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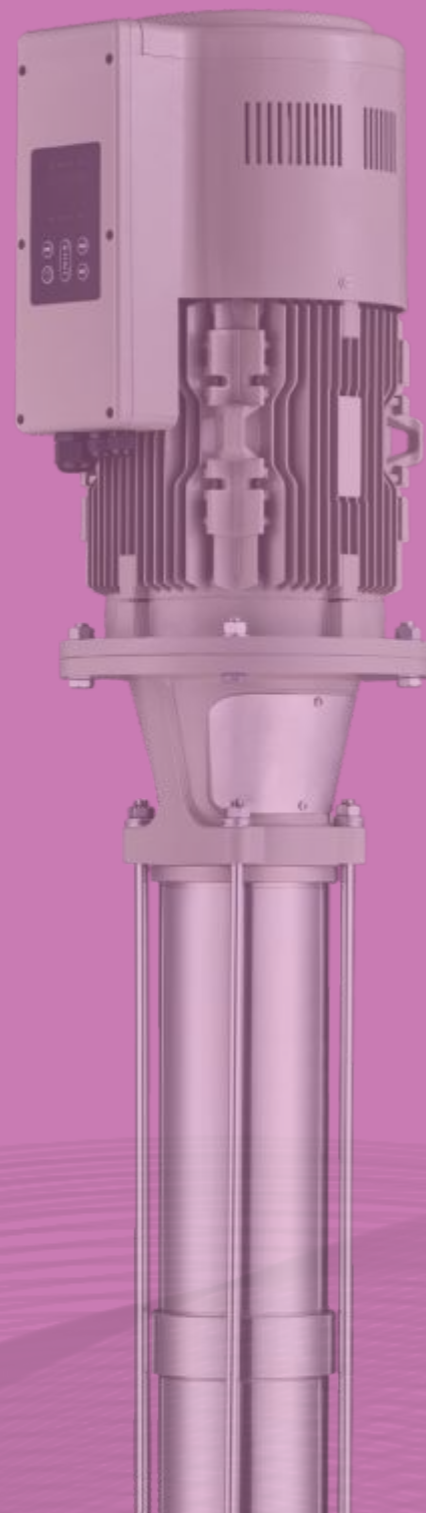
# CVHS / CVMH

HIGH-PRESSURE VERTICAL  
MULTISTAGE CENTRIFUGAL PUMP



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## Introduction

CVHS high-pressure vertical multistage centrifugal pumps are designed to withstand the application of certain fluid solutions in high-pressure places, such as carpet cleaning, boiler water supply, hot water pressure cleaning machines and other industries, through customized design of mechanical seals and fluid spare parts. Our company uses ultra-advanced technology to develop the CVHS/CVMH high-pressure vertical multi-stage centrifugal pump, which is equipped with a permanent magnet motor that runs at the speed of 5,200 rpm for a long time, achieving a technological breakthrough with one pump pressure up to 1,000 m.

## Pump material

Stainlesssteel(AISI304/316)  
Duplex stainless steel(2205)

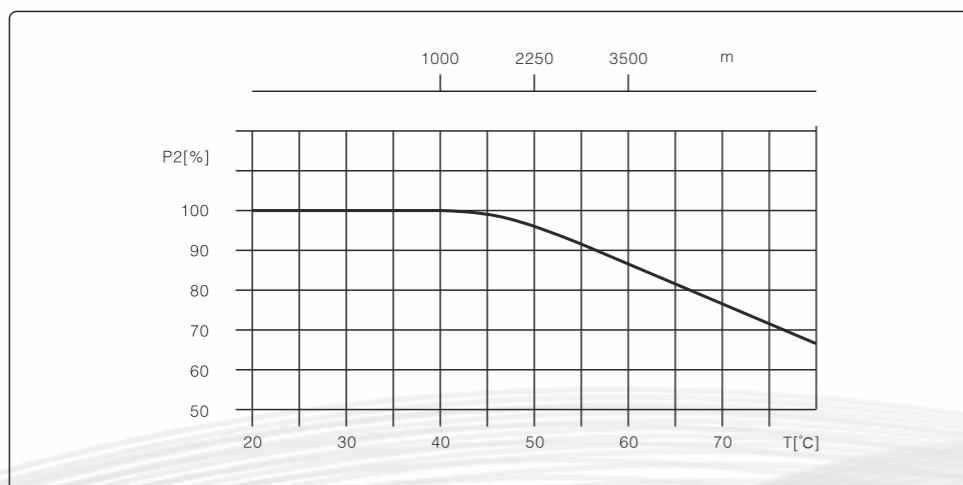
## Pipe connection

CVHS :  
DIN flange

CVMH :  
DIN flange  
Clamp connection

## Ambient temperature

If the ambient temperature exceeds the 40 °C or the pump is installed at an altitude exceeding 1000 m, the motor output power P2 will decrease. In such cases, it necessary to use a motor with a higher rated output.



## Motor

- Totally enclosed, fan-cooled, 2-pole standard motors
- Enclosure class: IP55
- Insulation class: F
- Voltage: 3x380-415V

## Liquid temperature °C

- Normal temperature pump: -15°C to +70°C

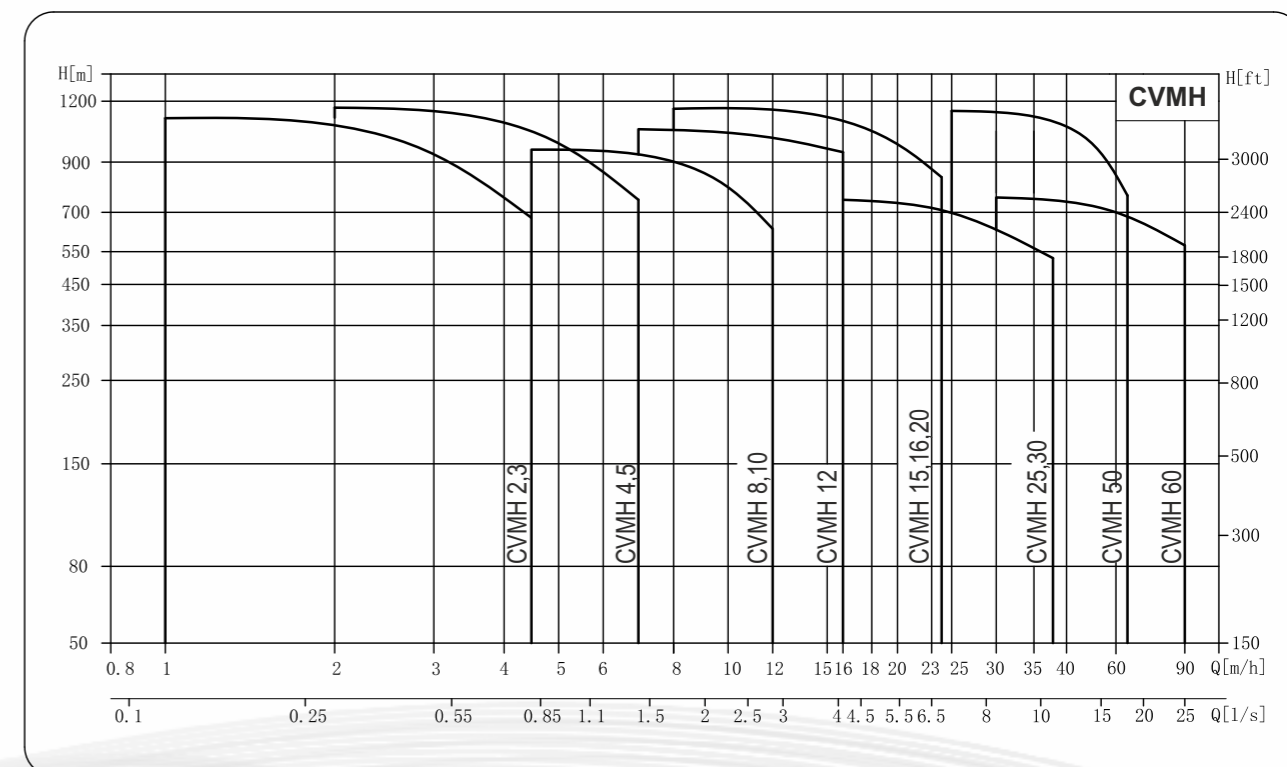
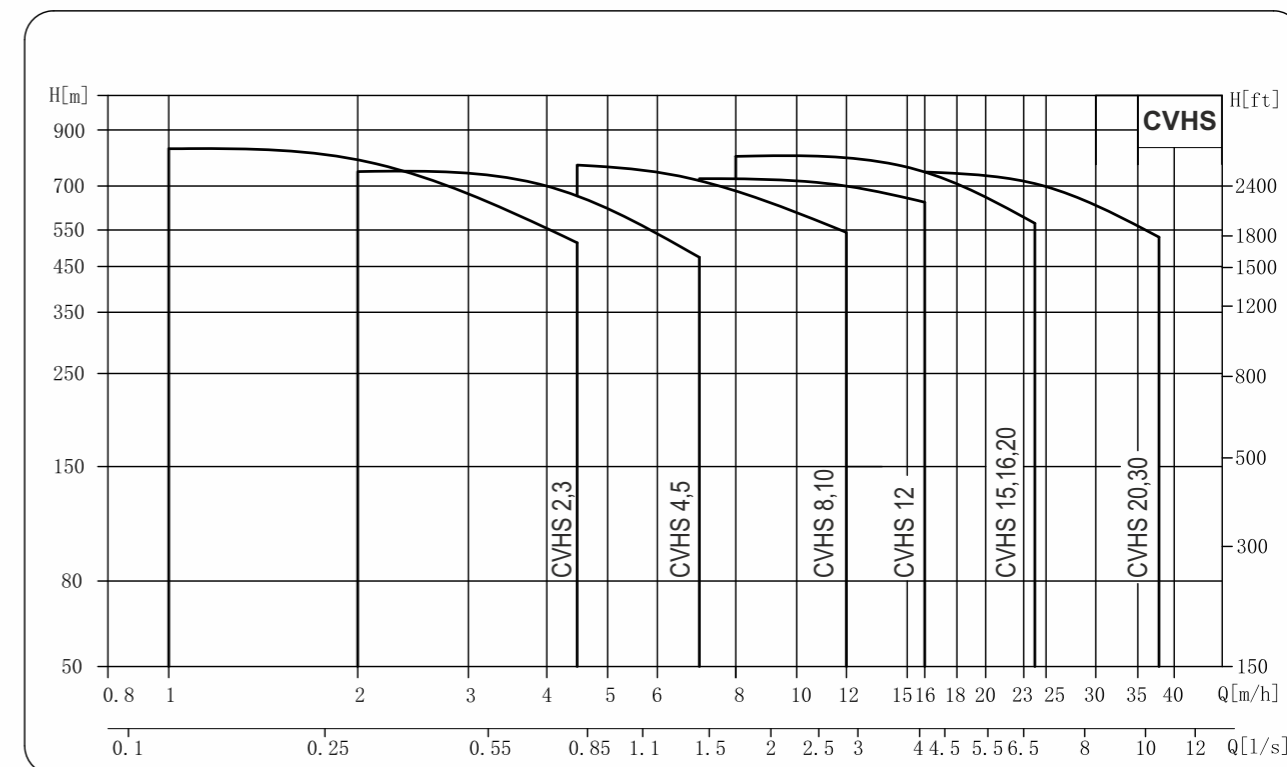
## Performance curves

- All curves are based on the test value of the motor at a constant speed of 5200rpm, and the practical application can be adjusted to the selection of the head in the speed range of 4800-5350rpm.
- Tolerances to ISO 9906
- Measurements have been made with airless water at a temperature of 20 °C
- The curves apply to the following kinematic viscosity: =1 mm<sup>2</sup>/s
- Select a best efficiency of the pump which is operating within the bold curve of the pump performance.

## Pump operating conditions

- Pumping liquids which are thin, clean, non-flammable, non-combustible or non-explosive liquids, not containing solid particles or fibers.
- Maximum ambient temperature: +40 °C
- Maximum altitude above sea level: 1000 m

## Pump performance range



### CVHS minimum inlet perssure,NPSH

Cavitation may occur if the following conditions exist during the operation of the water pump:

- The water tank or pool is lower than the water pump inlet;
- High liquid temperature;
- Actual flow significantly greater than rated flow;
- Pressure in the pump lower than the vaporization pressure of the conveying liquid.

To avoid cavitation, make sure there is a minimum pressure on the inlet side of the pump. The maximum suction rage H (m) can be calculated as follows:

$$H = P_b * 10.2 - NPSH - H_f - H_v - H_s$$

$P_b$ =Atmospheric pressure (atmospheric pressure can be set to 1bar), in closed system,  $P_b$  is system pressure

$H_f$ =Net positive suction head (can be read from the maximum possible flow rate of the pump on the NPSH curve)

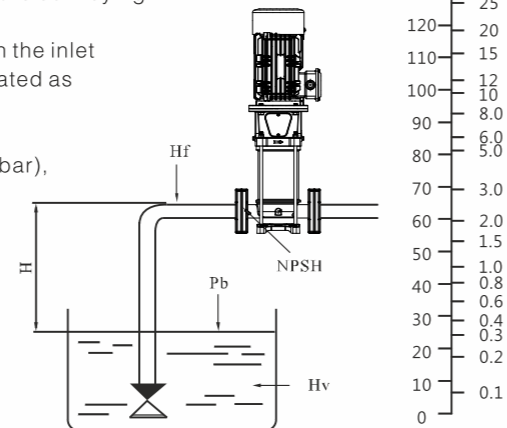
$H_f$ =Pipeline loss at inlet

$H_v$ =Vaporization pressure

$H_s$ =Safety margin=Minimum 0.5m head

If the calculated value of H is positive, the pump can be operated at the maximum suction rage H.

If the calculated H is negative, there must be a head with minimum inlet pressure H.



Make sure that the pump is not in a cavitation stare

### CVMH minimum inlet perssure,NPSH

Cavitation may occur if the following conditions exist during the operation of the water pump:

- The water tank or pool is lower than the water pump inlet;
- High liquid temperature;
- Actual flow significantly greater than rated flow;
- Pressure in the pump lower than the vaporization pressure of the conveying liquid.

To avoid cavitation, make sure there is a minimum pressure on the inlet side of the pump. The maximum suction rage H (m) can be calculated as follows:

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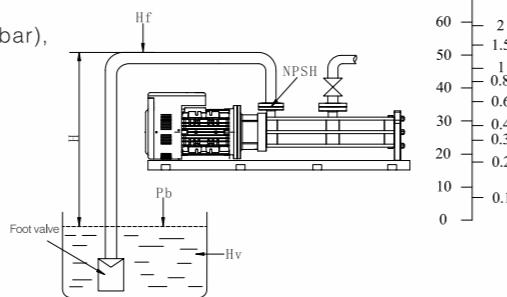
$H_f$ =Pipeline loss at inlet

$H_v$ =Vaporization pressure

$H_s$ =Safety margin=Minimum 0.5m head

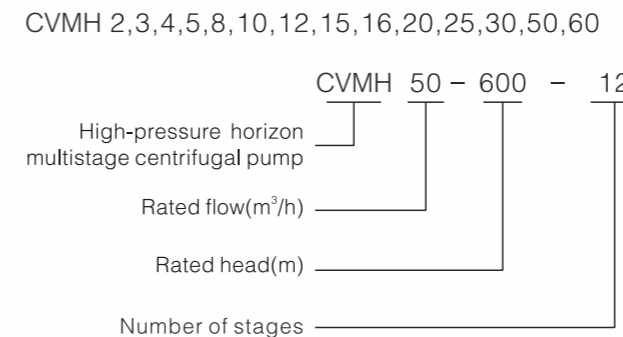
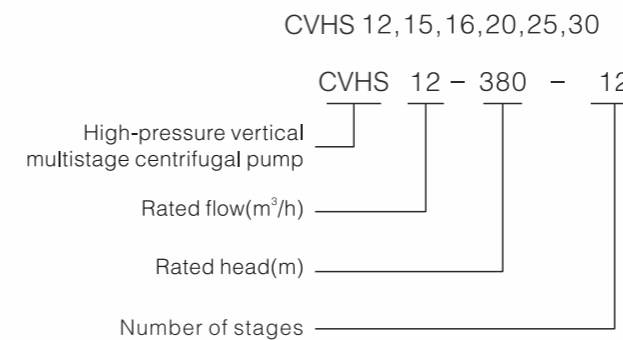
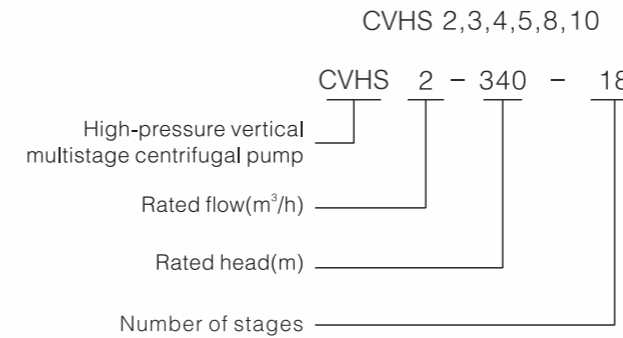
If the calculated value of H is positive, the pump can be operated at the maximum suction rage H.

If the calculated H is negative, there must be a head with minimum inlet pressure H.



Make sure that the pump is not in a cavitation stare

### Model specification



### Applications

- Typical applications:
- High-pressure water delivery
- Industrial boosting
- High-pressure cleaning
- Reverse osmosis system
- Main network boosting
- Water treatment

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- High-pressure water delivery
- Industrial boosting
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- Water treatment

**Product range introduction**

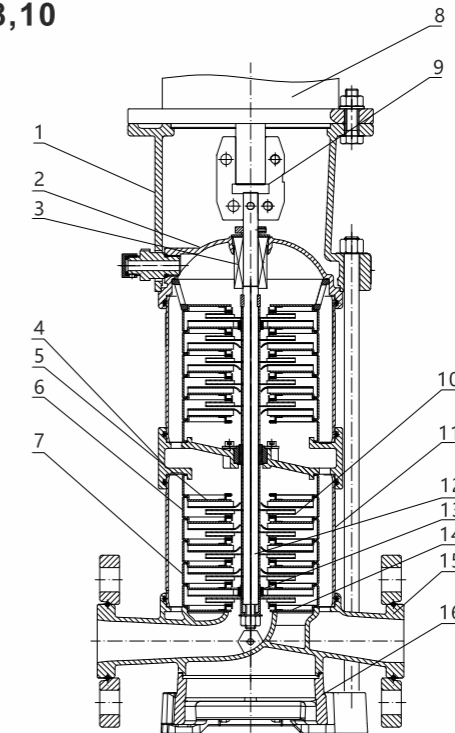
**CVHS**

Parameter	2	3	4	5	8	10	12	15	16	20	25	30
Rated flow rate [m³/h]	2	3	4	5	8	10	12	15	16	20	25	30
Rated flow rate [l/s]	0.56	0.83	1.1	1.39	2.2	2.78	3.3	4.17	4.4	5.6	6.9	8.3
Flow rate [m³/h]	1~4.5	1.2~4.5	2~7	2~7	4.5~12	4.5~12	7~16	8~24	8~24	8~24	16~38.5	16~38.5
Flow rate [l/s]	0.28~1.25	0.33~1.25	0.56~1.94	0.56~1.94	1.25~3.33	1.25~3.33	1.94~4.44	2.22~6.67	2.22~6.67	2.22~6.67	4.44~10.56	4.44~10.56
Maximum pressure [bar]	86	83	78	77	84	84	73	75	76	81	76	77
Power [kW]	5.5~15	5.5~15	7.5~15	7.5~15	15~30	15~30	22~45	22~45	22~55	22~55	45~90	45~90
Temperature range [°C]	-15~70											
Highest efficiency [%]	56	56	68	68	63	63	65	68	68	68	68	68
CVHS Pipe connection												
DIN flange	DN25	DN25	DN32	DN32	DN40	DN40	DN50	DN50	DN50	DN50	DN50	DN50

**CVMH**

Parameter	2	3	4	5	8	10	12	15	16	20	25	30	50	60
Rated flow rate [m³/h]	2	3	4	5	8	10	12	15	16	20	25	30	50	60
Rated flow rate [l/s]	0.56	0.83	1.11	1.39	2.22	2.78	3.33	4.17	4.44	5.56	6.94	8.33	13.89	16.67
Flow rate [m³/h]	1~4.5	1.2~4.5	2~7	2~7	4.5~12	4.5~12	7~16	8~24	8~24	8~24	16~38.5	16~38.5	25~65	30~90
Flow rate [l/s]	0.28~1.25	0.33~1.25	0.56~1.94	0.56~1.94	1.25~3.33	1.25~3.33	1.94~4.44	2.22~6.67	2.22~6.67	2.22~6.67	4.44~10.7	4.44~10.7	6.94~18.06	8.33~25
Maximum pressure [bar]	86	116	77	121	84	105	73	106	106	118	76	77	120	78
Power [kW]	11~15	11~18.5	15~30	15~30	30~37	30~37	45~55	45~75	45~75	45~75	45~90	45~90	110~200	110~200
Temperature range [°C]	-15~+70													
Highest efficiency [%]	56	56	68	68	63	63.5	65	68	68	68	68	69	75	75
CVHS Pipe connection														
DIN flange	DN32	DN32	DN32	DN32	DN40	DN40	DN50	DN50	DN50	DN50	DN50	DN50	DN80	DN80
Ferrule joint	DN40	DN40	DN40	DN40	DN50	DN50	DN60	DN60	DN60	DN60	DN60	DN60	/	/

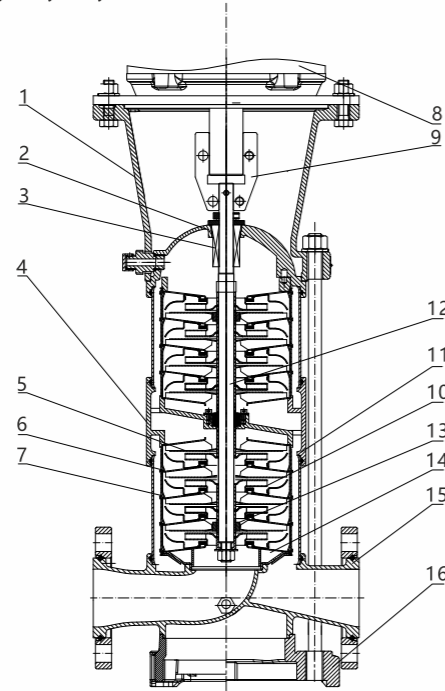
**Structure CVHS 2,3,4,5,8,10**



**Materials CVHS 2,3,4,5,8,10**

No.	Spare parts	Materials	GB	EN DIN	AISI/ASTM
1	Bracket	Ductile cast iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTMA53665-45-12
2	Seal base	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304
3	Mechanical seal	/	/	/	/
4	Support deflector	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304
5	Top diffuser	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4302	AISI304
6	Diffuser	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
7	Support diffuser	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4304	AISI304
8	Motor	/	/	/	/
9	Coupling	Ductile cast iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7 EN 10088-1.4301	ASTM A536 65-45-12
10	Impeller	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304
11	Cylinder	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4302	AISI304
12	Shaft	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
13	Bearing	WC	/	/	/
14	Inducer	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
15	Inlet&outlet chamber	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304
16	Base	Ductile cast iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTM A536 65-45-12

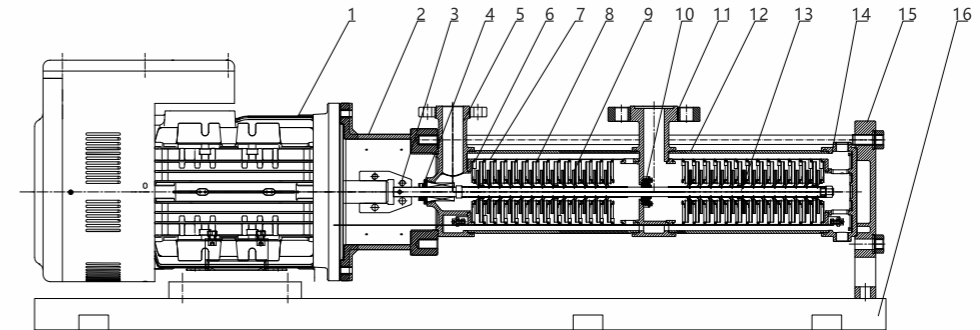
Structure CVHS 12,15,16,20,25,30



Materials CVHS 12,15,16,20,25,30

No.	Spare parts	Materials	GB	EN DIN	AISI/ASTM
1	Bracket	Ductile cast iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTM A536 65-45-12
2	Seal base	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304
3	Mechanical seal	/	/	/	/
4	Support deflector	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304
5	Top diffuser	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4302	AISI304
6	Diffuser	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
7	Support diffuser	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4304	AISI304
8	Motor	/	/	/	/
9	Coupling	Ductile cast iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7 EN 10088-1.4301	ASTM A536 65-45-12
10	Impeller	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304
11	Cylinder	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4302	AISI304
12	Shaft	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
13	Bearing	WC	/	/	/
14	Inducer	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
15	Intel&outlet chamber	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304
16	Base	Ductile cast iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTM A536 65-45-12

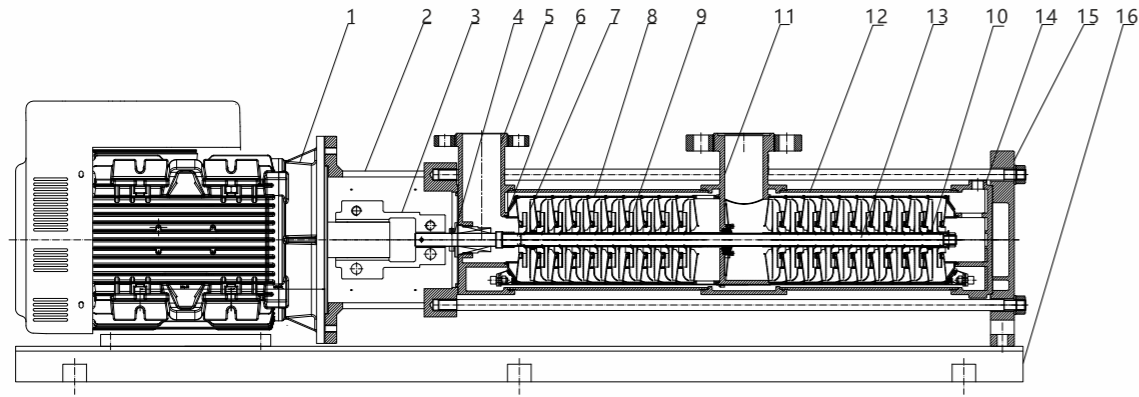
Structure CVMH 2,3,4,5,8,10



Materials CVMH 2,3,4,5,8,10

No.	Spare parts	Materials	GB	EN DIN	AISI/ASTM
1	Motor	/	/	/	/
2	Bracket	Ductile cast iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTM A53665-45-12
3	Coupling	Ductile cast iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTM A53665-45-12
4	Mechanical seal	/	/	/	/
5	Intel chamber	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
6	Inducer	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
7	Support diffuser	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
8	Diffuser	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
9	Impeller	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
10	Bearing	Alloy	/	/	/
11	Outlet chamber	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
12	Cylinder	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
13	Shaft	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
14	Return socket	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
15	Brace brace	Ductile cast iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTM A53665-45-12
16	Base	45#	/	/	/

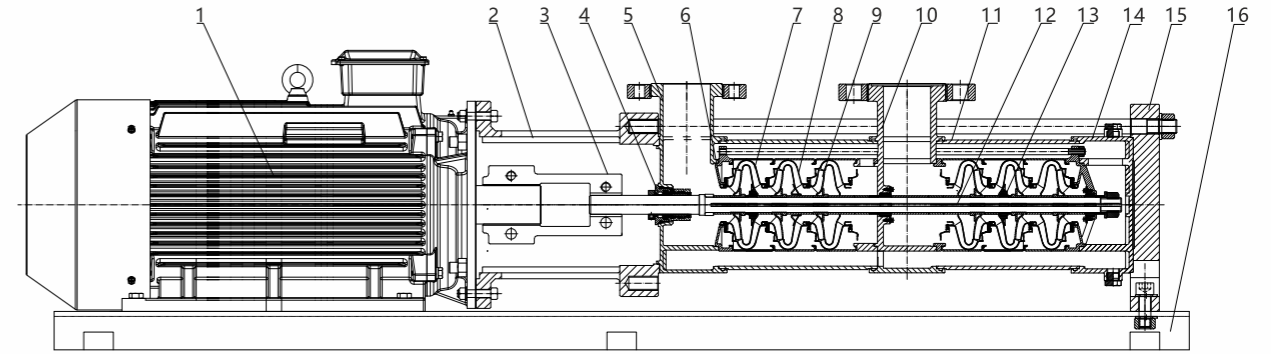
**Structure CVMH 12,15,16,20,25,30**



**Materials CVMH 12,15,16,20,25,30**

No.	Spare parts	Materials	GB	EN DIN	AISI/ASTM
1	Motor	/	/	/	/
2	Bracket	Ductile cast iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTM A53665-45-12
3	Coupling	Ductile cast iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTM A53665-45-12
4	Mechanical seal	/	/	/	/
5	Intel chamber	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
6	Inducer	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
7	Support diffuser	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
8	Diffuser	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
9	Impeller	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
10	Bearing	Alloy	/	/	/
11	Outlet chamber	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
12	Cylinder	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
13	Shaft	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
14	Return socket	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
15	Brace brace	Ductile cast iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTM A53665-45-12
16	Base	45#	/	/	/

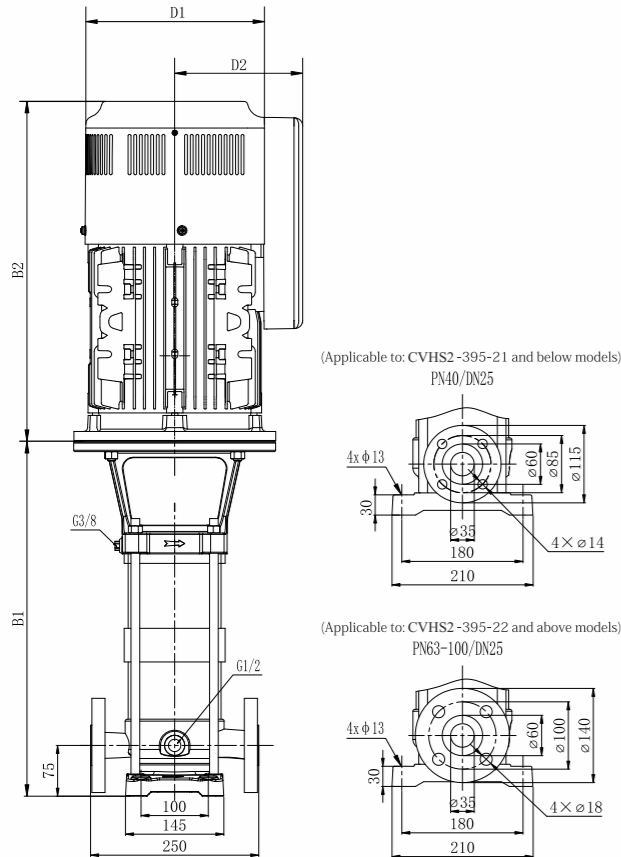
**Structure CVMH 50**



**Materials CVMH 50,60**

No.	Spare parts	Materials	GB	EN DIN	AISI/ASTM
1	Motor	/	/	/	/
2	Bracket	Ductile cast iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTM A53665-45-12
3	Coupling	Ductile cast iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTM A53665-45-12
4	Mechanical seal	/	/	/	/
5	Intel chamber	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
6	Inducer	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
7	Support diffuser	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
8	Diffuser	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
9	Impeller	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
10	Bearing	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
11	Outlet chamber	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
12	Cylinder	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
13	Shaft	Alloy	/	/	/
14	Return socket	Stainless steel	GB/T20878-06Cr19Ni10	EN 10088-1.4303	AISI304
15	Brace brace	Ductile cast iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTM A53665-45-12
16	Base	45#	/	/	/

Installation dimensions and weight

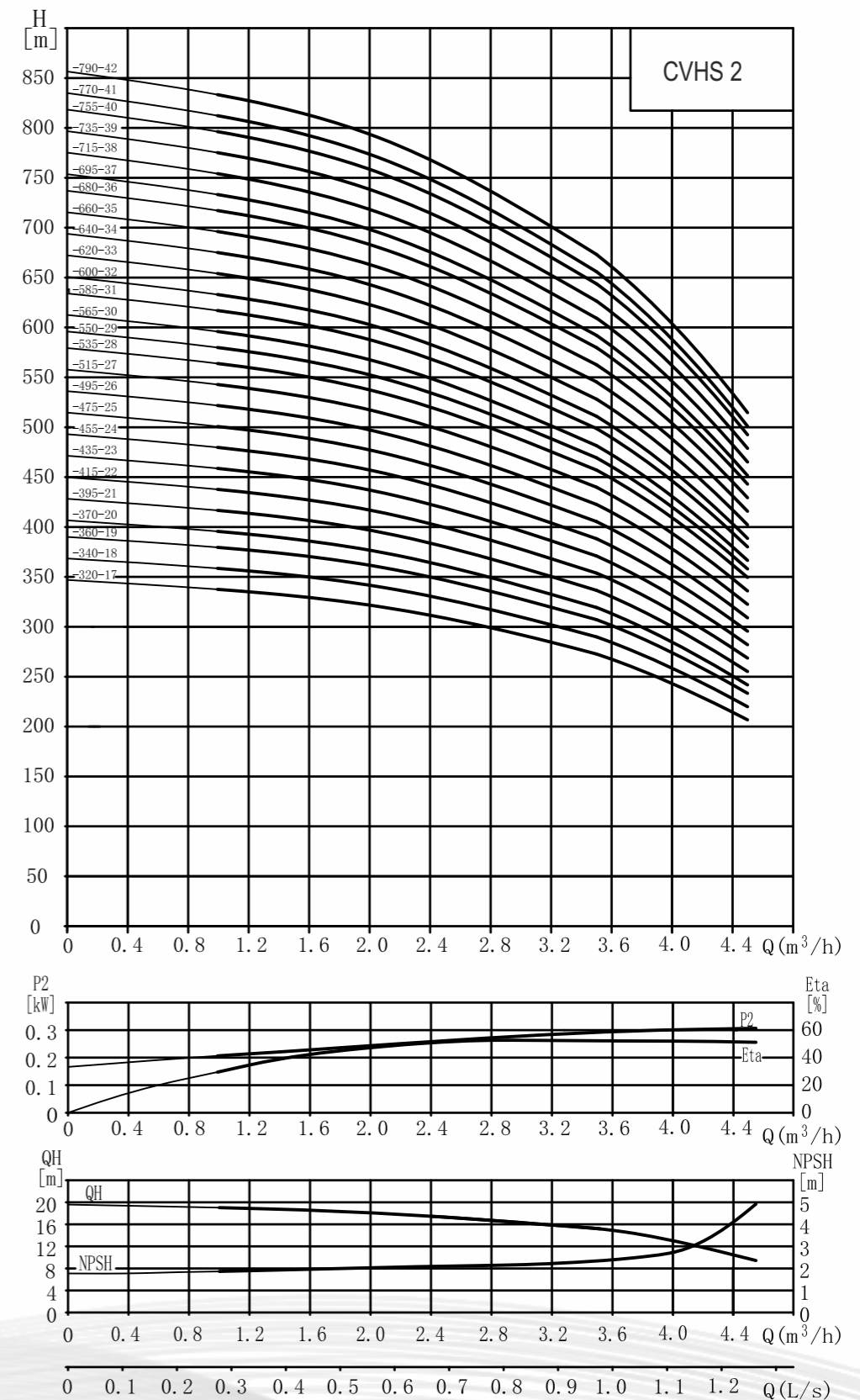


Model	Dimension ( mm )					Weight (kg)
	B1	B2	B1+B2	D1	D2	
2-320-17	633	421	1054	220	145	59
2-340-18	651	421	1072	220	145	60
2-360-19	669	421	1090	220	145	60
2-375-20	687	421	1108	220	145	61
2-395-21	705	421	1126	220	145	64
2-415-22	723	421	1144	220	145	67
2-435-23	741	421	1162	220	145	67
2-455-24	759	421	1180	220	145	68
2-475-25	777	421	1198	220	145	68
2-495-26	795	421	1216	220	145	69
2-515-27	813	421	1234	220	145	69
2-535-28	851	517	1368	260	172	82
2-550-29	869	517	1386	260	172	82
2-565-30	887	517	1404	260	172	83
2-585-31	905	517	1422	260	172	84
2-600-32	923	517	1440	260	172	86
2-620-33	941	517	1458	260	172	86
2-640-34	959	517	1476	260	172	87
2-660-35	977	517	1494	260	172	87
2-680-36	995	517	1512	260	172	88
2-695-37	1013	517	1530	260	172	88
2-715-38	1031	517	1548	260	172	88
2-735-39	1049	517	1566	260	172	89
2-755-40	1067	517	1584	260	172	89
2-770-41	1085	517	1602	260	172	95
2-790-42	1103	517	1620	260	172	95

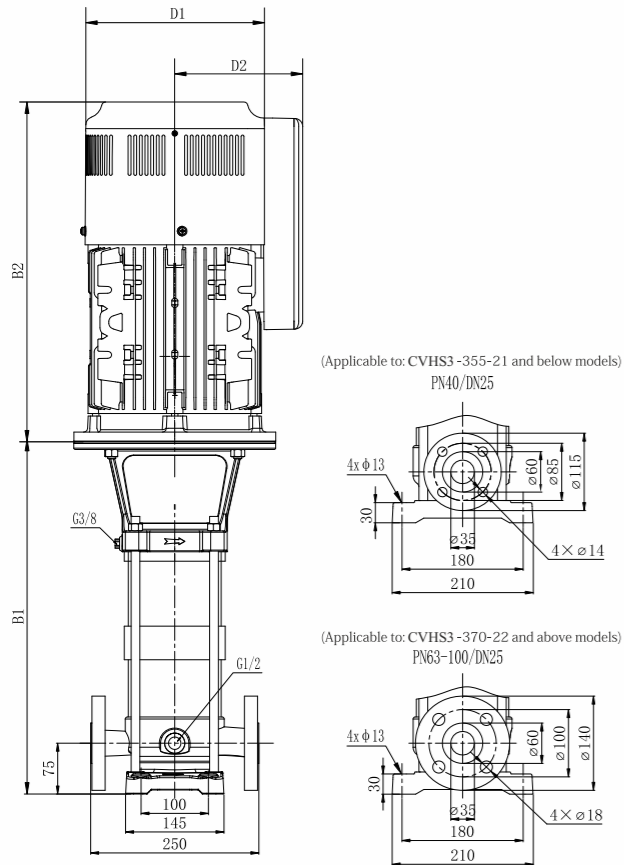
Performance data

Model	Power(kW)	Q (m³/h)	H (m)											
			1.0	1.2	1.6	2.0	2.4	2.8	3.2	3.5	4.0	4.5		
2-320-17	5.5		338	333	329	320	314	303	287	272	242	208		
2-340-18	5.5		359	354	350	340	334	322	306	289	257	221		
2-360-19	5.5		380	375	371	360	353	341	324	306	273	234		
2-375-20	5.5		396	391	386	375	368	355	337	319	283	243		
2-395-21	7.5		417	411	407	395	387	374	355	336	299	256		
2-415-22	7.5		438	432	427	415	407	393	373	353	314	269		
2-435-23	7.5		459	453	448	435	427	412	391	370	329	283		
2-455-24	7.5		481	474	468	455	446	431	409	387	345	296		
2-475-25	7.5		502	495	489	475	466	450	427	404	360	310		
2-495-26	7.5		523	515	509	495	486	469	445	422	376	323		
2-515-27	7.5		544	536	530	515	505	488	463	439	391	336		
2-535-28	11		565	557	551	535	525	507	481	456	407	350		
2-550-29	11		581	573	566	550	540	521	495	468	417	358		
2-565-30	11		597	589	582	565	554	535	508	480	427	367		
2-585-31	11		618	609	602	585	574	554	526	497	443	380		
2-600-32	11		634	625	618	600	588	568	539	510	453	388		
2-620-33	11		655	646	638	620	608	587	557	527	469	402		
2-640-34	11		676	667	659	640	628	606	575	544	484	415		
2-660-35	11		697	687	680	660	647	626	593	561	499	428		
2-680-36	11		718	708	700	680	667	645	611	578	515	442		
2-695-37	11		734	724	716	695	682	659	624	590	525	450		
2-715-38	11		755	745	736	715	701	678	642	608	541	464		
2-735-39	11		776	766	757	735	721	697	660	625	556	477		
2-755-40	11		798	786	777	755	741	716	679	642	571	490		
2-770-41	15		814	802	793	770	755	730	692	654	582	499		
2-790-42	15		835	823	813	790	775	749	710	671	597	512		

Performance curve



Installation dimensions and weight

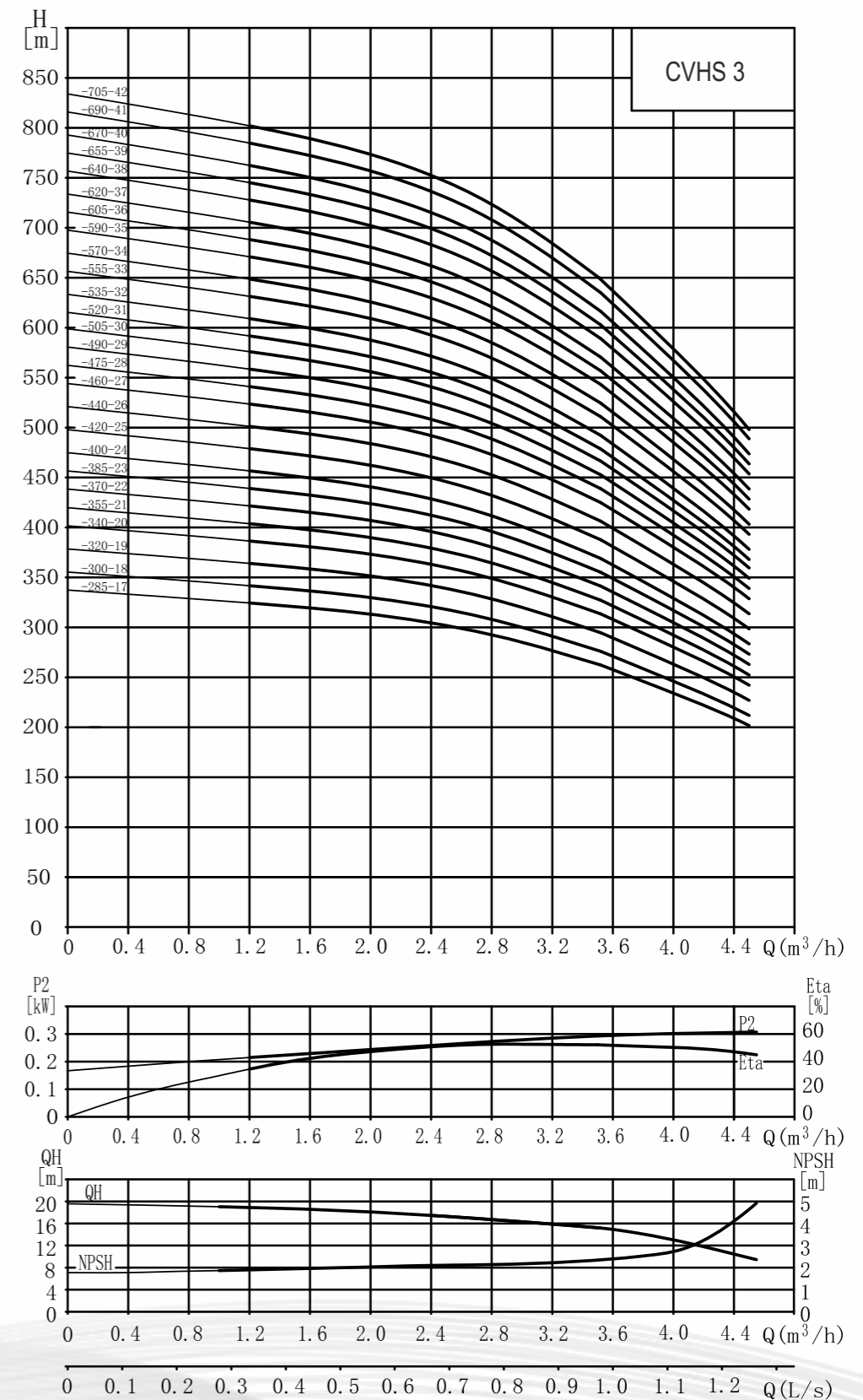


Model	Dimension (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
3-285-17	633	421	1054	220	145	59
3-300-18	651	421	1072	220	145	60
3-320-19	669	421	1090	220	145	60
3-340-20	687	421	1108	220	145	61
3-355-21	705	421	1126	220	145	64
3-370-22	723	421	1144	220	145	67
3-385-23	741	421	1162	220	145	67
3-400-24	759	421	1180	220	145	68
3-420-25	777	421	1198	220	145	68
3-440-26	795	421	1216	220	145	69
3-460-27	813	421	1234	220	145	69
3-475-28	851	517	1368	260	172	82
3-490-29	869	517	1386	260	172	82
3-505-30	887	517	1404	260	172	83
3-520-31	905	517	1422	260	172	84
3-535-32	923	517	1440	260	172	86
3-555-33	941	517	1458	260	172	86
3-570-34	959	517	1476	260	172	87
3-590-35	977	517	1494	260	172	87
3-605-36	995	517	1512	260	172	88
3-620-37	1013	517	1530	260	172	88
3-640-38	1031	517	1548	260	172	88
3-655-39	1049	517	1566	260	172	89
3-670-40	1067	517	1584	260	172	89
3-690-41	1085	517	1602	260	172	95
3-705-42	1103	517	1620	260	172	95

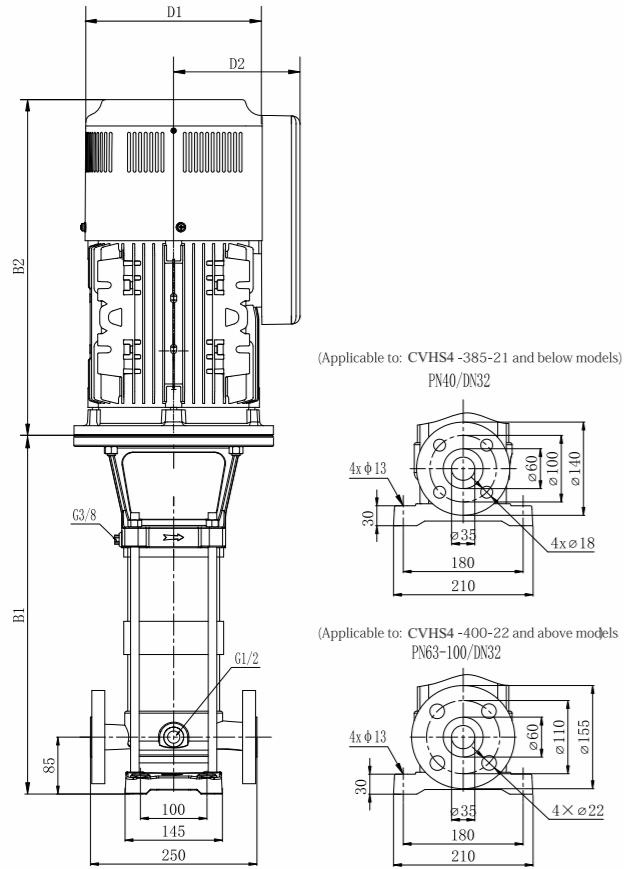
Performance data

Model	Power(kW)	Q (m³/h)	H (m)										
			1.2	1.6	2.0	2.4	2.8	3.0	3.2	3.5	4.0	4.5	
3-285-17	5.5		324	320	311	304	294	285	278	262	232	198	
3-300-18	5.5		341	337	327	320	309	300	293	276	244	208	
3-320-19	5.5		363	359	349	342	330	320	312	295	261	223	
3-340-20	5.5		386	381	370	363	350	340	332	314	278	238	
3-355-21	7.5		403	398	387	379	366	355	346	327	290	248	
3-370-22	7.5		421	416	404	396	382	370	361	341	303	258	
3-385-23	7.5		438	433	420	412	398	385	376	355	315	268	
3-400-24	7.5		456	450	437	428	413	400	391	369	327	278	
3-420-25	7.5		478	472	459	449	434	420	411	388	344	293	
3-440-26	7.5		500	494	480	470	454	440	430	406	361	308	
3-460-27	7.5		523	516	502	492	475	460	450	425	377	323	
3-475-28	11		540	534	518	508	490	475	465	439	390	333	
3-490-29	11		557	551	535	524	506	490	479	453	402	343	
3-505-30	11		575	568	552	541	522	505	494	467	414	353	
3-520-31	11		591	584	567	555	536	520	507	479	424	361	
3-535-32	11		608	601	583	571	551	535	522	492	436	371	
3-555-33	11		630	623	605	592	572	555	541	511	453	386	
3-570-34	11		647	640	621	608	587	570	556	525	465	396	
3-590-35	11		670	662	642	630	608	590	575	543	482	411	
3-605-36	11		687	679	659	646	623	605	590	557	493	421	
3-620-37	11		704	696	675	662	639	620	604	571	505	430	
3-640-38	11		726	718	697	683	659	640	624	589	522	445	
3-655-39	11		744	735	713	699	675	655	639	603	534	455	
3-670-40	11		761	752	730	715	690	670	653	617	546	465	
3-690-41	15		783	774	751	736	711	690	673	635	563	480	
3-705-42	15		800	791	768	752	726	705	687	649	575	490	

Performance curve



Installation dimensions and weight

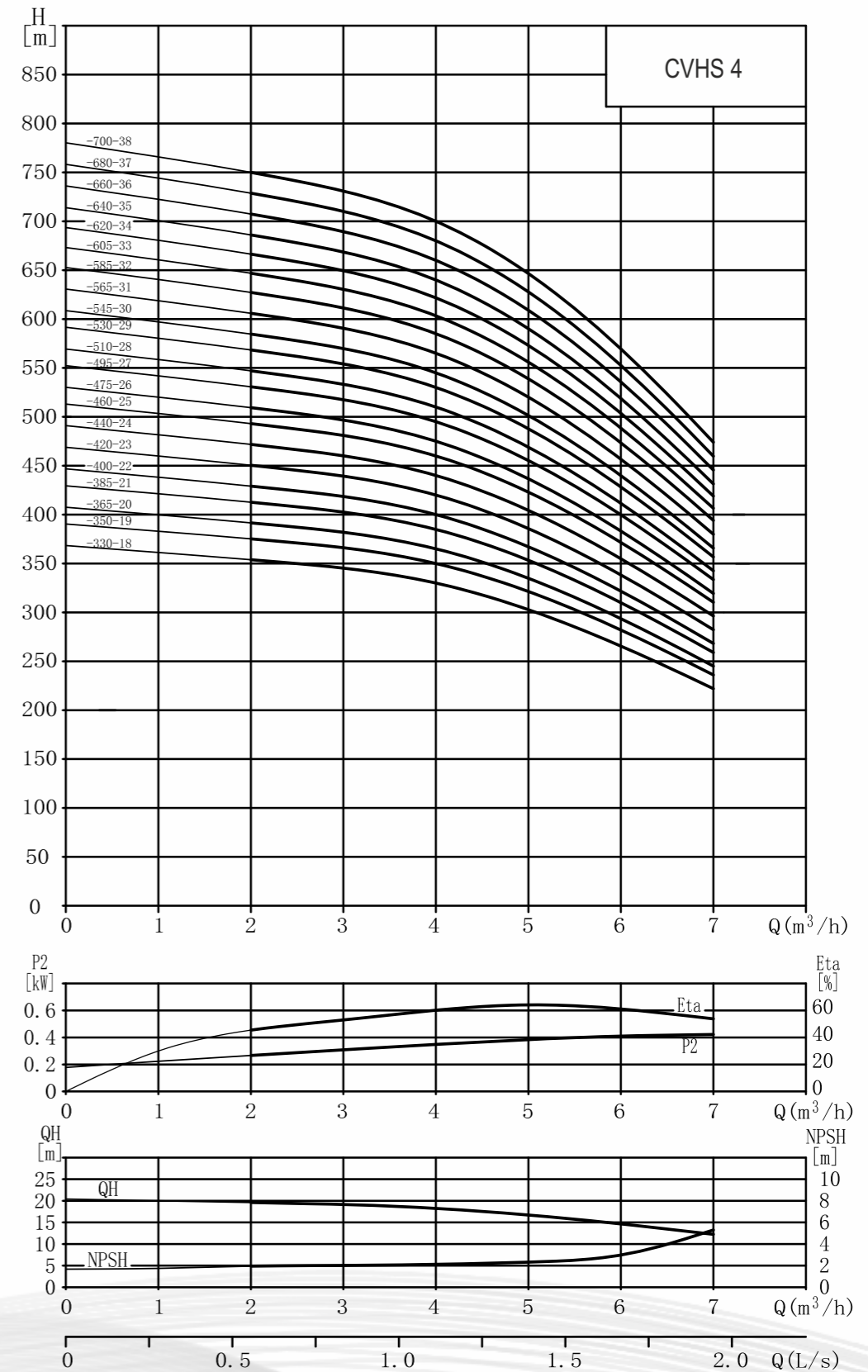


Model	Dimension ( mm )					Weight (kg)
	B1	B2	B1+B2	D1	D2	
4-330-18	661	421	1082	220	145	64
4-350-19	679	421	1100	220	145	64
4-365-20	717	517	1234	260	172	77
4-385-21	735	517	1252	260	172	78
4-400-22	753	517	1270	260	172	81
4-420-23	771	517	1288	260	172	81
4-440-24	789	517	1306	260	172	81
4-460-25	807	517	1324	260	172	82
4-475-26	825	517	1342	260	172	82
4-495-27	843	517	1360	260	172	83
4-510-28	861	517	1378	260	172	83
4-530-29	879	517	1396	260	172	88
4-545-30	897	517	1414	260	172	89
4-565-31	915	517	1432	260	172	89
4-585-32	933	517	1450	260	172	90
4-605-33	951	517	1468	260	172	91
4-620-34	969	517	1486	260	172	93
4-640-35	987	517	1504	260	172	93
4-660-36	1005	517	1522	260	172	94
4-680-37	1023	517	1540	260	172	94
4-700-38	1041	517	1558	260	172	95

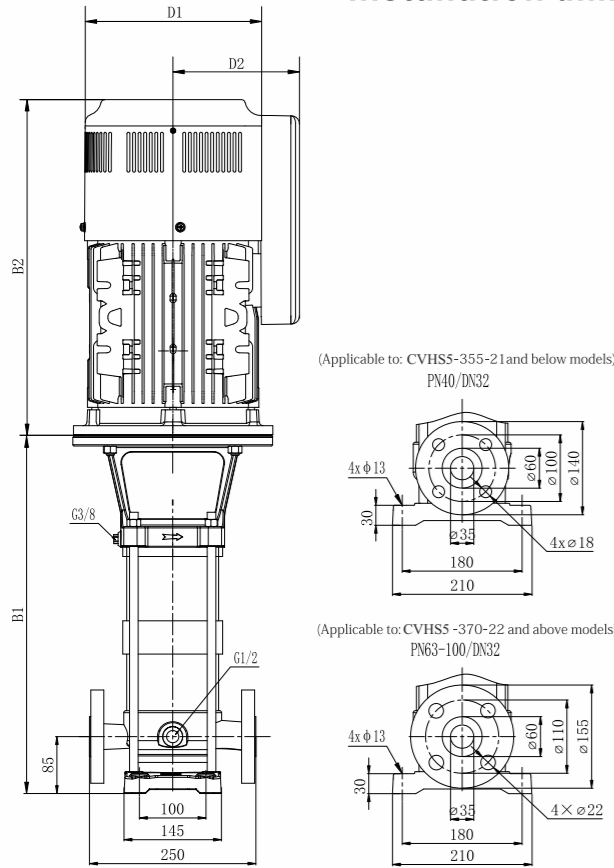
Performance data

Model	Power(kW)	Q (m³/h)	H (m)						
			2	3	4	5	6	7	
4-330-18	7.5		354	345	330	303	266	222	
4-350-19	7.5		375	366	350	321	282	236	
4-365-20	11		392	382	365	335	294	245	
4-385-21	11		413	403	385	353	310	259	
4-400-22	11		429	419	400	367	322	268	
4-420-23	11		451	439	420	386	338	282	
4-440-24	11		472	460	440	404	355	296	
4-460-25	11		493	481	460	423	372	310	
4-475-26	11		509	497	475	437	383	320	
4-495-27	11		531	518	495	455	400	334	
4-510-28	11		547	533	510	469	412	343	
4-530-29	15		569	554	530	488	428	357	
4-545-30	15		585	570	545	502	440	366	
4-565-31	15		606	591	565	520	457	380	
4-585-32	15		627	611	585	539	474	394	
4-605-33	15		647	631	603	556	489	407	
4-620-34	15		667	650	622	573	504	419	
4-640-35	15		686	669	640	590	519	431	
4-660-36	15		708	690	660	609	536	446	
4-680-37	15		729	710	680	628	553	460	
4-700-38	15		750	731	700	647	570	474	

Performance curve



Installation dimensions and weight

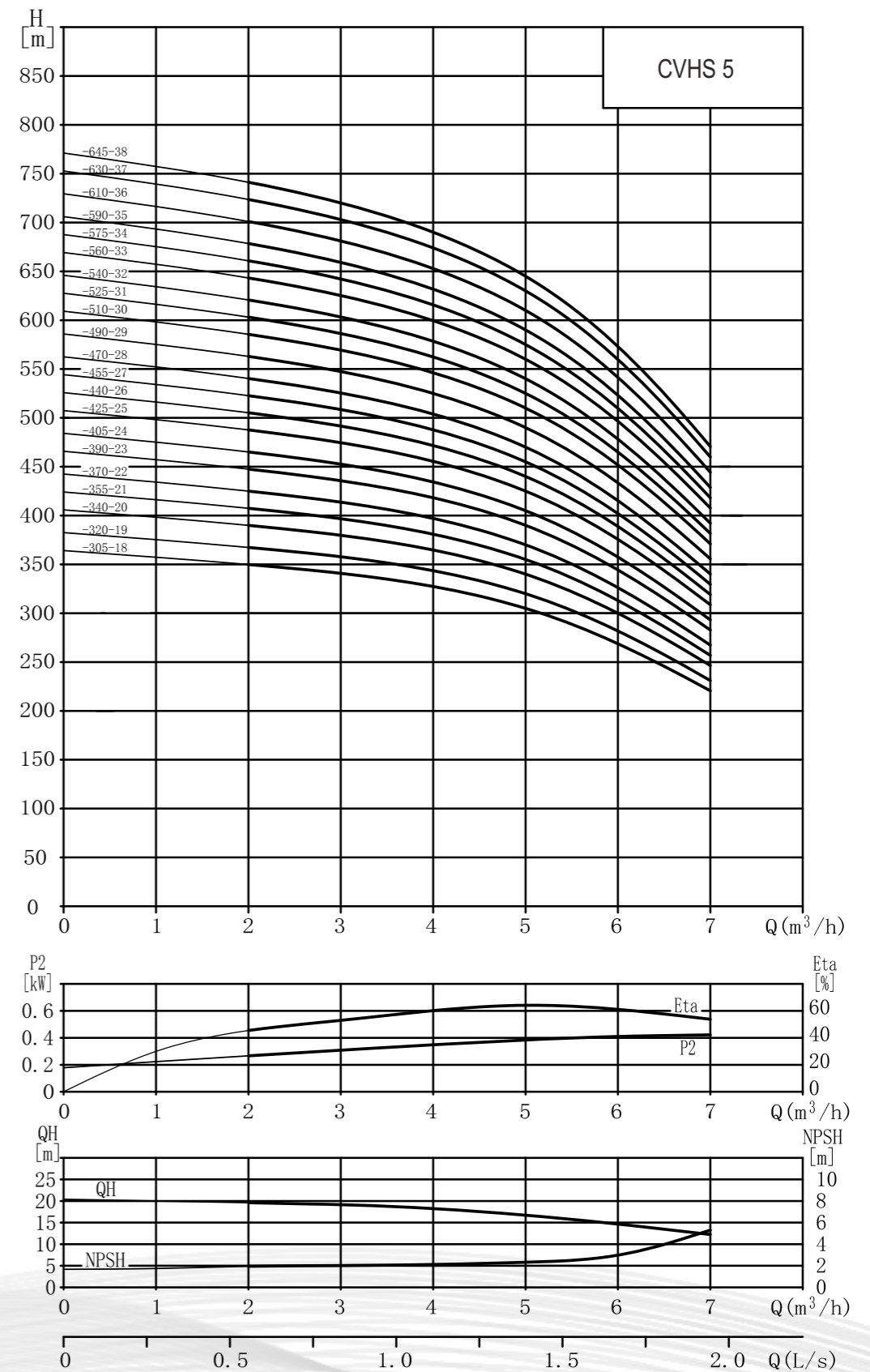


Model	Dimension ( mm )					Weight (kg)
	B1	B2	B1+B2	D1	D2	
5-305-18	661	421	1082	220	145	64
5-320-19	679	421	1100	220	145	64
5-340-20	717	517	1234	260	172	77
5-355-21	735	517	1252	260	172	78
5-370-22	753	517	1270	260	172	81
5-390-23	771	517	1288	260	172	81
5-405-24	789	517	1306	260	172	81
5-425-25	807	517	1324	260	172	82
5-440-26	825	517	1342	260	172	82
5-455-27	843	517	1360	260	172	83
5-470-28	861	517	1378	260	172	83
5-490-29	879	517	1396	260	172	88
5-510-30	897	517	1414	260	172	89
5-525-31	915	517	1432	260	172	89
5-540-32	933	517	1450	260	172	90
5-560-33	951	517	1468	260	172	91
5-575-34	969	517	1486	260	172	93
5-590-35	987	517	1504	260	172	93
5-610-36	1005	517	1522	260	172	94
5-630-37	1023	517	1540	260	172	94
5-645-38	1041	517	1558	260	172	95

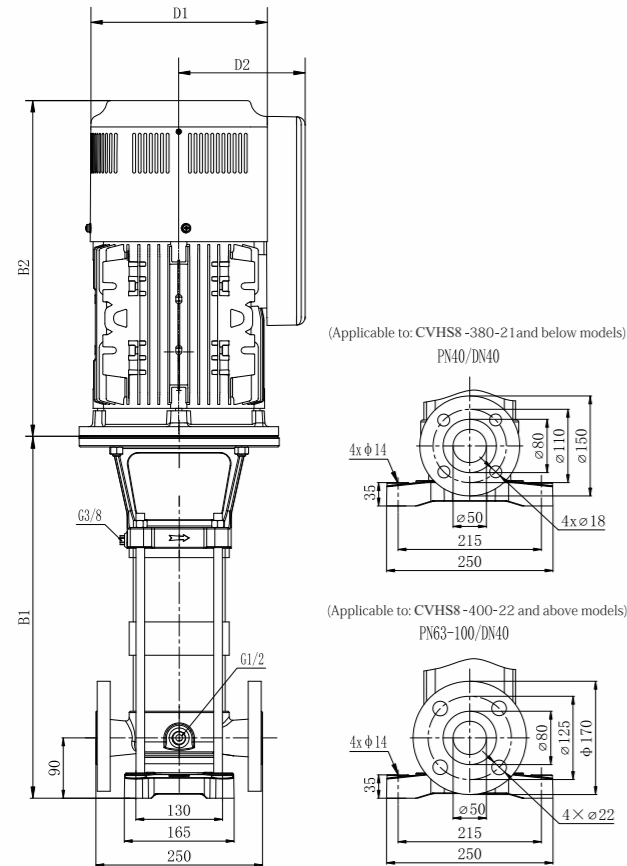
Performance data

Model	Power(kW)	Q (m³/h)	H (m)						
			2	3	4	5	6	7	
5-305-18	7.5		350	341	327	305	269	221	
5-320-19	7.5		367	358	344	320	282	231	
5-340-20	11		390	380	365	340	300	247	
5-355-21	11		408	397	381	355	313	257	
5-370-22	11		425	414	397	370	326	267	
5-390-23	11		448	436	418	390	344	283	
5-405-24	11		465	453	434	405	358	293	
5-425-25	11		488	475	456	425	376	309	
5-440-26	11		505	492	472	440	389	319	
5-455-27	11		523	509	488	455	402	330	
5-470-28	11		541	526	504	470	415	340	
5-490-29	15		563	548	525	490	434	356	
5-510-30	15		586	570	546	510	452	371	
5-525-31	15		603	586	562	525	465	382	
5-540-32	15		621	603	579	540	478	392	
5-560-33	15		643	625	600	560	497	408	
5-575-34	15		661	642	616	575	510	418	
5-590-35	15		679	659	632	590	523	429	
5-610-36	15		701	681	653	610	542	444	
5-630-37	15		724	703	674	630	560	460	
5-645-38	15		741	720	690	645	573	471	

Performance curve



Installation dimensions and weight

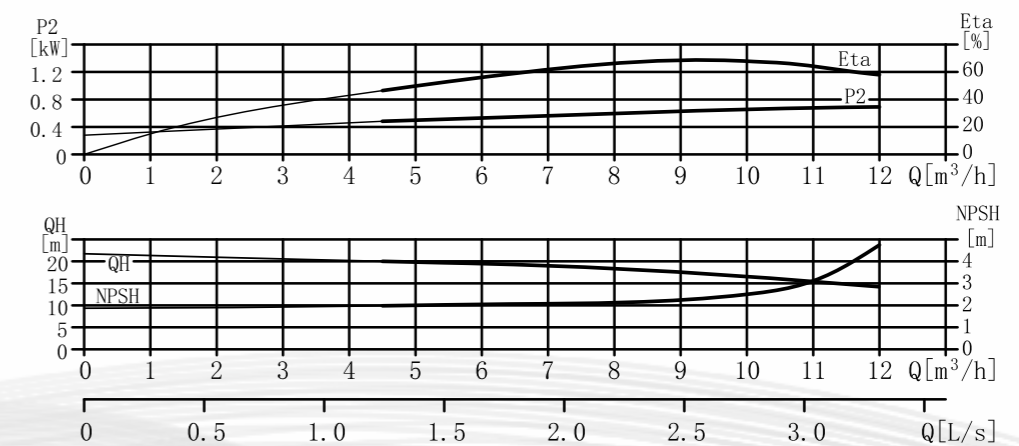
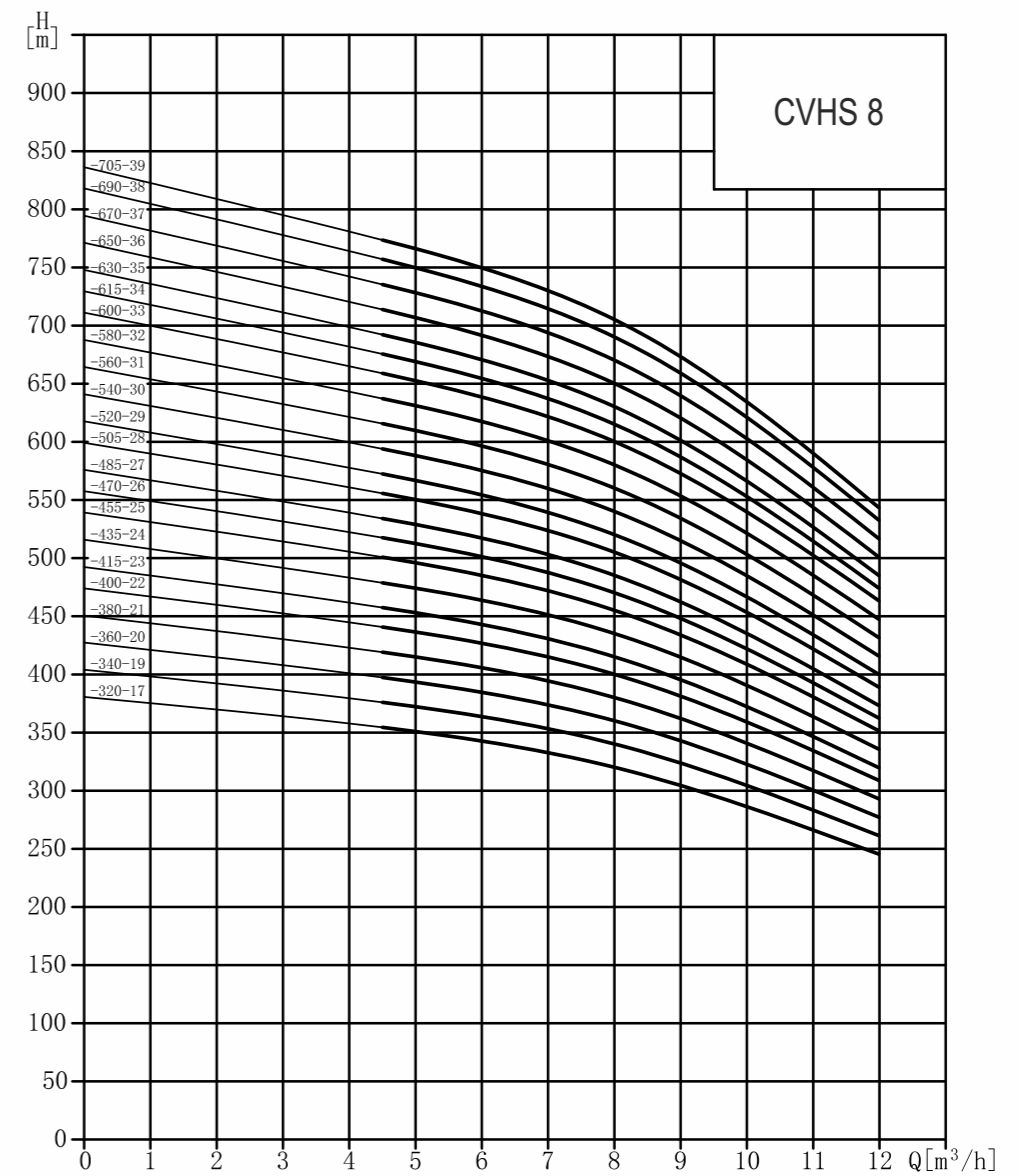


Model	Dimension ( mm )					Weight (kg)
	B1	B2	B1+B2	D1	D2	
8-320-18	866	517	1383	260	172	85
8-340-19	893	517	1410	260	172	86
8-360-20	920	517	1437	260	172	86
8-380-21	947	517	1464	260	172	87
8-400-22	995	517	1512	260	172	103
8-415-23	1022	517	1539	260	172	103
8-435-24	1049	517	1566	260	172	104
8-455-25	1076	517	1593	260	172	104
8-470-26	1103	517	1620	260	172	110
8-485-27	1130	517	1647	260	172	111
8-505-28	1157	517	1674	260	172	111
8-520-29	1184	517	1701	260	172	112
8-540-30	1211	517	1728	260	172	112
8-560-31	1238	517	1755	260	172	113
8-580-32	1295	644	1939	319	234	178
8-600-33	1322	644	1966	319	234	180
8-615-34	1349	644	1993	319	234	182
8-630-35	1376	644	2020	319	234	183
8-650-36	1403	644	2047	319	234	184
8-670-37	1430	644	2074	319	234	184
8-690-38	1457	644	2101	319	234	185
8-705-39	1484	644	2128	319	234	186

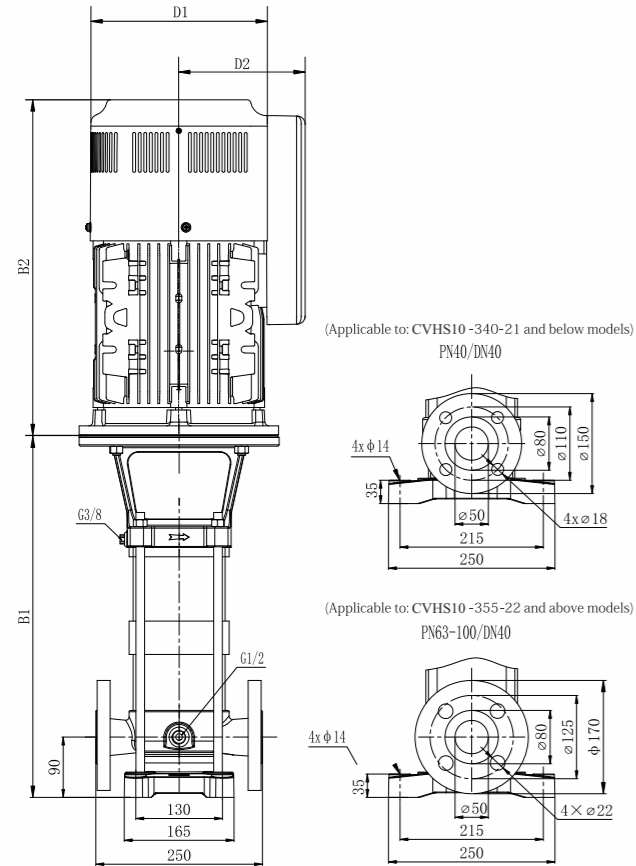
Performance data

Model	Power(kW)	Q (m³/h)	H (m)									
			4.5	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	
8-320-18	15	H (m)	354	351	343	333	320	308	288	271	246	
8-340-19	15		376	372	364	353	340	328	307	288	261	
8-360-20	15		397	393	385	374	360	347	325	306	277	
8-380-21	15		419	415	406	394	380	366	343	323	293	
8-400-22	18.5		441	436	427	415	400	385	361	340	309	
8-415-23	18.5		458	453	443	430	415	400	374	352	320	
8-435-24	18.5		479	474	464	451	435	419	393	370	336	
8-455-25	18.5		501	496	485	472	455	439	411	387	352	
8-470-26	22		518	513	503	487	470	453	424	399	363	
8-485-27	22		534	529	517	503	485	467	437	411	373	
8-505-28	22		556	550	538	524	505	487	456	429	389	
8-520-29	22		572	567	554	539	520	501	469	441	400	
8-540-30	22	594	588	575	560	540	520	487	458	416		
8-560-31	22	616	610	596	580	560	540	505	476	432		
8-580-32	30	637	631	617	601	580	559	524	493	448		
8-600-33	30	659	653	638	622	600	578	542	510	464		
8-615-34	30	676	669	655	637	615	593	555	522	474		
8-630-35	30	692	686	671	653	630	607	568	535	485		
8-650-36	30	714	707	692	674	650	626	586	552	501		
8-670-37	30	735	728	713	694	670	646	605	569	517		
8-690-38	30	757	750	734	715	690	665	623	587	533		
8-705-39	30	774	766	750	730	705	679	636	599	544		

Performance curve



Installation dimensions and weight

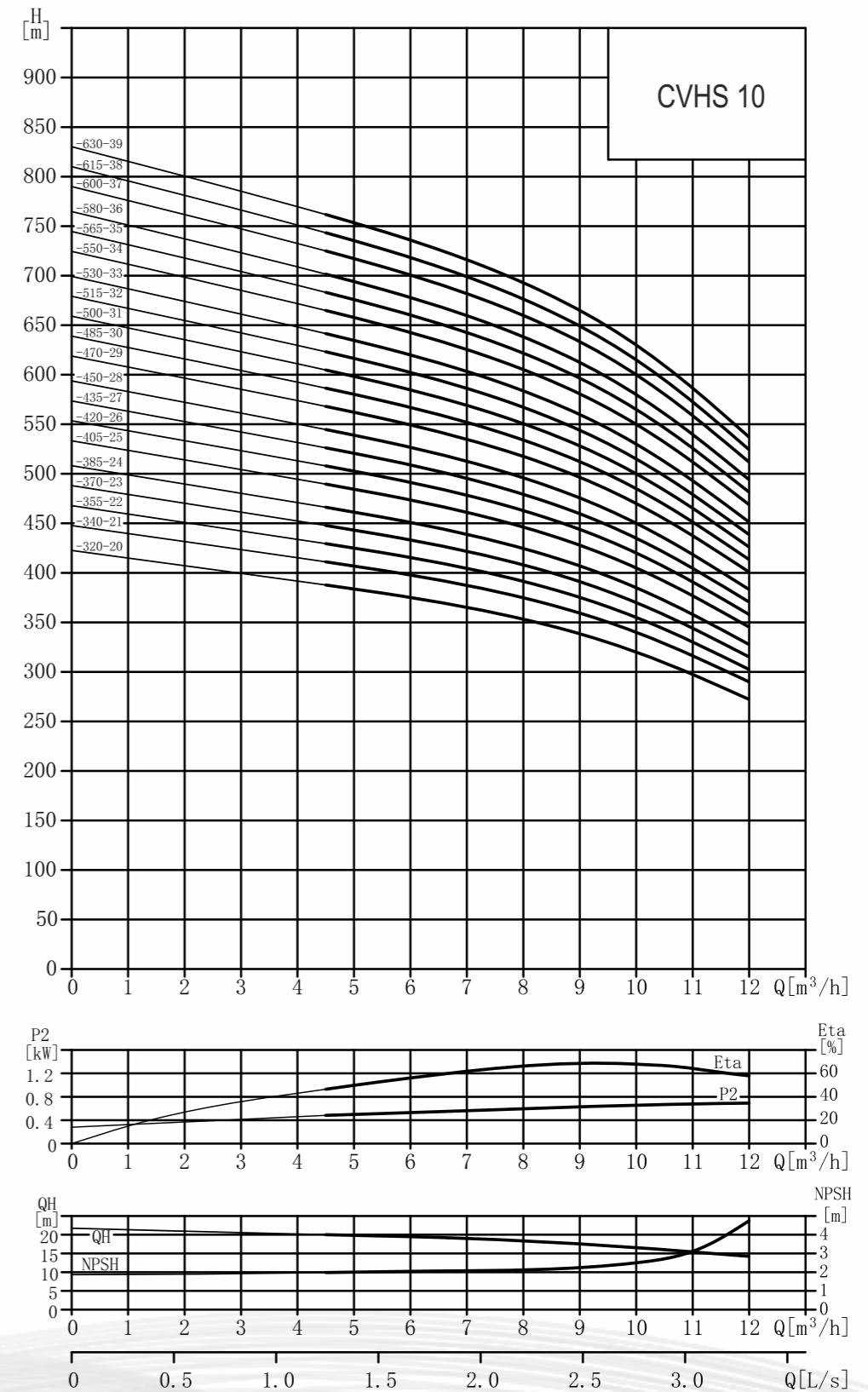


Model	Dimension ( mm )					Weight (kg)
	B1	B2	B1+B2	D1	D2	
10-320-20	920	517	1437	260	172	86
10-340-21	947	517	1464	260	172	87
10-355-22	995	517	1512	260	172	103
10-370-23	1022	517	1539	260	172	103
10-385-24	1049	517	1566	260	172	104
10-405-25	1076	517	1593	260	172	104
10-420-26	1103	517	1620	260	172	110
10-435-27	1130	517	1647	260	172	111
10-450-28	1157	517	1674	260	172	111
10-470-29	1184	517	1701	260	172	112
10-485-30	1211	517	1728	260	172	112
10-500-31	1238	517	1755	260	172	113
10-515-32	1295	644	1939	319	234	178
10-530-33	1322	644	1966	319	234	180
10-550-34	1349	644	1993	319	234	182
10-565-35	1376	644	2020	319	234	183
10-580-36	1403	644	2047	319	234	184
10-600-37	1430	644	2074	319	234	184
10-615-38	1457	644	2101	319	234	185
10-630-39	1484	644	2128	319	234	186

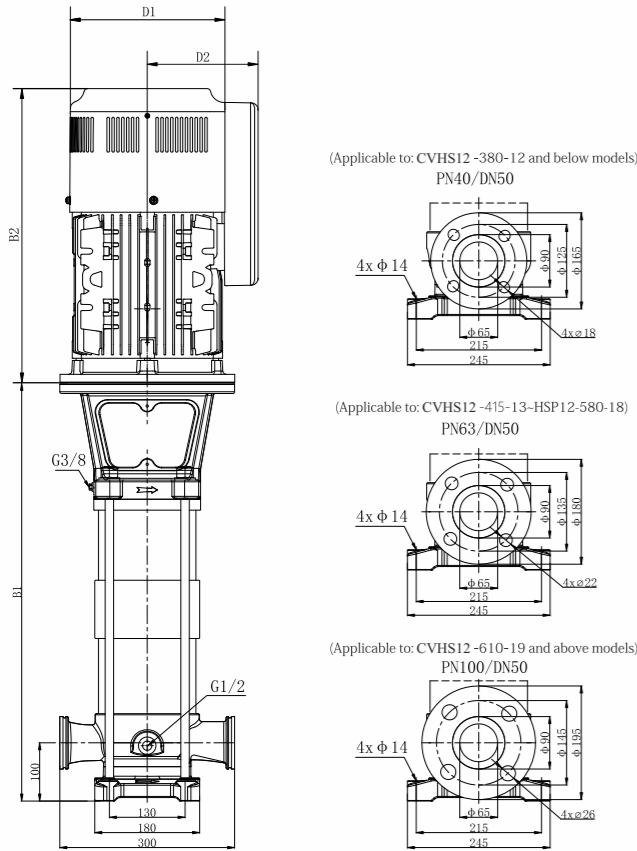
Performance data

Model	Power(kW)	Q (m³/h)	H (m)									
			4.5	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	
10-320-20	15		388	383	376	368	355	342	320	301	273	
10-340-21	15		411	407	399	390	377	363	340	320	290	
10-355-22	18.5		429	425	416	408	394	379	355	334	303	
10-370-23	18.5		448	443	434	425	411	395	370	348	315	
10-385-24	18.5		466	461	452	442	427	412	385	362	328	
10-405-25	18.5		490	484	475	465	449	433	405	381	346	
10-420-26	22		508	503	493	482	466	449	420	395	358	
10-435-27	22		526	521	510	500	483	465	435	409	371	
10-450-28	22		545	539	528	517	499	481	450	423	384	
10-470-29	22		568	562	551	539	521	502	470	442	401	
10-485-30	22		586	580	569	557	538	518	485	456	414	
10-500-31	22		605	598	587	574	555	534	500	470	427	
10-515-32	30		623	617	604	592	572	550	515	484	439	
10-530-33	30		641	635	622	609	588	567	530	498	452	
10-550-34	30		665	658	645	631	610	588	550	517	469	
10-565-35	30		683	676	663	649	627	604	565	531	482	
10-580-36	30		702	694	681	666	644	620	580	545	495	
10-600-37	30		725	717	703	689	665	641	600	565	512	
10-615-38	30		743	736	721	706	682	657	615	579	525	
10-630-39	30		762	754	739	723	699	673	630	593	538	

Performance curve



Installation dimensions and weight

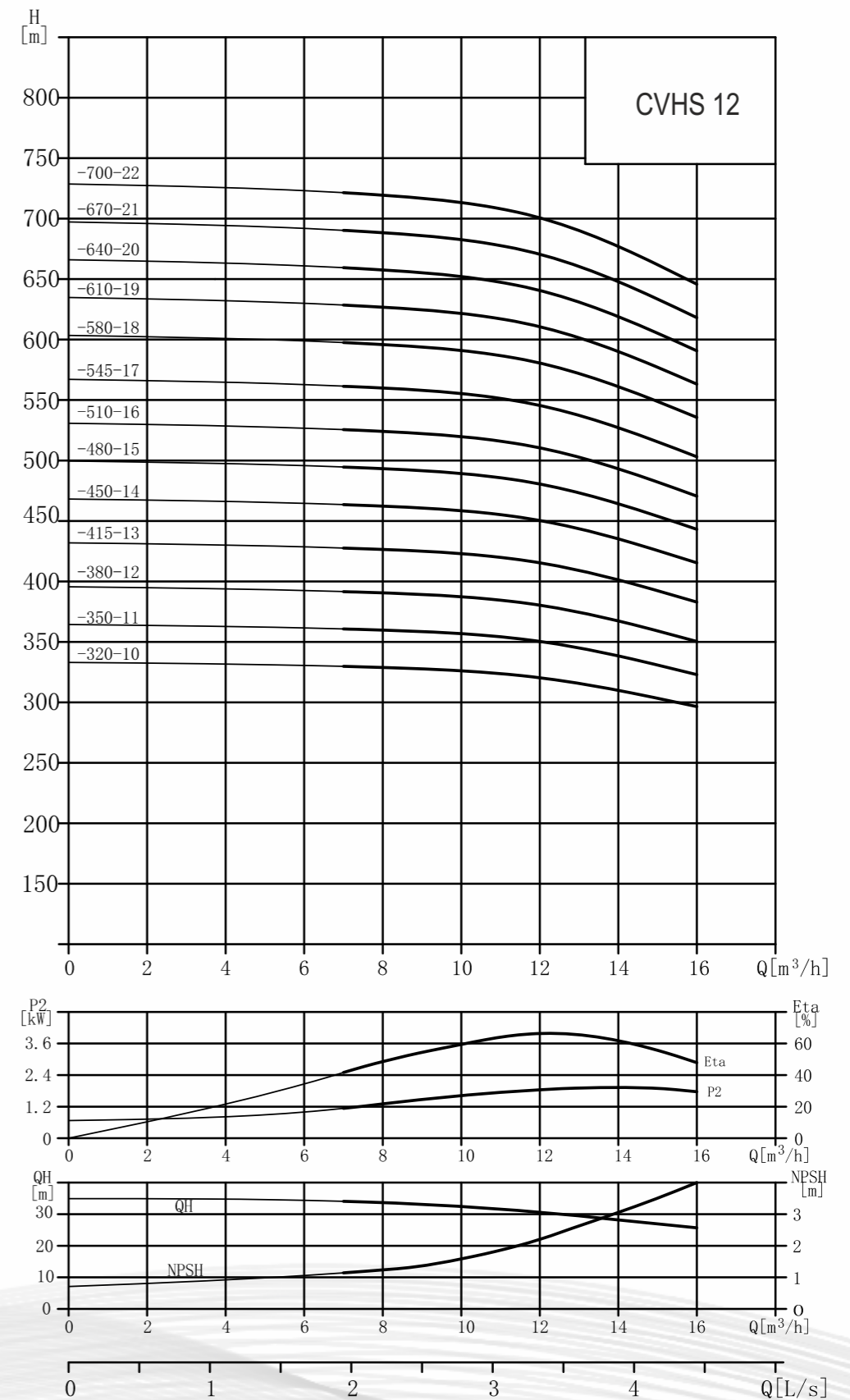


Model	Dimension ( mm )					Weight (kg)
	B1	B2	B1+B2	D1	D2	
12-320-10	717	517	1234	260	172	109
12-350-11	747	517	1264	260	172	110
12-380-12	777	517	1294	260	172	111
12-415-13	807	644	1451	319	234	182
12-450-14	926	644	1570	319	234	183
12-480-15	956	644	1600	319	234	184
12-510-16	986	644	1630	319	234	185
12-545-17	1016	644	1660	319	234	197
12-580-18	1046	644	1690	319	234	199
12-610-19	1076	644	1720	319	234	203
12-640-20	1106	644	1750	319	234	246
12-670-21	1136	644	1780	319	234	247
12-700-22	1166	644	1810	319	234	248

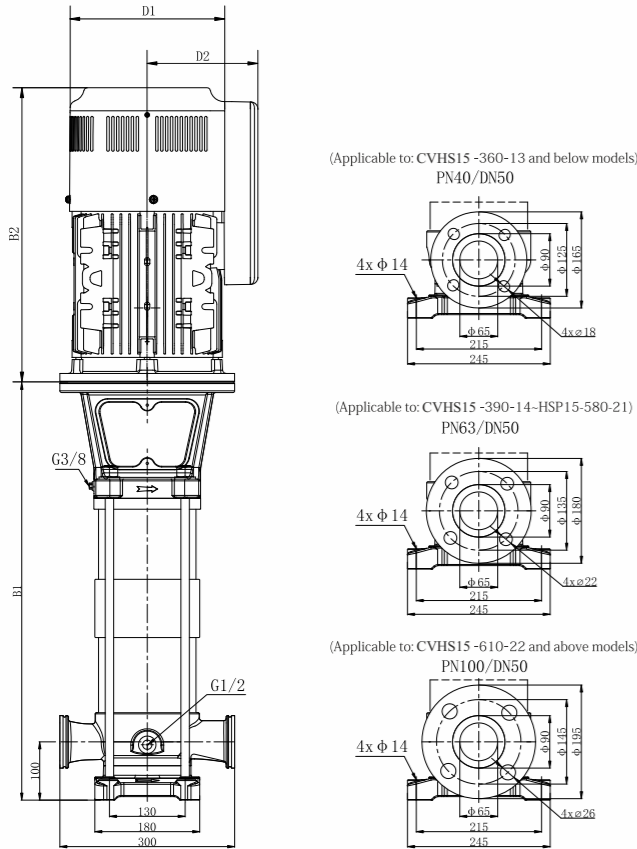
Performance data

Model	Power(kW)	Q (m³/h)	H (m)																			
			7	8	9	10	11	12	13	14	15	16										
12-320-10	22		330	329	328	326	324	320	316	310	303	296										
12-350-11	22		361	360	359	357	354	350	345	338	331	323										
12-380-12	22		392	391	389	387	385	380	375	367	359	350										
12-415-13	30		428	426	425	423	420	415	409	401	392	383										
12-450-14	30		463	462	461	459	455	450	444	435	426	415										
12-480-15	30		495	493	492	489	486	480	473	464	454	443										
12-510-16	30		526	523	522	520	516	510	503	493	482	471										
12-545-17	37		561	559	558	555	551	545	537	527	515	503										
12-580-18	37		598	595	594	591	587	580	572	561	549	536										
12-610-19	37		629	626	625	622	617	610	601	590	577	563										
12-640-20	45		659	657	655	652	647	640	631	619	605	591										
12-670-21	45		690	688	686	683	678	670	660	648	633	618										
12-700-22	45		721	719	717	713	708	700	690	677	662	646										

Performance curve



Installation dimensions and weight

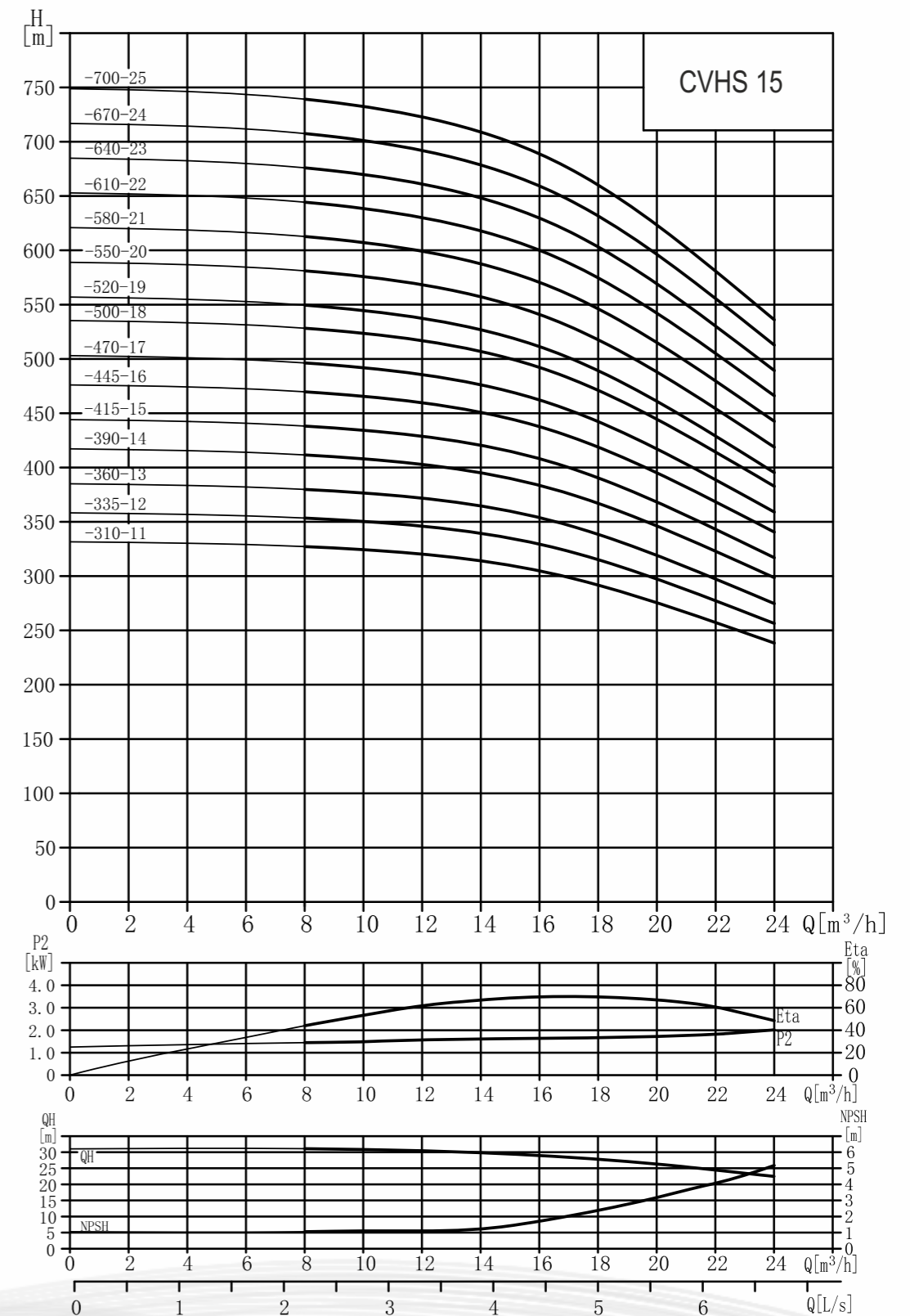


Model	Dimension ( mm )					Weight (kg)
	B1	B2	B1+B2	D1	D2	
15-310-11	747	517	1264	260	172	110
15-335-12	777	517	1294	260	172	111
15-360-13	896	644	1540	319	234	179
15-390-14	926	644	1570	319	234	183
15-415-15	956	644	1600	319	234	184
15-445-16	986	644	1630	319	234	185
15-470-17	1016	644	1660	319	234	197
15-500-18	1046	644	1690	319	234	199
15-520-19	1076	644	1720	319	234	200
15-550-20	1106	644	1750	319	234	201
15-580-21	1136	644	1780	319	234	244
15-610-22	1166	644	1810	319	234	248
15-640-23	1196	644	1840	319	234	249
15-670-24	1226	644	1870	319	234	250
15-700-25	1256	644	1900	319	234	247

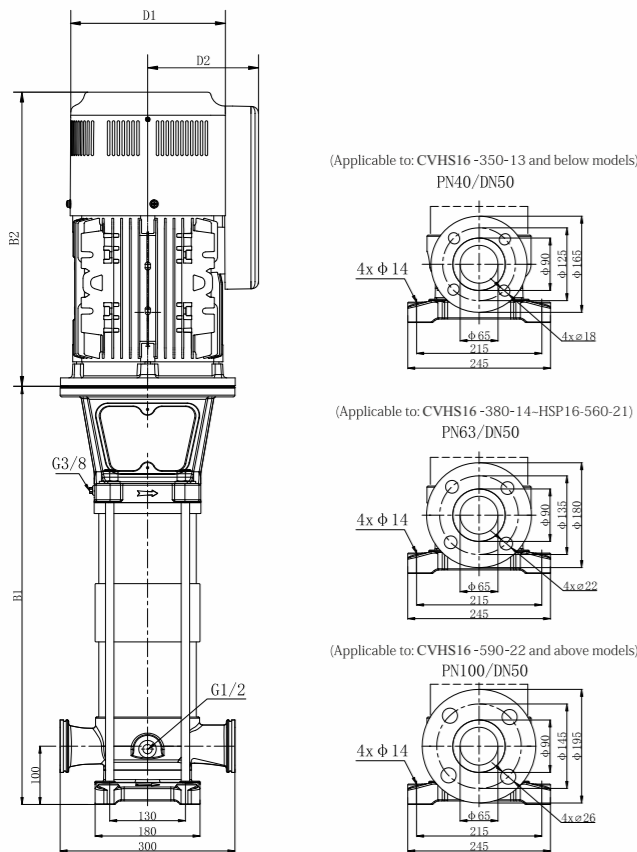
Performance data

Model	Power(kW)	Q (m³/h)	H (m)											
			8	10	12	14	15	16	18	20	22	23	24	
15-310-11	22		327	324	320	314	310	305	292	275	257	248	238	
15-335-12	22		353	350	346	339	335	329	315	297	277	267	256	
15-360-13	30		380	377	372	365	360	354	338	319	297	286	275	
15-390-14	30		412	408	403	395	390	384	367	346	323	311	299	
15-415-15	30		438	434	429	421	415	408	390	368	343	330	317	
15-445-16	30		470	466	460	451	445	438	419	395	368	355	341	
15-470-17	37		496	492	486	476	470	462	442	417	389	374	359	
15-500-18	37		528	524	517	507	500	492	471	444	414	399	383	
15-520-19	37		550	545	537	527	520	511	489	461	429	412	395	
15-550-20	37		581	576	568	557	550	541	518	488	454	437	419	
15-580-21	45		613	607	599	588	580	571	546	515	480	461	443	
15-610-22	45		644	639	630	618	610	600	575	542	505	486	466	
15-640-23	45		676	670	661	648	640	630	603	569	530	510	489	
15-670-24	45		708	701	692	679	670	659	632	596	556	534	513	
15-700-25	45		739	733	723	709	700	689	660	623	581	559	536	

Performance curve



Installation dimensions and weight

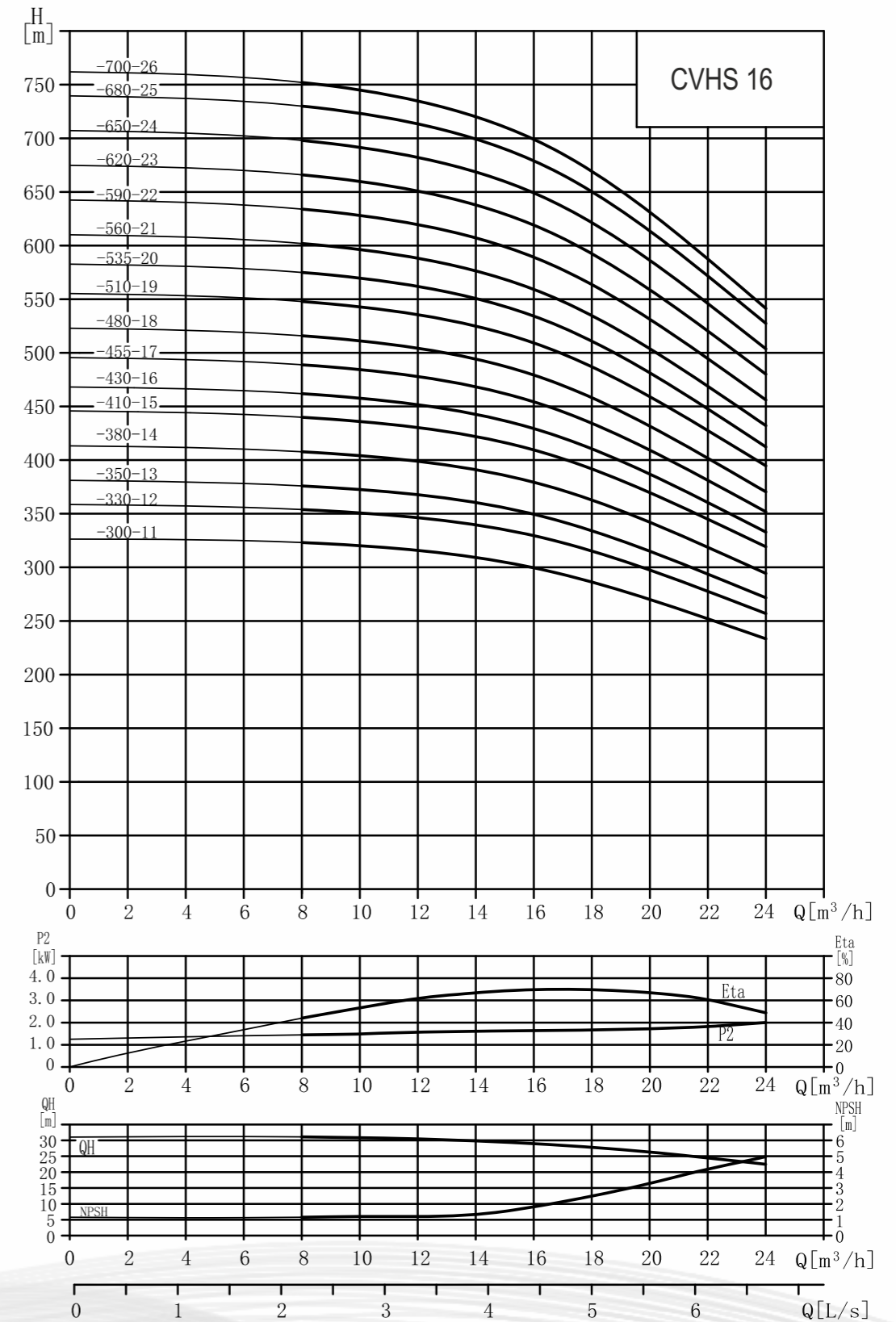


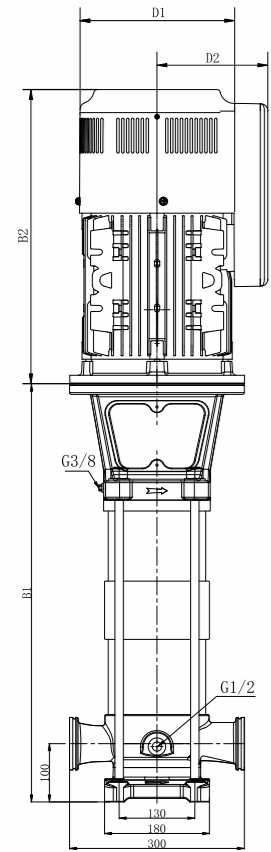
Model	Dimension ( mm )					Weight (kg)
	B1	B2	B1+B2	D1	D2	
16-300-11	747	517	1264	260	172	110
16-330-12	777	517	1294	260	172	111
16-350-13	896	644	1540	319	234	179
16-380-14	926	644	1570	319	234	183
16-410-15	956	644	1600	319	234	184
16-430-16	986	644	1630	319	234	185
16-455-17	1016	644	1660	319	234	197
16-480-18	1046	644	1690	319	234	199
16-510-19	1076	644	1720	319	234	200
16-535-20	1106	644	1750	319	234	201
16-560-21	1136	644	1780	319	234	244
16-590-22	1166	644	1810	319	234	248
16-620-23	1196	644	1840	319	234	249
16-650-24	1226	644	1870	319	234	250
16-680-25	1256	644	1900	319	234	252
16-700-26	1286	644	1930	319	234	271

Performance data

Model	Power(kW)	Q (m³/h)	H (m)											
			8	10	12	14	15	16	18	20	22	23	24	
16-300-11	22		323	320	316	309	305	300	286	270	252	243	233	
16-330-12	22		354	351	346	340	335	330	315	297	278	267	257	
16-350-13	30		376	373	368	360	356	350	334	315	294	281	272	
16-380-14	30		408	404	399	391	386	380	362	342	319	305	294	
16-410-15	30		440	436	430	423	416	410	391	370	345	330	319	
16-430-16	30		462	458	452	443	437	430	410	387	360	344	333	
16-455-17	37		489	484	478	468	462	455	433	409	381	364	352	
16-480-18	37		516	511	504	494	488	480	457	432	402	384	370	
16-510-19	37		548	543	536	525	518	510	486	459	428	408	395	
16-535-20	37		575	570	562	551	543	535	510	481	448	428	412	
16-560-21	45		602	596	588	576	569	560	533	504	469	448	432	
16-590-22	45		634	628	620	607	599	590	562	531	495	472	456	
16-620-23	45		666	660	651	638	629	620	591	559	520	497	480	
16-650-24	45		698	692	682	669	660	650	620	586	546	522	504	
16-680-25	45		730	723	713	699	690	680	648	614	572	546	527	
16-700-26	55		752	745	735	720	711	700	667	631	587	561	541	

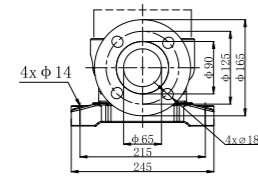
Performance curve



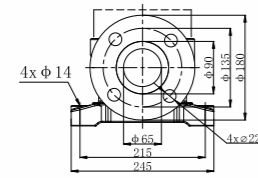


Installation dimensions and weight

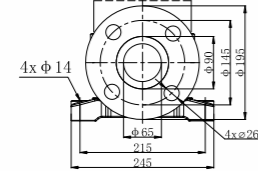
(Applicable to: CVHS20-300-13 and below models)  
PN40/DN50



(Applicable to: CVHS20-320-14-HSP20-495-21)  
PN63/DN50



(Applicable to: CVHS20-520-22 and above models)  
PN100/DN50

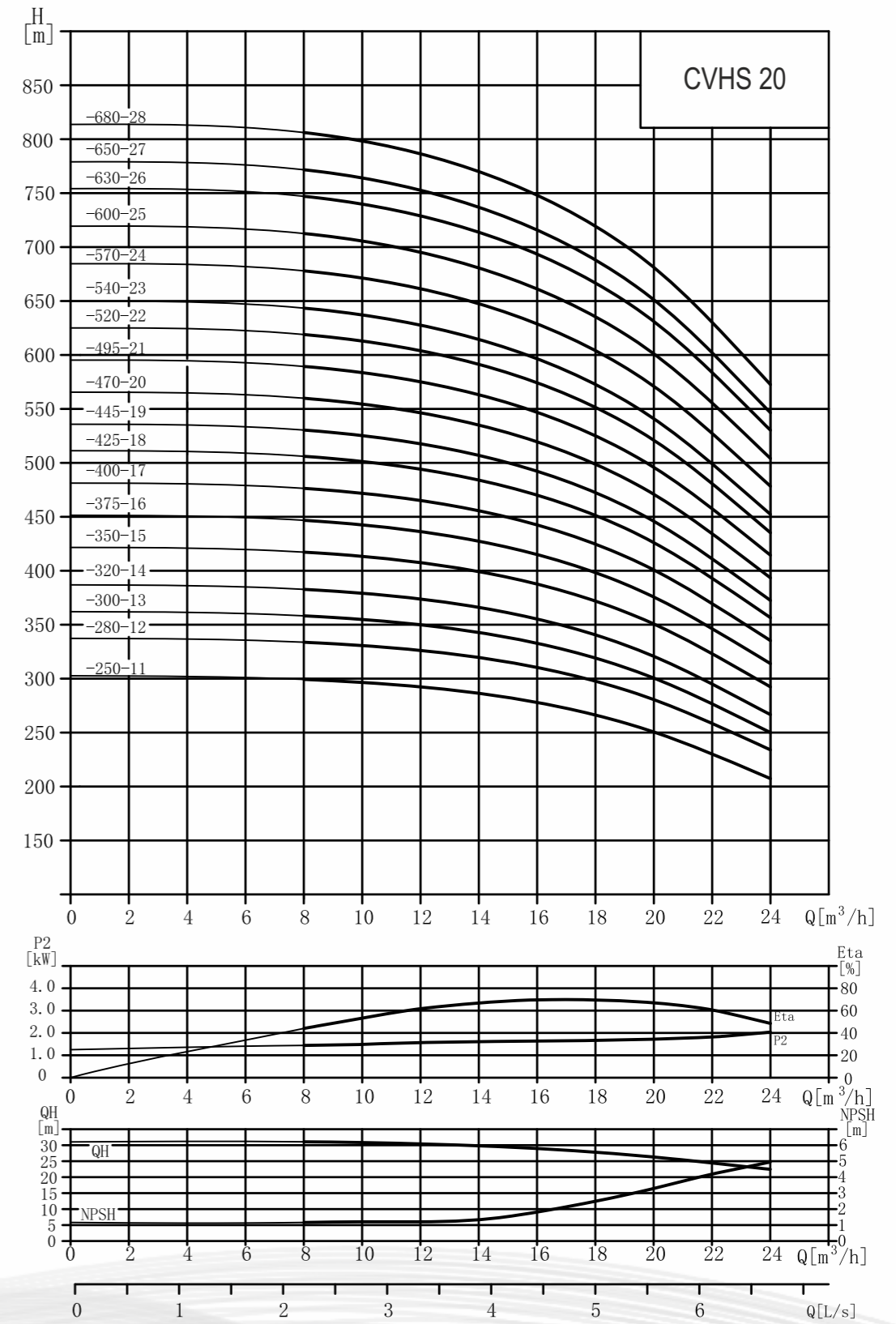


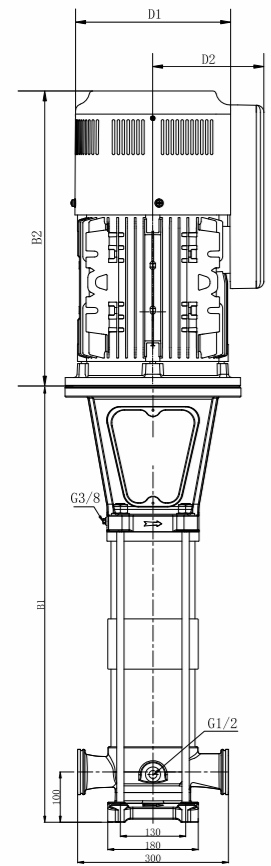
Model	Dimension ( mm )					Weight (kg)
	B1	B2	B1+B2	D1	D2	
20-250-11	747	517	1264	260	172	101
20-280-12	777	517	1294	260	172	111
20-300-13	896	644	1540	319	234	179
20-320-14	926	644	1570	319	234	183
20-350-15	956	644	1600	319	234	184
20-375-16	986	644	1630	319	234	185
20-400-17	1016	644	1660	319	234	197
20-425-18	1046	644	1690	319	234	199
20-445-19	1076	644	1720	319	234	200
20-470-20	1106	644	1750	319	234	201
20-495-21	1136	644	1780	319	234	244
20-520-22	1166	644	1810	319	234	247
20-540-23	1196	644	1840	319	234	248
20-570-24	1226	644	1870	319	234	249
20-600-25	1256	644	1900	319	234	251
20-630-26	1286	523	1809	311	235	270
20-650-27	1316	523	1839	311	235	271
20-680-28	1346	523	1869	311	235	272

Performance data

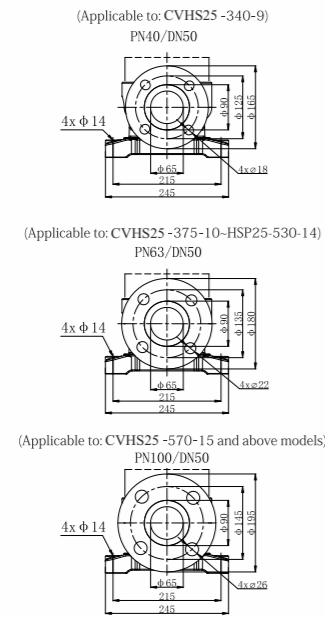
Model	Power(kW)	Q (m³/h)	H (m)											
			8	10	12	14	15	16	18	20	22	23	24	
20-250-11	22		299	296	292	287	283	276	266	250	230	219	207	
20-280-12	22		334	331	326	320	315	309	298	280	258	246	234	
20-300-13	30		358	355	350	343	338	331	319	300	277	263	250	
20-320-14	30		383	379	374	367	361	354	340	320	295	281	267	
20-350-15	30		417	413	408	400	394	386	372	350	323	308	292	
20-375-16	30		447	443	436	428	422	413	398	375	346	330	314	
20-400-17	37		476	472	465	457	450	441	425	400	370	352	335	
20-425-18	37		506	501	494	485	478	468	451	425	393	375	357	
20-445-19	37		530	525	518	509	500	490	472	445	411	392	372	
20-470-20	37		560	554	546	537	528	518	499	470	434	414	393	
20-495-21	45		589	584	575	565	555	545	525	495	457	436	414	
20-520-22	45		619	613	604	594	583	573	551	520	481	458	435	
20-540-23	45		643	637	628	617	606	595	573	540	499	476	452	
20-570-24	45		678	671	661	650	639	627	604	570	527	503	478	
20-600-25	45		713	706	685	684	672	660	635	600	555	530	504	
20-630-26	55		747	740	729	717	704	692	667	630	584	557	530	
20-650-27	55		772	764	753	740	727	715	688	650	602	574	546	
20-680-28	55		806	798	786	774	760	747	719	680	630	601	573	

Performance curve





Installation dimensions and weight

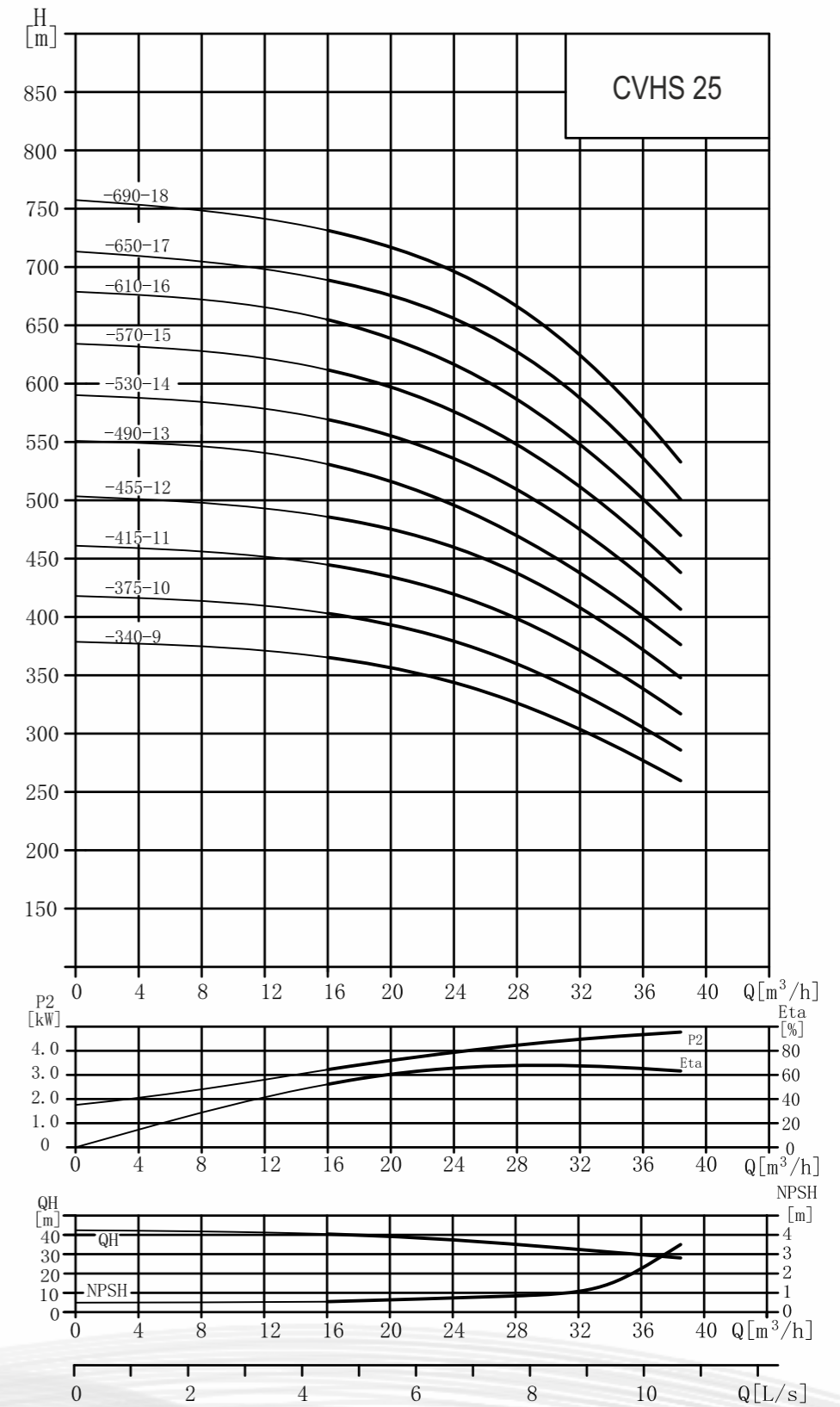


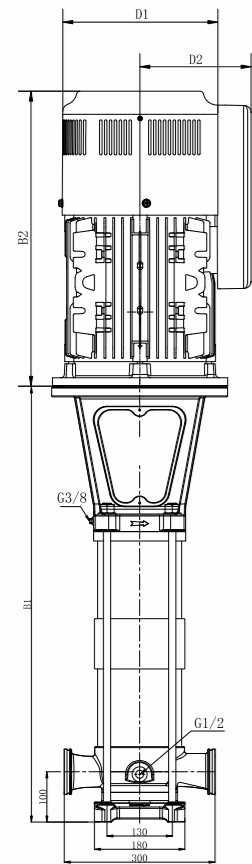
Model	Dimension ( mm )					Weight (kg)
	B1	B2	B1+B2	D1	D2	
25-340-9	911	644	1555	319	234	229
25-375-10	956	523	1479	311	235	251
25-415-11	1001	523	1524	311	235	253
25-455-12	1046	523	1569	311	235	289
25-490-13	1091	523	1614	311	235	292
25-530-14	1136	523	1659	311	235	295
25-570-15	1181	523	1704	311	235	300
25-610-16	1226	523	1749	311	235	326
25-650-17	1271	523	1794	311	235	328
25-690-18	1316	523	1839	311	235	330

Performance data

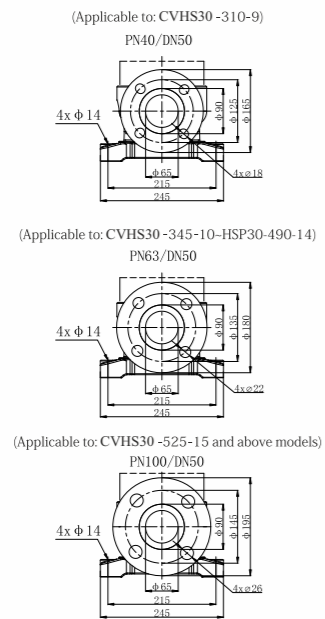
Model	Power(kW)	Q (m³/h)	H (m)									
			16	20	25	28	30	32	36	38.5		
25-340-9	45		365	356	340	326	312	304	277	260		
25-375-10	55		403	393	375	360	344	335	305	286		
25-415-11	55		445	434	415	399	381	371	338	317		
25-455-12	75		486	475	455	437	418	408	372	348		
25-490-13	75		531	516	490	470	449	438	400	376		
25-530-14	75		569	555	530	509	486	475	434	407		
25-570-15	75		612	597	570	548	523	511	467	438		
25-610-16	90		655	639	610	587	560	548	501	470		
25-650-17	90		689	675	650	627	597	588	536	501		
25-690-18	90		731	717	690	666	634	624	570	533		

Performance curve





Installation dimensions and weight

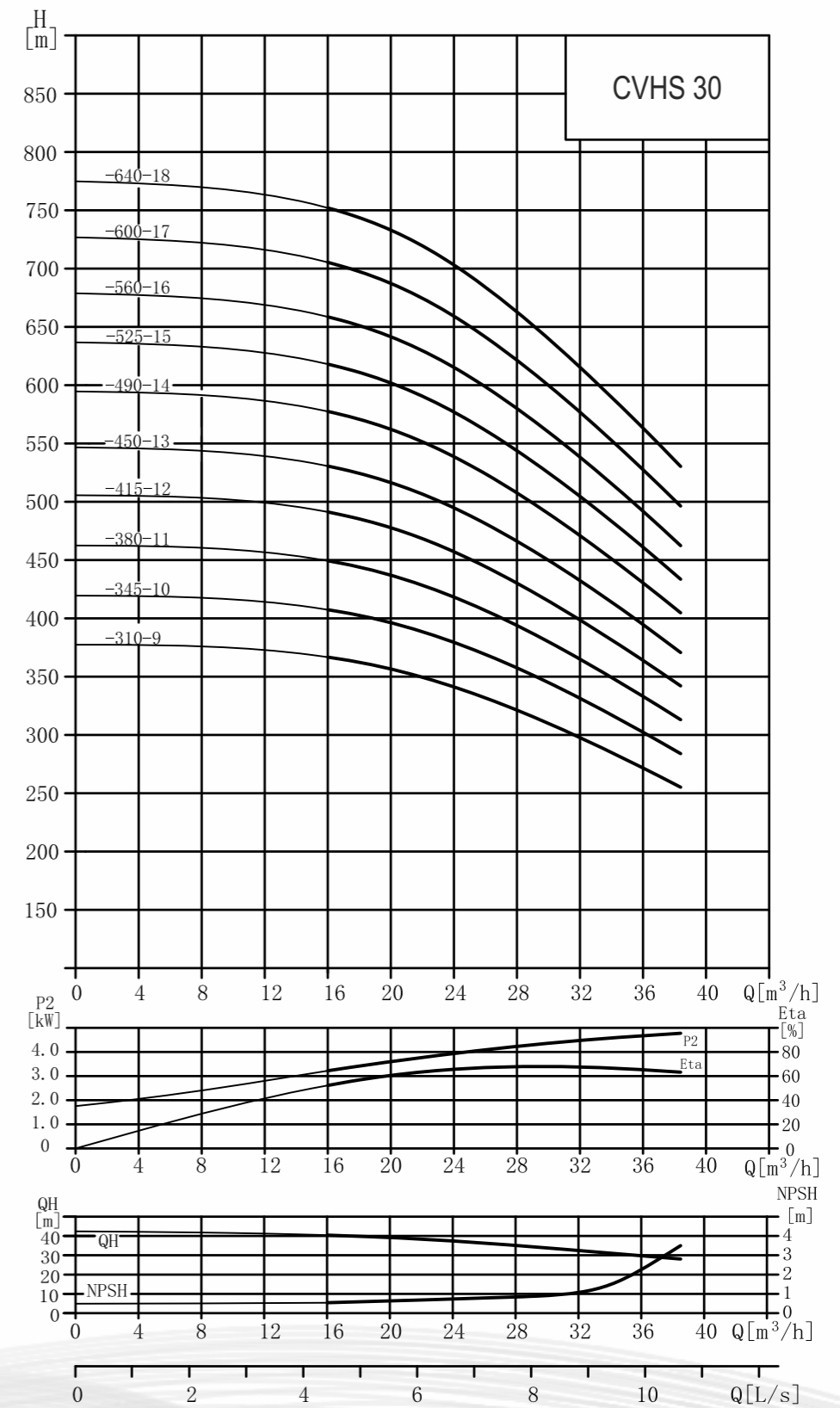


Model	Dimension ( mm )					Weight (kg)
	B1	B2	B1+B2	D1	D2	
30-310-9	911	644	1555	319	234	224
30-345-10	956	523	1479	311	235	246
30-380-11	1001	523	1524	311	235	248
30-415-12	1046	523	1569	311	235	284
30-450-13	1091	523	1614	311	235	287
30-490-14	1136	523	1659	311	235	290
30-525-15	1181	523	1704	311	235	294
30-560-16	1226	523	1749	311	235	321
30-600-17	1271	523	1794	311	235	323
30-640-18	1316	523	1839	311	235	325

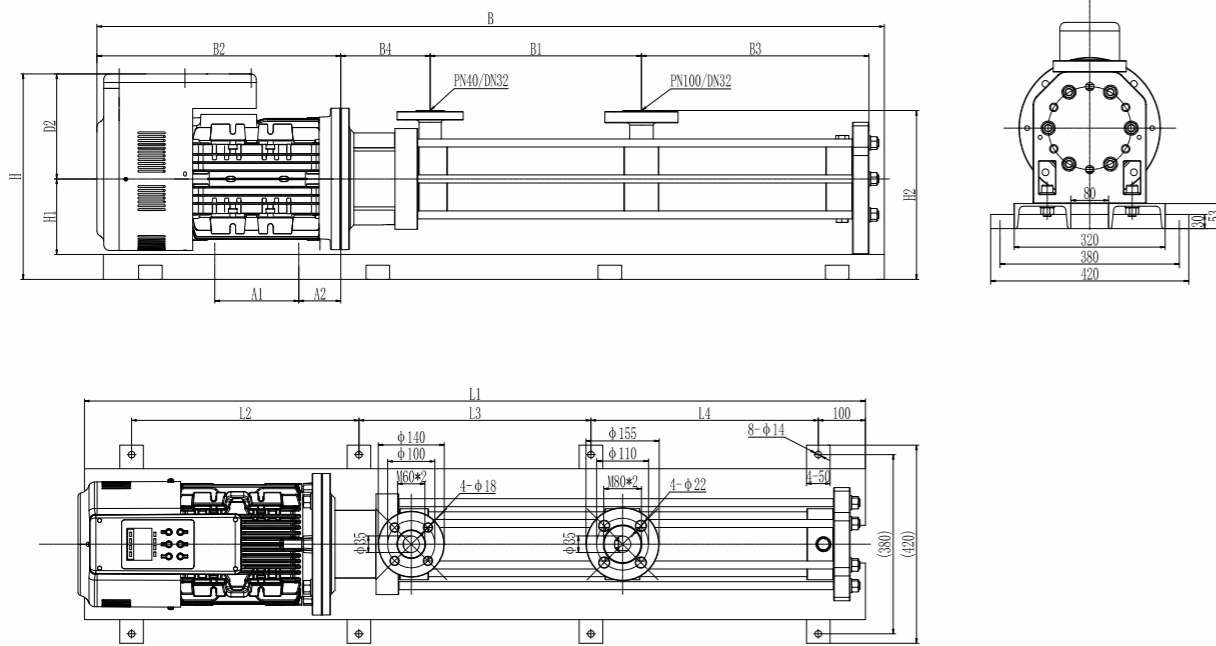
Performance data

Model	Power(kW)	Q (m³/h)	H (m)									
			16	20	25	28	30	32	36	38.5		
30-310-9	45	H (m)	367	357	338	321	310	298	272	255		
30-345-10	55		407	396	376	357	345	331	302	284		
30-380-11	55		449	437	414	394	380	365	333	313		
30-415-12	75		491	478	453	430	415	399	364	342		
30-450-13	75		531	516	491	466	450	432	395	371		
30-490-14	75		577	562	534	508	490	471	430	405		
30-525-15	75		618	602	572	544	525	505	461	434		
30-560-16	90		659	642	610	580	560	538	492	462		
30-600-17	90		705	687	653	621	600	577	528	496		
30-640-18	90		752	733	696	663	640	615	563	530		

Performance curve



Installation dimensions and weight



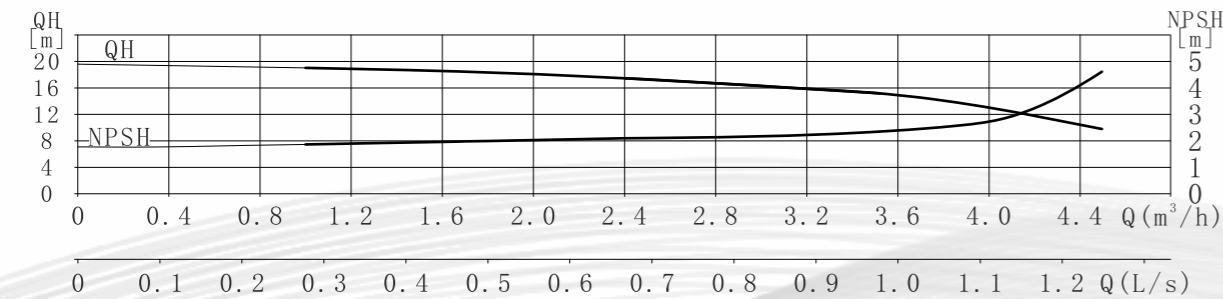
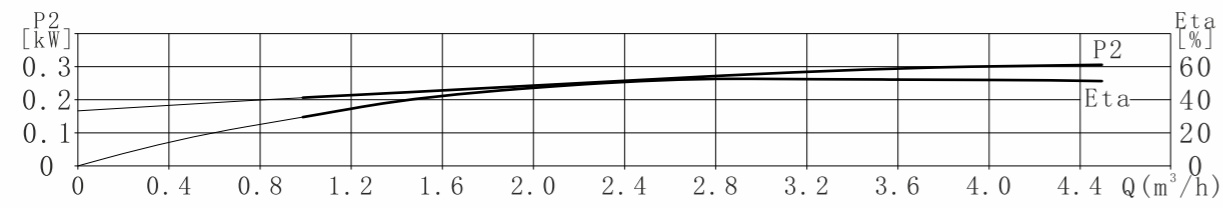
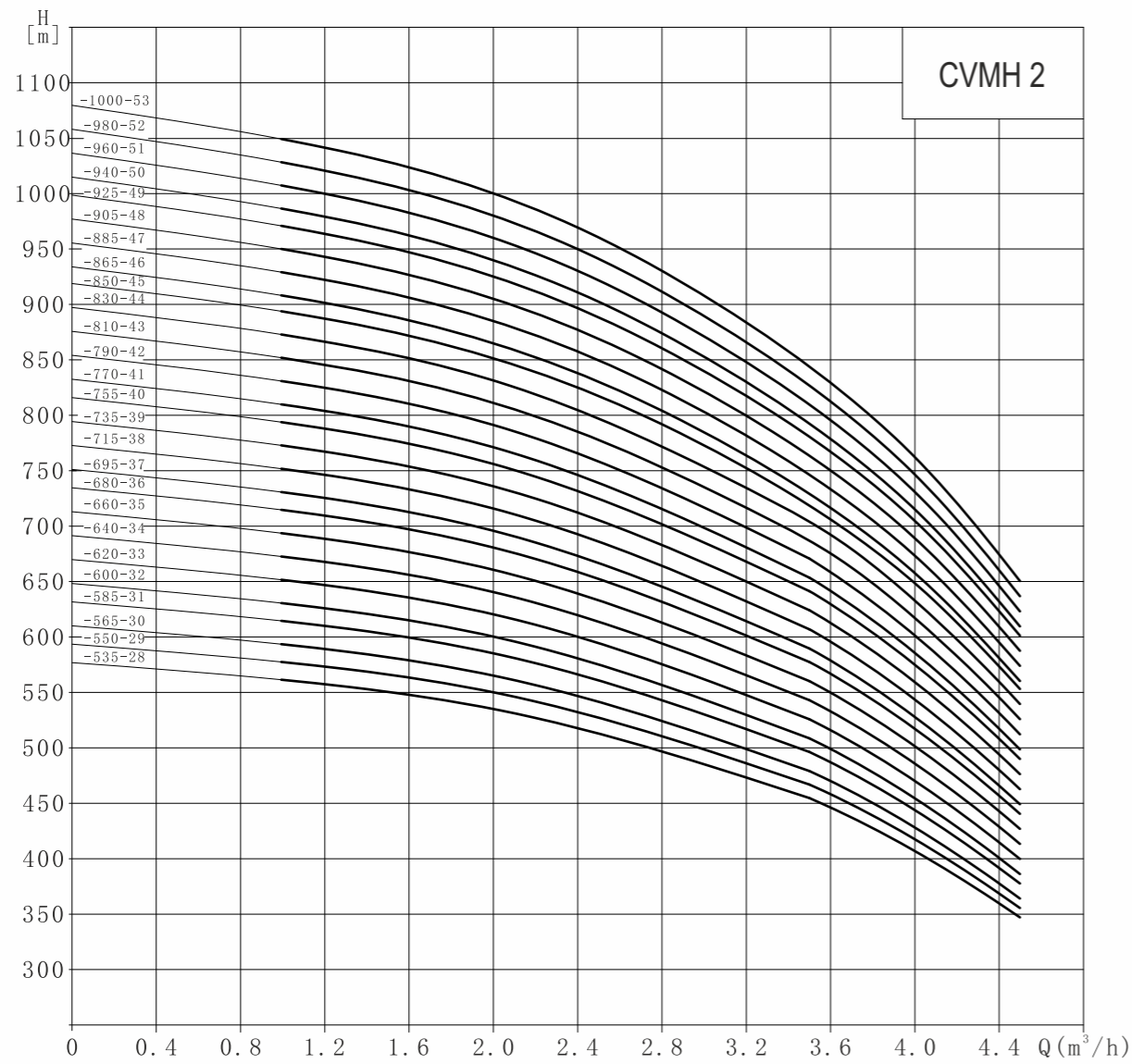
Performance data

Model	Power(kW)	Q (m³/h)	H (m)											
			1.0	1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.0	4.4	4.5	
2-535-28	11	H (m)	561	557	548	535	518	497	473	446	407	360	347	
2-550-29	11		577	573	563	550	5332	510	486	458	418	369	356	
2-565-30	11		594	589	579	565	547	524	499	470	428	378	364	
2-585-31	11		615	610	599	585	566	543	517	487	444	392	378	
2-600-32	11		631	626	615	600	581	557	530	499	454	401	386	
2-620-33	11		652	647	636	620	600	575	548	516	470	415	400	
2-640-34	11		673	668	656	640	619	594	566	533	486	429	413	
2-660-35	11		694	689	677	660	639	613	583	550	501	443	427	
2-680-36	11		715	709	697	680	659	632	601	567	517	457	440	
2-695-37	11		731	725	713	695	673	645	614	579	528	466	449	
2-715-38	11		752	746	733	715	693	664	632	596	544	480	463	
2-735-39	11		773	767	754	735	712	683	650	613	559	494	476	
2-755-40	11		794	788	774	755	732	702	668	630	575	508	490	
2-770-41	15		810	804	790	770	746	715	681	642	586	517	499	
2-790-42	15		831	825	810	790	766	734	699	658	601	531	512	
2-810-43	15		852	845	831	810	785	753	717	675	617	545	526	
2-830-44	15		873	866	851	830	805	772	734	692	633	560	540	
2-850-45	15		894	887	872	850	825	792	752	706	648	573	553	
2-865-46	15		908	901	885	865	837	804	763	716	657	581	560	
2-885-47	15		929	922	906	885	857	822	781	733	673	595	573	
2-905-48	15	950	942	926	905	877	836	799	750	689	609	587		
2-925-49	15	971	964	947	925	897	860	817	767	705	623	601		
2-940-50	15	987	979	963	940	911	874	830	779	715	632	610		
2-960-51	15	1007	1000	983	960	930	893	848	796	731	646	623		
2-980-52	15	1028	1021	1003	980	950	912	866	812	747	660	637		
2-1000-53	15	1049	1041	1024	1000	969	930	884	829	762	674	650		

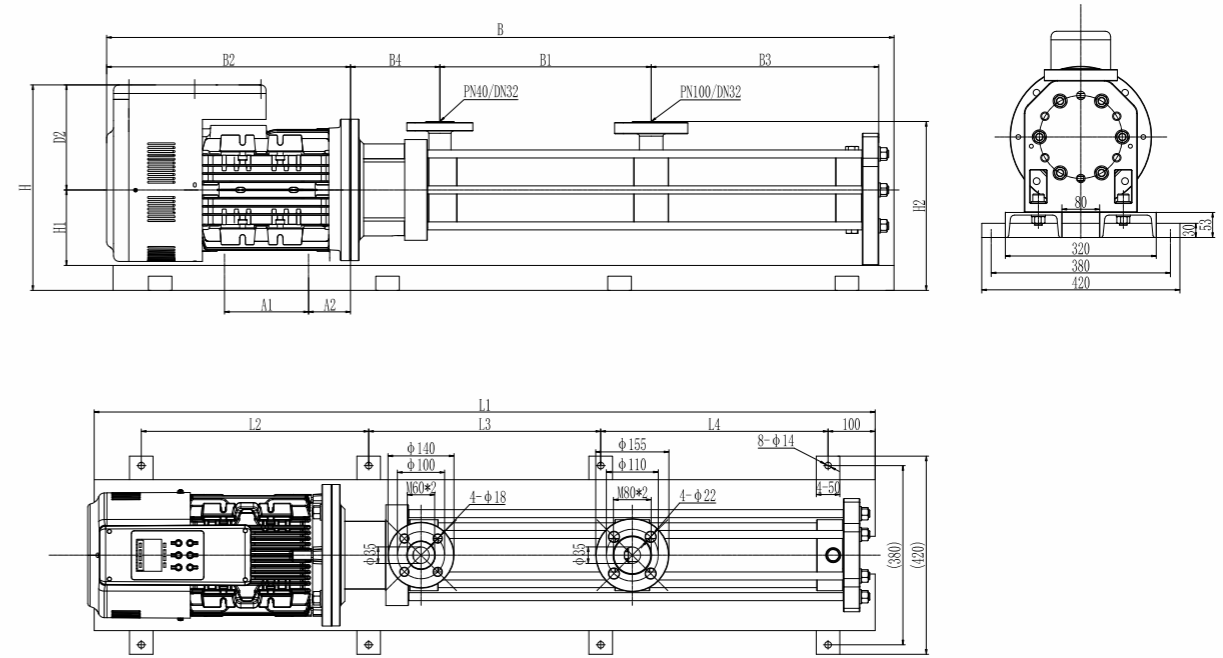
Installation dimensions and weight

Model	Dimension ( mm )															Weight (kg)
	L1	L2	L3	L4	A1	A2	B	B1	B2	B3	B4	D2	H1	H	H2	
2-535-28	1487	429	429	429	140	89	1489	358	517	392	189	172	160	385	358	169
2-550-29	1505	435	435	435	140	89	1507	358	517	410	189	172	160	385	358	170
2-565-30	1523	441	441	441	140	89	1525	376	517	410	189	172	160	385	358	171
2-585-31	1541	447	447	447	140	89	1543	376	517	428	189	172	160	385	358	172
2-600-32	1559	453	453	453	140	89	1561	394	517	428	189	172	160	385	358	173
2-620-33	1577	459	459	459	140	89	1579	394	517	446	189	172	160	385	358	174
2-640-34	1595	465	465	465	140	89	1597	412	517	446	189	172	160	385	358	175
2-660-35	1613	471	471	471	140	89	1615	412	517	464	189	172	160	385	358	176
2-680-36	1631	477	477	477	140	89	1633	430	517	464	189	172	160	385	358	177
2-695-37	1649	483	483	483	140	89	1651	430	517	482	189	172	160	385	358	179
2-715-38	1667	489	489	489	140	89	1669	448	517	482	189	172	160	385	358	180
2-735-39	1685	495	495	495	140	89	1687	448	517	500	189	172	160	385	358	181
2-755-40	1703	501	501	501	140	89	1705	466	517	500	189	172	160	385	358	182
2-770-41	1721	507	507	507	140	89	1723	466	517	518	189	172	160	385	358	188
2-790-42	1739	513	513	513	140	89	1741	484	517	518	189	172	160	385	358	189
2-810-43	1757	519	519	519	140	89	1759	484	517	536	189	172	160	385	358	190
2-830-44	1775	525	525	525	140	89	1777	502	517	536	189	172	160	385	358	191
2-850-45	1793	531	531	531	140	89	1795	502	517	554	189	172	160	385	358	192
2-865-46	1811	537	537	537	140	89	1813	520	517	554	189	172	160	385	358	193
2-885-47	1829	543	543	543	140	89	1831	520	517	572	189	172	160	385	358	195
2-905-48	1847	549	549	549	140	89	1849	538	517	572	189	172	160	385	358	196
2-925-49	1865	555	555	555	140	89	1867	538	517	590	189	172	160	385	358	197
2-940-50	1883	561	561	561	140	89	1885	556	517	590	189	172	160	385	358	198
2-960-51	1901	567	567	567	140	89	1903	556	517	608	189	172	160	385	358	199
2-980-52	1919	573	573	573	140	89	1921	574	517	608	189	172	160	385	358	200
2-1000-53	1937	579	579	579	140	89	1939	574	517	626	189	172	160	385	358	201

Performance curve



Installation dimensions and weight



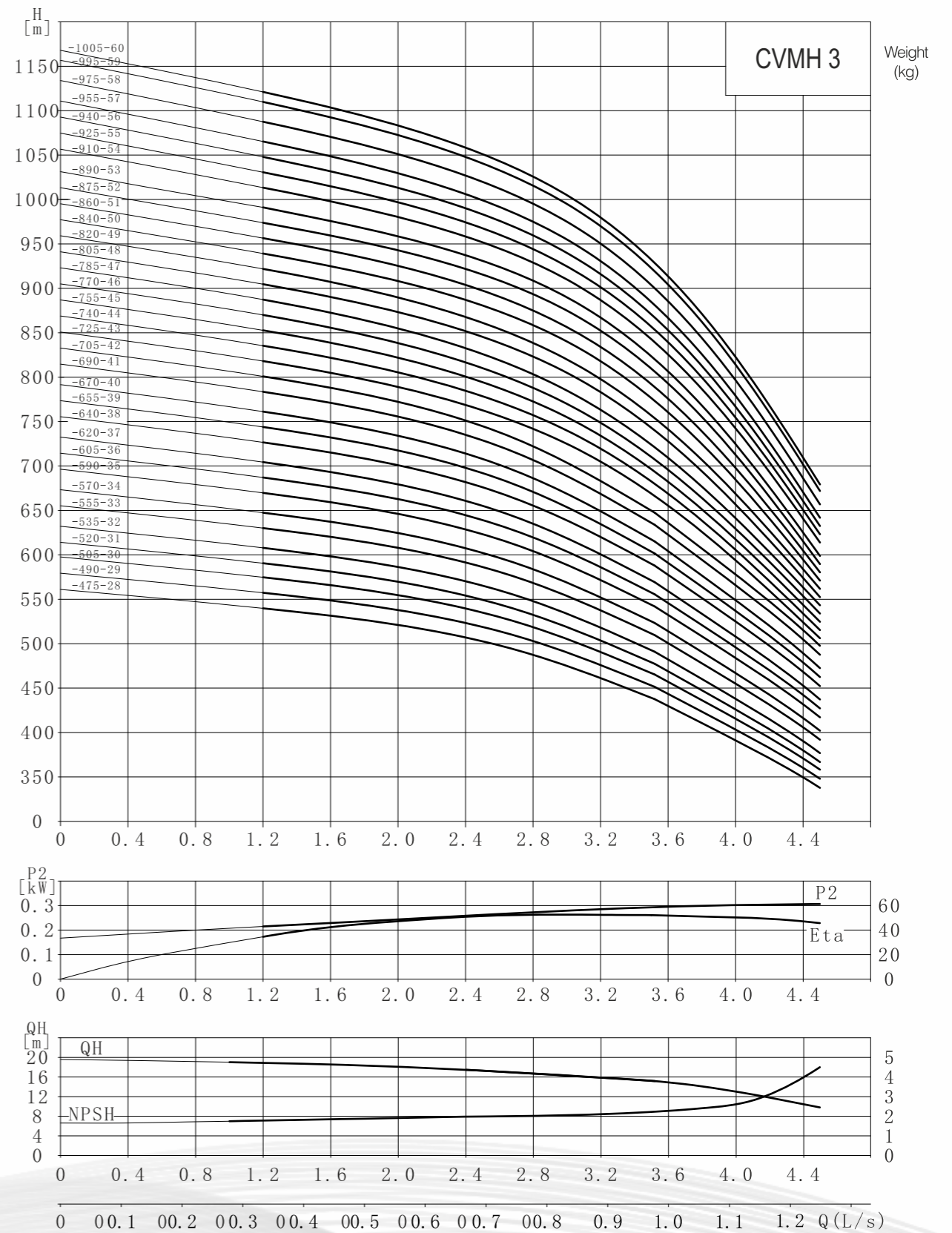
Performance data

Model	Power(kW)	Q (m³/h)	1.2	1.6	2.0	2.4	2.8	3.0	3.2	3.5	4.0	4.5
3-475-28	11	H (m)	540	532	521	507	487	475	461	439	391	338
3-490-29	11		557	549	538	523	503	490	476	453	403	348
3-505-30	11		575	566	555	540	519	505	491	467	416	358
3-520-31	11		591	581	570	554	533	520	504	479	426	367
3-535-32	11		608	598	586	570	548	535	518	493	438	377
3-555-33	11		630	620	608	591	568	555	538	511	455	392
3-570-34	11		647	637	625	608	584	570	552	525	467	402
3-590-35	11		670	659	646	629	604	590	572	544	484	417
3-605-36	11		687	676	662	645	620	605	586	558	496	427
3-620-37	11		704	693	679	661	635	620	600	571	508	437
3-640-38	11		727	715	701	682	656	640	620	590	525	452
3-655-39	11		744	732	718	698	671	655	634	604	537	462
3-670-40	11		761	749	734	714	686	670	649	617	549	472
3-690-41	15		784	771	756	734	707	690	669	636	566	488
3-705-42	15		801	788	772	751	722	705	683	650	578	496
3-725-43	15		818	805	789	769	742	725	705	669	594	506
3-740-44	15		835	822	806	785	757	740	720	683	606	515
3-755-45	15		853	839	822	800	772	755	734	696	617	525
3-770-46	15		870	856	838	817	788	770	749	710	629	534
3-785-47	15		887	873	855	833	803	785	763	724	641	543
3-805-48	15	905	890	873	852	823	805	783	743	657	552	
3-820-49	15	922	907	890	868	839	820	798	757	669	562	
3-840-50	15	939	925	908	887	859	840	818	777	685	571	
3-860-51	15	957	942	925	904	875	860	834	792	698	580	
3-875-52	15	974	960	943	922	893	875	852	810	713	590	
3-890-53	15	991	976	959	937	909	890	867	824	724	599	
3-910-54	15	1013	998	980	958	929	910	887	843	742	614	
3-925-55	18.5	1031	1015	997	974	944	925	901	857	755	623	
3-940-56	18.5	1048	1032	1013	990	960	940	916	871	767	632	
3-955-57	18.5	1065	1049	1030	1006	975	955	931	885	779	642	
3-975-58	18.5	1088	1071	1051	1027	995	975	950	904	797	657	
3-995-59	18.5	1110	1093	1073	1048	1016	995	970	923	814	672	
3-1005-60	18.5	1121	1104	1083	1058	1026	1005	979	932	823	679	

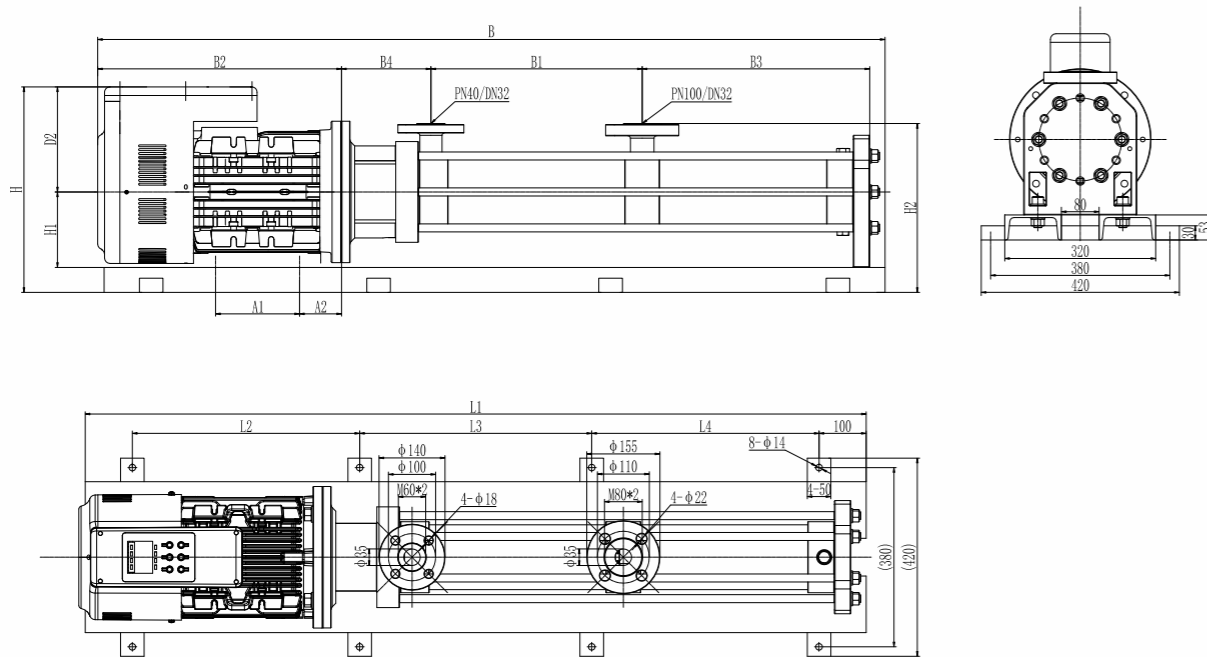
Installation dimensions and weight

Model	Dimension (mm)															Weight (kg)
	L1	L2	L3	L4	A1	A2	B	B1	B2	B3	B4	D2	H1	H	H2	
3-475-28	1487	429	429	429	140	89	1489	358	517	392	189	172	160	385	358	169
3-490-29	1505	435	435	435	140	89	1507	358	517	410	189	172	160	385	358	170
3-505-30	1523	441	441	441	140	89	1525	376	517	410	189	172	160	385	358	171
3-520-31	1541	447	447	447	140	89	1543	376	517	428	189	172	160	385	358	172
3-535-32	1559	453	453	453	140	89	1561	394	517	428	189	172	160	385	358	173
3-555-33	1577	459	459	459	140	89	1579	394	517	446	189	172	160	385	358	174
3-570-34	1595	465	465	465	140	89	1597	412	517	446	189	172	160	385	358	175
3-590-35	1613	471	471	471	140	89	1615	412	517	464	189	172	160	385	358	176
3-605-36	1631	477	477	477	140	89	1633	430	517	464	189	172	160	385	358	177
3-620-37	1649	483	483	483	140	89	1651	430	517	482	189	172	160	385	358	179
3-640-38	1667	489	489	489	140	89	1669	448	517	482	189	172	160	385	358	180
3-655-39	1685	495	495	495	140	89	1687	448	517	500	189	172	160	385	358	181
3-670-40	1703	501	501	501	140	89	1705	466	517	500	189	172	160	385	358	182
3-690-41	1721	507	507	507	140	89	1723	466	517	518	189	172	160	385	358	188
3-705-42	1739	513	513	513	140	89	1741	484	517	518	189	172	160	385	358	189
3-725-43	1757	519	519	519	140	89	1759	484	517	536	189	172	160	385	358	190
3-740-44	1775	525	525	525	140	89	1777	502	517	536	189	172	160	385	358	191
3-755-45	1793	531	531	531	140	89	1795	502	517	554	189	172	160	385	358	192
3-770-46	1811	537	537	537	140	89	1813	520	517	554	189	172	160	385	358	193
3-785-47	1829	543	543	543	140	89	1831	520	517	572	189	172	160	385	358	195
3-805-48	1847	549	549	549	140	89	1849	538	517	572	189	172	160	385	358	196
3-820-49	1865	555	555	555	140	89	1867	538	517	590	189	172	160	385	358	197
3-840-50	1883	561	561	561	140	89	1885	556	517	590	189	172	160	385	358	198
3-860-51	1901	567	567	567	140	89	1903	556	517	608	189	172	160	385	358	199
3-875-52	1919	573	573	573	140	89	1921	574	517	608	189	172	160	385	358	200
3-890-53	1937	579	579	579	140	89	1939	574	517	626	189	172	160	385	358	201
3-910-54	1955	585	585	585	140	89	1957	592	517	626	189	172	160	385	358	202
3-925-55	1973	591	591	591	140	89	1975	592	517	644	189	172	160	385	358	213
3-940-56	1991	597	597	597	140	89	1993	610	517	644	189	172	160	385	358	215
3-955-57	2009	603	603	603	140	89	2011	610	517	662	189	172	160	385	358	216
3-975-58	2027	609	609	609	140	89	2029	628	517	662	189	172	160	385	358	217
3-995-59	2045	615	615	615	140	89	2047	628	517	680	189	172	160	385	358	218
3-1005-60	2063	621	621	621	140	89	2065	646	517	680	189	172	160	385	358	219

Performance curve



Installation dimensions and weight



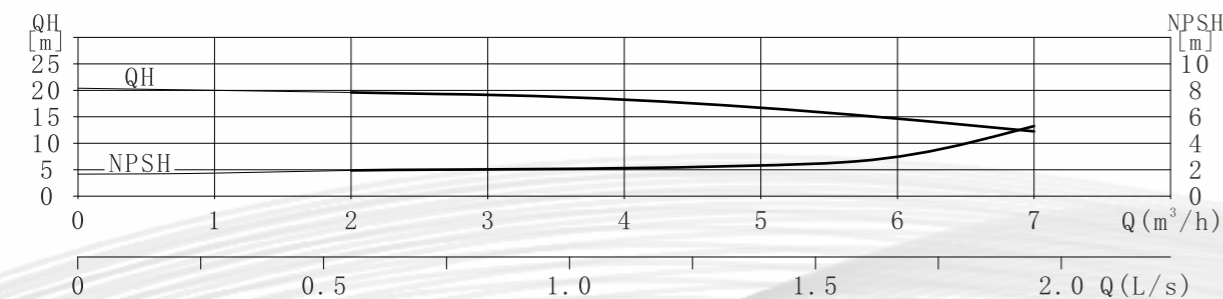
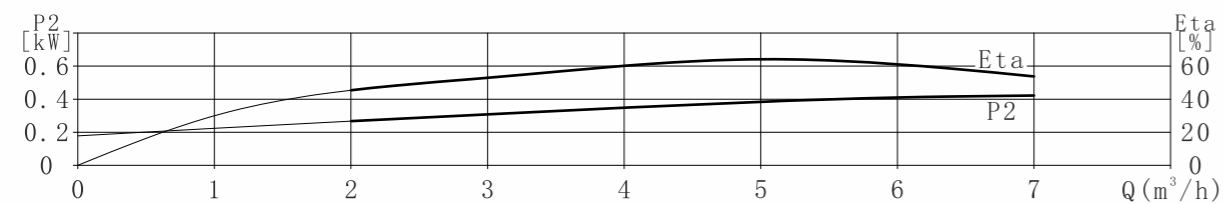
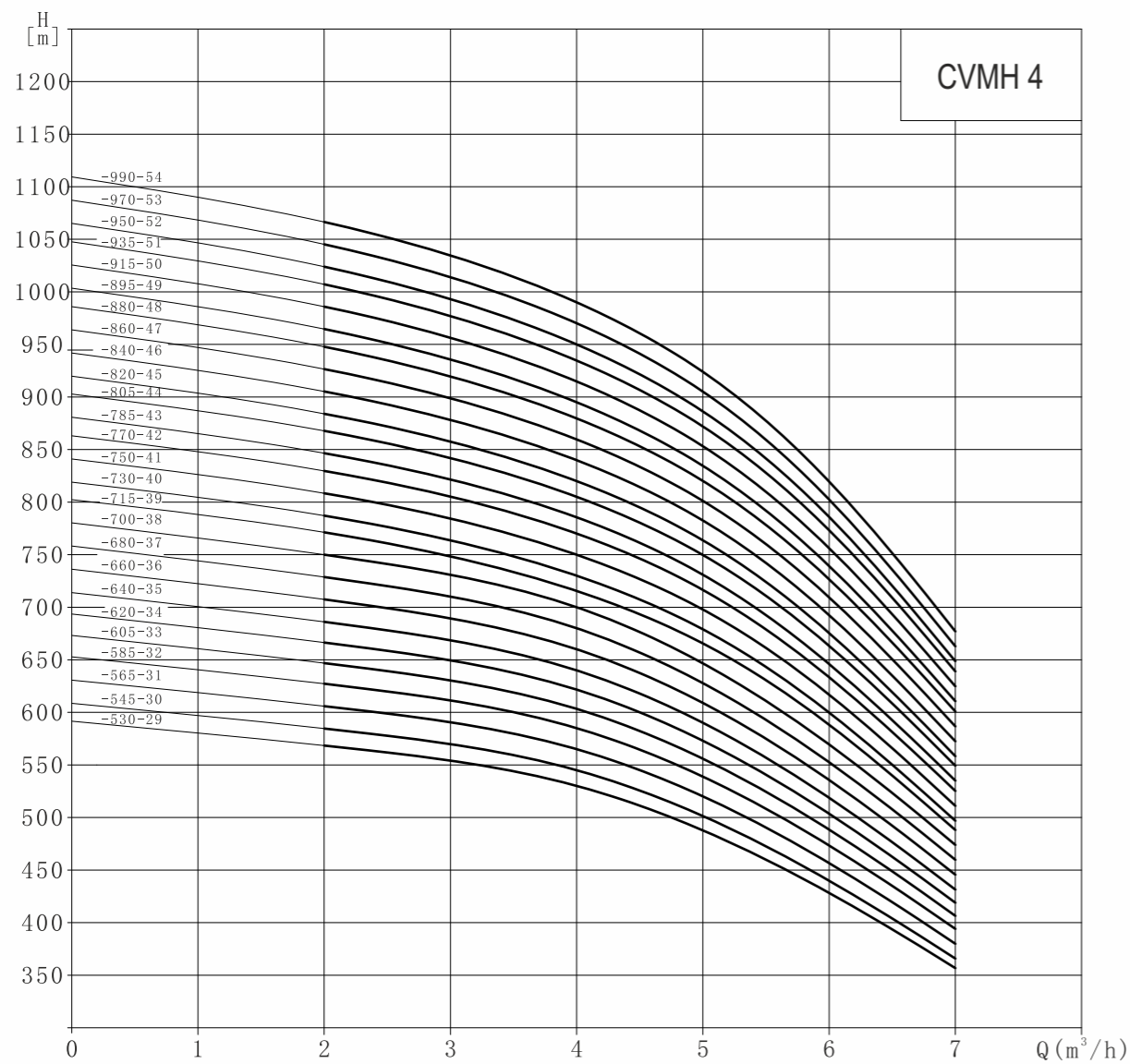
Performance data

Model	Power(kW)	Q (m³/h)	H (m)						
			2	3	4	5	6	7	
4-530-29	15	H (m)	568	554	530	488	428	357	
4-545-30	15		585	570	545	510	440	366	
4-565-31	15		606	591	565	520	457	380	
4-585-32	15		627	611	585	539	473	394	
4-605-33	15		647	630	605	556	488	406	
4-620-34	15		666	649	620	573	504	419	
4-640-35	15		686	669	640	590	519	431	
4-660-36	15		707	689	660	609	536	446	
4-680-37	15		729	710	680	628	553	460	
4-700-38	15		750	731	700	647	569	474	
4-715-39	18.5		771	748	715	666	588	488	
4-730-40	18.5		788	764	730	679	600	497	
4-750-41	18.5		809	785	750	698	617	511	
4-770-42	18.5		830	806	770	717	634	526	
4-785-43	18.5		846	821	785	730	645	534	
4-805-44	18.5		868	842	805	750	664	550	
4-820-45	22		884	858	820	764	649	559	
4-840-46	22		905	878	840	782	692	572	
4-860-47	22		927	899	860	801	710	587	
4-880-48	22		948	920	880	821	727	601	
4-895-49	22		965	936	895	834	739	611	
4-915-50	22		986	956	915	853	766	625	
4-935-51	22		1007	977	935	872	773	639	
4-950-52	22		1024	994	950	887	786	649	
4-970-53	30		1045	1013	970	905	802	662	
4-990-54	30		1067	1035	990	924	820	677	

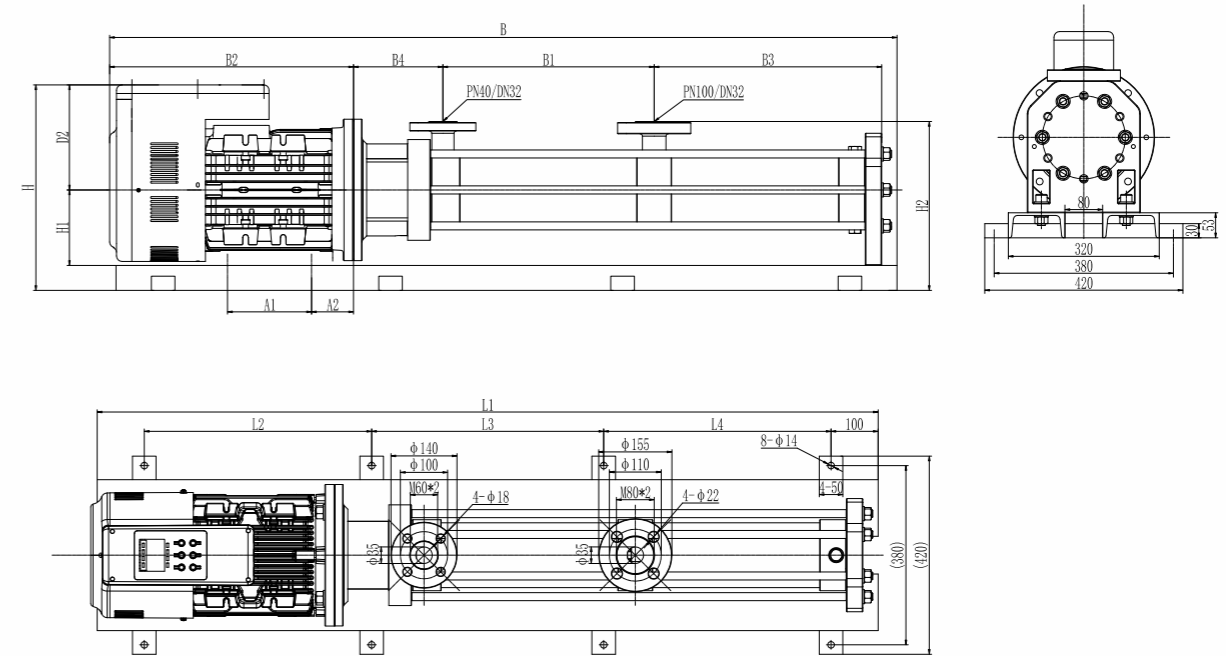
Installation dimensions and weight

Model	Dimension ( mm )															Weight (kg)
	L1	L2	L3	L4	A1	A2	B	B1	B2	B3	B4	D2	H1	H	H2	
4-530-29	1505	435	435	435	140	89	1507	358	517	410	189	172	160	385	358	175
4-545-30	1523	441	441	441	140	89	1525	376	517	410	189	172	160	385	358	176
4-565-31	1541	447	447	447	140	89	1543	376	517	428	189	172	160	385	358	177
4-585-32	1559	453	453	453	140	89	1561	394	517	428	189	172	160	385	358	178
4-605-33	1577	459	459	459	140	89	1579	394	517	446	189	172	160	385	358	179
4-620-34	1595	465	465	465	140	89	1597	412	517	446	189	172	160	385	358	180
4-640-35	1613	471	471	471	140	89	1615	412	517	464	189	172	160	385	358	181
4-660-36	1631	477	477	477	140	89	1633	430	517	464	189	172	160	385	358	182
4-680-37	1649	483	483	483	140	89	1651	430	517	482	189	172	160	385	358	184
4-700-38	1667	489	489	489	140	89	1669	448	517	482	189	172	160	385	358	185
4-715-39	1685	495	495	495	140	89	1687	448	517	500	189	172	160	385	358	196
4-730-40	1703	501	501	501	140	89	1705	466	517	500	189	172	160	385	358	197
4-750-41	1721	507	507	507	140	89	1723	466	517	518	189	172	160	385	358	198
4-770-42	1739	513	513	513	140	89	1741	484	517	518	189	172	160	385	358	199
4-785-43	1757	519	519	519	140	89	1759	484	517	536	189	172	160	385	358	200
4-805-44	1775	525	525	525	140	89	1777	502	517	536	189	172	160	385	358	201
4-820-45	1793	531	531	531	140	89	1795	502	517	554	189	172	160	385	358	207
4-840-46	1811	537	537	537	140	89	1813	520	517	554	189	172	160	385	358	208
4-860-47	1829	543	543	543	140	89	1831	520	517	572	189	172	160	385	358	210
4-880-48	1847	549	549	549	140	89	1849	538	517	572	189	172	160	385	358	211
4-895-49	1865	555	555	555	140	89	1867	538	517	590	189	172	160	385	358	212
4-915-50	1883	561	561	561	140	89	1885	556	517	590	189	172	160	385	358	213
4-935-51	1901	567	567	567	140	89	1903	556	517	608	189	172	160	385	358	214
4-950-52	1919	573	573	573	140	89	1921	574	517	608	189	172	160	385	358	215
4-970-53	2093	631	631	631	210	108	2096	574	643	626	219	234	180	467	378	286
4-990-54	2111	637	637	637	210	108	2114	592	643	626	219	234	180	467	378	287

Performance curve



Installation dimensions and weight



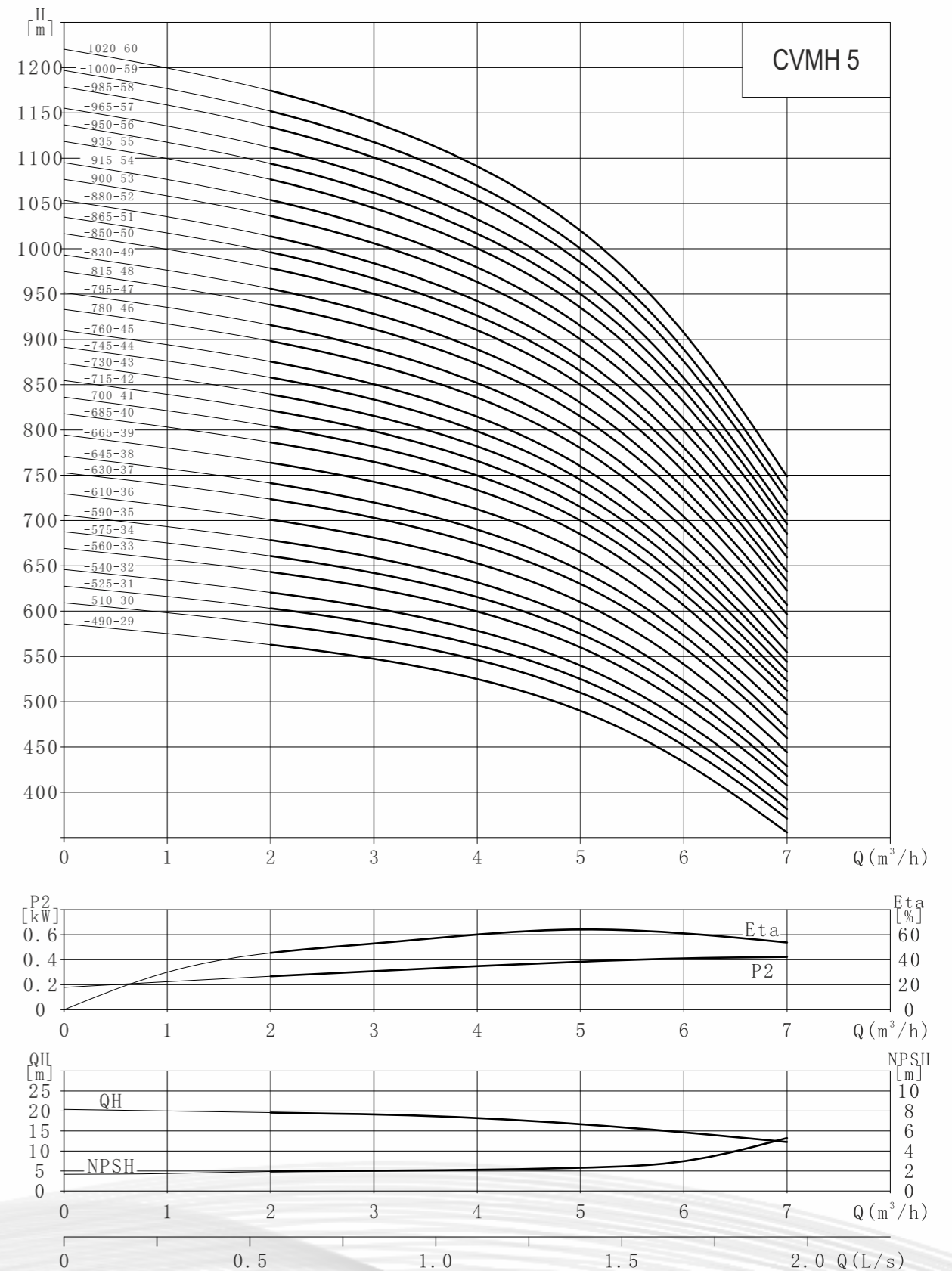
Performance data

Model	Power(kW)	Q (m³/h)	2	3	4	5	6	7
5-490-29	15	H (m)	562	547	525	490	433	356
5-510-30	15		586	569	546	510	452	371
5-525-31	15		603	586	562	525	465	382
5-540-32	15		621	603	578	540	478	392
5-560-33	15		643	625	599	560	496	408
5-575-34	15		661	642	616	575	510	418
5-590-35	15		678	659	632	590	523	429
5-610-36	15		701	681	653	610	541	444
5-630-37	15		724	703	674	630	560	460
5-645-38	15		741	720	690	645	573	471
5-665-39	18.5		764	743	713	665	588	486
5-685-40	18.5		786	765	734	685	606	502
5-700-41	18.5		804	782	750	700	620	512
5-715-42	18.5		822	799	766	715	633	523
5-730-43	18.5		839	816	782	730	646	534
5-745-44	18.5		858	834	799	745	659	544
5-760-45	22		876	851	815	760	672	555
5-780-46	22		898	872	836	780	690	570
5-795-47	22		915	889	852	795	704	581
5-815-48	22		938	911	873	815	722	596
5-830-49	22	956	928	889	830	736	607	
5-850-50	22	979	950	910	850	754	623	
5-865-51	22	996	967	926	865	767	633	
5-880-52	22	1014	984	942	880	781	644	
5-900-53	30	1036	1006	963	900	799	659	
5-915-54	30	1054	1023	980	915	812	670	
5-935-55	30	1077	1045	1001	935	831	686	
5-950-56	30	1094	1062	1017	950	844	696	
5-965-57	30	1112	1079	1033	965	857	707	
5-985-58	30	1134	1101	1054	985	876	722	
5-1000-59	30	1152	1118	1070	1000	889	733	
5-1020-60	30	1175	1140	1091	1020	907	749	

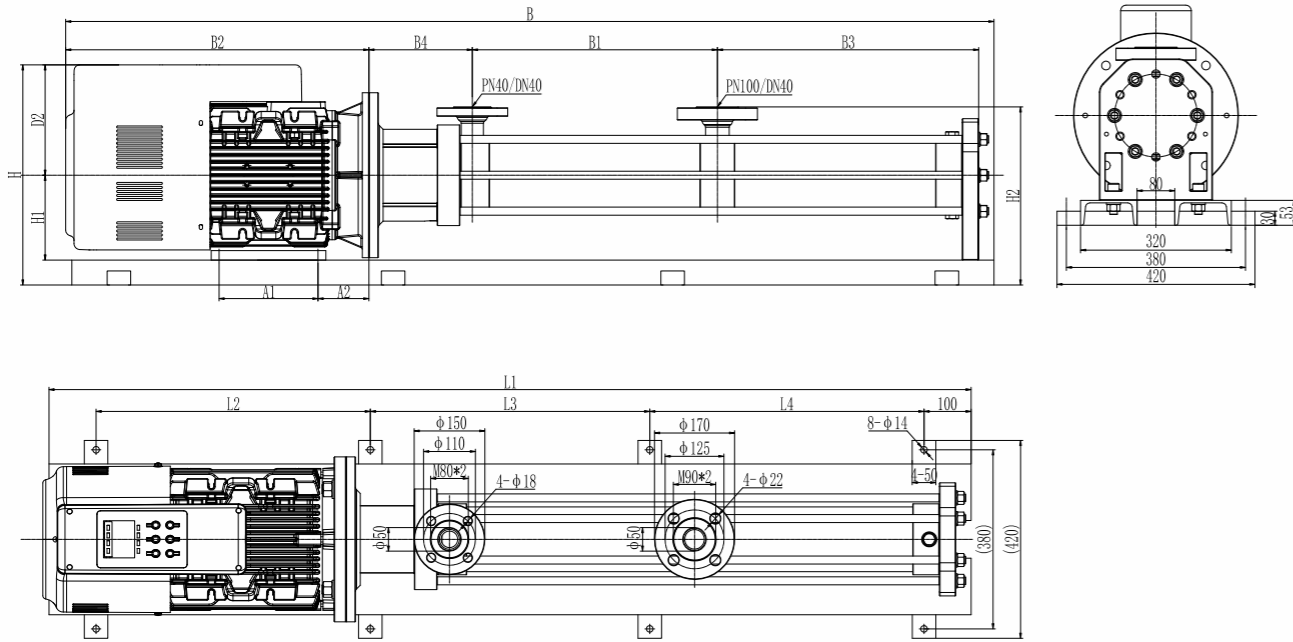
Installation dimensions and weight

Model	Dimension ( mm )															Weight (kg)
	L1	L2	L3	L4	A1	A2	B	B1	B2	B3	B4	D2	H1	H	H2	
5-490-29	1505	435	435	435	140	89	1507	358	517	410	189	172	160	385	358	172
5-510-30	1523	441	441	441	140	89	1525	376	517	410	189	172	160	385	358	173
5-525-31	1541	447	447	447	140	89	1543	376	517	428	189	172	160	385	358	174
5-540-32	1559	453	453	453	140	89	1561	394	517	428	189	172	160	385	358	175
5-560-33	1577	459	459	459	140	89	1579	394	517	446	189	172	160	385	358	176
5-575-34	1595	465	465	465	140	89	1597	412	517	446	189	172	160	385	358	177
5-590-35	1613	471	471	471	140	89	1615	412	517	464	189	172	160	385	358	178
5-610-36	1631	477	477	477	140	89	1633	430	517	464	189	172	160	385	358	179
5-630-37	1649	483	483	483	140	89	1651	430	517	482	189	172	160	385	358	181
5-645-38	1667	489	489	489	140	89	1669	448	517	482	189	172	160	385	358	182
5-665-39	1685	495	495	495	140	89	1687	448	517	500	189	172	160	385	358	193
5-685-40	1703	501	501	501	140	89	1705	466	517	500	189	172	160	385	358	194
5-700-41	1721	507	507	507	140	89	1723	466	517	518	189	172	160	385	358	195
5-715-42	1739	513	513	513	140	89	1741	484	517	518	189	172	160	385	358	196
5-730-43	1757	519	519	519	140	89	1759	484	517	536	189	172	160	385	358	197
5-745-44	1775	525	525	525	140	89	1777	502	517	536	189	172	160	385	358	198
5-760-45	1793	531	531	531	140	89	1795	502	517	554	189	172	160	385	358	204
5-780-46	1811	537	537	537	140	89	1813	520	517	554	189	172	160	385	358	205
5-795-47	1829	543	543	543	140	89	1831	520	517	572	189	172	160	385	358	207
5-815-48	1847	549	549	549	140	89	1849	538	517	572	189	172	160	385	358	208
5-830-49	1865	555	555	555	140	89	1867	538	517	590	189	172	160	385	358	209
5-850-50	1883	561	561	561	140	89	1885	556	517	590	189	172	160	385	358	210
5-865-51	1901	567	567	567	140	89	1903	556	517	608	189	172	160	385	358	211
5-880-52	1919	573	573	573	140	89	1921	574	517	608	189	172	160	385	358	212
5-900-53	2093	631	631	631	210	108	2096	574	643	626	219	234	180	467	378	286
5-915-54	2111	637	637	637	210	108	2114	592	643	626	219	234	180	467	378	287
5-935-55	2129	643	643	643	210	108	2132	592	643	644	219	234	180	467	378	288
5-950-56	2147	649	649	649	210	108	2150	610	643	644	219	234	180	467	378	289
5-965-57	2165	655	655	655	210	108	2168	610	643	662	219	234	180	467	378	290
5-985-58	2183	661	661	661	210	108	2186	628	643	662	219	234	180	467	378	291
5-1000-59	2201	667	667	667	210	108	2204	628	643	680	219	234	180	467	378	292
5-1020-60	2219	673	673	673	210	108	2222	646	643	680	219	234	180	467	378	293

Performance curve



Installation dimensions and weight



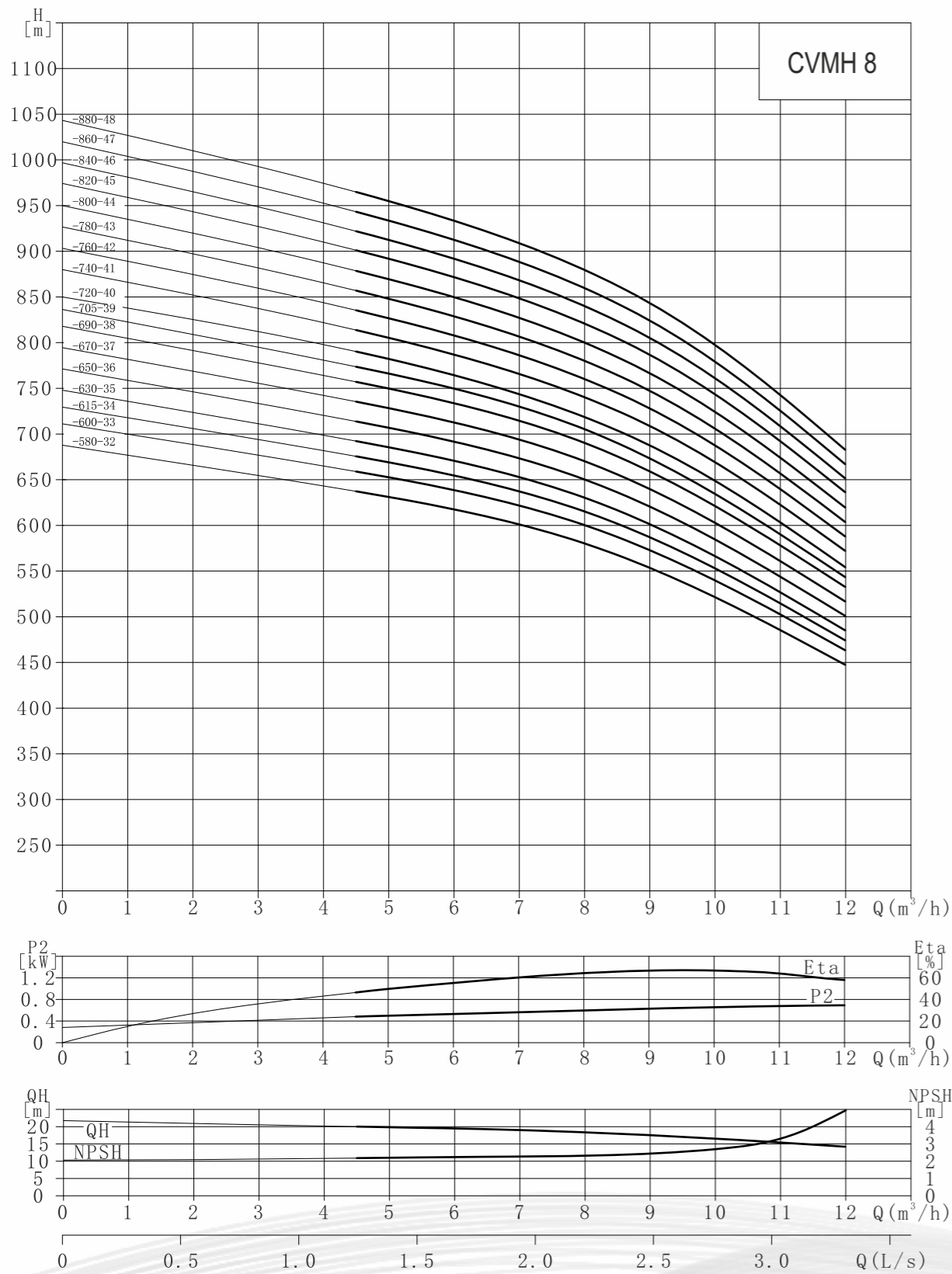
Performance data

Model	Power(kW)	Q (m <sup>3</sup> /h)	H (m)									
			4.5	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	
8-580-32	30	H (m)	637	631	617	600	580	553	521	485	447	
8-600-33	30		659	653	639	622	600	573	540	502	463	
8-615-34	30		676	669	655	637	615	587	553	515	474	
8-630-35	30		692	686	671	653	630	601	566	527	485	
8-650-36	30		714	707	692	673	650	621	584	544	501	
8-670-37	30		735	728	713	694	670	640	603	561	517	
8-690-38	30		757	750	734	714	690	659	621	578	533	
8-705-39	30		774	766	750	730	705	673	634	590	543	
8-720-40	37		791	783	765	745	720	688	650	604	555	
8-740-41	37		814	805	787	766	740	709	669	622	572	
8-760-42	37		835	827	808	786	760	728	687	640	588	
8-780-43	37		857	848	829	807	780	747	706	657	604	
8-800-44	37		879	869	850	827	800	766	724	674	620	
8-820-45	37		901	892	872	848	820	787	743	692	636	
8-840-46	37		922	912	892	868	840	806	761	708	651	
8-860-47	37		943	934	912	888	860	824	779	725	667	
8-880-48	37		965	955	933	909	880	843	797	742	683	

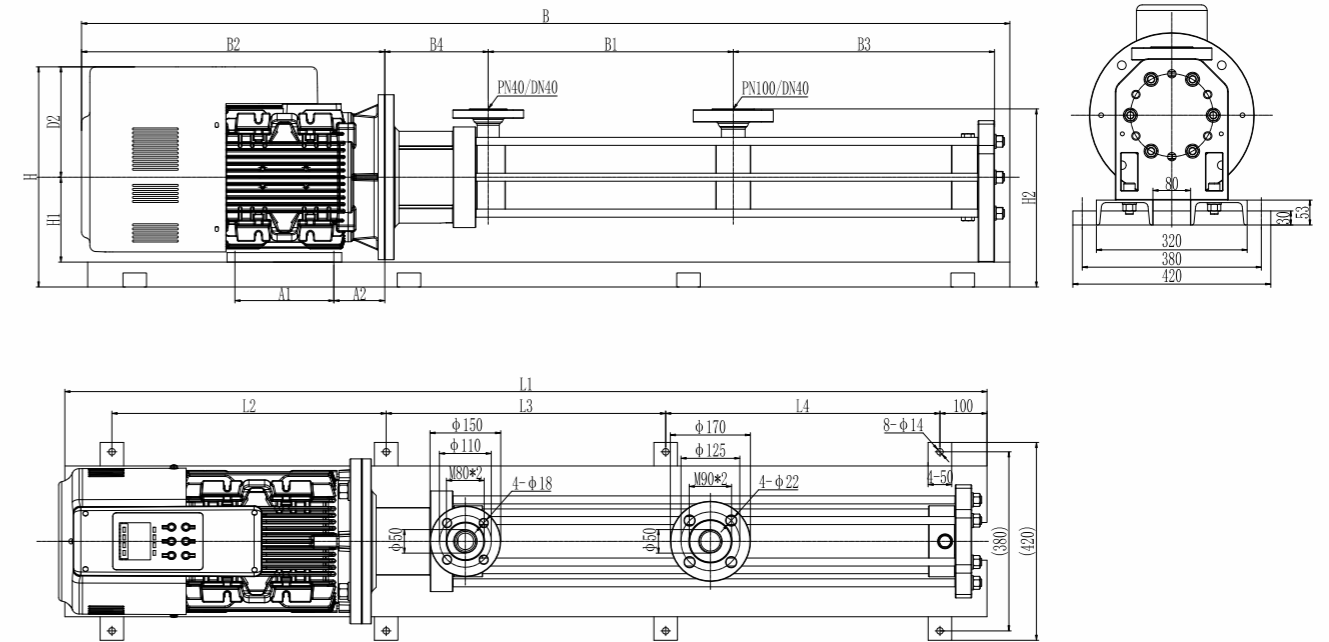
Installation dimensions and weight

Model	Dimension ( mm )															Weight (kg)
	L1	L2	L3	L4	A1	A2	B	B1	B2	B3	B4	D2	H1	H	H2	
8-580-32	2003	601	601	601	210	108	2024	547	643	581	219	234	180	467	378	281
8-600-33	2030	610	610	610	210	108	2051	547	643	608	219	234	180	467	378	282
8-615-34	2057	619	619	619	210	108	2078	574	643	608	219	234	180	467	378	284
8-630-35	2084	628	628	628	210	108	2105	574	643	635	219	234	180	467	378	285
8-650-36	2111	637	637	637	210	108	2132	601	643	635	219	234	180	467	378	287
8-670-37	2138	646	646	646	210	108	2159	601	643	662	219	234	180	467	378	289
8-690-38	2165	655	655	655	210	108	2186	628	643	662	219	234	180	467	378	290
8-705-39	2192	664	664	664	210	108	2213	628	643	689	219	234	180	467	378	292
8-720-40	2219	673	673	673	210	108	2240	655	643	689	219	234	180	467	378	303
8-740-41	2246	682	682	682	210	108	2267	655	643	716	219	234	180	467	378	305
8-760-42	2273	691	691	691	210	108	2294	682	643	716	219	234	180	467	378	307
8-780-43	2300	700	700	700	210	108	2321	682	643	743	219	234	180	467	378	308
8-800-44	2327	709	709	709	210	108	2348	709	643	743	219	234	180	467	378	310
8-820-45	2354	718	718	718	210	108	2375	709	643	770	219	234	180	467	378	311
8-840-46	2381	727	727	727	210	108	2402	736	643	770	219	234	180	467	378	313
8-860-47	2408	736	736	736	210	108	2429	736	643	797	219	234	180	467	378	314
8-880-48	2435	745	745	745	210	108	2456	763	643	797	219	234	180	467	378	316

**Performance curve**



**Installation dimensions and weight**



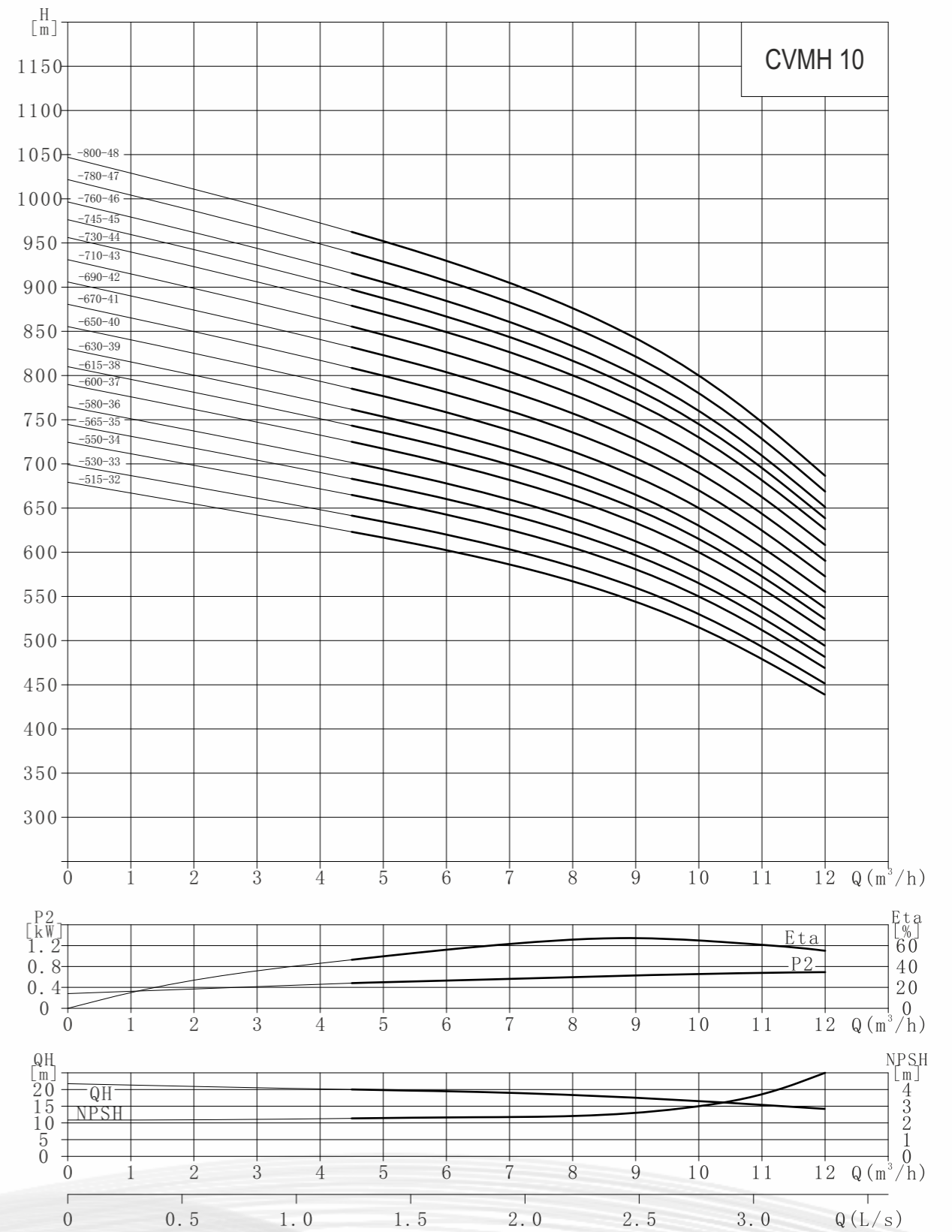
**Performance data**

Model	Power(kW)	Q (m³/h)	4.5	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0
10-515-32	30	H (m)	623	616	602	586	567	544	515	479	439
10-530-33	30		641	635	620	603	584	560	530	493	452
10-550-34	30		664	658	643	625	605	581	550	512	469
10-565-35	30		683	676	660	642	622	596	565	526	482
10-580-36	30		702	694	678	660	638	612	580	540	494
10-600-37	30		725	717	700	682	660	633	600	559	512
10-615-38	30		743	735	718	699	676	649	615	573	525
10-630-39	30		762	753	736	716	693	665	630	586	537
10-650-40	37		785	777	758	738	714	686	650	606	555
10-670-41	37		809	800	781	760	736	706	670	624	573
10-690-42	37		832	823	804	782	757	727	690	643	590
10-710-43	37		855	846	826	804	779	748	710	662	608
10-730-44	37		879	869	849	826	800	769	730	681	626
10-745-45	37		897	888	867	844	816	785	745	695	638
10-760-46	37		916	906	884	861	833	800	760	709	651
10-780-47	37		939	929	907	883	855	821	780	728	669
10-800-48	37	963	952	930	905	876	842	800	747	687	

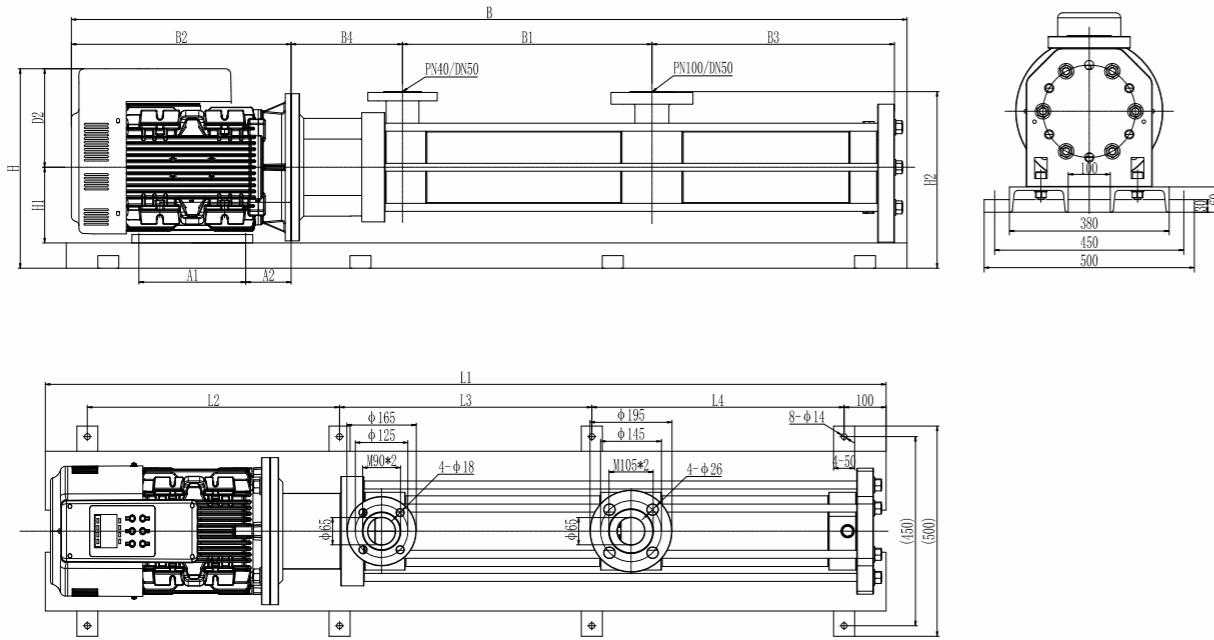
Installation dimensions and weight

Model	Dimension ( mm )															Weight (kg)
	L1	L2	L3	L4	A1	A2	B	B1	B2	B3	B4	D2	H1	H	H2	
10-515-32	2003	601	601	601	210	108	2024	547	643	581	219	234	180	467	378	281
10-530-33	2030	610	610	610	210	108	2051	547	643	608	219	234	180	467	378	282
10-550-34	2057	619	619	619	210	108	2078	574	643	608	219	234	180	467	378	284
10-565-35	2084	628	628	628	210	108	2105	574	643	635	219	234	180	467	378	285
10-580-36	2111	637	637	637	210	108	2132	601	643	635	219	234	180	467	378	287
10-600-37	2138	646	646	646	210	108	2159	601	643	662	219	234	180	467	378	289
10-615-38	2165	655	655	655	210	108	2186	628	643	662	219	234	180	467	378	290
10-630-39	2192	664	664	664	210	108	2213	628	643	689	219	234	180	467	378	292
10-650-40	2219	673	673	673	210	108	2240	655	643	689	219	234	180	467	378	303
10-670-41	2246	682	682	682	210	108	2267	655	643	716	219	234	180	467	378	305
10-690-42	2273	691	691	691	210	108	2294	682	643	716	219	234	180	467	378	307
10-710-43	2300	700	700	700	210	108	2321	682	643	743	219	234	180	467	378	308
10-730-44	2327	709	709	709	210	108	2348	709	643	743	219	234	180	467	378	310
10-745-45	2354	718	718	718	210	108	2375	709	643	770	219	234	180	467	378	311
10-760-46	2381	727	727	727	210	108	2402	736	643	770	219	234	180	467	378	313
10-780-47	2408	736	736	736	210	108	2429	736	643	797	219	234	180	467	378	314
10-800-48	2435	745	745	745	210	108	2456	763	643	797	219	234	180	467	378	316

Performance curve



Installation dimensions and weight



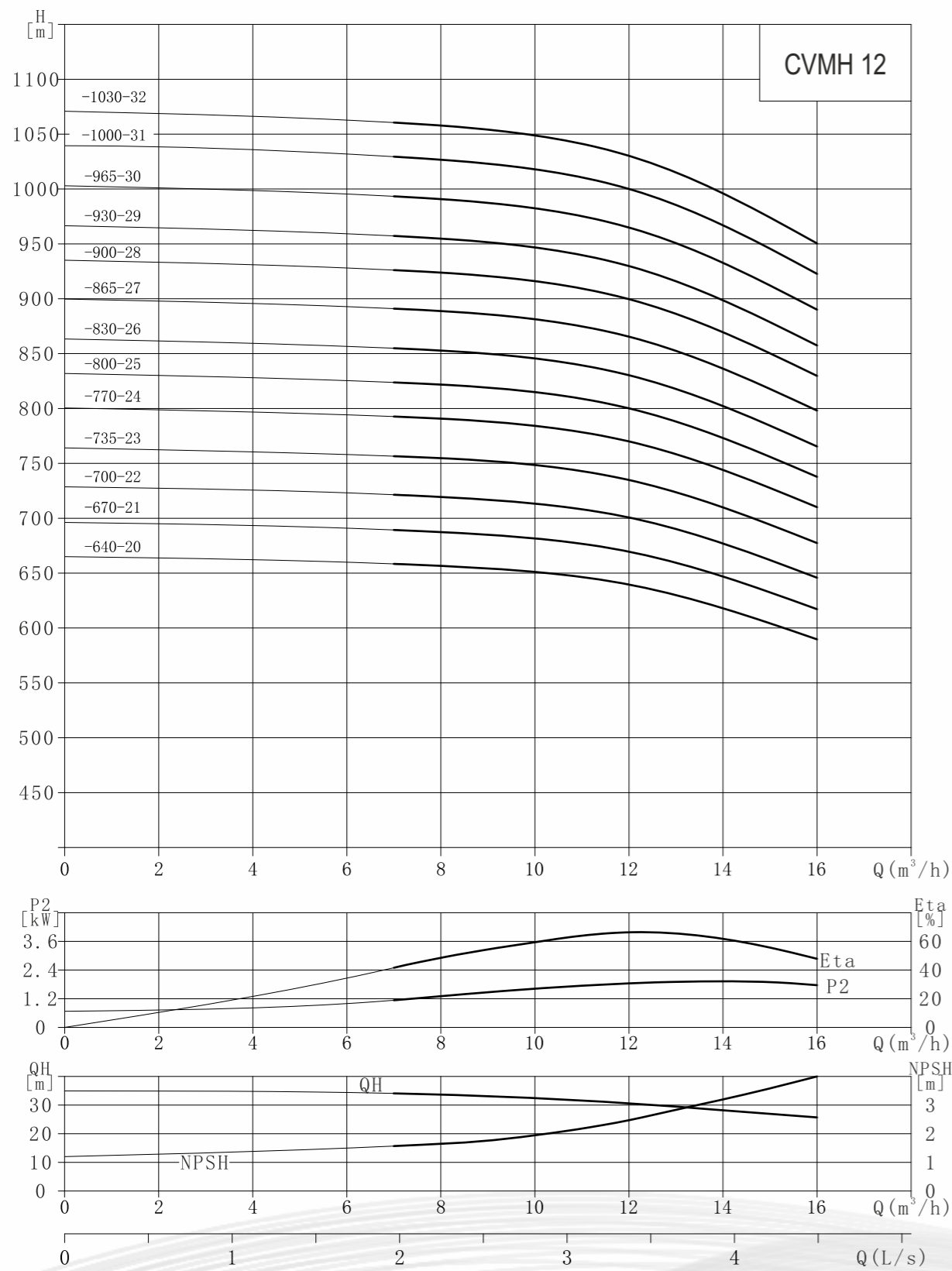
Performance data

Model	Power(kW)	Q (m³/h)	7	8	10	12	14	16
12-640-20	45	H (m)	658	657	651	640	618	590
12-670-21	45		689	687	682	670	647	617
12-700-22	45		721	719	713	700	677	646
12-735-23	55		757	754	748	735	710	677
12-770-24	55		793	791	784	770	744	710
12-800-25	55		824	822	815	800	773	738
12-830-26	55		855	853	846	830	802	765
12-865-27	55		891	889	881	865	836	798
12-900-28	55		926	924	916	900	869	830
12-930-29	55		957	955	947	930	899	857
12-965-30	55		993	991	982	965	933	890
12-1000-31	55		1029	1026	1018	1000	967	923
12-1030-32	55		1061	1058	1049	1030	996	950

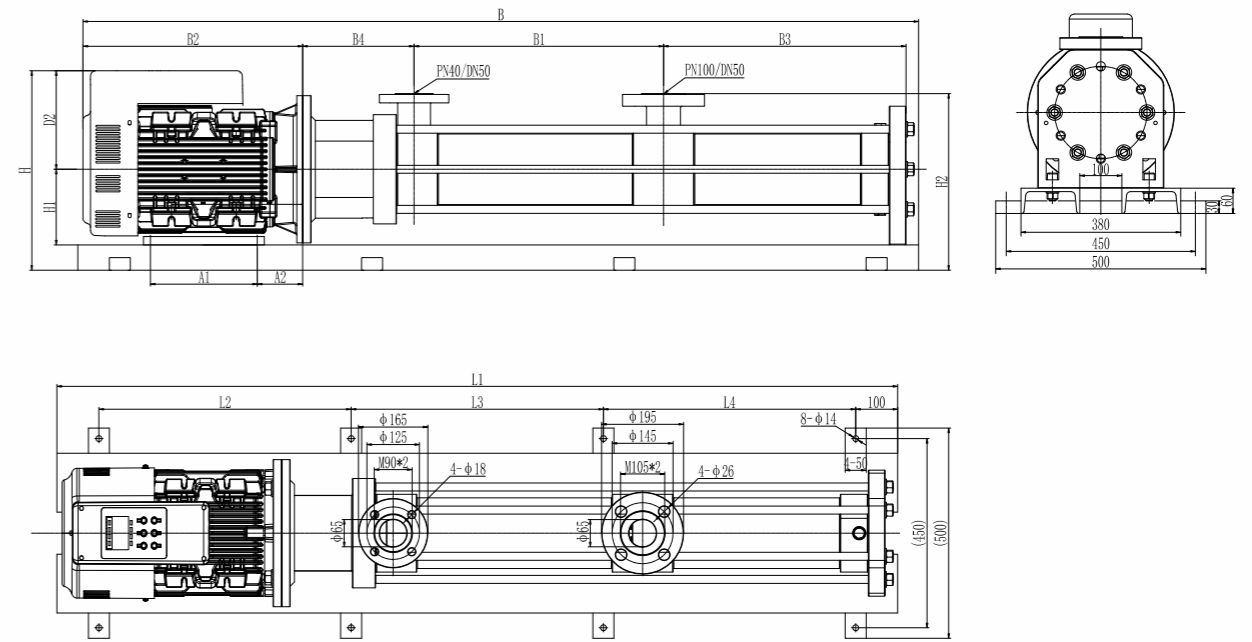
Installation dimensions and weight

Model	Dimension ( mm )															Weight (kg)
	L1	L2	L3	L4	A1	A2	B	B1	B2	B3	B4	D2	H1	H	H2	
12-640-20	1826	542	542	542	210	108	1838	443	643	456	265	234	180	474	420	360
12-670-21	1856	552	552	552	210	108	1868	443	643	486	265	234	180	474	420	365
12-700-22	1886	562	562	562	210	108	1898	473	643	486	265	234	180	474	420	367
12-735-23	1916	572	572	572	210	108	1807	473	522	516	265	235	180	475	420	385
12-770-24	1946	582	582	582	210	108	1837	503	522	516	265	235	180	475	420	388
12-800-25	1976	592	592	592	210	108	1867	503	522	546	265	235	180	475	420	390
12-830-26	1886	562	562	562	210	108	1897	533	522	546	265	235	180	475	420	393
12-865-27	1916	572	572	572	210	108	1927	533	522	576	265	235	180	475	420	396
12-900-28	1946	582	582	582	210	108	1957	563	522	576	265	235	180	475	420	398
12-930-29	1976	592	592	592	210	108	1987	563	522	606	265	235	180	475	420	401
12-965-30	2006	602	602	602	210	108	2017	593	522	606	265	235	180	475	420	403
12-1000-31	2036	612	612	612	210	108	2047	593	522	636	265	235	180	475	420	406
12-1030-32	2066	622	622	622	210	108	2077	623	522	636	265	235	180	475	420	409

**Performance curve**



**Installation dimensions and weight**



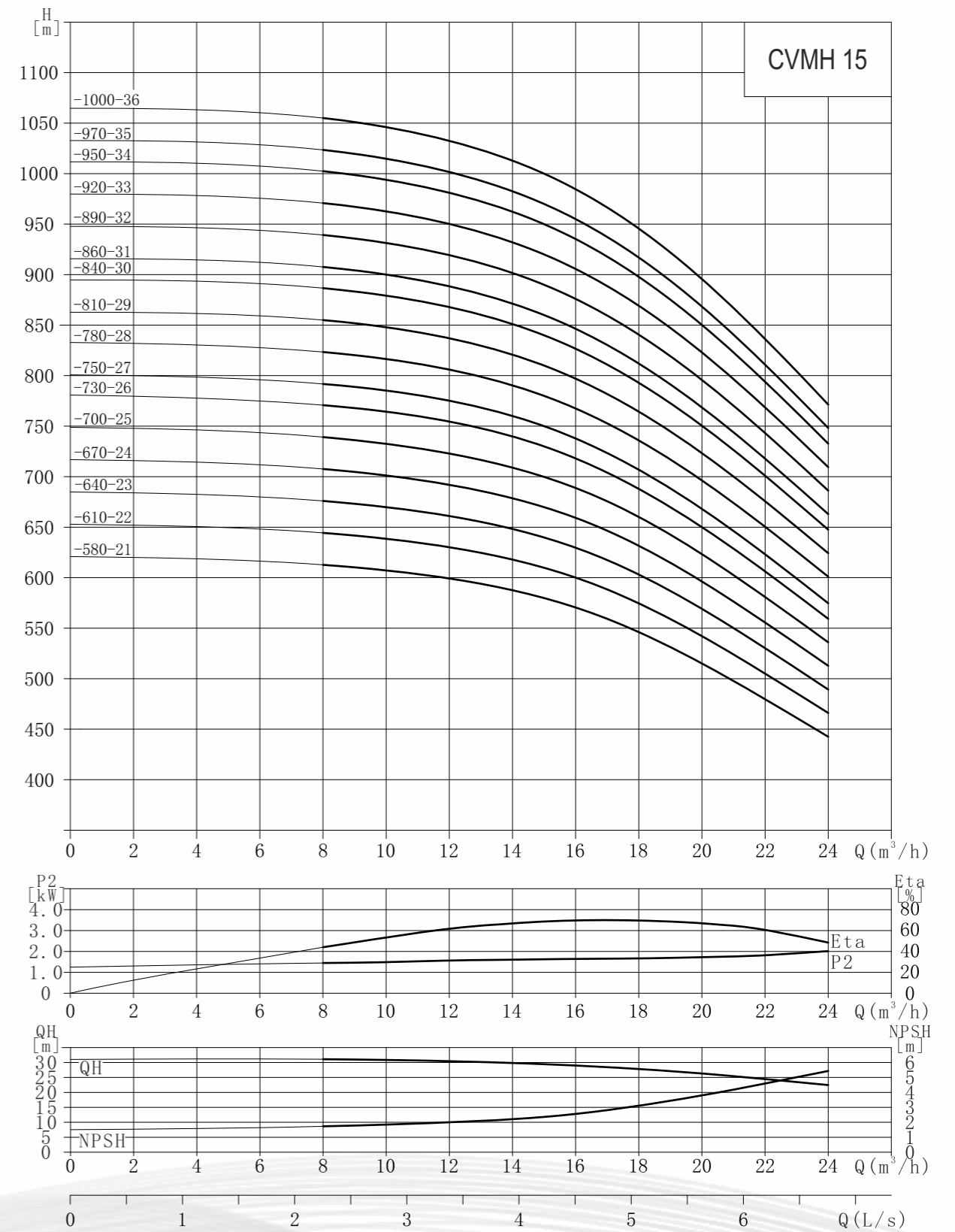
**Performance data**

Model	Power(kW)	Q (m³/h)	8	10	12	14	15	16	18	20	22	23	24
15-580-21	45	H (m)	613	607	599	588	580	571	546	515	480	461	443
15-610-22	45		644	639	630	618	610	600	575	542	505	485	466
15-640-23	45		676	670	661	648	640	630	603	569	530	510	489
15-670-24	45		708	701	692	679	670	659	632	596	556	534	513
15-700-25	45		739	733	723	709	700	689	660	623	581	558	536
15-730-26	55		771	764	755	740	730	718	688	650	606	583	559
15-750-27	55		792	785	775	760	750	738	707	668	623	599	575
15-780-28	55		823	816	806	790	780	767	736	696	650	626	601
15-810-29	55		855	848	837	821	810	797	764	723	676	650	624
15-840-30	55		887	879	868	851	840	827	793	750	701	674	647
15-860-31	75		908	900	888	871	860	846	812	769	718	690	663
15-890-32	75		939	931	919	902	890	876	841	796	743	715	686
15-920-33	75		971	963	950	932	920	906	869	823	769	739	709
15-950-34	75		1002	994	981	962	950	935	898	850	794	763	733
15-970-35	75		1023	1015	1002	983	970	955	917	869	811	780	748
15-1000-36	75		1055	1046	1032	1013	1000	985	946	896	836	804	771

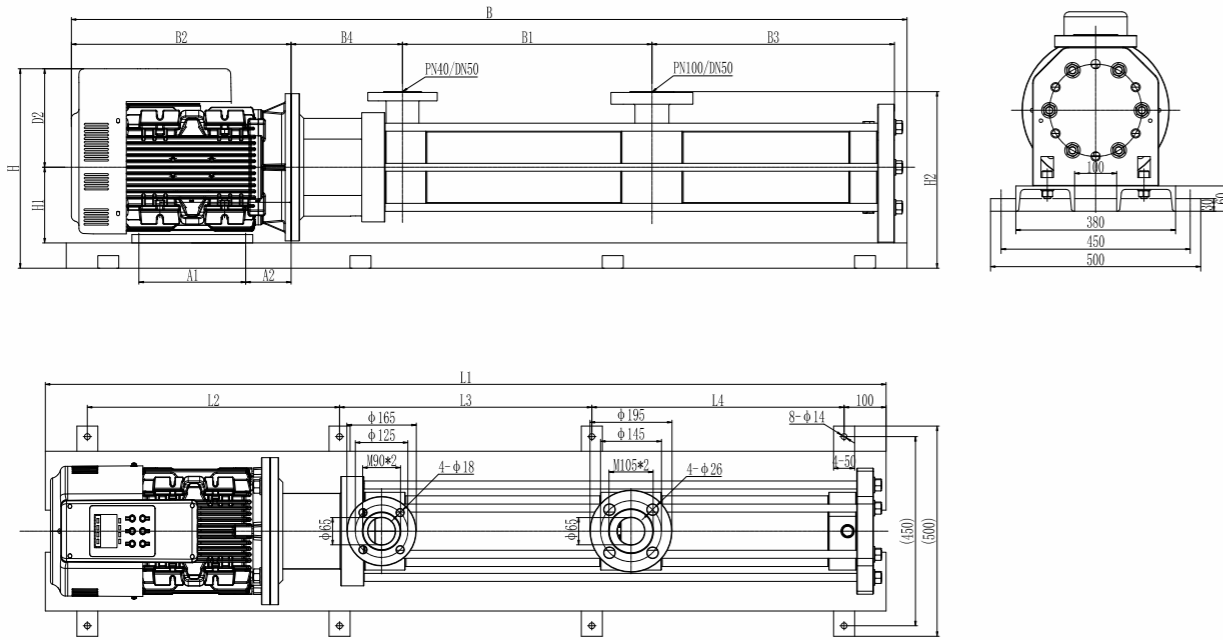
Installation dimensions and weight

Model	Dimension ( mm )															Weight (kg)
	L1	L2	L3	L4	A1	A2	B	B1	B2	B3	B4	D2	H1	H	H2	
15-580-21	1856	552	552	552	210	108	1868	443	643	486	265	234	180	474	420	365
15-610-22	1886	562	562	562	210	108	1898	473	643	486	265	234	180	474	420	367
15-640-23	1916	572	572	572	210	108	1928	473	643	516	265	234	180	474	420	370
15-670-24	1946	582	582	582	210	108	1958	503	643	516	265	234	180	474	420	373
15-700-25	1976	592	592	592	210	108	1988	503	643	546	265	234	180	474	420	375
15-730-26	1886	562	562	562	210	108	1897	533	522	546	265	235	180	475	420	393
15-750-27	1916	572	572	572	210	108	1927	533	522	576	265	235	180	475	420	396
15-780-28	1946	582	582	582	210	108	1957	563	522	576	265	235	180	475	420	398
15-810-29	1976	592	592	592	210	108	1987	563	522	606	265	235	180	475	420	401
15-840-30	2006	602	602	602	210	108	2017	593	522	606	265	235	180	475	420	403
15-860-31	2036	612	612	612	254	108	2047	593	522	636	265	235	180	475	420	441
15-890-32	2066	622	622	622	254	108	2077	623	522	636	265	235	180	475	420	444
15-920-33	2096	632	632	632	254	108	2107	623	522	666	265	235	180	475	420	446
15-950-34	2126	642	642	642	254	108	2137	653	522	666	265	235	180	475	420	449
15-970-35	2156	652	652	652	254	108	2167	653	522	696	265	235	180	475	420	452
15-1000-36	2186	662	662	662	254	108	2197	683	522	696	265	235	180	475	420	454

Performance curve



Installation dimensions and weight



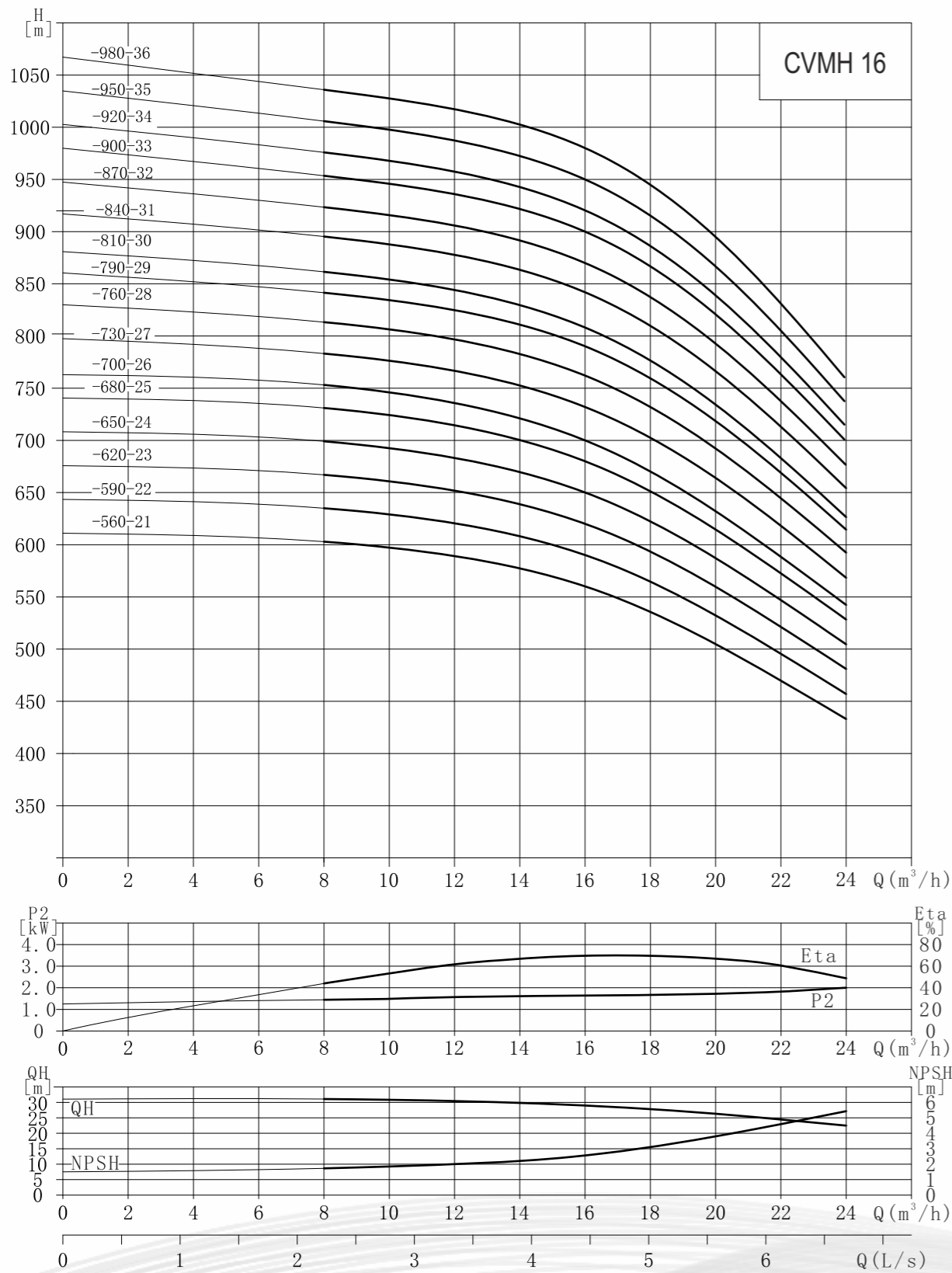
Performance data

Model	Power(kW)	Q (m³/h)	H (m)								
			8	10	12	14	16	18	20	22	24
16-560-21	45	H (m)	603	597	589	577	560	536	505	470	433
16-590-22	45		635	629	621	608	590	505	532	496	457
16-620-23	45		667	661	652	639	620	593	560	521	481
16-650-24	45		699	693	683	670	650	622	587	547	505
16-680-25	45		731	724	714	700	680	651	615	573	528
16-700-26	55		753	746	736	721	700	670	632	588	542
16-730-27	55		781	774	765	750	730	700	662	616	566
16-760-28	55		811	804	795	781	760	730	690	643	590
16-790-29	55		841	834	825	811	790	759	719	669	614
16-810-30	55		863	856	846	832	810	779	736	685	629
16-840-31	75		897	890	880	865	840	812	768	715	656
16-870-32	75		923	916	906	892	870	837	793	738	677
16-900-33	75		954	946	936	922	900	867	821	763	701
16-920-34	75		976	968	958	943	920	886	839	780	715
16-950-35	75		1006	998	987	972	950	915	867	805	738
16-980-36	75		1036	1028	1017	1003	980	945	895	831	760

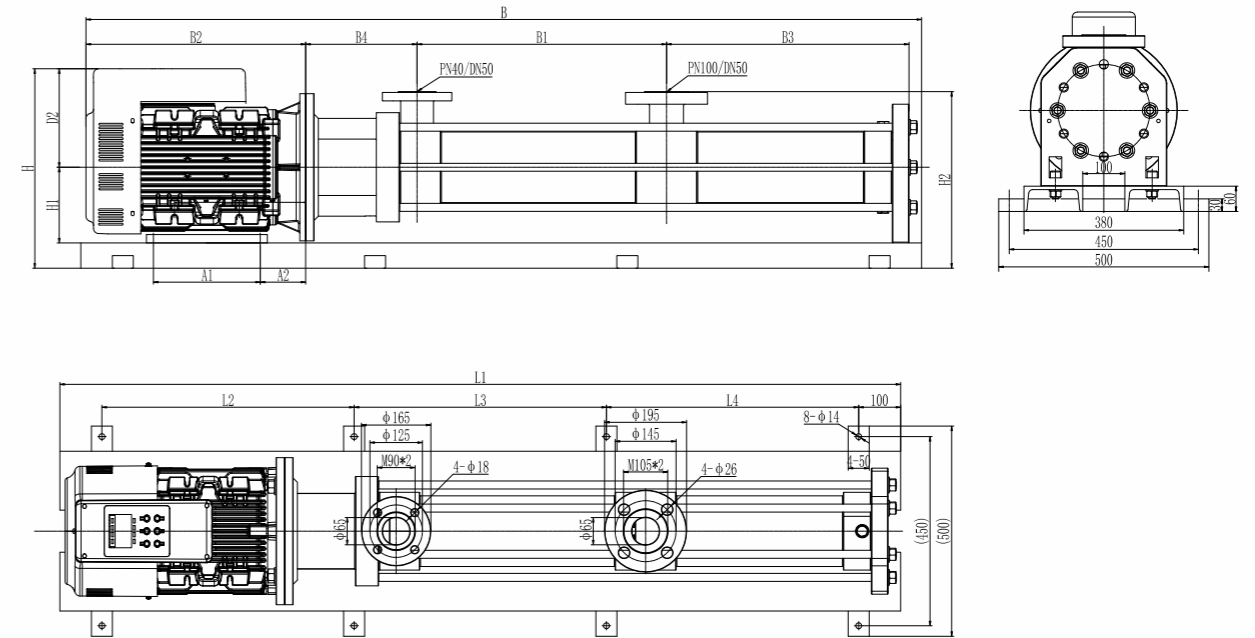
Installation dimensions and weight

Model	Dimension ( mm )															Weight (kg)
	L1	L2	L3	L4	A1	A2	B	B1	B2	B3	B4	D2	H1	H	H2	
16-560-21	1856	552	552	552	210	108	1868	443	643	486	265	234	180	474	420	365
16-590-22	1886	562	562	562	210	108	1898	473	643	486	265	234	180	474	420	367
16-620-23	1916	572	572	572	210	108	1928	473	643	516	265	234	180	474	420	370
16-650-24	1946	582	582	582	210	108	1958	503	643	516	265	234	180	474	420	373
16-680-25	1976	592	592	592	210	108	1988	503	643	546	265	234	180	474	420	375
16-700-26	1886	562	562	562	210	108	1897	533	522	546	265	235	180	475	420	393
16-730-27	1916	572	572	572	210	108	1927	533	522	576	265	235	180	475	420	396
16-760-28	1946	582	582	582	210	108	1957	563	522	576	265	235	180	475	420	398
16-790-29	1976	592	592	592	210	108	1987	563	522	606	265	235	180	475	420	401
16-810-30	2006	602	602	602	210	108	2017	593	522	606	265	235	180	475	420	403
16-840-31	2036	612	612	612	254	108	2047	593	522	636	265	235	180	475	420	441
16-870-32	2066	622	622	622	254	108	2077	623	522	636	265	235	180	475	420	444
16-900-33	2096	632	632	632	254	108	2107	623	522	666	265	235	180	475	420	446
16-920-34	2126	642	642	642	254	108	2137	653	522	666	265	235	180	475	420	449
16-950-35	2156	652	652	652	254	108	2167	653	522	696	265	235	180	475	420	452
16-980-36	2186	662	662	662	254	108	2197	683	522	696	265	235	180	475	420	454

Performance curve



Installation dimensions and weight



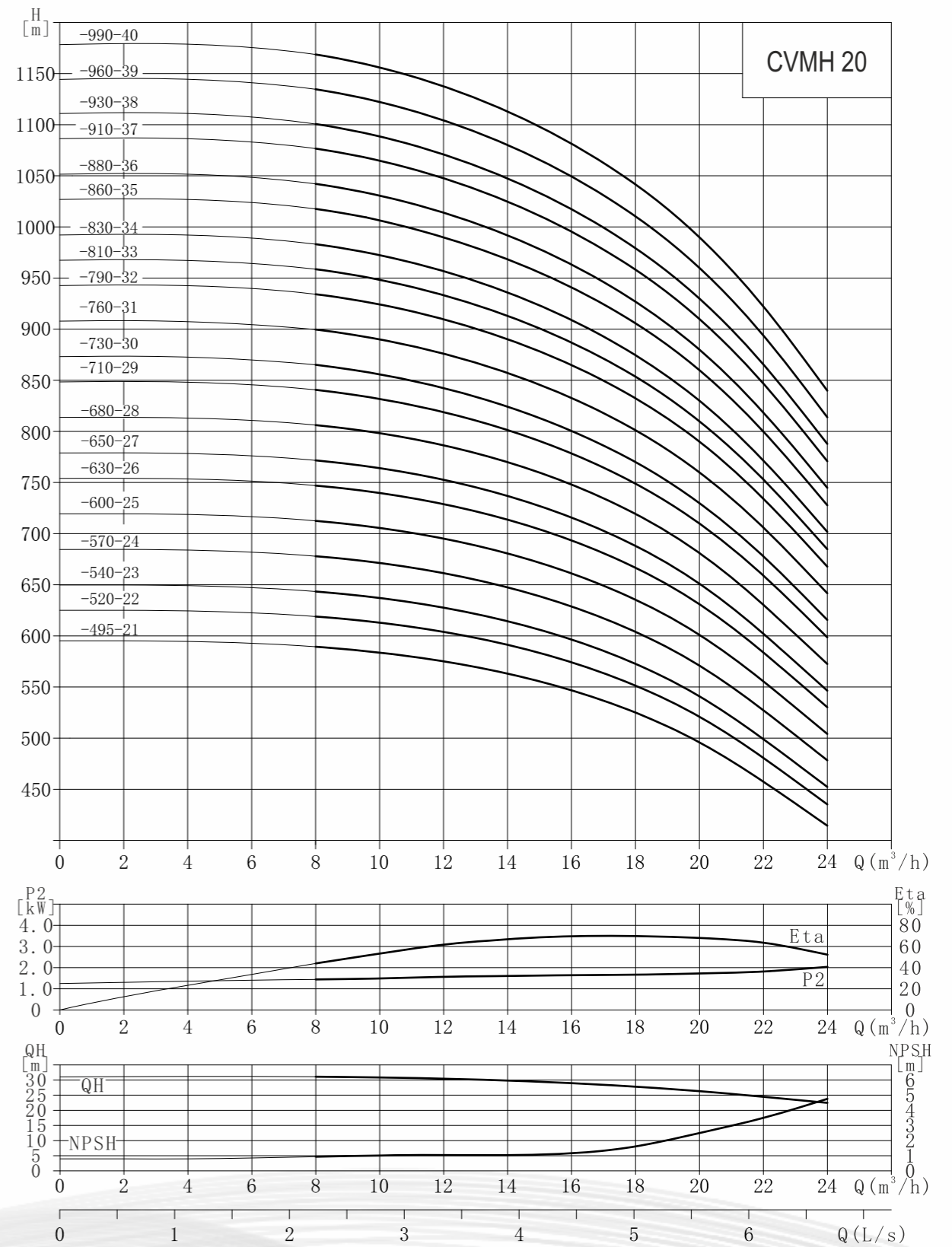
Performance data

Model	Power(kW)	Q (m³/h)	8	10	12	14	15	16	18	20	22	23	24
20-495-21	45	H (m)	589	584	575	563	556	547	525	495	457	436	414
20-520-22	45		619	613	604	591	583	574	551	520	481	458	435
20-540-23	45		643	637	628	614	606	596	572	540	499	476	452
20-570-24	45		678	671	661	647	639	629	604	570	527	503	478
20-600-25	45		713	706	695	681	672	661	635	600	555	530	504
20-630-26	55		747	740	729	714	704	693	667	630	584	557	530
20-650-27	55		772	764	753	737	727	716	688	650	602	574	546
20-680-28	55		806	798	786	770	760	748	719	680	630	602	573
20-710-29	55		841	832	819	800	791	778	749	710	659	629	599
20-730-30	55		865	856	842	824	813	800	770	730	678	647	616
20-760-31	75		900	890	876	857	846	833	801	760	706	674	642
20-790-32	75		934	924	910	890	878	865	832	790	734	702	668
20-810-33	75		959	948	933	913	901	887	853	810	753	720	685
20-830-34	75		983	972	957	936	923	909	875	830	771	737	702
20-860-35	75		1018	1006	990	968	955	941	906	860	800	765	728
20-880-36	75		1042	1031	1014	992	978	963	927	880	818	783	745
20-910-37	75		1077	1065	1048	1025	1011	995	958	910	847	810	771
20-930-38	75		1101	1088	1071	1048	1033	1017	979	930	865	828	788
20-960-39	75	1135	1122	1104	1080	1066	1049	1010	960	894	855	814	
20-990-40	75	1169	1156	1137	1113	1098	1081	1041	990	922	882	840	

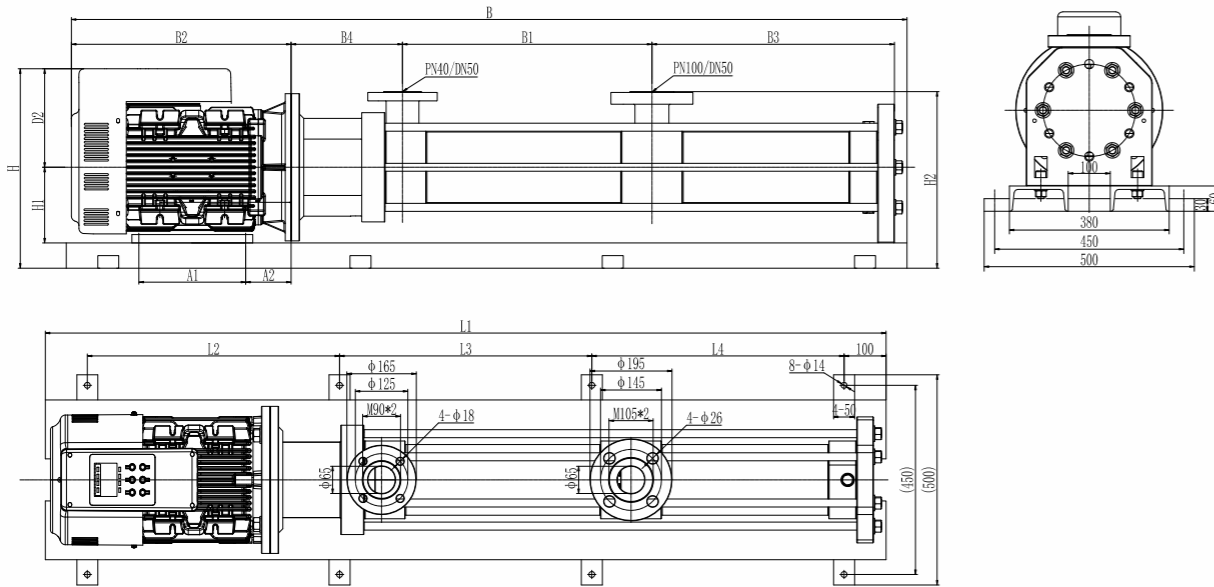
Installation dimensions and weight

Model	Dimension ( mm )															Weight (kg)
	L1	L2	L3	L4	A1	A2	B	B1	B2	B3	B4	D2	H1	H	H2	
20-495-21	1856	552	552	552	210	108	1868	443	643	486	265	234	180	474	420	365
20-520-22	1886	562	562	562	210	108	1898	473	643	486	265	234	180	474	420	367
20-540-23	1916	572	572	572	210	108	1928	473	643	516	265	234	180	474	420	370
20-570-24	1946	582	582	582	210	108	1958	503	643	516	265	234	180	474	420	373
20-600-25	1976	592	592	592	210	108	1988	503	643	546	265	234	180	474	420	375
20-630-26	1886	562	562	562	210	108	1897	533	522	546	265	235	180	475	420	393
20-650-27	1916	572	572	572	210	108	1927	533	522	576	265	235	180	475	420	396
20-680-28	1946	582	582	582	210	108	1957	563	522	576	265	235	180	475	420	398
20-710-29	1976	592	592	592	210	108	1987	563	522	606	265	235	180	475	420	401
20-730-30	2006	602	602	602	210	108	2017	593	522	606	265	235	180	475	420	403
20-760-31	2036	612	612	612	254	108	2047	593	522	636	265	235	180	475	420	441
20-790-32	2066	622	622	622	254	108	2077	623	522	636	265	235	180	475	420	444
20-810-33	2096	632	632	632	254	108	2107	623	522	666	265	235	180	475	420	446
20-830-34	2126	642	642	642	254	108	2137	653	522	666	265	235	180	475	420	449
20-860-35	2156	652	652	652	254	108	2167	653	522	696	265	235	180	475	420	452
20-880-36	2186	662	662	662	254	108	2197	683	522	696	265	235	180	475	420	454
20-910-37	2216	672	672	672	254	108	2227	683	522	726	265	235	180	475	420	457
20-930-38	2246	682	682	682	254	108	2257	713	522	726	265	235	180	475	420	460
20-960-39	2276	692	692	692	254	108	2287	713	522	756	265	235	180	475	420	462
20-990-40	2306	702	702	702	254	108	2317	743	522	756	265	235	180	475	420	465

Performance curve



Installation dimensions and weight

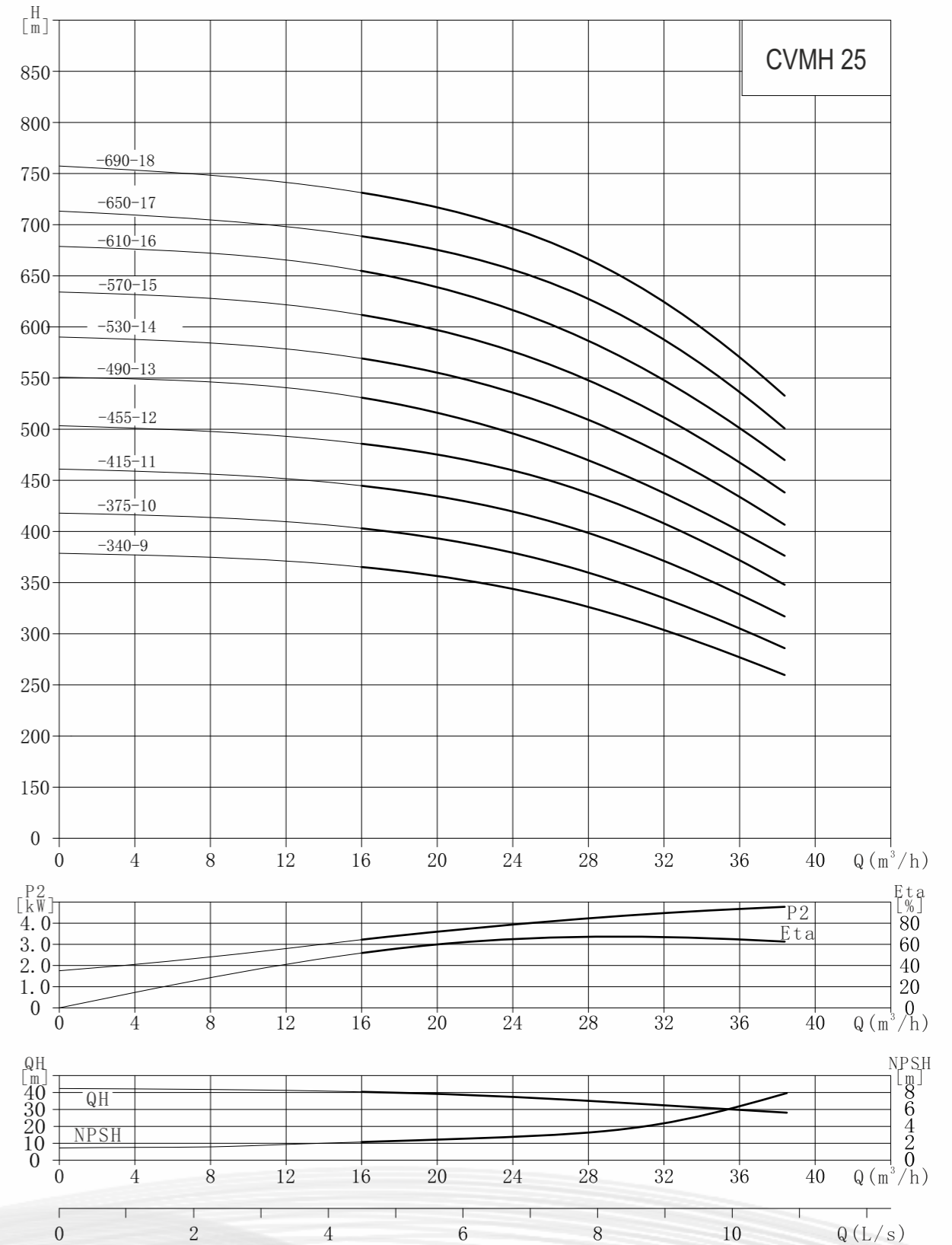


Model	Dimension ( mm )															Weight (kg)
	L1	L2	L3	L4	A1	A2	B	B1	B2	B3	B4	D2	H1	H	H2	
25-340-9	1631	477	477	477	210	108	1643	323	643	381	265	234	180	475	420	350
25-375-10	1556	452	452	452	210	108	1567	368	522	381	265	235	180	475	420	370
25-415-11	1601	467	467	467	210	108	1612	368	522	426	265	235	180	475	420	374
25-455-12	1646	482	482	482	254	108	1657	413	522	426	265	235	180	475	420	413
25-490-13	1691	497	497	497	254	108	1702	413	522	471	265	235	180	475	420	418
25-530-14	1736	512	512	512	254	108	1747	458	522	471	265	235	180	475	420	422
25-570-15	1781	527	527	527	254	108	1792	458	522	516	265	235	180	475	420	427
25-610-16	1826	542	542	542	254	108	1837	503	522	516	265	235	180	475	420	431
25-650-17	1871	557	557	557	254	108	1882	503	522	561	265	235	180	475	420	435
25-690-18	1916	572	572	572	254	108	1927	548	522	561	265	235	180	475	420	440

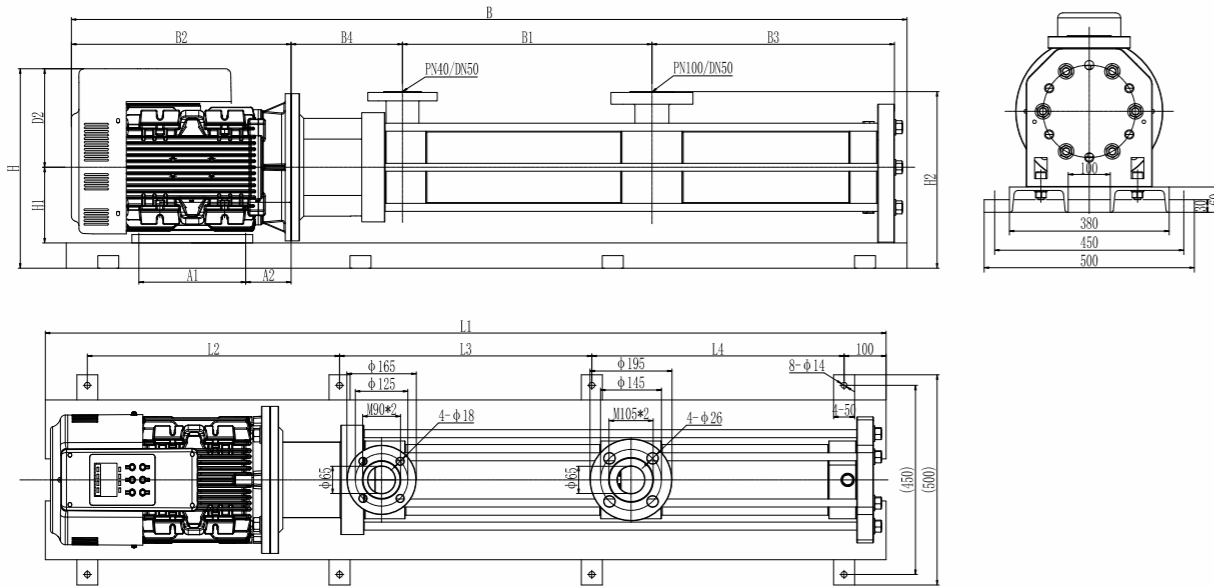
Performance data

Model	Power(kW)	Q (m³/h)	H (m)									
			16	20	24	25	28	32	36	38.4		
25-340-9	45	H (m)	365	356	344	340	326	304	277	260		
25-375-10	55		403	393	379	375	360	335	305	286		
25-415-11	55		445	434	420	415	399	371	338	317		
25-455-12	75		486	475	460	455	437	408	372	348		
25-490-13	75		531	516	496	490	470	438	400	376		
25-530-14	75		569	555	536	530	509	475	434	407		
25-570-15	75		612	597	578	570	548	511	467	438		
25-610-16	90		655	639	617	610	587	548	510	470		
25-650-17	90		689	675	656	650	627	588	536	500		
25-690-18	90		731	717	696	690	666	624	570	533		

Performance curve



Installation dimensions and weight

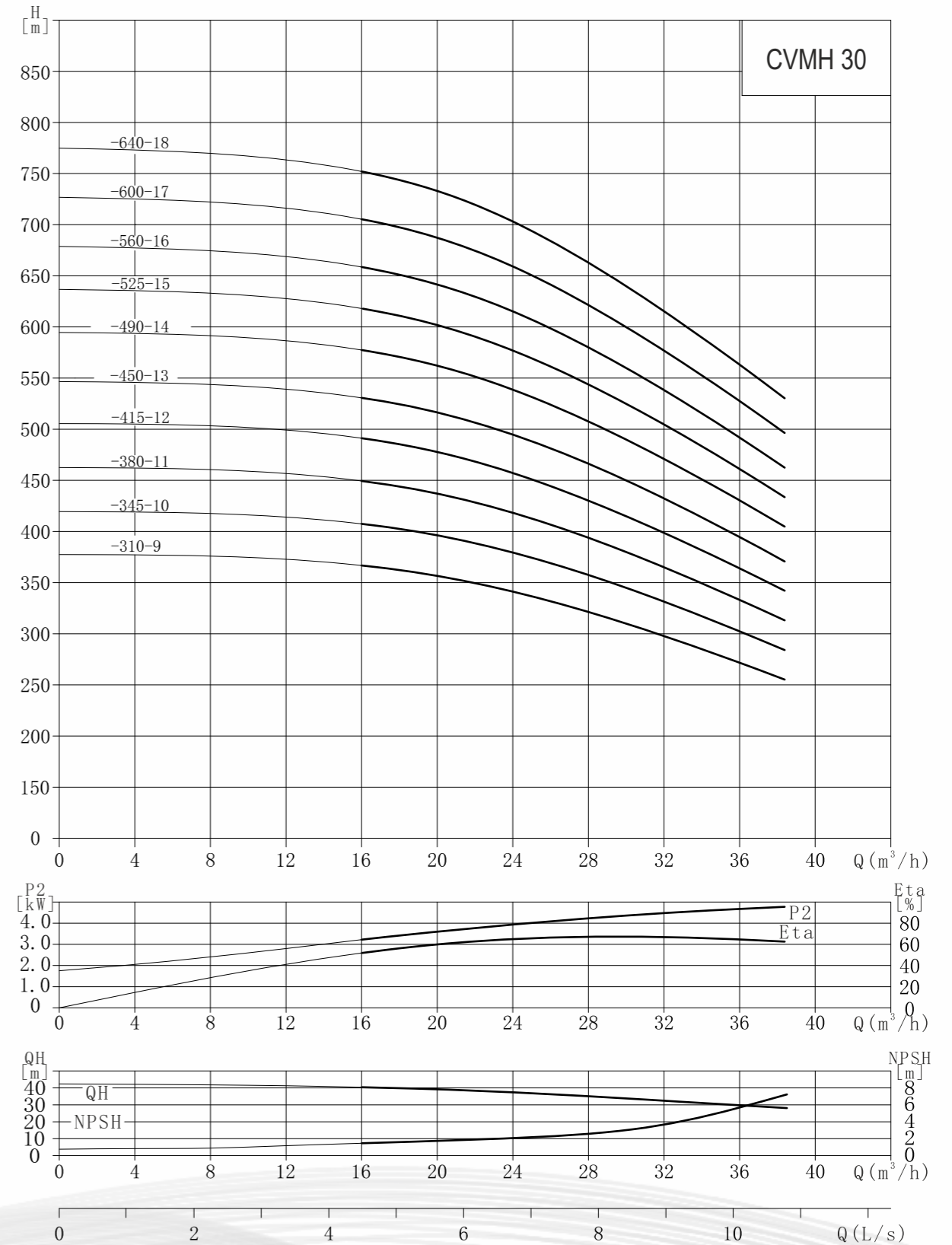


Model	Dimension ( mm )															Weight (kg)
	L1	L2	L3	L4	A1	A2	B	B1	B2	B3	B4	D2	H1	H	H2	
30-310-9	1631	477	477	477	210	108	1643	323	643	381	265	234	180	475	420	350
30-345-10	1556	452	452	452	210	108	1567	368	522	381	265	235	180	475	420	370
30-380-11	1601	467	467	467	210	108	1612	368	522	426	265	235	180	475	420	374
30-415-12	1646	482	482	482	254	108	1657	413	522	426	265	235	180	475	420	413
30-450-13	1691	497	497	497	254	108	1702	413	522	471	265	235	180	475	420	418
30-490-14	1736	512	512	512	254	108	1747	458	522	471	265	235	180	475	420	422
30-525-15	1781	527	527	527	254	108	1792	458	522	516	265	235	180	475	420	427
30-560-16	1826	542	542	542	254	108	1837	503	522	516	265	235	180	475	420	456
30-600-17	1871	557	557	557	254	108	1882	503	522	561	265	235	180	475	420	460
30-640-18	1916	572	572	572	254	108	1927	548	522	561	265	235	180	475	420	465

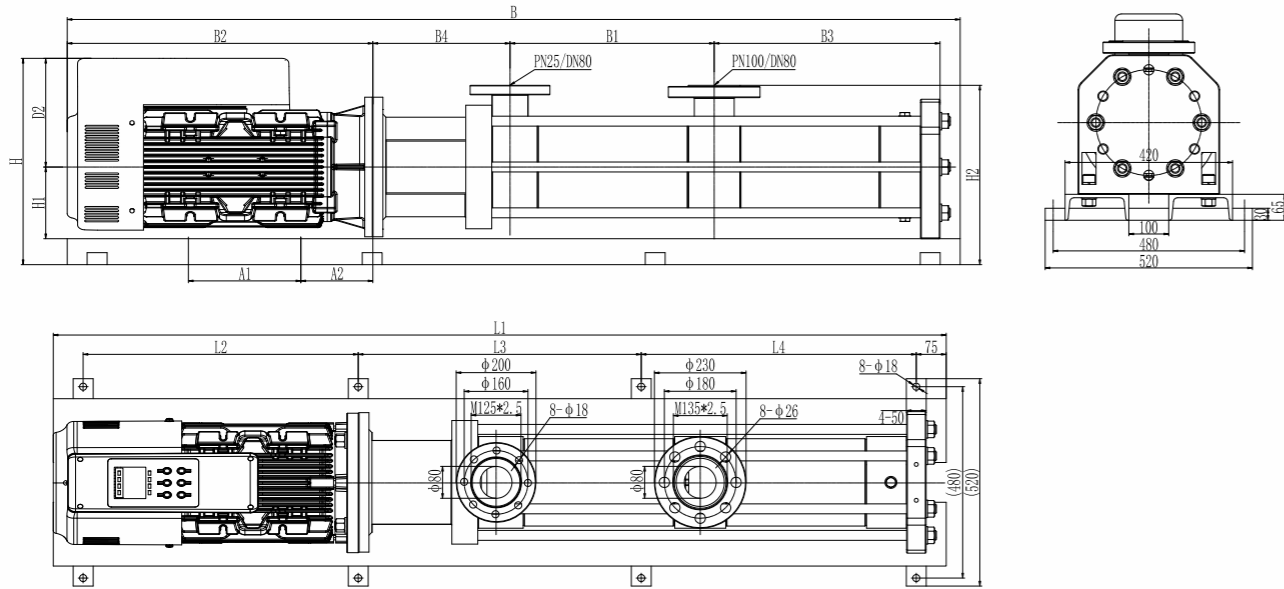
Performance data

Model	Power(kW)	Q (m³/h)	H (m)						
			16	20	25	28	30	32	36
30-310-9	45	367	357	337	321	310	298	272	255
30-345-10	55	407	396	374	357	345	331	302	284
30-380-11	55	449	437	413	394	380	365	333	313
30-415-12	75	491	478	451	430	415	399	364	342
30-450-13	75	531	516	488	466	450	432	395	371
30-490-14	75	577	562	532	508	490	471	430	405
30-525-15	75	618	602	569	544	525	505	461	434
30-560-16	90	659	642	607	579	560	538	492	462
30-600-17	90	705	687	651	621	600	577	528	496
30-640-18	90	752	733	694	663	640	615	563	530

Performance curve



Installation dimensions and weight

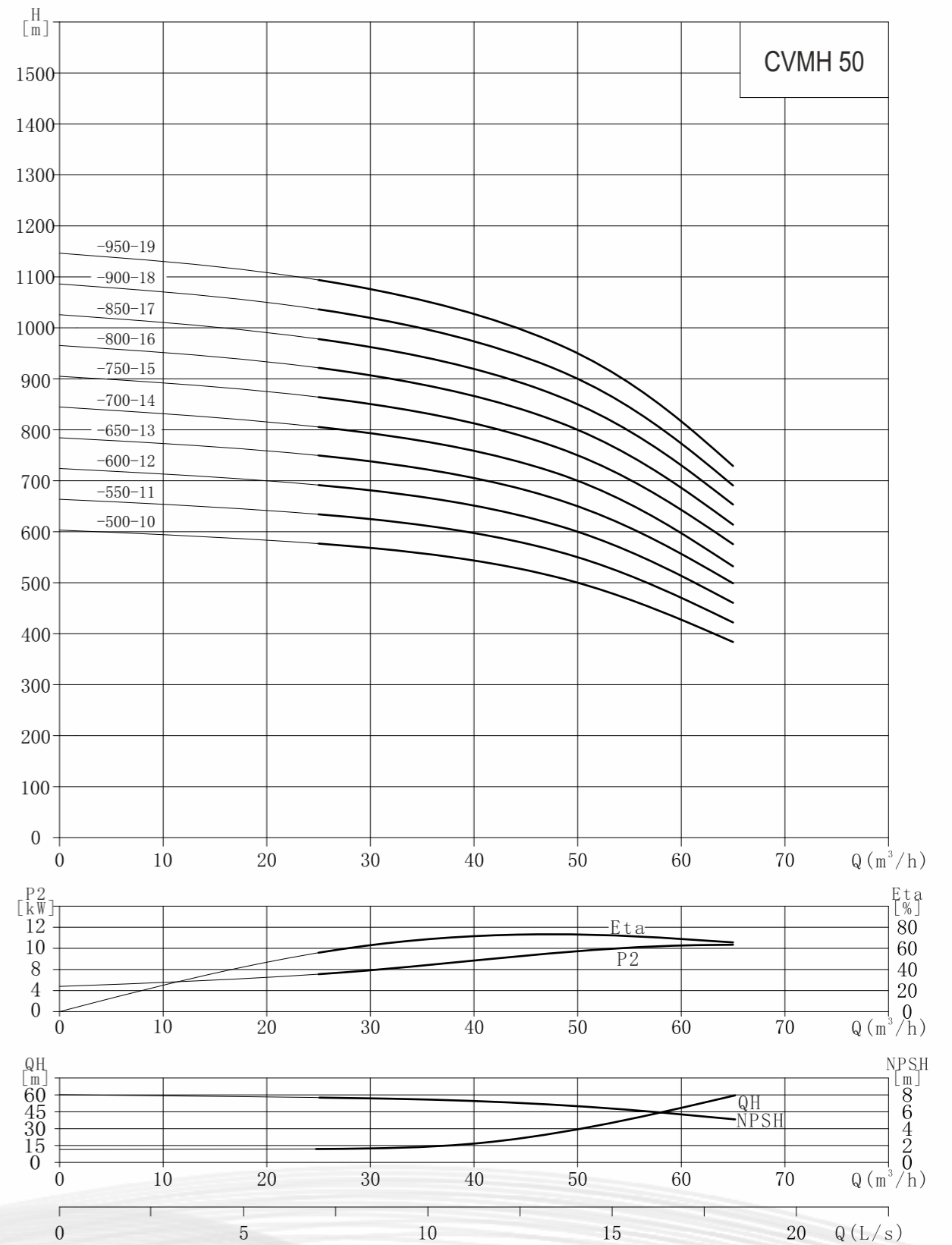


Model	Dimension ( mm )															Weight (kg)
	L1	L2	L3	L4	A1	A2	B	B1	B2	B3	B4	D2	H1	H	H2	
50-500-10	2240	690	710	690	311	149	2252	512	767	566	356	272	180	517	450	627
50-550-11	2310	720	720	720	311	149	2322	512	767	636	356	272	180	517	450	652
50-600-12	2380	740	750	740	311	149	2392	582	767	636	356	272	180	517	450	658
50-650-13	2450	760	780	760	311	149	2462	582	767	706	356	272	180	517	450	678
50-700-14	2520	790	790	790	311	149	2532	652	767	706	356	272	180	517	450	684
50-750-15	2590	810	820	810	311	149	2602	652	767	776	356	272	180	517	450	689
50-800-16	2660	830	850	830	311	149	2672	722	767	776	356	272	180	517	450	715
50-850-17	2730	860	860	860	311	149	2742	722	767	846	356	272	180	517	450	720
50-900-18	2800	880	890	880	311	149	2812	792	767	846	356	272	180	517	450	726
50-950-19	2870	900	920	900	311	149	2958	792	843	916	356	324	180	569	450	766

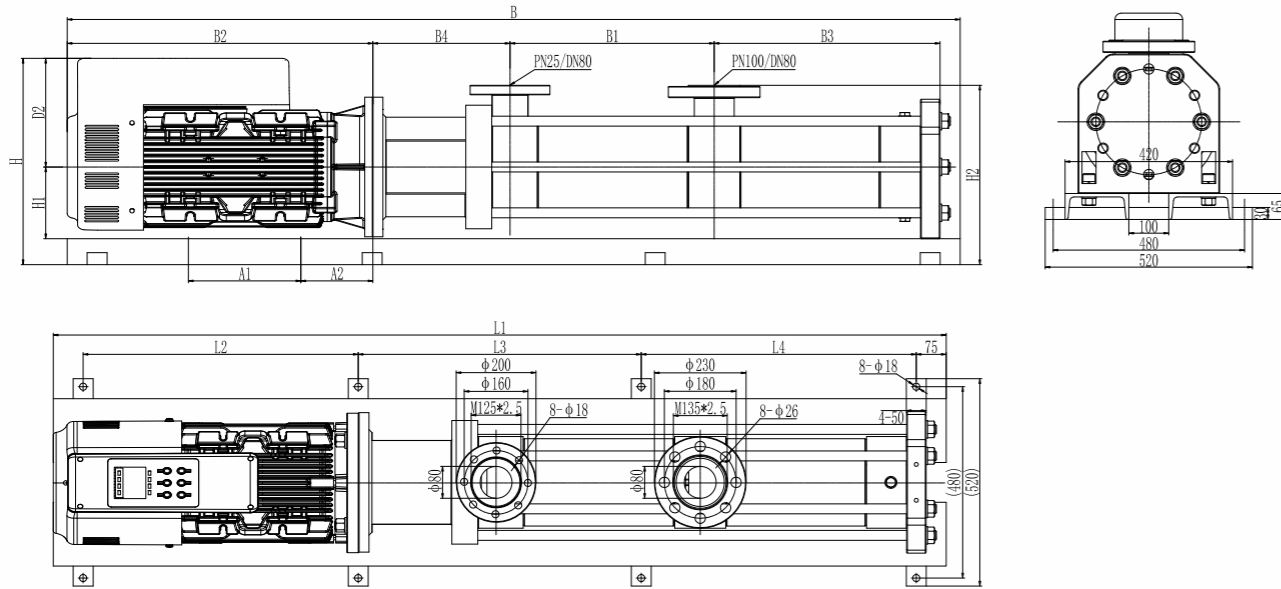
Performance data

Model	Power(kW)	Q (m³/h)	H (m)													
			25	30	35	40	45	50	55	60	65					
50-500-10	110		577	569	558	544	525	500	467	427	384					
50-550-11	132		634	625	614	598	578	550	514	470	422					
50-600-12	132		692	682	669	652	630	600	560	513	460					
50-650-13	160		750	739	725	706	682	650	607	556	499					
50-700-14	160		807	795	780	760	735	700	654	589	537					
50-750-15	160		865	852	835	814	787	750	701	641	576					
50-800-16	185		922	908	890	868	839	800	749	685	614					
50-850-17	185		980	964	946	922	891	850	796	728	652					
50-900-18	185		1037	1021	1001	975	943	900	843	771	691					
50-950-19	200		1094	1077	1056	1029	995	950	890	815	729					

Performance curve



**Installation dimensions and weight**



Model	Dimension ( mm )															Weight (kg)
	L1	L2	L3	L4	A1	A2	B	B1	B2	B3	B4	D2	H1	H	H2	
60-420-6	1980	610	610	610	311	149	2035	401	767	459	356	272	180	517	450	602
60-490-7	2060	630	650	630	311	149	2115	401	767	539	356	272	180	517	450	628
60-560-8	2140	660	670	660	311	149	2195	481	767	539	356	272	180	517	450	649
60-630-9	2220	680	710	680	311	149	2275	481	767	619	356	272	180	517	450	675
60-700-10	2300	710	730	710	311	149	2431	561	843	619	356	324	180	569	450	716

**Performance data**

Model	Power(kW)	Q (m³/h)	30	40	50	60	70	80	90
60-420-6	110	H (m)	455	447	436	420	399	373	344
60-490-7	132		532	523	509	490	465	435	402
60-560-8	160		609	598	582	560	531	497	459
60-630-9	185		683	671	654	630	598	559	516
60-700-10	200		759	745	726	700	665	622	574

**Performance curve**

