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General Catalogue

SHIMGE PUMP INDUSTRY (ZHEJIANG) CO., LTD.

Stainless Steel Multi-Stage Centrifugal Pump

50Hz

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CATALOG

Stainless Steel Multi-Stage Centrifugal Pump

Company Profile

Established in 1984 and headquartered in Daxi Town, Wenling City, Zhejiang Province—a town with flourishing pump industry, Shimge Pump Industry (Zhejiang) Co., Ltd. is a limited liability company specialized in producing various kinds of pumps and control equipment. For over three decades, Shimge Pump Industry has been committed to technical researches, manufacturing and marketing of all kinds of pumps and control equipment, as well as providing first-class pumps and water treatment system solutions for the world.

Based on keen market insight, the company developed the "screw pump" in 1987, which filled the gap in the domestic market at that time. Due to its excellent quality, Shimge soon stood out in the industry, and started its journey as a legendary brand in China's pump industry. The company was once successfully listed in the A-share market in Shenzhen Stock Exchange on December 31, 2010 (stock code: 002532. According to the development strategy of the company, it was delisted in the form of asset reorganization and completed privatization in July 2020`). Currently, the company has 6 major brands, 12 product series with more than 2,000 specifications, and 8 holding subsidiaries, becoming a real leading brand in China's pump industry.

Shimge's production base in HangZhou, Zhejiang Province

Shimge's production base in SanChiku, Wenling, Zhejiang Province

Shimge's casting parts production base in JiangSu Province

Shimge's casting production base in JiangXi Province

Shimge's casting production base in JiangSu Province

High Quality Production

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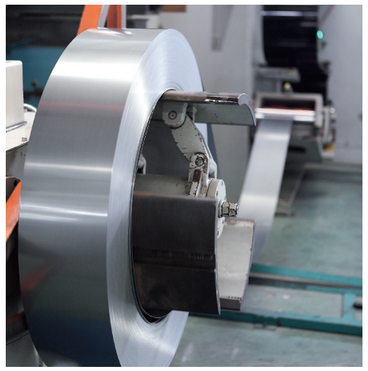
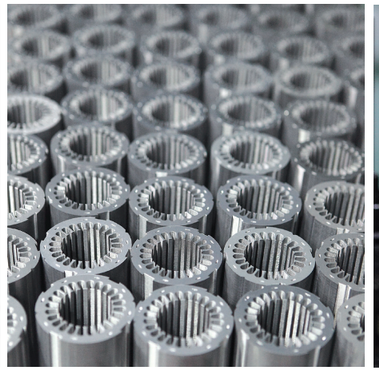
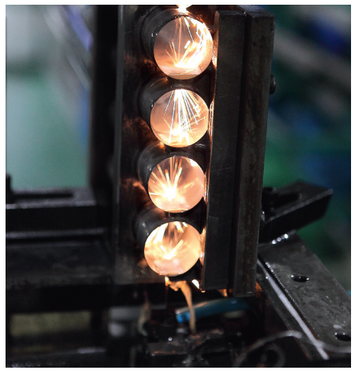
Shimge sticks on the comprehensive innovation on R&D and production process which commits to improve the production process and efficiency.



On one hand, we strengthen the professional skill of workers by sustaining training, and on the other, we put into the robot automatic production machine instead of manual work. By those ways, we have not only reduced the manufacturing cost, but also improved the product quality and stability.

Strict Quality Control

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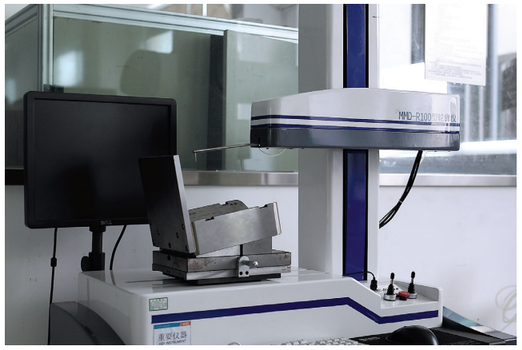
Since its establishment, Shimge has always actively promoted comprehensive “lean” quality and environment management, and has currently passed ISO9001, ISO14001 and OHSAS18001 certification, introduced excellent performance management in line with GB/T 19580 and established a sound quality assurance system.



SHIMGE has equipped an industry-leading physicochemical testing center, and its delivery performance inspection platform has reached a precision of grade B (grade 1) in the evaluation conducted by an authoritative agency. In addition, its products have passed GS, CE and UL certification, and met the specifications of the RoHS Directive.

Vertical Multi-Stage Centrifugal Pumps

BL(T)

High-efficiency standard motor, NSK、SKF bearings and cold-rolled 50ww800 silicon steel sheet made the pump high efficiency, low noise and maintenance-free. Totally enclosed shaft seal, IP55 protection grade, F class insulation grade, the special "double-lock" drive end bearing made the pump withstand higher inlet pressure.

Balanced & container-type shaft seal with all the parts assembled together, no axial rotating to prevent the shaft and rubber parts from wearing, with the characteristics of rapid changing, easy installation and safe operation.Dynamic sealing is made of cemented carbide materials and the static sealing is fluorine rubber material which make the mechanical seal to be high temperature resistance, long service life, easy changing and other significant characteristics.

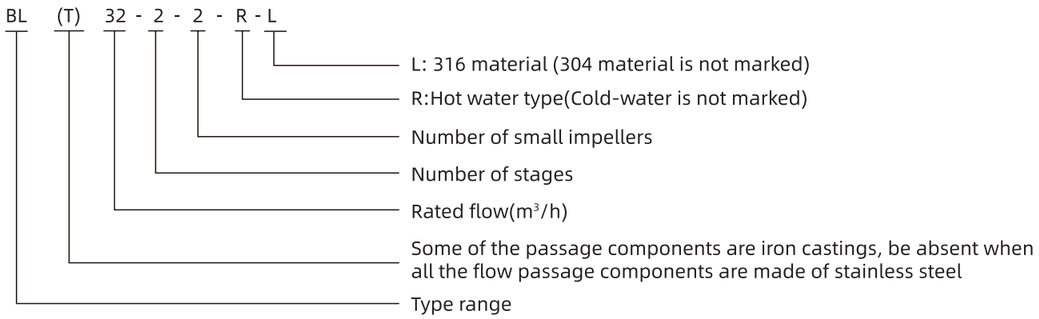
Being produced by the most advanced international laser welding technology,, no eliminate welding, ensure the high intensity and efficiency. The processing technology: precision casting, CNC lathe, CNC machining center, the modern advanced technology such as the laser welding technique and processing equipment.

The built-in floating sealing ring of the pump cavity body could minimize the internal leakage produced by the differential pressure and prevent the energy consumption when liquid leaking back to the pump cavity body.

The pump core parts are designed to be multilevel interlocking, fastening nut locked, component system interlock assembly industry, to minimize the gap between the impeller per level, improve the efficiency of the impeller water conservancy, and ensure the stability, reliablity and efficiency of the pump core components.

Cold extrusion spline shaft with good surface quality, high machining accuracy, at the same time improve the comprehensive mechanical properties of the shaft and the reliability of the pump

Model Instruction



Overview Of The Product

BL(T) series stainless steel multi-stage centrifugal pump (afterwards called pump)boasts characters of high efficiency, low noise, steady operation, etc.The pump set adopts the non-self-priming vertical multi-stage structure, which makes a compact whole,its installation easy, its operation and maintenance convenient.

Application Limits

◎ Medium temperature: normal type:0℃ ~68℃ hot water type:0℃ ~120℃,
◎ Ambient temperature:+40℃ ,
◎ Advisable to use motor of higher power in case that the density or viscosity of medium is above that of water.
◎ pH: 5 to 8

Application Limits

Water supply	BL	BLT
Filtration and transfer at waterworks	●	●
Distribution from waterworks	●	●
Pressureboosting in mains	●	●
Pressure boosting in high-rise buildins,hotels,etc.	●	●
Pressure boosting for industrial water supply	●	●
Industry		
Pressure boosting	●	●
Process water systems	●	●
Washing and cleaning systems	●	●
Vehicle washing tunnels	●	●
Fire fighting systems	●	●
Liquid transfer		
Cooling and air-conditioning systems(refrigerants)	●	●
Boiler feed and condensate systems	●	●
Machine tools(cooling lubricants)	●	●
Aquafarming	●	●
Transfer		
Oil and alcohol	●	●
Glycol and coolants	●	●

Water treatment	BL	BLT
Ultra-filtration systems	●	○
Reverse osmosis systems	●	○
Softening, ionising, demineralizing systems	●	○
Distillation sys tems	●	○
Separators	●	○
Swimming baths	●	●
Irrigation		
Field irrigation(flooding)	●	●
Sprinkler irrigation	●	●
Drip-feed irrigation	●	●

Certificate

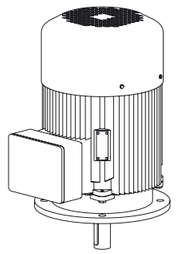
CE

Electric Motor

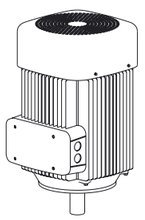
◎ Full-enclosed and ventilating two-pole standard motor
◎ Protection class: IP55
◎ Insulation class: F
◎ Standard voltage Single phase 220V-50Hz Three phase:220/380V-50Hz

Energy Efficiency Standard (IEC60034-1)

	Standard	Specific	
Power(kW)	Efficiency(2P, IE2)	Efficiency(2P,IE3)	motor structure
0.75	77.4	80.7	IMV18
1.1	79.6	82.7	
1.5	81.3	84.2	
2.2	83.2	85.9	
3	84.6	87.1	
4	85.8	88.1	
5.5	87	89.2	
7.5	88.1	90.1	
11	89.4	91.2	IMV1
15	90.3	91.9	
18.5	90.9	92.4	
22	91.3	92.7	
30	92	93.3	
37	92.5	93.7	
45	92.9	94	
55	93.2	94.3	
75	93.8	94.7	
90	94.1	95	
110	94.3	95.2	



IM V1



IM V18

Calculation Of minimum Inlet Pressure

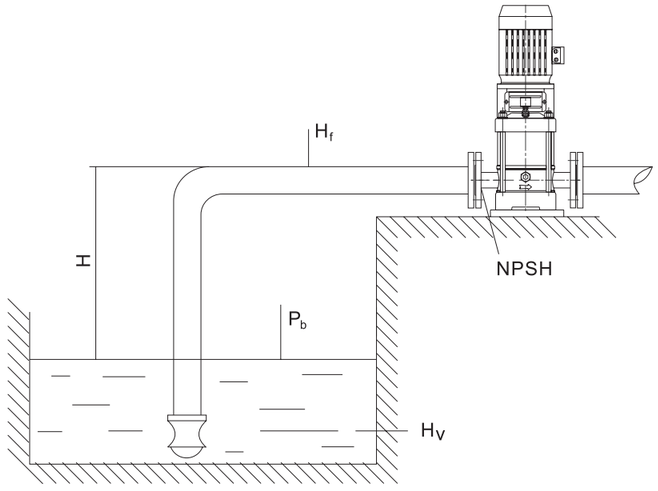
If the pressure in pump is lower than the vapour pressure of medium, cavitation will occur, which will affect the performance of pump. To avoid the cavitation and ensure the pump inlet has a minimum pressure, maximum suction head should be calculated as following:

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

Pb: Atmospheric pressure, bar (In close pipeline system, it can be considered as the system pressure);
NPSH: Net positive suction head, m (Value at maximum flow of Q-NPSH curve);
Hf: Suction pipe line loss (Value at maximum flow of corresponding pipeline);
Hv: Medium vapour pressure, m (Medium vapour pressure at corresponding temperature, the default medium is water, as shown in figure4 on the right);
Hs: Safety margin, m, general value is 0.5.
Calculation result: if H is positive, the pump is installed in suction way, otherwise, it is installed in downdraft way.

Note: It is not necessary to do above calculation under general conditions. Only when we use pump in the following situations do we need to calculate the H:

- **Medium temperature is high;**
- **The velocity of flow is larger than rated value;**
- **Suction head is big or inlet pipeline is long;**
- **System pressure is small;**
- **Inlet condition is bad.**



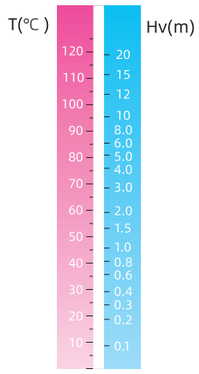


Fig. 2

Selection Of Pumps

- **Duty point of the pump.**
- **Dimensional data such as pressure loss as aresult of height differences,friction loss in the pipework,**
- **Pump efficiency etc.**
- **Pump materials**
- **Pump connections**
- **Commonly used mechanical seal configuration tables**

Duty point of the pump:

From a duty point it is possible to select a pump on the basis of the curve charts shown in "performance curves/technical" data.

Dimensional data:

When sizing a pump the following must be taken into accounting:

- **Required flow and pressure at the draw-off point.**
- **Pressure loss as a result of height differences.**
- **Friction loss in the pipework(Hf) (Refer to Fig.1) It may.**
- **Best efficiency at the estimated duty point.**
- **NPSH value.**
- **For calculation of the NPSH value, see corresponding curves chart.**

Pump efficiency:

Before determining the best efficiency point, the operation pattern of the pump needs to be identified. If the pump expected to operate as the same duty point, then select a BL pump which is operating at a duty point corresponding with the best efficiency of the pump.
As the pump is sized on the basis of the highest possible flow, it is important always to have the duty point to the right on the efficiency curve(eta) in order to keep efficiency high when the flow drops.

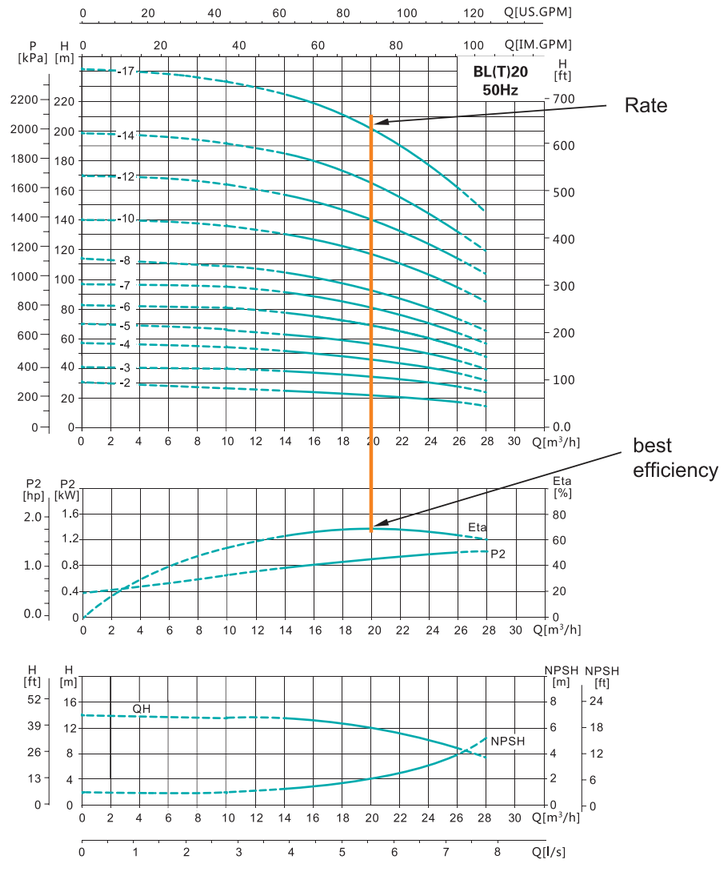


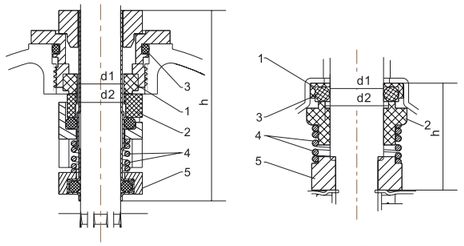
Fig.3

Pump material:

Selection of pump connection depend on the rated pressure and pipe work. the pump offer a wide range of texible connection such as:

Loose round flange
Pipe thread
Oval flange
Round flange

Commonly used mechanical seal configuration tables



NJK

NDA

Serial No.	Configuration	Configuration description	Applicable working conditions	Configuration situation
1	A:W(FC)	resin impregnated graphite dynamic ring A,hard alloy static ring W,fluororubber F,Structural parts stainless steel C	1. Normal working condition of cold water at 0°C~68°C, containing no particle, with oil allowed. 2. Normal working condition of hot water at 68° C~90° C, containing no particle, with oil allowed	Conventional
2	S:S(EC)	silicon carbide dynamic ring S, silicon carbide static ring S,EPDM E,Structural parts stainless steel C	1. Working condition of hot water at 90° C~120° C, containing a small number of particles but no oil.	Conventional
3	S:S(FC)	silicon carbide dynamic ring S, silicon carbide static ring S,fluororubber F,Structural parts stainless steel C	1. Acid medium PH=5-7. 2. Alkaline medium PH=5-7. 3. Working condition of hot water at 68° C~90° C, containing a small number of particles and oil. 4. Oil products.	Customized
4	W:W(EC)	hard alloy dynamic ring W, hard alloy static ring W, EPDM E,Structural parts stainless steel C	1. Frozen water below 0° C. 2 Alkaline medium with crystals. 3. Medium containing a lot of particles. 4. Working condition with the pressure higher than 2MPa.	Customized

Mechanical seal type	Pump model	d1	d2	d3
NJK	BL(T)2/4	12	12	55
	BL(T)8/12/16/20	16	16	57.5
	BL(T)32/45/64/90	22	22	72
NDA	BW(J)2/4	12.7	16	32
	BW(J)8/16	17.4	20	33.5

Maximum Work Pressure

Model	Curve No.
BL(T)2,4	2
BL(T)8,12,16,20	3
BL(T)32-2-2~BL(T)32-7	1
BL(T)32-8-2~BL(T)32-12	4
BL(T)32-13~BL(T)32-15-2	5
BL(T)45-2-2~BL(T)45-6	1
BL(T)45-7-2~BL(T)45-9	4
BL(T)45-10-2~BL(T)45-13-2	5
BL(T)64-2-2~BL(T)64-5-2	1
BL(T)64-5-1~BL(T)64-8	4
BL(T)90-2-2~BL(T)90-4-2	1
BL(T)90-4~BL(T)90-6	4
BL(T)120, 150, 200	6

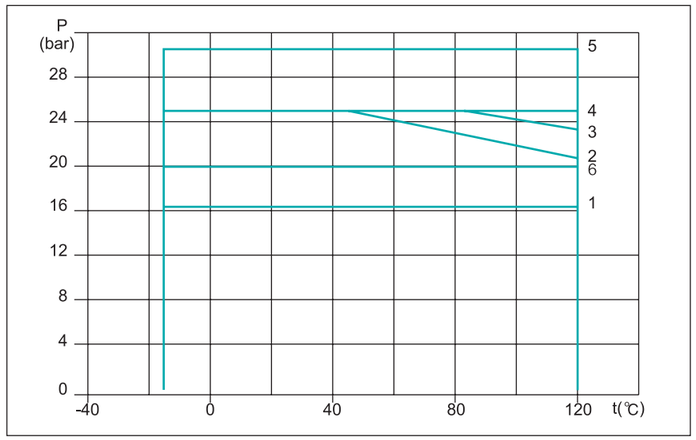
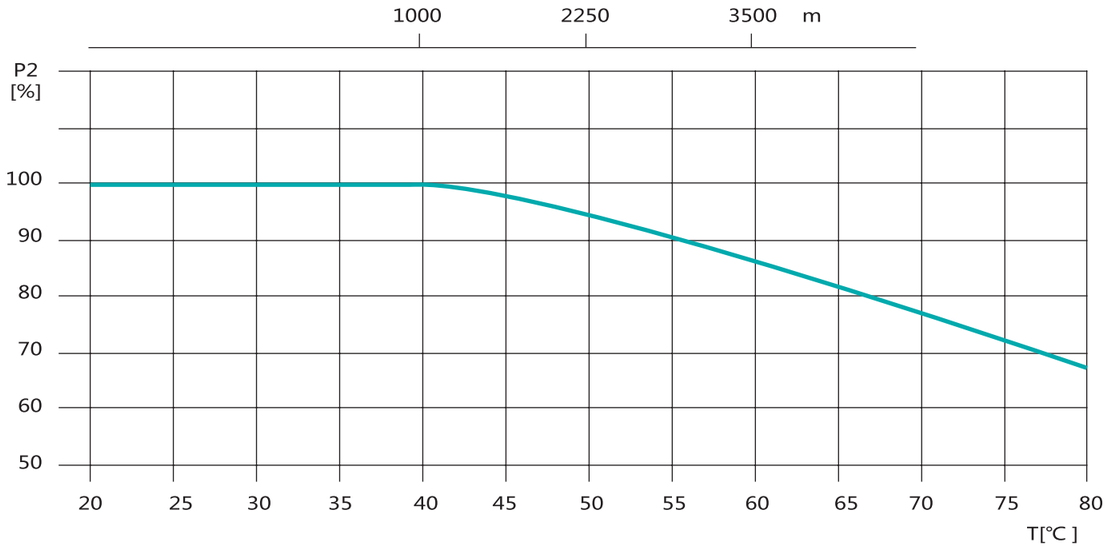


Fig. 4

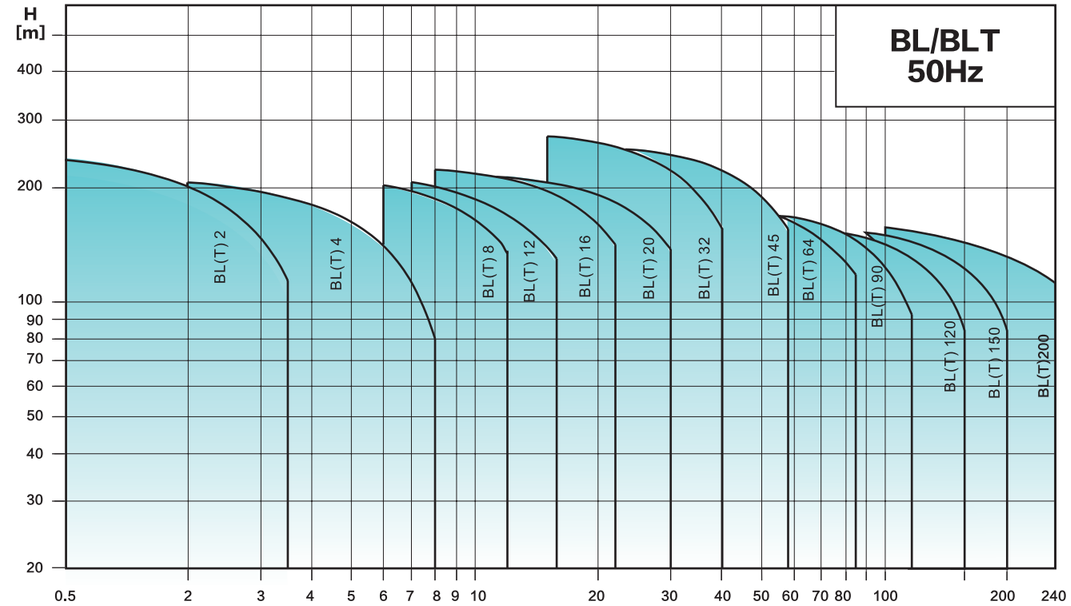
The limits of pressure and temperature are shown in the following fig.4,the pressure and temperature must be in the shown in the fig. 4.

Maximum Ambient Temperature

When the pump is operating in the place where ambient temperature is higher than 40℃ or altitude is higher than 1000m,the output power of motor P2 will decrease because of poor cooling caused by low air density.Therefore,in that case,the pump should be equipped with high-power motor.

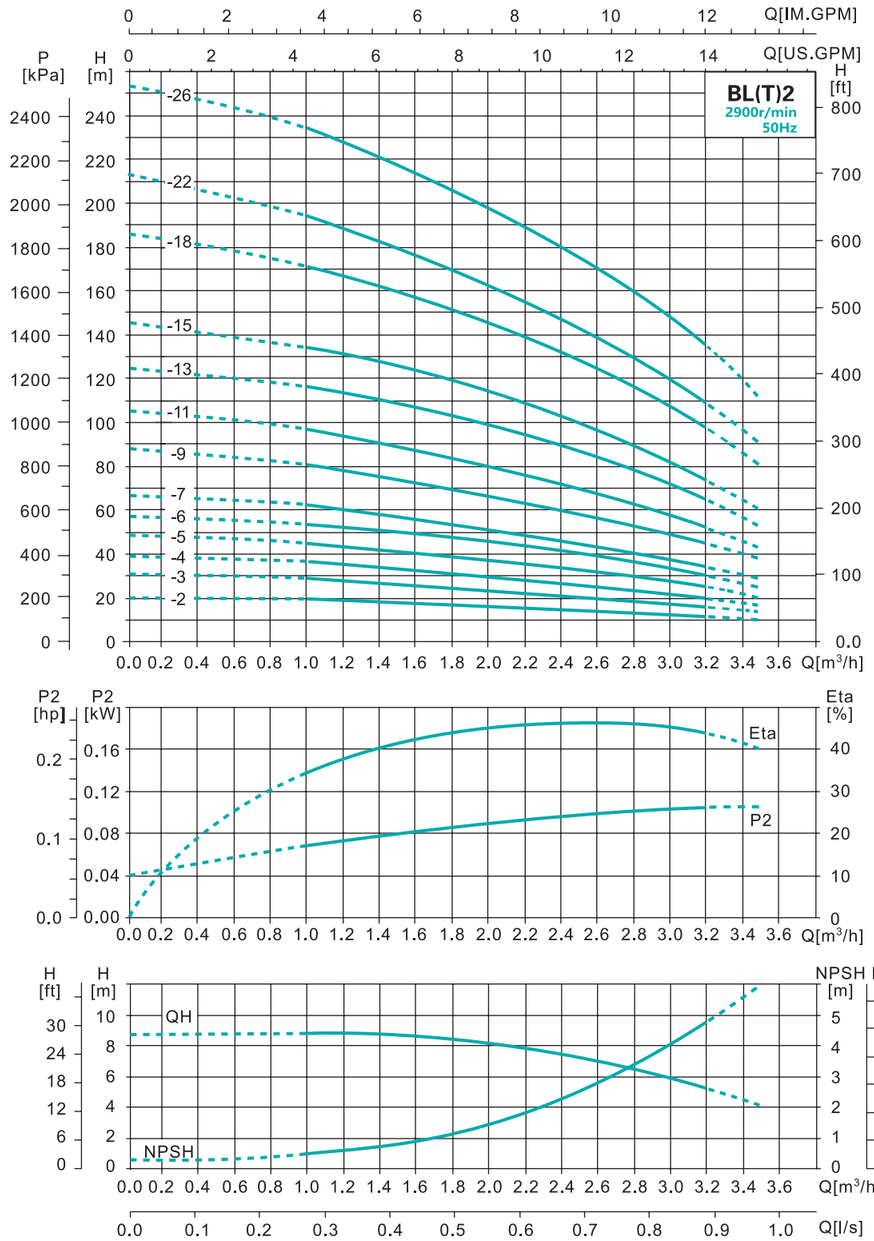


Performance Range



Model	BL(T)2	BL(T)4	BL(T)8	BL(T)12	BL(T)16	BL(T)20	BL(T)32	BL(T)45	BL(T)64	BL(T)90	BL(T)120	BL(T)150	BL(T)200
Rated Flow (m³/h)	2	4	8	12	16	20	32	45	64	90	120	150	200
Flow Range (m³/h)	1~3.5	1.5~7	5~11	7~16	8~20	14~28	16~40	25~55	30~80	50~110	60~150	80~180	100~240
Max.Pressure (bar)	23	21	21	22	22	23	27	28	22	16	17	16	16
Motor Power (kW)	0.37~3	0.37~4	0.75~7.5	1.5~11	2.2~15	2.2~18.5	3~30	5.5~45	7.5~45	11~45	11~75	11~75	18.5-110
Max.Efficiency (%)	45	57	62	63	66	67	70	74	75	76	75	76	79
DIN Flange	DN25	DN32	DN40	DN50	DN50	DN50	DN65	DN80	DN100	DN100	DN125	DN125	DN150
Pipe Thread	$R_2$1¼	R ₂ 1¼	Rc2,on request										
Oval flange	G1orG11/4												
Tamperature Range	Standard Type0~+68℃ Hot Water Type 0~+120℃												

Performance Curve - BL(T)2



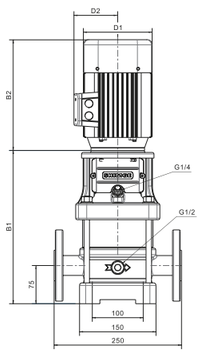
It is recommended to be used within lift range.

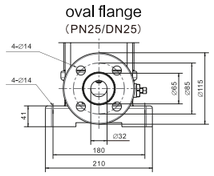
Performance Table

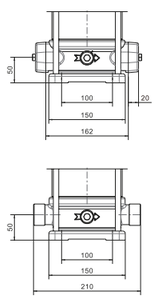
Model	Power		Caliber	Q (m³/h)	1	1.2	1.6	2	2.4	2.8	3.2	Head Range (m)
	kW	HP										
BL(T)2-2	0.37	0.5	DN25	H(m)	18	17	16	15	13	12	10	10~18
BL(T)2-3	0.37	0.5			27	26	24	22	20	18	15	15~27
BL(T)2-4	0.55	0.75			36	35	33	30	26	24	20	20~36
BL(T)2-5	0.55	0.75			45	43	40	37	33	30	24	24~45
BL(T)2-6	0.75	1			53	52	50	45	40	36	30	30~53
BL(T)2-7	0.75	1			63	61	57	52	47	41	35	35~63
BL(T)2-9	1.1	1.5			80	78	73	67	61	54	45	45~80
BL(T)2-11	1.1	1.5			98	95	89	82	73	64	54	54~98
BL(T)2-13	1.5	2			116	114	106	98	89	78	65	65~116
BL(T)2-15	1.5	2			134	130	123	112	100	90	73	73~134
BL(T)2-18	2.2	3			161	157	148	136	121	108	91	91~161
BL(T)2-22	2.2	3			197	192	180	165	148	130	110	110~197
BL(T)2-26	3	4			232	228	214	198	179	158	130	130~232

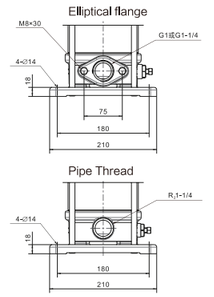
Dimensions

Model	Dim.(mm)					N.W.(kg)(BL/BLT)
	B1(BL/BLT)	B2	B1+B2(BL/BLT)	D1	D2	
BL(T)2-2	274/277	228	502/505	140	103	21/26
BL(T)2-3	274/277	228	502/505	140	103	21/26
BL(T)2-4	292/295	228	520/523	140	103	23/28
BL(T)2-5	310/313	228	538/541	140	103	23/28
BL(T)2-6	338/341	235	573/576	161	112	27/31
BL(T)2-7	356/359	235	591/594	161	112	27/32
BL(T)2-9	392/395	235	627/630	161	112	30/34
BL(T)2-11	428/431	235	663/666	161	112	31/35
BL(T)2-13	474/477	280	754/757	168	114	34/39
BL(T)2-15	510/513	280	790/793	168	114	35/40
BL(T)2-18	564/567	280	844/847	168	114	39/44
BL(T)2-22	636/639	280	916/919	168	114	41/46
BL(T)2-26	718/721	307	1025/1028	194	132	49/54

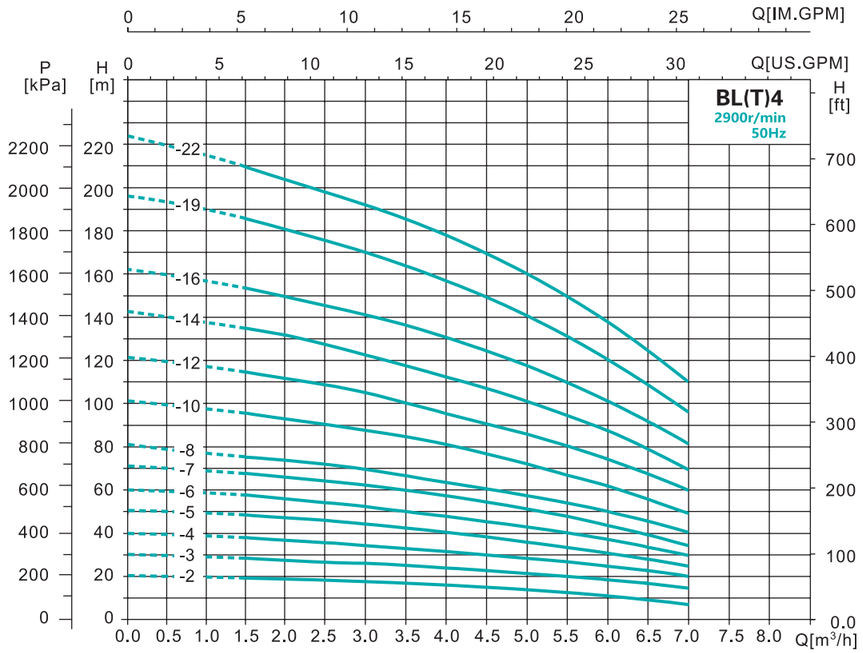


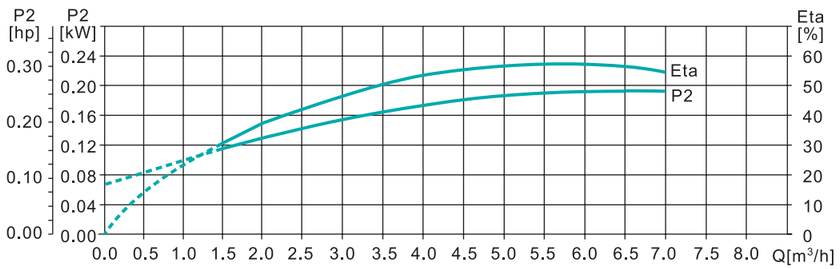


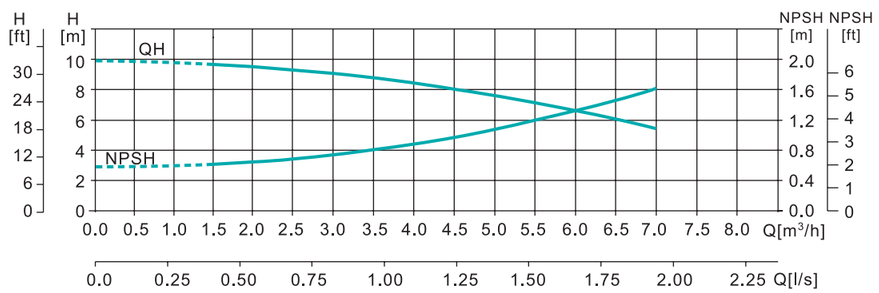




Performance Curve - BL(T) 4







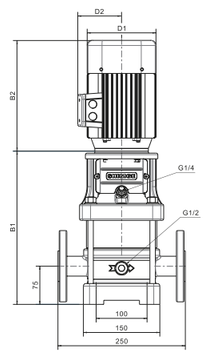
It is recommended to be used within lift range.

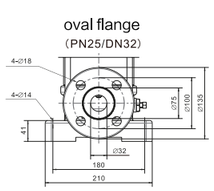
Performance Table

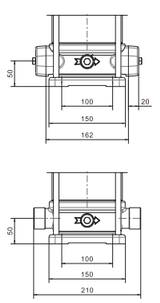
Model	Power		Caliber	Q (m³/h)	1.5	2	3	4	5	6	7	Head Range (m)
	kW	HP										
BL(T)4-2	0.37	0.5	DN32	H(m)	19	18	17	15	13	10	8	8~19
BL(T)4-3	0.55	0.75			28	27	26	24	20	18	13	13~28
BL(T)4-4	0.75	1			38	36	34	32	27	24	19	19~38
BL(T)4-5	1.1	1.5			47	45	43	40	34	31	23	23~47
BL(T)4-6	1.1	1.5			56	54	52	48	41	37	28	28~56
BL(T)4-7	1.5	2			66	63	61	56	48	43	33	33~66
BL(T)4-8	1.5	2			74	72	70	64	55	50	38	38~74
BL(T)4-10	2.2	3			96	90	87	81	71	62	48	48~96
BL(T)4-12	2.2	3			114	108	104	95	85	75	58	58~114
BL(T)4-14	3	4			136	126	122	112	101	89	68	68~136
BL(T)4-16	3	4			152	144	140	129	115	101	78	78~152
BL(T)4-19	4	5.5			183	171	168	153	137	122	93	93~183
BL(T)4-22	4	5.5			211	200	192	178	160	138	108	108~211

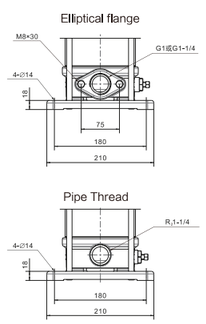
Dimensions

Model	Dim.(mm)					N.W.(kg)(BL/BLT)
	B1(BL/BLT)	B2	B1+B2(BL/BLT)	D1	D2	
BL(T)4-2	274/277	228	502/505	140	103	21/26
BL(T)4-3	301/304	228	529/532	140	103	23/28
BL(T)4-4	338/341	235	573/576	161	112	27/32
BL(T)4-5	365/368	235	600/603	161	112	29/34
BL(T)4-6	392/395	235	627/630	161	112	29/34
BL(T)4-7	429/432	280	709/712	168	114	33/38
BL(T)4-8	456/459	280	736/739	168	114	33/39
BL(T)4-10	510/513	280	790/793	168	114	37/42
BL(T)4-12	564/567	280	844/847	168	114	38/44
BL(T)4-14	628/631	307	935/938	194	132	46/51
BL(T)4-16	682/685	307	989/992	194	132	47/52
BL(T)4-19	763/766	355	1118/1121	215	138	56/61
BL(T)4-22	844/847	355	1199/1202	215	138	58/62

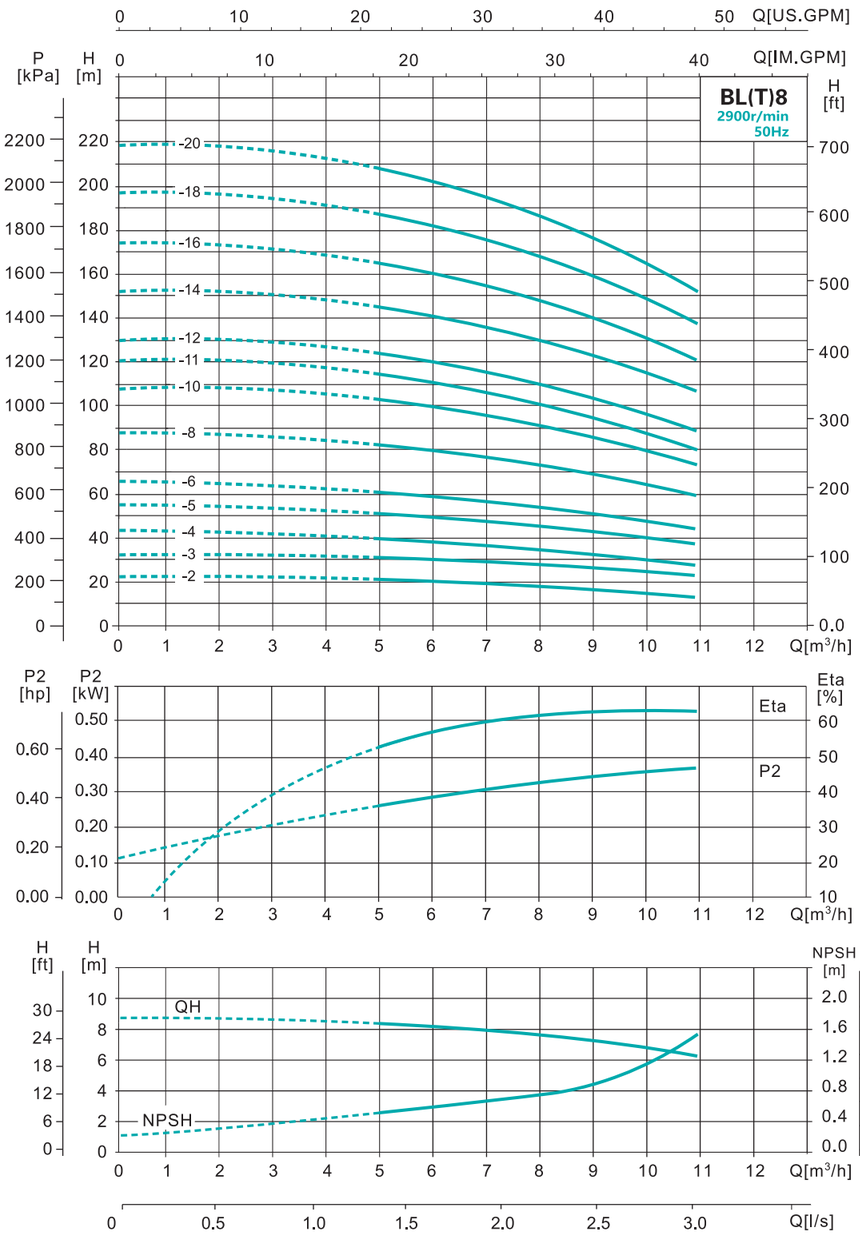








Performance Curve - BL(T) 8



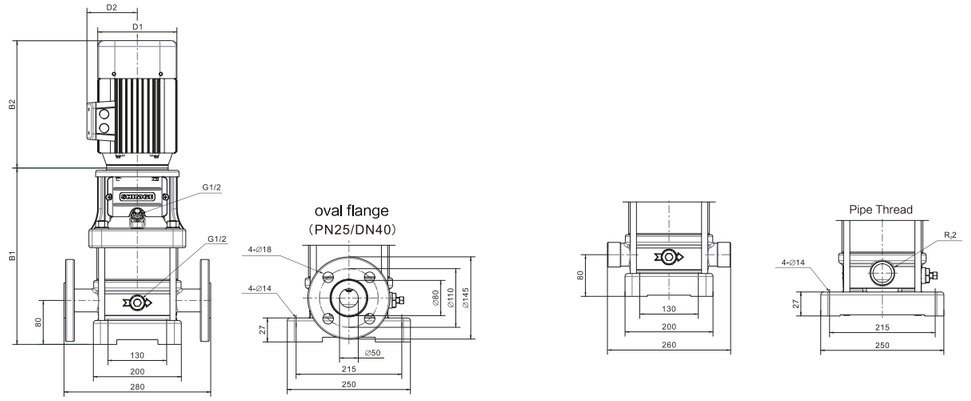
It is recommended to be used within lift range.

Performance Table

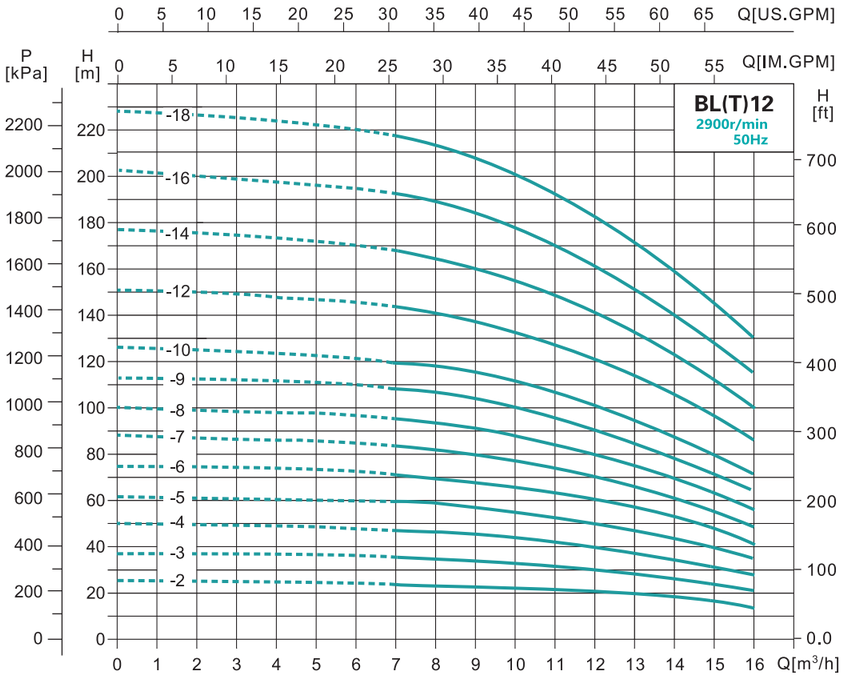
Model	Power		Caliber	Q (m³/h)	5	6	7	8	9	10	11	Head Range (m)
	kW	HP										
BL(T)8-2	0.75	1	DN40	H(m)	20	19.5	19	18	17	16	14	14~20
BL(T)8-3	1.1	1.5			30	29.5	28.5	27	25	24	21	21~30
BL(T)8-4	1.5	2			41	39.5	38	36	34	32	28	28~41
BL(T)8-5	2.2	3			52	50	48	45	42	40	36	36~52
BL(T)8-6	2.2	3			62	60	57	54	51	48	43	43~62
BL(T)8-8	3	4			83	80	77	73	69	65	58	58~83
BL(T)8-10	4	5.5			104	100	97	92	87	81	73	73~104
BL(T)8-11	4	5.5			114	110	106	101	95	86	80	80~114
BL(T)8-12	4	5.5			124	120	116	111	104	92	87	87~124
BL(T)8-14	5.5	7.5			145	141	136	130	122	113	102	102~145
BL(T)8-16	5.5	7.5			166	161	156	148	139	130	118	118~166
BL(T)8-18	7.5	10			187	182	175	167	157	146	134	134~187
BL(T)8-20	7.5	10			208	202	195	186	175	163	150	150~208

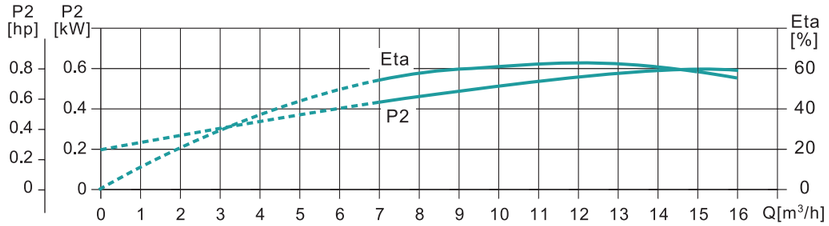
Dimensions

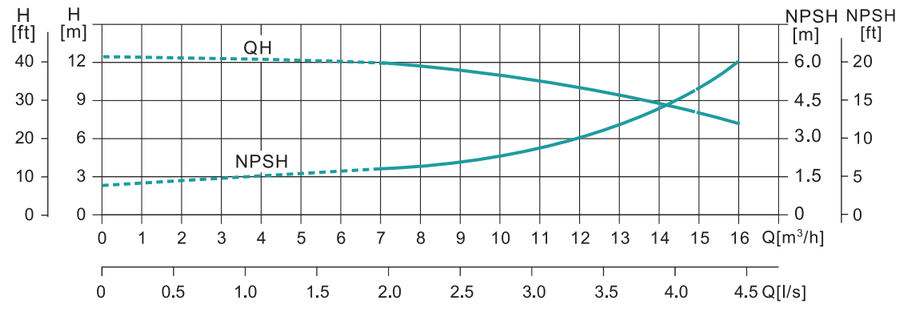
Model	Dim.(mm)					N.W.(kg)(BL/BLT)
	B1(BL/BLT)	B2	B1+B2(BL/BLT)	D1	D2	
BL(T)8-2	362/374	235	597/609	161	112	36/43
BL(T)8-3	394/406	235	629/641	161	112	39/45
BL(T)8-4	431/443	280	711/723	168	114	42/49
BL(T)8-5	463/475	280	743/755	168	114	46/53
BL(T)8-6	495/507	280	775/787	168	114	47/54
BL(T)8-8	569/581	307	876/888	194	132	56/62
BL(T)8-10	633/645	355	988/1000	215	138	65/71
BL(T)8-11	665/677	355	1020/1032	215	138	66/72
BL(T)8-12	697/709	355	1052/1064	215	138	68/74
BL(T)8-14	785/797	430	1215/1227	260	160	86/93
BL(T)8-16	849/861	430	1279/1291	260	160	89/95
BL(T)8-18	913/925	430	1343/1355	260	160	95/101
BL(T)8-20	977/989	430	1407/1419	260	160	97/103



Performance Curve - BL(T) 12







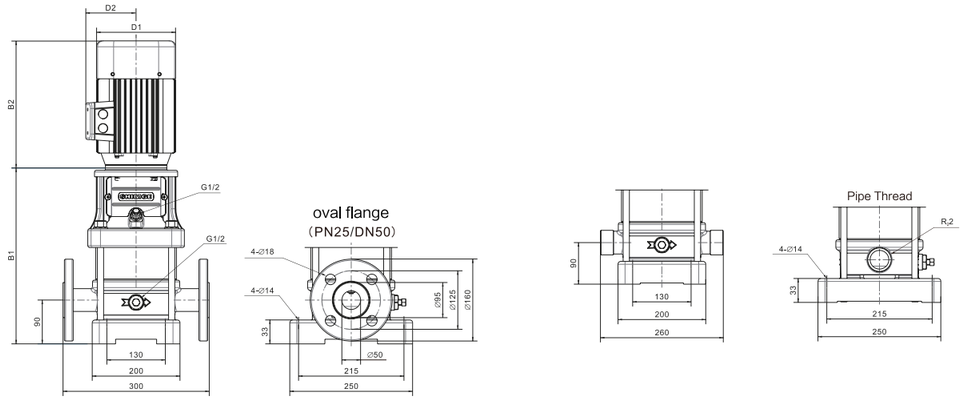
It is recommended to be used within lift range.

Performance Table

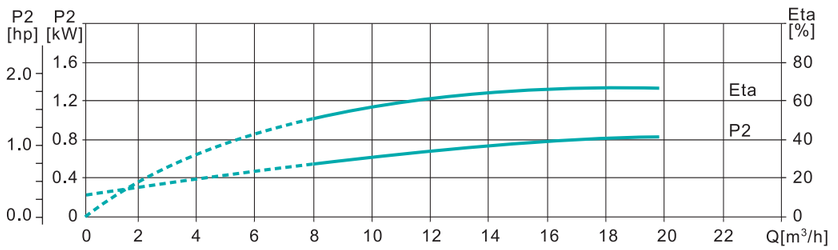
Model	Power		Caliber	Q (m³/h)	7	8	10	12	14	15	16	Head Range (m)
	kW	HP										
BL(T)12-2	1.5	2	DN50	H(m)	23.5	23	22	20	17	15	14	14~23.5
BL(T)12-3	2.2	3			35.5	35	33	30	26	23	21	21~35.5
BL(T)12-4	3	4			47	46	44	40	34	31	28	28~47
BL(T)12-5	3	4			59.5	58	55	50	43	39	35	35~59.5
BL(T)12-6	4	5.5			71.5	70	66	60	52	47	42	42~71.5
BL(T)12-7	5.5	7.5			83.5	82	77	70	61	55	49	49~83.5
BL(T)12-8	5.5	7.5			95.5	94	88	80	70	63	56	56~95.5
BL(T)12-9	5.5	7.5			108	106	100	91	79	71	64	64~108
BL(T)12-10	7.5	10			120	118	111	101	88	80	72	72~120
BL(T)12-12	7.5	10			143.5	141	133	121	106	96	86	86~143.5
BL(T)12-14	11	15			168	165	155	141	124	112	100	100~168
BL(T)12-16	11	15			192.5	189	178	162	142	128	115	115~192.5
BL(T)12-18	11	15			217	213	202	183	160	145	130	130~217

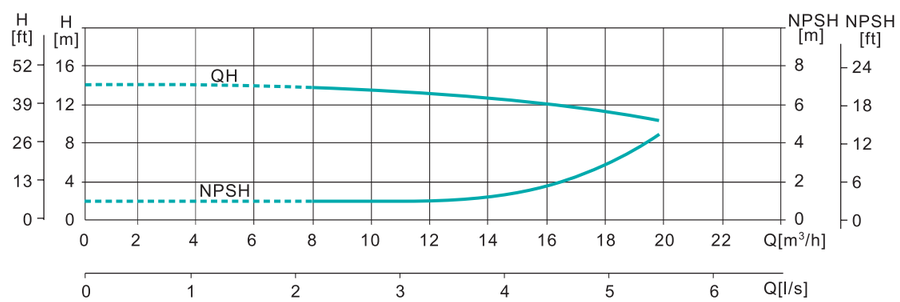
Dimensions

Model	Dim.(mm)					N.W.(kg)(BL/BLT)
	B1(BL/BLT)	B2	B1+B2(BL/BLT)	D1	D2	
BL(T)12-2	377/389	280	657/669	168	114	41/48
BL(T)12-3	409/421	280	689/701	168	114	44/51
BL(T)12-4	451/463	307	758/770	194	132	52/59
BL(T)12-5	483/495	307	790/802	194	132	53/60
BL(T)12-6	515/527	355	870/882	215	138	61/69
BL(T)12-7	571/583	430	1001/1013	260	160	79/87
BL(T)12-8	603/615	430	1033/1045	260	160	80/88
BL(T)12-9	635/647	430	1065/1077	260	160	81/89
BL(T)12-10	667/679	430	1097/1109	260	160	86/94
BL(T)12-12	731/743	430	1161/1173	260	160	88/96
BL(T)12-14	826/838	498	1324/1336	314	268	163/171
BL(T)12-16	890/902	498	1388/1400	314	268	165/173
BL(T)12-18	954/966	498	1452/1464	314	268	167/175



Performance Curve - BL(T) 16





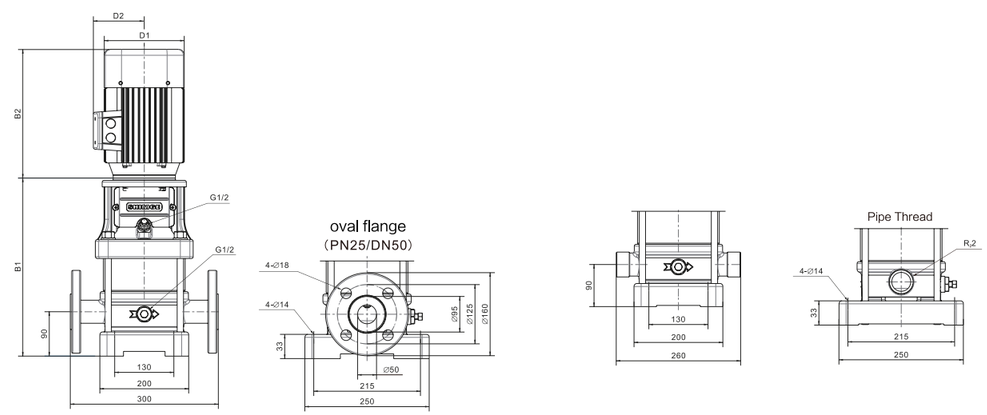
It is recommended to be used within lift range.

Performance Table

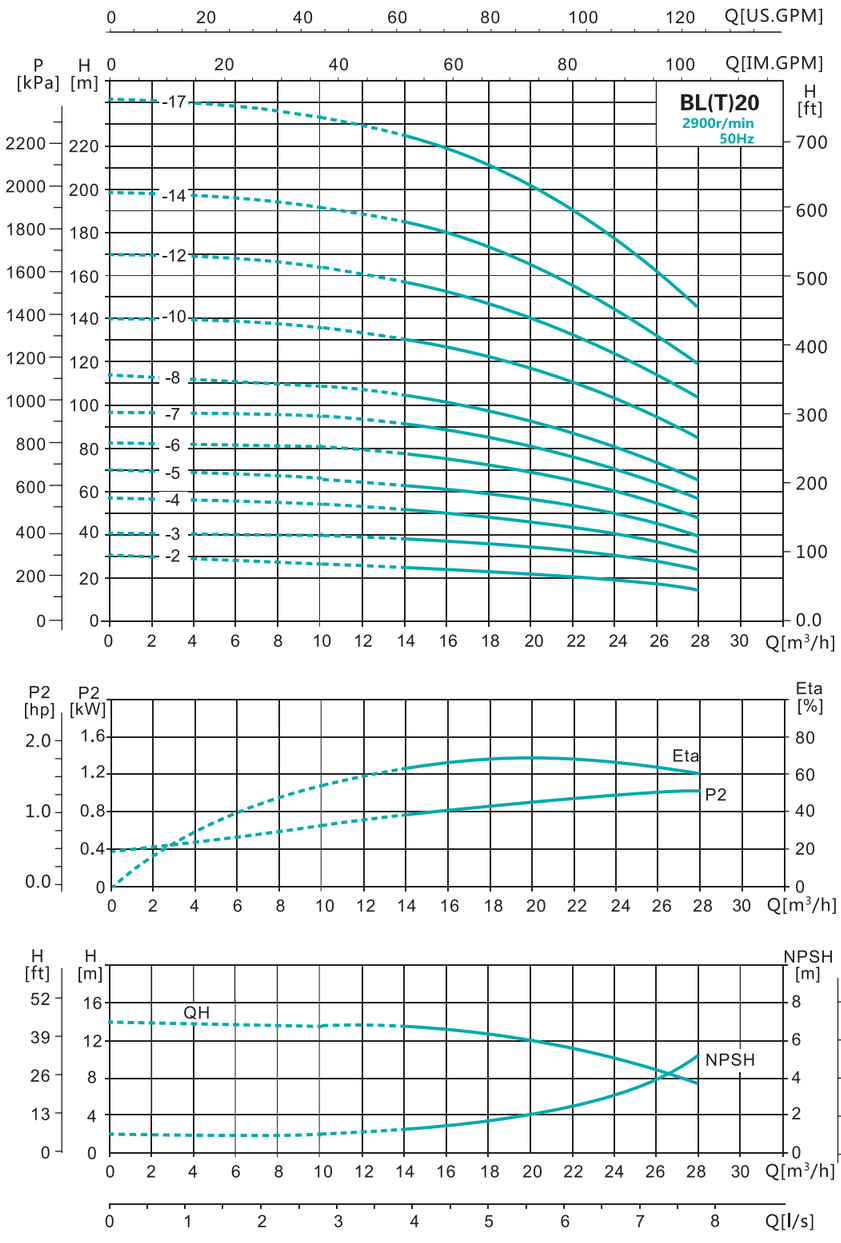
Model	Power		Caliber	Q (m³/h)	8	10	12	14	16	18	20	Head Range (m)
	kW	HP										
BL(T)16-2	2.2	3	DN50	H(m)	27	26	25	24	22	21	19	19~27
BL(T)16-3	3	4			41	40	38	37	34	32	29	29~41
BL(T)16-4	4	5.5			54	53	52	49	46	43	38	38~54
BL(T)16-5	5.5	7.5			68	67	65	62	58	54	48	48~68
BL(T)16-6	5.5	7.5			82	80	78	74	70	64	58	58~82
BL(T)16-7	7.5	10			96	95	91	87	82	76	68	68~96
BL(T)16-8	7.5	10			110	108	104	99	94	86	77	77~110
BL(T)16-10	11	15			138	136	131	125	118	109	97	97~138
BL(T)16-12	11	15			166	162	157	150	141	130	116	116~166
BL(T)16-14	15	20			194	190	184	175	166	152	136	136~194
BL(T)16-16	15	20			222	217	210	200	189	174	156	156~222

Dimensions

Model	Dim.(mm)					N.W.(kg)(BL/BLT)
	B1(BL/BLT)	B2	B1+B2(BL/BLT)	D1	D2	
BL(T)16-2	403/415	280	683/695	168	114	44/51
BL(T)16-3	458/470	307	765/777	194	132	52/59
BL(T)16-4	503/515	355	858/870	215	138	60/68
BL(T)16-5	572/584	430	1002/1014	260	160	79/86
BL(T)16-6	617/629	430	1047/1059	260	160	80/88
BL(T)16-7	662/674	430	1092/1104	260	160	84/93
BL(T)16-8	707/719	430	1137/1149	260	160	85/95
BL(T)16-10	828/840	498	1326/1338	314	268	163/171
BL(T)16-12	918/930	498	1416/1428	314	268	167/173
BL(T)16-14	1008/1020	498	1506/1518	314	268	181/186
BL(T)16-16	1098/1110	498	1596/1608	314	268	183/189



Performance Curve - BL(T) 20



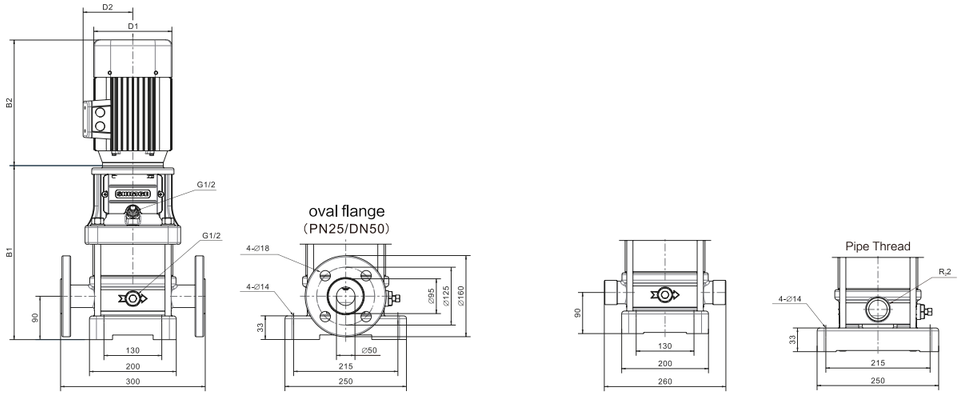
It is recommended to be used within lift range.

Performance Table

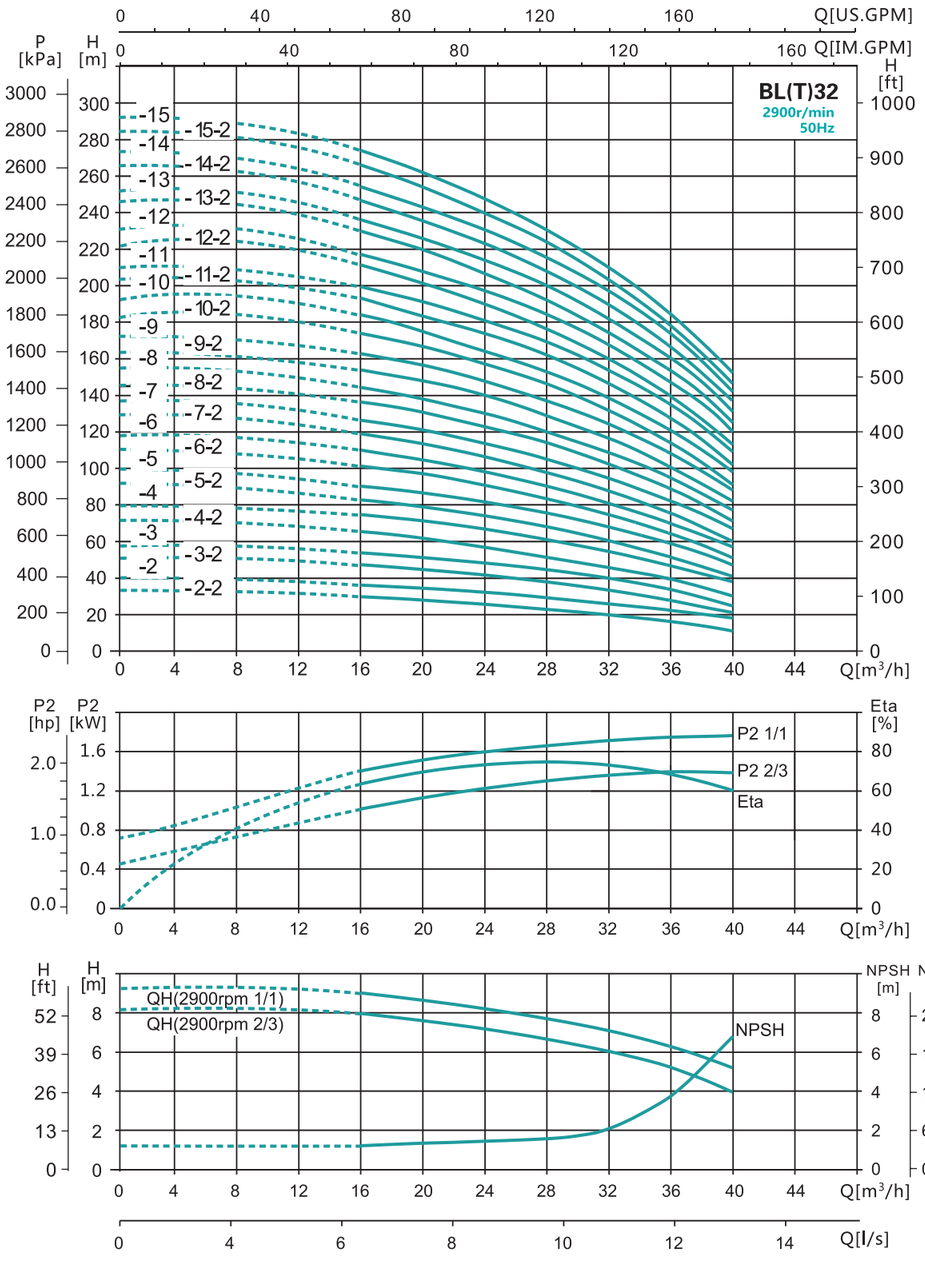
Model	Power		Caliber	Q (m³/h)	14	16	18	20	22	24	26	28	Head Range (m)
	kW	HP											
BL(T)20-2	2.2	3			26	25	24	23	22	20	18	15	15~26
BL(T)20-3	4	5.5			39	38	37	35	33	30	27	24	24~39
BL(T)20-4	5.5	7.5			52	51	49	47	44	41	37	33	33~52
BL(T)20-5	5.5	7.5			64	62	60	58	55	50	45	40	40~64
BL(T)20-6	7.5	10			77	75	73	70	66	61	55	49	49~77
BL(T)20-7	7.5	10	DN50	H(m)	91	89	86	82	77	71	65	58	58~91
BL(T)20-8	11	15			105	102	99	94	89	82	75	67	67~105
BL(T)20-10	11	15			131	128	124	118	111	103	95	85	85~131
BL(T)20-12	15	20			158	154	149	142	133	124	114	102	102~158
BL(T)20-14	15	20			185	180	174	166	156	145	133	119	119~185
BL(T)20-17	18.5	25			225	219	212	202	190	177	162	145	145~225

Dimensions

Model	Dim.(mm)					N.W.(kg)(BL/BLT)
	B1(BL/BLT)	B2	B1+B2(BL/BLT)	D1	D2	
BL(T)20-2	403/415	280	683/695	168	114	44/51
BL(T)20-3	458/470	355	813/825	215	138	59/66
BL(T)20-4	527/539	430	957/969	260	160	77/85
BL(T)20-5	572/584	430	1002/1014	260	160	79/87
BL(T)20-6	617/629	430	1047/1059	260	160	82/92
BL(T)20-7	662/674	430	1092/1104	260	160	83/94
BL(T)20-8	738/750	498	1236/1248	314	268	160/168
BL(T)20-10	828/840	498	1326/1338	314	268	163/171
BL(T)20-12	918/930	498	1416/1428	314	268	177/184
BL(T)20-14	1008/1020	498	1506/1518	314	268	180/187
BL(T)20-17	1143/1155	542	1685/1697	314	268	200/208



Performance Curve - BL(T) 32

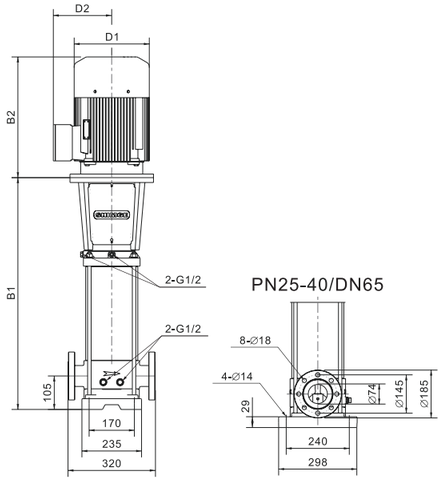


It is recommended to be used within lift range.

Performance Table

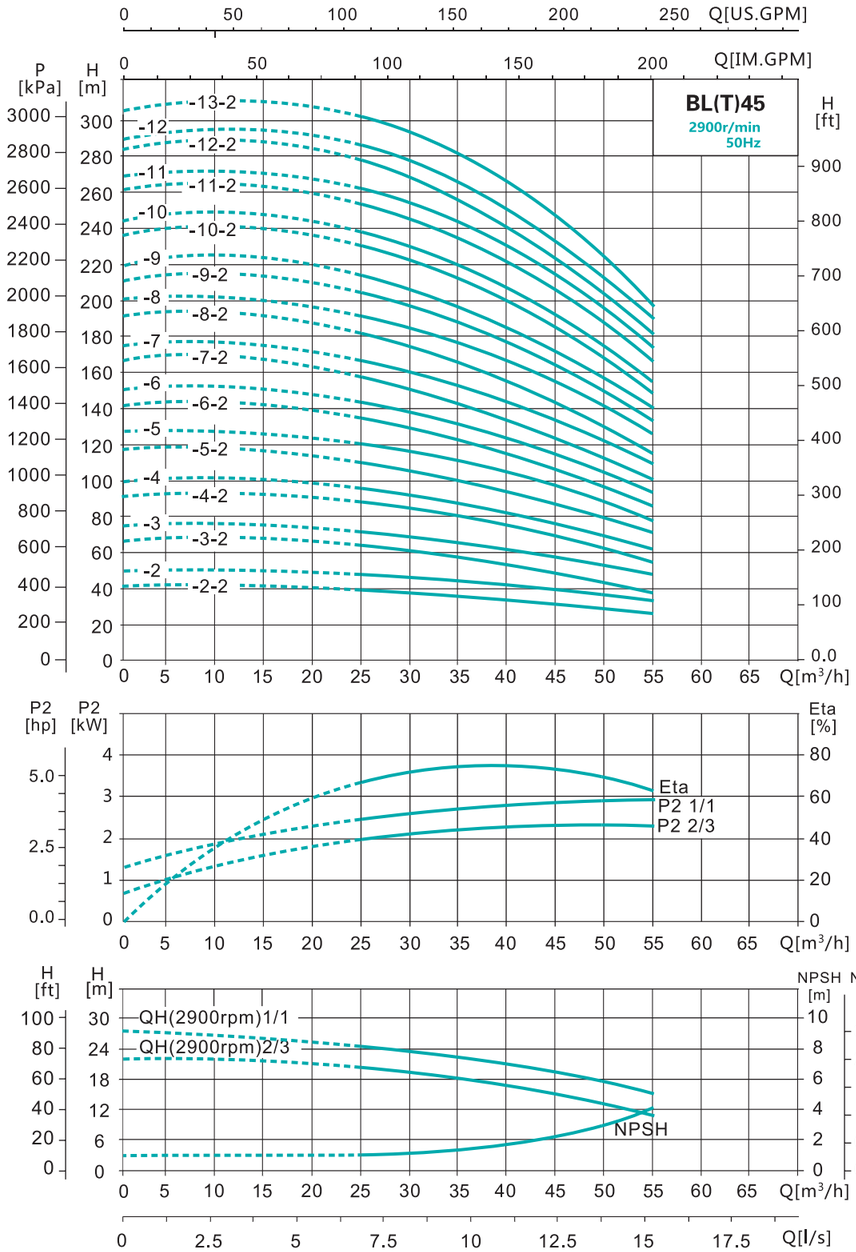
Model	Power kW	Power HP	Caliber	Q (m³/h)	14	20	24	28	32	24	40	Head Range (m)
BL(T)32-2-2	3	4	DN65	H(m)	29	28	26	23	20	16	11	11~29
BL(T)32-2	4	5.5			36	34	32	29	27	23	18	18~36
BL(T)32-3-2	5.5	7.5			47	44	41	38	33	28	21	21~47
BL(T)32-3	5.5	7.5			54	51	48	44	40	35	27	27~54
BL(T)32-4-2	7.5	10			65	62	58	53	46	40	30	30~65
BL(T)32-4	7.5	10			72	69	65	59	53	47	37	37~72
BL(T)32-5-2	11	15			83	79	74	68	60	52	41	41~83
BL(T)32-5	11	15			90	86	81	74	67	59	47	47~90
BL(T)32-6-2	11	15			101	97	90	83	74	65	51	51~101
BL(T)32-6	11	15			108	104	97	90	81	72	57	57~108
BL(T)32-7-2	15	20			119	114	107	98	88	78	60	60~119
BL(T)32-7	15	20			126	121	113	105	95	85	67	67~126
BL(T)32-8-2	15	20			136	131	123	114	102	90	71	71~136
BL(T)32-8	15	20			144	138	130	120	109	97	77	77~144
BL(T)32-9-2	18.5	25			154	148	140	129	117	102	82	82~154
BL(T)32-9	18.5	25			162	156	147	136	124	109	88	88~162
BL(T)32-10-2	18.5	25			175	166	157	146	131	115	91	91~175
BL(T)32-10	18.5	25			182	173	164	152	138	122	98	98~182
BL(T)32-11-2	22	30			193	184	173	164	146	128	102	102~193
BL(T)32-11	22	30			200	191	180	168	153	135	109	109~200
BL(T)32-12-2	22	30			211	201	189	178	160	140	113	113~211
BL(T)32-12	22	30			218	208	196	184	167	147	120	120~218
BL(T)32-13-2	30	40			230	218	206	193	174	153	124	124~230
BL(T)32-13	30	40			237	225	213	200	181	160	131	131~237
BL(T)32-14-2	30	40			247	235	222	210	189	165	135	135~247
BL(T)32-14	30	40			255	242	229	216	196	172	142	142~255
BL(T)32-15-2	30	40			266	253	239	224	203	178	145	145~266
BL(T)32-15	30	40			274	260	246	231	210	185	152	152~274

Dimensions



Model	Dim.(mm) B1(BL/BLT)	B2	B1+B2(BL/BLT)	D1	D2	N.W.(kg) (BL/BLT)
BL(T)32-2-2	632	307	939	194	132	72/77
BL(T)32-2	632	355	987	215	138	80/84
BL(T)32-3-2	722	430	1152	260	160	98/103
BL(T)32-3	722	430	1152	260	160	98/103
BL(T)32-4-2	792	430	1222	260	160	103/108
BL(T)32-4	792	430	1222	260	160	103/108
BL(T)32-5-2	892	498	1390	314	268	181/187
BL(T)32-5	892	498	1390	314	268	181/187
BL(T)32-6-2	962	498	1460	314	268	185/190
BL(T)32-6	962	498	1460	314	268	185/190
BL(T)32-7-2	1032	498	1530	314	268	198/203
BL(T)32-7	1032	498	1530	314	268	198/203
BL(T)32-8-2	1102	498	1600	314	268	201/207
BL(T)32-8	1102	498	1600	314	268	201/207
BL(T)32-9-2	1172	542	1714	314	268	221/227
BL(T)32-9	1172	542	1714	314	268	221/227
BL(T)32-10-2	1242	542	1784	314	268	224/230
BL(T)32-10	1242	542	1784	314	268	224/230
BL(T)32-11-2	1312	578	1890	355	268	269/275
BL(T)32-11	1312	578	1890	355	268	269/275
BL(T)32-12-2	1382	578	1960	355	268	272/278
BL(T)32-12	1382	578	1960	355	268	272/278
BL(T)32-13-2	1452	650	2102	397	307	350/357
BL(T)32-13	1452	650	2102	397	307	350/357
BL(T)32-14-2	1522	650	2172	397	307	353/360
BL(T)32-14	1522	650	2172	397	307	353/360
BL(T)32-15-2	1592	650	2242	397	307	356/363
BL(T)32-15	1592	650	2242	397	307	356/363

Performance Curve - BL(T) 45

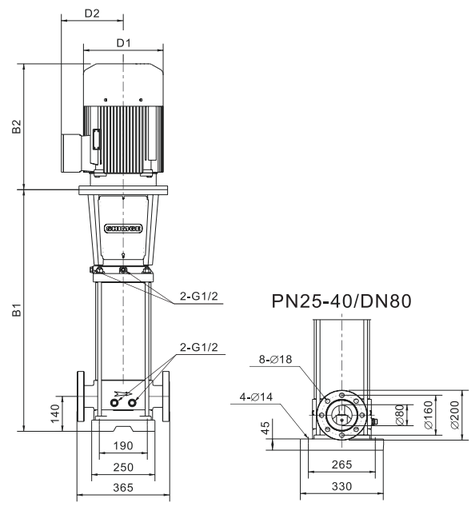


It is recommended to be used within lift range.

Performance Table

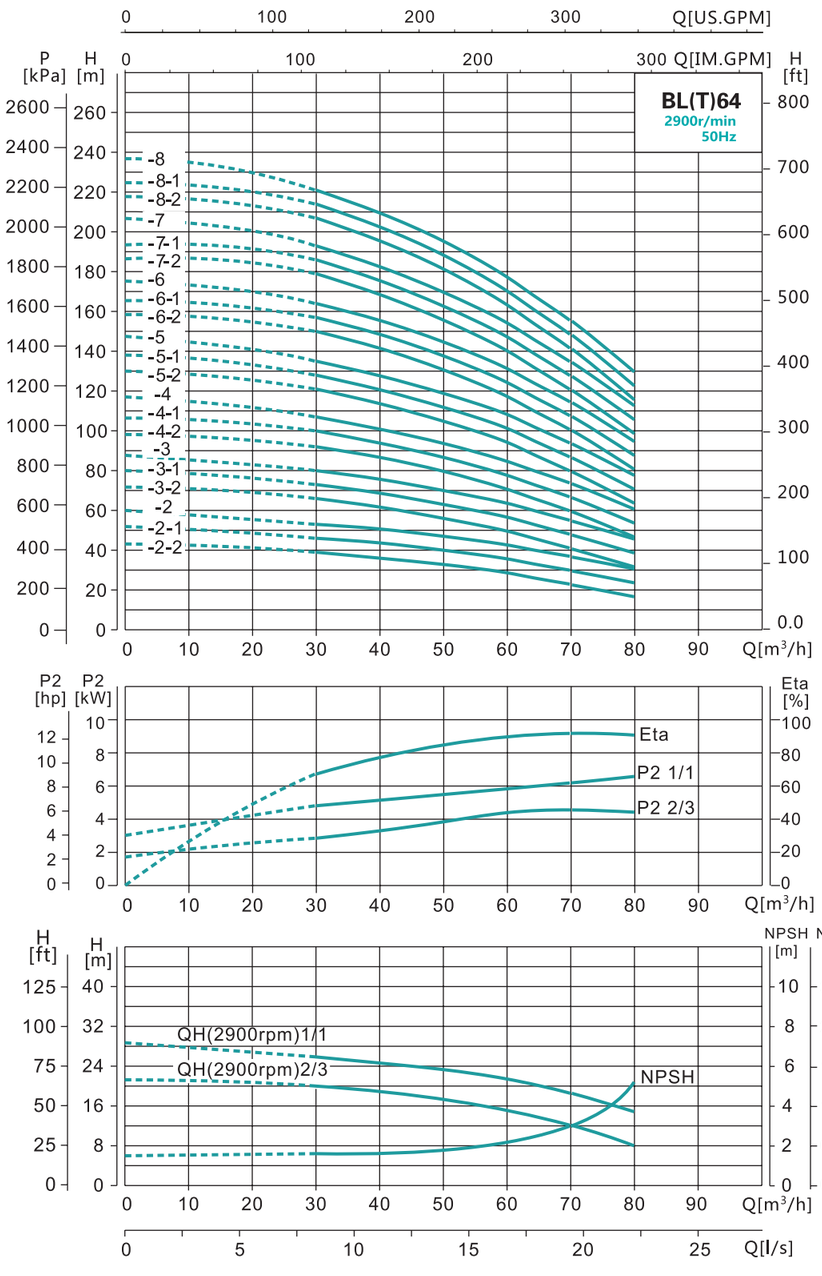
Model	Power		Caliber	Q (m³/h)	25	30	35	40	45	50	55	Head Range (m)
	kW	HP										
BL(T)45-2-2	5.5	7.5			40	38	36	33	30	27	23	23~40
BL(T)45-2	7.5	10			48	46	44	42	39	35	31	31~48
BL(T)45-3-2	11	15			63	61	58	54	50	44	38	38~63
BL(T)45-3	11	15			71	69	66	63	58	53	47	47~71
BL(T)45-4-2	15	20			87	84	80	75	69	62	54	54~87
BL(T)45-4	15	20			95	92	88	84	78	71	62	62~95
BL(T)45-5-2	18.5	25			111	107	102	96	88	80	69	69~111
BL(T)45-5	18.5	25			119	115	110	105	97	88	78	78~119
BL(T)45-6-2	22	30			135	130	124	117	108	97	85	85~135
BL(T)45-6	22	30			143	138	132	125	116	106	93	93~143
BL(T)45-7-2	30	40			158	152	146	138	127	115	100	100~158
BL(T)45-7	30	40	DN80	H(m)	166	161	154	146	135	124	109	109~166
BL(T)45-8-2	30	40			182	175	168	159	146	133	116	116~182
BL(T)45-8	30	40			190	184	176	167	154	141	124	124~190
BL(T)45-9-2	30	40			205	198	190	180	166	150	132	132~205
BL(T)45-9	37	50			214	207	198	188	174	159	140	140~214
BL(T)45-10-2	37	50			230	221	212	200	185	168	147	147~230
BL(T)45-10	37	50			238	230	220	209	193	177	155	155~238
BL(T)45-11-2	45	60			255	246	236	223	206	188	165	165~255
BL(T)45-11	45	60			263	255	244	232	214	196	173	173~263
BL(T)45-12-2	45	60			280	270	259	245	226	206	181	181~280
BL(T)45-12	45	60			289	280	268	255	236	216	190	190~289
BL(T)45-13-2	45	60			305	294	282	267	247	225	198	198~305

Dimensions



Model	Dim.(mm)					N.W.(kg) (BL/BLT)
	B1(BL/BLT)	B2	B1+B2(BL/BLT)	D1	D2	
BL(T)45-2-2	699/715	430	1129/1145	260	160	102/114
BL(T)45-2	699/715	430	1129/1145	260	160	106/118
BL(T)45-3-2	809/825	498	1307/1323	314	268	184/194
BL(T)45-3	809/825	498	1307/1323	314	268	184/194
BL(T)45-4-2	889/905	498	1387/1403	314	268	197/208
BL(T)45-4	889/905	498	1387/1403	314	268	197/208
BL(T)45-5-2	969/985	542	1511/1527	314	268	218/229
BL(T)45-5	969/985	542	1511/1527	314	268	218/229
BL(T)45-6-2	1049/1065	578	1627/1643	355	268	263/274
BL(T)45-6	1049/1065	578	1627/1643	355	268	263/274
BL(T)45-7-2	1129/1145	650	1779/1795	397	307	342/353
BL(T)45-7	1129/1145	650	1779/1795	397	307	342/353
BL(T)45-8-2	1209/1225	650	1859/1875	397	307	347/356
BL(T)45-8	1209/1225	650	1859/1875	397	307	347/356
BL(T)45-9-2	1289/1305	650	1939/1955	397	307	349/360
BL(T)45-9	1289/1305	650	1939/1955	397	307	371/382
BL(T)45-10-2	1369/1385	650	2019/2035	397	307	375/386
BL(T)45-10	1369/1385	650	2019/2035	397	307	375/386
BL(T)45-11-2	1449/1465	692	2141/2157	446	332	439/450
BL(T)45-11	1449/1465	692	2141/2157	446	332	439/450
BL(T)45-12-2	1529/1545	692	2221/2237	446	332	442/454
BL(T)45-12	1529/1545	692	2221/2237	446	332	442/454
BL(T)45-13-2	1609/1625	692	2301/2317	446	332	446/458

Performance Curve - BL(T)64

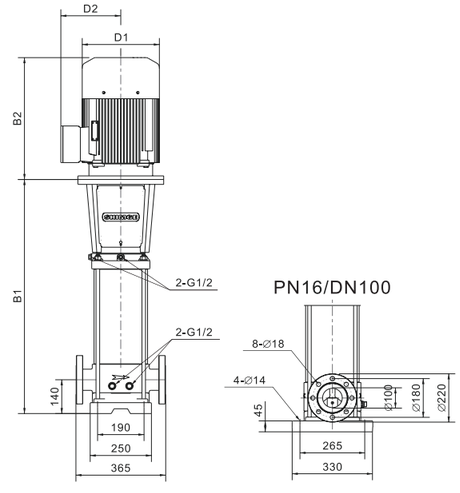


It is recommended to be used within lift range.

Performance Table

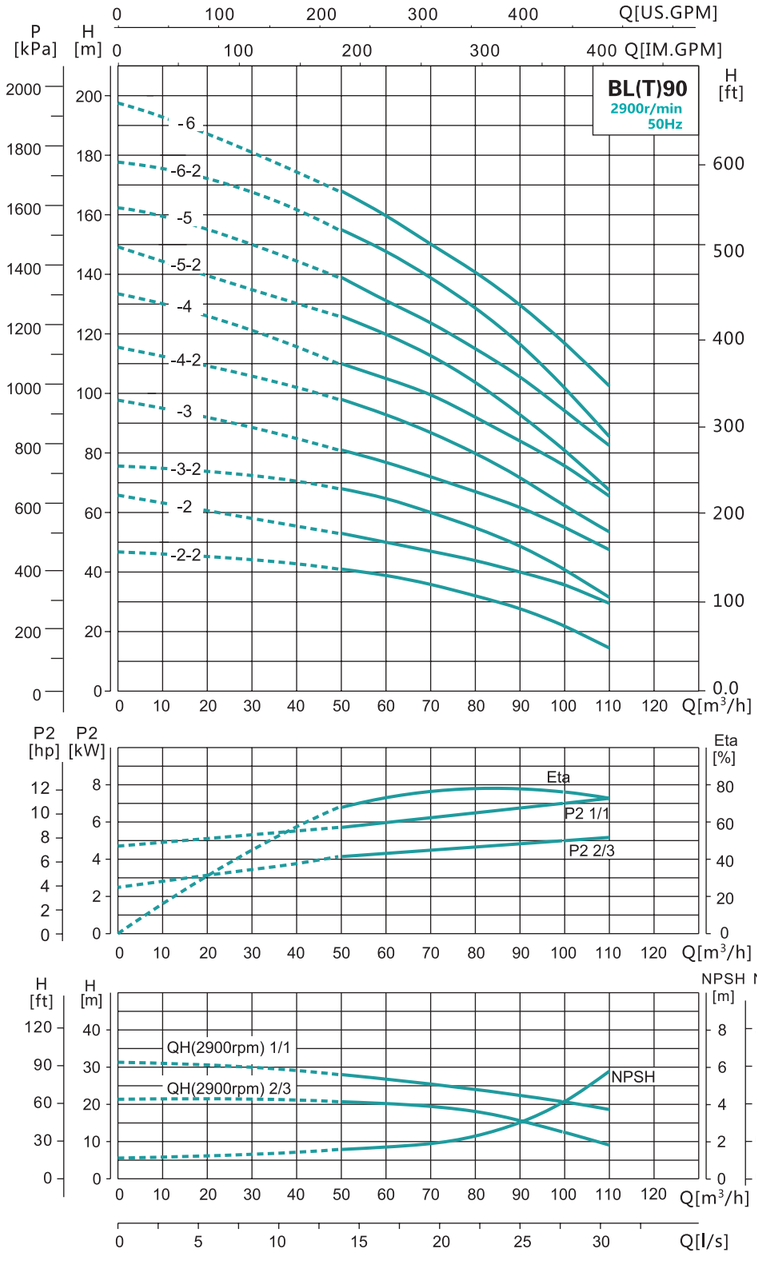
Model	Power		Caliber	Q (m³/h)	30	40	50	60	64	70	80	Head Range (m)
	kW	HP										
BL(T)64-2-2	7.5	10			39	36	33	29	26	23	17	17~39
BL(T)64-2-1	11	15			46	44	40	36	33	30	24	24~46
BL(T)64-2	11	15			53	51	47	43	40	37	31	31~53
BL(T)64-3-2	15	20			66	62	56	50	46	41	32	32~66
BL(T)64-3-1	15	20			73	69	63	57	53	48	39	39~73
BL(T)64-3	18.5	25			80	76	71	65	60	56	46	46~80
BL(T)64-4-2	18.5	25			92	87	80	71	66	60	47	47~92
BL(T)64-4-1	22	30			100	94	87	78	73	67	54	54~100
BL(T)64-4	22	30			107	101	94	85	80	74	61	61~107
BL(T)64-5-2	30	40			121	114	105	95	88	80	64	64~121
BL(T)64-5-1	30	40	DN100	H(m)	128	121	112	102	95	87	71	71~128
BL(T)64-5	30	40			136	129	119	109	102	94	78	78~136
BL(T)64-6-2	30	40			150	142	131	118	110	101	81	81~150
BL(T)64-6-1	37	50			157	149	138	125	117	108	88	88~157
BL(T)64-6	37	50			164	156	145	132	124	115	95	95~164
BL(T)64-7-2	37	50			179	169	156	141	132	121	99	99~179
BL(T)64-7-1	37	50			186	176	163	148	139	128	106	106~186
BL(T)64-7	45	60			193	183	170	155	146	135	112	112~193
BL(T)64-8-2	45	60			207	196	182	164	154	142	116	116~207
BL(T)64-8-1	45	60			214	203	189	171	161	149	123	123~214
BL(T)64-8	45	60			221	210	196	178	168	156	130	130~221

Dimensions



Model	Dim.(mm)					N.W.(kg) (BL/BLT)
	B1(BL/BLT)	B2	B1+B2(BL/BLT)	D1	D2	
BL(T)64-2-2	715	430	1145	260	160	126/129
BL(T)64-2-1	745	498	1243	314	268	189/192
BL(T)64-2	745	498	1243	314	268	189/192
BL(T)64-3-2	825	498	1323	314	268	202/205
BL(T)64-3-1	825	498	1323	314	268	202/205
BL(T)64-3	825	542	1367	314	268	219/222
BL(T)64-4-2	905	542	1447	314	268	223/227
BL(T)64-4-1	905	578	1483	355	268	265/268
BL(T)64-4	905	578	1483	355	268	265/268
BL(T)64-5-2	985	650	1635	397	307	345/348
BL(T)64-5-1	985	650	1635	397	307	345/348
BL(T)64-5	985	650	1635	397	307	345/348
BL(T)64-6-2	1065	650	1715	397	307	348/352
BL(T)64-6-1	1065	650	1715	397	307	370/374
BL(T)64-6	1065	650	1715	397	307	370/374
BL(T)64-7-2	1145	650	1795	397	307	376/379
BL(T)64-7-1	1145	650	1795	397	307	376/379
BL(T)64-7	1145	692	1837	446	332	435/438
BL(T)64-8-2	1225	692	1917	446	332	439/442
BL(T)64-8-1	1225	692	1917	446	332	439/442
BL(T)64-8	1225	692	1917	446	332	439/442

Performance Curve - BL(T)90

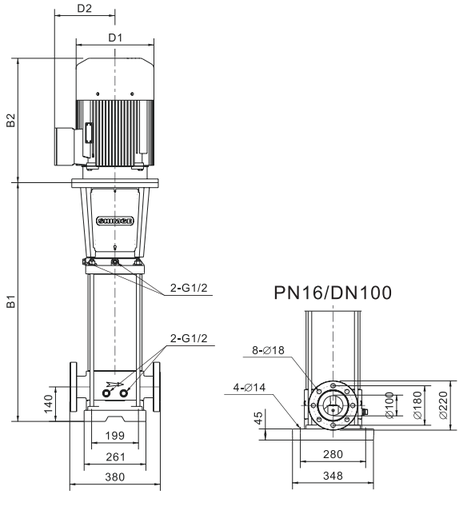


It is recommended to be used within lift range.

Performance Table

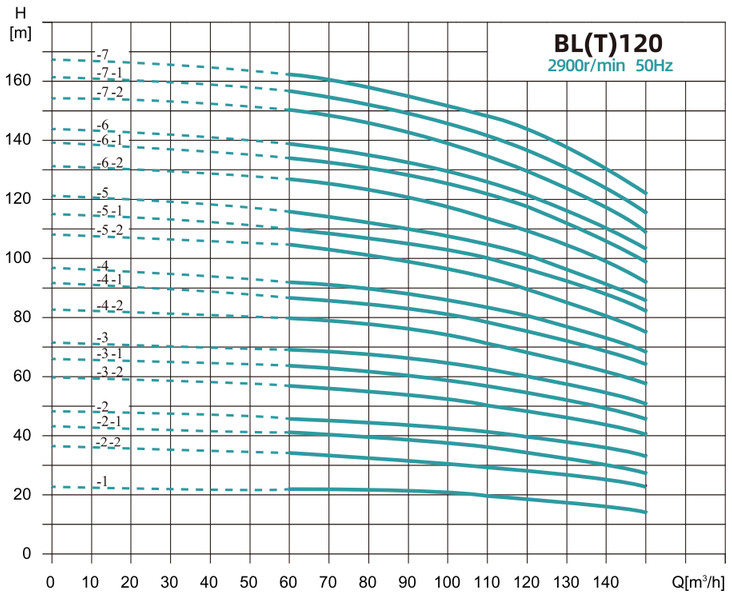
Model	Power		Caliber	Q (m³/h)	50	60	70	80	90	100	110	Head Range (m)
	kW	HP										
BL(T)90-2-2	11	15	DN100	H(m)	41	39	36	32	28	22	15	15~41
BL(T)90-2	15	20			53	50	47	44	40	36	30	30~53
BL(T)90-3-2	18.5	25			68	65	60	55	49	41	32	32~68
BL(T)90-3	22	30			81	77	72	67	62	55	48	48~81
BL(T)90-4-2	30	40			98	93	87	80	72	62	50	50~98
BL(T)90-4	30	40			110	105	100	92	84	76	66	66~110
BL(T)90-5-2	37	50			126	120	113	104	93	81	68	68~126
BL(T)90-5	37	50			139	131	124	115	106	94	83	83~139
BL(T)90-6-2	45	60			155	148	139	129	117	102	86	86~155
BL(T)90-6	45	60			168	160	150	141	130	117	103	103~168

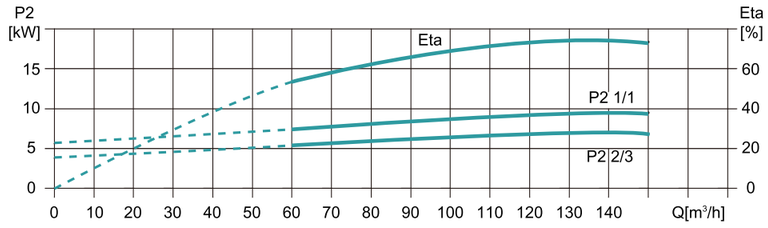
Dimensions

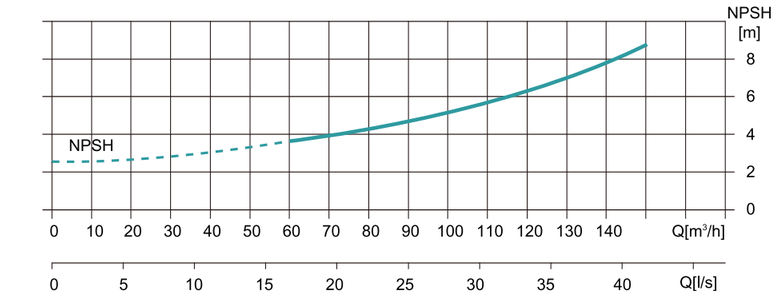


Model	Dim.(mm)					N.W.(kg) (BL/BLT)
	B1(BL/BLT)	B2	B1+B2(BL/BLT)	D1	D2	
BL(T)90-2-2	770	498	1268	314	268	190/202
BL(T)90-2	770	498	1268	314	268	200/212
BL(T)90-3-2	862	542	1404	314	268	221/232
BL(T)90-3	862	578	1440	355	268	263/274
BL(T)90-4-2	954	650	1604	397	307	334/345
BL(T)90-4	954	650	1604	397	307	334/345
BL(T)90-5-2	1046	650	1696	397	307	369/380
BL(T)90-5	1046	650	1696	397	307	369/380
BL(T)90-6-2	1138	692	1830	446	332	432/442
BL(T)90-6	1138	692	1830	446	332	432/442

Performance Curve - BL(T)120





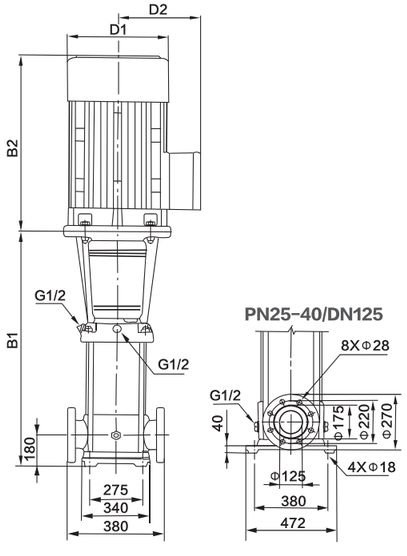


It is recommended to be used within lift range.

Performance Table

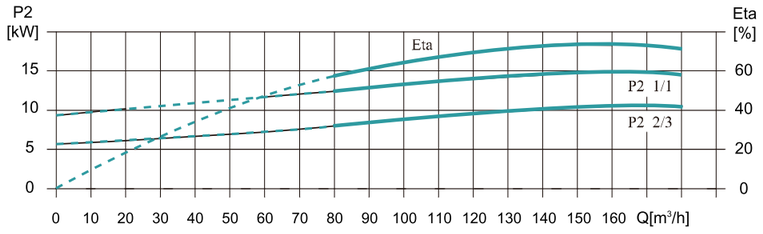
Model	Power		Caliber	Q (m³/h)	60	70	80	90	100	110	120	130	140	150	Head Range (m)
	kW	HP													
BL(T)120-1	11	15			22	21.8	21.6	21	20.5	19.5	18.5	17	16	15	15~22
BL(T)120-2-2	15	20			34	33.6	33	31	30.2	30	28.5	27	25	24	24~34
BL(T)120-2-1	18.5	25			41	40	39.5	38.5	37	36.5	34.5	32.5	30	27.5	27.5~41
BL(T)120-2	22	30			46	45	44.5	43.5	42.4	41	40	38	36	33.5	33.5~46
BL(T)120-3-2	30	40			57	56	55	53.5	52	51	49	46.5	43.5	41	41~57
BL(T)120-3-1	30	40			64	63	62	60	58.5	57.5	55.5	52	49	46	46~64
BL(T)120-3	30	40			69.5	68.5	67.5	66	64.4	62.5	61	57.5	54.5	51	51~69.5
BL(T)120-4-2	37	50			80.5	79	78	76	73.5	72	69	66	61.5	58	58~80.5
BL(T)120-4-1	37	50			87	86	84.5	82	80	78	76	72	68	64.5	64.5~87
BL(T)120-4	45	60	DN125	H(m)	92.5	91	90	88	85.5	83	81	77	73	68.5	68.5~92.5
BL(T)120-5-2	45	60			104. 5	103	101	99	96	93	90	85.5	80.5	75.5	75.5~104.5
BL(T)120-5-1	45	60			110. 5	109	107.5	105	102	100	97	92	86.5	83	83~110.5
BL(T)120-5	55	75			115. 5	114	113	110	107.5	104.5	101.5	96	91	86	86~115.5
BL(T)120-6-2	55	75			128	125.5	123	121	117.3	113.5	110	104.5	98.5	92.5	92.5~128
BL(T)120-6-1	55	75			134	132	130.5	127	124	121	118	111	105	100	100~134
BL(T)120-6	75	100			139	137	135	132	128.8	126	123	116	110	104	104~139
BL(T)120-7-2	75	100			151	148	145.5	143	138.6	134	130	123.5	116.5	109	109~151
BL(T)120-7-1	75	100			156. 5	154	152	148.5	144.5	141	137.5	130	123	116.5	116.5~156.5
BL(T)120-7	75	100			162. 5	160.5	158.5	155	151	148	145	137	129	123	123~162.5

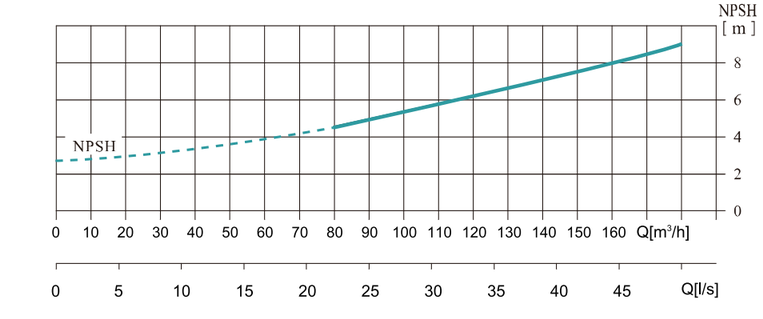
Dimensions



Modle	Dim. (mm)					N.W.(kg) (kg)
	B1	B2	B1+B2	D1	D2	
BL(T)120-1	840	580	1420	350	260	230
BL(T)120-2-2	1000	580	1580	350	260	245
BL(T)120-2-1	1000	610	1610	350	260	250
BL(T)120-2	1000	645	1645	360	285	285
BL(T)120-3-2	1160	705	1865	400	310	358
BL(T)120-3-1	1160	705	1865	400	310	360
BL(T)120-3	1160	705	1865	400	310	360
BL(T)120-4-2	1320	705	2025	400	310	400
BL(T)120-4-1	1320	705	2025	400	310	400
BL(T)120-4	1320	740	2060	460	340	460
BL(T)120-5-2	1480	740	2220	460	340	470
BL(T)120-5-1	1480	740	2220	460	340	470
BL(T)120-5	1510	810	2320	550	370	575
BL(T)120-6-2	1670	810	2480	550	370	585
BL(T)120-6-1	1670	810	2480	550	370	585
BL(T)120-6	1670	870	2540	580	410	705
BL(T)120-7-2	1830	870	2700	580	410	713
BL(T)120-7-1	1830	870	2700	580	410	715
BL(T)120-7	1830	870	2700	580	410	715

Performance Curve - BL(T)150



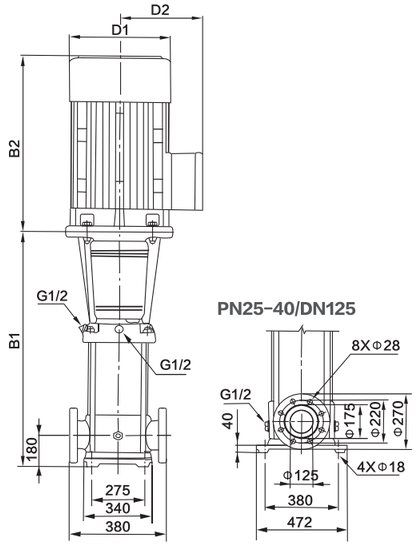


It is recommended to be used within lift range.

Performance Table

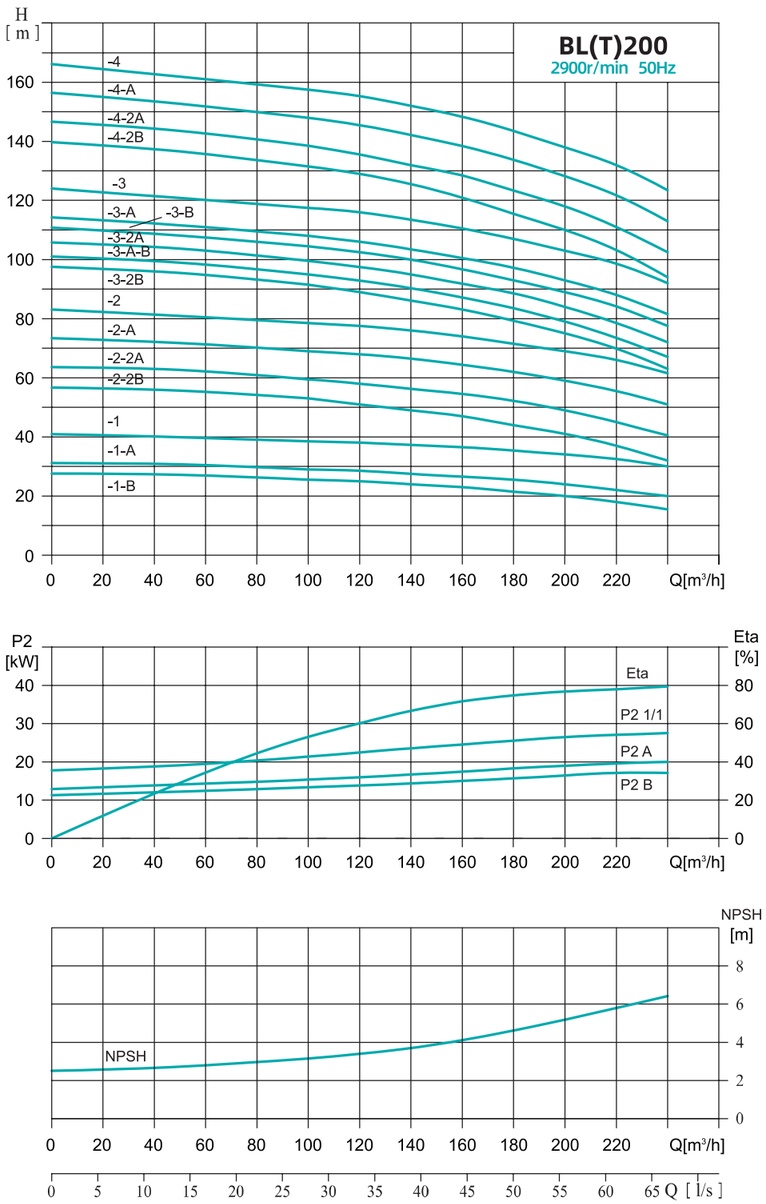
Model	Power		Caliber	Q (m³/h)	80	90	100	110	120	130	140	150	160	170	180	Head Range (m)
	kW	HP														
BL(T)150-1-1	11	15	DN125	H(m)	18.3	17.8	17.3	17	16	15	14	12.5	11	10	8.5	8.5~18.3
BL(T)150-1	15	20			24	23	22.5	22	21.5	20.5	20	18.5	17	16	15	15~24
BL(T)150-2-2	18.5	25			37	35.5	34	33	32	31	29	27.5	26	23	21	21~37
BL(T)150-2-1	22	30			44.3	43	42	40	39	38.5	37.5	35	33	30	27	27~44.3
BL(T)150-2	30	40			50	49	48	47	45.5	44	42	40	37	34	32	32~50
BL(T)150-3-2	30	40			63.5	61	59	57.5	56	54.5	53	49	45.5	42	39	39~63.5
BL(T)150-3-1	37	50			70	68	67	65	63	62	60	56	53	49	45	45~70
BL(T)150-3	37	50			78	76.5	75	73	70.5	68	66	63	59	55	50.5	50.5~78
BL(T)150-4-2	45	60			89	87	84	81.5	79	77	74.5	70.5	65.5	60	56	56~89
BL(T)150-4-1	45	60			96.5	94	91.5	89	86.5	84	81.5	77	72.5	67	62	62~96.5
BL(T)150-4	55	75			104	102	100	97	95	91	88	84	79.5	74	68	68~104
BL(T)150-5-2	55	75			115.5	112	109	106	102.5	100	97	92	86	79	73.5	73.5~115.5
BL(T)150-5-1	75	100			122.5	119.5	117	113.5	111.5	107.5	104.5	99	93.5	87	80	80~122.5
BL(T)150-5	75	100			130	127.5	125	121	119	115	111.5	106.5	101	94.5	86.5	86.5~130
BL(T)150-6-2	75	100			140	137	133	130	126	121	118	112	106	98	91	91~140
BL(T)150-6-1	75	100			148.5	145	141.7	137.5	135	131	127	120.5	114.5	106.5	97.5	97.5~148.5
BL(T)150-6	75	100			157	153	149	14 5	142	139.5	137	130	123.5	116	109	109~157

Dimensions



Modle	Dim. (mm)					N.W.(kg) (kg)
	B1	B2	B1+B2	D1	D2	
BL(T)150-1-1	840	580	1420	350	260	235
BL(T)150-1	840	580	1420	350	260	235
BL(T)150-2-2	1000	610	1610	350	260	250
BL(T)150-2-1	1000	645	1645	360	285	295
BL(T)150-2	1000	705	1705	400	310	350
BL(T)150-3-2	1160	705	1865	400	310	360
BL(T)150-3-1	1160	705	1865	400	310	385
BL(T)150-3	1160	705	1865	400	310	385
BL(T)150-4-2	1320	740	2060	460	340	460
BL(T)150-4-1	1320	740	2060	460	340	460
BL(T)150-4	1350	810	2160	550	370	560
BL(T)150-5-2	1510	810	2320	550	370	570
BL(T)150-5-1	1510	870	2380	580	410	690
BL(T)150-5	1510	870	2380	580	410	690
BL(T)150-6-2	1670	870	2540	580	410	700
BL(T)150-6-1	1670	870	2540	580	410	703
BL(T)150-6	1670	870	2540	580	410	703

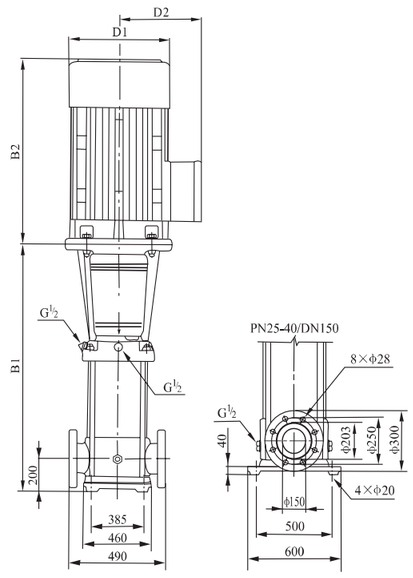
Performance Curve - BL(T)200



Performance Table

Model	Power		Caliber	Q (m³/h)	100	120	140	160	180	200	220	240	Head Range (m)
	kW	HP											
BL(T)200-1-B	18.5	25.0	DN150	H(m)	25.5	25	24	23	21.5	20	18	15.5	15.5~25.5
BL(T)200-1-A	22	30			29	28.5	27.5	26.5	25.5	24	22	20	20~29
BL(T)200-1	30	40			38.5	38	37.5	36.5	35	34	32.5	30	30~38.5
BL(T)200-2-2B	37	50			53	51	49	47	44	41	37	32	32~53
BL(T)200-2-2A	45	60			59.5	58	56	54	52.5	49	44.5	40.5	40.5~59.5
BL(T)200-2-A	55	75			69	68	66	64	62	59	55.5	51	51~69
BL(T)200-2	55	75			78.5	77.5	76	74	71.5	69	66	61.5	61.5~78.5
BL(T)200-3-2B	75	100			91.5	89	86.5	83.5	79	75	70	63	63~91.5
BL(T)200-3-A-B	75	100			95	93	90	87	83.5	79	73.5	67	67~95
BL(T)200-3-2A	75	100			99.5	97.5	94.5	91.5	89	84	78.5	72	72~99.5
BL(T)200-3-B	75	100			104.5	102.5	100	97	93	89	84.5	77.5	77.5~104.5
BL(T)200-3-A	75	100			108	106	103.5	100.5	97.5	93	88	81.5	81.5~108
BL(T)200-3	90	120			117.5	116	113.5	110.5	107	103	99	92	92~117.5
BL(T)200-4-2B	90	120			131.5	129	125.5	121	115.5	110	103.5	94	94~131.5
BL(T)200-4-2A	110	150			138.5	136	132	128	124	118	111	102.5	102.5~138.5
BL(T)200-4-A	110	150			148	145.5	142.5	138	134	128	122	113	113~148
BL(T)200-4	110	150			157.5	155.5	152.5	148	143.5	138	132.5	123.5	123.5~157.5

A and B represent different tyepes of small impellers.The outer diameter of A type impeller is larger than that of B type impeller.

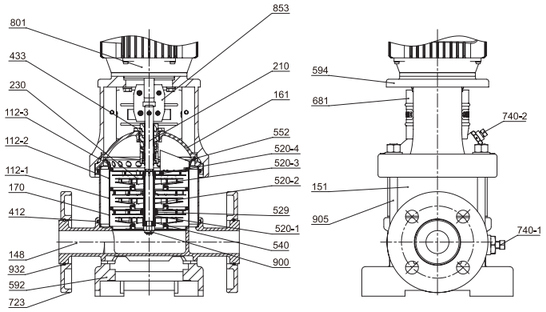


Dimensions

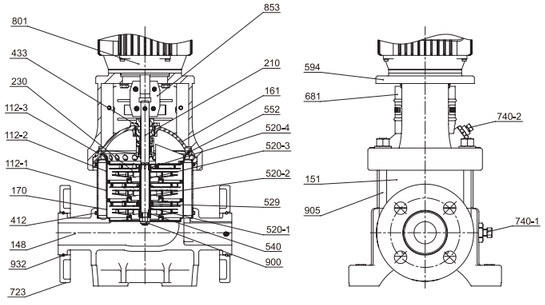
Modle	Dim. (mm)					N.W.(kg) (kg)
	B1	B2	B1+B2	D1	D2	
BL(T)200-1-B	907	610	1517	350	260	311
BL(T)200-1-A	907	645	1552	360	285	347
BL(T)200-1	907	705	1612	400	310	403
BL(T)200-2-2B	1101	705	1806	400	310	447
BL(T)200-2-2A	1101	740	1841	460	340	504
BL(T)200-2-A	1131	810	1941	550	370	595
BL(T)200-2	1131	810	1941	550	370	595
BL(T)200-3-2B	1325	870	2195	580	410	748
BL(T)200-3-A-B	1325	870	2195	580	410	748
BL(T)200-3-2A	1325	870	2195	580	410	748
BL(T)200-3-B	1325	870	2195	580	410	748
BL(T)200-3-A	1325	870	2195	580	410	748
BL(T)200-3	1325	920	2245	580	410	816
BL(T)200-4-2B	1519	920	2439	580	410	830
BL(T)200-4-2A	1519	1060	2579	660	550	1180
BL(T)200-4-A	1519	1060	2579	660	550	1180
BL(T)200-4	1519	1060	2579	660	550	1180

Components & Materials

BL2 BL4



BLT2 BLT4

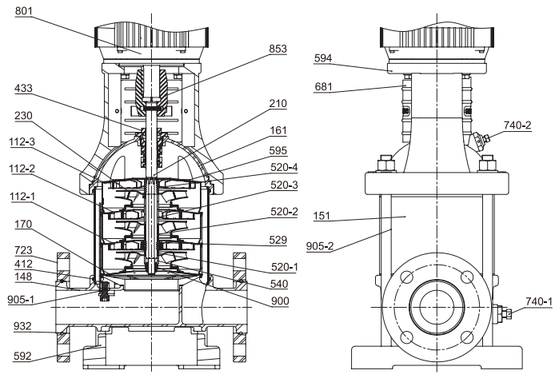


S.N.	Part Name	Material
112-1	With bearing deflector	304
112-2	Deflector	304
112-3	Outlet deflector	304
148	Pump seat	304
151	Outer cylinder	304
161	Spherical liner	304
170	Inlet deflector	304
210	Spline shaft	304
230	Impeller	304
412	O-ring	NBR
433	Mechanical seal	Assembly
520-1	Short round sleeve II	304
520-2	Short round sleeve I	304
520-3	Long round sleeve	304
520-4	Stop sleeve	304
529	Bearing inner ring	YN20
540	Bushing	304
552	Wave spring	304
592	Base	HT200
594	Motor base	HT200
681	Protective film	304
723	Movable flange	ZG230-450
740-1	Water discharge and pressure regulating assembly	304
740-2	Air release valve	304
801	Motor	/
853	Coupling	F0212J
900	Type I non-metallic insert hexagon lock nut	304
905	Pull rod	45#
932	Wire retainer	304

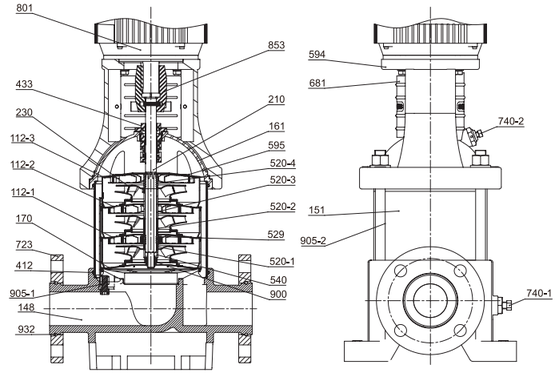
S.N.	Part Name	Material
112-1	With bearing deflector	304
112-2	Deflector	304
112-3	Outlet deflector	304
148	Pump seat	HT200
151	Outer cylinder	304
161	Spherical liner	QT450-10
170	Inlet deflector	304
210	Spline shaft	304
230	Impeller	304
412	O-ring	NBR
433	Mechanical seal	Assembly
520-1	Short round sleeve II	304
520-2	Short round sleeve I	304
520-3	Long round sleeve	304
520-4	Stop sleeve	304
529	Bearing inner ring	YN20
540	Bushing	304
552	Wave spring	304
594	Motor base	HT200
681	Protective film	304
723	Movable flange	ZG230-450
740-1	Water discharge and pressure regulating assembly	304
740-2	Air release valve	304
801	Motor	/
853	Coupling	F0212J
900	Type I non-metallic insert hexagon lock nut	304
905	Pull rod	45#
932	Wire retainer	304

Components & Materials

BL8 BL12 BL16 BL20



BLT8 BLT12 BLT16 BLT20

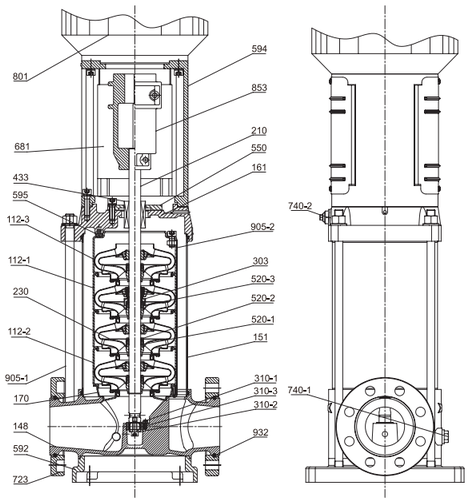


S.N.	Part Name	Material
112-1	With bearing deflector	304
112-2	Deflector	304
112-3	Outlet deflector	304
148	Pump seat	304
151	Outer cylinder	304
161	Spherical liner	304
170	Inlet deflector	304
210	Spline shaft	304
230	Impeller	304
412	O-ring	NBR
433	Mechanical seal	Assembly
520-1	Short round sleeve II	304
520-2	Short round sleeve I	304
520-3	Long round sleeve	304
520-4	Stop sleeve	304
529	Bearing inner ring	YN20
540	Bushing	304
592	Base	HT200
594	Motor base	HT200
595	Hold-down nail	FPM
681	Protective film	304
723	Movable flange	ZG230-450
740-1	Water discharge and pressure regulating assembly	304
740-2	Air release valve	304
801	Motor	/
853	Coupling	F0212J/45#
900	Type I non-metallic insert hexagon lock nut	304
905-1	Pull plate	304
905-2	Pull rod	45#
932	Wire retainer	304

S.N.	Part Name	Material
112-1	With bearing deflector	304
112-2	Deflector	304
112-3	Outlet deflector	304
148	Pump seat	HT200
151	Outer cylinder	304
161	Spherical liner	QT450-10
170	Inlet deflector	304
210	Spline shaft	304
230	Impeller	304
412	O-ring	NBR
433	Mechanical seal	Assembly
520-1	Short round sleeve II	304
520-2	Short round sleeve I	304
520-3	Long round sleeve	304
520-4	Stop sleeve	304
529	Bearing inner ring	YN20
540	Bushing	304
594	Motor base	HT200
595	Hold-down nail	FPM
681	Protective film	304
723	Movable flange	ZG230-450
740-1	Water discharge and pressure regulating assembly	304
740-2	Air release valve	304
801	Motor	/
853	Coupling	F0212J/45#
900	Type I non-metallic insert hexagon lock nut	304
905-1	Pull plate	304
905-2	Pull rod	45#
932	Wire retainer	304

Components & Materials

BL(T)32-90



S.N.	Part Name	Material
112-1	With bearing deflector	304
112-2	Deflector	304
112-3	Outlet deflector	304
148	Pump seat	304/HT250
151	Outer cylinder	304
161	Pump head	304/HT250
170	Inlet deflector	304
210	Shaft	304
230	Impeller	304
303	Impeller bearing	YN20
310-1	Bearing bush	YN20
310-2	Shaft cover	304
310-3	Bearing	YN20
433	Mechanical seal	Assembly
520-1	Split conical sleeve	304
520-2	Split conical sleeve nut	304
520-3	Split thick conical sleeve nut	304
550	Mechanical seal gland	Q235A
592	Base	HT250
594	Motor base	HT200
595	Hold-down nail	FPM
681	Protective film	304
723	Movable flange	ZG230-450
740-1	Plug	304
740-2	Air release valve	304
801	Motor	/
853	Coupling	QT500-7
905-1	Pull plate	304
905-2	Pull rod	45#
932	Wire retainer	304

Packing Sizes & Weight

BL(T)2			
Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)2-2	590×330×320	25	30
BL(T)2-3	590×330×320	25	30
BL(T)2-4	630×330×320	28	32
BL(T)2-5	630×330×320	28	33
BL(T)2-6	730×330×320	32	37
BL(T)2-7	730×330×320	32	37
BL(T)2-9	790×330×320	35	40
BL(T)2-11	790×330×320	36	41
BL(T)2-13	840×330×320	40	45
BL(T)2-15	880×330×320	41	46
BL(T)2-18	930×330×320	46	51
BL(T)2-22	1030×330×320	49	54
BL(T)2-26	1100×330×390	59	63

BL(T)4			
Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)4-2	590×330×320	26	28
BL(T)4-3	630×330×320	28	31
BL(T)4-4	730×330×320	32	36
BL(T)4-5	730×330×320	34	39
BL(T)4-6	790×330×320	35	40
BL(T)4-7	840×330×320	39	45
BL(T)4-8	840×330×320	39	47
BL(T)4-10	880×330×320	44	52
BL(T)4-12	930×330×320	45	51
BL(T)4-14	1030×330×390	55	66
BL(T)4-16	1100×330×390	57	69
BL(T)4-19	1190×350×420	68	81
BL(T)4-22	1270×350×420	70	85

BL(T)8			
Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)8-2	780×350×370	43	50
BL(T)8-3	780×350×370	46	52
BL(T)8-4	850×350×370	50	56
BL(T)8-5	850×350×370	53	60
BL(T)8-6	900×350×370	55	62
BL(T)8-8	990×350×370	64	71
BL(T)8-10	1130×350×420	77	82
BL(T)8-11	1130×350×420	78	83
BL(T)8-12	1230×370×460	86	92
BL(T)8-14	1330×370×460	106	112
BL(T)8-16	1400×370×460	109	115
BL(T)8-18	1470×370×460	116	122
BL(T)8-20	1520×370×460	119	125

Packing Sizes & Weight

BL(T)12			
Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)12-2	780×350×370	43	55
BL(T)12-3	780×350×370	47	58
BL(T)12-4	900×350×420	57	68
BL(T)12-5	900×350×420	59	69
BL(T)12-6	930×350×420	68	78
BL(T)12-7	1100×370×460	86	103
BL(T)12-8	1160×370×460	88	105
BL(T)12-9	1160×370×460	90	106
BL(T)12-10	1200×370×460	96	112
BL(T)12-12	1230×370×460	100	114
BL(T)12-14	1410×510×520	177	196
BL(T)12-16	1460×510×520	181	199
BL(T)12-18	1530×510×520	185	202

BL(T)16			
Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)16-2	780×350×370	51	58
BL(T)16-3	900×350×420	61	68
BL(T)16-4	930×350×420	70	77
BL(T)16-5	1100×370×460	95	102
BL(T)16-6	1160×370×460	97	105
BL(T)16-7	1200×370×460	101	111
BL(T)16-8	1230×370×460	103	113
BL(T)16-10	1410×510×520	188	195
BL(T)16-12	1500×510×520	192	199
BL(T)16-14	1590×510×520	208	214
BL(T)16-16	1680×510×520	213	218

BL(T)20			
Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)20-2	780×350×370	51	58
BL(T)20-3	930×350×420	68	76
BL(T)20-4	1100×370×460	93	101
BL(T)20-5	1100×370×460	95	103
BL(T)20-6	1160×370×460	99	109
BL(T)20-7	1200×370×460	101	111
BL(T)20-8	1320×510×520	183	191
BL(T)20-10	1410×510×520	188	196
BL(T)20-12	1500×510×520	202	210
BL(T)20-14	1590×510×520	207	215
BL(T)20-17	1770×510×520	231	239

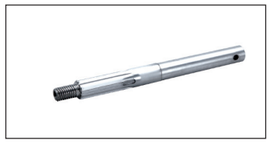
BL(T)32			
Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)32-2-2	1100×370×460	93	98
BL(T)32-2		100	105
BL(T)32-3-2	1300×400×460	118	123
BL(T)32-3		118	123
BL(T)32-4-2		123	129
BL(T)32-4		123	129
BL(T)32-5-2	1550×510×520	207	213
BL(T)32-5		207	213
BL(T)32-6-2		211	216
BL(T)32-6		211	216
BL(T)32-7-2	1590×510×520	226	232
BL(T)32-7		226	232
BL(T)32-8-2		229	235
BL(T)32-8		229	235
BL(T)32-9-2	1890×510×520	250	256
BL(T)32-9		250	256
BL(T)32-10-2		253	259
BL(T)32-10		253	259
BL(T)32-11-2	2030×530×560	305	311
BL(T)32-11		305	311
BL(T)32-12-2		307	314
BL(T)32-12		307	314
BL(T)32-13-2	2330×580×600	399	406
BL(T)32-13		399	406
BL(T)32-14-2		402	409
BL(T)32-14		402	409
BL(T)32-15-2		405	412
BL(T)32-15		405	412

BL(T)45			
Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)45-2-2	1210×440×500	126	137
BL(T)45-2		130	141
BL(T)45-3-2	1480×510×520	209	220
BL(T)45-3		209	220
BL(T)45-4-2		223	233
BL(T)45-4		223	233
BL(T)45-5-2	1610×510×520	246	257
BL(T)45-5		246	257
BL(T)45-6-2	1710×530×560	297	308
BL(T)45-6		297	308
BL(T)45-7-2	1970×580×600	383	395
BL(T)45-7		383	395
BL(T)45-8-2		389	397
BL(T)45-8		389	397
BL(T)45-9-2	2130×580×600	394	405
BL(T)45-9		416	427
BL(T)45-10-2		420	431
BL(T)45-10		420	431
BL(T)45-11-2	2330×630×650	497	508
BL(T)45-11		497	508
BL(T)45-12-2		500	512
BL(T)45-12		500	512
BL(T)45-13-2	2390×630×650	506	518

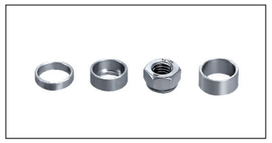
BL(T)64			
Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)64-2-2	1480×510×520	152	155
BL(T)64-2-1		215	218
BL(T)64-2		215	218
BL(T)64-3-2	1550×530×460	229	232
BL(T)64-3-1		229	232
BL(T)64-3		246	249
BL(T)64-4-2		250	254
BL(T)64-4-1		292	295
BL(T)64-4		292	295
BL(T)64-5-2	1810×580×600	383	386
BL(T)64-5-1		383	386
BL(T)64-5		383	386
BL(T)64-6-2		386	290
BL(T)64-6-1		408	412
BL(T)64-6		408	412
BL(T)64-7-2	2010×630×650	425	428
BL(T)64-7-1		425	428
BL(T)64-7		484	487
BL(T)64-8-2		488	491
BL(T)64-8-1		488	491
BL(T)64-8		488	491

BL(T)90			
Model	Dim.(mm) (L*W*H)	G.W.(kg)	
		BL	BLT
BL(T)90-2-2	1480×510×520	216	228
BL(T)90-2		226	238
BL(T)90-3-2	1550×530×460	248	259
BL(T)90-3		290	301
BL(T)90-4-2	1780×580×600	372	384
BL(T)90-4		372	384
BL(T)90-5-2		407	418
BL(T)90-5		407	418
BL(T)90-6-2	1920×630×650	479	489
BL(T)90-6		479	489

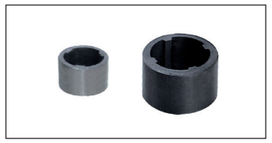
Shaft



Lining



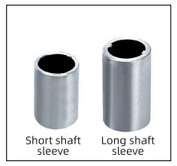
Bearing inner



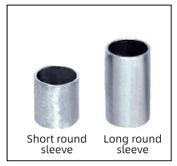
Cartridge mechanical seal

Coupling

Shaft sleeve



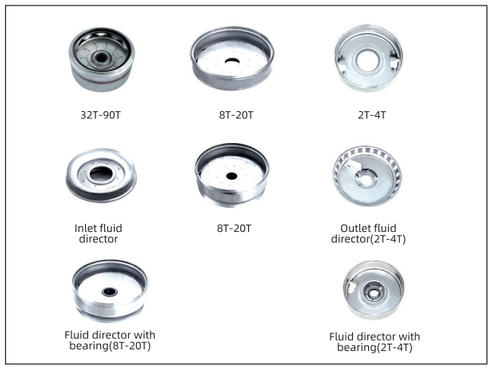
Round sleeve



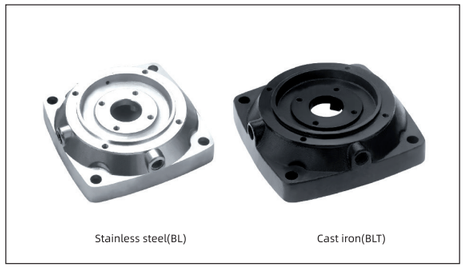
Base plate

Pump base

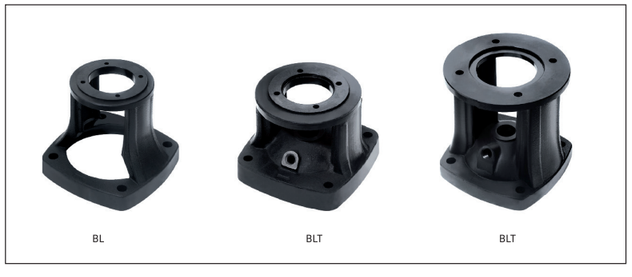
Fluid director



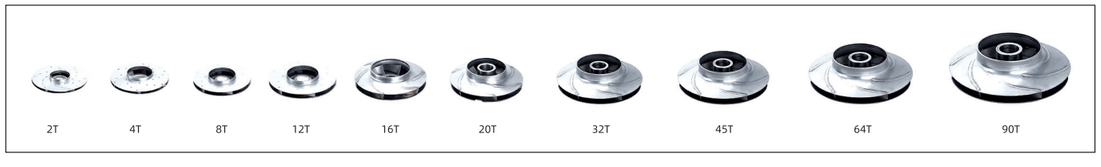
Pump head



Motor base



Impeller



Horizontal Multi-Stage Centrifugal Pumps

BW

BWJ

Model Instruction

BW J 8 - 3 R - L

- L: 316 material (304 material is not marked)
- R: Hot water type (Cold-water is not maked)
- 3: Pump stage
- 8: Rated flow (m^3/h)
- J: "J"for sectional type; No "J"for cylinder type
- BW: BW Light-type stainless steel horizontal multistage centrifugal pump

Overview Of The Product

BW, BWJ stainless steel horizontal multistage centrifugal pumps are non-self priming pumps absorbing the advanced technology from home and abroad. They are classified into two kinds: cylinder type and sectional type. They adopt horizontal motor and alloy mechanical seal, which makes the replacement more convenient. The overflowing part of the pump is made of stainless steel 304, applicable for light-corrosion medium. Relying on the high efficiency, energy saving performance, reliable quality, wide usable range, our products receive the great popularity after being launched.

Application Limits

◎ Temperature range of medium: Normal type 0 ~ +68℃ , hot water type 0 ~ +120℃
◎ Maximum ambient temperature: +40 ℃
◎ Maximum system pressure : 1.0MPa
◎ When the density or viscosity of the transmission medium exceeds that of water, it is necessary to select a drving motor of high-power.
◎ pH: 5 to 8

Applications Fields

- Air conditioner system
- Aquaculture
- Cooling System
- Industrial cleansing
- Environmental application
- Water processing(Water purification)
- Fertilization/measuring system
- Other special applications

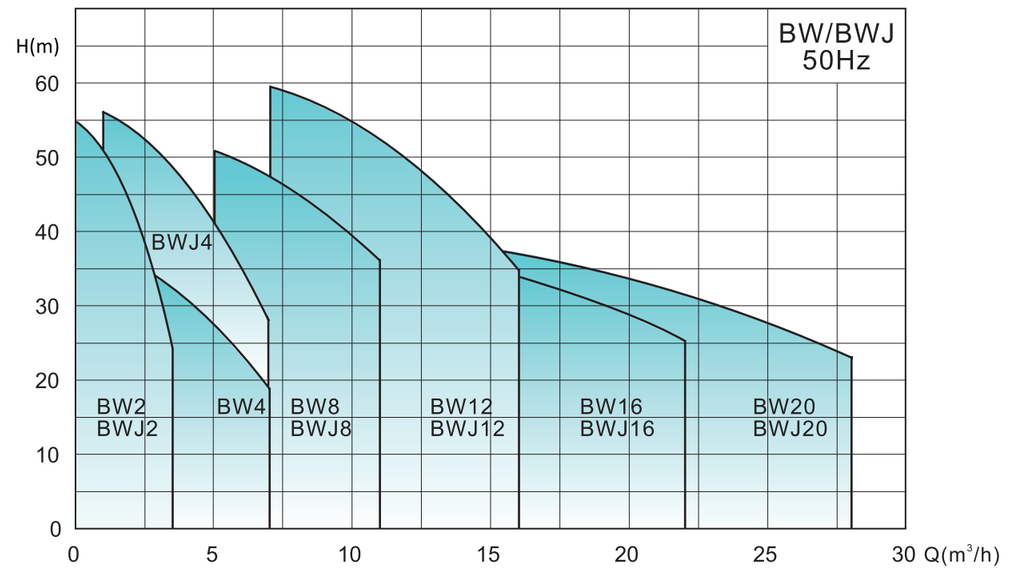
Certificate

CE

Optional Available On Request

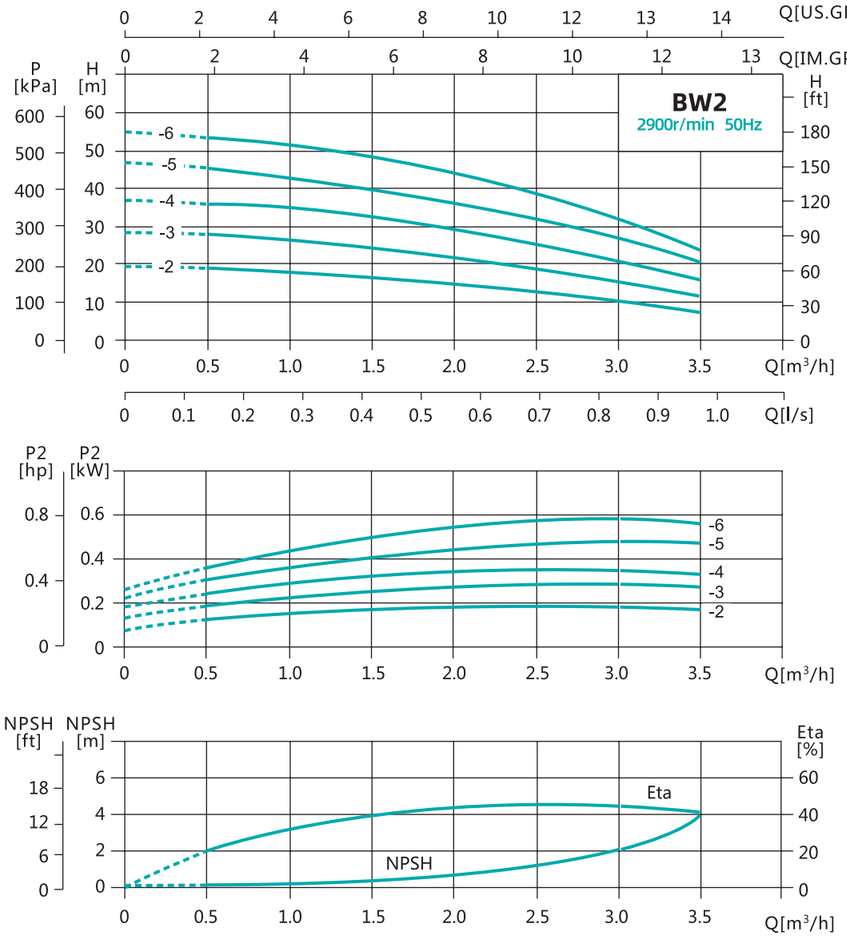
◎ Full-enclosed and ventilating two-pole standard motor
◎ Protection class: IP55
◎ Insulation class: F
◎ Standard voltage (50Hz): Single phase 220V Three phase:380V or 220/380V

Performance Range



Model	BW2/BWJ2	BW4/BWJ4	BW8	BW12	BW16	BWJ8	BWJ12	BWJ16	BW/BWJ20
Rated Flow(m^3/h)	2	4	8	12	16	8	12	16	20
Flow Range(m^3/h)	0.5~3.5	1~7	5~11	7~16	8~22	5~11	7~16	8~22	10~28
Max.Pressure(bar)	5.5	4	5	5	4	5	5	4	4
Motor Power(kW)	0.37~0.75	0.37~1.1	0.75~2.2	1.2~3	2.2~3	0.75~2.2	1.2~3	2.2~3	1.1~3.5
Max.Efficiency(%)	45	59	64	64	70	64	64	70	70
Inlet	G1	G1 1/4	G2	G2	G2	G1 1/2	G1 1/2	G1 1/2	G2
Outlet	G1	G1	G2	G2	G2	G1 1/4	G1 1/4	G1 1/4	G2
Tamperature Range	Standard Type0~+68℃ Hot Water Type 0~+120℃								

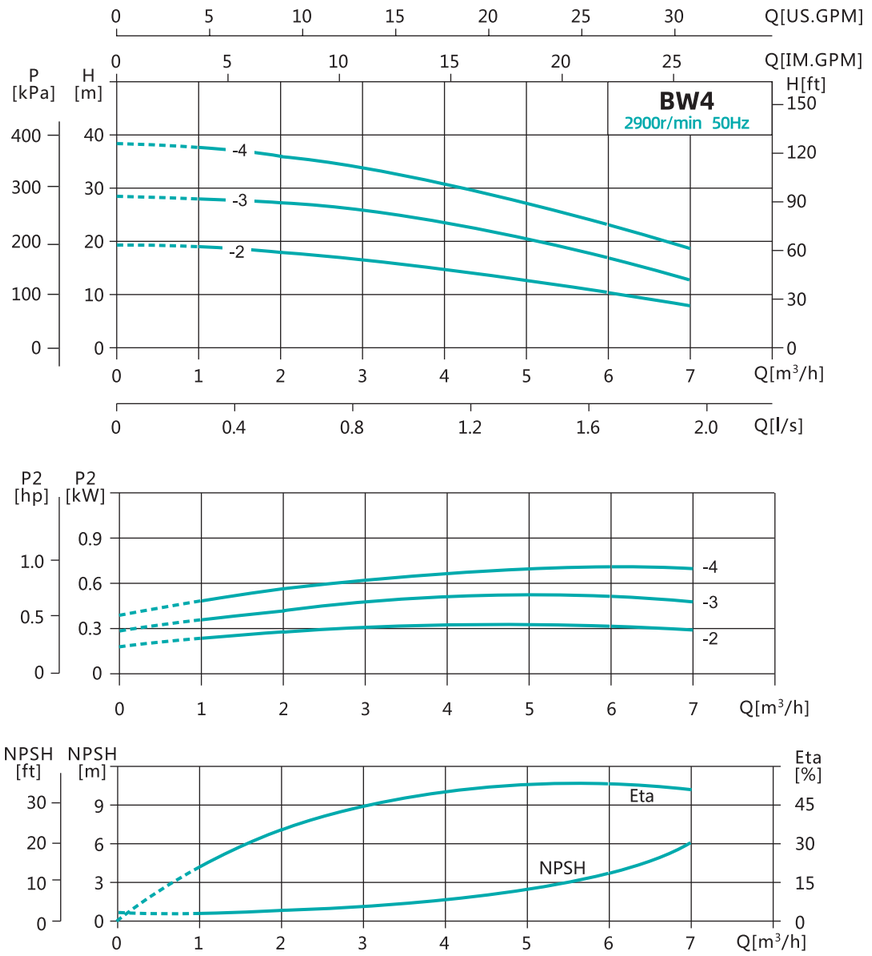
Performance Details-BW2



It is recommended to be used within lift range.

Model	Power		Q (m³/h)	0.5	1.0	1.5	2.0	2.5	3.0	3.5	Head Range (m)
	kW	HP									
BW2-2	0.37	0.5	H(m)	19	18	16.5	15	13	10	7.5	7.5~19
BW2-3	0.37	0.5		28	26.5	24.5	22	19	15.5	12	12~28
BW2-4	0.55	0.75		36	34.5	33	29	25	20.5	16	16~36
BW2-5	0.55	0.75		45.5	43	40	36	31.5	26.5	20.5	20.5~45.5
BW2-6	0.75	1		53.5	51	48	44	39	32	24	24~53.5

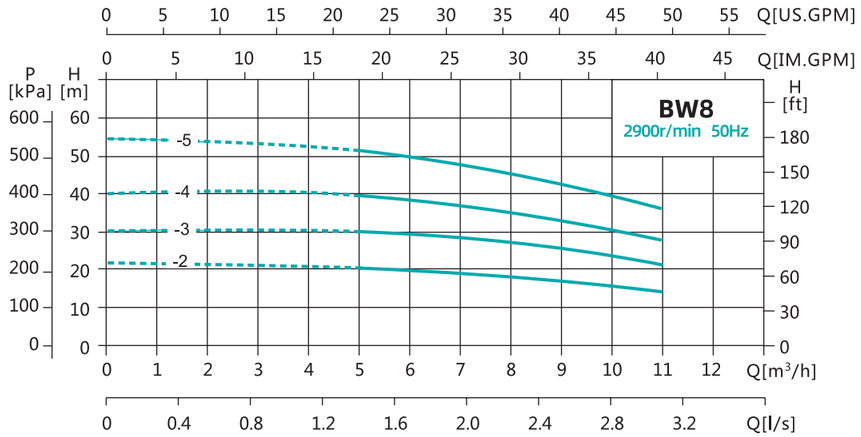
Performance Details-BW4

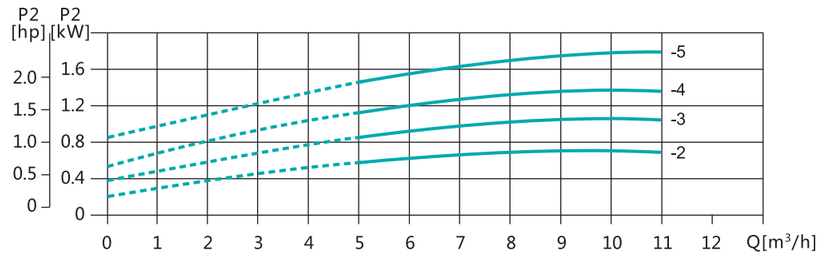


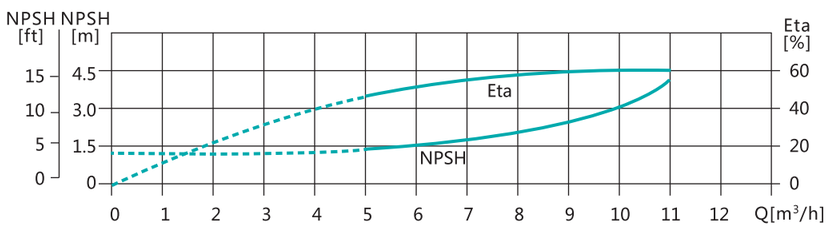
It is recommended to be used within lift range.

Model	Power		Q (m³/h)	1	2	3	4	5	6	7	Head Range (m)
	kW	HP									
BW4-2	0.37	0.5	H(m)	19	18	17	15	12.5	10	8	8~19
BW4-3	0.55	0.75		28	27	26	23.5	20.5	17	13	13~28
BW4-4	0.75	1		37.5	36	34	31	27	23	19	19~37.5

Performance Details-BW8



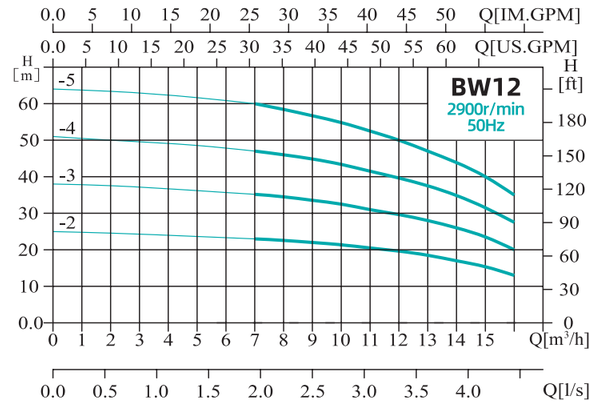


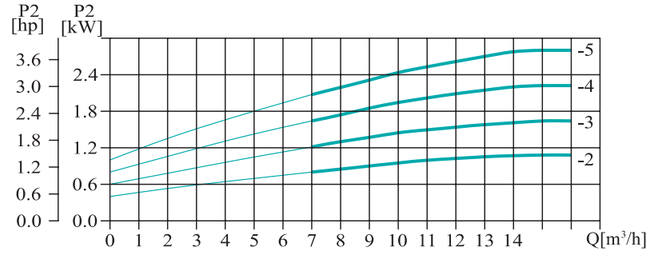


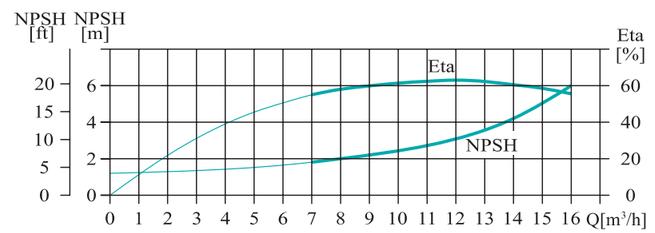
It is recommended to be used within lift range.

Model	Power		Q (m³/h)	5	6	7	8	9	10	11	Head Range (m)
	kW	HP									
BW8-2	0.75	1	H(m)	20	19.5	19	18	17	15.5	14	14~20
BW8-3	1.1	1.5		29.5	29	28	27	25	23	21	21~29.5
BW8-4	1.5	2		39	38	37	35	33	30.5	27.5	27.5~39
BW8-5	2.2	3		51	49.5	47.5	45	42.5	39.5	36	36~51

Performance Details-BW12

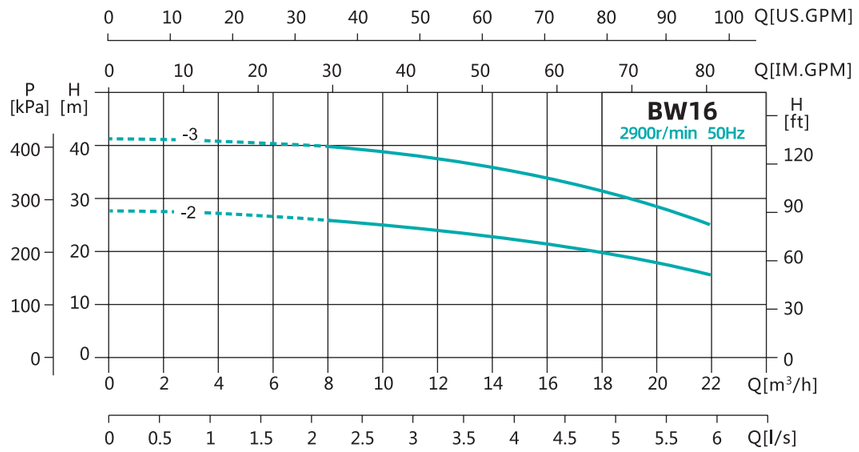


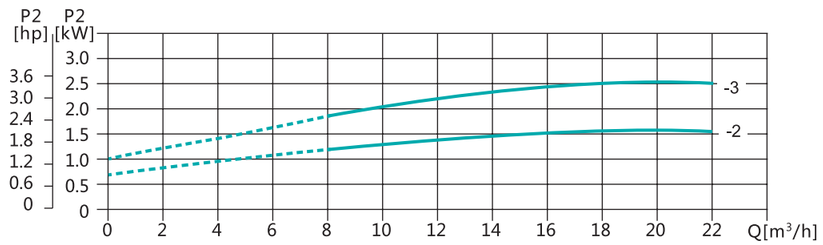


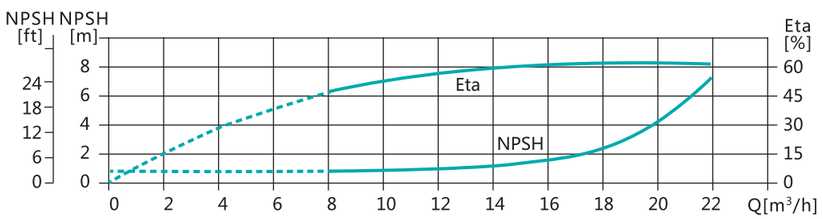


Model	Power		Q (m³/h)	7	8	10	12	14	15	16	Head Range (m)
	kW	HP									
BW12-2	1.2	1.6	H(m)	23.5	23	22	19.5	17	15	14	14~23.5
BW12-3	1.8	2.4		35.5	35	33	29.5	26	23	21	21~35.5
BW12-4	2.4	3.2		47	46	44	39.5	34	31	28	28~47
BW12-5	3	4.0		59.5	58	55	50	43	39	35	35~59.5

Performance Details-BW16



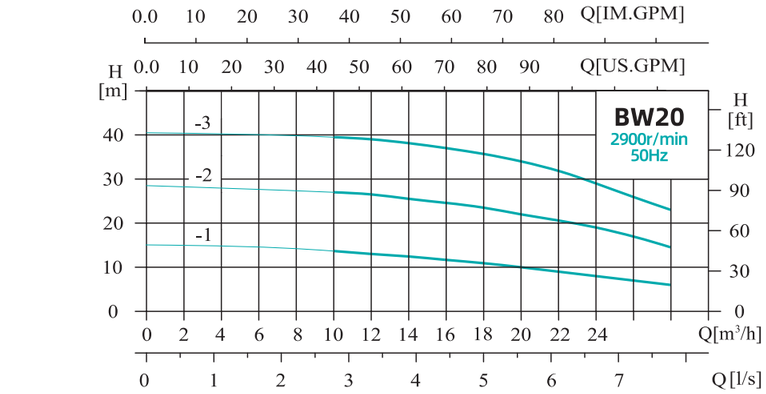


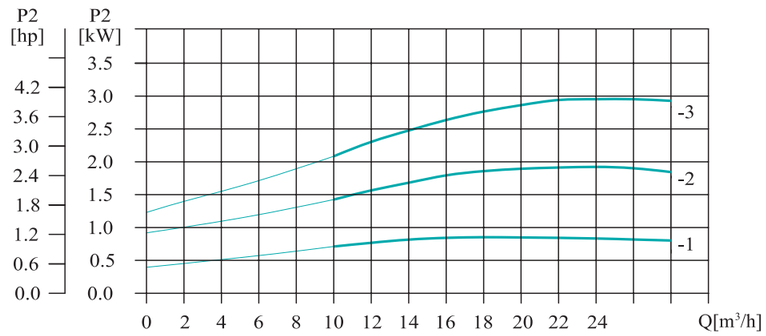


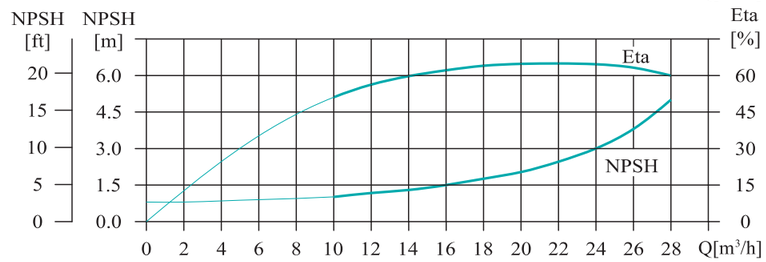
It is recommended to be used within lift range.

Model	Power		Q (m³/h)	8	10	12	14	16	18	20	22	Head Range (m)
	kW	HP										
BW16-2	2.2	3	H(m)	26	25	24	23	21.7	20	18	15.5	15.5~26
BW16-3	3	4		40	39	38	36	34	31.5	29	25	25~40

Performance Details-BW20



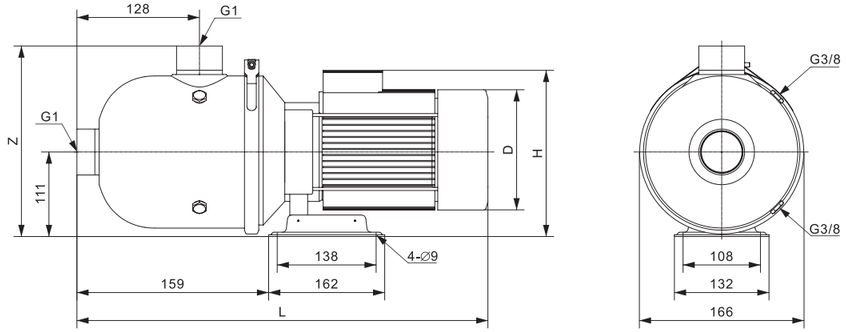




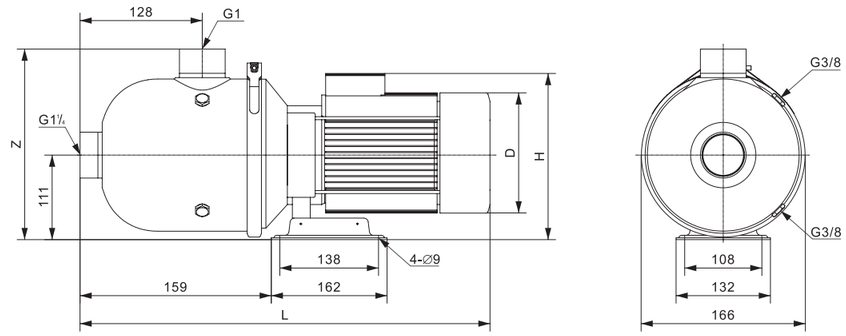
It is recommended to be used within lift range.

Model	Power		Q (m³/h)	10	12	14	16	18	20	22	24	26	28	Head Range (m)
	kW	HP												
BW20-1	1.1	1.5	H(m)	13.5	13	12.5	12	11	10	9	8	7	6	6~13.5
BW20-2	2.2	3		27	26.5	25.5	25	23.5	22	20.5	18.5	17	14.5	14.5~27
BW20-3	3.5	4.7		39.5	39	38	37.5	35.5	34	31.5	29	26	23	23~39.5

Dimensions & Weight

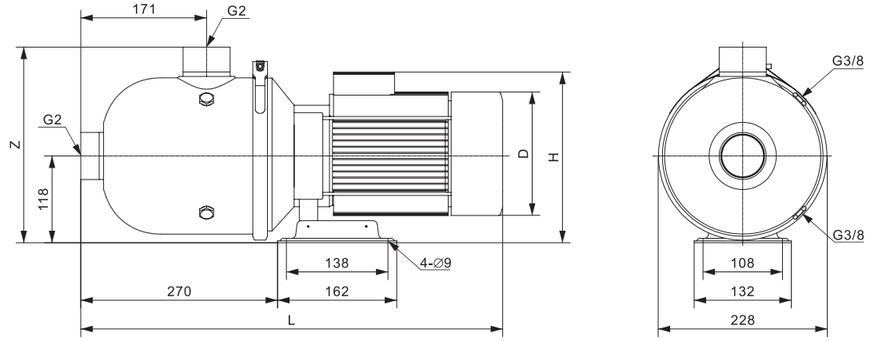


Model	L(mm)	Z(mm)	H(mm)	D(mm)	Weight (kg)
BW2-2	403	214	215	140	9
BW2-3	403	214	215	140	10
BW2-4	403	214	215	140	11
BW2-5	403	214	215	140	12
BW2-6	424	215	224	158	14

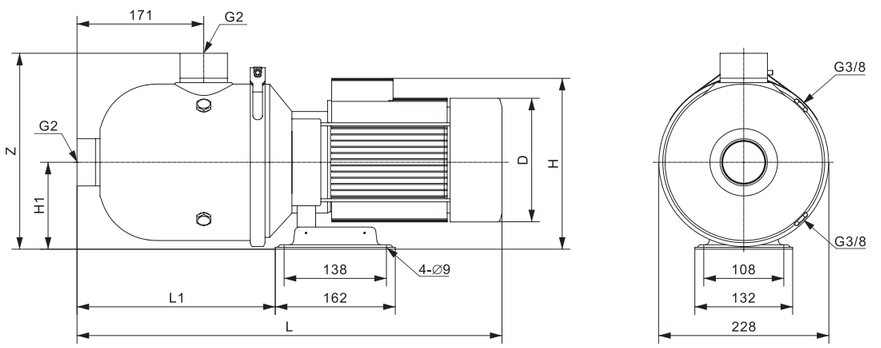


Model	L(mm)	Z(mm)	H(mm)	D(mm)	Weight (kg)
BW4-2	403	214	215	140	10
BW4-3	403	214	215	140	12
BW4-4	424	215	224	158	14

Dimensions & Weight

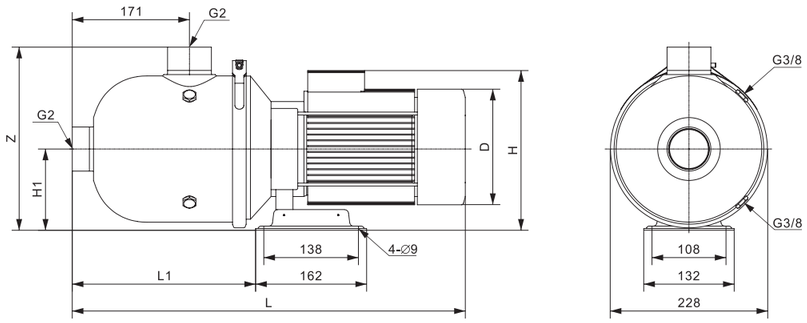


Model	L(mm)	Z(mm)	H(mm)	D(mm)	Weight (kg)
BW8-2	536	266	229	158	13
BW8-3	536	266	229	158	19
BW8-4	574	266	232	168	23
BW8-5	574	266	232	168	24

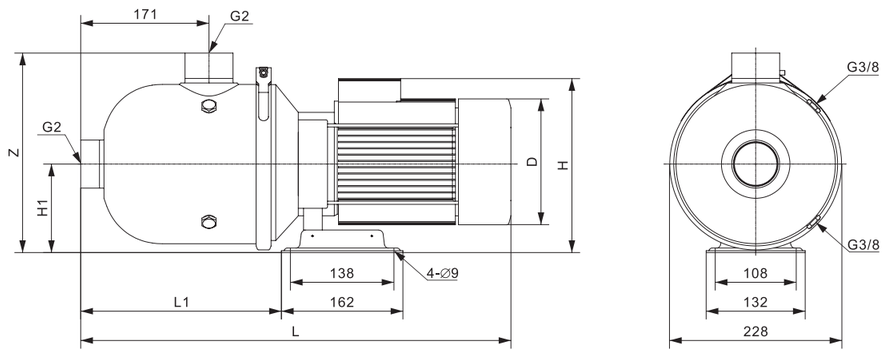


Model	L(mm)	L1(mm)	Z(mm)	H1(mm)	H(mm)	D(mm)	Weight (kg)
BW12-2	536	270	266	118	229	158	20
BW12-3	574	270	266	118	232	168	24
BW12-4	574	270	266	118	232	168	28
BW12-5	603	258	278	130	259	196	33

Dimensions & Weight

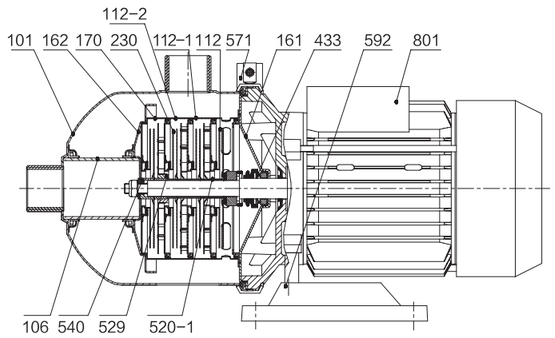


Model	L(mm)	L1(mm)	Z(mm)	H1(mm)	H(mm)	D(mm)	Weight (kg)
BW16-2	574	270	266	118	232	168	25
BW16-3	603	258	278	130	259	196	33



Model	L(mm)	L1(mm)	Z(mm)	H1(mm)	H(mm)	D(mm)	Weight (kg)
BW20-1	536	270	266	118	229	158	17
BW20-2	574	270	266	118	232	168	25
BW20-3	603	258	278	130	259	196	32

Components & Materials

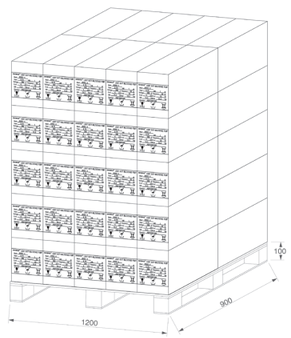


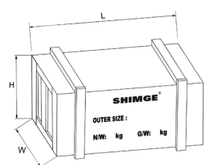
No.	Component	Material
101	Pressure cylinder assembly	304
106	Connecting pipe	304
112	Outlet deflector	304
112-1	Deflector	304
112-2	With bearing deflector	304
161	COVER AS-FRONT	304
162	Pressing plate assembly	304
170	Inlet deflector	304
230	impeller	304
433	Mechanical seal	Assembly
520-1	Oblong sleeve	304
529	Bearing inner race	YN20
540	bushing	304
571	Hoop assembly	304
592	base	Q235A
801	electric machinery	Horizontal motor (extended shaft)

Packing Sizes & Weight

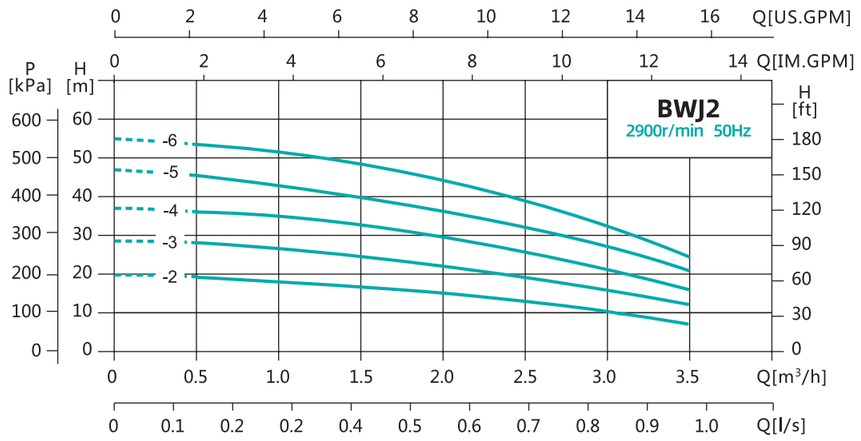
BW				
Model	Dim.(mm)			G.W. (kg)
	L	W	H	
BW2-2	450	245	305	10
BW2-3	450	245	305	11
BW2-4	450	245	305	12
BW2-5	450	245	305	13
BW2-6	450	245	305	15
BW4-2	450	245	305	11
BW4-3	450	245	305	13
BW4-4	450	245	305	15
BW8-2	635	280	330	15
BW8-3	635	280	330	21
BW8-4	635	280	330	25
BW8-5	635	280	330	26

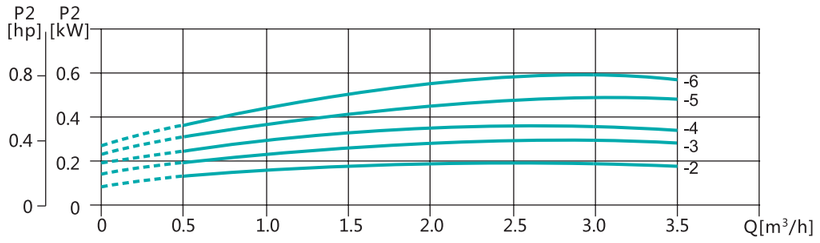
BW				
Model	Dim.(mm)			G.W. (kg)
	L	W	H	
BW12-2	635	280	330	22
BW12-3	635	280	330	26
BW12-4	635	280	330	30
BW12-5	635	280	330	35
BW16-2	635	280	330	27
BW16-3	635	280	330	35
BW20-1	635	280	330	19
BW20-2	635	280	330	27
BW20-3	635	280	330	34

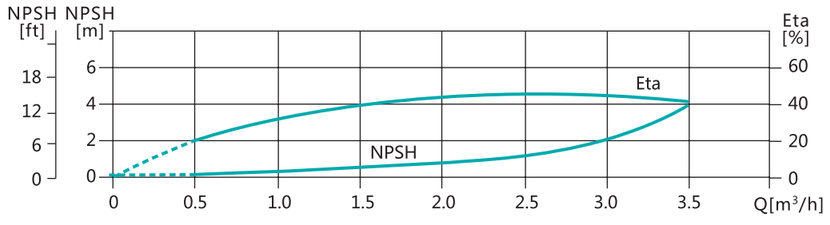




Performance Details-BWJ2



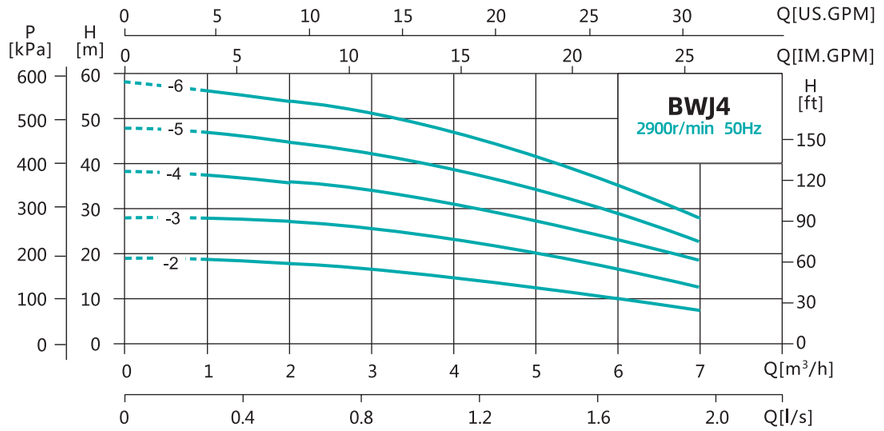


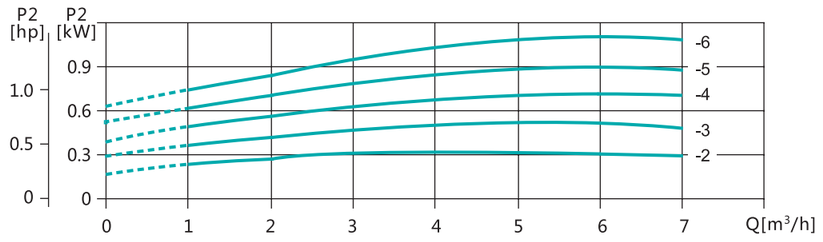


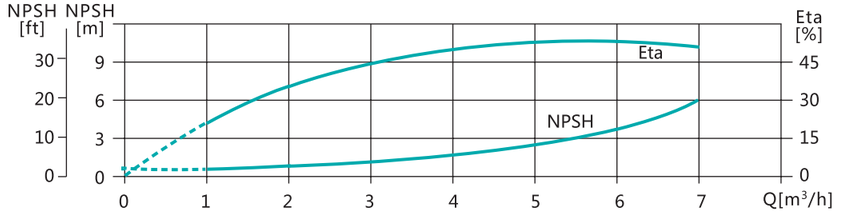
It is recommended to be used within lift range.

Model	Power		Q (m³/h)	0.5	1.0	1.5	2.0	2.5	3.0	3.5	Head Range (m)
	kW	HP									
BWJ2-2	0.37	0.5	H(m)	19	18	16.5	15	13	10	7.5	7.5~19
BWJ2-3	0.37	0.5		28	26.5	24.5	22	19	15.5	12	12~28
BWJ2-4	0.55	0.75		36	34.5	33	29	25	20.5	16	16~36
BWJ2-5	0.55	0.75		45.5	43	40	36	31.5	26.5	20.5	20.5~45.5
BWJ2-6	0.75	1		53.5	51	48	44	39	32	24	24~53.5

Performance Details-BWJ4



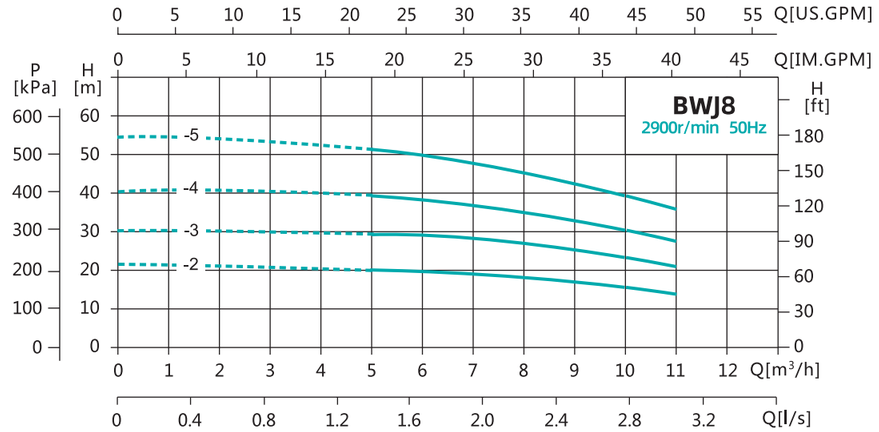


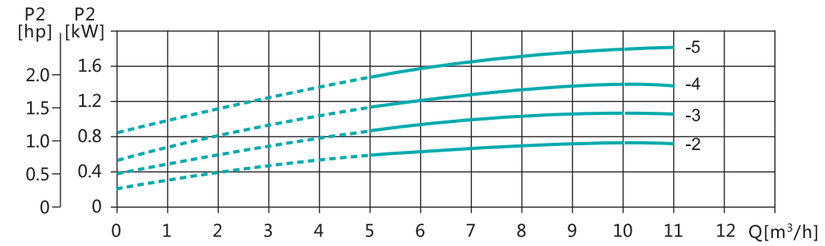


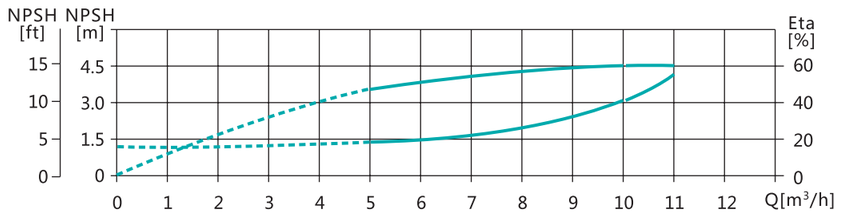
It is recommended to be used within lift range.

Model	Power		Q (m³/h)	1	2	3	4	5	6	7	Head Range (m)
	kW	HP									
BWJ4-2	0.37	0.5	H(m)	19	18	17	15	12.5	10	8	8~19
BWJ4-3	0.55	0.75		28	27	26	23.5	20.5	17	13	13~28
BWJ4-4	0.75	1		37.5	36	34	31	27	23	19	19~37.5
BWJ4-5	1.1	1.5		47	45	42.5	39	34	29	23	23~47
BWJ4-6	1.1	1.5		56	54	51	47	41.5	35.5	28	28~56

Performance Details-BWJ8



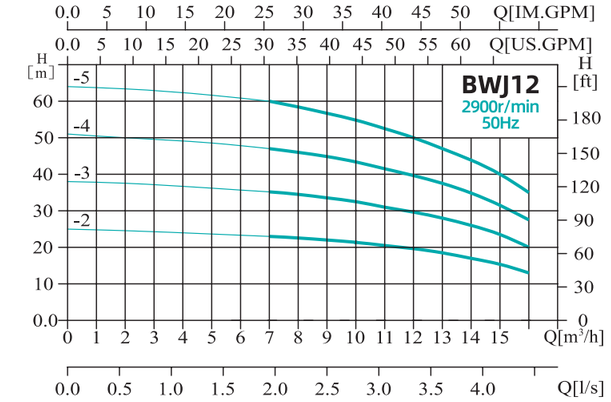


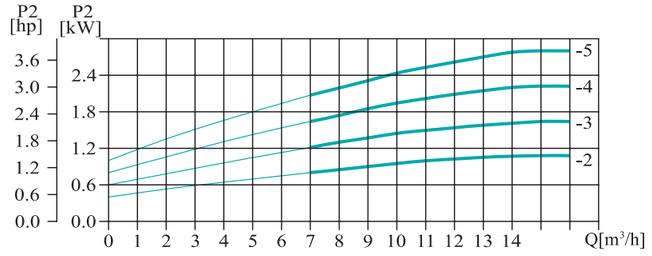


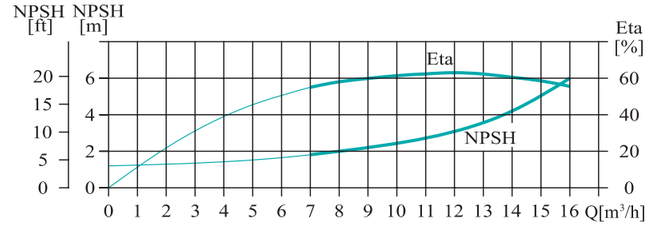
It is recommended to be used within lift range.

Model	Power		Q (m³/h)	5	6	7	8	9	10	11	Head Range (m)
	kW	HP									
BWJ8-2	0.75	1	H(m)	20	19.5	19	18	17	15.5	14	14~20
BWJ8-3	1.1	1.5		29.5	29	28	27	25	23	21	21~29.5
BWJ8-4	1.5	2		39	38	37	35	33	30.5	27.5	27.5~39
BWJ8-5	2.2	3		51	49.5	47.5	45	42.5	39.5	36	36~51

Performance Details-BWJ12



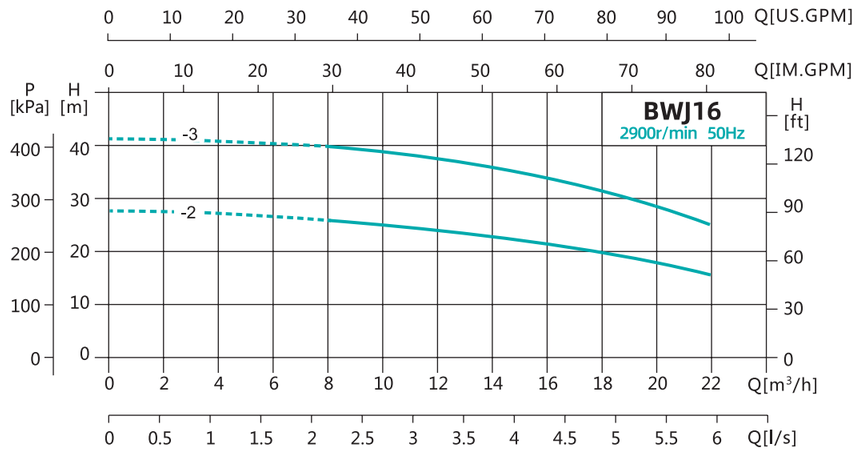


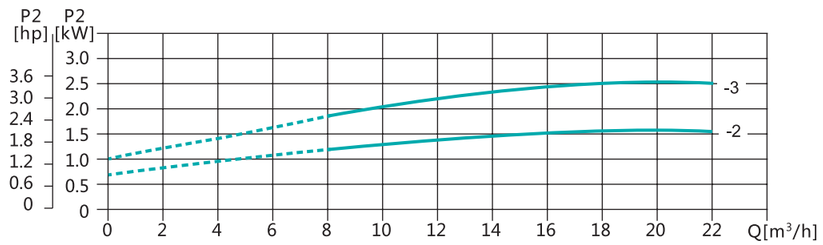


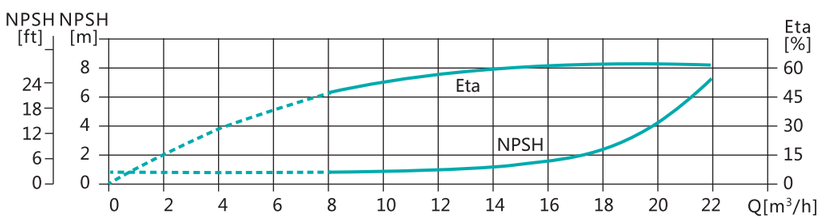
It is recommended to be used within lift range.

Model	Power		Q (m³/h)	7	8	10	12	14	15	16	Head Range (m)
	kW	HP									
BWJ12-2	1.2	1.6	H(m)	23.5	23	22	19.5	17	15	14	14~23.5
BWJ12-3	1.8	2.4		35.5	35	33	29.5	26	23	21	21~35.5
BWJ12-4	2.4	3.2		47	46	44	39.5	34	31	28	28~47
BWJ12-5	3	4.0		59.5	58	55	50	43	39	35	35~59.5

Performance Details-BWJ16



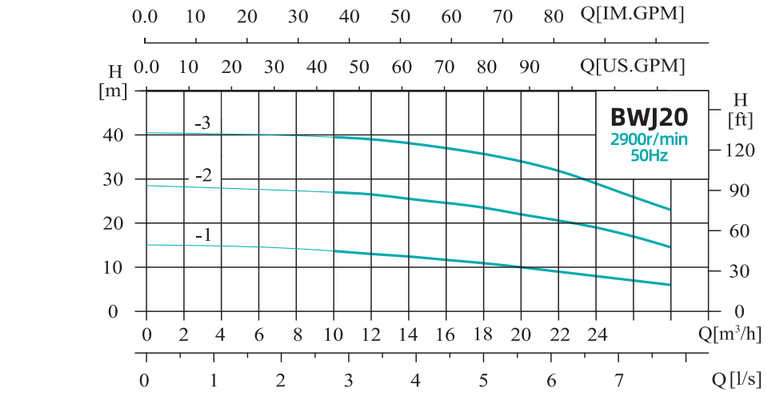


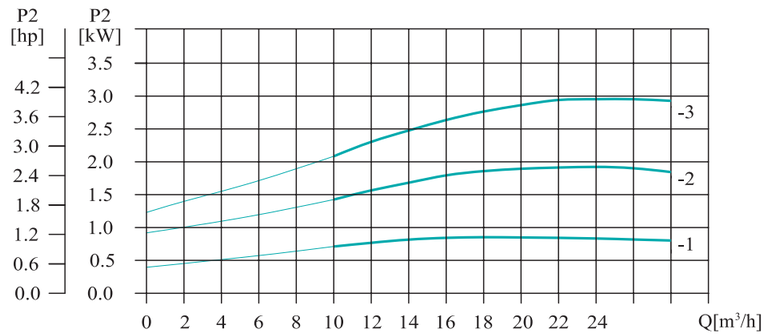


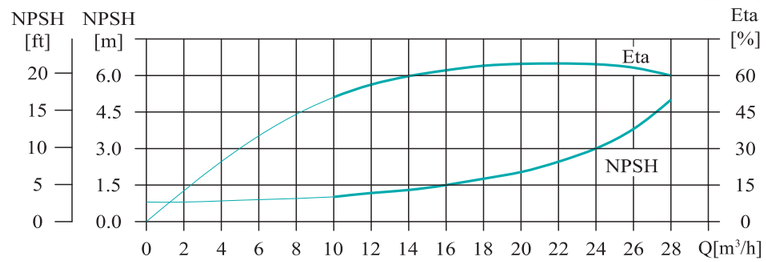
It is recommended to be used within lift range.
It is recommended to be used within lift range.

Model	Power		Q (m³/h)	8	10	12	14	16	18	20	22	Head Range (m)
	kW	HP										
BWJ16-2	2.2	3	H(m)	26	25	24	23	21.7	20	18	15.5	15.5~26
BWJ16-3	3	4		40	39	38	36	34	31.5	29	25	25~40

Performance Details-BWJ20



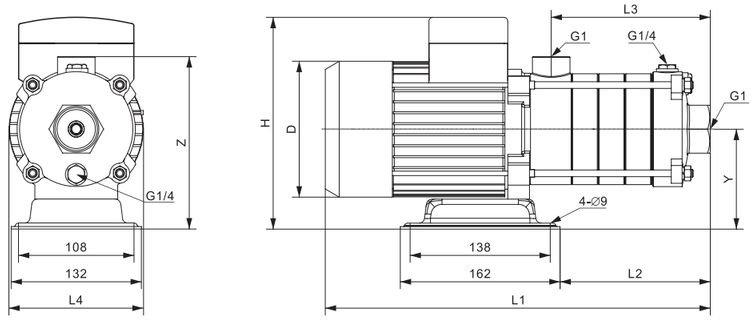




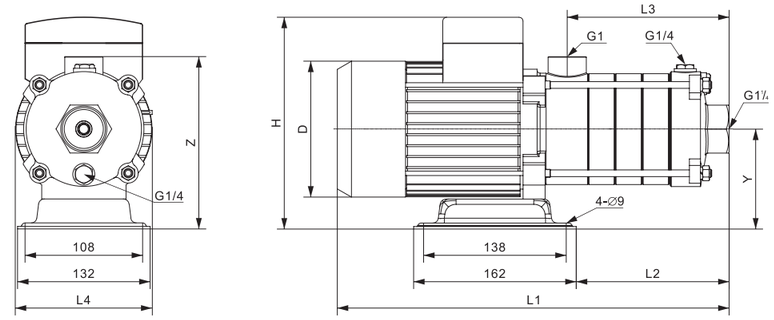
It is recommended to be used within lift range.

Model	Power		Q (m³/h)	10	12	14	16	18	20	22	24	26	28	Head Range (m)
	kW	HP												
BWJ20-1	1.1	1.5	H(m)	13.5	13	12.5	12	11	10	9	8	7	6	6~13.5
BWJ20-2	2.2	3		27	26.5	25.5	25	23.5	22	20.5	18.5	17	14.5	14.5~27
BWJ20-3	3.5	4.7		39.5	39	38	37.5	35.5	34	31.5	29	26	23	23~39.5

Dimensions & Weight

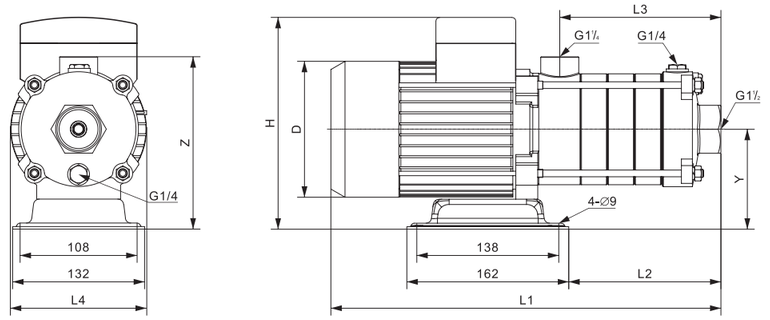


Model	L1(mm)	L2(mm)	Z(mm)	Y(mm)	L3(mm)	H(mm)	D(mm)	L4(mm)	Weight (kg)
BWJ2-2	321	79	173	100	87	203	140	140	9
BWJ2-3	339	97	173	100	105	203	140	140	10
BWJ2-4	357	115	173	100	123	203	140	140	11
BWJ2-5	375	133	173	100	141	203	140	140	11
BWJ2-6	440	158	183	110	159	223	158	158	16

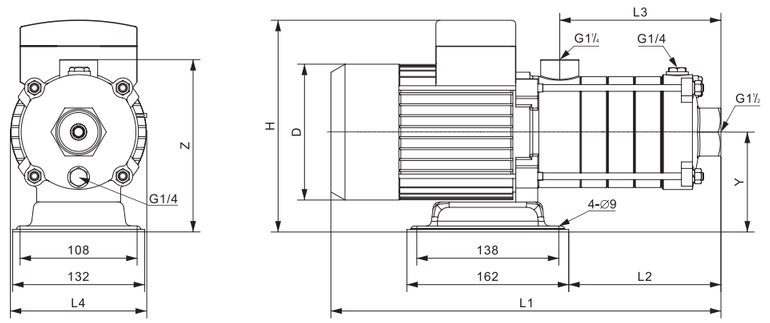


Model	L1(mm)	L2(mm)	Z(mm)	Y(mm)	L3(mm)	H(mm)	D(mm)	L4(mm)	Weight (kg)
BWJ4-2	340	98	173	100	106	203	140	140	10
BWJ4-3	367	125	173	100	133	203	140	140	11
BWJ4-4	441	159	183	110	160	223	158	158	14
BWJ4-5	469	187	184	111	188	223	158	158	18
BWJ4-6	496	214	184	111	215	223	158	158	18

Dimensions & Weight

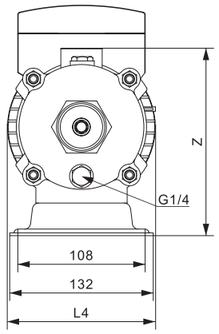


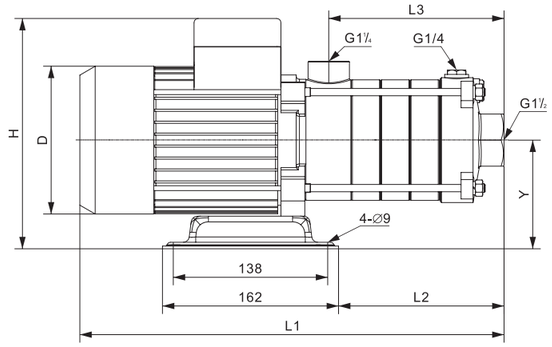
Model	L1(mm)	L2(mm)	Z(mm)	Y(mm)	L3(mm)	H(mm)	D(mm)	L4(mm)	Weight (kg)
BWJ8-2	405	120	223	118	108	230	158	158	18
BWJ8-3	437	152	223	118	140	230	158	158	20
BWJ8-4	492	183	223	118	172	232	168	168	25
BWJ8-5	524	215	223	118	204	232	168	168	27



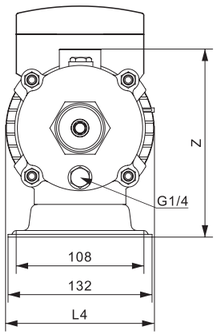
Model	L1(mm)	L2(mm)	Z(mm)	Y(mm)	L3(mm)	H(mm)	D(mm)	L4(mm)	Weight (kg)
BWJ12-2	405	120	223	118	108	230	158	158	20
BWJ12-3	460	151	223	118	140	232	168	168	24
BWJ12-4	492	183	223	118	172	232	168	168	28
BWJ12-5	556	209	235	130	204	262	196	196	33

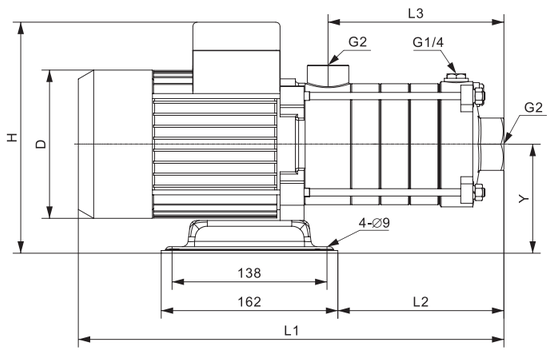
Dimensions & Weight





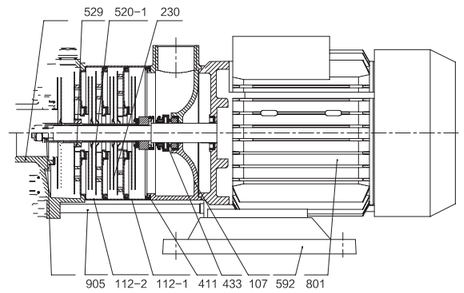
Model	L1(mm)	L2(mm)	Z(mm)	Y(mm)	L3(mm)	H(mm)	D(mm)	L4(mm)	Weight (kg)
BWJ16-2	441	132	223	118	121	232	168	168	23
BWJ16-3	518	213	235	130	166	262	196	196	29





Model	L1(mm)	L2(mm)	Z(mm)	Y(mm)	L3(mm)	H(mm)	D(mm)	L4(mm)	Weight (kg)
BWJ20-1	391	106	223	118	85	230	158	158	18
BWJ20-2	459	150	223	118	130	232	168	168	23
BWJ20-3	536	189	235	130	175	262	196	196	33

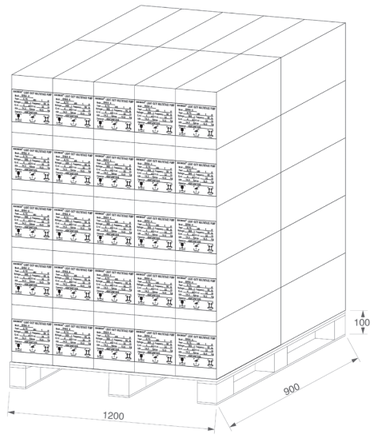
Components & Materials

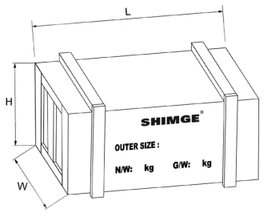


No.	Component	Material
106	Water inlet shell	304
107	Water outlet shell	304
112-1	Deflector	304
112-2	With bearing deflector	304
230	impeller	304
411	Sealing washer	Rubber, highland barley paper
433	Mechanical seal	Assembly
520-1	Oblong sleeve	304
529	Bearing inner race	YN20
540	bushing	304
592	base	Q235A
801	electric machinery	Horizontal motor (extended shaft)
905	pull rod	45 # chrome plating

Packing Sizes & Weight

BWJ				
Model	Dim.(mm)			G.W.(kg)
	L	W	H	
BWJ2-2	390	245	305	10
BWJ2-3	390	245	305	11
BWJ2-4	390	245	305	12
BWJ2-5	390	245	305	12
BWJ2-6	550	245	305	18
BWJ4-2	390	245	305	11
BWJ4-3	390	245	305	12
BWJ4-4	550	245	305	16
BWJ4-5	550	245	305	20
BWJ4-6	550	245	305	20
BWJ8-2	635	280	330	20
BWJ8-3	635	280	330	22
BWJ8-4	635	280	330	27
BWJ8-5	635	280	330	29
BWJ12-2	635	280	330	22
BWJ12-3	635	280	330	26
BWJ12-4	635	280	330	30
BWJ12-5	635	280	330	35
BWJ16-2	635	280	330	25
BWJ16-3	635	280	330	31
BWJ20-1	635	280	330	20
BWJ20-2	635	280	330	25
BWJ20-3	635	280	330	35





Fully integrated pump variable frequency pump

BWE

BLE

Model Instruction

BW (J) E 2 - 6

- 6 — Number of stages of pump
- 2 — Single-pump capacity (m^3/h)
- E — Code of fully-integrated intelligent variable-frequency series
- BW (J) — Water pump model: BL (T)-Vertical/BW-Horizontal/BWJ-Sectional

Product Overview

The fully-integrated intelligent variable-frequency pump is a new generation of equipment for pressurized water supply, highly integrated by the newly-developed frequency controllers and water pumps and pressure tanks of the Company, presenting a beautiful appearance and reaching an international advanced level. Such pump has capacities of artificial intelligence and automatic adjustment to meet the user's demand for constant-pressure and variable-frequency water supply, which can help to keep constant the pressure of the water supply network and the whole system always at the best energy-efficient state.

Application

◎ Domestic water for residents: pressurization on the roof of high-rise buildings, apartments, and villas etc.
◎ Public places: schools, restaurants, stations, hospitals, and stadiums etc.
◎ Commercial buildings: hotels, office buildings, and department stores etc.
◎ Irrigation: farms, fruit gardens, and parks etc.
◎ Industry: manufacturing, food industry, industrial water, and other places needing constant-pressure water supply etc.

Applications Fields

◎ Operating voltage: AC220V±10% at 50HZ, with phase-to-phase imbalance less than 2%;
◎ Ambient temperature: -5° C ~ 40° C;
◎ Altitude of installation site: no higher than 1,000m;
◎ Ambient humidity: 10-90%RH (non-condensing);
◎ No medium with explosion hazard in ambient air and no medium containing any gas or conductive dust which can corrode metal or damage insulation; application in environment of which the pollution degree is 2.

Certificate

CE

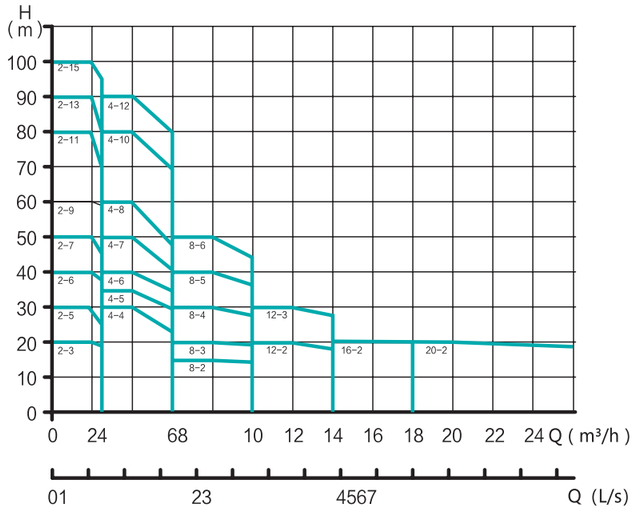
Functions

◎ When using water, the system will present its constant-pressure and variable-frequency control, while it will automatically maintain pressure and stop in case of no water used.
◎ The fluctuation range of the operating pressure of variable-frequency pump shall be no more than 0.01MPa.
◎ The pump will stop working in case of idling without water.
◎ It is able to inspect several faults concerning disconnection, overcurrent, overload, and grounding.

Features

◎ Frequency converter: IP65, safe and reliable
◎ High level of integration: The water pump is integrated with the frequency converter, so it is small in size and can be installed easily and save space.
◎ Full-automatic control: The product can automatically adjust its operating state on the basis of the pressure of the network of the user, to achieve its best working state and make the system energy-saving. When no water is used, automatic pressure maintenance and sleep will be realized and, therefore, the energy-saving effect is quite obvious. In case of failure of water pump, real-time tracking, judgement, and treatment will be carried out automatically.
◎ Easy and convenient operation: The man-machine interaction can be achieved directly via the keys and the display on the frequency converter. The user can make settings relating to pressure on the basis of its actual operating conditions and obtain the relevant information. In the event of any abnormality, the information about such an abnormality can be got as well.
◎ Constant-power operation: When the controller reaches the power limit, adjustment will be done on the basis of the actual operation, so as to keep the output power unchanged and protect the motor on the premises that the water consumption by the user is guaranteed to the greatest extend.

Equipment spectrum



Action Description

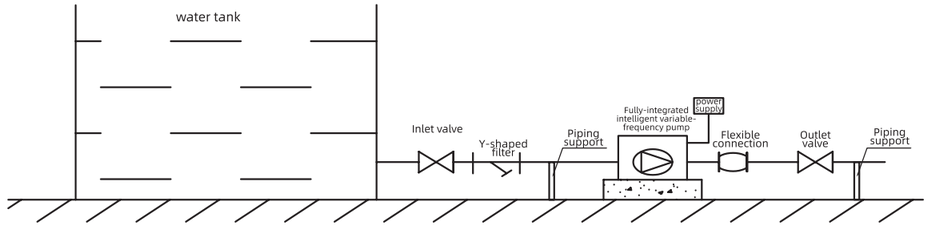
◎ The automatic identification module senses the pressure of the system via a pressure sensor and compares it with the set pressure, and then outputs a continuous analog signal to the frequency converter which changes the operating frequency of the motor on the basis of the change of the analog signal, to finally meet the demand for constant-pressure water supply. When the user's water consumption is large, the rotational speed will increase automatically and the power will be increased accordingly to satisfy the demand for constant-pressure water supply. If no water is used, the system will go to sleep automatically after the set pressure is reached. Where the user uses little water or the water pressure decreases to 80% due to leakage of the piping, the frequency controller will send out a signal to order the motor to operate and then make up for pressure until the set pressure is reached again, to maximize energy saving.

Performance Parameters

No	Model	Input voltage	Constant pressure value set (Bar)	The factory set constant value (rated pressure) Bar	Inlet diameter	Outlet diameter	Single pump power	The highest lift (zero flow) m	Rated flow m^3/h	Pressure tank volume L
A01	BWE2-6	220V/380V	0.5-4	4	G1	G1	0.75	56	2	3
A02	BWE4-4	220V/380V	0.5-3	3	G1¼	G1	0.75	38	4	3
A03	BWE8-2	220V/380V	0.5-1.5	1.5	G2	G2	0.75	22	8	5
A04	BWE8-3	220V/380V	0.5-2	2	G2	G2	1.1	32	8	5
A05	BWE8-4	220V/380V	0.5-3	3	G2	G2	1.5	43	8	5
A06	BWE8-5	220V/380V	0.5-4	4	G2	G2	2.2	54	8	5
A07	BWE12-2	220V/380V	0.5-2	2	G2	G2	1.2	23	12	5
A08	BWE12-3	220V/380V	0.5-3	3	G2	G2	1.8	35	12	5
A09	BWE16-2	220V/380V	0.5-2	2	G2	G2	2.2	27	16	5
A10	BWE20-1	220V/380V	0.5-1	1	G2	G2	1.1	13	20	5
A11	BWE20-2	220V/380V	0.5-2	2	G2	G2	2.2	26.5	20	5
A12	BWJE2-6	220V/380V	0.5-4	4	G1	G1	0.75	56	2	3
A13	BWJE4-4	220V/380V	0.5-3	3	G1¼	G1	0.75	38	4	3
A14	BWJE4-5	220V/380V	0.5-3.5	3.5	G1¼	G1	1.1	47	4	3
A15	BWJE4-6	220V/380V	0.5-4.5	4.5	G1¼	G1	1.1	57	4	3
A16	BWJE8-2	220V/380V	0.5-1.5	1.5	G1 ½	G1¼	0.75	22	8	5
A17	BWJE8-3	220V/380V	0.5-2	2	G1 ½	G1¼	1.1	32	8	5
A18	BWJE8-4	220V/380V	0.5-3	3	G1 ½	G1¼	1.5	43	8	5
A19	BWJE8-5	220V/380V	0.5-4	4	G1 ½	G1¼	2.2	54	8	5
A20	BWJE12-2	220V/380V	0.5-2	2	G1 ½	G1¼	1.2	23	12	5
A21	BWJE12-3	220V/380V	0.5-3	3	G1 ½	G1¼	1.8	35	12	5
A22	BWJE16-2	220V/380V	0.5-2	2	G1 ½	G1¼	2.2	27	16	5
A23	BWJE20-1	220V/380V	0.5-1	1	G2	G2	1.1	13	20	5
A24	BWJE20-2	220V/380V	0.5-2	2	G2	G2	2.2	26.5	20	5
B01	BL(T)E2-6	220V/380V	0.5-4	4	G1	G1	0.75	58	2	3
B02	BL(T)E2-7	220V/380V	0.5-5	5	G1	G1	0.75	68	2	3
B03	BL(T)E2-9	220V/380V	0.5-6	6	G1	G1	1.1	87	2	5
B04	BL(T)E2-11	220V/380V	0.5-8	8	G1	G1	1.1	106	2	5
B05	BL(T)E2-13	220V/380V	0.5-9	9	G1	G1	1.5	124	2	5
B06	BL(T)E2-15	220V/380V	0.5-10	10	G1	G1	1.5	138	2	5
B07	BL(T)E4-4	220V/380V	0.5-3	3	G1 ¼	G1 ¼	0.75	38	4	3
B08	BL(T)E4-5	220V/380V	0.5-3.5	3.5	G1 ¼	G1 ¼	1.1	47	4	3
B09	BL(T)E4-6	220V/380V	0.5-4	4	G1 ¼	G1 ¼	1.1	58	4	3
B10	BL(T)E4-7	220V/380V	0.5-5	5	G1 ¼	G1 ¼	1.5	69	4	3
B11	BL(T)E4-8	220V/380V	0.5-6	6	G1 ¼	G1 ¼	1.5	78	4	5
B12	BL(T)E4-10	220V/380V	0.5-8	8	G1 ¼	G1 ¼	2.2	96	4	5
B13	BL(T)E4-12	220V/380V	0.5-9	9	G1 ¼	G1 ¼	2.2	117	4	5
B14	BL(T)E8-2	220V/380V	0.5-1.5	1.5	G1 ½	G1 ½	0.75	22	8	5
B15	BL(T)E8-3	220V/380V	0.5-2	2	G1 ½	G1 ½	1.1	32	8	5
B16	BL(T)E8-4	220V/380V	0.5-3	3	G1 ½	G1 ½	1.5	42	8	5
B17	BL(T)E8-5	220V/380V	0.5-4	4	G1 ½	G1 ½	2.2	53	8	5
B18	BL(T)E8-6	220V/380V	0.5-5	5	G1 ½	G1 ½	2.2	62	8	5
B19	BL(T)E12-2	220V/380V	0.5-2	2	G2	G2	1.5	26	12	5
B20	BL(T)E12-3	220V/380V	0.5-3	3	G2	G2	2.2	38	12	5
B21	BL(T)E16-2	220V/380V	0.5-2	2	G2	G2	2.2	28	16	5
B22	BL(T)E20-2	220V/380V	0.5-2	2	G2	G2	2.2	30	20	5

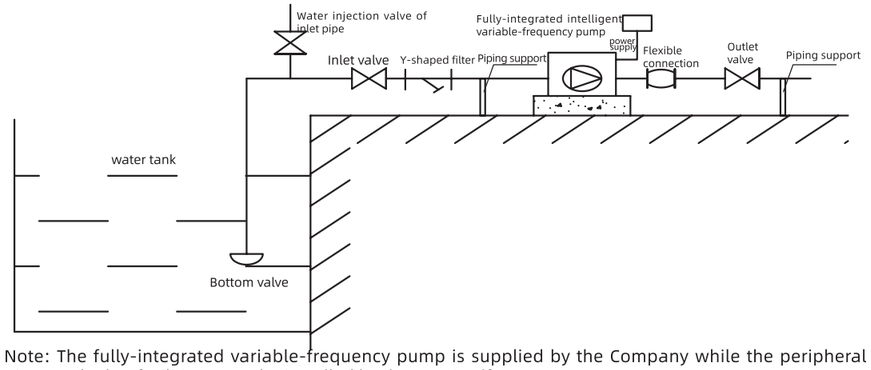
Installation Diagram

Positive-pressure Water Inlet :



Note: The fully-integrated variable-frequency pump is supplied by the Company while the peripheral pipes and other facilities are to be installed by the user itself.

Negative-pressure Water Inlet :



Note: The fully-integrated variable-frequency pump is supplied by the Company while the peripheral pipes and other facilities are to be installed by the user itself.

Instructions for Installation

◎ When the pump is installed indoors, there should be no water drop, metal dust, oily dirt, corrosive/flammable gas or liquid, or electromagnetic signal interference. When installed outdoors, the pump should be sheltered.
◎ The assembling floor of the variable-frequency pump must be firm, without any split or sink.
◎ The equipment should be installed with positive pressure at the inlet while installation with negative-pressure suction should be avoided to the greatest extent. In case negative-pressure installation is required, please select a bottom valve with good quality and carry out regular overhauls.
◎ The diameter of the inlet pipe and the outlet pipe to be connected with the variable-frequency pump should be greater than the diameter of the variable-frequency pump itself.
◎ Please check whether the provided power supply complies with the requirement of the variable-frequency pump for the power supply at the incoming line.
◎ During installation, the user should furnish the inlet and the outlet valves of the variable-frequency pump and the relevant flexible connections so as to facilitate repairs and prevent noise from passing through piping.
◎ If installation is made with positive pressure at the inlet, please open the vent valve of the water pump and discharge the air prior to use. Do not tighten the vent valve until there is water flowing out. In case of installation made with negative pressure at the inlet, please fill the suction pipe with water prior to use (there should be a filling valve at the suction pipe) and start up the pump after the chamber of the water pump is full of water.

Reference for Model Selection

Computational method of maximum water consumption

No	Accessories for water supply	Rated flow (L/s)	Equivalent	Nominal diameter of connecting pipe (mm)	Minimum operating pressure (MPa)
1	Washtub, mop basin, washbasin Single-valve faucet Single-valve faucet Mixed-water faucet	0.15 ~ 0.20 0.30 ~ 0.40 0.15 ~ 0.20(0.14)	0.75 ~ 1.00 1.5 ~ 2.00 0.75 ~ 1.00(0.70)	15 20 15	0. 050
2	Washbasin Single-valve faucet Mixed-water faucet	0.15 0.15 (0.10)	0.75 0.75(0.50)	15 15	0. 050
3	Washbasin Sensor faucet Mixed-water faucet	0.10 0.15(0.10)	0.50 0.75(0.5)	15 15	0. 050
4	Bathtub Single-valve faucet Mixed-water faucet (including converter with shower)	0.20 0.24(0.20)	1.00 1.2(1.0)	15 15	0. 050 0. 050 ~ 0.0 70
5	Shower Mixing valve	0.15(0.10)	0.75(0.50)	15	0. 050 ~ 0.100
6	Closet pan Float valve of flushing cistern Delay-driven self-closing flush valve	0.10 1.20	0.50 6.00	15 25	0.020 0.10 ~ 0.15
7	Urinal Manual or automatic self-closing flush valve Inlet valve of automatic flushing cistern	0.10 0.10	0.50 0.50	15 15	0. 050 0. 020
8	Perforated flushing pipe of urinal (in m)	0.05	0.25	15 ~ 20	0. 015
9	Faucet of bidet	0.10(0.07)	0.50(0.35)	15	0. 050
10	Pan closet used in a hospital	0.10(0.07)	1.00	15	0. 050
11	Gooseneck-type faucet for testing in a laboratory Single-linkage Double-linkage Triple-linkage	0.07 0.15 0.20	0.35 0.75 1.00	15 15 15	0. 020 0. 020 0. 020
12	Nozzle of drinking fountain	0.05	0.25	15	0. 050
13	Sprinkler	0.40 0.70	2.00 3.50	20 25	0.0 50 ~ 0.100 0.050 ~ 0.100
14	Flushing faucet for indoor ground	0.20	1.00	15 15	0. 050
15	Faucet of domestic washing machine	0.20	1.00	15 15	0. 050

Note:

◎ A value inside brackets in the table is to be used for the independent calculation relating to cold water or hot water, when there is hot water supply.
◎ When a shower is attached to a bathtub or a mixed-water faucet is provided with a shower converter, then for the calculation of the rated flow and the equivalent, only the faucet should be included. However, the computation of water pressure shall be based on the shower.
◎ The water pressure needed by a domestic gas water heater should be determined on the basis of the requirement of the product and the operating pressure needed by the most unfavorable water distribution point of the hot water supply system.
◎ The automatic sprinkling irrigation of a green belt should be designed in accordance with the requirement of the product.
◎ When there are special requirements for the rated flow and the minimum operating pressure needed by the water supply accessories of sanitary fixtures, their values should be determined as per the requirement of the product (how to determine the equivalence when the requirement of the product is determined).
◎ Calculation of maximum water consumption
L=Number of single-valve faucets * Rated flow + Mixed-water faucet * Rated flow +•••••••+ Number of domestic washing machines * Rated flow
The unit of L to be calculated should be "L/S" , converted into t/h by multiplying 3.6 (for the rated flow, please refer to Table I).

Calculation of minimum pressure

The minimum pressure should be the pressure calculated from the suction surface of the water pump, plus the minimum necessary pressure for the highest sanitary fixture used.
The minimum pressure used by the water supply equipment (Mpa) ≈ 1/100*(hg+hf)+pe
Ha: the actual lift from the suction surface to the highest fixture (m);
Hf: the loss of the piping and the bending, to be calculated as 6m-10m;
Pe: the minimum necessary pressure of the highest sanitary fixture (please refer to Table I).

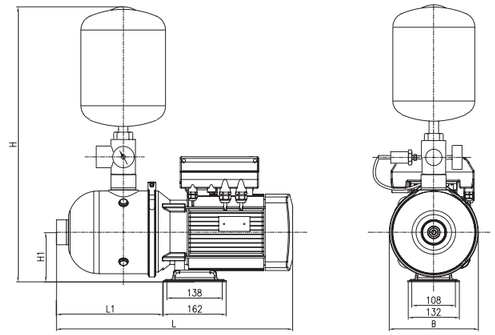
For example:

There is a small hotel four-storeyed above the ground, about 12m high (calculated from the suction surface), including 12 rooms. Each room is equipped with one closet plan, one washbasin (with a mixed-water faucet), and one shower (with a mixed-water faucet). In addition, the hotel has one faucet for domestic washing machines, four flushing faucets for indoor ground, and four faucets of drinking fountains. Please calculate the flow and the lift of the equipment to be selected.

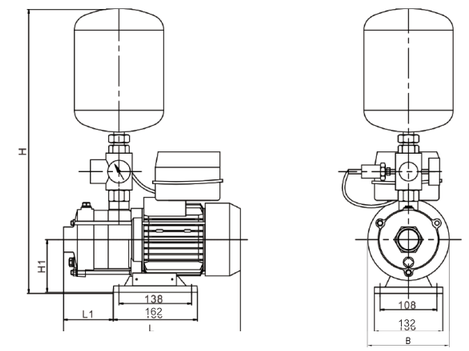
Answer:

Calculation of the maximum water consumption:
Maximum water consumption=3.6{12 (1*0.1+1*0.15+1*0.24) +1*0.2+4*0.2+4*0.05}=6.084t/h
Calculation of the minimum pressure:
Minimum pressure ≈ 1/100* (12+10) +0.07=0.29 Mpa
Ha: the actual lift from the suction surface to the highest sanitary fixture, 12m;
Hf: the head loss of the piping and the bending, taking 10m;
Pe: the minimum operating pressure of the shower, 0.7bar.
Note: 1bar ≈ 1kg/cm2 =0.1Mpa; 1Mpa is approximately equal to 100m lift of the water pump.
When equipment is selected, the total flow of the selected equipment should be the maximum water consumption and the lift should be no less than the minimum pressure calculated. Please refer to the Equipment Spectrum.

Overall Dimensions of Variable-frequency Pump

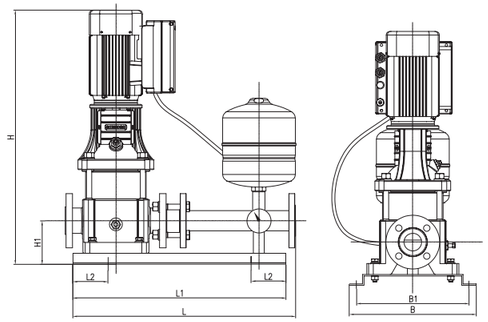


Model	L (mm)	L1 (mm)	B (mm)	H1 (mm)	H (mm)	N.W (kg)	G.W (kg)
BWE2-6	422	157	166	112	530	19	21.5
BWE4-4	422	157	166	112	530	19	21.5
BWE8-2	534	268	228	118	626	19	22.3
BWE8-3	534	268	228	118	626	25	28.3
BWE8-4	572	268	228	118	626	29	32.3
BWE8-5	572	268	228	118	626	33	36.3
BWE12-2	534	268	228	118	626	25	28.3
BWE12-3	572	268	228	118	626	29	32.3
BWE16-2	572	268	228	118	626	32	35.3
BWE20-1	534	268	228	118	626	25	28.3
BWE20-2	572	268	228	118	626	33	36.3

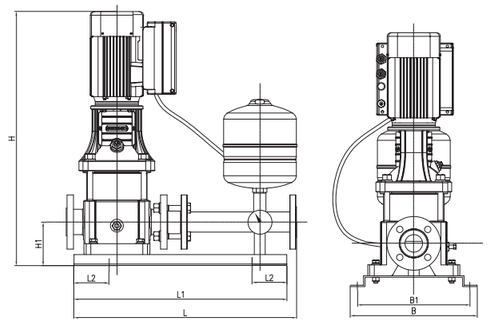


Model	L (mm)	L1 (mm)	B (mm)	H1 (mm)	H (mm)	N.W (kg)	G.W (kg)
BWJE2-6	440	158	158	110	498	20	22.8
BWJE4-4	441	159	158	110	498	19	21.5
BWJE4-5	468	186	158	110	498	22	25
BWJE4-6	495	213	158	110	498	23	25.5
BWJE8-2	405	120	158	118	568	23	26.7
BWJE8-3	437	152	158	118	568	25	28.8
BWJE8-4	492	183	168	118	568	30	33.3
BWJE8-5	524	215	168	118	568	32	35.9
BWJE12-2	405	120	158	118	568	26	29.3
BWJE12-3	460	151	168	118	568	31	34.3
BWJE16-2	441	132	168	118	568	34	37.9
BWJE20-1	391	106	158	118	583	26	29.3
BWJE20-2	459	150	168	118	583	31	34.3

Overall Dimensions of Variable-frequency Pump



Model	L (mm)	L1 (mm)	L2 (mm)	B (mm)	B1 (mm)	H (mm)	H1 (mm)	N.W.(kg)		G.W.(kg)	
								BL	BLT	BL	BLT
BL(T)E2-6	600	550	100	320	280	625	80	37	43	52	58
BL(T)E2-7	600	550	100	320	280	643	80	37	43	52	58
BL(T)E2-9	600	550	100	320	280	679	80	40	46	57	63
BL(T)E2-11	600	550	100	320	280	715	80	41	47	58	64
BL(T)E2-13	600	550	100	320	280	809	80	44	51	63	70
BL(T)E2-15	600	550	100	320	280	845	80	45	51	64	70
BL(T)E4-4	600	550	100	320	280	625	80	37	44	52	59
BL(T)E4-5	600	550	100	320	280	652	80	39	46	54	61
BL(T)E4-6	600	550	100	320	280	679	80	40	47	57	64
BL(T)E4-7	600	550	100	320	280	764	80	43	51	61	69
BL(T)E4-8	600	550	100	320	280	791	80	44	51	62	69
BL(T)E4-10	600	550	100	320	280	845	80	48	55	66	73
BL(T)E4-12	600	550	100	320	280	899	80	49	57	69	77



Model	L (mm)	L1 (mm)	L2 (mm)	B (mm)	B1 (mm)	H (mm)	H1 (mm)	N.W.(kg)		G.W.(kg)	
								BL	BLT	BL	BLT
BL(T)E8-2	750	700	100	360	320	650	120	53	63	72	82
BL(T)E8-3	750	700	100	360	320	680	120	55	65	74	84
BL(T)E8-4	750	700	100	360	320	760	120	59	69	80	90
BL(T)E8-5	750	700	100	360	320	790	120	63	73	84	94
BL(T)E8-6	750	700	100	360	320	820	120	64	74	85	95
BL(T)E12-2	750	700	100	360	320	713	120	59	69	80	90
BL(T)E12-3	750	700	100	360	320	745	120	62	72	83	93
BL(T)E16-2	750	700	100	360	320	740	120	62	73	83	94
BL(T)E20-2	750	700	100	360	320	740	120	64	74	85	95

Packing Sizes & Weight

Model	Dim.(mm)(LxWxH)
BWE2-6	520×260×590
BWE4-4	
BWE8-2	660×290×700
BWE8-3	
BWE8-4	
BWE8-5	
BWE16-2	
BWJE2-6	520×260×590
BWJE4-4	
BWJE4-5	580×260×570
BWJE4-6	
BWJE8-2	660×290×700
BWJE8-3	
BWJE8-4	
BWJE8-5	
BWJE16-2	
BL(T)E2-6	800×330×670
BL(T)E2-7	
BL(T)E2-9	800×330×740
BL(T)E2-11	
BL(T)E2-13	800×330×870
BL(T)E2-15	
BL(T)E4-4	800×330×670
BL(T)E4-5	
BL(T)E4-6	800×330×740
BL(T)E4-7	800×330×870
BL(T)E4-8	
BL(T)E4-10	
BL(T)E4-12	800×330×920
BL(T)E8-2	900×360×720
BL(T)E8-3	
BL(T)E8-4	900×360×870
BL(T)E8-5	
BL(T)E8-6	
BL(T)E12-2	
BL(T)E12-3	
BL(T)E16-2	
BL(T)E20-2	

PLD economical vertical multistage pump

PL(D)

Model Instruction

PL (D) 2 - 2

- Number of pump stages
- Rated flow
- Single phase (three phase not marked)
- Vertical multistage centrifugal pump

Performance range

◎ max lift: 153 m;
◎ Max flow: 6m³ / h;

Conditions

◎ The temperature of the medium does not exceed +60 ° C;
◎ The ambient temperature does not exceed +40 ° C;
◎ The PH value of the medium is between 6.5 and 8.5, the volume ratio of solid impurities in the medium is ≤ 0.1%, and the particle size is ≤ 0.2mm.
◎ The maximum working pressure is 15 bar;
◎ The highest altitude is 1000m;

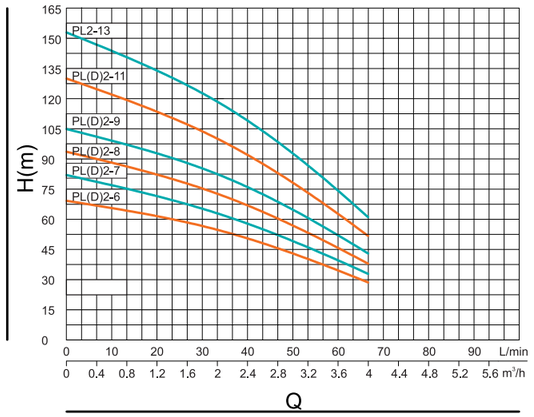
Applications

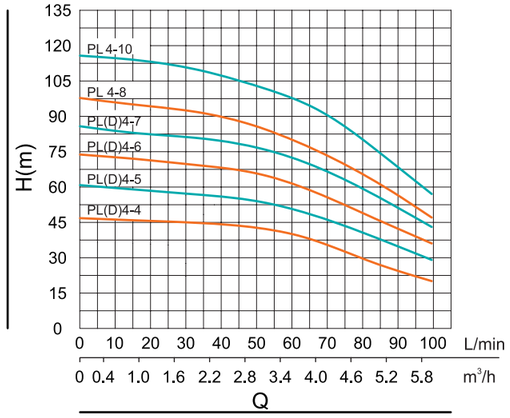
The product has the characteristics of high cost-effective, high pressure and low noise,etc.PL(D) are widely used in many fields,such as water supply system and water filtration and boost systemn for pipeling,washing and cleaning ,boiler feed water,cooling water circulation,water treatment,ultra-filtration,reveser osmosis systems,water fertilizer integrated machine ,etc.

Functions

◎ pump seat / coupling / back cover / inlet pipe: cast iron;
◎ Axis: 304+45 friction welding;
◎ impeller / guide vane: PPO + GF30
◎ Case: YL102
◎ pump barrel: 304
◎ junction box: ABS
◎ mechanical seal: silicon carbide / graphite / nitrile rubber;
◎ Bearing: 6305-2RS / human, 6204-2RS / human, contact sealed;
◎ Motor: 2-pole asynchronous motor, copper coil, fan cooling, continuous operation.
◎ protection level: IP 55;
◎ Insulation class: F.

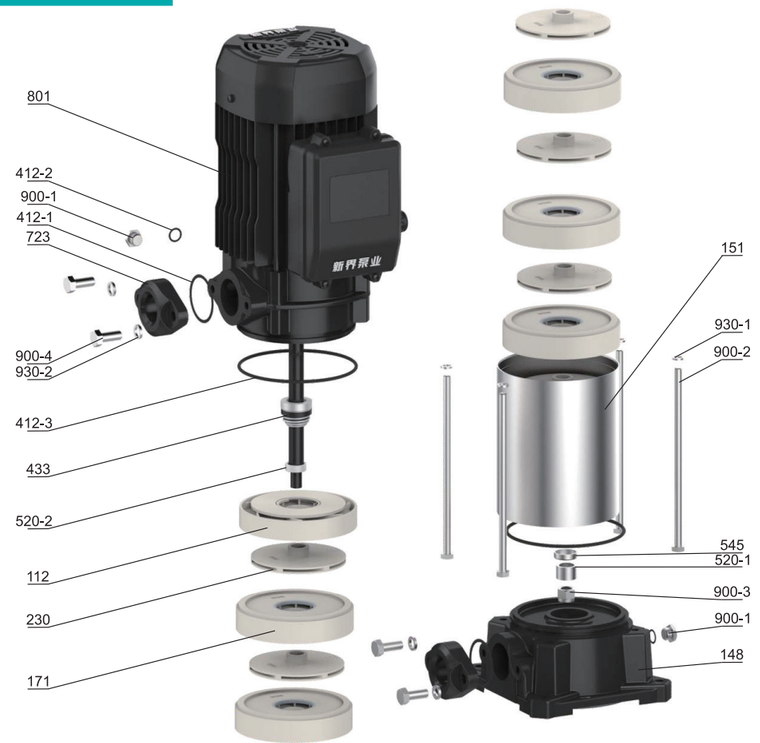
Performance curve





Model		Power		Q (m³/h)	0	1	2	3	4	5	6
Single-phase	Three phase	kW	HP		0	16.7	33.3	50	66.7	83.3	100
PLD2-6	PL2-6	1.1	1.5	H(m)	69	65	53	45	18	-	-
PLD2-7	PL2-7	1.1	1.5		82	75	65.5	52	25	-	-
PLD2-8	PL2-8	1.5	2		94	87	73	59	28	-	-
PLD2-9	PL2-9	1.5	2		105	98	84	67	35	-	-
PLD2-11	PL2-11	1.8	2.4		130	119	102	82	37	-	-
-	PL2-13	2.2	3		153	142	122	97	39	-	-
PLD4-4	PL4-4	1.1	1.5		47	46	45	41	39	28	20
PLD4-5	PL4-5	1.5	2		61	58	57	55	48	39	29
PLD4-6	PL4-6	1.5	2		74	72	69	66	58	47	36
PLD4-7	PL4-7	1.8	2.4		86	83	81	77	69	57	43
-	PL4-8	2.2	3		98	95	92	86	77	63	47
-	PL4-10	2.2	3		116	114	110	102	96	73	57

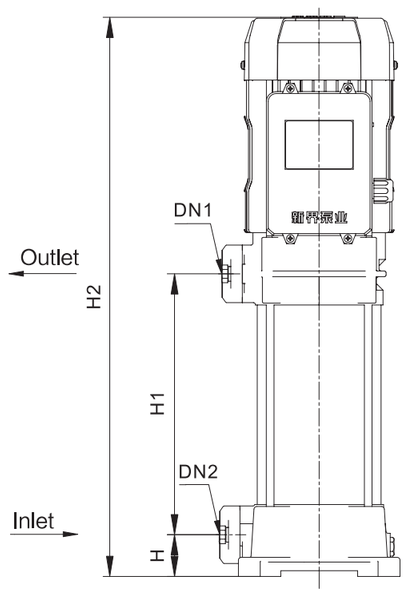
Components & Materials

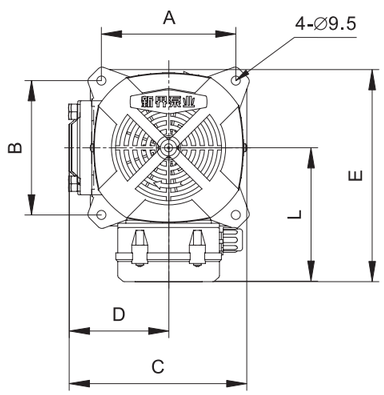


No.	Component	No.	Component
112	Last-stage guide vane	520-2	Shaft sleeve
148	Pump seat	545	Plastic bearing
151	Pump cylinder	723	Inlet and outlet pipes
171	Guide vane	801	Motor
230	Impeller	900-1	Air release plug
412-1	O-ring	900-2	Hexagon head bolt
412-2	O-ring	900-3	Type 1 non-metallic insert hex lock nut
412-3	0-ring	900-4	Hexagon head bolt with full thread
433	Mechanical seal	930-1	Standard spring washer
520-1	Wear-resistant shaft sleeve	930-2	Spring washer

Product appearance size

Model		DN1	DN2	H	H1	H2	A	B	C	D	E	L
Single-phase	Three phase	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
PLD2-6	PL2-6	G1	G1	43.5	224.5	536.5	140	140	185	103.5	221	139.5
PLD2-7	PL2-7				248.5	560.5						
PLD2-8	PL2-8				272.5	584.5						
PLD2-9	PL2-9				296.5	608.5						
PLD2-11	PL2-11				344.5	656.5						
-	PL2-13				392.5	704.5						
PLD4-4	PL4-4				176.5	487						
PLD4-5	PL4-5				200.5	511						
PLD4-6	PL4-6				224.5	535						
PLD4-7	PL4-7				248.5	559						
-	PL4-8				272.5	583						
-	PL4-10				320.5	631						

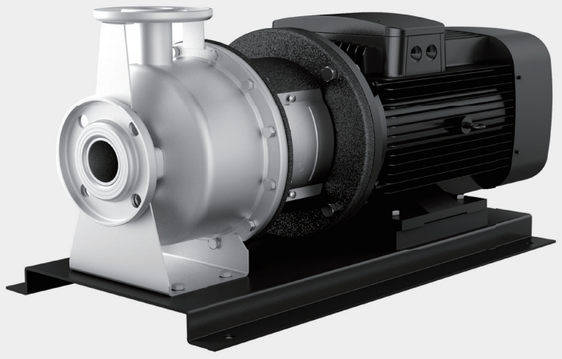




Packing Sizes & Weight

Model	Dim.(mm)(L*W*H)	N.W.(kg)	G.W.(kg)
PL2-6	595×240×270	21	21.5
PLD2-6		22	22.5
PL2-7	620×240×270	21.5	22
PLD2-7		22.5	23
PL2-8	645×240×270	23	23.5
PLD2-8		24.5	25
PL2-9	670×240×270	23.5	24
PLD2-9		25	25.5
PL2-11	715×240×270	25.5	26
PLD2-11		27	27.5
PL2-13	765×240×270	28	28.5
PL4-4	545×240×270	20	20.5
PLD4-4		21	21.5
PL4-5	570×240×270	22	22.5
PLD4-5		23	23.5
PL4-6	595×240×270	22	22.5
PLD4-6		23.5	24
PL4-7	620×240×270	24	24.5
PLD4-7		25.5	26
PL4-8	645×240×270	26	26.5
PL4-10	695×240×270	26.5	27

YS Series Stainless Steel Single Stage Centrifugal Pump



YS

Model Instruction

YS 65 - 50 - 200 / 11.0

- 11.0 — Motor power (kW)
- 200 — Nominal diameter of impeller (mm)
- 50 — Diameter of outlet (mm)
- 65 — Diameter of inlet (mm)
- YS — Stainless steel horizontal single stage centrifugal pump

Product Overview

Made by adopting such advanced technologies as stamping, bulging and welding of stainlesssteel plates, YS stainless steel horizontal single stage centrifugal pump is a new generation of domestically initiative centrifugal pump, which can replace traditional IS pumps and general corrosion-resistance pumps. It has such features as good-looking appearance, lightweight structure, high efficiency and energy saving, robustness, resistance to light corrosion, and low noise.

Operating Conditions

■ The use of YS pump is restricted by the following conditions:

1. Clean, thin, and non-flammable & non-explosive liquid that does not contain solid particles and fibers;
2. Liquid at the temperature between -20° C and +100° C;
3. Maximum ambient temperature: +40° C;
4. Maximum altitude: 1000m;
5. Maximum system pressure :1.0MPa.

Structural Features

Motor

High efficiency and energy saving
Angular contact bearing is adopted at the drive end, so that the motor operates more safely with lower noise.

Pump body

Stainless steel stamping and welding
Good discharge capacity
Reliable hydraulic self-balancing

Pump cover

Professional style design
Heightened design, equipped with protective cover
Surface electrophoresis treatment
Good ventilation and heat dissipation

Pump cover

Sleeve coupling type
100,000 times of reliability testing
Stainless steel material
Dynamic balancing

Impeller

German casting technology
Efficient hydraulic design
Stainless steel material

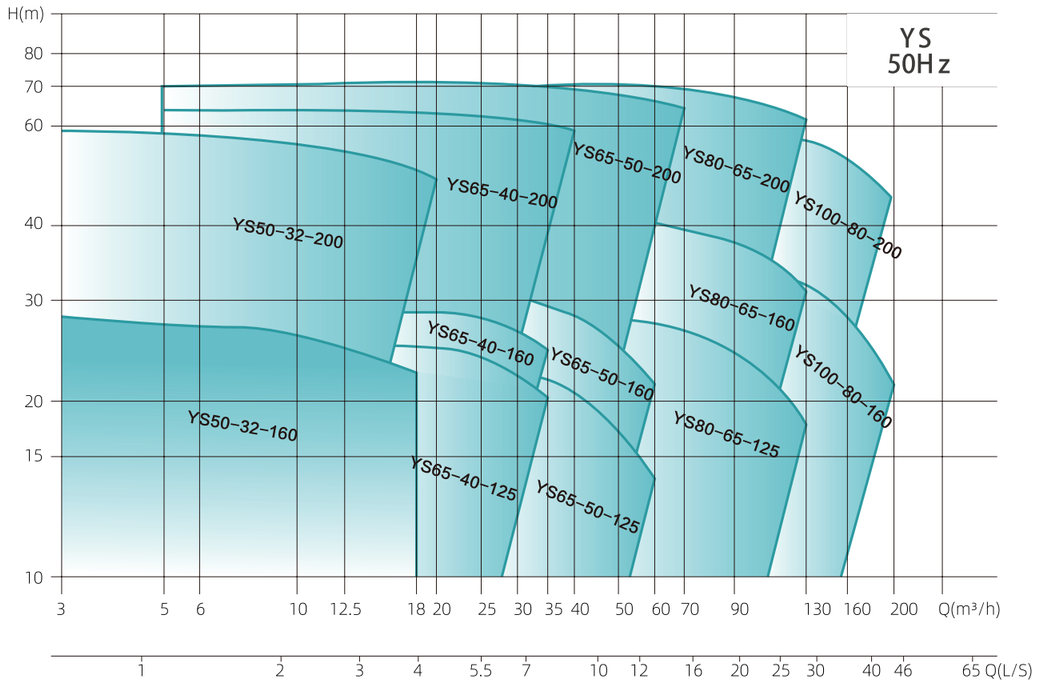
The international popular modular design is adopted to reduce the unnecessary parts and components, guarantee the universality of parts, and facilitate purchasing, manufacturing and maintenance.

Applications

YS stainless steel horizontal single stage centrifugal pump is a multi-functional product with a wide range of applications, which can convey various media including water or industrial liquids, applicable to different ranges of temperature, flow and pressure. Its typical applications mainly include the following:

- **Water supply: Filtering, transmission, sectionalized water supply, and manifold pressurization;**
- **Industrial pressurization: Process water system and cleaning system;**
- **Industrial liquid conveying: Boiler water supply, condensing system, cooling and air conditioning system, machine matching, and weak acid and alkali conveying;**
- **Water treatment: Distillation system or separator, and swimming pool, etc.;**
- **Farm irrigation, and medicine and health, etc.**

Spectrum Diagram

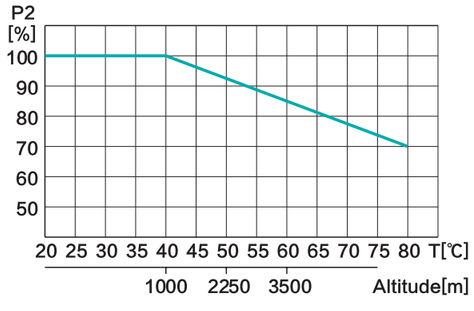


Spectrum Diagram

No.	Model	Flow rate (m^3/h)	Lift (m)	Rotating speed (r/min)	Standard motor voltage [V]	
					1×220V P_2 [kW]	3×380V P_2 [kW]
1	YS50-32-160/1.5	12.5	20	2900	/	1.5
2	YS50-32-160/2.2	12.5	25		/	2.2
3	YS50-32-200/3	12.5	32		/	3
4	YS50-32-200/4	12.5	42		/	4
5	YS50-32-200/5.5	12.5	54		/	5.5
6	YS65-40-125/1.5	25	13		/	1.5
7	YS65-40-125/2.2	25	18		/	2.2
8	YS65-40-125/3	25	24		/	3
9	YS65-40-160/4	25	28		/	4
10	YS65-40-200/5.5	25	36		/	5.5
11	YS65-40-200/7.5	25	46		/	7.5
12	YS65-40-200/11	25	62	2950	/	11
13	YS65-50-125/3	50	13	2900	/	3
14	YS65-50-125/4	50	18		/	4
15	YS65-50-160/5.5	50	25		/	5.5
16	YS65-50-200/7.5	50	32		/	7.5
17	YS65-50-200/9.2	50	40	2950	/	9.2
18	YS65-50-200/11	50	48		/	11
19	YS65-50-200/15	50	58		/	15
20	YS65-50-200/18.5	50	68		/	18.5
21	YS80-65-125/5.5	100	13	2900	/	5.5
22	YS80-65-125/7.5	100	18		/	7.5
23	YS80-65-125/9.2	100	23	2950	/	9.2
24	YS80-65-160/11	100	27		/	11
25	YS80-65-160/15	100	36		/	15
26	YS80-65-200/18.5	100	45		/	18.5
27	YS80-65-200/22	100	53		/	22
28	YS80-65-200/30	100	66		/	30
29	YS100-80-160/11	160	15		/	11
30	YS100-80-160/15	160	22		/	15
31	YS100-80-160/18.5	160	28		/	18.5
32	YS100-80-200/22	160	33		/	22

Motor

- Structure: All-series totally enclosed air-cooled three-phase asynchronous standard motor, in which single-phase motor is optional for the power range of 1.1kW ~ 2.2kW.
- Motor protection: Single-phase motor is equipped with the built-in thermal protector, and three-phase motor shall be connected to the motor starter according to local regulations.
- Ambient temperature: ≤ 40° C; in an environment above thistemperature, or when the motor is installed at an altitude above 1000m, due to the lower air density, the cooling effect of motor weakens, the loss of windings and iron core increases, and the operating efficiency reduces, resulting in the drop in the output power (P2) of motor; in this case, a motor with higher output power must be selected, as shown in Figure 1.



■ Figure 1 Relationship between motor output power (P2) and ambient temperature

IE2 Three-phase Motor

Rated power (kW)	Rated current(A)		Rated speed (r/min)	Power factor (cosϕ)	Efficiency (%)	Connection method	Standard motor voltage [V]
	380(V)	415(V)					
1.5	3.34	3.06	3000	0.84	81.3	Y	6205ZZ
2.2	4.73	4.33		0.85	83.2	Y	6205ZZ
3	6.19	5.67		0.87	84.6	Y	6206ZZ
4	8.05	7.37		0.88	85.8	△	6206ZZ
5.5	10.9	9.99		0.88	87.0	△	6308ZZ
7.5	14.5	13.3		0.89	88.1	△	6308ZZ
11	21.0	19.2		0.89	89.4	△	6309ZZ
15	28.4	26.0		0.89	90.3	△	6309ZZ
18.5	34.7	31.8		0.89	90.9	△	6309ZZ
22	41.1	37.7		0.89	91.3	△	6311ZZ
30	55.7	51.0		0.89	92.0	△	6312ZZ

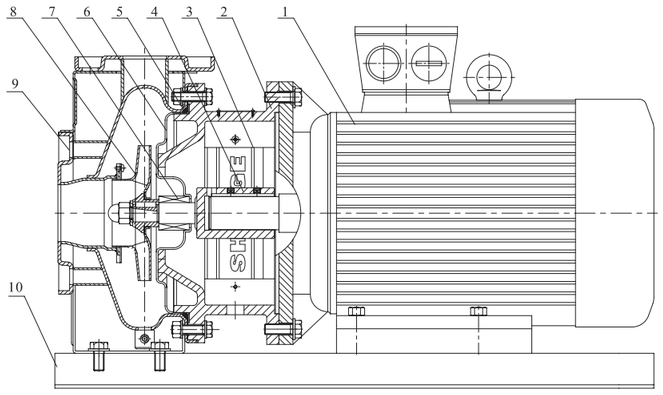
IE3 Three-phase Motor

Rated power (kW)	Rated current(A)		Rated speed (r/min)	Power factor (cosϕ)	Efficiency (%)	Connection method	Standard motor voltage [V]
	380(V)	415(V)					
1.5	3.22	2.95	3000	0.84	84.2	Y	6205ZZ
2.2	4.58	4.19		0.85	85.9	Y	6205ZZ
3	6.02	5.51		0.87	87.1	Y	6206ZZ
4	7.84	7.18		0.88	88.1	△	6206ZZ
5.5	10.65	9.75		0.88	89.2	△	6308ZZ
7.5	14.37	13.16		0.88	90.1	△	6308ZZ
11	20.59	18.85		0.89	91.2	△	6309ZZ
15	27.86	25.51		0.89	91.9	△	6309ZZ
18.5	34.18	31.3		0.89	92.4	△	6309ZZ
22	40.51	37.1		0.89	92.7	△	6311ZZ
30	54.89	50.26		0.89	93.3	△	6312ZZ

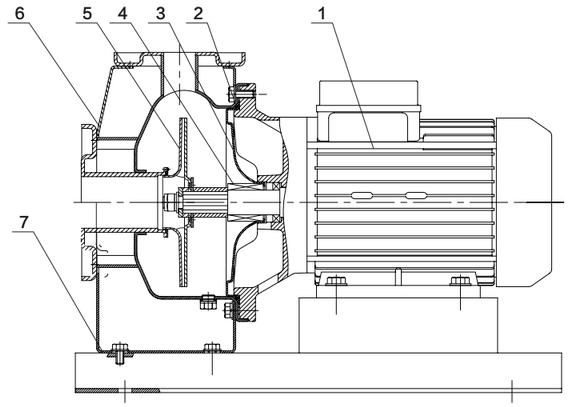
The product has two structures: integral structure for 1.5kW~4kW, and separated structure for 5.5kW and above; the separated structure is mainly composed of the five core components: pump body, impeller, pump cover, pump shaft, and motor, the motor is separable from the pump, the pump part is designed as the top pull-out structure, and all models are equipped with the standard motor and mechanical seal. The pump body is equivalent to a section of pipeline, and during the maintenance of pumps, the pump body can be sealed with the blank flange so as not to affect the normal operation of the system. The impeller is of an enclosed structure, and adopts the design of the twisted blade, which better ensures high hydraulic efficiency. The pump cover has the dual function of supporting the motor and sealing the pump body, and the seal between it and the pump body adopts the static seal "O-ring". The dimensions of inlet & outlet flanges of the pump meet the stipulations of such standards as GB/T 17241.6, ISO 7005-2 and DIN 2501

■ Sectional views of the product

■ Separated structure



No.	Component	Material
1	Motor	/
2	Pump cover	HT200
3	Protective plate	304
4	Pump shaft	304+45#
5	Rubber part	NBR
6	Baffle	304
7	Mechanical seal	FPM
8	Impeller	304
9	Pump body	304
10	Base	Q235A



■ Integral structure

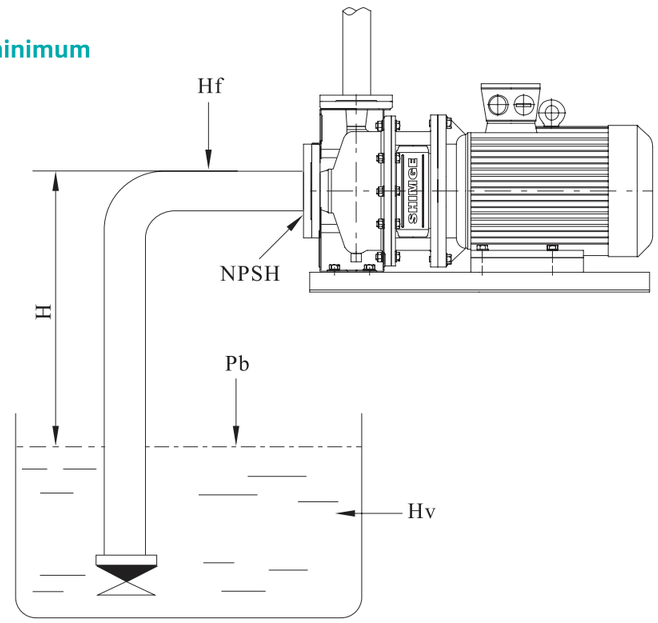
No.	Component	Material
1	Motor	/
2	Rubber part	NBR
3	Baffle	304
4	Mechanical seal	FPM
5	Impeller	304
6	Pump body	304
7	Base	Q235A

Installation Conditions

YS stainless steel horizontal single stage centrifugal pump adopts direct pump-shaft coupling, and it is composed of the pump, pump shaft and standard motor:

- **The pump shall be installed at a ventilated and anti-icing place;**
- **The pump shall be so properly installed as to ensure that it is not affected by the tension of the system pipeline in use;**
- **If the pump is installed outdoors, an appropriate outer cover must be provided to prevent water from entering or condensing in electrical components;**
- **In order to facilitate inspection and maintenance, enough space must be left around the unit;**
- **The electrical wiring device shall ensure that the pump is not damaged by phase loss, instable voltage, electrical leakage and overload;**
- **The pump shall be horizontally mounted on the base, the horizontal direction is the inlet of pump, and the vertical direction is the outlet of pump.**

■ Calculation of minimum inlet pressure



Inlet pressure: In order to ensure that the water pump is in the best operating state, and control the noise at the minimum level, the inlet pressure must be correctly calculated and set. If the pressure in the pump is lower than the vaporization pressure of the conveyed medium, cavitation will occur to the water pump, and in order to ensure a minimum pressure at the inlet of pump, the maximum suction height (m) can be calculated by the following formula:

H=Pb × 10.2-NPSH-Hf -Hv -Hs

Pb: Atmospheric pressure, unit: ba;

NPSH: Net positive suction height, unit: m (The specific value can be read from the numerical value corresponding to the maximum flow point of pump operation on the NPSH curve in the performance curves of corresponding models);

Hf: The inlet line loss at the maximum flow of pump operation, unit: m;

Hv: Vaporization pressure of liquid, unit: m (See the figure right for specific value);

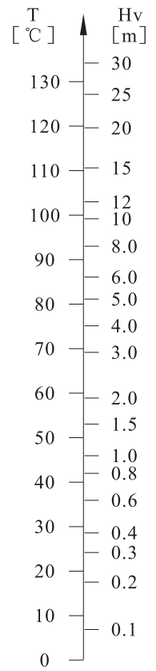
Hs: Safety margin, unit: m, usually it takes 0.5m.

When calculated by the formula above, if the "H" value is positive, it indicates that the pump can operate at this suction height.

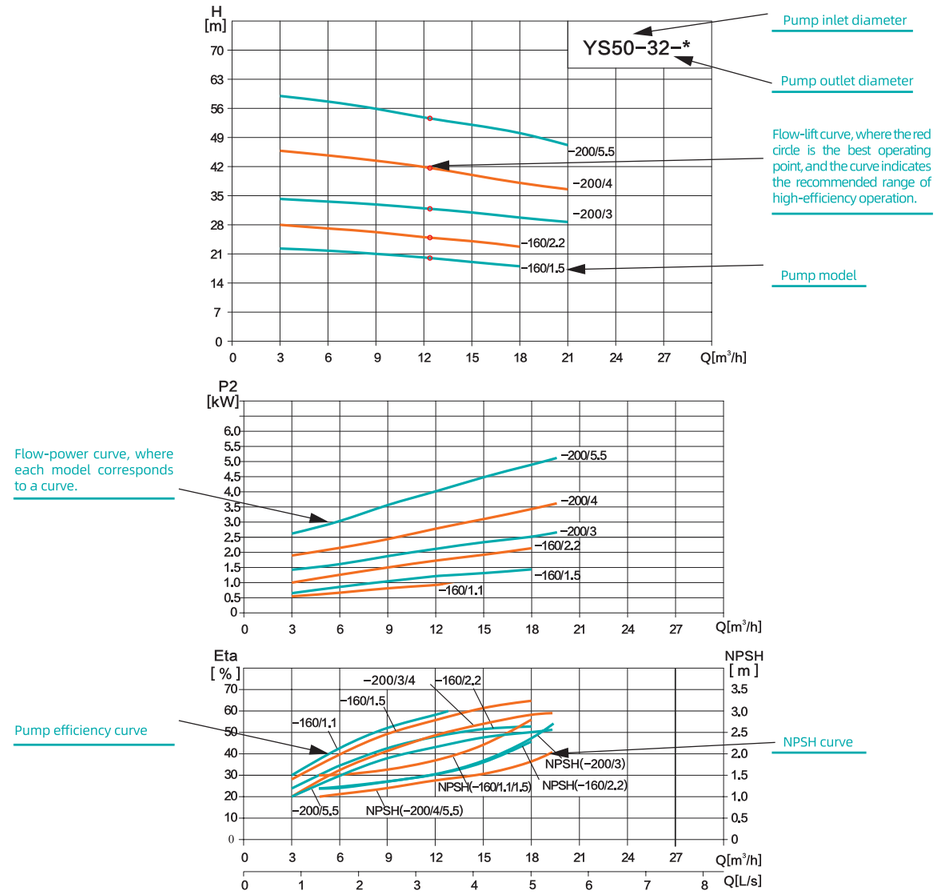
If the "H" value is negative, the pump can operate normally when the minimum inlet pressure reaches the pressure head of "H" m.

Notes: Usually the calculation above is not necessary, but the calculation is required under the following circumstances:

1. The liquid temperature is high;
2. The inlet conditions are poor;
3. The inlet pipeline is long, or the pump needs to be installed and used for suction;
4. The system pressure is too low;
5. The flow velocity of liquid is too high, causing a larger line loss.



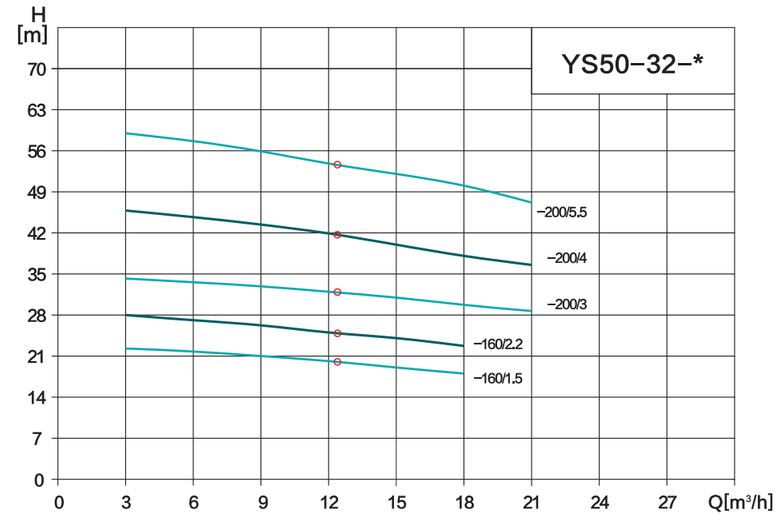
Examples of Performance Curves

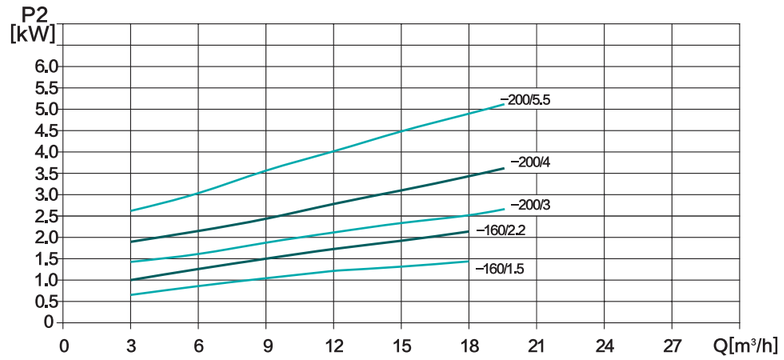


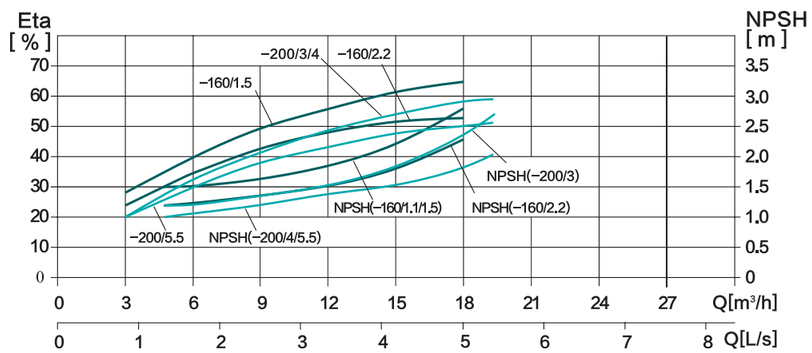
■ Applicable Principles of Performance Curves

1. The curve tolerance complies with ISO9906, Annex A;
2. The test medium is 20° C clean water that does not contain any solid impurity and air;
3. All curves are based on 3×380V electric motors with the rated speed of 2900rpm/1450rpm;
4. The curves are applicable to liquid with the kinematic viscosity Y=1mm/s (1cst);
5. In order prevent the danger of overheating, the pump shall be ensured to operate within the range of curves to avoid overload of motor.

YS50-32-*

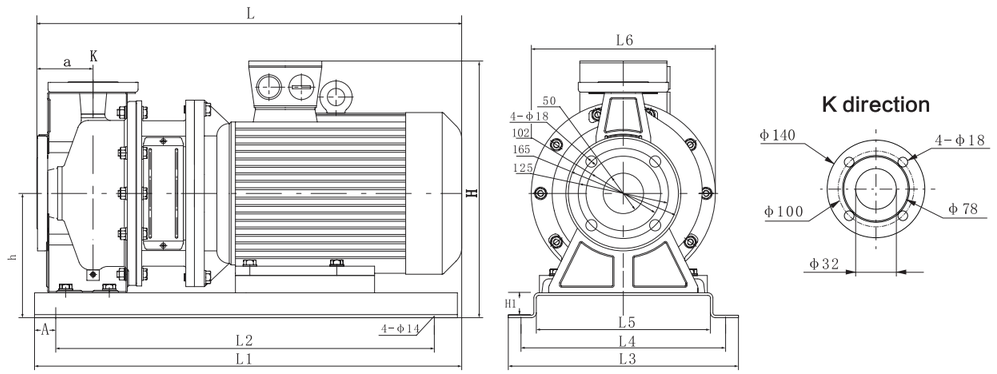






Performance Table

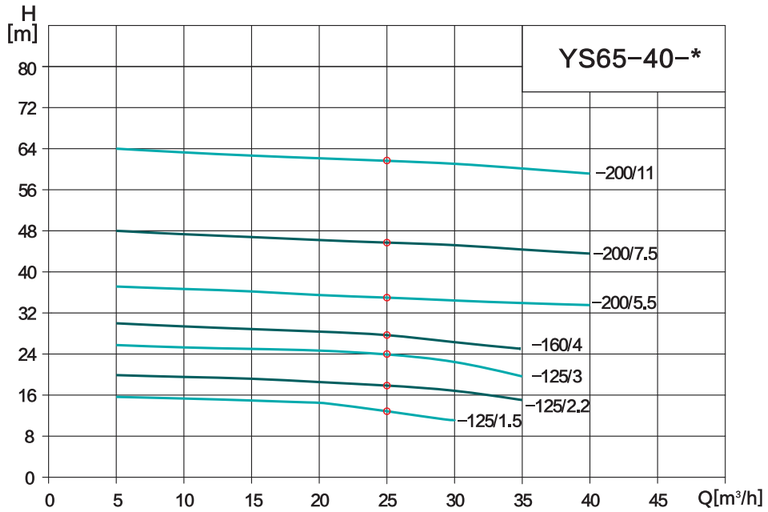
Model	Power	Q (m³/h)	3	6.3	9	15	18	20
YS50-32-160/1.5	1.5		22.5	22	21	19	18	/
YS50-32-160/2.2	2.2		28	27	26.3	24	22.5	/
YS50-32-200/3	3	H(m)	34.9	34.1	33.3	31	29.8	28.9
YS50-32-200/4	4		45.7	44.8	43.7	40.7	39	37.7
YS50-32-200/5.5	5.5		58.5	57.2	56	52.5	50	48.5

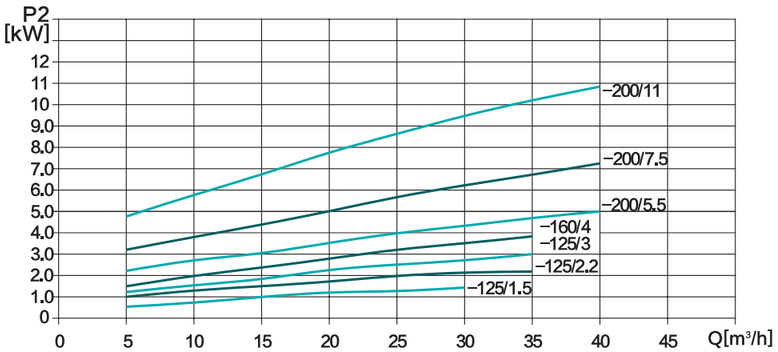


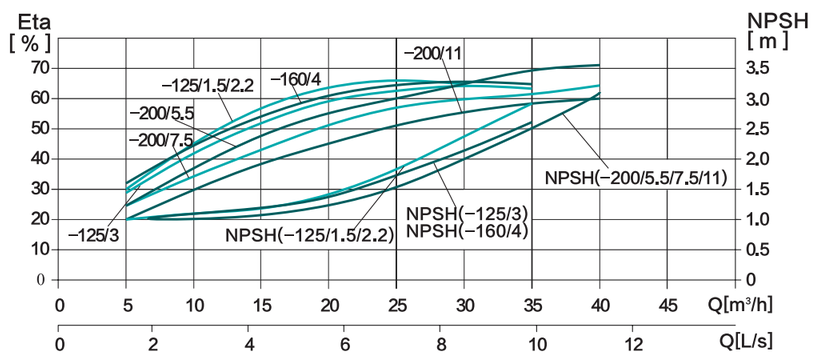
Dimensions and Weight

Pump model	Dimensions												Weight (kg)
	A	a	H	H1	h	L	L1	L2	L3	L4	L5	L6	
YS50-32-160/1.5	37	82	296	20	152	503	500	430	280	240	192	210	27
YS50-32-160/2.2	37	82	296	20	152	503	500	430	280	240	192	210	29
YS50-32-200/3	40	82	386	40	200	538	530	460	330	290	242	300	43
YS50-32-200/4	35	82	386	40	200	558	550	460	330	290	242	300	48
YS50-32-200/5.5	32	82	498	40	200	769	660	580	370	330	282	300	77

YS65-40-*

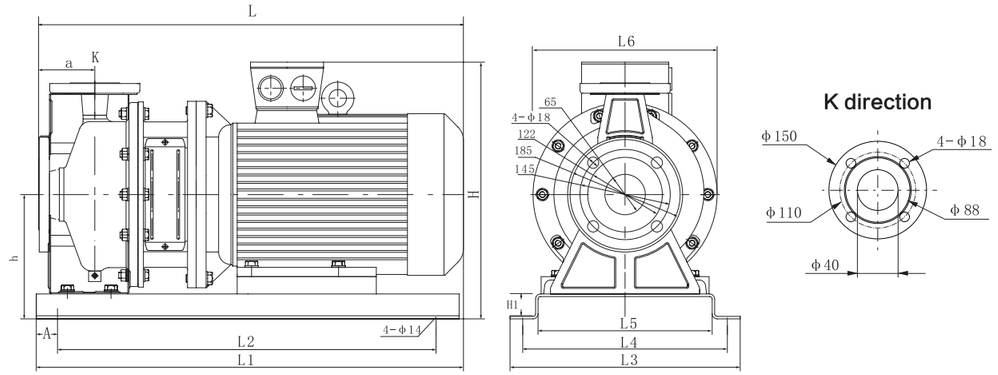






Performance Table

Model	Power	Q (m³/h)	5	10	15	20	25	30	35	40
YS65-40-125/1.5	1.5	H(m)	15.5	15.4	15	14.4	13	11.3	/	/
YS65-40-125/2.2	2.2		20	19.7	19.5	19	18	16.7	15.2	/
YS65-40-125/3	3		25.7	25.3	25.1	24.8	24	22.3	20.3	/
YS65-40-160/4	4		30	29.7	29.3	28.9	28	26.5	24.5	/
YS65-40-200/5.5	5.5		37.4	37.2	36.7	36.4	36	35.5	34.6	33.3
YS65-40-200/7.5	7.5		48	47.5	47	46.6	46	45.2	44.5	43.3
YS65-40-200/11	11		64	63.5	63	62.5	62	61.5	60.5	59

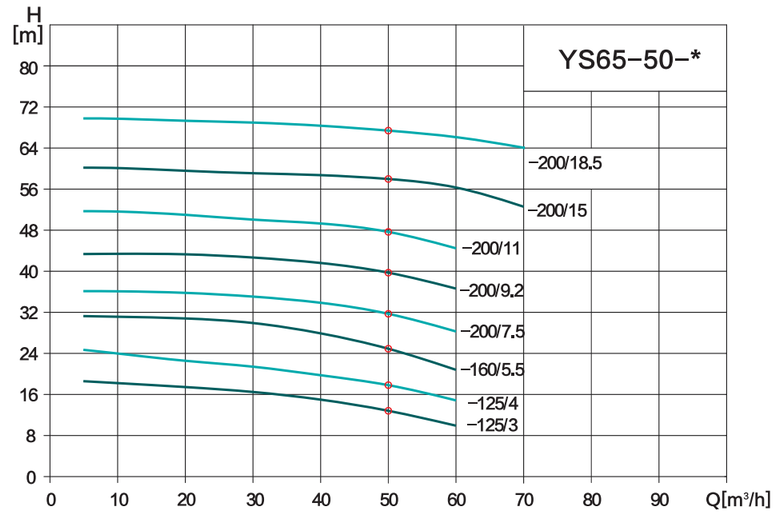


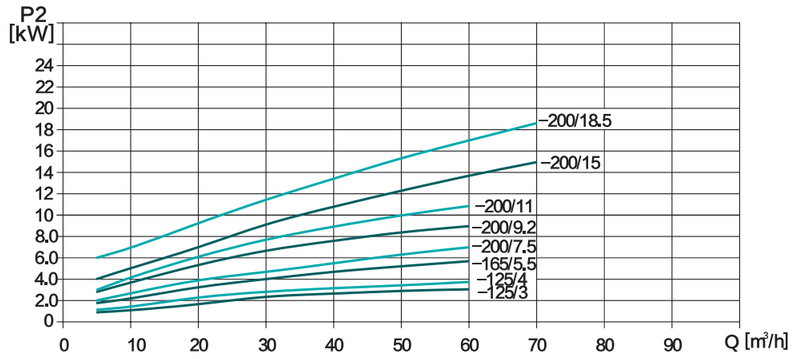
Dimensions and Weight

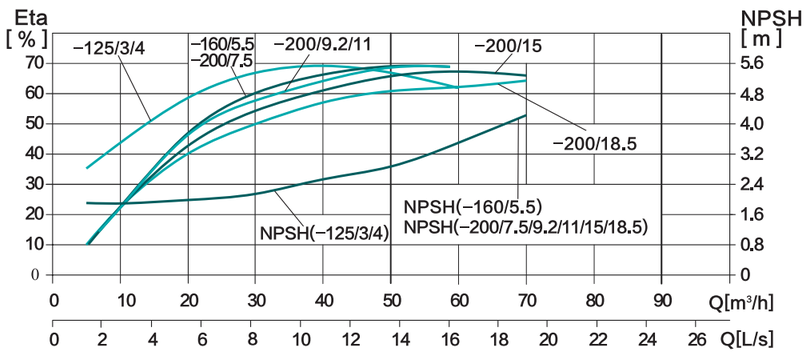
Pump model	Dimensions												Weight (kg)
	A	a	H	H1	h	L	L1	L2	L3	L4	L5	L6	
YS65-40-125/1.5	37	82	294	40	152	503	500	430	280	240	192	210	23
YS65-40-125/2.2	37	82	267	40	152	503	500	430	280	240	192	210	25
YS65-40-125/3	37	82	267	40	152	533	530	460	300	260	212	250	37
YS65-40-160/4	37	82	267	40	152	553	550	480	330	290	242	250	42
YS65-40-200/5.5	50	100	498	40	200	784	660	580	370	330	282	300	78
YS65-40-200/7.5	50	100	498	40	200	784	660	580	370	330	282	300	82
YS65-40-200/11	50	100	540	40	200	963	770	690	420	380	332	350	161

Note: The dimensions of the single phase motor and explosion-proof motor are subject to change.
You can consult SHIMGE for more details.

YS65-50-*

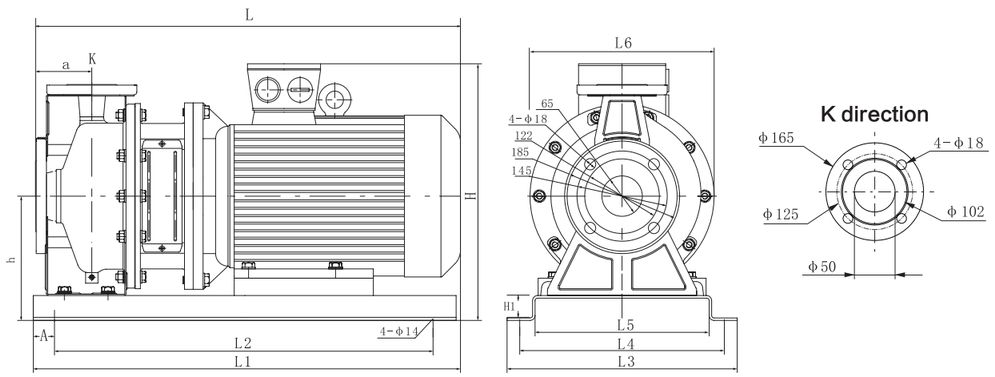






Performance Table

Model	Power	Q (m³/h)	5	10	20	30	40	50	60	70
YS65-50-125/3	3	H(m)	18	17.8	17.2	16.4	15.1	13	10	/
YS65-50-125/4	4		24.2	24.2	23.6	22.6	20.7	18	14.8	/
YS65-50-160/5.5	5.5		31.6	31.5	31	30	28	25	21.5	/
YS65-50-200/7.5	7.5		36.3	36.6	36.4	35.6	34.1	32	29.6	/
YS65-50-200/9.2	9.2		43.5	43.5	43.5	43	42	40	37.5	/
YS65-50-200/11	11		51.5	51.5	51	50	49.3	48	45.6	/
YS65-50-200/15	15		59.7	59.7	59.6	59.5	59	58	56.2	53
YS65-50-200/18.5	18.5		70.2	70.2	70.1	70	69.1	68	66.4	64

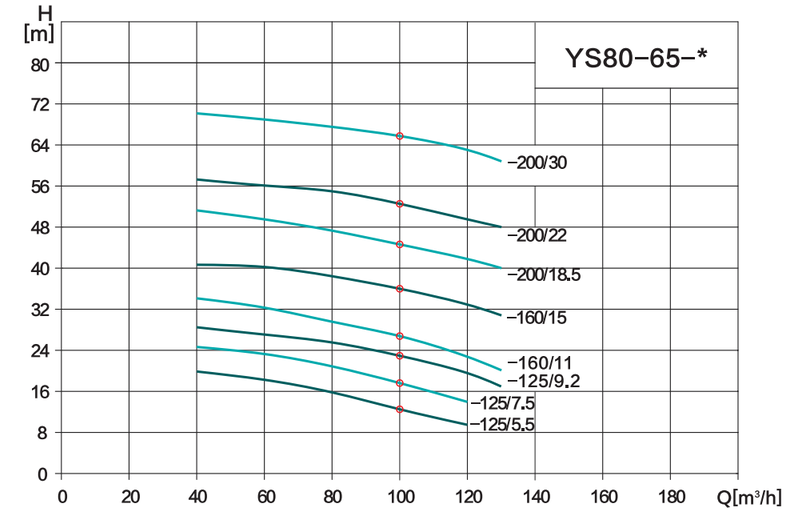


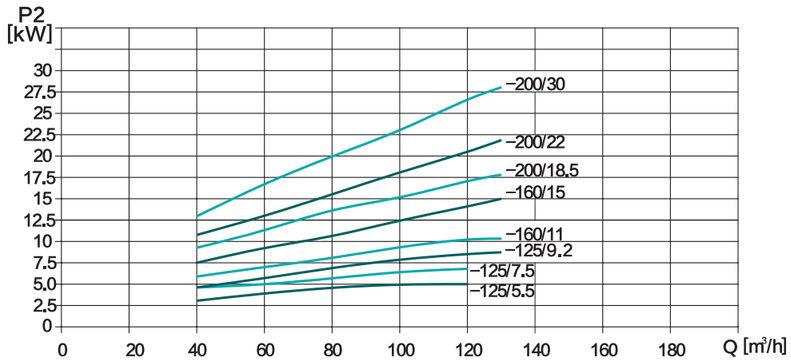
Dimensions and Weight

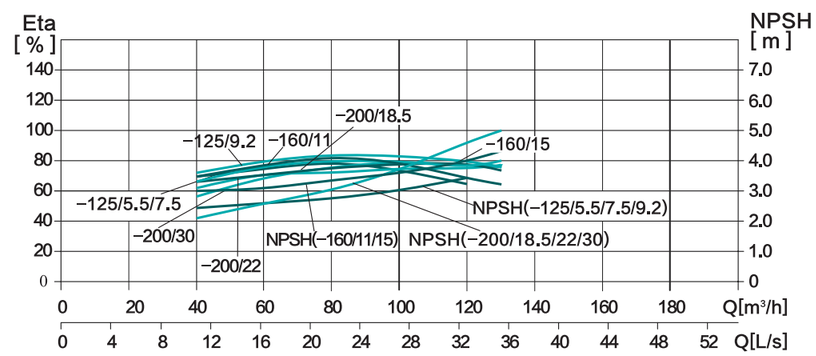
Pump model	Dimensions												Weight (kg)
	A	a	H	H1	h	L	L1	L2	L3	L4	L5	L6	
YS65-50-125/3	41	86	338	40	200	533	530	468	330	290	262	250	39
YS65-50-125/4	41	86	338	40	200	553	550	490	330	290	262	250	44
YS65-50-160/5.5	50	100	498	40	200	784	660	580	370	330	282	300	78
YS65-50-200/7.5	50	100	498	40	200	784	660	580	370	330	282	300	82
YS65-50-200/9.2	50	100	540	40	200	963	660	580	370	330	282	300	85
YS65-50-200/11	50	100	540	40	200	963	770	690	420	380	332	350	161
YS65-50-200/15	50	100	540	40	200	963	770	690	420	380	332	350	171
YS65-50-200/18.5	50	100	540	40	200	963	810	730	420	380	332	350	188

Note: The dimensions of the single phase motor and explosion-proof motor are subject to change.
You can consult SHIMGE for more details.

YS80-65-*

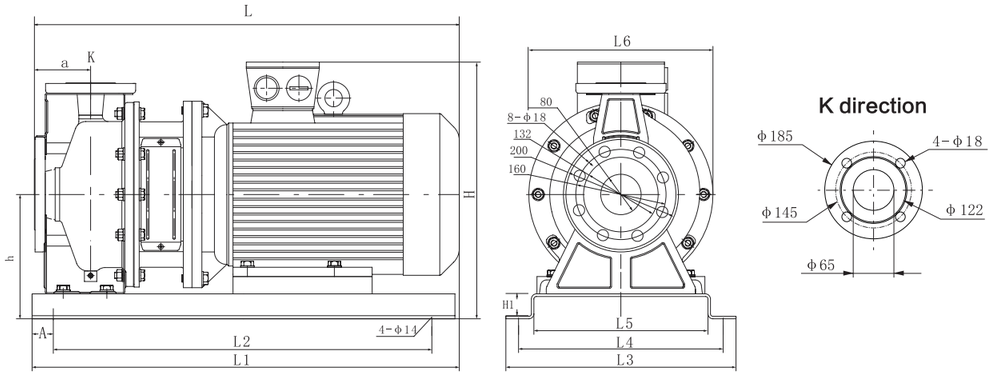






Performance Table

Model	Power	Q (m³/h)	40	50	60	70	80	90	100	110	120	130
YS80-65-125/5.5	5.5	H(m)	19.3	18.7	18	17	15.8	14.8	13	11.4	9.7	/
YS80-65-125/7.5	7.5		24.5	23.8	23.1	22.2	21	19.6	18	16.2	14.1	/
YS80-65-125/9.2	9.2		28.1	27.8	27.3	26.6	25.7	24.3	23	21.8	20.1	18.3
YS80-65-160/11	11		33.9	33	32.2	31.3	29.9	28.8	27	25.1	22.9	20.7
YS80-65-160/15	15		41.8	41.1	40.4	39.5	38.6	37.6	36	34.8	33	31
YS80-65-200/18.5	18.5		51	50.5	49.6	48.7	47.6	46.3	45	43.5	42.2	40.2
YS80-65-200/22	22		57.7	57.2	56.8	55.9	55.1	54	53	51.6	49.7	48.2
YS80-65-200/30	30		70.2	70.2	69.6	68.9	68.2	67.1	66	64.6	63.3	61.4

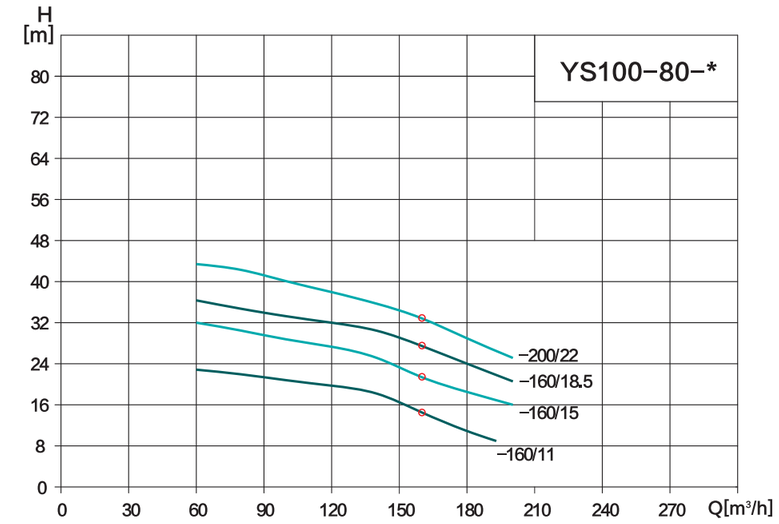


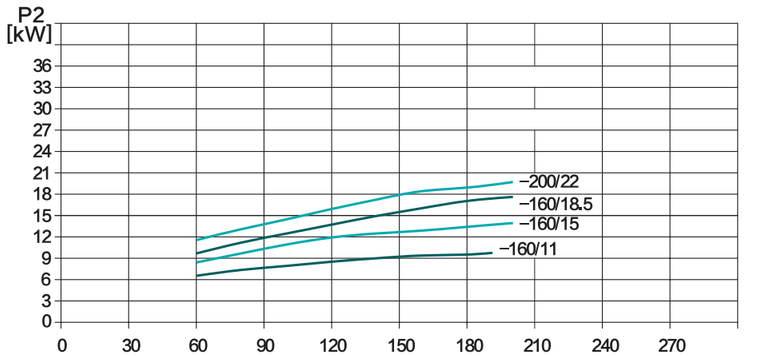
Dimensions and Weight

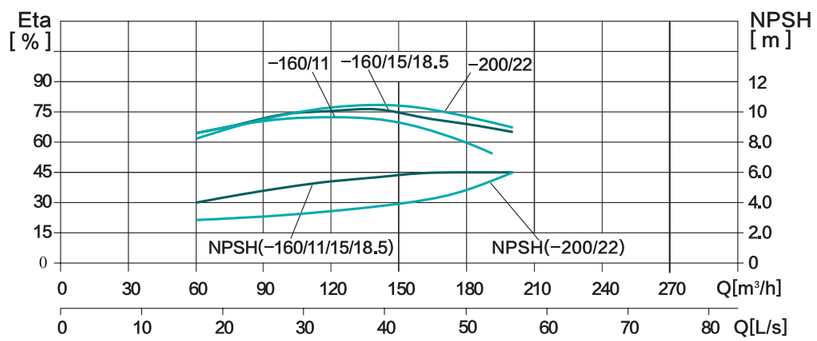
Pump model	Dimensions												Weight (kg)
	A	a	H	H1	h	L	L1	L2	L3	L4	L5	L6	
YS80-65-125/5.5	50	100	413	40	200	690	660	590	370	330	282	300	79
YS80-65-125/7.5	50	100	413	40	200	690	660	590	370	330	282	300	83
YS80-65-125/9.2	50	100	413	40	200	690	660	590	370	330	282	300	87
YS80-65-160/11	50	100	456	40	200	790	770	690	420	380	332	350	163
YS80-65-160/15	50	100	456	40	200	790	770	690	420	380	332	350	173
YS80-65-200/18.5	50	100	476	40	200	830	810	730	420	380	332	350	190
YS80-65-200/22	50	100	500	40	200	880	860	780	455	415	367	350	220
YS80-65-200/30	50	100	550	40	200	950	930	850	495	455	407	400	292

Note: The dimensions of the single phase motor and explosion-proof motor are subject to change.
You can consult SHIMGE for more details.

YS100-80-*

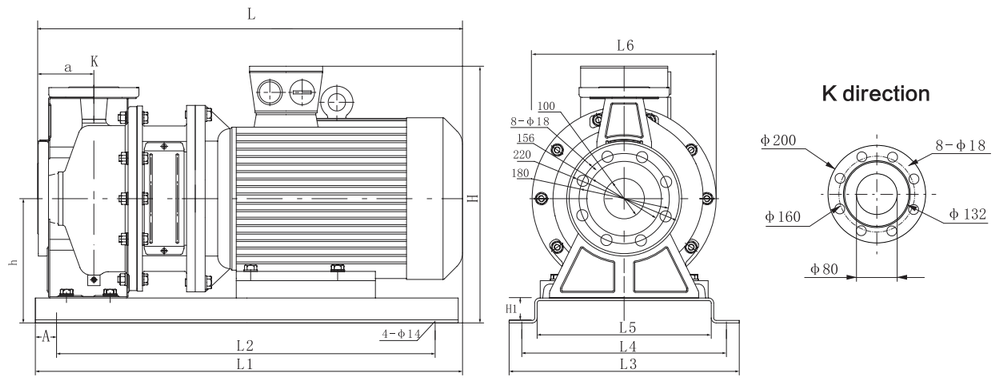






Performance Table

Model	Power	Q (m³/h)	60	80	100	120	140	160	180	192	200
YS100-80-160/11	11	H(m)	23.8	22.7	21.1	19.7	17.6	15	11.8	9.7	/
YS100-80-160/15	15		32.3	30.8	29.1	27.2	25.1	22	18.8	/	16.1
YS100-80-160/18.5	18.5		36.2	35.2	33.8	32.7	31	28	24.8	/	21.5
YS100-80-200/22	22		43.5	42	39.7	38.3	35.9	33	29	/	24.9



Dimensions and Weight

Pump model	Dimensions												Weight (kg)
	A	a	H	H1	h	L	L1	L2	L3	L4	L5	L6	
YS100-80-160/11	50	125	476	40	200	830	810	730	420	380	332	350	163
YS100-80-160/15	50	125	476	40	200	830	810	730	420	380	332	350	173
YS100-80-160/18.5	50	125	476	40	200	870	850	770	420	380	332	350	185
YS100-80-200/22	50	125	500	40	200	920	890	810	455	415	367	350	220

Note: The dimensions of the single phase motor and explosion-proof motor are subject to change.
You can consult SHIMGE for more details.

Packing Sizes & Weight

Model	Dim.(mm)(L*W*H)	G.W.(kg)
YS50-32-160/1.5	540×310×350	32
YS50-32-160/2.2	540×310×350	34
YS50-32-200/3	580×360×440	50
YS50-32-200/4	600×360×440	52
YS50-32-200/5.5	830×440×550	87
YS65-40-125/1.5	540×310×350	28
YS65-40-125/2.2	540×310×320	30
YS65-40-125/3	570×330×320	43
YS65-40-160/4	590×360×320	50
YS65-40-200/5.5	830×440×550	88
YS65-40-200/7.5	830×440×550	92
YS65-40-200/11	980×490×590	175
YS65-50-125/3	570×360×390	44
YS65-50-125/4	590×360×390	53
YS65-50-160/5.5	830×440×550	88
YS65-50-200/7.5	830×440×550	92
YS65-50-200/9.2	830×440×550	95
YS65-50-200/11	980×490×590	175
YS65-50-200/15	980×490×590	185
YS65-50-200/18.5	1020×490×590	202
YS80-65-125/5.5	830×440×550	87
YS80-65-125/7.5	830×440×550	91
YS80-65-125/9.2	830×440×550	95
YS80-65-160/11	980×490×590	177
YS80-65-160/15	980×490×590	187
YS80-65-200/18.5	1020×490×590	204
YS80-65-200/22	1060×530×630	235
YS80-65-200/30	1140×570×690	310
YS100-80-160/11	1030×450×590	177
YS100-80-160/15	1030×450×590	187
YS100-80-160/18.5	1050×450×590	199
YS100-80-200/30	1150×525×600	313
YS100-80-200/37	1150×525×600	333

The BLA series light stainless steel vertical multistage centrifugal pumps

BL(T)-A

Model Instruction

BL 32 - 2 - 2-A

- The matching motor is apermanent magnet motor
- Number of small impellers
- Number of stages
- Rated flow rate (m^3/h)
- Light stainless steel vertical multistage centrifugal pump

Overview Of The Product

The BLA series light stainless steel vertical multistage centrifugal pumps are non-self-priming vertical multistage centrifugal pumps designed and manufactured by absorbing advanced technology both at home and abroad, and adopt IE5 permanent magnet variable frequency motor and alloy mechanical seal, which are are easy to replace. The flow passage parts of the BLA pump are all made of stainless steel, and some flow passage parts of the BLTA pumps are made of cast iron, so they are applicable to lightly corrosive media. After the products are put on the market, they are deeply favored by users for their high efficiency, energy saving, reliable quality, and wide range of use.

Application

◎ Temperature range of medium: Normal type 0 ~ +68℃ , hot water type 0 ~ +120℃
◎ Maximum ambient temperature:+40℃
◎ Maximum working pressure: 10 bar
◎ When the density or viscosity of the transmission medium exceeds that of water, it is necessaryto select a drving motor of high-power.
◎ pH: 6.5 to 8.5

Applications Fields

◎ Pressurized water supply
◎ Water treatment system
◎ Industrial liquid transportation
◎ Farmland irrigation

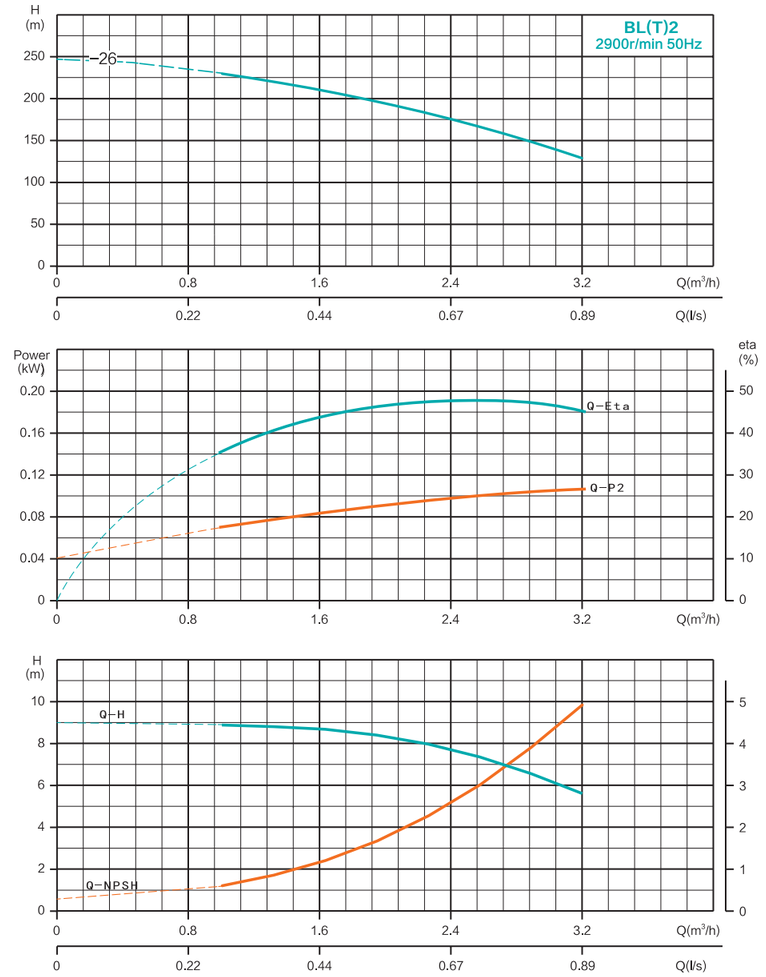
Certificate

CE

Optional Available On Request

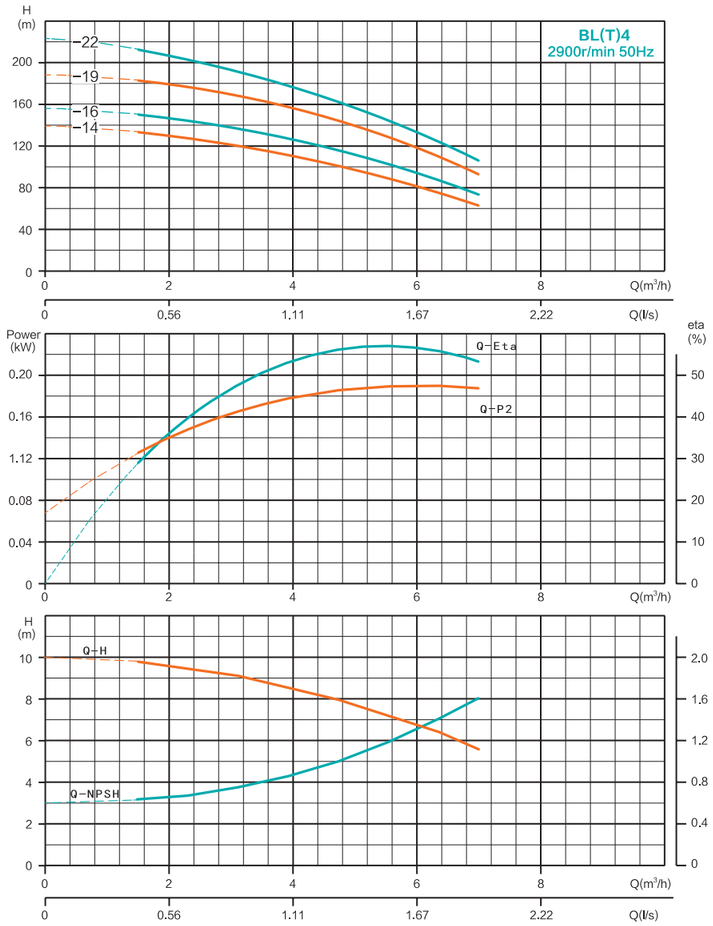
◎ elnsulation class: F
◎ Standard voltage (50Hz): Single phase 220v
◎ Three phase:380v or 220v

Performance curve



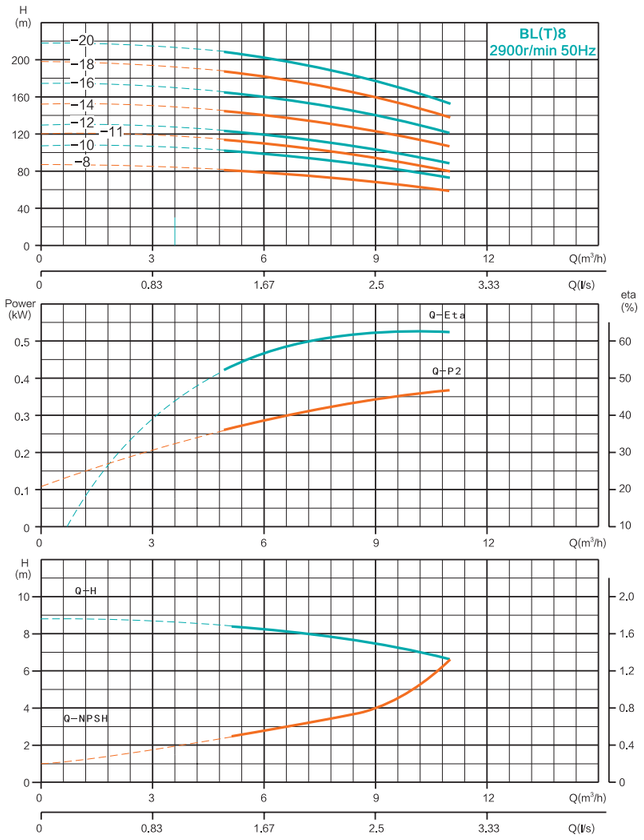
Model	Flow (m^3/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL2-26A	2	198	3	23.2
BLT2-26A	2	198	3	23.2

Performance curve



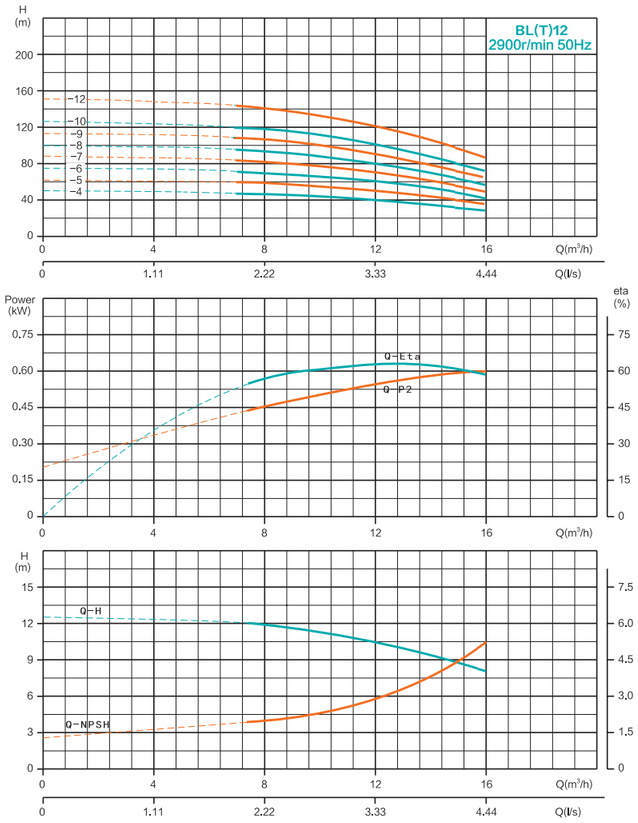
Model	Flow (m^3/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL4-14A	4	112	3	13.6
BLT4-14A	4	112	3	13.6
BL4-16A	4	129	3	15.2
BLT4-16A	4	129	3	15.2
BL4-19A	4	153	4	18.3
BLT4-19A	4	153	4	18.3
BL4-22A	4	178	4	21.1
BLT4-22A	4	178	4	21.1

Performance curve



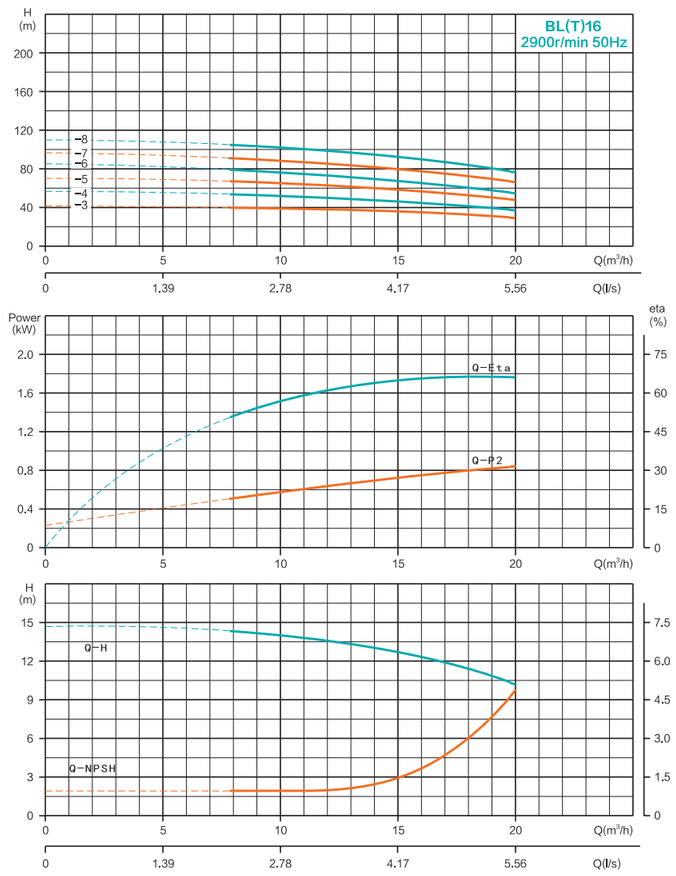
Model	Flow(m^3/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL8-8A	8	73	3	8.3
BLT8-8A	8	73	3	8.3
BL8-10A	8	92	4	10.4
BLT8-10A	8	92	4	10.4
BL8-11A	8	101	4	11.4
BLT8-11A	8	101	4	11.4
BL8-12A	8	111	4	12.4
BLT8-12A	8	111	4	12.4
BL8-14A	8	130	5.5	14.5
BLT8-14A	8	130	5.5	14.5
BL8-16A	8	148	5.5	16.6
BLT8-16A	8	148	5.5	16.6
BL8-18A	8	167	7.5	18.7
BLT8-18A	8	167	7.5	18.7
BL8-20A	8	186	7.5	20.8
BLT8-20A	8	186	7.5	20.8

Performance curve



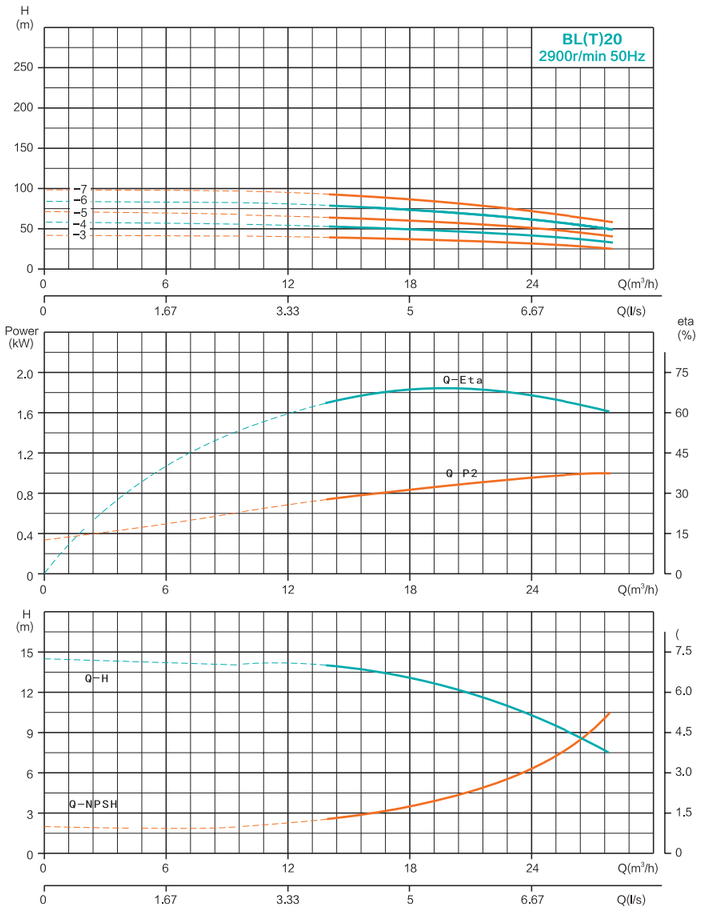
Model	Flow(m³/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL12-4A	12	40	3	4.7
BLT12-4A	12	40	3	4.7
BL12-5A	12	50	3	5.95
BLT12-5A	12	50	3	5.95
BL12-6A	12	60	4	7.15
BLT12-6A	12	60	4	7.15
BL12-7A	12	70	5.5	8.35
BLT12-7A	12	70	5.5	8.35
BL12-8A	12	80	5.5	9.55
BLT12-8A	12	80	5.5	9.55
BL12-9A	12	91	5.5	10.8
BLT12-9A	12	91	5.5	10.8
BL12-10A	12	101	7.5	12
BLT12-10A	12	101	7.5	12
BL12-12A	12	121	7.5	14.35
BLT12-12A	12	121	7.5	14.35

Performance curve



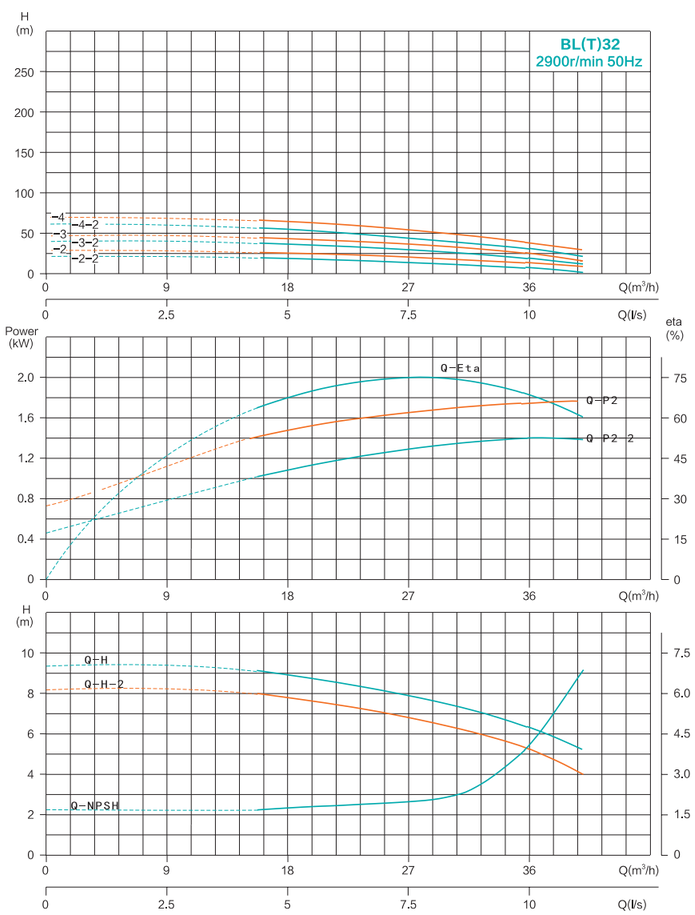
Model	Flow(m³/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL16-3A	16	34	3	4.1
BLT16-3A	16	34	3	4.1
BL16-4A	16	46	4	5.4
BLT16-4A	16	46	4	5.4
BL16-5A	16	58	5.5	6.8
BLT16-5A	16	58	5.5	6.8
BL16-6A	16	70	5.5	8.2
BLT16-6A	16	70	5.5	8.2
BL16-7A	16	82	7.5	9.6
BLT16-7A	16	82	7.5	9.6
BL16-8A	16	94	7.5	11
BLT16-8A	16	94	7.5	11

Performance curve



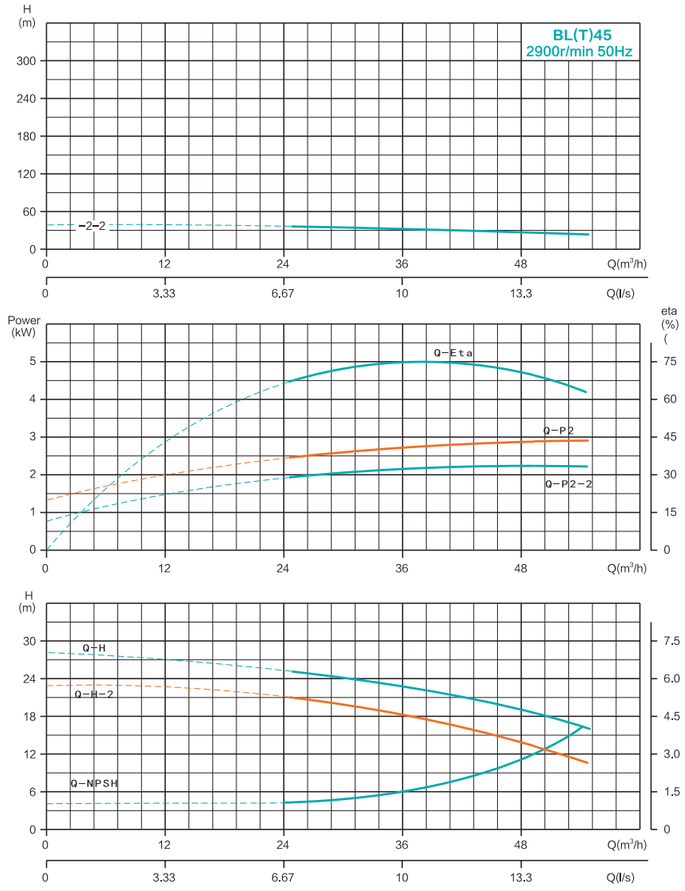
Model	Flow(m^3/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL20-3A	20	35	4	3.9
BLT20-3A	20	35	4	3.9
BL20-4A	20	47	5.5	5.2
BLT20-4A	20	47	5.5	5.2
BL20-5A	20	58	5.5	6.4
BLT20-5A	20	58	5.5	6.4
BL20-6A	20	70	7.5	7.7
BLT20-6A	20	70	7.5	7.7
BL20-7A	20	82	7.5	9.1
BLT20-7A	20	82	7.5	9.1

Performance curve



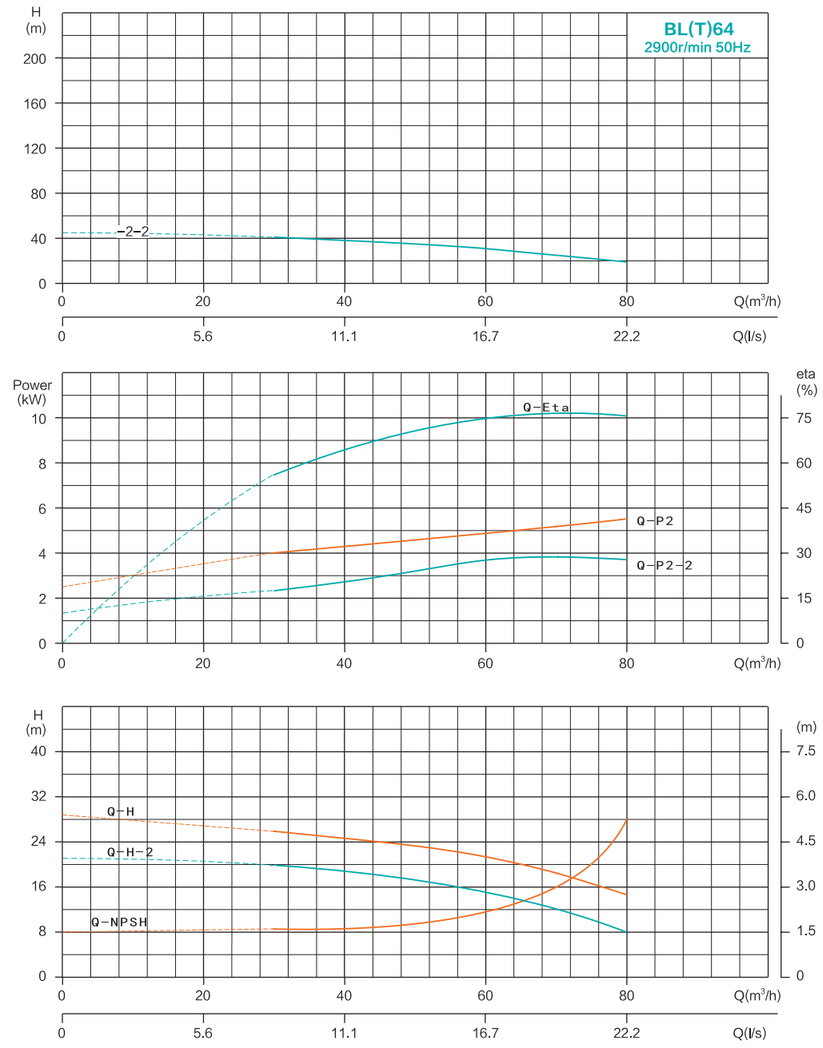
Model	Flow(m^3/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL32-2-2A	32	20	3	2.9
BLT32-2-2A	32	20	3	2.9
BL32-2A	32	27	4	3.6
BLT32-2A	32	27	4	3.6
BL32-3-2A	32	33	5.5	4.7
BLT32-3-2A	32	33	5.5	4.7
BL32-3A	32	40	5.5	5.4
BLT32-3A	32	40	5.5	5.4
BL32-4-2A	32	46	7.5	6.5
BLT32-4-2A	32	46	7.5	6.5
BL32-4A	32	53	7.5	7.2
BLT32-4A	32	53	7.5	7.2

Performance curve



Model	Flow(m³/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL45-2-2A	45	30	5.5	4
BLT45-2-2A	45	30	5.5	4
BL45-2A	45	39	7.5	4.8
BLT45-2A	45	39	7.5	4.8

Performance curve

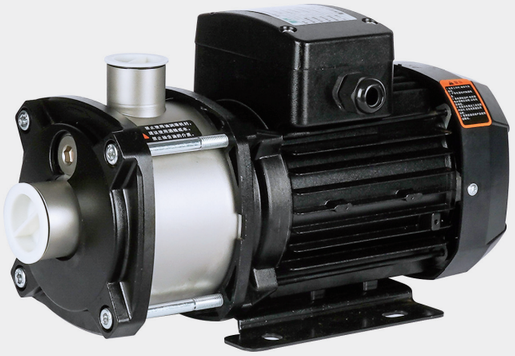


Model	Flow(m³/h)	Head(m)	Power(kW)	Maximum pressure(bar)
BL64-2-2A	64	26	7.5	3.9
BLT64-2-2A	64	26	7.5	3.9

Packing Sizes & Weight

Model	Dim.(mm)(L*W*H)	BL G.W.(kg)	BLT G.W.(kg)
BL(T)2-26A	1150×390×320	66	70
BL(T)4-14A	1060×390×320	62	73
BL(T)4-16A	1110×390×320	64	76
BL(T)4-19A	1190×410×320	67	88
BL(T)4-22A	1270×410×320	69	92
BL(T)8-8A	1000×370×360	72	78
BL(T)8-10A	1060×400×420	76	89
BL(T)8-11A	1100×400×420	77	90
BL(T)8-12A	1160×410×420	86	100
BL(T)8-14A	1220×410×420	91	120
BL(T)8-16A	1280×410×420	94	123
BL(T)8-18A	1350×410×420	97	130
BL(T)8-20A	1410×410×420	100	133
BL(T)12-4A	900×380×360	64	75
BL(T)12-5A	900×380×360	66	76
BL(T)12-6A	950×380×360	67	85
BL(T)12-7A	1030×400×420	71	111
BL(T)12-8A	1030×400×420	73	113
BL(T)12-9A	1060×400×420	74	114
BL(T)12-10A	1100×400×420	77	120
BL(T)12-12A	1160×410×420	81	122
BL(T)16-3A	900×380×360	68	75
BL(T)16-4A	950×380×360	69	84
BL(T)16-5A	1030×400×420	80	110
BL(T)16-6A	1060×400×420	82	113
BL(T)16-7A	1100×400×420	83	120
BL(T)16-8A	1160×410×420	84	121
BL(T)20-3A	900×380×360	67	83
BL(T)20-4A	950×380×360	78	109
BL(T)20-5A	1030×400×420	80	111
BL(T)20-6A	1060×400×420	81	118
BL(T)20-7A	1100×400×420	82	119
BL(T)32-2-2A	1060×390×470	101	113
BL(T)32-2A	1060×390×470	101	113
BL(T)32-3-2A	1150×420×470	103	131
BL(T)32-3A	1150×420×470	103	131
BL(T)32-4-2A	1220×420×470	104	137
BL(T)32-4A	1220×420×470	104	137
BL(T)45-2-2A	1140×440×500	111	145
BL(T)45-2A	1140×440×500	111	145
BL(T)64-2-2A	1100×440×500	133	163

BWI series new light stainless steel horizontal multistage centrifugal pump



BWI

Model Instruction

BWI 2 - 4

- BWI: New stainless steel horizontal multistage centrifugal pump
- 2: Rated flow rate (m^3/h)
- 4: Number of pump stages

Overview Of The Product

BWI series new light stainless steel horizontal multistage centrifugal pump is a multi-purpose non-self-priming horizontal multistage centrifugal pump. This series of products has the characteristics of high efficiency, low noise and stable operation. The whole is compact, easy to install, easy to use and maintain. The overflow part is made of high-quality 304 stainless steel stamping and welding.

Application Limits

◎ Thin, clean, non-combustible, and non-explosive liquid containing no solid particle or fiber
◎ Applicable to deliver tap water, alkaline mineral water, softened water or mildly-corrosive medium
◎ The use of a large-power motor must be considered when the density or viscosity of the medium delivered is higher than that of water.
◎ Medium temperature: 0℃ -68℃ for normal temperature type; 0℃ -120℃ for hot water type
◎ Ambient temperature: -15℃ -+40℃ ; maximum operating pressure: 1.0MPa

Applications Fields

◎ Air conditioning system
◎ Filling machinery
◎ Environmental engineering
◎ Water supply and pressurization system
◎ Fertilization and metering system
◎ Cooling system
◎ Industrial cleaning
◎ Aquaculture
◎ Water treatment system application
◎ Supporting use of chiller

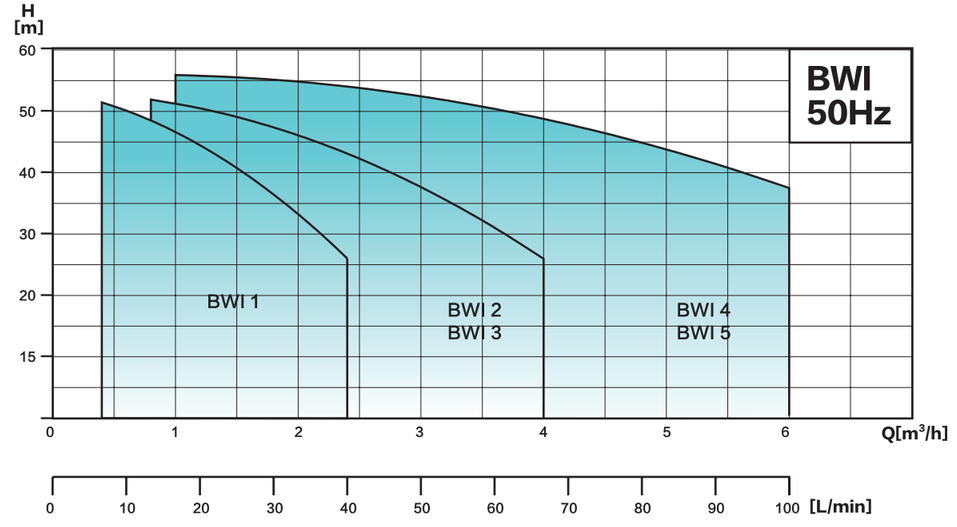
Certificate

CE

Optional Available On Request

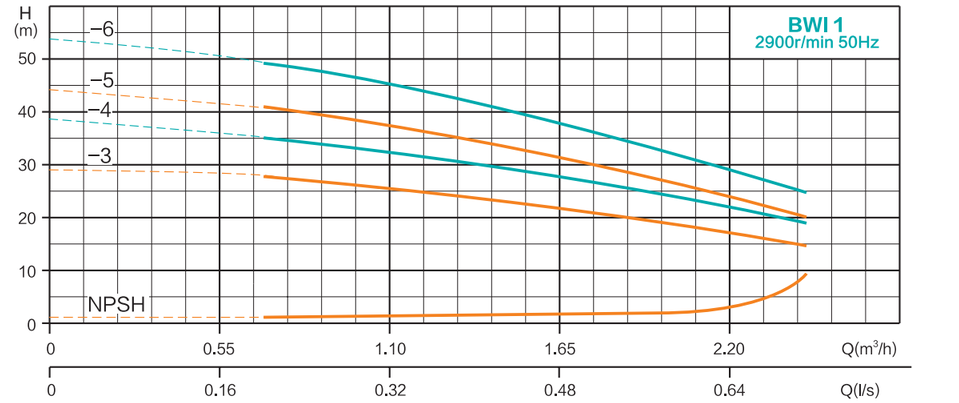
Fully enclosed secondary air-cooled special shaft motor (extended shaft), NSK bearing/domestic brand bearing, 50W800 cold-rolled silicon steel sheet
◎ Protection level: IP55
◎ Insulation class: Class F
◎ Working method: S1
◎ Voltage level: 220V/380V/50Hz

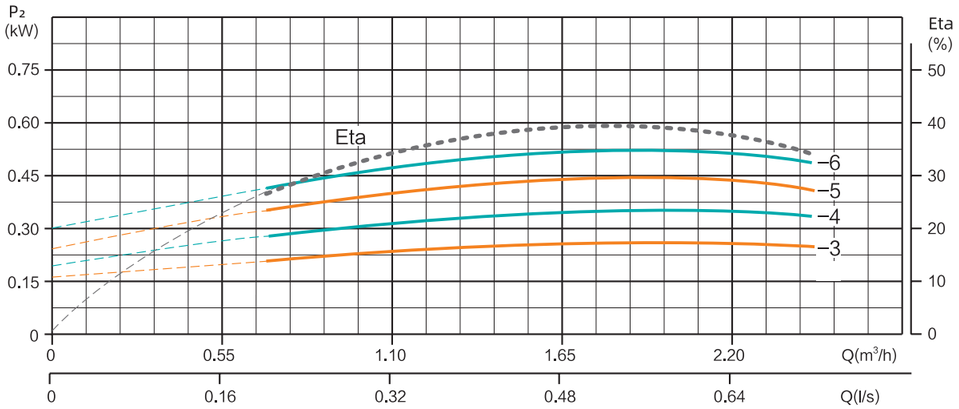
Performance Curve



Model	Rated flow (m3/h)	Flow range (m3/h)	Maximum pressure (bar)	Motor power (kW)	Maximum efficiency (%)	Temperature range (℃)	Inlet	Outlet
BWI 1	1	0.4-2.4	5.1	0.25-0.37	28	0℃ -68℃	G1	G1
BWI 2	2	0.8-4	5.6	0.25-0.75	39		G1	G1
BWI 3	3	0.8-4	5.6	0.25-0.75	49		G1	G1
BWI 4	4	1-6	5.6	0.37-1.3	52		G1 1/4	G1
BWI 5	5	1-6	5.6	0.37-1.3	56		G1 1/4	G1

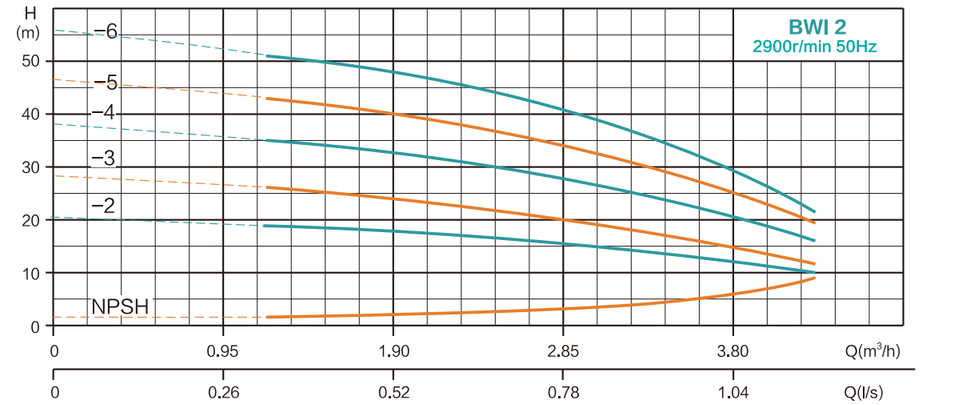
BWI 1 Performance Curve

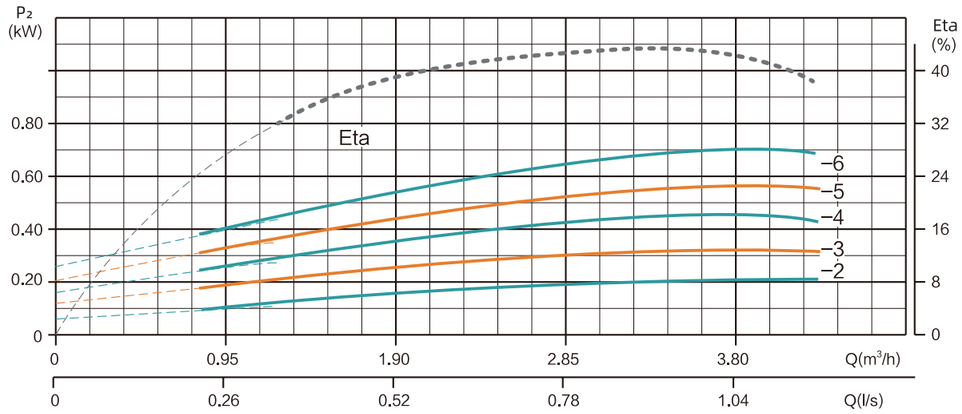




Model	Power	Q (m³/h)	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4
BWI 1-3	0.25	H(m)	29	28.5	26	25	24.5	23.5	22	21	19	17	16
BWI 1-4	0.37		37	36	35	33	32	30	28	27	26	22	20
BWI 1-5	0.37		43	42	41	38	36	34	32	29	27	25	22
BWI 1-6	0.37		51	50	49	46	44	42	40	36	32	30	26

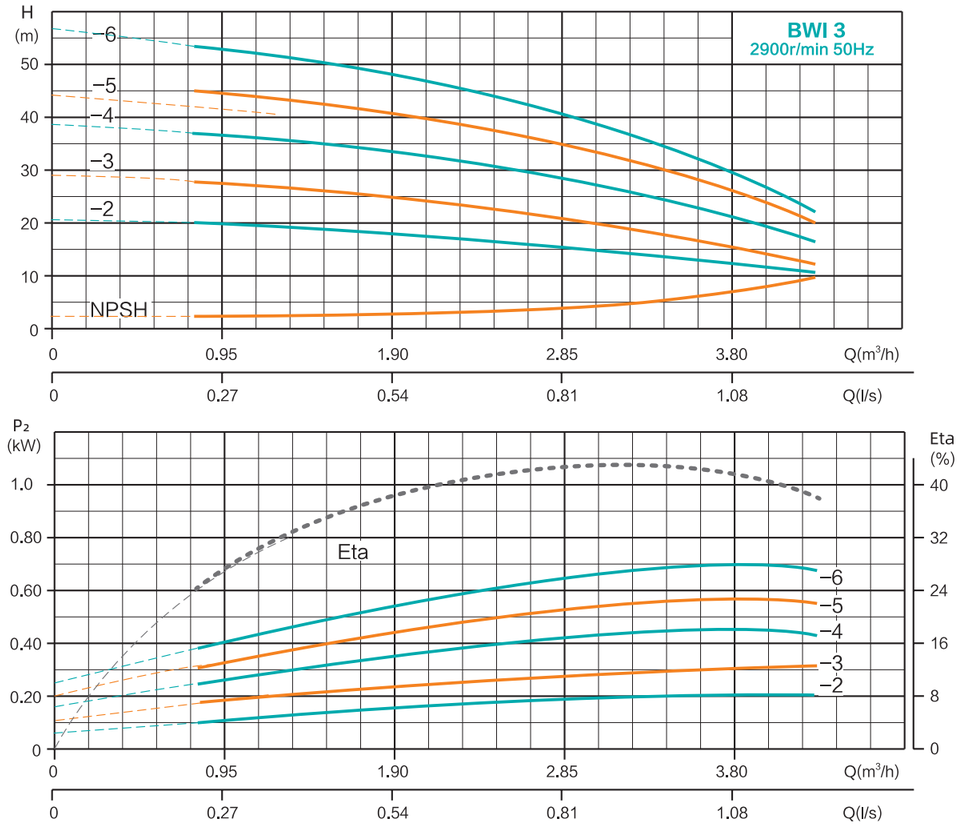
BWI 2 Performance Curve





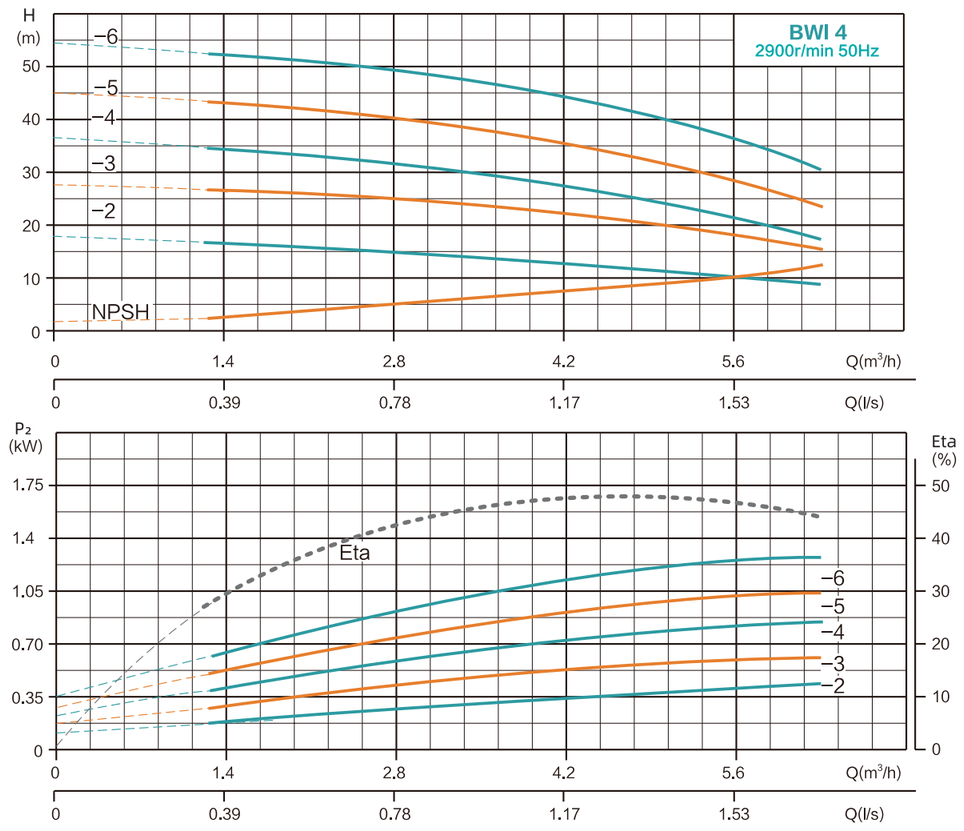
Model	Power	Q (m³/h)	0.8	1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.0
BWI 2-2	0.25	H(m)	18.5	17.5	17	16	15	14	12	11	9.5
BWI 2-3	0.37		26	25	24	23	22	21	19	16	14
BWI 2-4	0.55		35	34	33	31	30	28	26	22	19
BWI 2-5	0.55		43	42	41	39	37	35	32	27.5	23
BWI 2-6	0.75		52	50.5	47	46	44	40	35	30.5	26

BWI 3 Performance Curve



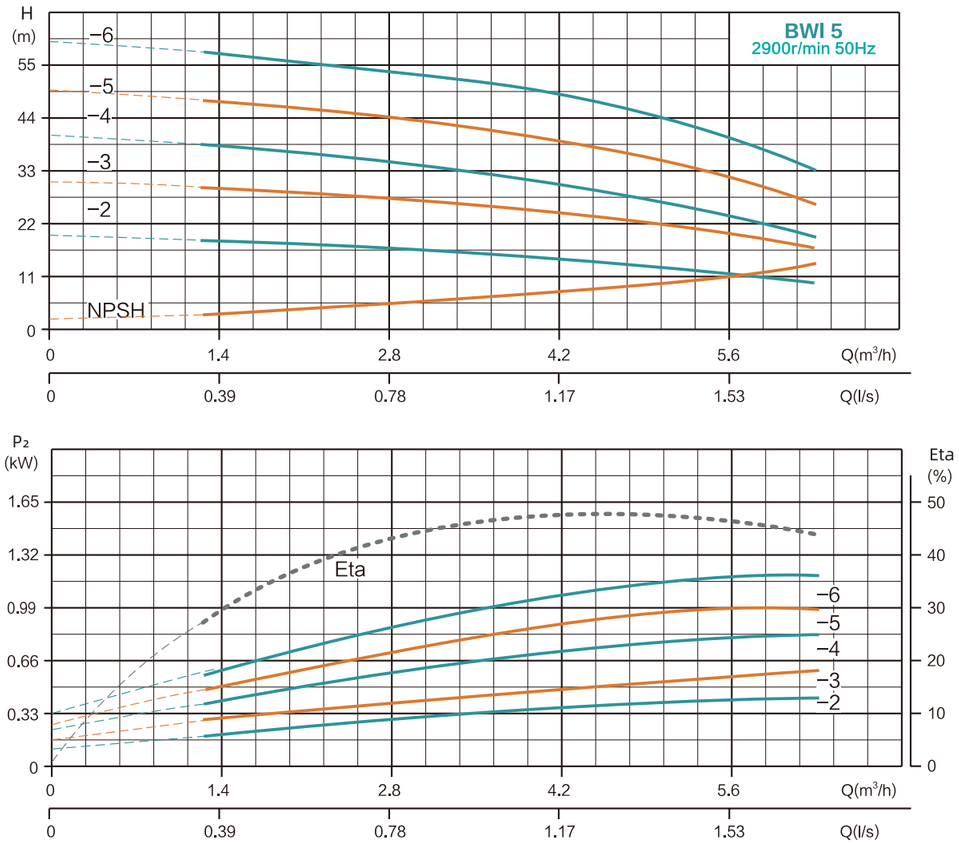
Model	Power	Q (m³/h)	0.8	1.2	1.6	2.0	2.4	2.8	3.0	3.2	3.6	4.0
BWI 3-2	0.25		18.5	17.5	17	16	15	14	13	12	11	9.5
BWI 3-3	0.37		26	25	24	23	22	21	20	19	16	14
BWI 3-4	0.55	H(m)	35	34	33	31	30	28	27	26	22	19
BWI 3-5	0.55		43	42	41	39	37	35	33	32	27.5	23
BWI 3-6	0.75		52	50.5	47	46	44	40	37	35	30.5	26

BWI 4 Performance Curve



Model	Power	Q (m³/h)	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
BWI 4-2	0.37		18.5	18	17.5	17	16	15.5	15	13.5	13	11	10
BWI 4-3	0.55		29	28.5	28	27	26.5	25.5	25	23	22	20	18
BWI 4-4	0.75	H(m)	38	37	36	34	33.5	32	30	28	27	24	20
BWI 4-5	1.0		47	46	45	44	42.5	41	40	36	35	32	27
BWI 4-6	1.3		56.5	55	54	53	52.5	51	49	45	44	42	36

BWI 5 Performance Curve

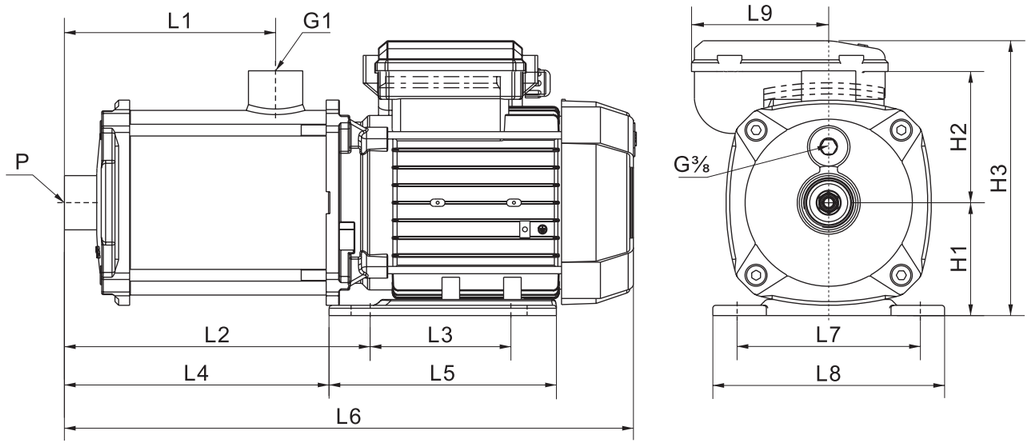


Model	Power	Q (m³/h)	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
BWI 5-2	0.37	H(m)	18.5	18	17.5	17	16	15.5	15	13.5	13	11	10
BWI 5-3	0.55		29	28.5	28	27	26.5	25.5	25	23	22	20	18
BWI 5-4	0.75		38	37	36	34	33.5	32	30	28	27	24	20
BWI 5-5	1.0		47	46	45	44	42.5	41	40	36	35	32	27
BWI 5-6	1.3		56.5	55	54	53	52.5	51	49	45	44	42	36

Components

No.	Component	No.	Component
101	Pressure cylinder	520	Oblong sleeve
112-1	Deflector	531	bushing
112-2	Outlet deflector	550-2	Adjusting washer
160	Platen	592	base
161	COVER AS-FRONT	801	electric machinery
170	Inlet deflector	900	Hexagon flange bolt
230	impeller	914-1	Hexagon socket head cap screw
412-1	O-ring seal	914-2	Hexagon socket plug
412-2	O-ring seal	920	Non-metallic insert hex lock nut
433	Mechanical seal	930-1	Standard spring washer

Packing Sizes & Weight



Model	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H1 (mm)	H2 (mm)	Single-phase	Three phase	P	Weight (kg)
												H3(mm)			
BWI 1-3	72	131	96	115	136	305	125	158	93.5	75	90	174	174	G1	8
BWI 1-4	90	149	96	133	136	323	125	158	93.5	75	90	174	174	G1	8.3
BWI 1-5	108	167	96	151	136	341	125	158	93.5	75	90	174	174	G1	8.6
BWI 1-6	144	203	96	187	136	377	125	158	93.5	75	90	174	174	G1	9

Model	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H1 (mm)	H2 (mm)	Single-phase	Three phase	P	Weight (kg)
												H3(mm)			
BWI 2-2	72	131	96	115	136	305	125	158	93.5	75	90	174	174	G1	7.4
BWI 2-3	72	131	96	115	136	305	125	158	93.5	75	90	174	174	G1	7.5
BWI 2-4	90	154	96	126	155	334	125	158	93.5	75	90	197	188	G1	10
BWI 2-5	108	172	96	144	155	352	125	158	93.5	75	90	197	188	G1	10.5
BWI 2-6	144	208	96	180	155	388	125	158	93.5	75	90	197	188	G1	12

Model	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H1 (mm)	H2 (mm)	Single-phase	Three phase	P	Weight (kg)
												H3(mm)			
BWI 3-2	72	131	96	115	136	305	125	158	93.5	75	90	174	174	G1	7.4
BWI 3-3	72	131	96	115	136	305	125	158	93.5	75	90	174	174	G1	7.5
BWI 3-4	90	154	96	126	155	334	125	158	93.5	75	90	197	188	G1	10
BWI 3-5	108	172	96	144	155	352	125	158	93.5	75	90	197	188	G1	10.5
BWI 3-6	144	208	96	180	155	388	125	158	93.5	75	90	197	188	G1	12

Model	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H1 (mm)	H2 (mm)	Single-phase	Three phase	P	Weight (kg)
												H3(mm)			
BWI 4-2	72	131	96	115	136	305	125	158	93.5	75	90	174	174	G11/4	8
BWI 4-3	72	136	96	108	155	316	125	158	93.5	75	90	197	188	G11/4	10
BWI 4-4	90	154	96	126	155	334	125	158	93.5	75	90	197	188	G11/4	11.5
BWI 4-5	108	207	125	179	175	396	140	178	102	90	90	238	215	G1 1/4	12.5
BWI 4-6	144	243	125	215	175	432	140	178	102	90	90	238	215	G11/4	15

Model	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H1 (mm)	H2 (mm)	Single-phase	Three phase	P	Weight (kg)
												H3(mm)			
BWI 5-2	72	131	96	115	136	305	125	158	93.5	75	90	174	174	G11/4	8
BWI 5-3	72	136	96	108	155	316	125	158	93.5	75	90	197	188	G1 1/4	10
BWI 5-4	90	154	96	126	155	334	125	158	93.5	75	90	197	188	G11/4	11.5
BWI 5-5	108	207	125	179	175	396	140	178	102	90	90	238	215	G11/4	12.5
BWI 5-6	144	243	125	215	175	432	140	178	102	90	90	238	215	G11/4	15