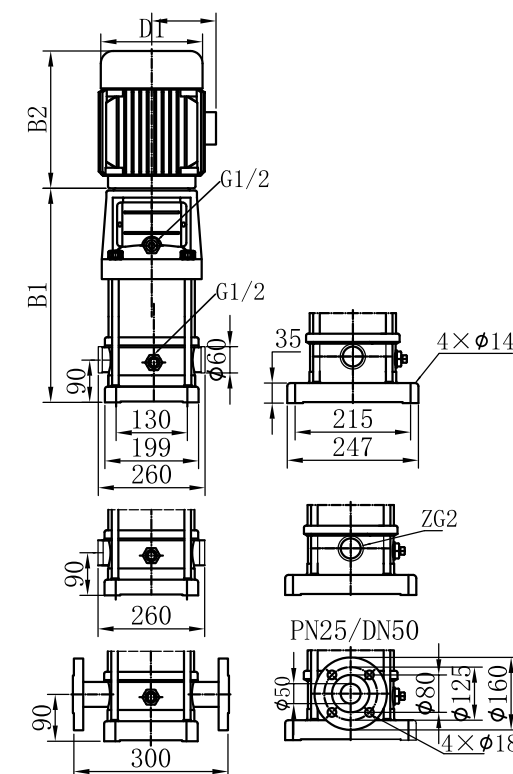


Technical data

(Performance table)

Model	Matching motor (KW)	Q (m³/h)	7	8	9	10	11	12	13	14	15	16
HCR12-2	1.5	H(m)	23.5	23	22.5	22	21	20	18.5	17	15.5	14
HCR12-3	2.2		35.5	35	34	33	31.5	30	28	26	23.5	21
HCR12-4	3		47	46	45	44	42	40	37	34	31	28
HCR12-5	3		59.5	58	56.5	55	52.5	50	46.5	43	39	35
HCR12-6	4		71.5	70	68	66	63	60	56	52	47	42
HCR12-7	5.5		83.5	82	79.5	77	73.5	70	65.5	61	55	49
HCR12-8	5.5		95.5	94	91	88	84	80	75	70	63	56
HCR12-9	5.5		108	106	103	100	95.5	91	85	79	71.5	64
HCR12-10	7.5		120	118	114.5	111	106	101	94.5	88	80	72
HCR12-12	7.5		143.5	141	137	133	127	121	113.5	106	96	86
HCR12-14	11		168	165	160	155	148	141	132.5	124	112	100
HCR12-16	11		192.5	189	183.5	178	170	162	152	142	128.5	115
HCR12-18	11		217	213	207.5	202	192.5	183	171.5	160	145	130

(Installation drawing)



The external dimensions of single-phase motors and explosion-proof motors have changed. Please consult with us about them

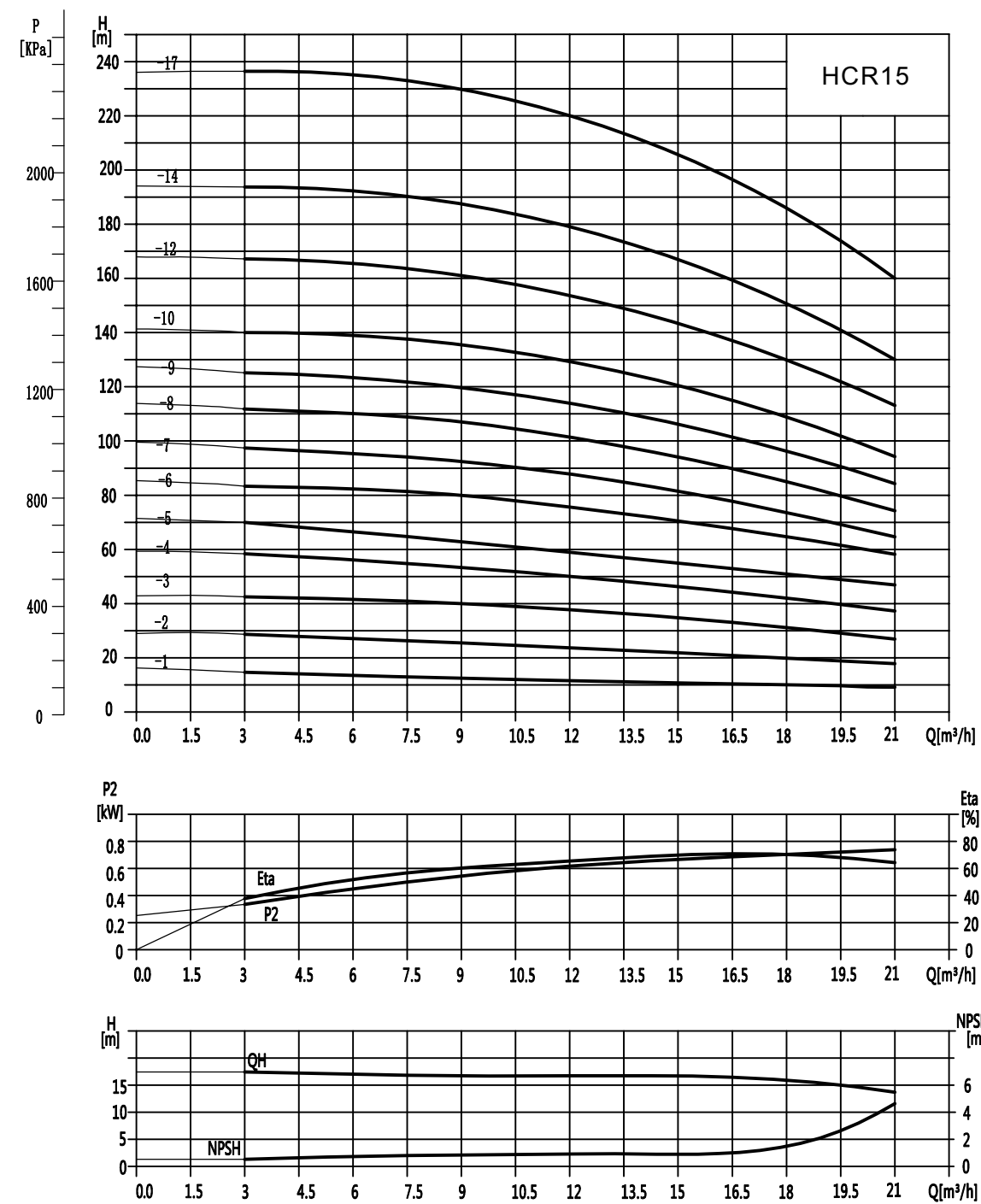
(Dimensions and weight)

Model	Dimensions(mm)					Weight
	B1	B2	B1+B2	D1	D2	kg
HCR12-2	379	290	669	190	155	37
HCR12-3	409		669			40
HCR12-4	449	325	774	197	165	47
HCR12-5	479		804			48
HCR12-6	509	335	844	230	188	58
HCR12-7	559	430	989	260	208	76
HCR12-8	589		1019			76
HCR12-9	619		1049			78
HCR12-10	649		1079			78
HCR12-12	709		1139			80
HCR12-14	859	505	1364	330	255	151
HCR12-16	919		1424			151
HCR12-18	979		1484			153

Technical data

(Performance curve)

2900rpm

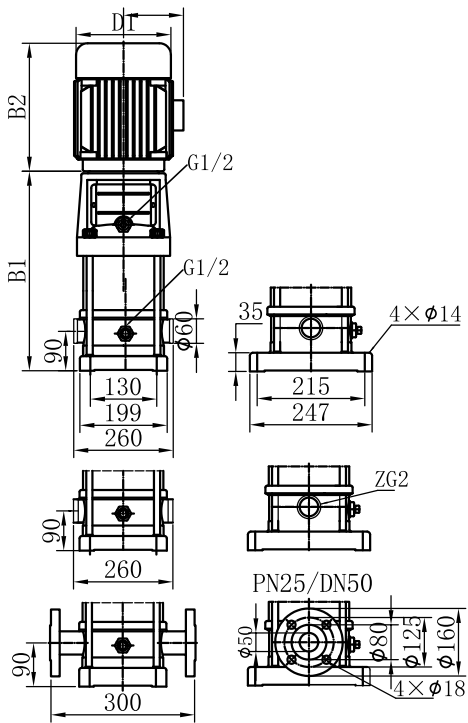


Technical data

(Performance table)

Model	Matching motor (KW)	Q (m³/h)	3	6	9	12	15	18	21
HCR15-1	1.1	H(m)	15	13	13	12	11	10	9
HCR15-2	2.2		28	27	26	25	23	21	18
HCR15-3	3		42	41	40	38	35	32	28
HCR15-4	4		58	55	55	51	47	43	38
HCR15-5	4		70	68	66	64	58	53	48
HCR15-6	5.5		83	82	80	77	71	64	58
HCR15-7	5.5		98	96	94	89	83	75	65
HCR15-8	7.5		112	110	108	103	96	86	75
HCR15-9	7.5		125	123	120	115	108	97	84
HCR15-10	11		140	138	136	129	120	109	95
HCR15-12	11		168	165	162	155	142	130	114
HCR15-14	11		194	192	188	180	166	151	130
HCR15-17	15		237	234	230	219	205	185	160

(Installation drawing)



(Dimensions and weight)

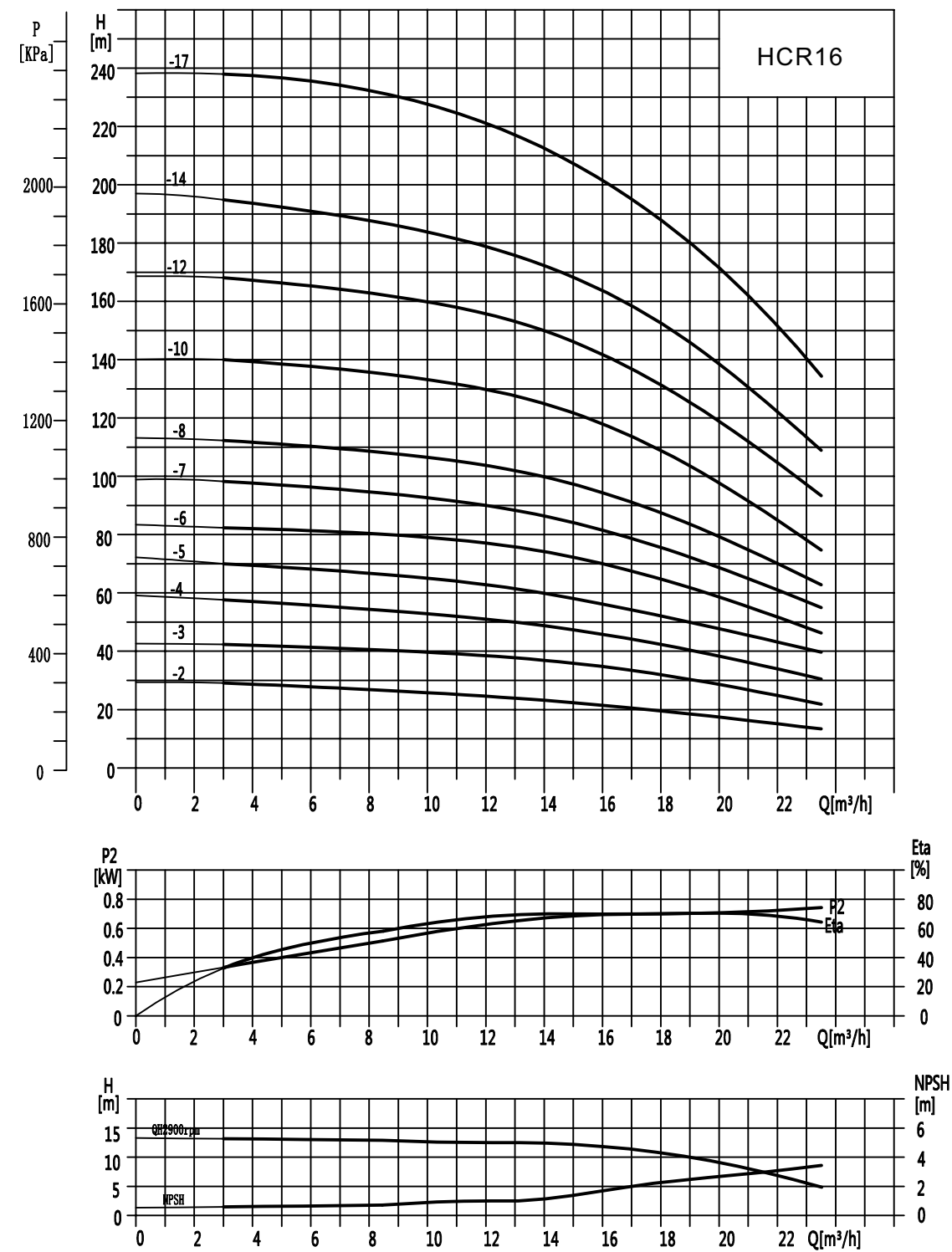
Model	Dimensions(mm)					Weight kg
	B1	B2	B1+B2	D1	D2	
HCR15-1	352	250	602	150	95	42
HCR15-2	413	310	723	168	112	50
HCR15-3	463	330	793	194	124	55
HCR15-4	508	357	865	212	142	68
HCR15-5	553	357	910	212	142	69
HCR15-6	630	398	1028	259	164	91
HCR15-7	675	398	1073	259	164	93
HCR15-8	720	398	1118	259	164	97
HCR15-9	765	398	1163	259	164	98
HCR15-10	887	505	1392	330	255	141
HCR15-12	977	505	1482	330	255	145
HCR15-14	1067	505	1572	330	255	148
HCR15-17	1202	505	1707	330	255	158

The external dimensions of single-phase motors and explosion-proof motors have changed. Please consult with us about them

Technical data

(Performance curve)

2900rpm

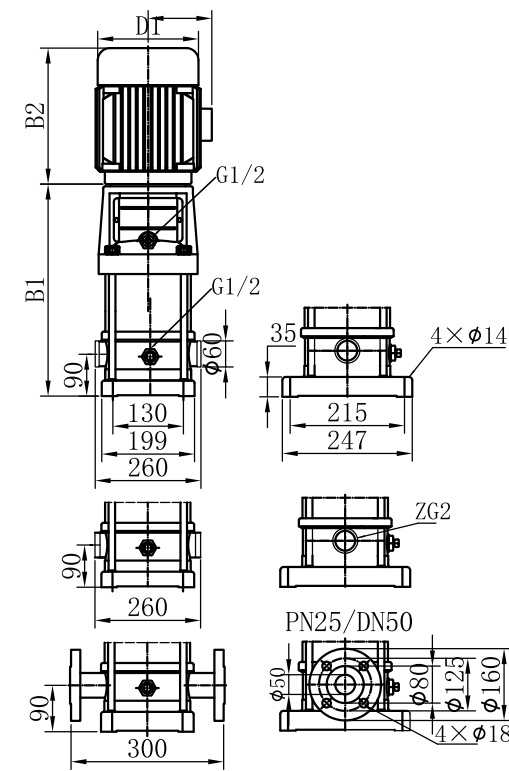


Technical data

(Performance table)

Model	Matching motor (KW)	Q (m³/h)	8	10	12	14	16	18	20	22
HCR16-2	2.2	H(m)	27	26	25	24	22	21	19	16
HCR16-3	3		41	40	38	37	34	32	29	25
HCR16-4	4		54	53	52	49	46	43	38	34
HCR16-5	5.5		68	67	65	62	58	54	48	43
HCR16-6	5.5		82	80	78	74	70	64	58	52
HCR16-7	7.5		96	95	91	87	82	76	68	61
HCR16-8	7.5		110	108	104	99	94	86	77	70
HCR16-10	11		138	136	131	125	118	109	97	87
HCR16-12	11		166	162	157	150	141	130	116	105
HCR16-14	15		194	190	184	175	166	152	136	122
HCR16-16	15		222	217	210	200	189	174	156	140

(Installation drawing)



(Dimensions and weight)

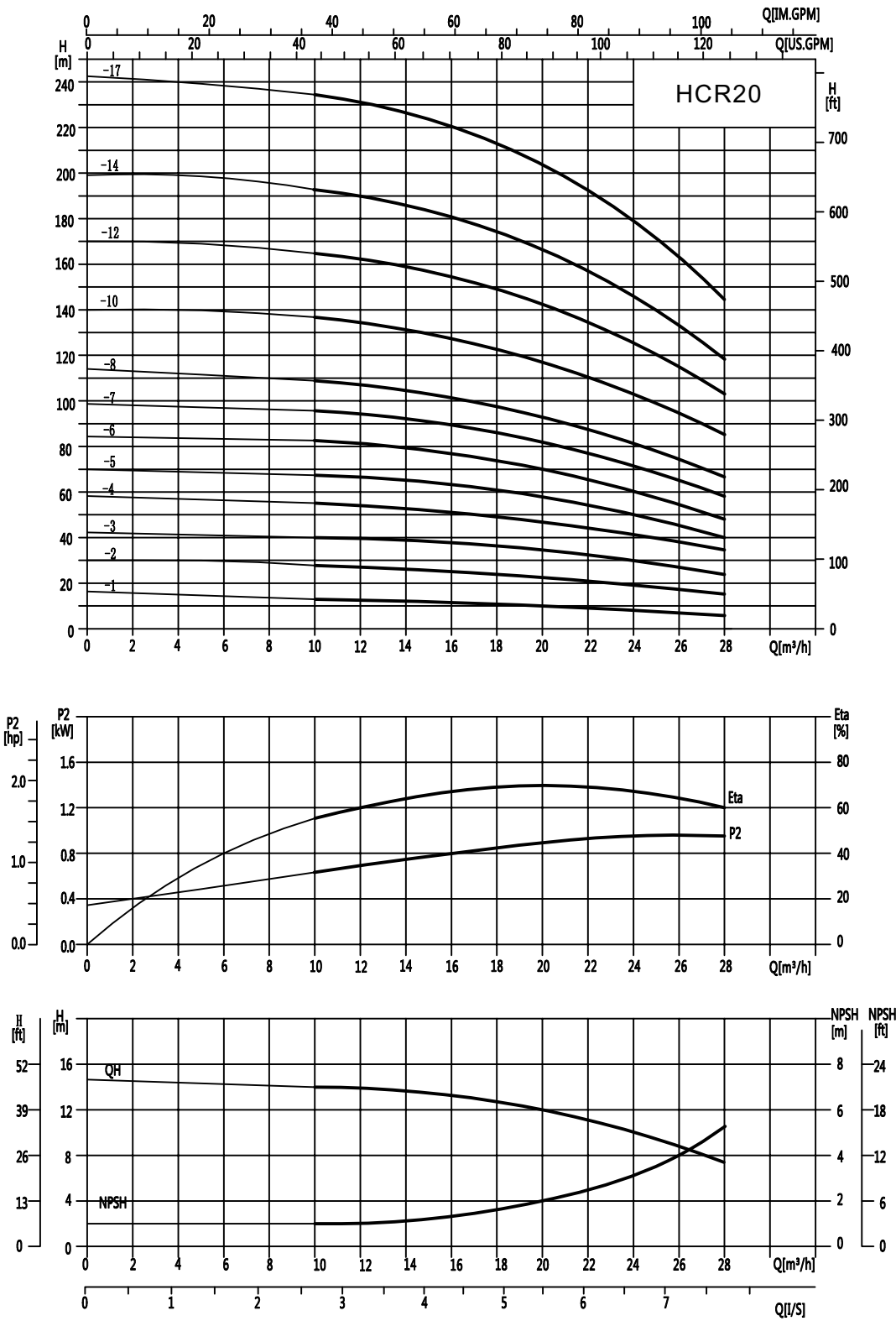
Model	Dimensions(mm)					Weight kg
	B1	B2	B1+B2	D1	D2	
HCR16-2	397	290	687	190	155	42
HCR16-3	452	345	797	197	165	50
HCR16-4	497	355	852	230	188	59
HCR16-5	562	390	952	260	208	76
HCR16-6	607	390	997	260	208	77
HCR16-7	652	390	1042	260	208	84
HCR16-8	697	390	1087	260	208	86
HCR16-10	875	500	1375	330	255	158
HCR16-12	965	500	1465	330	255	161
HCR16-14	1055	500	1555	330	255	174
HCR16-16	1145	500	1645	330	255	178

The external dimensions of single-phase motors and explosion-proof motors have changed. Please consult with us about them

Technical data

(Performance curve)

2900rpm

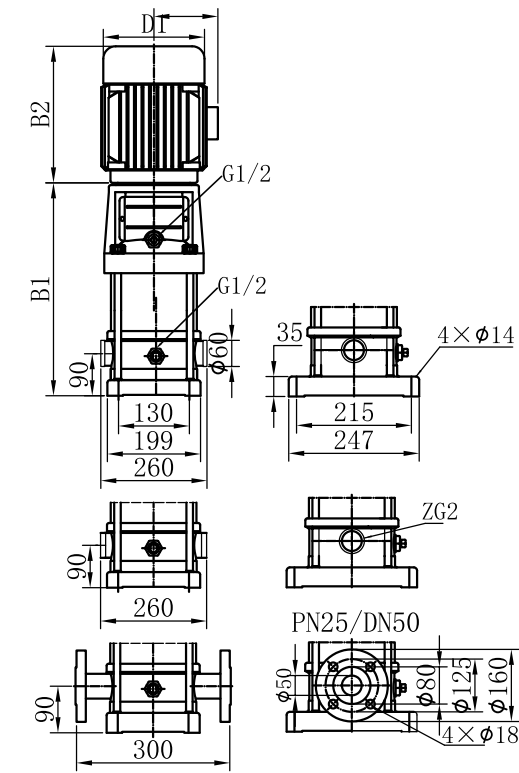


Technical data

(Performance table)

Model	Matching motor (KW)	Q (m³/h)	10	12	14	16	18	20	22	24	26	28
HCR20-1	1.1	H(m)	13.5	13	12.5	12	11	10	9	8	7	6
HCR20-2	2.2		27	26.5	26	25	24	23	22	20	18	15
HCR20-3	4		40	39.5	39	38	37	35	33	30	27	24
HCR20-4	5.5		54	53	52	51	49	47	44	41	37	33
HCR20-5	5.5		67	66	64	62	60	58	55	50	45	40
HCR20-6	7.5		81	79	77	75	73	70	66	61	55	49
HCR20-7	7.5		95	93	91	89	86	82	77	71	65	58
HCR20-8	11		109	107	105	102	99	94	89	82	75	67
HCR20-10	11		136	134	131	128	124	118	111	103	95	85
HCR20-12	15		164	162	158	154	149	142	133	124	114	102
HCR20-14	15		192	189	185	180	174	166	156	145	133	119
HCR20-17	18.5		234	230	225	219	212	202	190	177	162	145

(Installation drawing)



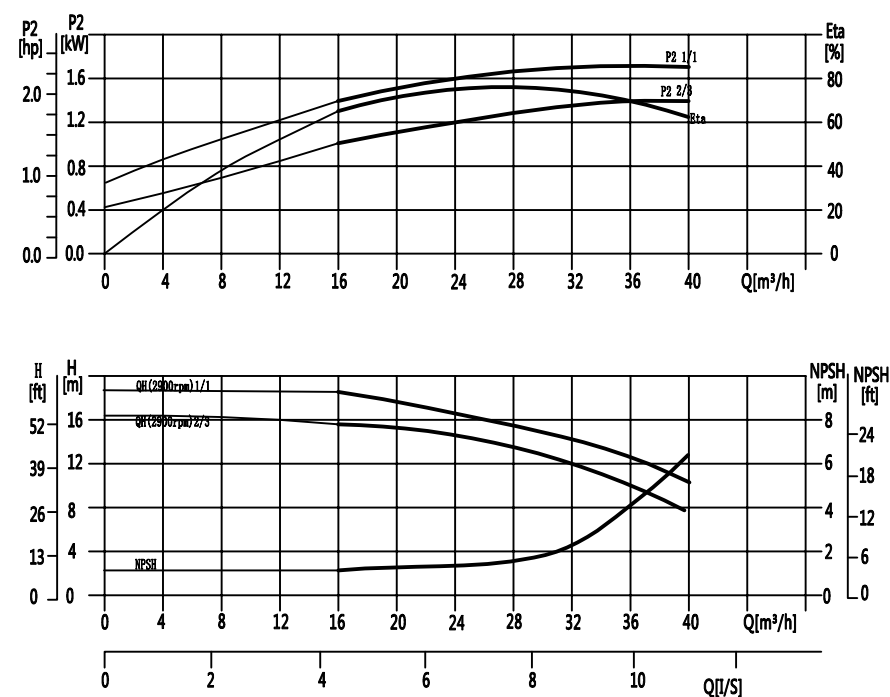
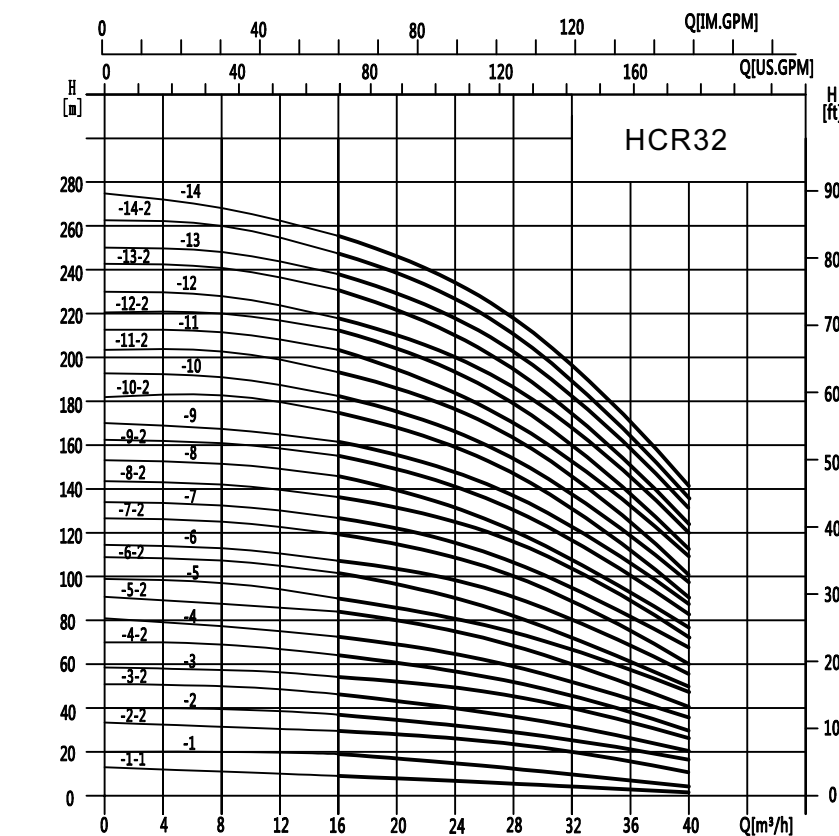
(Dimensions and weight)

Model	Dimensions(mm)					Weight
	B1	B2	B1+B2	D1	D2	kg
HCR20-1	372	245	617	170	140	33
HCR20-2	372	290	662	190	155	44
HCR20-3	427	335	762	230	188	58
HCR20-4	517	430	947	260	208	73
HCR20-5	562		897			75
HCR20-6	627		1057			83
HCR20-7	672		1102			85
HCR20-8	717	505	1222	330	255	141
HCR20-10	897		1402			146
HCR20-12	987		1492			161
HCR20-14	1077		1582			166
HCR20-17	1212		1772			191

The external dimensions of single-phase motors and explosion-proof motors have changed. Please consult with us about them

Technical data

(Performance curve)



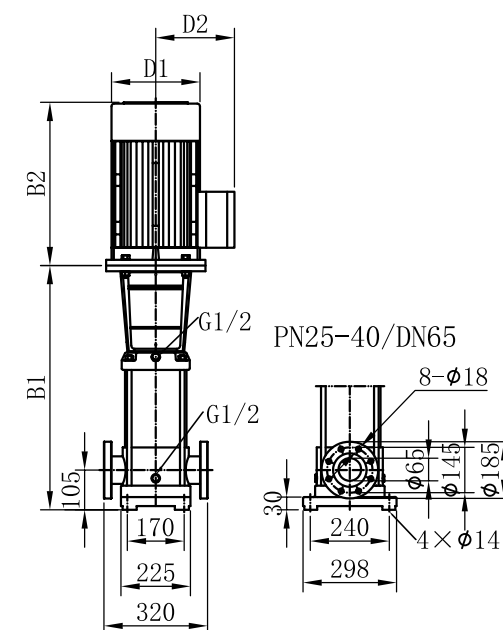
2900rpm

Technical data

(Performance table)

Model	Matching motor (KW)	Q (m³/h)	16	20	24	28	32	36	40
HCR32-1-1	1.5	H(m)	14	13	12	11	9	7	4
HCR32-1	2.2		18	17	15	14	13	11	8
HCR32-2-2	3		29	28	26	23	20	16	11
HCR32-2	4		36	34	32	29	27	23	18
HCR32-3-2	5.5		47	44	41	38	33	28	21
HCR32-3	5.5		54	51	48	44	40	35	27
HCR32-4-2	7.5		65	62	58	53	46	40	30
HCR32-4	7.5		72	69	65	59	53	47	37
HCR32-5-2	11		83	79	74	68	60	52	41
HCR32-5	11		90	86	81	74	67	59	47
HCR32-6-2	11		101	97	90	83	74	65	51
HCR32-6	11		108	104	97	90	81	72	57
HCR32-7-2	15		119	114	107	98	88	78	60
HCR32-7	15		126	121	113	105	95	85	67
HCR32-8-2	15		136	131	123	114	102	90	71
HCR32-8	15		144	138	130	120	109	97	77
HCR32-9-2	18.5		154	148	140	129	117	102	82
HCR32-9	18.5		162	156	147	136	124	109	88
HCR32-10-2	18.5		175	166	157	146	131	115	91
HCR32-10	18.5		182	173	164	152	138	122	98
HCR32-11-2	22		193	184	173	164	146	128	102
HCR32-11	22		200	191	180	168	153	135	109
HCR32-12-2	22		211	201	189	178	160	140	113
HCR32-12	22		218	208	196	184	167	147	120
HCR32-13-2	30		230	218	206	193	174	153	124
HCR32-13	30		237	225	213	200	181	160	131
HCR32-14-2	30		247	235	222	210	189	165	135
HCR32-14	30		255	242	229	216	196	172	142

(Installation drawing)



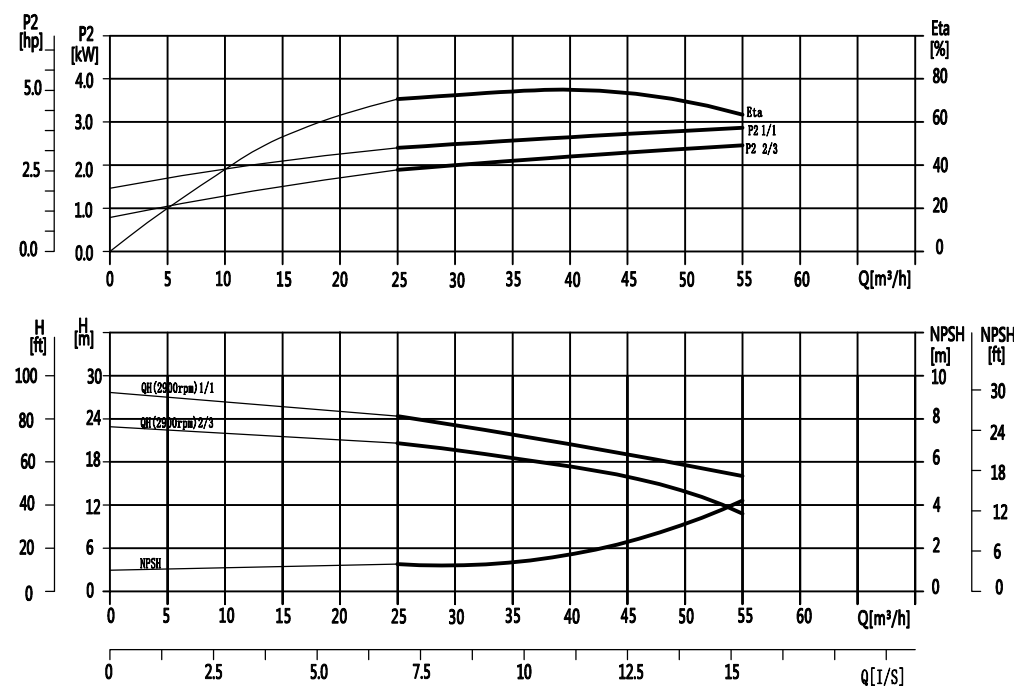
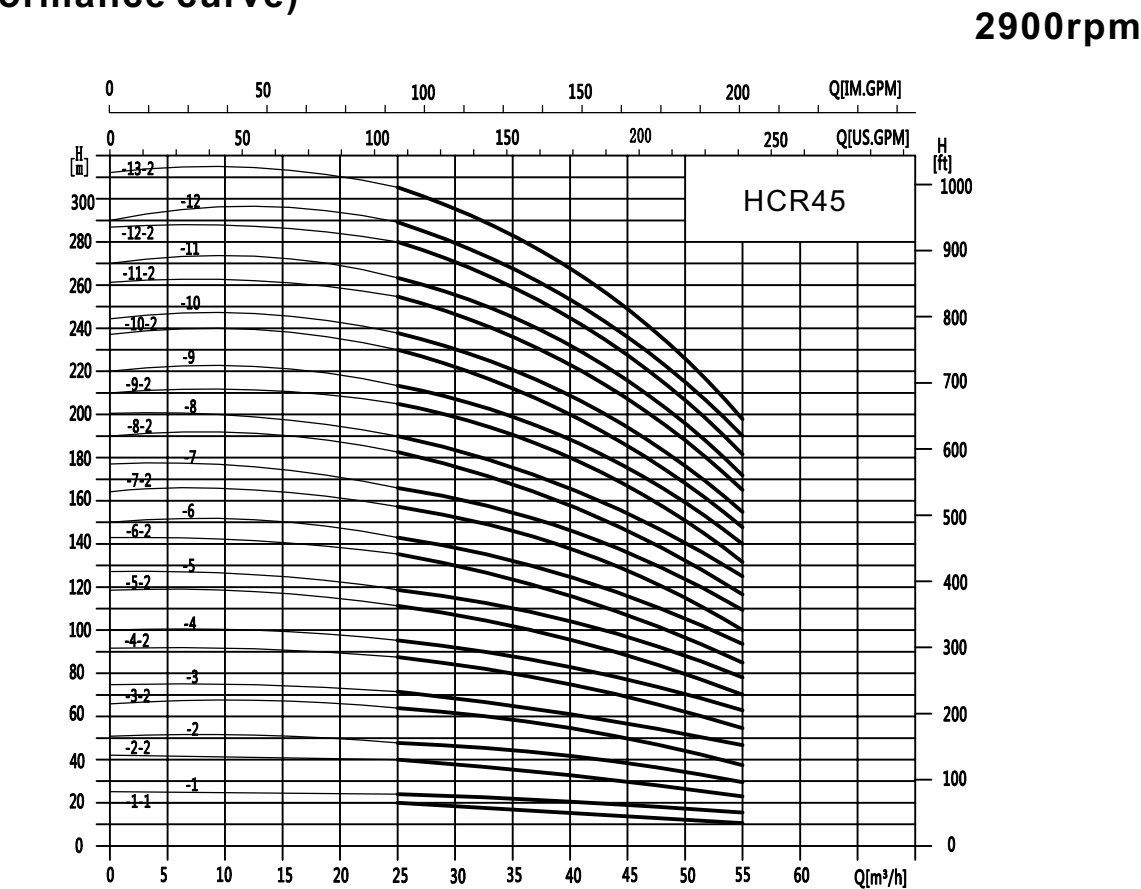
(Dimensions and weight)

Model	Dimensions(mm)					Weight
	B1	B2	B1+B2	D1	D2	kg
HCR32-1-1/HCR32-1	513	290	803	190	150	67/70
HCR32-2-2/HCR32-2	583	325/335	908/918	197/230	165/188	77/83
HCR32-3-2/HCR32-3	653	430	1083	260	208	92
HCR32-4-2/HCR32-4	723		1153			101
HCR32-5-2/HCR32-5	893	505	1398	330	255	177
HCR32-6-2/HCR32-6	963		1468			175
HCR32-7-2/HCR32-7	1033		1528			187
HCR32-8-2/HCR32-8	1103		1608			191
HCR32-9-2/HCR32-9	1173	560	1733			220
HCR32-10-2/HCR32-10	1243		1803			223
HCR32-11-2/HCR32-11	1313	590	1903	360	285	260
HCR32-12-2/HCR32-12	1383		1973			263
HCR32-13-2/HCR32-13	1453	660	2113	400	310	328
HCR32-14-2/HCR32-14	1523		2183			332

The external dimensions of single-phase motors and explosion-proof motors have changed. Please consult with us about them

Technical data

(Performance curve)

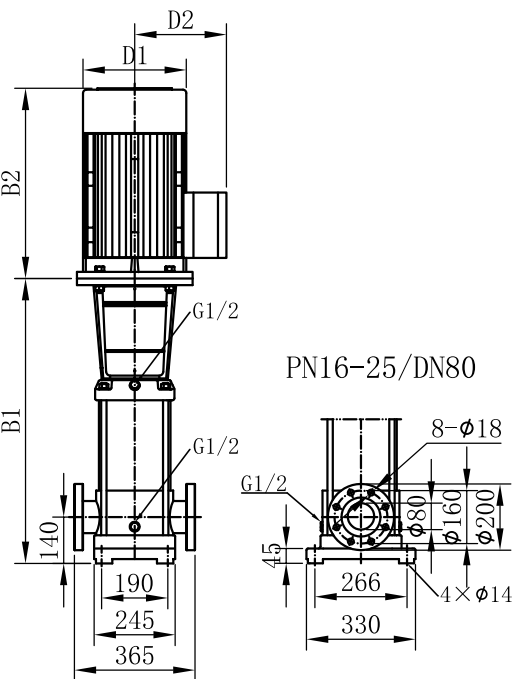


Technical data

(Performance table)

Model	Matching motor (KW)	Q (m³/h)	25	30	35	40	42	45	50	55
HCR45-1-1	3	H(m)	20	19	18	17	16	15	13	11
HCR45-1	4		24	23	22	21	20	19	18	16
HCR45-2-2	5.5		40	38	36	33	32	30	27	23
HCR45-2	7.5		48	46	44	42	41	39	35	31
HCR45-3-2	11		63	61	58	54	52	50	44	38
HCR45-3	11		71	69	66	63	61	58	53	47
HCR45-4-2	15		87	84	80	75	73	69	62	54
HCR45-4	15		95	92	88	84	81	78	71	62
HCR45-5-2	18.5		111	107	102	96	93	88	80	69
HCR45-5	18.5		119	115	110	105	101	97	88	78
HCR45-6-2	22		135	130	124	117	113	108	97	85
HCR45-6	22		143	138	132	125	122	116	106	93
HCR45-7-2	30		158	152	146	138	134	127	115	100
HCR45-7	30		166	161	154	146	142	135	124	109
HCR45-8-2	30		182	175	168	159	154	146	133	116
HCR45-8	30		190	184	176	167	162	154	141	124
HCR45-9-2	30		205	198	190	180	174	166	150	132
HCR45-9	37		214	207	198	188	183	174	159	140
HCR45-10-2	37		230	221	212	200	194	185	168	147
HCR45-10	37		238	230	220	209	203	193	177	155
HCR45-11-2	45		255	246	236	223	217	206	188	165
HCR45-11	45		263	255	244	232	225	214	196	173
HCR45-12-2	45		280	270	259	245	238	226	206	181
HCR45-12	45		289	280	268	255	247	236	216	190
HCR45-13-2	45		305	294	282	267	259	247	225	198

(Installation drawing)



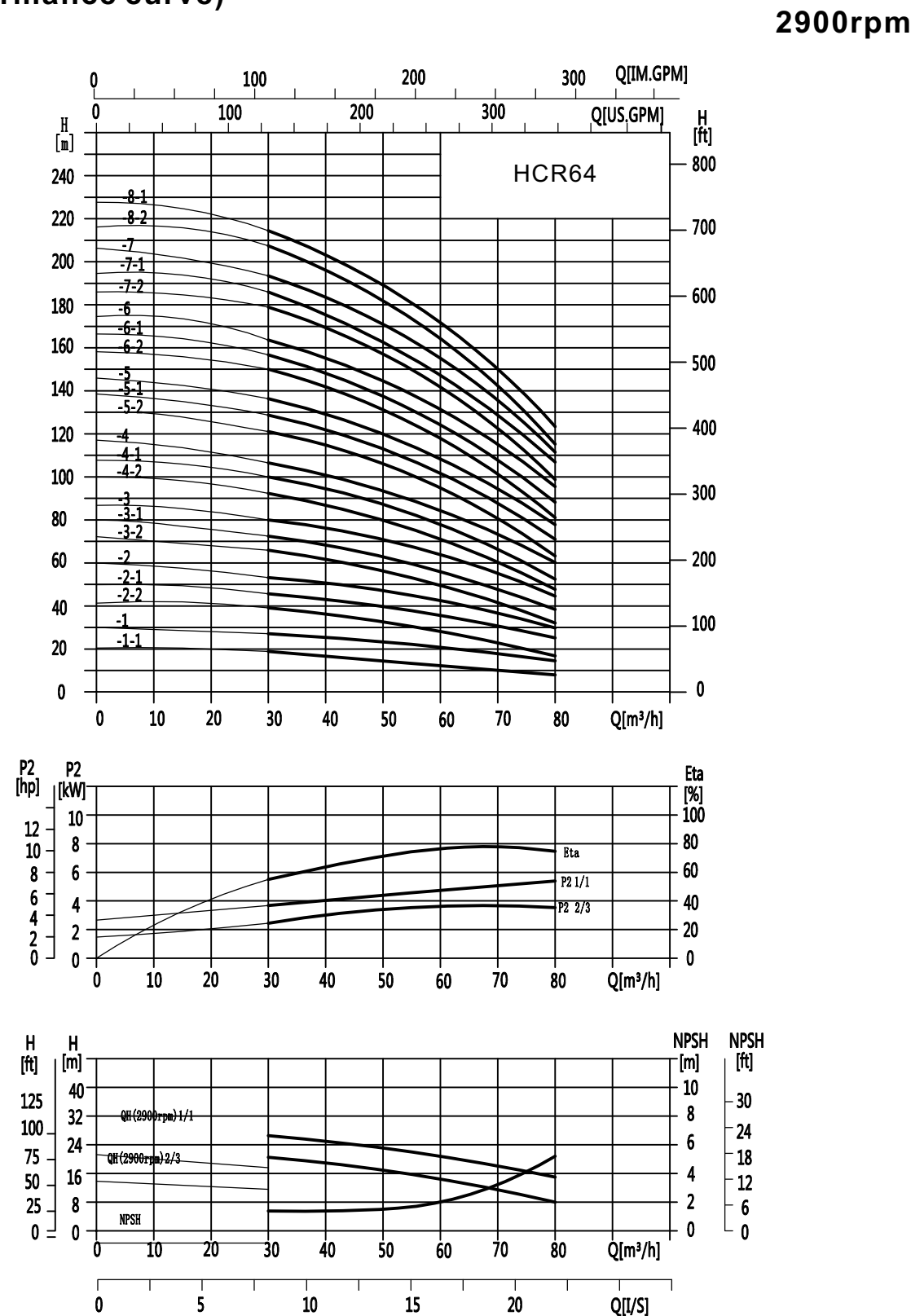
(Dimensions and weight)

Model	Dimensions(mm)					Weight kg
	B1	B2	B1+B2	D1	D2	
HCR45-1-1/HCR45-1	560	325/335	885/900	197/230	165/188	85/91
HCR45-2-2/HCR45-2	640	430	1070	260	208	101/106
HCR45-3-2/HCR45-3	820	505	1325	330	255	176
HCR45-4-2/HCR45-4	900		1405			188
HCR45-5-2/HCR45-5	980	560	1540			209
HCR45-6-2/HCR45-6	1060	590	1650	360	285	252
HCR45-7-2/HCR45-7	1140	660	1800	400	310	314
HCR45-8-2/HCR45-8	1220		1800			318
HCR45-9-2/HCR45-9	1300		1960			322/342
HCR45-10-2/HCR45-10	1380		2040			346
HCR45-11-2/HCR45-11	1490	700	2190	460	340	412
HCR45-12-2/HCR45-12	1570		2270			416
HCR45-13-2	1650		2350			420

The external dimensions of single-phase motors and explosion-proof motors have changed. Please consult with us about them

Technical data

(Performance curve)

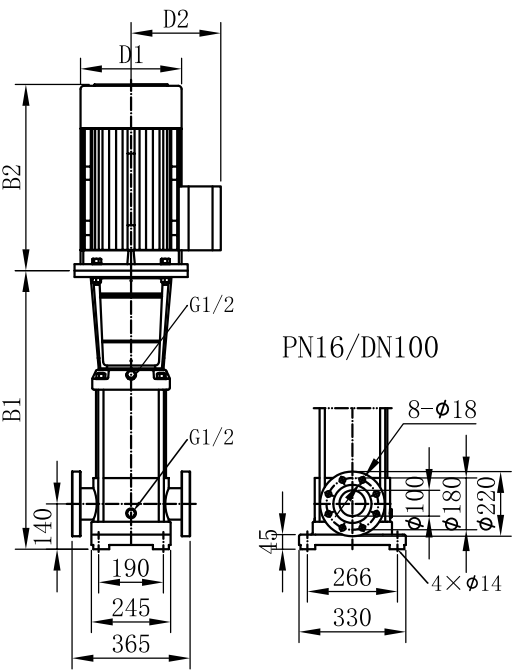


Technical data

(Performance table)

Model	Matching motor (KW)	Q (m³/h)	30	40	50	60	65	70	80
HCR64-1-1	4	H(m)	19	18	16	14	13	11	8
HCR64-1	5.5		27	25	23	21	20	18	15
HCR64-2-2	7.5		39	36	33	29	26	23	17
HCR64-2-1	11		46	44	40	36	33	30	24
HCR64-2	11		53	51	47	43	40	37	30
HCR64-3-2	15		66	62	56	50	46	41	32
HCR64-3-1	15		73	69	63	57	53	48	39
HCR64-3	18.5		80	76	70	64	60	55	46
HCR64-4-2	18.5		92	87	80	71	66	60	47
HCR64-4-1	22		100	94	87	78	73	67	54
HCR64-4	22		107	101	94	85	80	74	61
HCR64-5-2	30		121	114	105	95	88	80	64
HCR64-5-1	30		128	121	112	102	95	87	71
HCR64-5	30		136	129	119	109	102	94	78
HCR64-6-2	30		150	142	131	118	110	101	81
HCR64-6-1	37		157	149	138	125	117	108	88
HCR64-6	37		164	156	145	132	124	115	95
HCR64-7-2	37		179	169	156	141	132	121	99
HCR64-7-1	37		186	176	163	148	139	128	106
HCR64-7	45		193	183	170	155	146	135	112
HCR64-8-2	45		207	196	182	164	154	142	116
HCR64-8-1	45		215	203	189	171	161	149	123

(Installation drawing)



(Dimensions and weight)

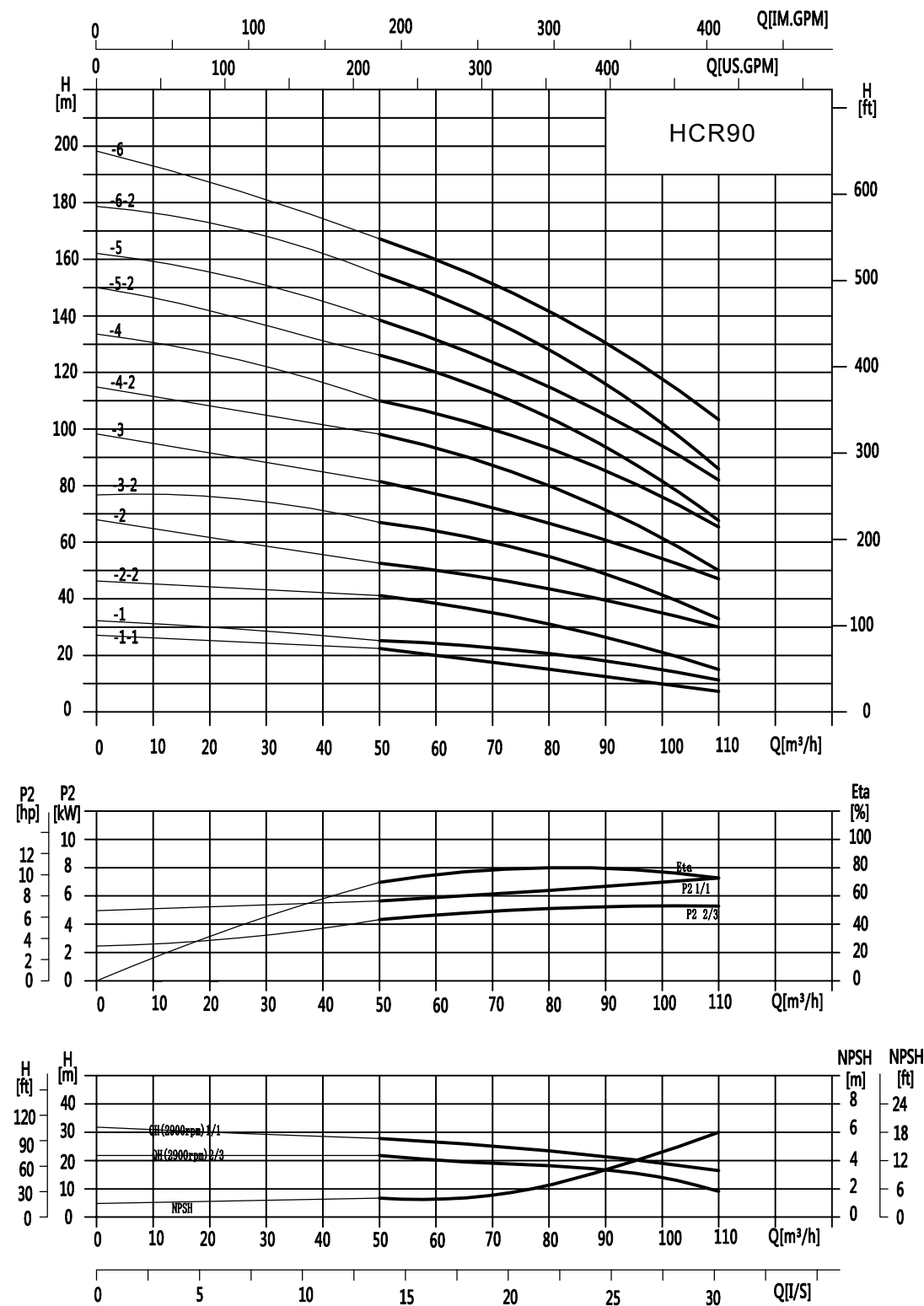
Model	Dimensions(mm)					Weight
	B1	B2	B1+B2	D1	D2	kg
HCR64-1-1	576	210	911	230	188	106
HCR64-1		430	1006	260	208	111
HCR64-2-2	658		1008			121
HCR64-2-1	758	505	1263	330	255	156
HCR64-2			840			1345
HCR64-3-2	560	1400				207
HCR64-3-1		922	1482	210		
HCR64-3	590		1512	360	285	261
HCR64-4-2						
HCR64-4-1	1004	660	1664	400	310	346
HCR64-4						
HCR64-5-2	1086					1746
HCR64-5-1		1168	1828	371		
HCR64-5	1198			1908	460	340
HCR64-6-2		1280	710			
HCR64-6-1	1908			1990	460	340
HCR64-6		1280	710			
HCR64-7-2						
HCR64-7-1						
HCR64-7						
HCR64-8-2						
HCR64-8-1						

The external dimensions of single-phase motors and explosion-proof motors have changed. Please consult with us about them

Technical data

(Performance curve)

2900rpm

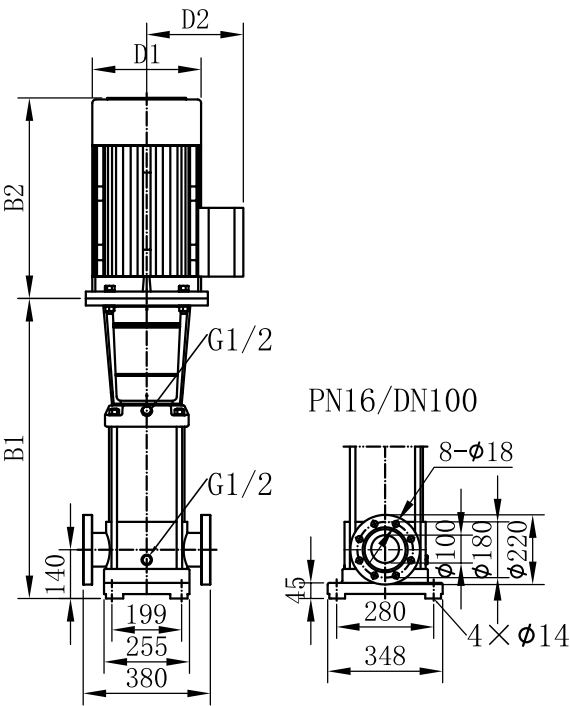


Technical data

(Performance table)

Model	Matching motor (KW)	Q (m³/h)	50	60	70	80	85	90	100	110
HCR90-1-1	5.5	H(m)	22	19	17	16	14	13	10	6
HCR90-1	7.5		25	24	22	21	20	19	16	12
HCR90-2-2	11		41	39	36	32	30	28	22	15
HCR90-2	15		53	50	47	44	41	40	36	30
HCR90-3-2	18.5		68	65	60	55	52	49	41	32
HCR90-3	22		81	77	72	67	64	62	55	48
HCR90-4-2	30		98	93	87	80	75	72	62	50
HCR90-4	30		110	105	100	92	86	84	76	66
HCR90-5-2	37		126	120	113	104	98	93	81	68
HCR90-5	37		139	131	124	115	110	106	94	83
HCR90-6-2	45		155	148	139	129	122	117	102	86
HCR90-6	45		168	160	150	141	134	130	117	103

(Installation drawing)



(Dimensions and weight)

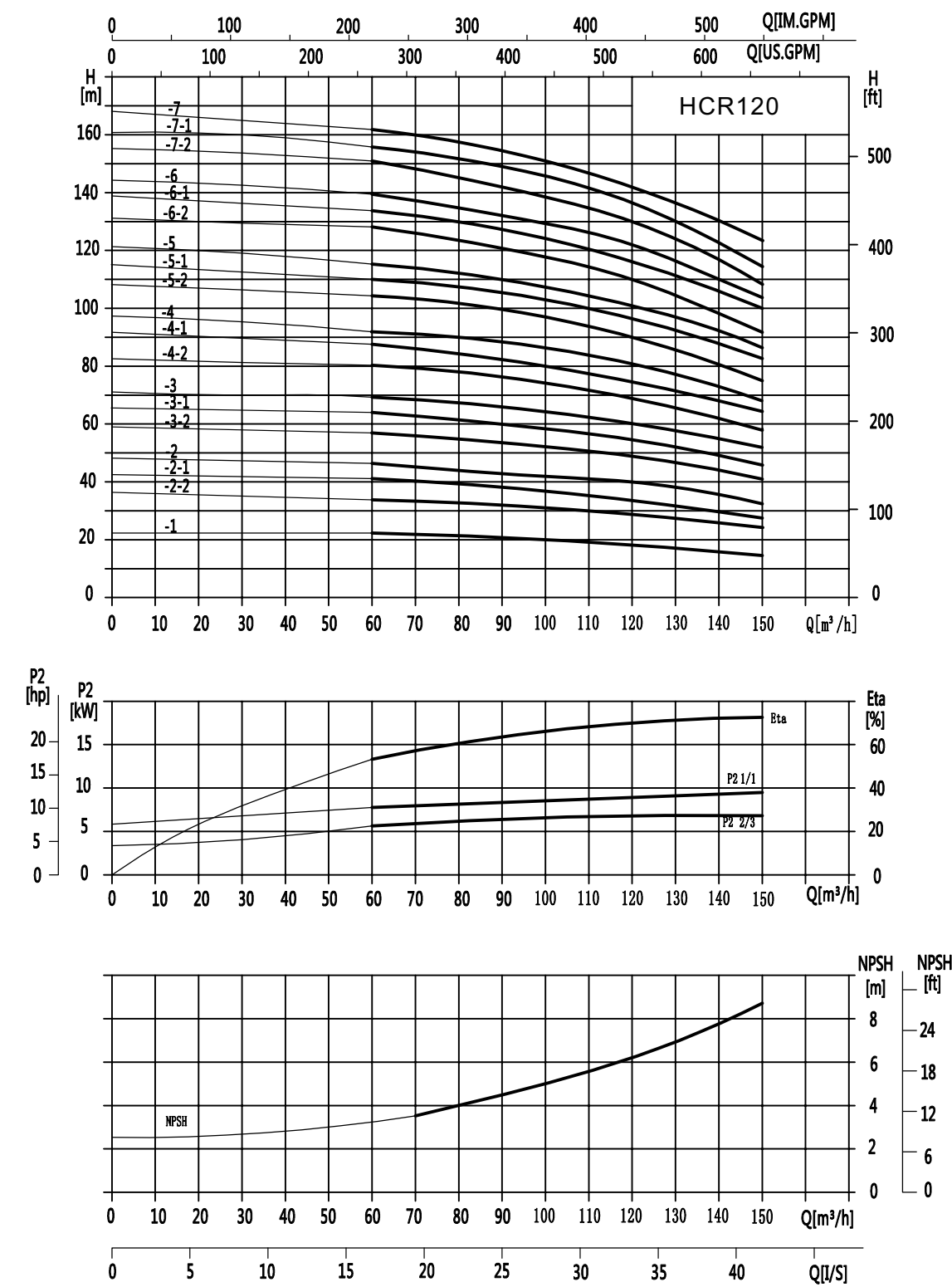
Model	Dimensions(mm)					Weight							
	B1	B2	B1+B2	D1	D2	kg							
HCR90-1-1	587	430	1017	260	208	122							
HCR90-1						124							
HCR90-2-2	779	505	1284	330	255	167							
HCR90-2						200							
HCR90-3-2	871	560	1431			360	285	214					
HCR90-3		590	1461	268									
HCR90-4-2	963	660	1623	400	310	350							
HCR90-4			1715			377							
HCR90-5-2	1055												
HCR90-5													
HCR90-6-2	1177	700	1887	460	340	440							
HCR90-6													

The external dimensions of single-phase motors and explosion-proof motors have changed.Please consult with us about them

Technical data

(Performance curve)

2900rpm

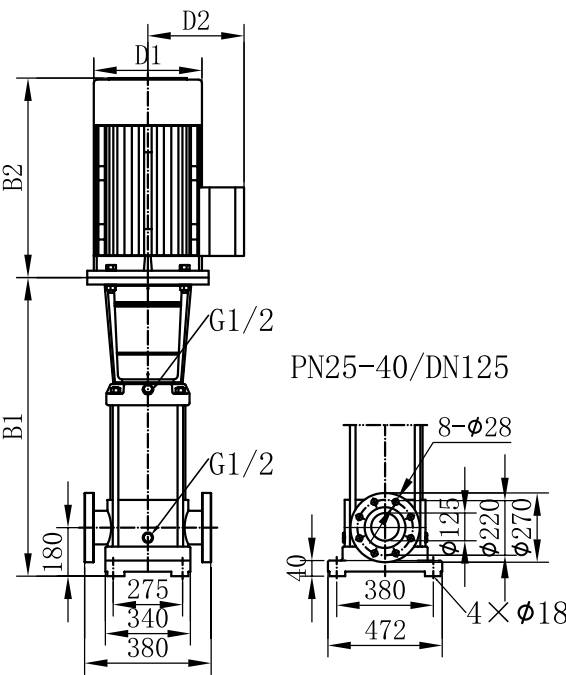


Technical data

(Performance table)

Model	Matching motor (KW)	Q (m³/h)	60	70	80	90	100	110	120	130	140	150
HCR120-1	11	H(m)	22	21.8	21.6	21	20.5	19.5	18.5	17	16	15
HCR120-2-2	15		34	33.6	33	31	30.2	30	28.5	27	25	24
HCR120-2-1	18.5		41	40	39.5	38.5	37	36.5	34.5	32.5	30	27.5
HCR120-2	22		46	45	44.5	43.5	42.4	41	40	38	36	33.5
HCR120-3-2	30		57	56	55	53.5	52	51	49	46.5	43.5	41
HCR120-3-1	30		64	63	62	60	58.5	57.5	55.5	52	49	46
HCR120-3	30		69.5	68.5	67.5	66	64.4	62.5	61	57.5	54.5	51
HCR120-4-2	37		80.5	79	78	76	73.5	72	69	66	61.5	58
HCR120-4-1	37		87	86	84.5	82	80	78	76	72	68	64.5
HCR120-4	45		92.5	91	90	88	85.5	83	81	77	73	68.5
HCR120-5-2	45		104.5	103	101	99	96	93	90	85.5	80.5	75.5
HCR120-5-1	45		110.5	109	107.5	105	102	100	97	92	86.5	83
HCR120-5	55		115.5	114	113	110	107.5	104.5	101.5	96	91	86
HCR120-6-2	55		128	125.5	123	121	117.3	113.5	110	104.5	98.5	92.5
HCR120-6-1	55		134	132	130.5	127	124	121	118	111	105	100
HCR120-6	75		139	137	135	132	128.8	126	123	116	110	109
HCR120-7-2	75		151	148	145.5	143	138.6	134	130	123.5	116.5	109
HCR120-7-1	75		156.5	154	152	148.5	144.5	141	137.5	130	123	116.5
HCR120-7	75		162.5	160.5	158.5	155	151	148	145	137	129	123

(Installation drawing)



(Dimensions and weight)

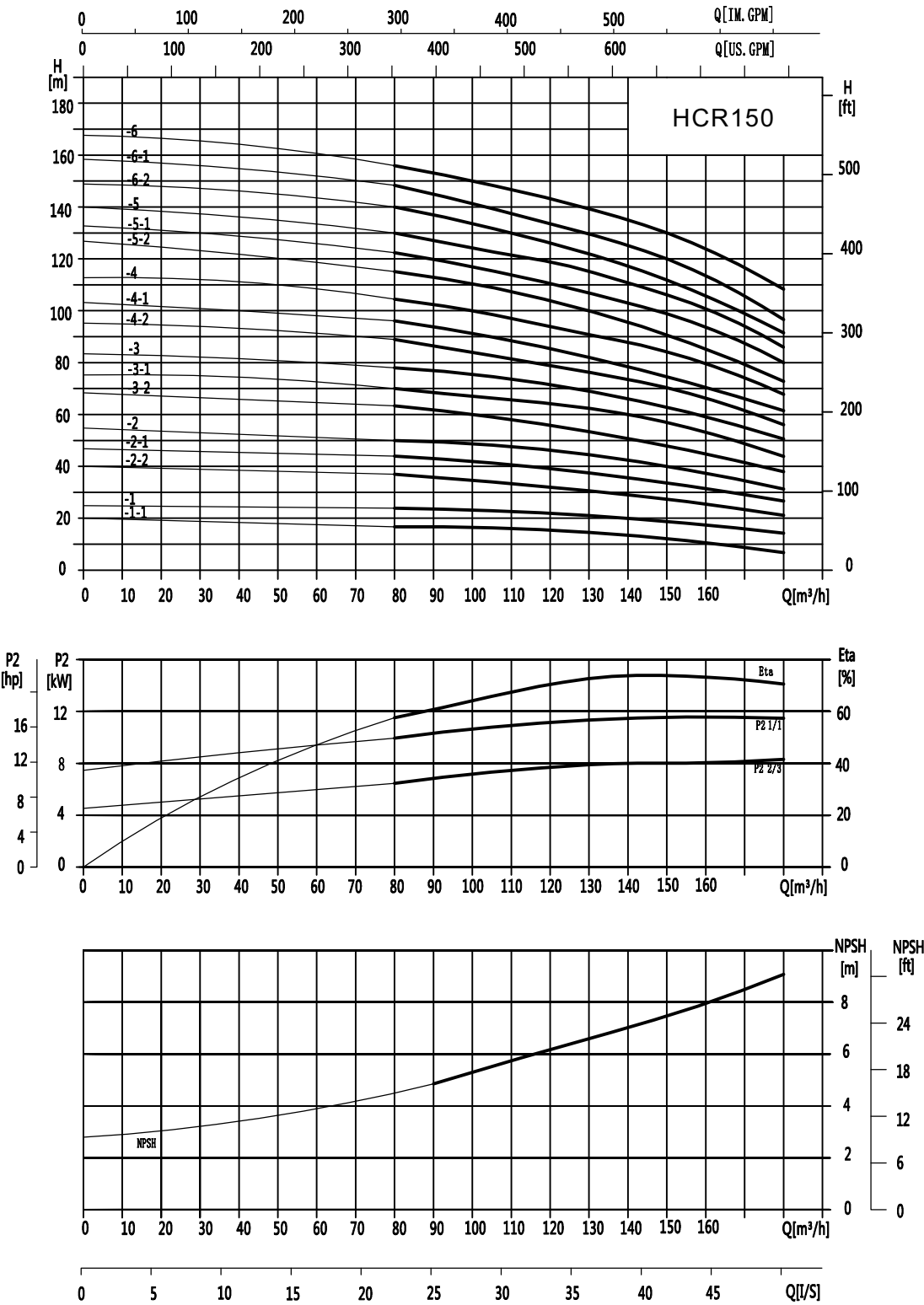
Model	Dimensions(mm)					Weight
	B1	B2	B1+B2	D1	D2	kg
HCR120-1	840	490	1330	330	255	230
HCR120-2-2	1000	490	1490	330	255	245
HCR120-2-1	1000	550	1550	330	255	250
HCR120-2	1000	590	1590	360	285	285
HCR120-3-2	1160	660	1820	400	310	360
HCR120-3-1	1160	660	1820	400	310	360
HCR120-3	1160	660	1820	400	310	360
HCR120-4-2	1320	660	1980	400	310	400
HCR120-4-1	1320	660	1980	400	310	400
HCR120-4	1320	700	2020	460	340	460
HCR120-5-2	1480	700	2180	460	340	470
HCR120-5-1	1480	700	2180	460	340	470
HCR120-5	1510	770	2280	540	370	575
HCR120-6-2	1670	770	2440	540	370	585
HCR120-6-1	1670	770	2440	540	370	585
HCR120-6	1670	845	2515	580	410	705
HCR120-7-2	1830	845	2675	580	410	715
HCR120-7-1	1830	845	2675	580	410	715
HCR120-7	1830	845	2675	580	410	715

The external dimensions of single-phase motors and explosion-proof motors have changed. Please consult with us about them

Technical data

(Performance curve)

2900rpm

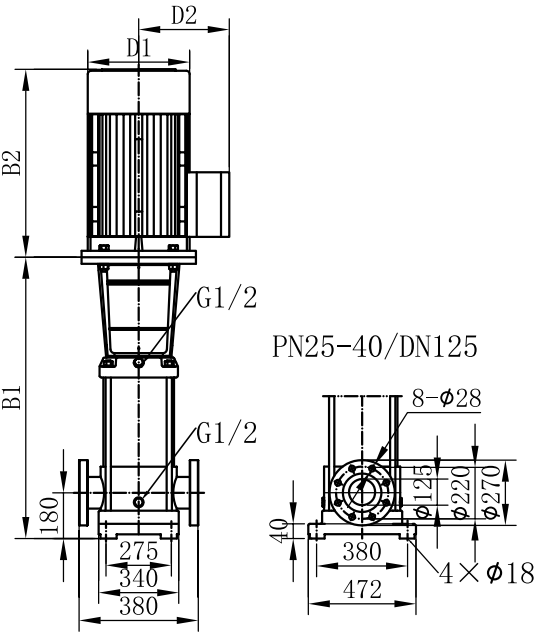


Technical data

(Performance table)

Model	Matching motor (KW)	Q (m³/h)	80	90	100	110	120	130	140	150	160	170	180
HCR150-1-1	11	H(m)	18.3	17.8	17.3	17	16	15	14	12.5	11	10	8.5
HCR150-1	15		24	23	22.5	22	21.5	20.5	20	18.5	17	16	15
HCR150-2-1	18.5		37	35.5	34	33	32	31	29	27.5	26	23	21
HCR150-2	22		44.3	43	42	40	39	38.5	37.5	35	33	30	27
HCR150-3-2	30		50	49	48	47	45.5	44	42	40	37	34	32
HCR150-3-1	30		63.5	61	59	57.5	56	54.5	53	49	45.5	42	39
HCR150-3	37		70	68	67	65	63	62	60	56	53	49	45
HCR150-4-2	37		78	76.5	75	73	70.5	68	66	63	59	55	50.5
HCR150-4-1	45		89	87	84	81.5	79	77	74.5	70.5	65.5	60	56
HCR150-4	45		96.5	94	91.5	89	86.5	84	81.5	77	72.5	67	62
HCR150-5-2	55		104	102	100	97	95	91	88	84	79.5	74	68
HCR150-5-1	55		115.5	112	109	106	102.5	100	97	92	86	79	73.5
HCR150-5	75		122.5	119.5	117	113.5	111.5	107.5	104.5	99	93.5	87	80
HCR150-6-2	75		130	127.5	125	121	119	115	111.5	106.5	101	94.5	86.5
HCR150-6-1	75		140	137	133	130	126	121	118	112	106	98	91
HCR150-6	75		148.5	145	141.7	137.5	135	131	127	120.5	114.5	106.5	97.5
			157	153	149	145	142	139.5	137	130	123.5	116	109

(Installation drawing)



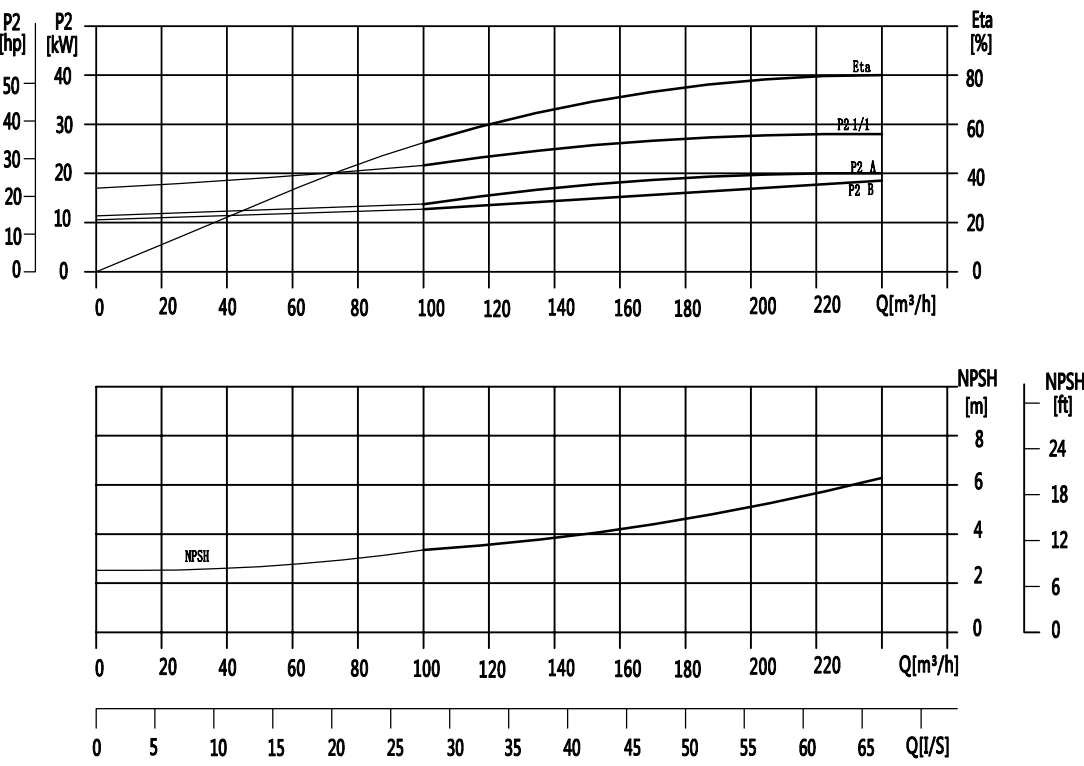
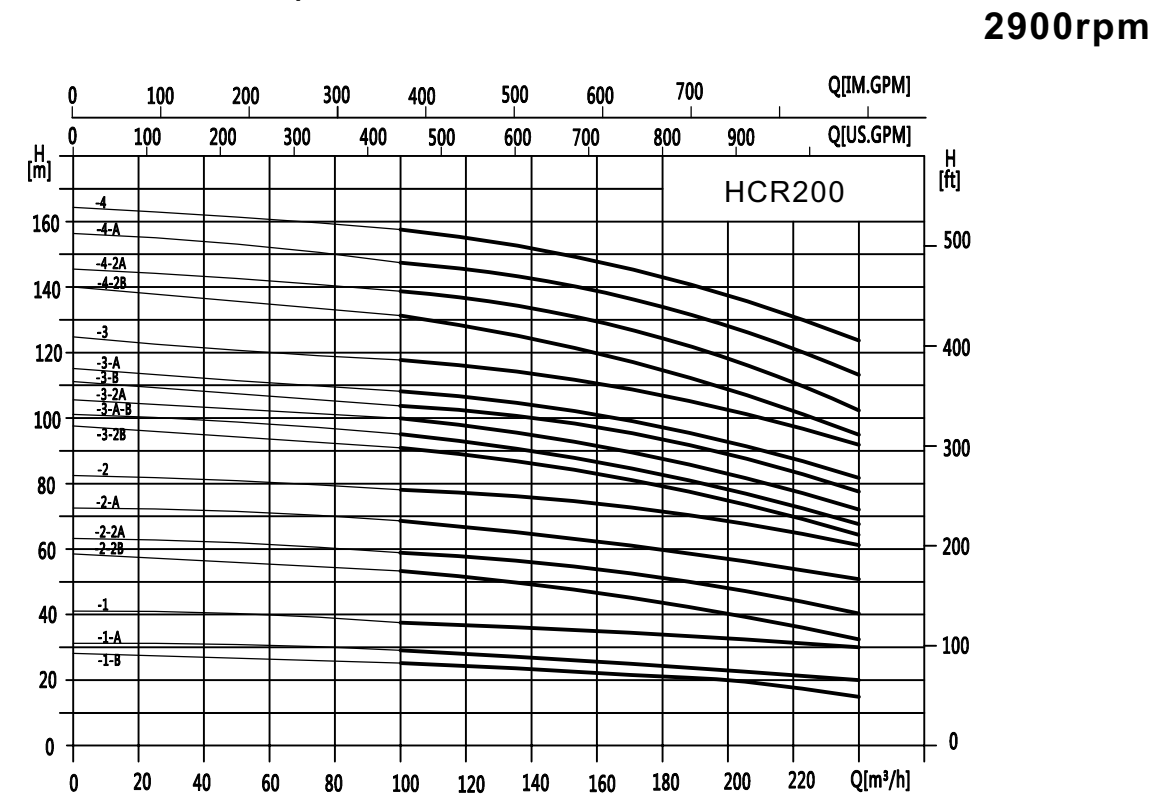
(Dimensions and weight)

Model	Dimensions(mm)					Weight kg
	B1	B2	B1+B2	D1	D2	
HCR150-1-1	840	490	1330	330	255	230
HCR150-1	840	490	1330	330	255	235
HCR150-2-2	1000	550	1550	330	255	250
HCR150-2-1	1000	590	1590	360	285	295
HCR150-2	1000	660	1660	400	310	350
HCR150-3-2	1160	660	1820	400	310	360
HCR150-3-1	1160	660	1820	400	310	360
HCR150-3	1160	660	1820	400	310	385
HCR150-4-2	1320	700	2020	460	340	460
HCR150-4-1	1320	700	2020	460	340	460
HCR150-4	1350	770	2120	540	370	560
HCR150-5-2	1510	770	2280	540	370	570
HCR150-5-1	1510	845	2355	580	410	690
HCR150-5	1510	845	2355	580	410	690
HCR150-6-2	1670	845	2515	580	410	700
HCR150-6-1	1670	845	2515	580	410	700
HCR150-6	1670	845	2515	580	410	700

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Technical data

(Performance curve)

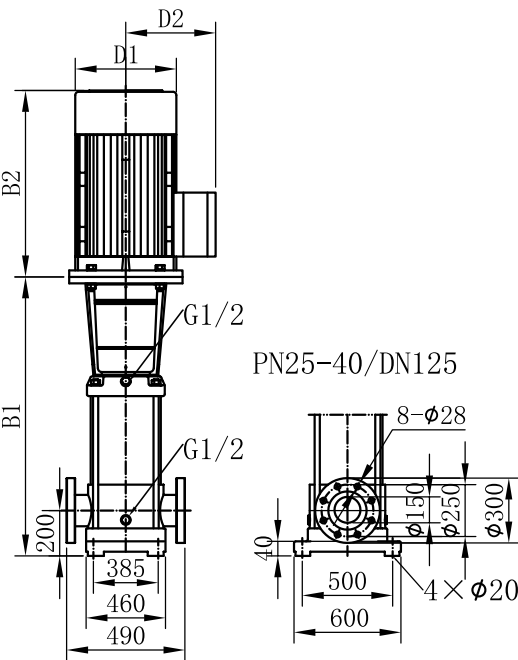


Technical data

(Performance table)

Model	Matching motor (KW)	Q (m³/h)	100	120	140	160	180	200	220	240
HCR200-1-B	18.5	H(m)	25.5	25	24	23	21.5	20	18	15.5
HCR200-1-A	22		29	28.5	27.5	26.5	25.5	24	22	20
HCR200-1	30		38.5	38	37.5	36.5	35	34	32.5	30
HCR200-2-2B	37		53	51	49	47	44	41	37	32
HCR200-2-2A	45		59.5	58	56	54	52.5	49	44.5	40.5
HCR200-2-A	55		69	68	66	64	62	59	55.5	51
HCR200-2	55		78.5	77.5	76	74	71.5	69	66	61.5
HCR200-3-2B	75		91.5	89	86.5	83.5	79	75	70	63
HCR200-3-A-B	75		95	93	90	87	83.5	79	73.5	67
HCR200-3-2A	75		99.5	97.5	94.5	91.5	89	84	78.5	72
HCR200-3-B	75		104.5	102.5	100	97	93	89	84.5	77.5
HCR200-3-A	75		108	106	103.5	100.5	97.5	93	88	81.5
HCR200-3	90		117.5	116	113.5	110.5	107	103	99	92
HCR200-4-2B	90		131.5	129	125.5	121	115.5	110	103.5	94
HCR200-4-2A	110		138.5	136	132	128	124	118	111	102.5
HCR200-4-A	110		148	145.5	142.2	138	134	128	122	113
HCR200-4	110		157.5	155.5	152.5	148	143.5	138	132.5	123.5

(Installation drawing)



(Dimensions and weight)

Model	Dimensions(mm)					Weight
	B1	B2	B1+B2	D1	D2	kg
HCR200-1-B	907	550	1457	330	255	311
HCR200-1-A		575	1482	360	285	347
HCR200-1		650	1557	400	310	403
HCR200-2-2B	1751		447			
HCR200-2-2A	1101	685	1786	460	340	504
HCR200-2-A	1131	760	1891	540	370	595
HCR200-2						
HCR200-3-2B	1325	845	2170	580	410	748
HCR200-3-A-B						
HCR200-3-2A						
HCR200-3-B						
HCR200-3-A						
HCR200-3	895	2220	2414			817
HCR200-4-2B						830
HCR200-4-2A	1519	1140	2659	645	550	1180
HCR200-4-A						
HCR200-4						

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