



LCS/LCA series multi-stage
centrifugal pumps

FAGGIOLATI®



Fagiolatti National Service Hotline: 400-822-5278

Fagiolatti National Service Hotline: www.faggiolatipump.com

Email: hotline@faggiolatipump.com

This manual is a general statement only and does not provide any type of warranty or guarantee. For further information, please contact FAGGIOLATI.

Serial number: IM006 Rev.1) FAGGIOLATI All rights reserved.

*The contents are subject to change without notice..

FAGGIOLATI®

CONTENT

目录

01// Products

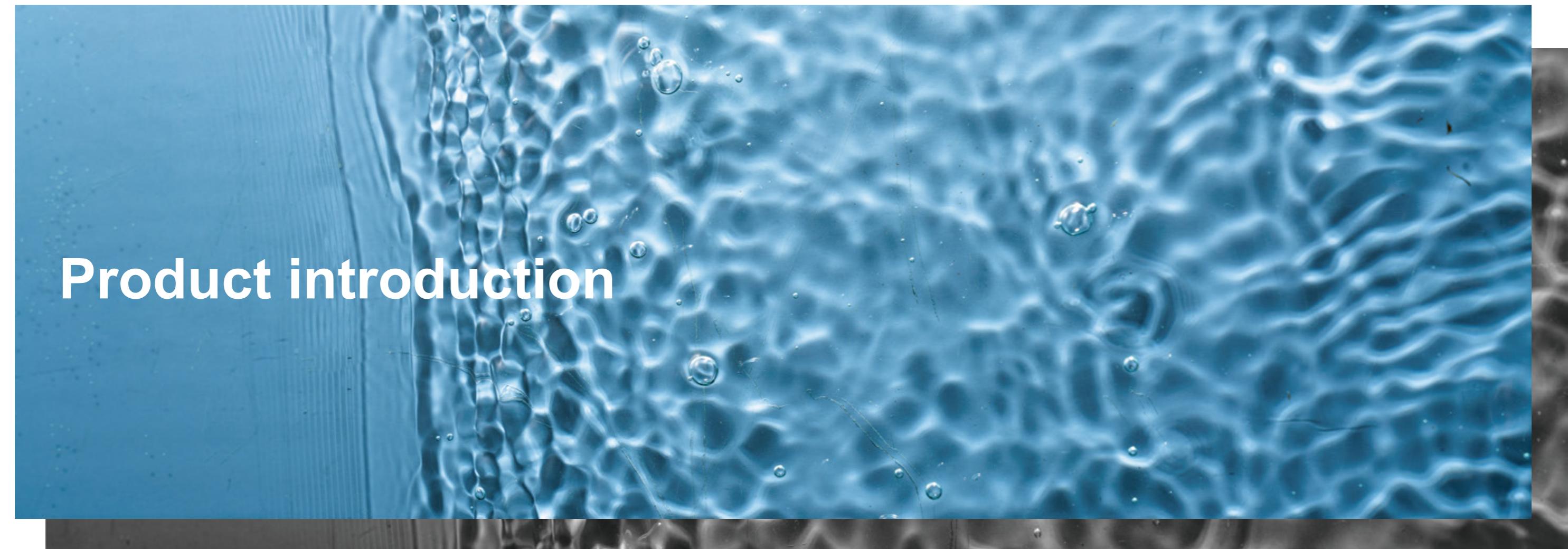
- | | |
|--------------------------------------|------------------------------------|
| 01/ Pump Introduction | 06/ typical application |
| 02/ electrical machinery | 07/ Minimum inlet pressure NPSH |
| 02/ Pump Connection | 08/ Pump fluid temperature |
| 03/ Pump Material | 08/ performance curve |
| 03/ Pump operating conditions | 09/ Model Description |
| 03/ Altitude and ambient temperature | 10/ Product Overview |
| 04/ performance range | 11/ Thrust balancing device |
| 05/ typical application | 12/ Thrust Balancer Material Sheet |

02// Structural drawings/materials

- | | |
|------------------------------|-------------------------------------|
| 13/ LCS/LCA 1,2,3,4,5 | 15/ LCS/LCA 32,45,64,90 |
| 14/ LCS/LCA 8,10,12,15,16,20 | 16/ LCS/LCA 100,130,160,190,220,260 |
-

03// Performance curves/ Installation diagrams/ Dimensions and Weights / Performance Chart

- | | |
|---------------------|----------------------|
| 17/ 50Hz LCS/LCA 1 | 39/ 50Hz LCS/LCA 32 |
| 19/ 50Hz LCS/LCA 2 | 41/ 50Hz LCS/LCA 45 |
| 21/ 50Hz LCS/LCA 3 | 43/ 50Hz LCS/LCA 64 |
| 23/ 50Hz LCS/LCA 4 | 45/ 50Hz LCS/LCA 90 |
| 25/ 50Hz LCS/LCA 5 | 47/ 50Hz LCS/LCA 100 |
| 27/ 50Hz LCS/LCA 8 | 49/ 50Hz LCS/LCA 130 |
| 29/ 50Hz LCS/LCA 10 | 51/ 50Hz LCS/LCA 160 |
| 31/ 50Hz LCS/LCA 12 | 53/ 50Hz LCS/LCA 190 |
| 33/ 50Hz LCS/LCA 15 | 55/ 50Hz LCS/LCA 220 |
| 35/ 50Hz LCS/LCA 16 | 57/ 50Hz LCS/LCA 260 |



Product introduction

Pump Introduction

LCS energy efficient vertical multistage centrifugal pumps are suitable for a variety of high pressure pumping applications. The centrifugal force generated by rotating the pump's impeller drives the rotation of the fluid to complete the transfer of liquid, and the high-efficiency motor and impeller design significantly reduces energy consumption and improves pump efficiency. This series of multistage centrifugal pumps has the advantages of compact structure, small volume, low noise, easy maintenance and so on.

LCS / LCA series as a booster pump can be used alone, can also be used with booster equipment in construction and industrial booster system, its pipeline structure can ensure that the pump is directly installed in the same level in and out of the same pipe diameter of the horizontal piping system, the design makes the pump structure and piping more compact.

LCS/LCA series vertical multistage centrifugal pumps can be installed vertically or horizontally in the pipeline according to the different installation spaces on site. In the case of horizontal installation, the pump requires additional fixing modules to ensure the smoothness of the pump during operation.

Electrical machinery

Squirrel-cage type fully enclosed air-cooled IEC motors, applicable to continuous operation.

Protection grade: IP55

Insulation class: F

Standard voltage: 3x220-240/380-415V 1x220-240V

Single-phase motors from 0.37kW to 2.2kW are available.

Pump Connection

Flange connection

Threaded Connection

Clamp connection

Oval flange connection

Pump Material

Cast Iron
Stainless steel(AISI304 ,AISI316)
Duplex Stainless Steel(2205)

Pump operating conditions

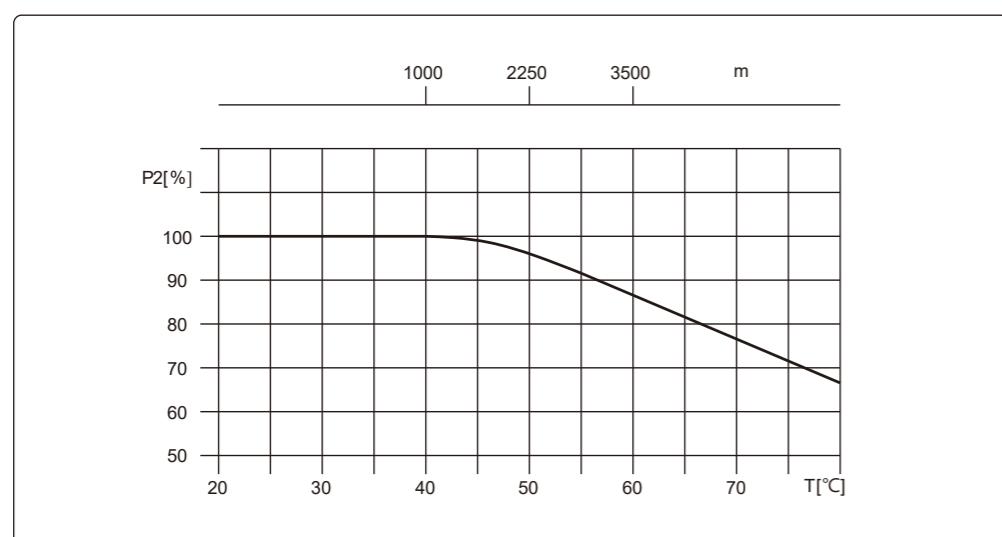
Thin, clean, non-flammable, non-explosive liquids that do not contain particles or fibers (see the end of the catalog for details of the liquids to be conveyed).

Ambient temperature: not more than +40 °C

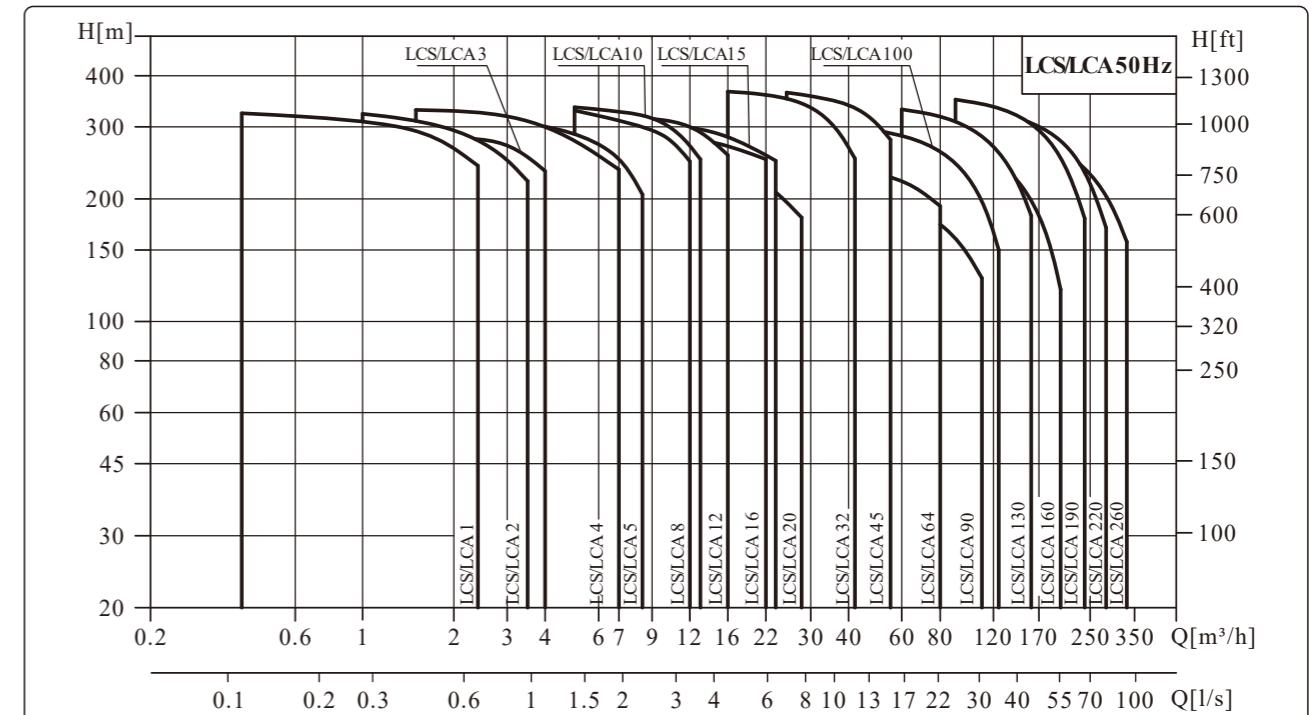
Altitude: not more than 1000m

Altitude and ambient temperature

When the pump is operated at an ambient temperature of more than 40°C or at an altitude of more than 1,000 m, the motor output power P2 will be reduced, and the pump will need to be equipped with a larger motor power in the above cases.



Performance range





Typical application



Water supply

Water Plant Filtration and Conveyance

Water plant zoned delivery

Mains network pressurization

High-rise buildings

Pressurization of hotels, etc.

Pressurization of industrial water supply



Sewage treatment

Ultra Filtration System

Reverse osmosis system

Distillation System

Separators

Swimming pools



Industrial pressurization

Process Water Systems

Cleaning Systems

High Pressure Flushing System

Fire Fighting System

Car washing equipment



Industrial Liquid Transportation

Cooling and air conditioning systems

Boiler feed water

Condensing Systems and Cooling Towers

Machine tool cooling and lubrication packages



Irrigated

Area Irrigation

Sprinkler irrigation

Drip irrigation

Greenhouse



Funnel

Oil and Alcohol

Acids and bases

Glycol and coolants

Minimum inlet pressure NPSH

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

- Water tank or pool is lower than the pump inlet
- Liquid temperature is too high
- The actual flow rate used is significantly greater than the rated flow rate
- The pressure in the pump is lower than the vaporization pressure of the conveyed liquid

To avoid cavitation, ensure a minimum pressure on the inlet side of the pump.

The maximum suction lift H [m] can be calculated as follows:

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

Pb=atmospheric pressure[bar]

(Atmospheric pressure can be set to 1bar)

In a closed system, Pb is the system pressure [bar]

NPSH=net positive nozzle

(Can be read from the NPSH curve at the maximum possible flow rate of the pump)

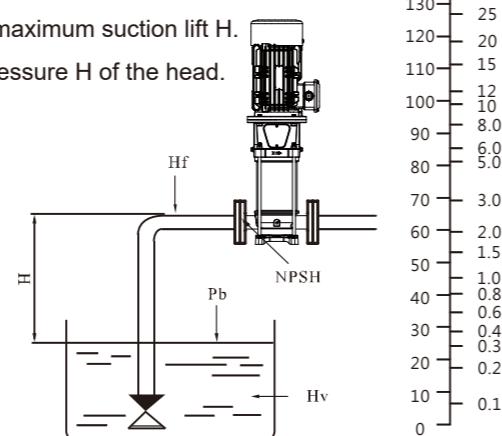
Hf=Inlet piping losses[m]

Hv=vaporization pressure[m]

Hs=Safety margin = minimum 0.5m head

If the calculated H is positive, the pump can be operated at the maximum suction lift H.

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



Pump fluid temperature

Normal temperature pumps: liquid temperature -15 °C to +70 °C

Hot water pumps: liquid temperature -15 °C to +120 °C

Performance curve

All curves are based on motor measurements at a constant speed of 2900rpm or 2950rpm .

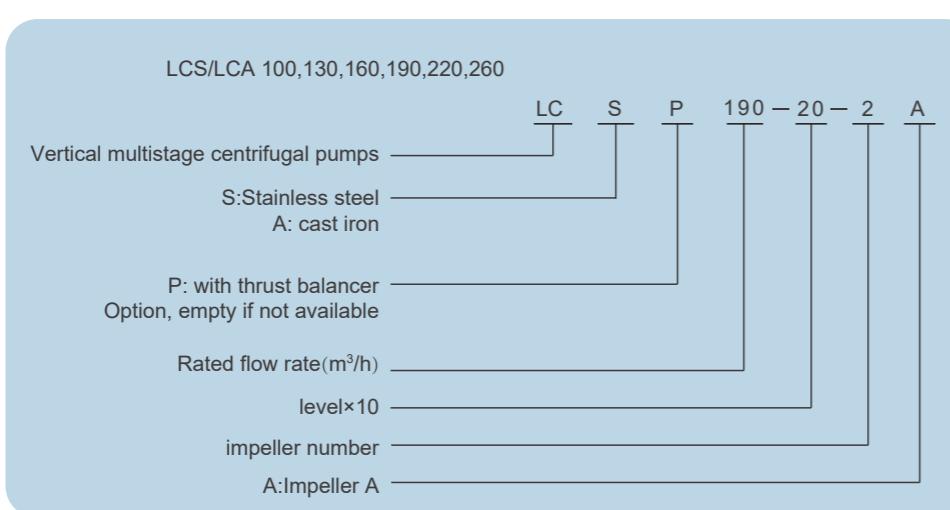
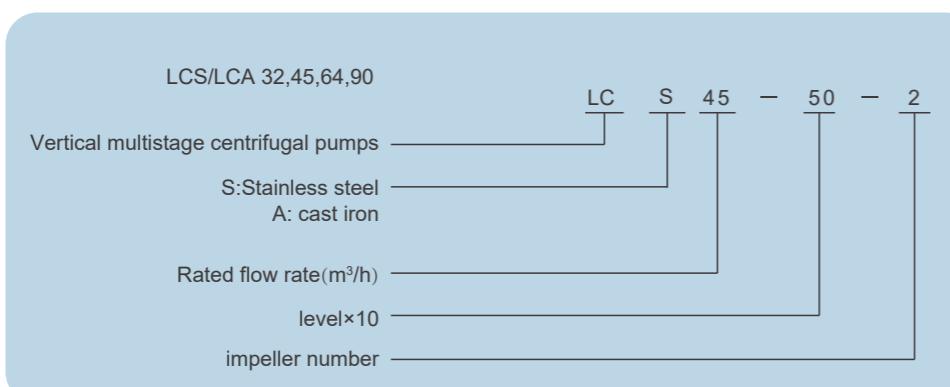
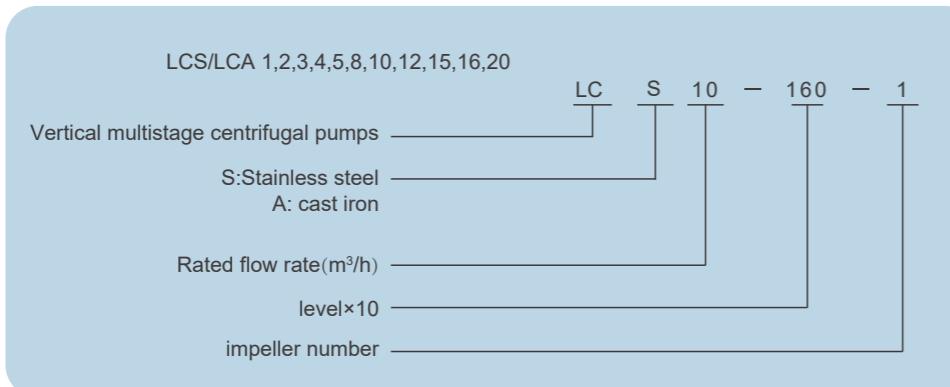
Curve tolerances are in accordance with ISO 9906.

The test is carried out with water at 20°C without air and with a kinematic viscosity of 1 mm²/s. The test is carried out with water at 20°C with no air.

The pump should be used in accordance with the performance ranges in the bold line to prevent overheating at too low a flow rate or overloading the motor at too high a flow rate.



Model Description



Product Overview

Main parameters	LCS/LCA1	LCS/LCA2	LCS/LCA3	LCS/LCA4	LCS/LCA5	LCS/LCA8	LCS/LCA10	LCS/LCA12	LCS/LCA15	LCS/LCA16	LCS/LCA20
Rated flow rate [m ³ /h]	1	2	3	4	5	8	10	12	15	16	20
Rated flow rate [l/s]	0.28	0.56	0.83	1.1	1.39	2.2	2.78	3.3	4.17	4.4	5.6
Flow rate range [m ³ /h]	0.4~2.4	1~3.5	1.2~4	1.5~6	2.5~8.5	5~12	5~13	7~16	8~23	8~22	10~28
Flow rate range [l/s]	0.11~0.66	0.28~0.97	0.33~1.1	0.42~1.63	0.69~2.36	1.39~3.3	1.39~3.61	1.9~4.4	2.22~6.39	2.2~6.1	2.8~7.8
Maximum pressure [bar]	33	33	30	33	32	33	34	32	31	29	25
Motor power [kW]	0.37~3	0.37~5.5	0.37~5.5	0.55~7.5	0.37~7.5	0.75~15	0.75~15	1.5~18.5	1.1~22	2.2~22	1.1~22
Temperature range [C]									-15~120		
Maximum efficiency [%]	48	52	57	57	66	62	68	63	68	66	68

LCS piping connections

DIN Flangeless	DN25	DN25	DN25	DN32	DN32	DN40	DN40	DN50	DN50	DN50	DN50
Pipe thread	R ₁ 1/4"	R ₁ 2"									
Ferrule street	DN32	DN32	DN32	DN32	DN32	DN50	DN50	DN50	DN50	DN50	DN50

LCA piping connections

DIN Flangeless	DN25	DN25	DN25	DN32	DN32	DN40	DN40	DN50	DN50	DN50	DN50
Oval flange	R _p 1	R _p 1	R _p 1	R _p 1 1/4	R _p 1 1/4	R _p 1 1/2					

Note: Maximum operating pressure with oval flange connection is 16 bar.

Main parameters	LCS/LCA32	LCS/LCA32	LCS/LCA64	LCS/LCA90	LCS/LCA100	LCS/LCA130	LCS/LCA160	LCS/LCA190	LCS/LCA220	LCS/LCA260
Rated flow rate [m ³ /h]	32	45	64	90	100	130	160	190	220	260
Rated flow rate [l/s]	8.9	12.5	17.8	25	27.78	36.11	44.44	52.78	61.11	72.22
Flow rate range [m ³ /h]	16~42	25~55	30~80	50~110	50~125	60~160	80~200	90~240	105~282	125~330
Flow rate range [l/s]	4.4~11	6.9~15.3	8~22	14~30	14~34.7	16.7~44.4	22.2~55.6	25~66.7	29.2~78.3	34.7~91.7
Maximum pressure [bar]	37	37	25	22	31	34	28	34	34	29
Motor power [kW]	2.2~45	4~55	4~55	7.5~55	5.5~75	11~110	11~110	18.5~200	22~200	30~200
Temperature range [C]								-15~120		
Maximum efficiency [%]	75	75	75	76	79	80	80	82	83	84

Pipe Connections

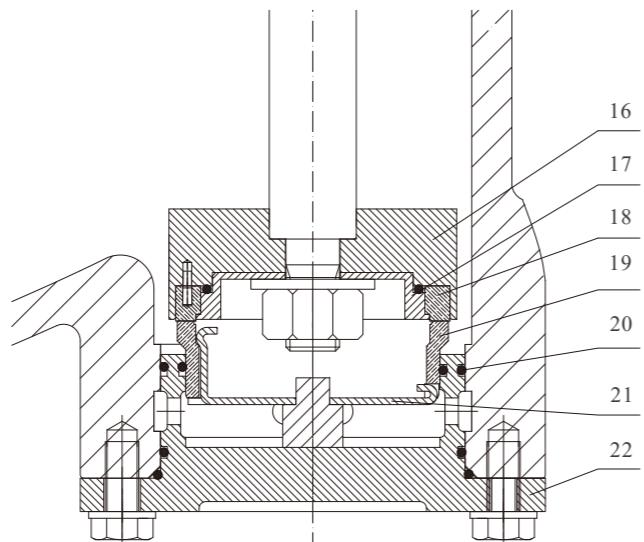
DIN Flangeless	DN65	DN80	DN100	DN100	DN100	DN150	DN150	DN200	DN200	DN200
----------------	------	------	-------	-------	-------	-------	-------	-------	-------	-------

Thrust balancing device

Summarize

In order to balance most of the axial forces generated by the hydraulic rotating parts and to reduce the axial loads to be borne by the motor bearings, we have configured the thrust balancing device (LCSP/LCAP) in the LCS/LCA100/130/160/190/220/260 series, and with a power of 55kW and above, in order to enhance the stability and service life of the pumps.

The LCSP/LCAP thrust balancing device is optional and consists of two parts, a non-rotating part mounted in or on the base of the pump and a rotating part mounted on the end of the shaft below the first impeller. The thrust balancing device absorbs most of the thrust generated by the impeller, thereby reducing the axial force required on the motor bearings.

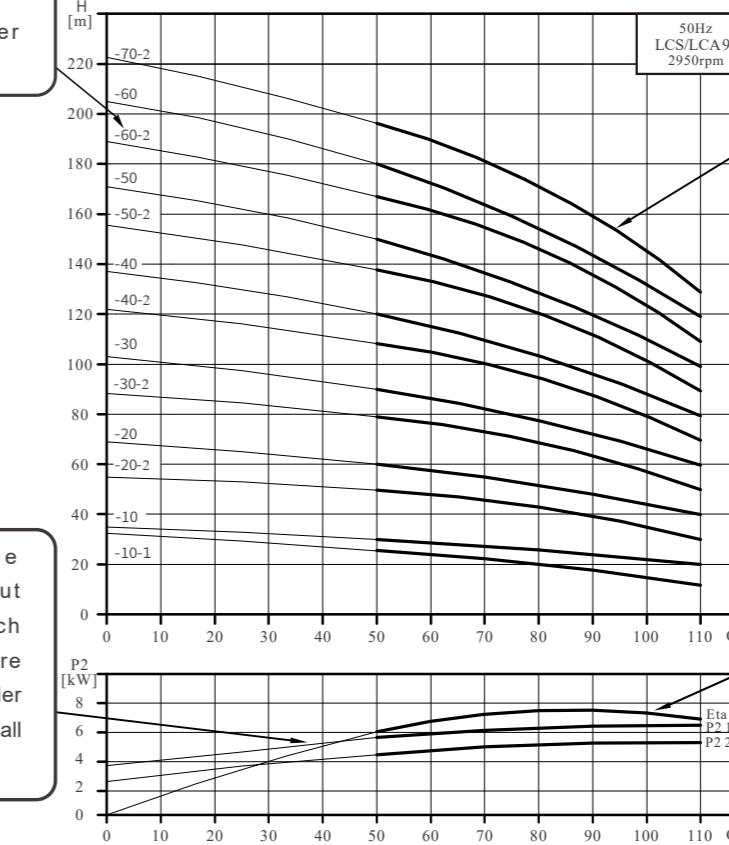


Thrust Balancer Material Sheet

No.	Parts	Material	GB	EN DIN	AISI/ASTM
16	Ferrule	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304
17	Dynamic ring gland	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304
18	Rotating ring	Tungsten carbide	/	/	/
19	Stationary ring	Tungsten carbide	/	/	/
20	Seals	Fluoroelastomer	/	/	/
21	Suspension Bracket	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304
22	Static ring seat	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304

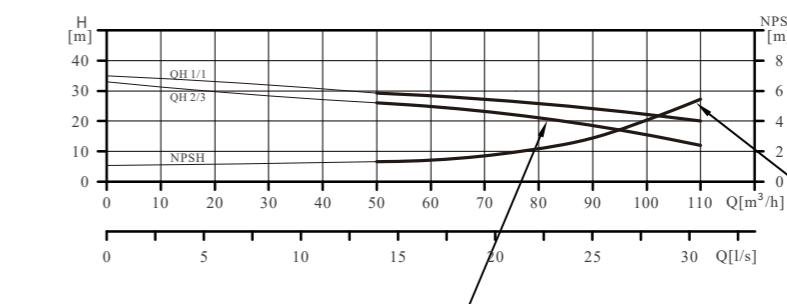
Explanation of performance curve reading

Number of levels
First digit.
Number of levels x 10
Second number.
Number of impeller wheels



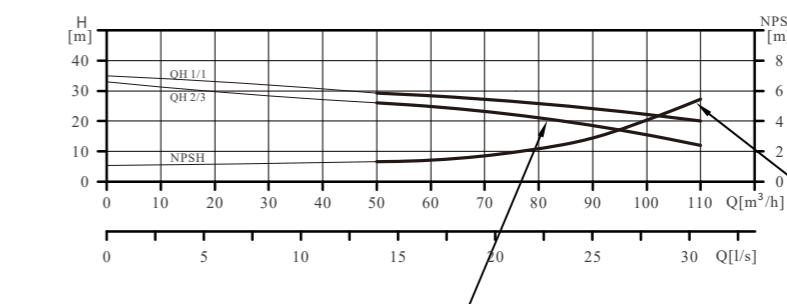
Q-H curve, thick line is recommended performance range

The power curve represents the input power curve of each stage. The curves are available in full impeller type (1/1) and with small impeller type (2/3).



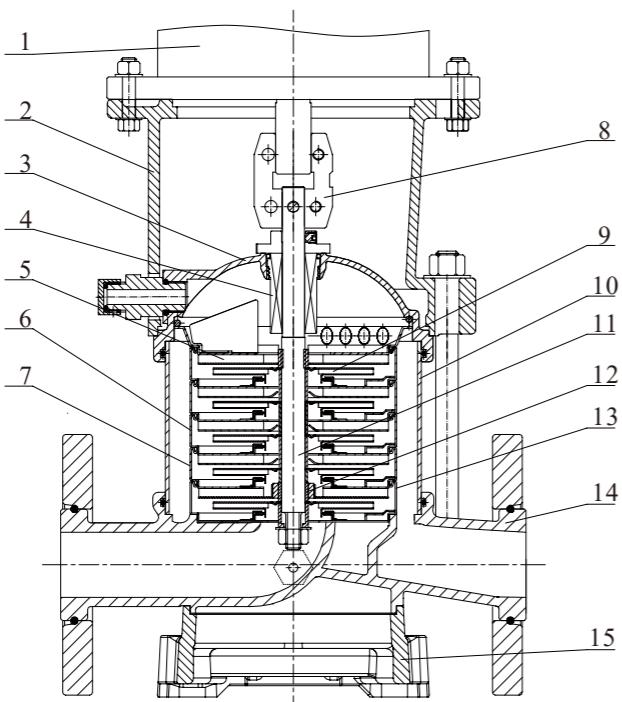
The Eta curve is the efficiency curve of the pump, and the efficiency of a pump with a small impeller is about 2% lower than that shown in the figure.

Q-H curves for each impeller stage, complete impeller type (1/1) and type with small impeller (2/3) are shown.



The NPSH curve is the average of all curves in the series. A safety margin of at least 0.5m should be added to the selection.

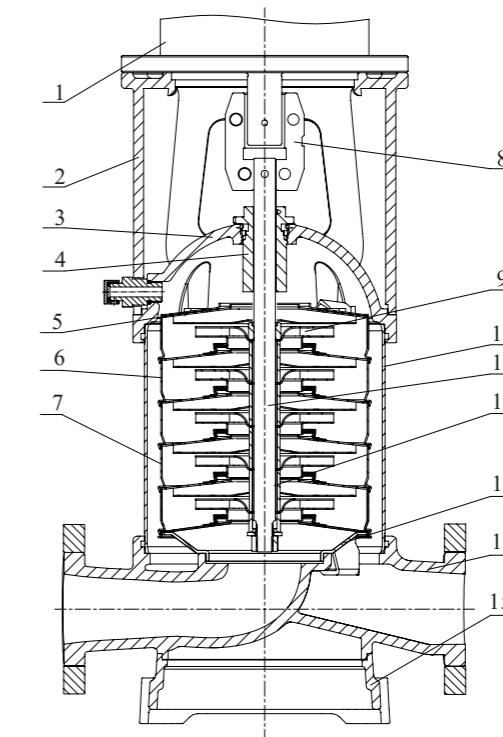
Structure plan LCS/LCA1,2,3,4,5



Structure plan LCS/LCA1,2,3,4,5

No.	Parts	Materials		GB		EN DIN		AISI/ASTM	
		LCA	LCS	LCA	LCS	LCA	LCS	LCA	LCS
1	Electrical machinery	/	/	/	/	/	/	/	/
2	Brackets	ductile iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTMA536 65-45-12				
3	Seal Seat	Ductile Iron /Stainless steel	GB 1348-QT500-7/ GB/T20878-06Cr19Ni10	EN 1563 EN-GJS-500-7/ EN 10088-1.4301	ASTMA536 65-45-12/ AISI304				
4	Mechanical seal	/	/	/	/	/	/	/	/
5	Outlet vane	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
6	Guide vane	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
7	Support vane	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
8	Coupling pump	Ductile iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTMA536 65-45-12				
9	Impellers	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
10	Cylinders	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
11	Pump shaft	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
12	Bear	Silicon Carbide /Tungsten Carbide	/	/	/				
13	Inlet vane	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
14	Entering and exiting water bodies	Ductile Iron /Stainless steel	GB 1348-QT500-7/ GB/T20878-06Cr19Ni10	EN 1563 EN-GJS-500-7/ EN 10088-1.4301	ASTMA536 65-45-12/ AISI304				
15	Foundation	Ductile iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTMA536 65-45-12				

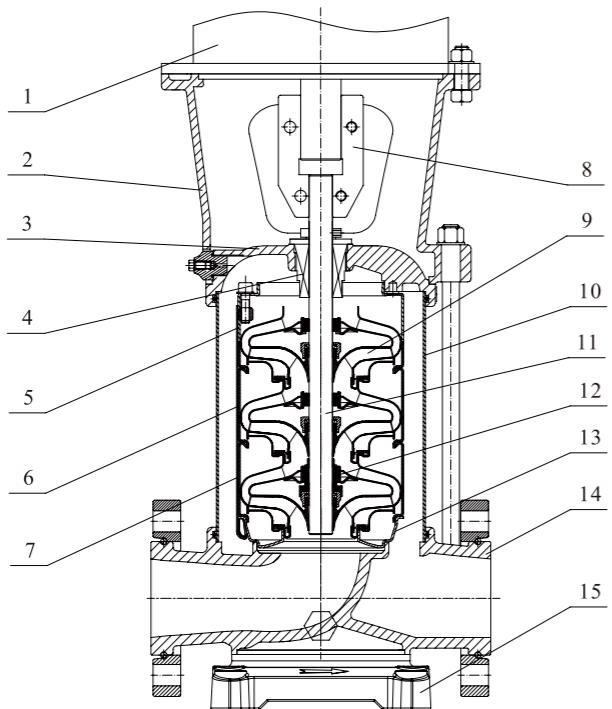
Structure plan LCS/LCA 8,10,12,15,16,20



Structure plan LCS/LCA 8,10,12,15,16,20

No.	Parts	Materials		GB		EN DIN		AISI/ASTM	
		LCA	LCS	LCA	LCS	LCA	LCS	LCA	LCS
1	Electrical machinery	/	/	/	/	/	/	/	/
2	Brackets	ductile iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTMA536 65-45-12				
3	Seal Seat	Ductile Iron /Stainless steel	GB 1348-QT500-7/ GB/T20878-06Cr19Ni10	EN 1563 EN-GJS-500-7/ EN 10088-1.4301	ASTMA536 65-45-12/ AISI304				
4	Mechanical seal	/	/	/	/	/	/	/	/
5	Outlet vane	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
6	Guide vane	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
7	Support vane	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
8	Coupling pump	Ductile iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTMA536 65-45-12				
9	Impellers	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
10	Cylinders	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
11	Pump shaft	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
12	Bear	Silicon Carbide /Tungsten Carbide	/	/	/				
13	Inlet vane	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
14	Entering and exiting water bodies	Ductile Iron /Stainless steel	GB 1348-QT500-7/ GB/T20878-06Cr19Ni10	EN 1563 EN-GJS-500-7/ EN 10088-1.4301	ASTMA536 65-45-12/ AISI304				
15	Foundation	Ductile iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTMA536 65-45-12				

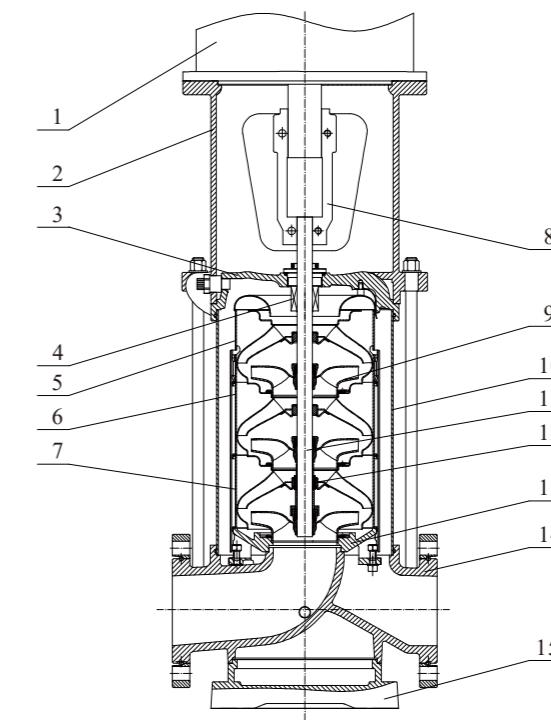
Structure plan LCS/LCA 32,45,64,90



Structure plan LCS/LCA 32,45,64,90

No.	Parts	Materials		GB		EN DIN		AISI/ASTM	
		LCA	LCS	LCA	LCS	LCA	LCS	LCA	LCS
1	Electrical machinery	/	/	/	/	/	/	/	/
2	Brackets	ductile iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTMA536 65-45-12				
3	Seal Seat	Ductile Iron /Stainless steel	GB 1348-QT500-7/ GB/T20878-06Cr19Ni10	EN 1563 EN-GJS-500-7/ EN 10088-1.4301	ASTMA536 65-45-12/ AISI304				
4	Mechanical seal	/	/	/	/	/	/	/	/
5	Outlet vane	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
6	Guide vane	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
7	Support vane	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
8	Coupling pump	Ductile iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTMA536 65-45-12				
9	Impellers	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
10	Cylinders	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
11	Pump shaft	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
12	Bear	Silicon Carbide /Tungsten Carbide	/	/	/				
13	Inlet vane	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
14	Entering and exiting water bodies	Ductile Iron /Stainless steel	GB 1348-QT500-7/ GB/T20878-06Cr19Ni10	EN 1563 EN-GJS-500-7/ EN 10088-1.4301	ASTMA536 65-45-12/ AISI304				
15	Foundation	Ductile iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTMA536 65-45-12				

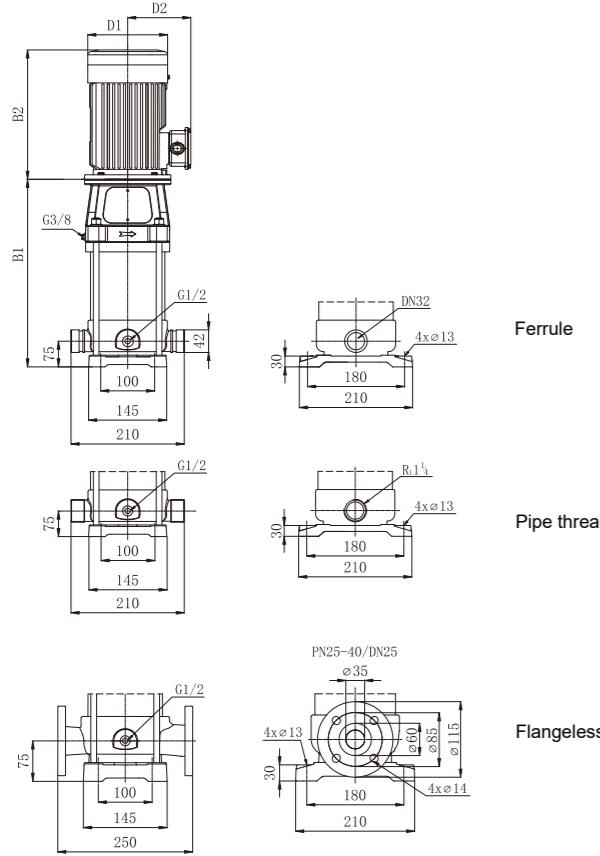
Structure plan LCS/LCA 100,130,160,190,220,260



Structure plan LCS/LCA 100,130,160,190,220,260

No.	Parts	Materials		GB		EN DIN		AISI/ASTM	
		LCA	LCS	LCA	LCS	LCA	LCS	LCA	LCS
1	Electrical machinery	/	/	/	/	/	/	/	/
2	Brackets	ductile iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTMA536 65-45-12				
3	Seal Seat	Ductile Iron /Stainless steel	GB 1348-QT500-7/ GB/T20878-06Cr19Ni10	EN 1563 EN-GJS-500-7/ EN 10088-1.4301	ASTMA536 65-45-12/ AISI304				
4	Mechanical seal	/	/	/	/	/	/	/	/
5	Outlet vane	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
6	Guide vane	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
7	Support vane	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
8	Coupling pump	Ductile iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTMA536 65-45-12				
9	Impellers	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
10	Cylinders	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
11	Pump shaft	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
12	Bear	Silicon Carbide /Tungsten Carbide	/	/	/				
13	Inlet vane	Stainless steels	GB/T20878-06Cr19Ni10	EN 10088-1.4301	AISI304				
14	Entering and exiting water bodies	Ductile Iron /Stainless steel	GB 1348-QT500-7/ GB/T20878-06Cr19Ni10	EN 1563 EN-GJS-500-7/ EN 10088-1.4301	ASTMA536 65-45-12/ AISI304				
15	Foundation	Ductile iron	GB 1348-QT500-7	EN 1563 EN-GJS-500-7	ASTMA536 65-45-12				

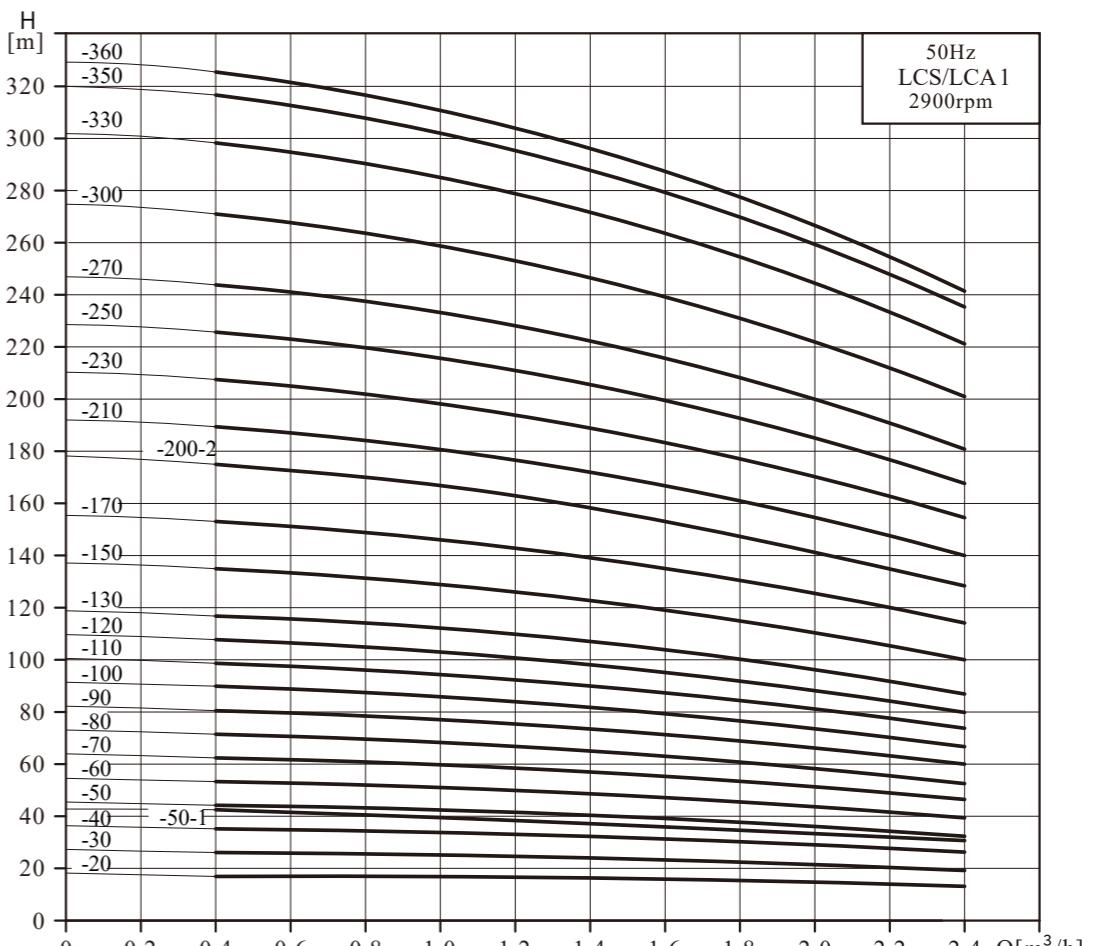
Installation dimensions and product weight



Model number	Sizes (mm)					Weights (kg)
	B1	B2	B1+B2	D1	D2	
LCS 1-20	262	240	502	148	117	23
LCS 1-30	280	240	520	148	117	23
LCS 1-40	298	240	538	148	117	24
LCS 1-50-1	316	240	556	148	117	25
LCS 1-50	316	240	556	148	117	25
LCS 1-60	334	240	574	148	117	26
LCS 1-70	352	240	592	148	117	27
LCS 1-80	380	280	660	170	142	36
LCS 1-90	398	280	678	170	142	37
LCS 1-100	416	280	696	170	142	38
LCS 1-110	434	280	714	170	142	40
LCS 1-120	452	280	732	170	142	41
LCS 1-130	470	280	750	170	142	42
LCS 1-150	506	280	786	170	142	43
LCS 1-170	552	350	902	190	155	51
LCS 1-200-2	606	350	956	190	155	53
LCS 1-210	624	350	974	190	155	58
LCS 1-230	660	350	1010	190	155	59
LCS 1-250	696	350	1046	190	155	61
LCS 1-270	732	350	1082	190	155	62
LCS 1-300	786	350	1136	190	155	64
LCS 1-330	850	410	1260	196	165	73
LCS 1-350	886	410	1296	196	165	74
LCS 1-360	904	410	1314	196	165	75

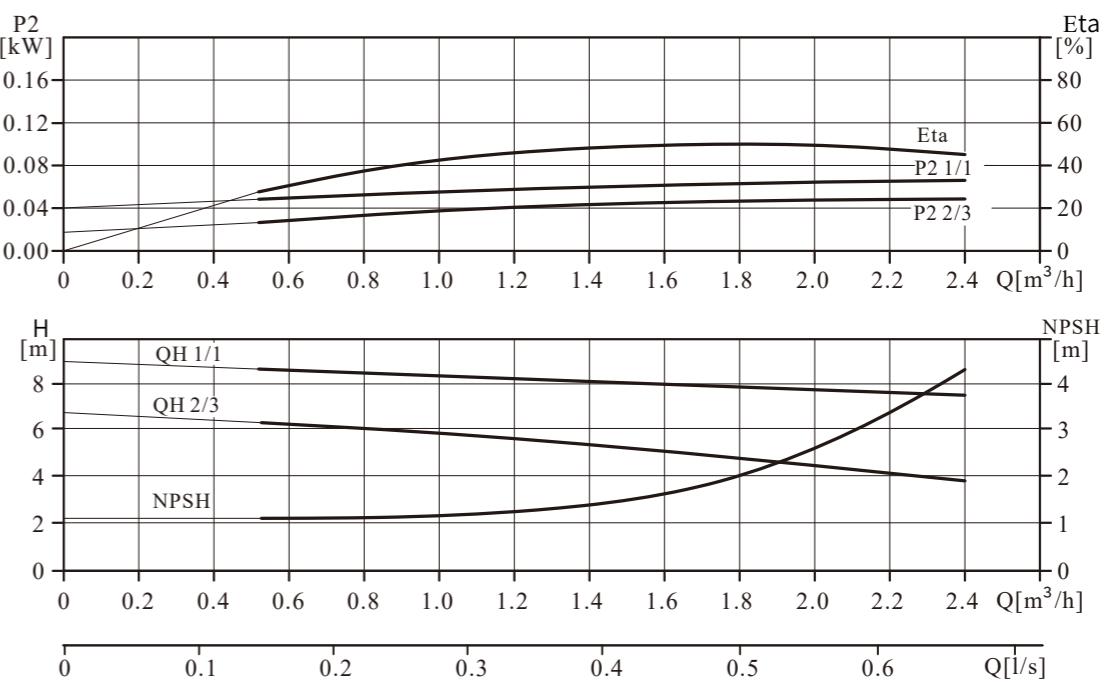
Note: LCA is 1.5kg heavier than LCS in the same specification.

Performance curve

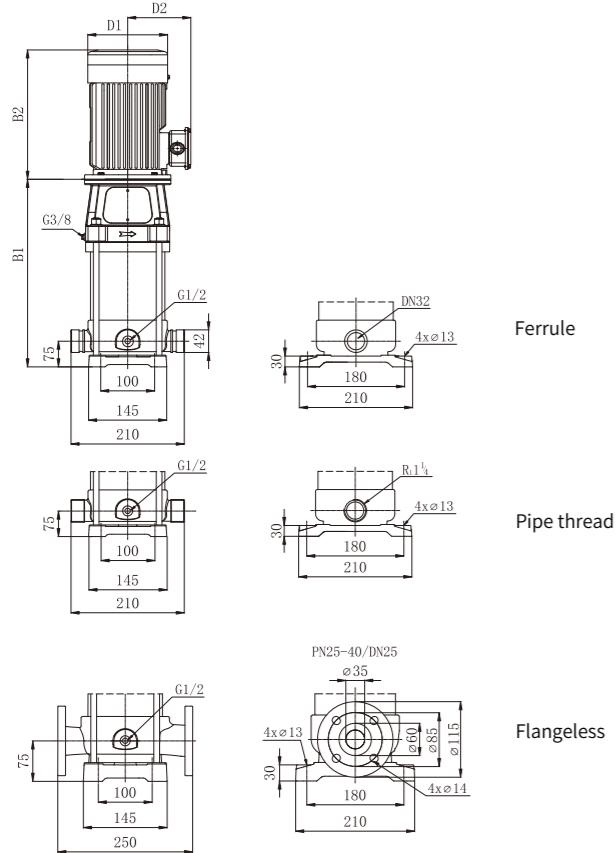


Operational performance data

Model number	Matching motor (kW)	Q (m³/h)	H (m)											
			0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2	2.2	2.4	
LCS 1-20	0.37	18	17.7	17.4	17	16.8	16.5	16	15.5	15	14	13		
LCS 1-30	0.37	27	26.7	26.4	26	25	24.5	24	23	22	21	20		
LCS 1-40	0.37	36	35.5	35	34	33.5	33	32	31	30	28	27		
LCS 1-50-1	0.37	43	42	41	39.5	39	38	37	36	34	33	31		
LCS 1-50	0.55	45	44.5	44	43	42	41	40	38.5	37	35	33.5		
LCS 1-60	0.55	54	53.5	53	51	50	49	48	46	44	42	40		
LCS 1-70	0.55	63	62.5	61.5	60	59	58	56	54	52	50	47		
LCS 1-80	0.75	72	71.5	70	69	67	66	64	62	59	57	54		
LCS 1-90	0.75	81	80	79	77	76	74	72	69	67	64	60		
LCS 1-100	0.75	90	89	88	86	84	82	80	77	74	71	67		
LCS 1-110	1.1	99	98	97	94	93	90	88	85	81	78	74		
LCS 1-120	1.1	108	107	105	103	101	99	96	93	89	85	80		
LCS 1-130	1.1	117	116	114	111	110	107	104	100	96	92	87		
LCS 1-150	1.1	135	134	132	129	126	123	120	116	111	106	100		
LCS 1-170	1.5	153	151.5	150	146	143	140	135	131	126	120	114		
LCS 1-200-2	1.5	175	173	170	167	163	158	153	148	142	136	128		
LCS 1-210	2.2	189	187.5	185	180	177	173	167	162	155	149	141		
LCS 1-230	2.2	207	205	202	197	194	189	183	177	170	163	154		
LCS 1-250	2.2	225	223	220	214	211	206	199	193	185	177	167		
LCS 1-270	2.2	243	241	238	231	227	222	215	208	200	191	181		
LCS 1-300	2.2	270	268	264	257	253	247	239	231	222	212	201		
LCS 1-330	3	297	295	290	283	278	271	263	255	244	234	221		
LCS 1-350	3	315	312	308	300	295	288	279	270	259	248	234		
LCS 1-360	3	324	321	317	309	303	296	287	278	266	255	241		



Installation dimensions and product weight



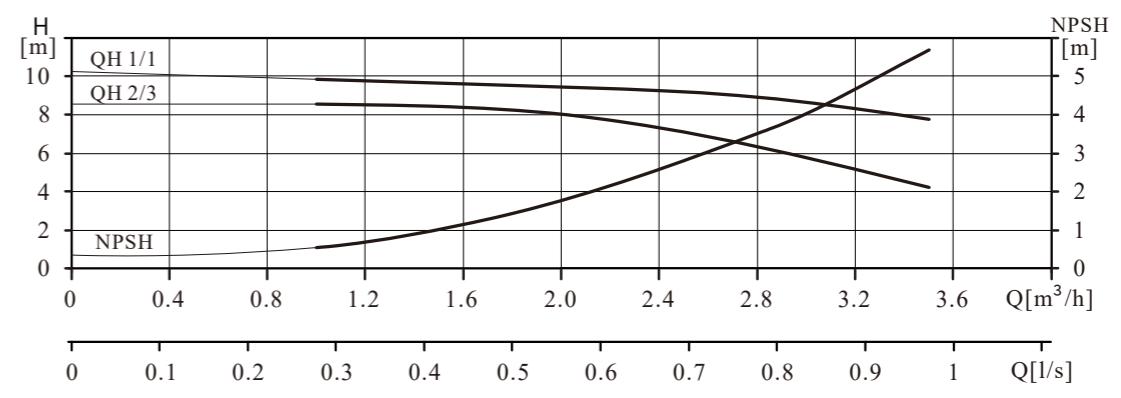
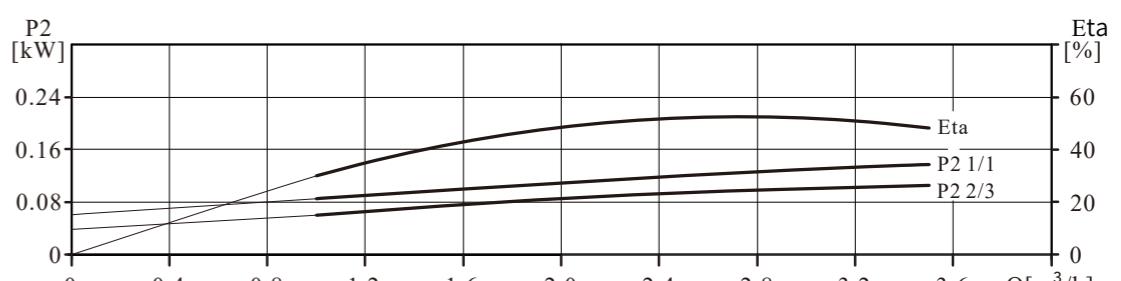
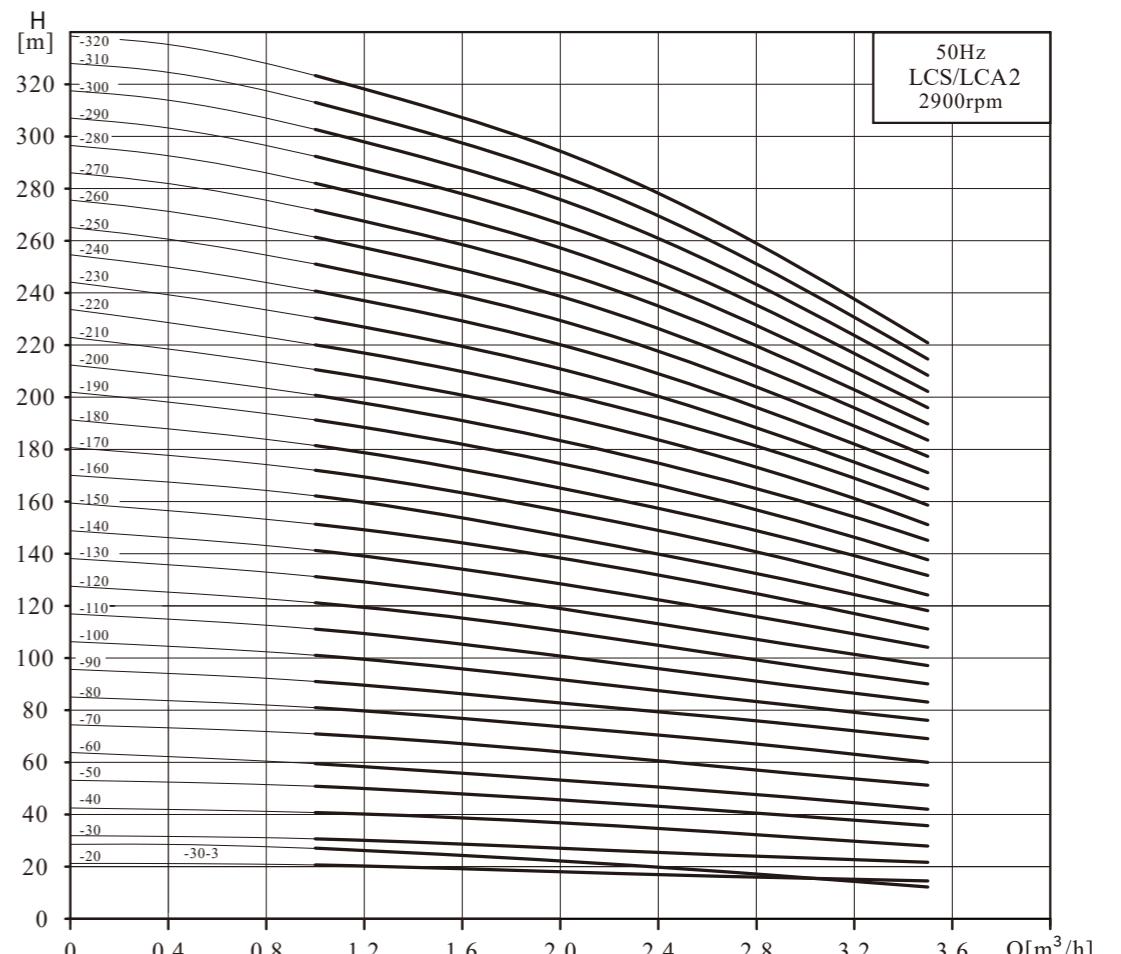
Model number	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
LCS 2-20	262	240	502	148	117	23
LCS 2-30-3	280	240	520	148	117	23
LCS 2-30	280	240	520	148	117	25
LCS 2-40	298	240	538	148	117	25
LCS 2-50	326	280	606	170	142	35
LCS 2-60	344	280	624	170	142	35
LCS 2-70	362	280	642	170	142	38
LCS 2-80	380	280	660	170	142	39
LCS 2-90	398	280	678	170	142	39
LCS 2-100	426	350	776	190	155	47
LCS 2-110	444	350	794	190	155	47
LCS 2-120	462	350	812	190	155	48
LCS 2-130	480	350	830	190	155	53
LCS 2-140	498	350	848	190	155	53
LCS 2-150	516	350	866	190	155	54
LCS 2-160	534	350	884	190	155	55
LCS 2-170	552	350	902	190	155	55
LCS 2-180	570	350	920	190	155	56
LCS 2-190	598	410	1008	196	165	63
LCS 2-200	616	410	1026	196	165	64
LCS 2-210	634	410	1044	196	165	65
LCS 2-220	652	410	1062	196	165	65
LCS 2-230	670	410	1080	196	165	66
LCS 2-240	688	410	1098	230	185	76
LCS 2-250	706	410	1116	230	185	76
LCS 2-260	724	410	1134	230	185	77
LCS 2-270	742	410	1152	230	185	78
LCS 2-280	760	410	1170	230	185	79
LCS 2-290	778	410	1188	230	185	79
LCS 2-300	796	410	1206	230	185	80
LCS 2-310	834	465	1299	260	210	105
LCS 2-320	852	465	1317	260	210	105

Note: LCA is 1.5kg heavier than LCS in the same specification.

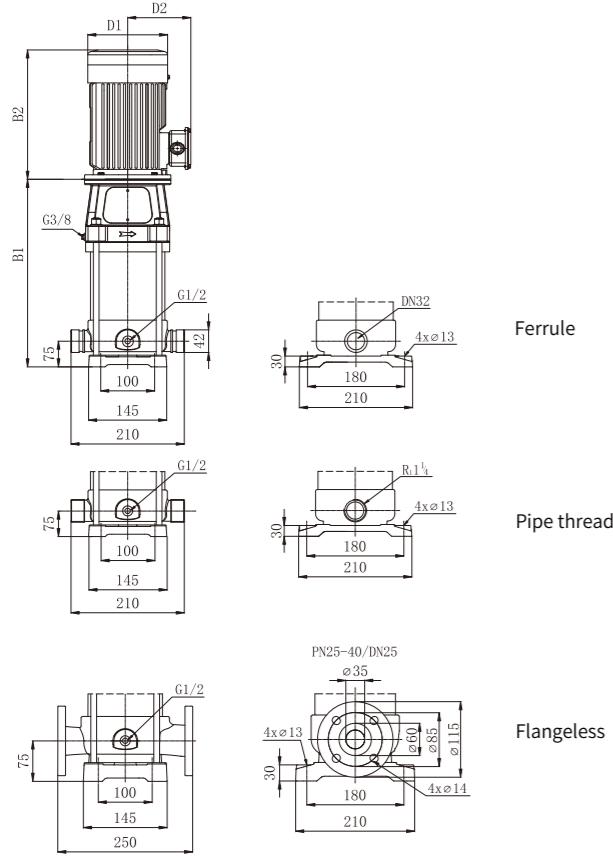
Operational performance data

Model number	Matching motor (kW)	Q (m³/h)	H (m)						
			1.0	1.2	1.6	2.0	2.4	2.8	3.2
LCS 2-20	0.37	21	20	19	18	17	16	15	13
LCS 2-30-3	0.37	27	26	24	22	20	18	15	12
LCS 2-30	0.55	31	30	28	27	26	24	22	20
LCS 2-40	0.55	41	40	38	37	35	32	30	27
LCS 2-50	0.75	51	50	48	45	43	40	38	34
LCS 2-60	0.75	61	60	58	54	52	48	46	41
LCS 2-70	1.1	71	70	67	64	61	56	53	48
LCS 2-80	1.1	81	80	77	74	70	65	61	55
LCS 2-90	1.1	91	90	86	82	78	73	68	62
LCS 2-100	1.5	101	100	96	92	87	81	76	69
LCS 2-110	1.5	111	110	105	101	96	89	84	76
LCS 2-120	1.5	121	120	115	111	105	97	91	83
LCS 2-130	2.2	131	130	124	120	113	105	99	90
LCS 2-140	2.2	141	140	134	129	122	113	107	97
LCS 2-150	2.2	151	150	143	138	131	121	114	104
LCS 2-160	2.2	162	160	153	148	140	130	122	111

Performance curve



Installation dimensions and product weight



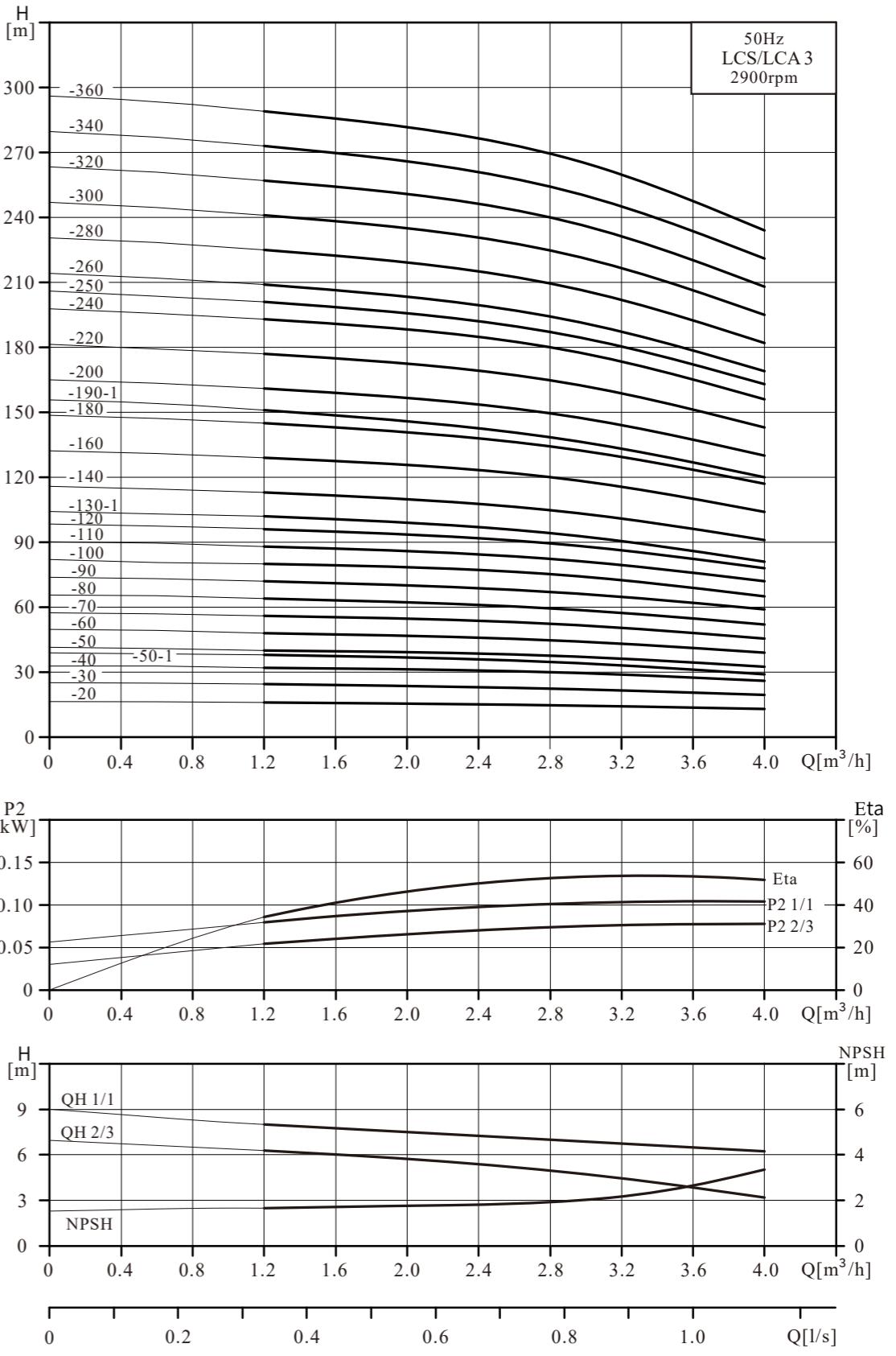
Model number	Sizes (mm)					Weights (kg)
	B1	B2	B1+B2	D1	D2	
LCS 3-20	262	240	502	148	117	23
LCS 3-30	280	240	520	148	117	24
LCS 3-40	298	240	538	148	117	25
LCS 3-50-1	316	240	556	148	117	26
LCS 3-50	326	280	606	170	142	35
LCS 3-60	344	280	624	170	142	36
LCS 3-70	362	280	642	170	142	38
LCS 3-80	380	280	660	170	142	39
LCS 3-90	398	280	678	170	142	40
LCS 3-100	426	350	776	190	155	41
LCS 3-110	444	350	794	190	155	48
LCS 3-120	462	350	812	190	155	48
LCS 3-130-1	480	350	830	190	155	49
LCS 3-140	498	350	848	190	155	54
LCS 3-160	534	350	884	190	155	54
LCS 3-180	570	350	920	190	155	55
LCS 3-190-1	588	350	938	190	155	56
LCS 3-200	616	410	1026	196	165	63
LCS 3-220	652	410	1062	196	165	65
LCS 3-240	688	410	1098	196	165	66
LCS 3-250	706	410	1116	196	165	67
LCS 3-260	724	410	1134	230	185	77
LCS 3-280	760	410	1170	230	185	78
LCS 3-300	796	410	1206	230	185	79
LCS 3-320	832	410	1242	230	185	81
LCS 3-340	888	465	1353	260	210	106
LCS 3-360	924	465	1389	260	210	108

Note: LCA is 1.5kg heavier than LCS in the same specification.

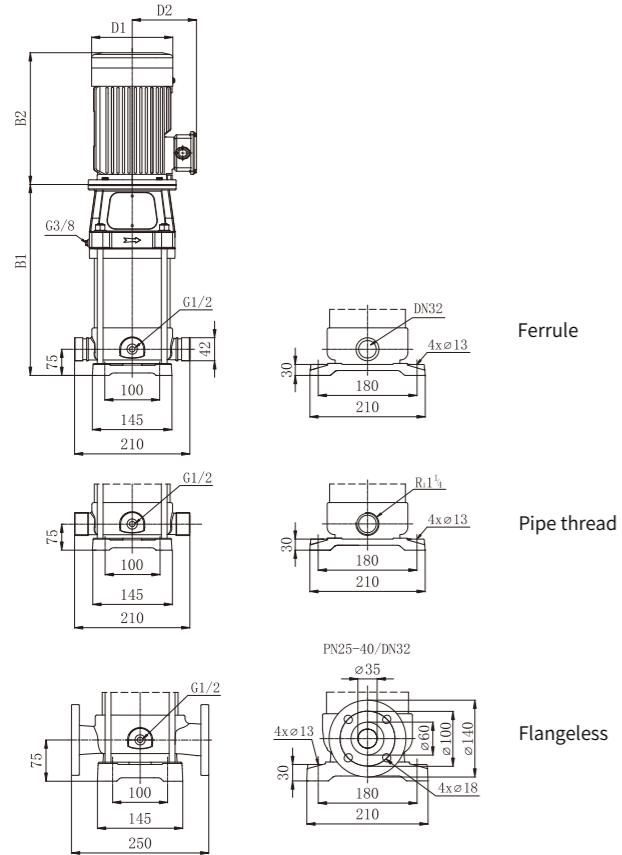
Operational performance data

Model number	Matching motor (kW)	Q (m³/h)	H (m)								
			1.2	1.6	2	2.4	2.8	3	3.2	3.6	4
LCS 3-20	0.37		16	15.8	15.5	15.2	14.8	14.5	14	13.5	13
LCS 3-30	0.37		24.5	24	23.5	23	22.5	22	21.5	20.5	19.5
LCS 3-40	0.55		32	31.5	31	30.5	30	29.5	28.5	27.5	26
LCS 3-50-1	0.55		38	37	37	36	35	34	33	31	29
LCS 3-50	0.75		40	39.5	39	38	37	37	36	34	32.5
LCS 3-60	0.75		48	47.5	47	45.5	44.5	44	43	41	39
LCS 3-70	1.1		56	55	54.5	53	52	51.5	50	48	45.5
LCS 3-80	1.1		64	63	62.5	60.5	59	58.5	57	54.5	52
LCS 3-90	1.1		72	71	70	68	67	66	65	61	59
LCS 3-100	1.5		80	79	78	76	74	74	72	68	65
LCS 3-110	1.5		88	87	86	83	81	81	79	75	72
LCS 3-120	1.5		96	95	94	91	89	88	86	82	78
LCS 3-130-1	1.5		102	101	100	96	94	93	91	86	81
LCS 3-140	2.2		113	110	110	106	103	103	100	95	91
LCS 3-160	2.2		129	126	125	121	118	118	115	109	104
LCS 3-180	2.2		145	142	141	136	133	132	129	123	117
LCS 3-190-1	2.2		151	148	147	141	138	137	134	127	120
LCS 3-200	3		161	158	157	152	148	147	143	136	130
LCS 3-220	3		177	173	172	167	163	162	158	150	143
LCS 3-240	3		193	189	188	182	177	177	172	164	156
LCS 3-250	3		201	197	196	190	185	184	179	170	163
LCS 3-260	4		209	205	204	197	192	191	186	177	169
LCS 3-280	4		225	221	219	212	207	206	201	191	182
LCS 3-300	4		241	236	235	227	222	221	215	205	195
LCS 3-320	4		257	252	251	243	236	236	229	218	208
LCS 3-340	5.5		273	268	266	258	251	250	244	232	221
LCS 3-360	5.5		289	284	282	273	266	265	258	245	234

Performance curve



Installation dimensions and product weight



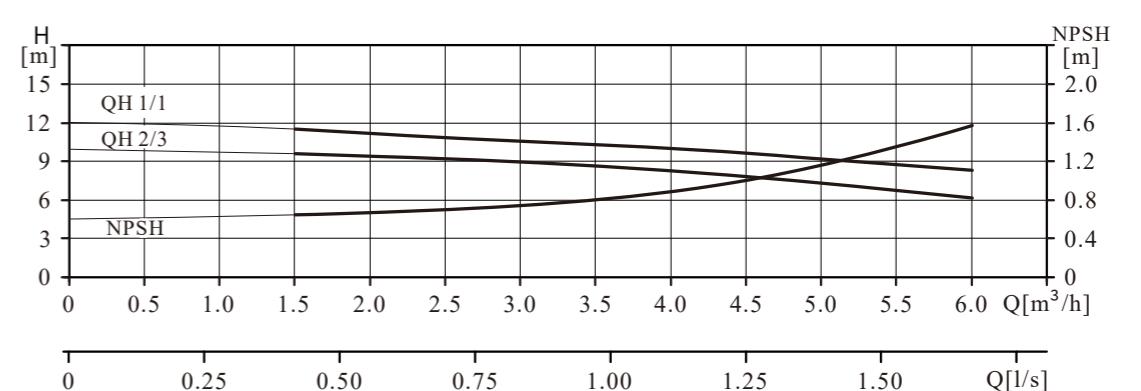
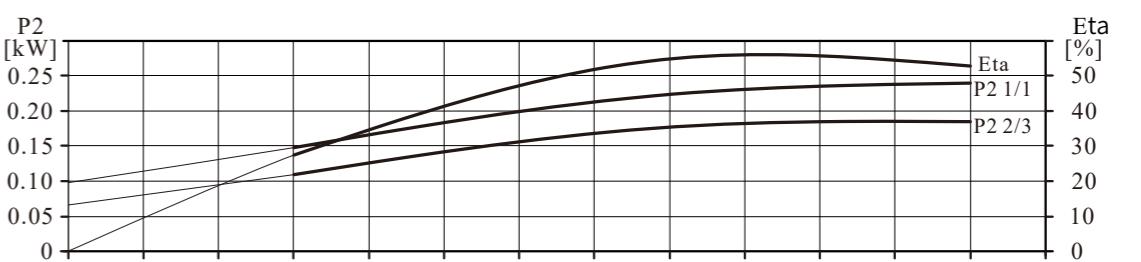
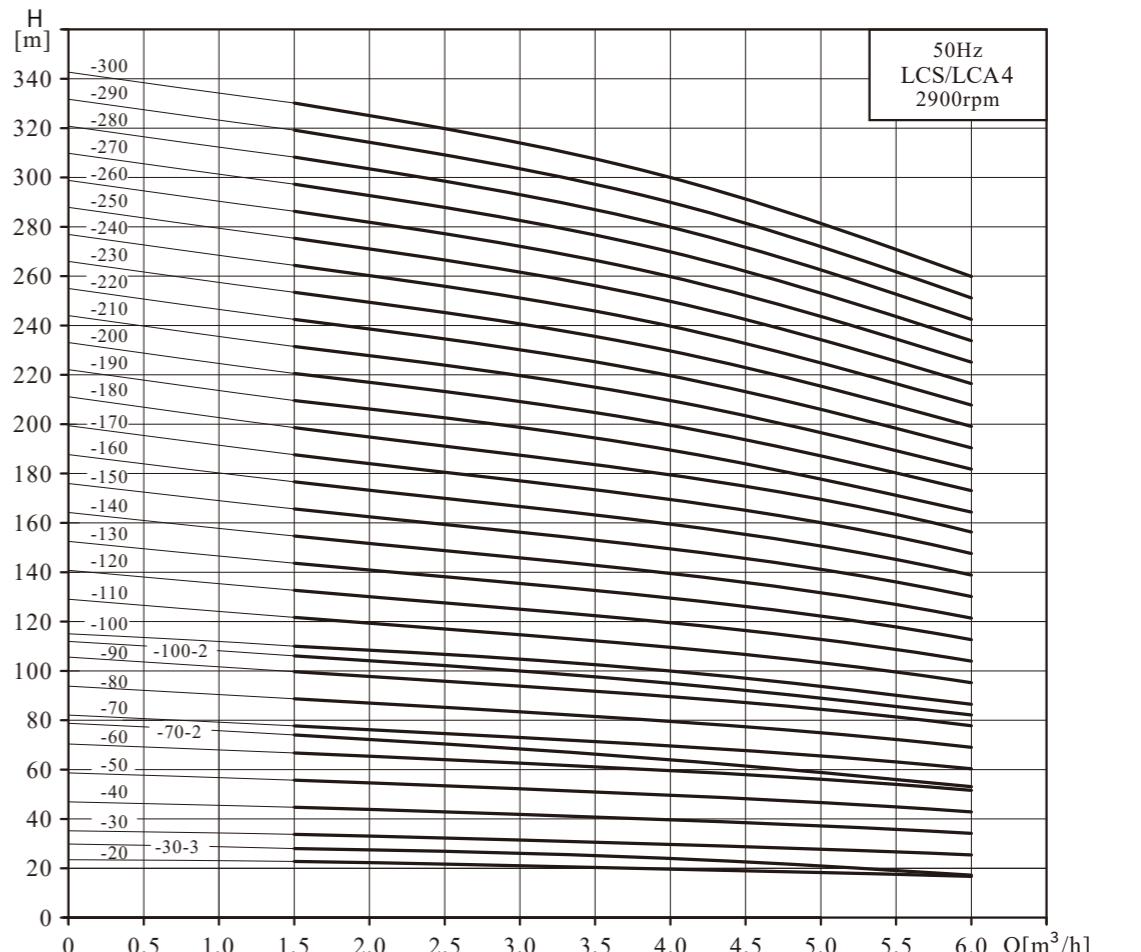
Model number	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
LCS 4-20	280	240	520	148	117	24
LCS 4-30-3	307	240	547	148	117	25
LCS 4-30	317	280	597	170	142	34
LCS 4-40	344	280	624	170	142	37
LCS 4-50	371	280	651	170	142	37
LCS 4-60	408	350	758	190	155	45
LCS 4-70-2	435	350	785	190	155	45
LCS 4-70	435	350	785	190	155	50
LCS 4-80	462	350	812	190	155	51
LCS 4-90	489	350	839	190	155	51
LCS 4-100-2	516	350	866	190	155	52
LCS 4-100	526	410	936	196	165	59
LCS 4-110	553	410	963	196	165	60
LCS 4-120	580	410	990	196	165	61
LCS 4-130	607	410	1017	196	165	61
LCS 4-140	634	410	1044	230	185	71
LCS 4-150	661	410	1071	230	185	72
LCS 4-160	688	410	1098	230	185	72
LCS 4-170	715	410	1125	230	185	73
LCS 4-180	742	410	1152	230	185	74
LCS 4-190	789	465	1254	260	210	99
LCS 4-200	816	465	1281	260	210	99
LCS 4-210	843	465	1308	260	210	100
LCS 4-220	870	465	1335	260	210	101
LCS 4-230	897	465	1362	260	210	108
LCS 4-240	924	465	1389	260	210	109
LCS 4-250	951	465	1416	260	210	110
LCS 4-260	978	465	1443	260	210	110
LCS 4-270	1005	465	1470	260	210	111
LCS 4-280	1032	465	1497	260	210	112
LCS 4-290	1059	465	1524	260	210	113
LCS 4-300	1086	465	1551	260	210	113

Note: LCA is 1.5kg heavier than LCS in the same specification.

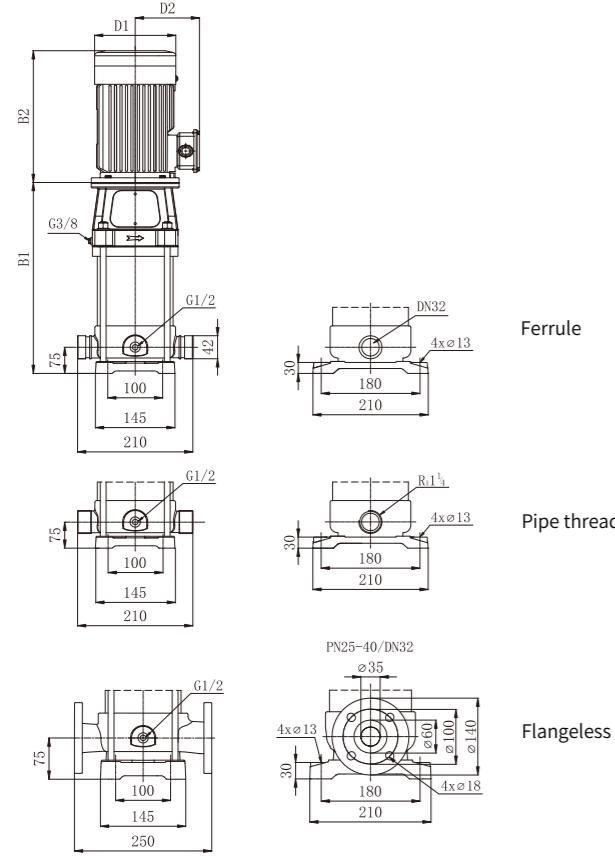
Operational performance data

Model number	Matching motor (kW)	H (m)	Q (m³/h)	1.5	2.0	3.0	4.0	5.0	6.0
LCS 4-20	0.55		23	22	21	20	18	17	
LCS 4-30-3	0.55		28	27	26	24	20	18	
LCS 4-30	0.75		33	32	31	30	28	26	
LCS 4-40	1.1		44	43	41	40	38	35	
LCS 4-50	1.1		55	54	52	50	47	44	
LCS 4-60	1.5		66	65	62	60	56	53	
LCS 4-70-2	1.5		74	72	68	64	59	53	
LCS 4-70	2.2		77	75	73	70	66	61	
LCS 4-80	2.2		88	86	83	80	75	70	
LCS 4-90	2.2		98	97	93	90	85	79	
LCS 4-100-2	2.2		106	104	100	95	90	84	
LCS 4-100	3		110	108	104	100	95	88	
LCS 4-110	3		121	119	114	110	104	97	
LCS 4-120	3		132	130	125	120	113	106	
LCS 4-130	3		143	140	135	130	123	114	
LCS 4-140	4		154	152	145	140	132	123	

Performance curve



Installation dimensions and product weight



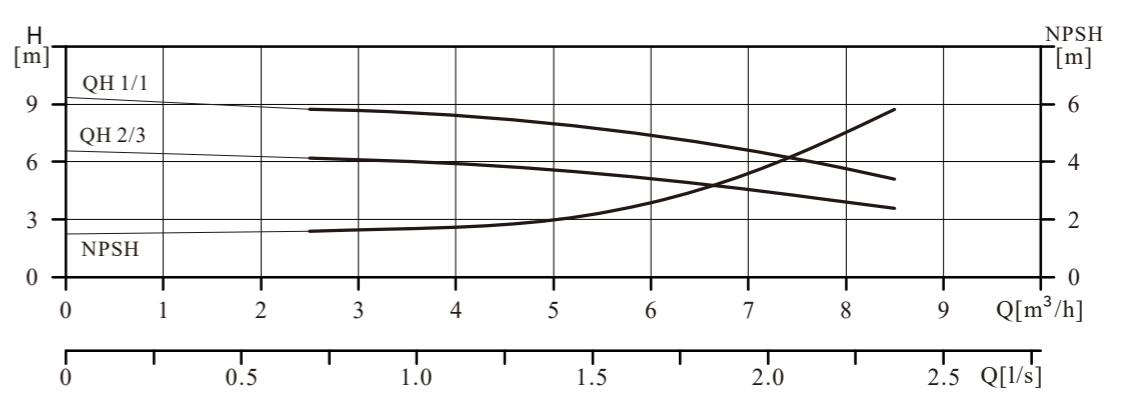
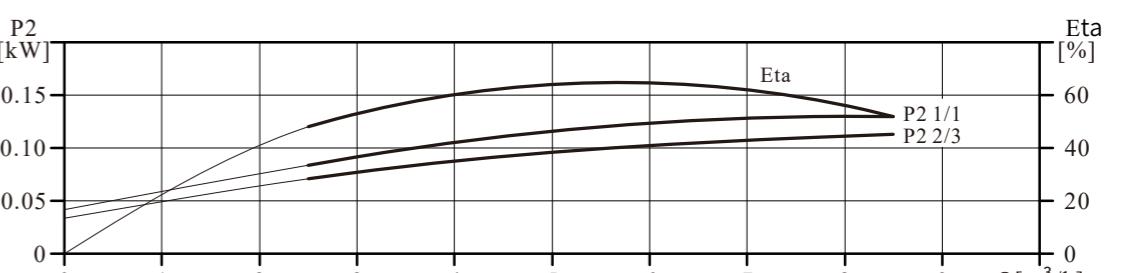
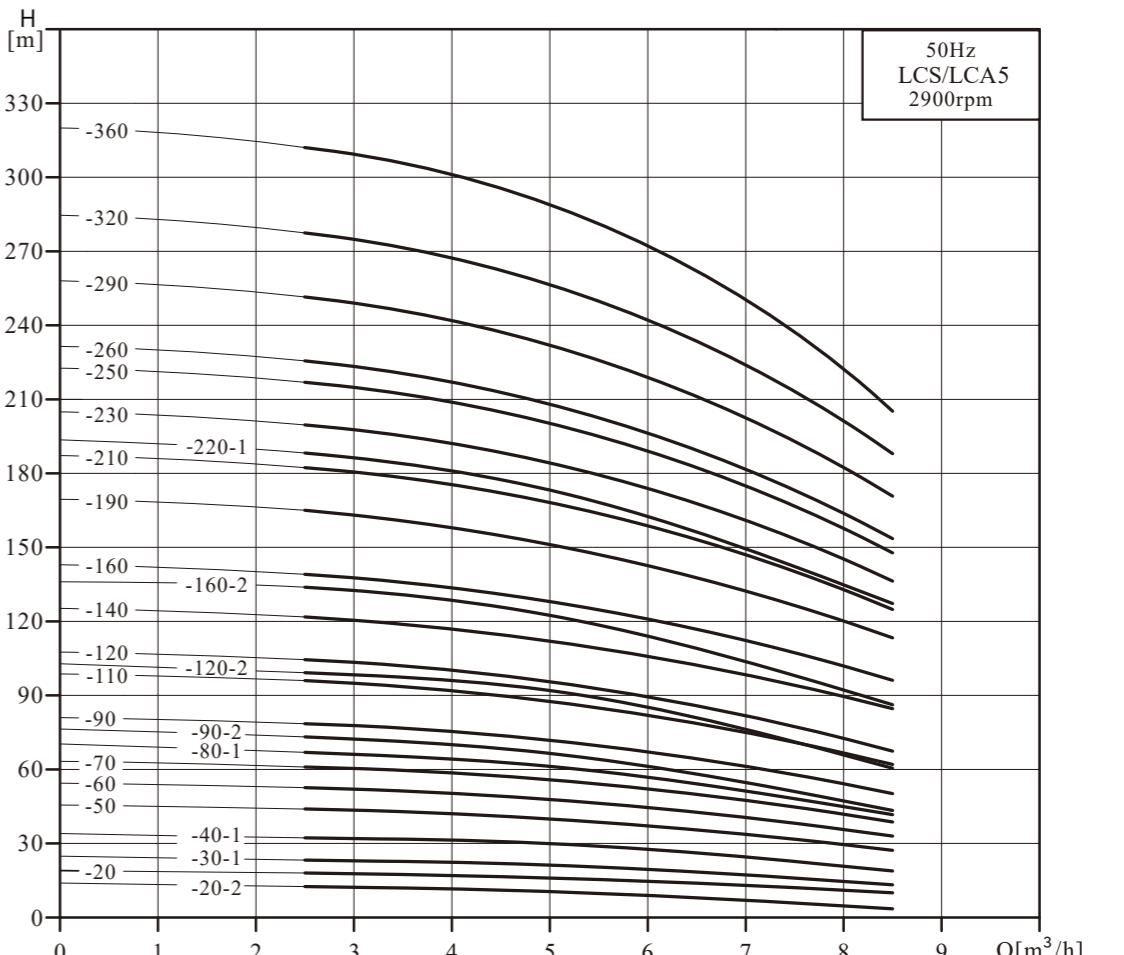
Model number	Sizes (mm)					Weights (kg)
	B1	B2	B1+B2	D1	D2	
LCS 5-20-2	280	240	520	148	117	23
LCS 5-20	280	240	520	148	117	24
LCS 5-30-1	307	240	547	148	117	24
LCS 5-40-1	344	280	624	170	142	34
LCS 5-50	371	280	651	170	142	36
LCS 5-60	398	280	678	170	142	37
LCS 5-70	435	350	785	190	155	44
LCS 5-80-1	462	350	812	190	155	45
LCS 5-90-2	489	350	839	190	155	46
LCS 5-90	489	350	839	190	155	50
LCS 5-110	543	350	893	190	155	50
LCS 5-120-2	570	350	920	190	155	51
LCS 5-120	570	350	920	190	155	52
LCS 5-140	634	410	1044	196	165	59
LCS 5-160-2	688	410	1098	196	165	61
LCS 5-160	688	410	1098	196	165	61
LCS 5-190	769	410	1179	230	185	72
LCS 5-210	823	410	1233	230	185	74
LCS 5-220-1	850	410	1260	230	185	74
LCS 5-230	897	465	1362	260	210	99
LCS 5-250	951	465	1416	260	210	100
LCS 5-260	978	465	1443	260	210	101
LCS 5-290	1059	465	1524	260	210	110
LCS 5-320	1140	465	1605	260	210	112
LCS 5-360	1248	465	1713	260	210	116

Note: LCA is 1.5kg heavier than LCS in the same specification.

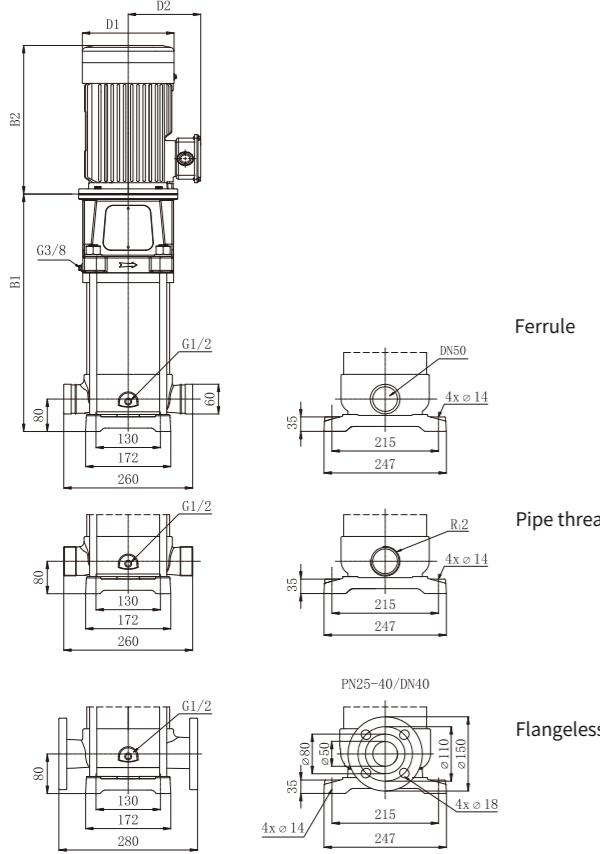
Operational performance data

Model number	Matching motor (kW)	Q (m³/h)	H (m)					
			2.5	4	5	6	7	8.5
LCS 5-20-2	0.37		12.5	11.5	10.5	9	7	3.5
LCS 5-20	0.55		17	16.5	16	15	14	12
LCS 5-30-1	0.55		23	22	21	20	17	13
LCS 5-40-1	0.75		32	31	30	27	24	19
LCS 5-50	1.1		43	42	40	38	35	29
LCS 5-60	1.1		52	50	48	45	42	34
LCS 5-70	1.5		61	59	56	53	49	40
LCS 5-80-1	1.5		67	64	61	57	52	42
LCS 5-90-2	1.5		73	70	67	62	56	43
LCS 5-90	2.2		78	75	72	68	62	51
LCS 5-110	2.2		95	92	88	83	76	63
LCS 5-120-2	2.2		99	95	92	85	76	61
LCS 5-120	2.2		104	101	96	91	83	68
LCS 5-140	3		121	117	112	106	97	80
LCS 5-160-2	3		134	129	123	115	104	83
LCS 5-160	3		139	134	128	121	111	91
LCS 5-190	4		165	159	152	143	132	108
LCS 5-210	4		182	176	168	159	146	120
LCS 5-220-1	4		188	182	173	163	149	121
LCS 5-230	5.5		199	193	184	174	160	131
LCS 5-250	5.5		217	210	200	189	174	143
LCS 5-260	5.5		225	218	208	196	181	148
LCS 5-290	7.5		251	243	232	219	201	165
LCS 5-320	7.5		277	268	256	242	222	182
LCS 5-360	7.5		312	302	288	272	250	205

Performance curve



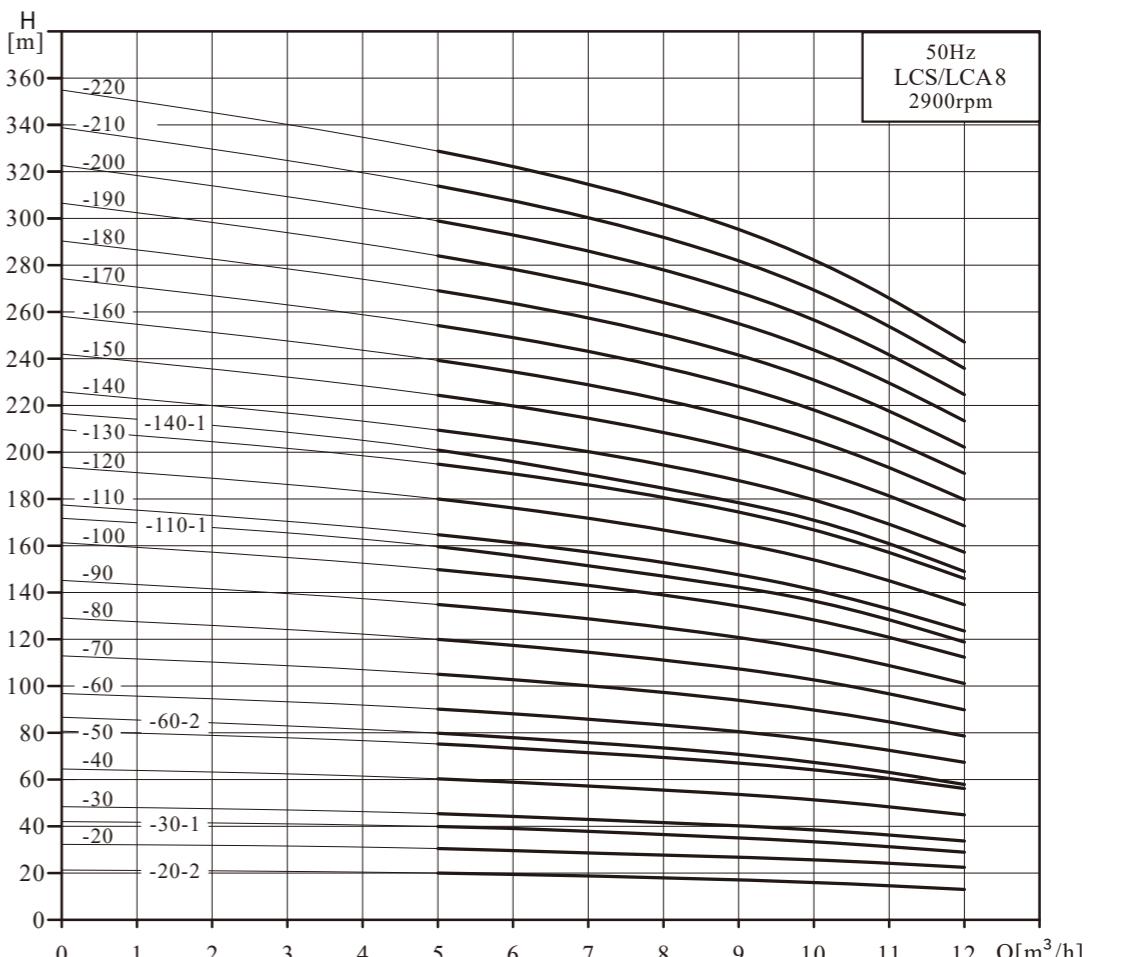
Installation dimensions and product weight



Model number	Sizes (mm)					Weights (kg)
	B1	B2	B1+B2	D1	D2	
LCS 8-20-2	355	280	635	170	142	36
LCS 8-20	355	280	635	170	142	38
LCS 8-30-1	395	350	745	190	155	46
LCS 8-30	395	350	745	190	155	50
LCS 8-40	425	350	775	190	155	51
LCS 8-50	465	410	875	196	165	58
LCS 8-60-2	495	410	905	196	165	59
LCS 8-60	495	410	905	230	185	68
LCS 8-70	525	410	935	230	185	69
LCS 8-80	555	410	965	230	185	70
LCS 8-90	605	465	1070	260	210	96
LCS 8-100	635	465	1100	260	210	97
LCS 8-110-1	665	465	1130	260	210	98
LCS 8-110	665	465	1130	260	210	105
LCS 8-120	695	465	1160	260	210	106
LCS 8-130	725	465	1190	260	210	107
LCS 8-140-1	755	465	1220	260	210	108
LCS 8-140	844	610	1454	350	260	162
LCS 8-150	874	610	1484	350	260	163
LCS 8-160	904	610	1514	350	260	164
LCS 8-170	934	610	1544	350	260	165
LCS 8-180	964	610	1574	350	260	166
LCS 8-190	994	610	1604	350	260	174
LCS 8-200	1024	610	1634	350	260	175
LCS 8-210	1054	610	1664	350	260	176
LCS 8-220	1084	610	1694	350	260	177

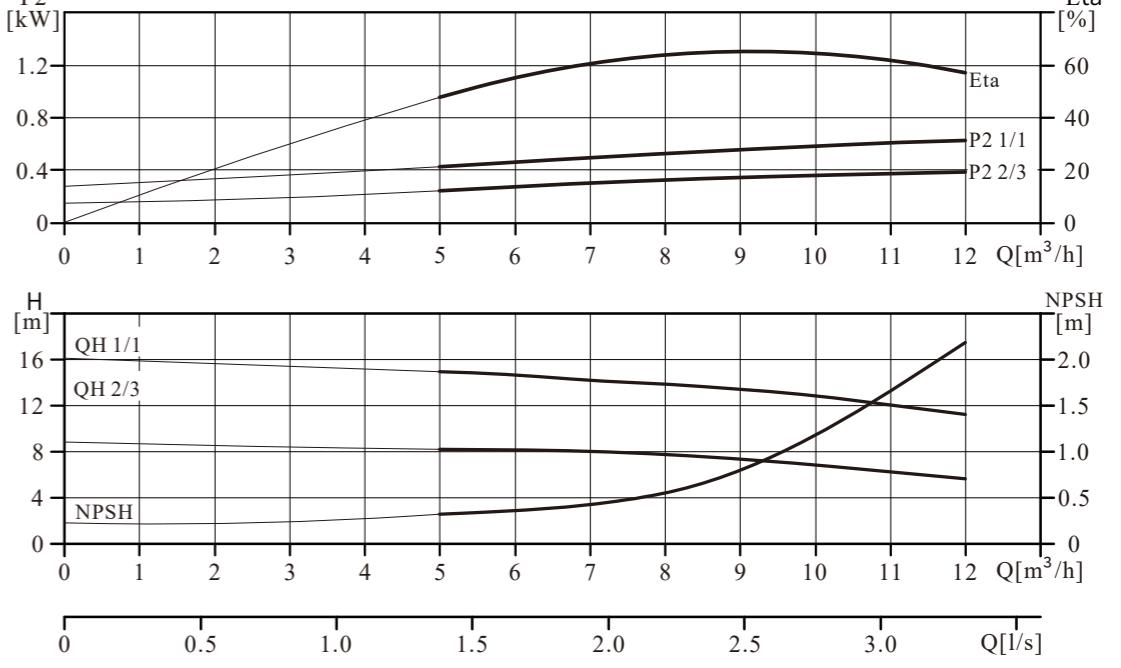
Note: LCA is 2.6kg heavier than LCS in the same specification.

Performance curve

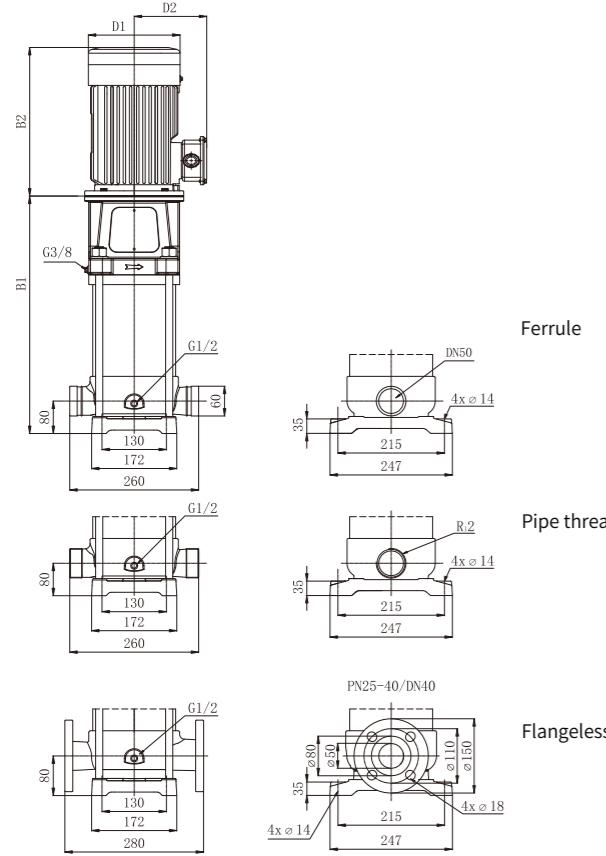


Operational performance data

Model number	Matching motor (kW)	Q (m³/h)	H (m)								
			5	6	7	8	9	10	11	12	
LCS 8-20-2	0.75		20	19.5	19	18	17	16	14	13	
LCS 8-20	1.1		30	29	28	27	26	25.5	24	22	
LCS 8-30-1	1.5		40	39	38	36	35	34	31	29	
LCS 8-30	2.2		45	44	42.5	41	40.5	38.5	36	34	
LCS 8-40	2.2		60	58.5	56.5	55	54	51	48	45	
LCS 8-50	3		75	73	71	68	68	64	60	56	
LCS 8-60-2	3		80	78	76	73	71	67	62	58	
LCS 8-60	4		90	88	85	82	81	77	72	67	
LCS 8-70	4		105	103	99	96	95	90	84	79	
LCS 8-80	4		120	117	113	110	108	103	96	90	
LCS 8-90	5.5		135	132	127	124	122	116	108	101	
LCS 8-100	5.5		150	147	142	137	135	128	121	112	
LCS 8-110-1	5.5		160	156	151	147	144	136	128	119	
LCS 8-110	7.5		165	161	156	151	149	141	133	124	
LCS 8-120	7.5		180	176	170	165	162	154	145	135	
LCS 8-130	7.5		195	191	184	179	176	167	157	146	
LCS 8-140-1	7.5		201	196	190	185	180	171	160	149	
LCS 8-140	11		210	205	198	193	189	180	169	157	
LCS 8-150	11		224	220	212	206	203	193	181	168	
LCS 8-160	11		239	235	226	220	216	205	193	180	
LCS 8-170	11		254	249	241	234	230	218	205	191	
LCS 8-180	11		269	264	255	248	244	231	217	202	
LCS 8-190	15		284	279	269	262	257	244	229	213	
LCS 8-200	15		299	294	283	276	271	257	241	224	
LCS 8-210	15		314	309	297	287	284	270	253	235	
LCS 8-220	15		329	324	311	300	297	283	265	246	



Installation dimensions and product weight



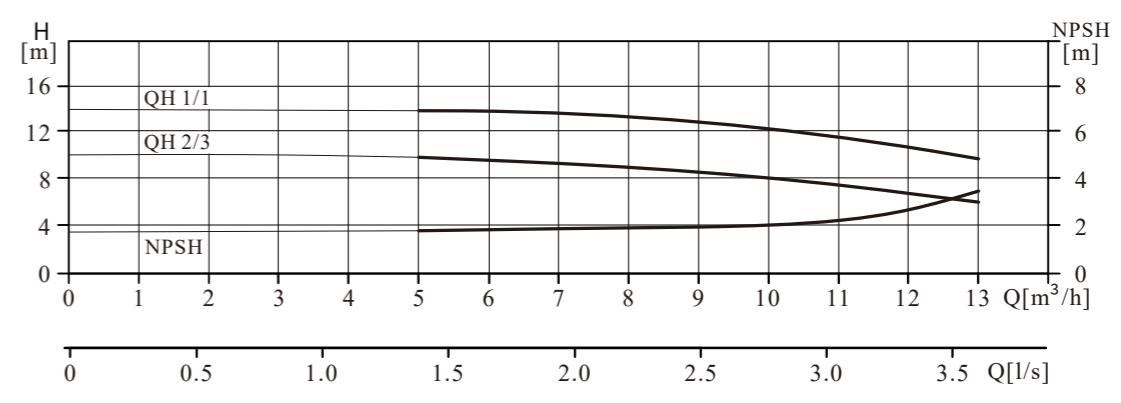
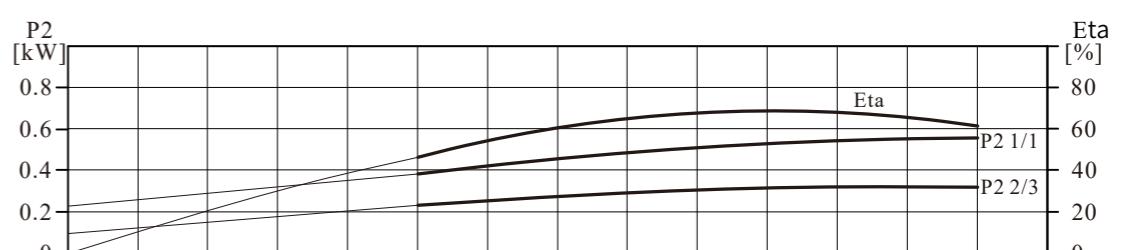
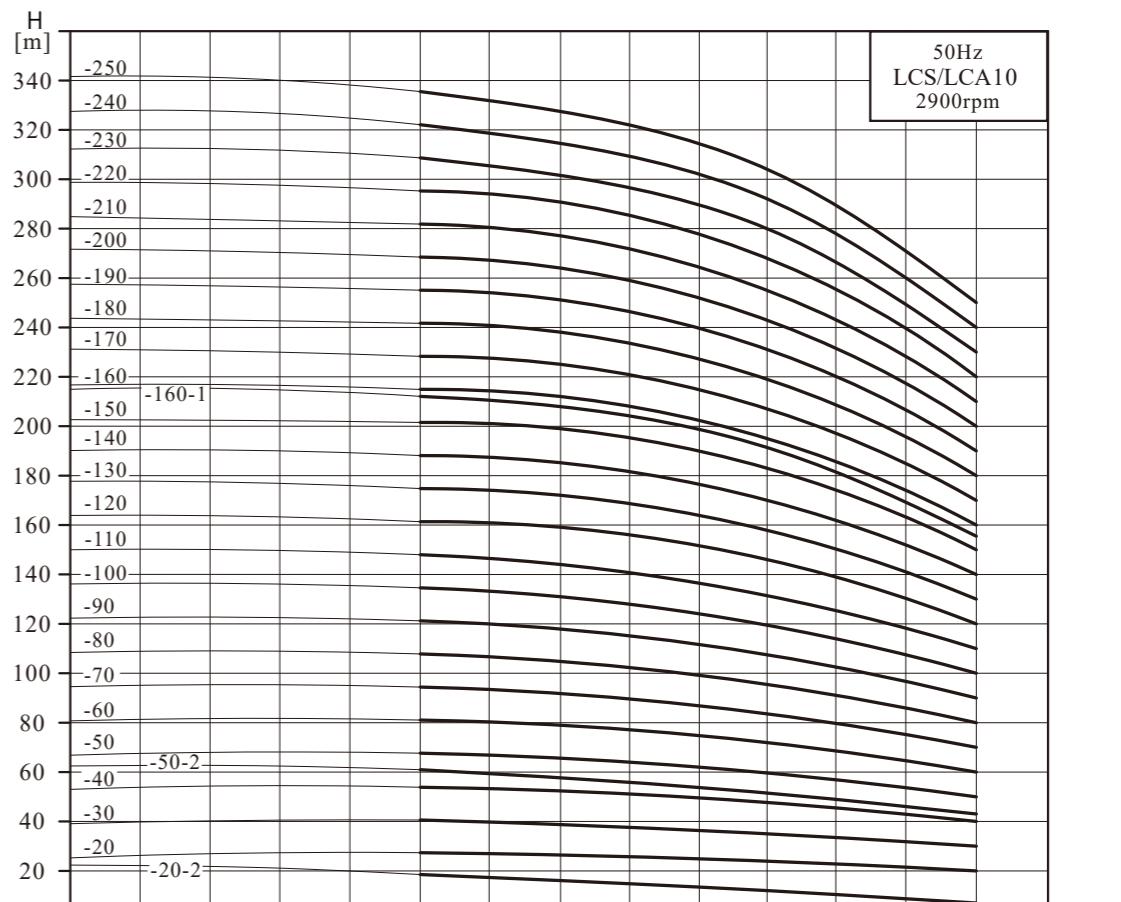
Model number	Sizes (mm)					Weights (kg)
	B1	B2	B1+B2	D1	D2	
LCS 10-20-2	355	280	635	170	142	37
LCS 10-20	355	280	635	170	142	39
LCS 10-30	395	350	745	170	142	47
LCS 10-40	425	350	775	190	155	52
LCS 10-50-2	455	350	805	190	155	53
LCS 10-50	465	410	875	196	165	59
LCS 10-60	495	410	905	196	165	60
LCS 10-70	525	410	935	230	185	70
LCS 10-80	555	410	965	230	185	71
LCS 10-90	605	465	1070	260	210	98
LCS 10-100	635	465	1100	260	210	99
LCS 10-110	665	465	1130	260	210	100
LCS 10-120	695	465	1160	260	210	108
LCS 10-130	725	465	1190	260	210	109
LCS 10-140	755	465	1220	260	210	110
LCS 10-150	785	465	1250	260	210	111
LCS 10-160-1	815	465	1280	260	210	112
LCS 10-160	904	610	1514	350	260	167
LCS 10-170	934	610	1544	350	260	168
LCS 10-180	964	610	1574	350	260	169
LCS 10-190	994	610	1604	350	260	170
LCS 10-200	1024	610	1634	350	260	171
LCS 10-210	1054	610	1664	350	260	173
LCS 10-220	1084	610	1694	350	260	181
LCS 10-230	1114	610	1724	350	260	182
LCS 10-240	1144	610	1754	350	260	183
LCS 10-250	1174	610	1784	350	260	184

Note: LCA is 2.6kg heavier than LCS in the same specification.

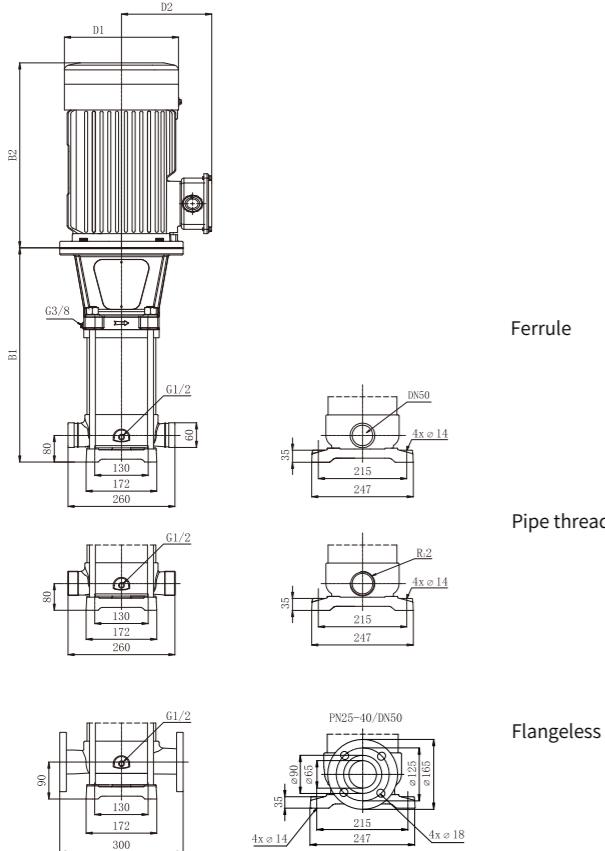
Operational performance data

Model number	Matching motor (kW)	Q (m³/h)	H (m)									
			5	6	7	8	9	10	11	12	13	
LCS 10-20-2	0.75		18.5	17	16	14	13	12	10	8.5	7	
LCS 10-20	1.1		28	27	26	25.5	25	24	23	22	20	
LCS 10-30	1.5		41	40	39.5	38	37	35	34	32	30	
LCS 10-40	2.2		55	53	52	51	49.5	48	46	43	40	
LCS 10-50-2	2.2		61	59	58	56	54	51.5	49	47	43	
LCS 10-50	3		68	67	66	64	62	60	57	54	50	
LCS 10-60	3		82	79	78	77	74	72	69	65	60	
LCS 10-70	4		96	93	92	90	87	84	80	75	70	
LCS 10-80	4		109	107	105	103	99	96	91	86	80	
LCS 10-90	5.5		123	120	118	115	111	108	103	97	90	
LCS 10-100	5.5		137	134	131	128	124	120	114	108	100	
LCS 10-110	5.5		150	147	144	141	136	132	126	118	110	
LCS 10-120	7.5		164	160	157	154	149	144	137	129	120	
LCS 10-130	7.5		177	174	170	167	161	156	149	140	130	
LCS 10-140	7.5		191	187	183	179	173	168	160	151	140	
LCS 10-150	7.5		205	200	197	192	186	180	171	162	150	
LCS 10-160-1	7.5		214	208	205	199	192	186	176	166	153	
LCS 10-160	11		218	214	210	205	198	192	183	172	160	
LCS 10-170	11		232	227	223	218	210	204	194	183	170	
LCS 10-180	11		246	240	236	231	223	216	206	194	180	
LCS 10-190	11		259	254	249	244	235	228	217	205	190	
LCS 10-200	11		273	267	262	256	248	240	229	215	200	
LCS 10-210	11		287	280	275	269	260	252	240	226	210	
LCS 10-220	15		300	294	288	282	272	264	251	237	220	
LCS 10-230	15		309	305	301	297	290	280	266	249	230	
LCS 10-240	15		322	319	314	309	302	292	278	260	240	
LCS 10-250	15		335	332	327	322	314	304	289	271	250	

Performance curve



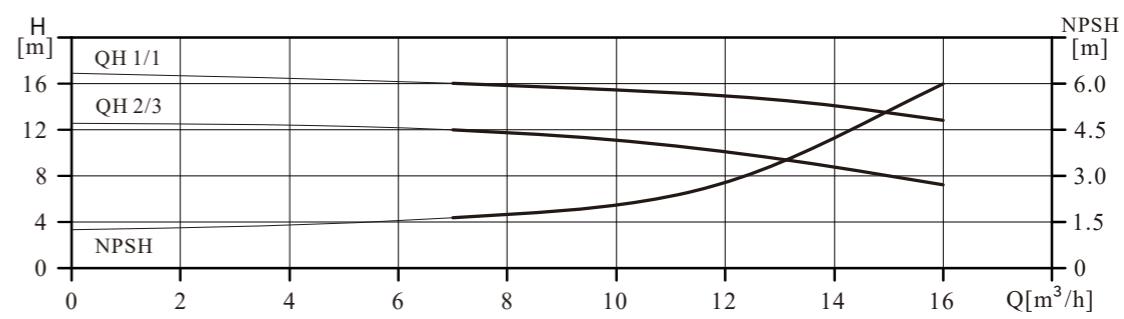
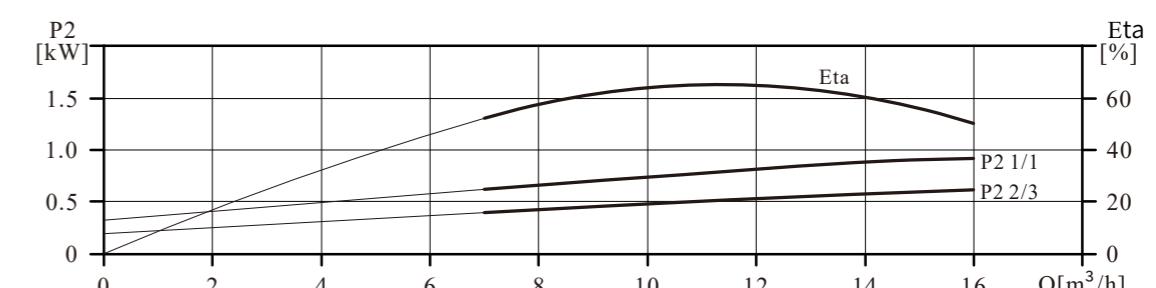
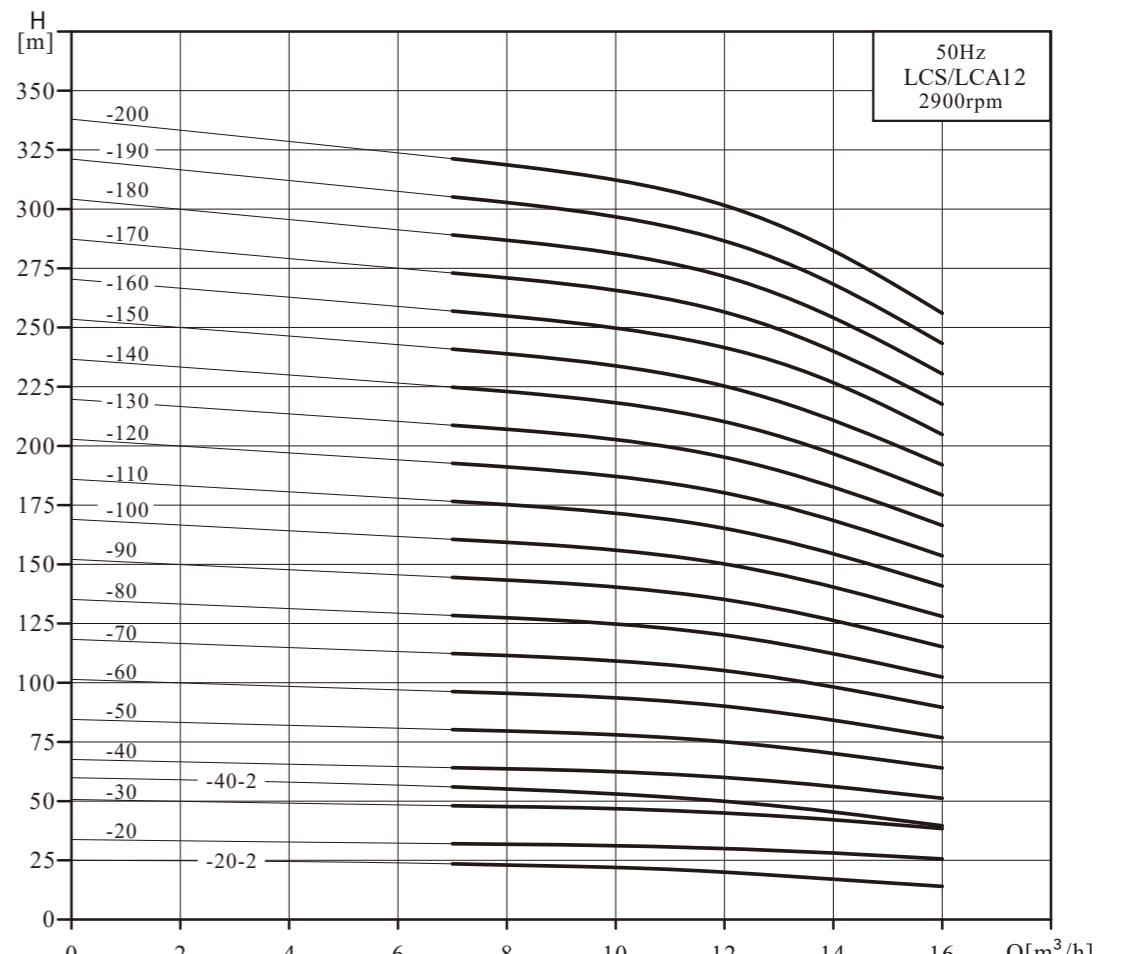
Installation dimensions and product weight



Model number	Sizes (mm)					Weights (kg)
	B1	B2	B1+B2	D1	D2	
LCS 12-20-2	365	350	715	190	155	47
LCS 12-20	365	350	715	190	155	51
LCS 12-30	405	410	815	196	165	58
LCS 12-40-2	435	410	845	196	165	59
LCS 12-40	435	410	845	230	185	68
LCS 12-50	485	465	950	260	210	94
LCS 12-60	515	465	980	260	210	95
LCS 12-70	545	465	1010	260	210	103
LCS 12-80	575	465	1040	260	210	104
LCS 12-90	694	610	1304	350	260	159
LCS 12-100	724	610	1334	350	260	160
LCS 12-110	754	610	1364	350	260	161
LCS 12-120	784	610	1394	350	260	163
LCS 12-130	814	610	1424	350	260	171
LCS 12-140	844	610	1454	350	260	172
LCS 12-150	874	610	1484	350	260	173
LCS 12-160	904	610	1514	350	260	174
LCS 12-170	934	610	1544	350	260	175
LCS 12-180	964	640	1604	350	260	198
LCS 12-190	994	640	1634	350	260	199
LCS 12-200	1024	640	1664	350	260	200

Note: LCA is 2.6kg heavier than LCS in the same specification.

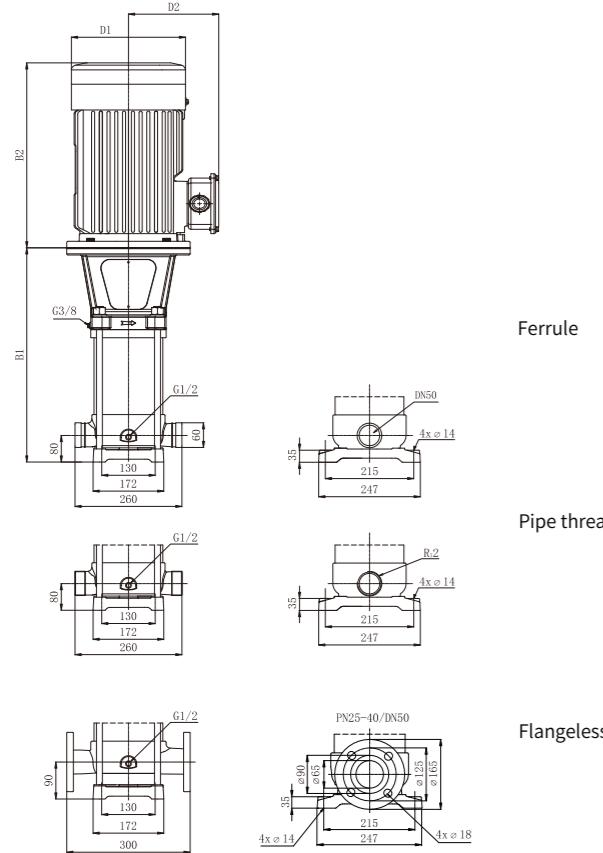
Performance curve



Operational performance data

Model number	Matching motor (kW)	Q (m³/h)	7	8	9	10	11	12	13	14	15	16
LCS 12-20-2	1.5		24	23	23	22	21	20	19	17	16	14
LCS 12-20	2.2		32.5	32	31.5	31	30.5	30	29	28	27	26
LCS 12-30	3		48	47.5	47	46.5	46	45	44	42	41	38
LCS 12-40-2	3		56	55	54	53	52	50	48	45	43	40
LCS 12-40	4		64	63.5	63	62	61	60	59	56	54	51
LCS 12-50	5.5		80	79.5	79	78	77	75	74	71	68	64
LCS 12-60	5.5		96	95	94	93	92	90	88	85	81	77
LCS 12-70	7.5		112	111	110	109	107	105	103	99	95	90
LCS 12-80	7.5		128	127	126	124	122	120	118	113	108	102
LCS 12-90	11		144	143	141	140	138	135	132	127	122	115
LCS 12-100	11		160	159	157	155	153	150	147	141	135	128
LCS 12-110	11		176	175	173	171	168	165	162	155	149	141
LCS 12-120	11		192	191	188	186	184	180	176	169	162	154
LCS 12-130	15		208	207	204	202	199	195	191	183	176	166
LCS 12-140	15		224	223	220	217	214	210	206	197	189	179
LCS 12-150	15		240	239	236	233	230	225	221	212	203	192
LCS 12-160	15		256	254	251	248	245	240	235	226	216	205
LCS 12-170	15		272	270	267	264	260	255	250	240	230	217
LCS 12-180	18.5		288	286	283	279	276	270	265	254	243	230
LCS 12-190	18.5		304	302	298	295	291	285	279	268	257	243
LCS 12-200	18.5		320	318	314	310	306	300	294	282	270	256

Installation dimensions and product weight



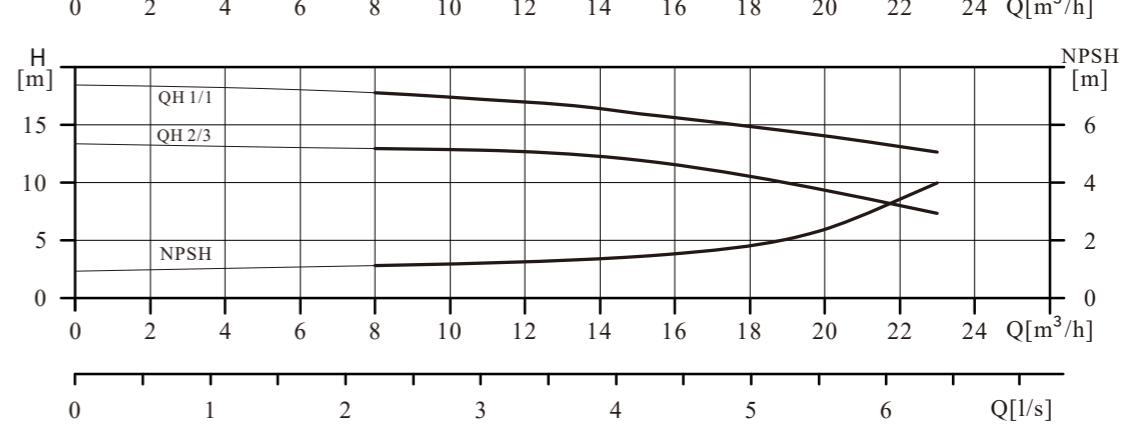
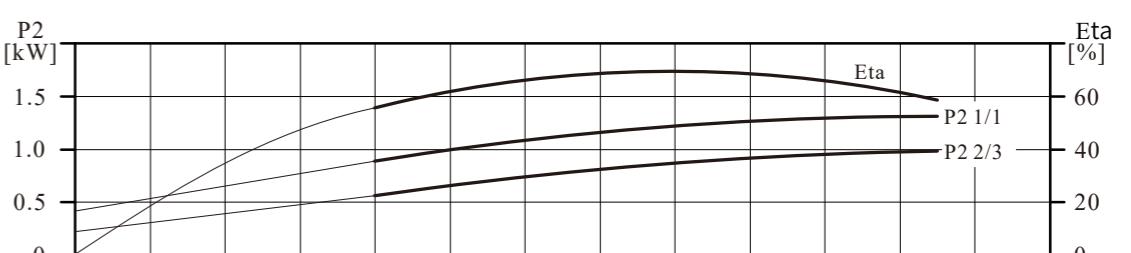
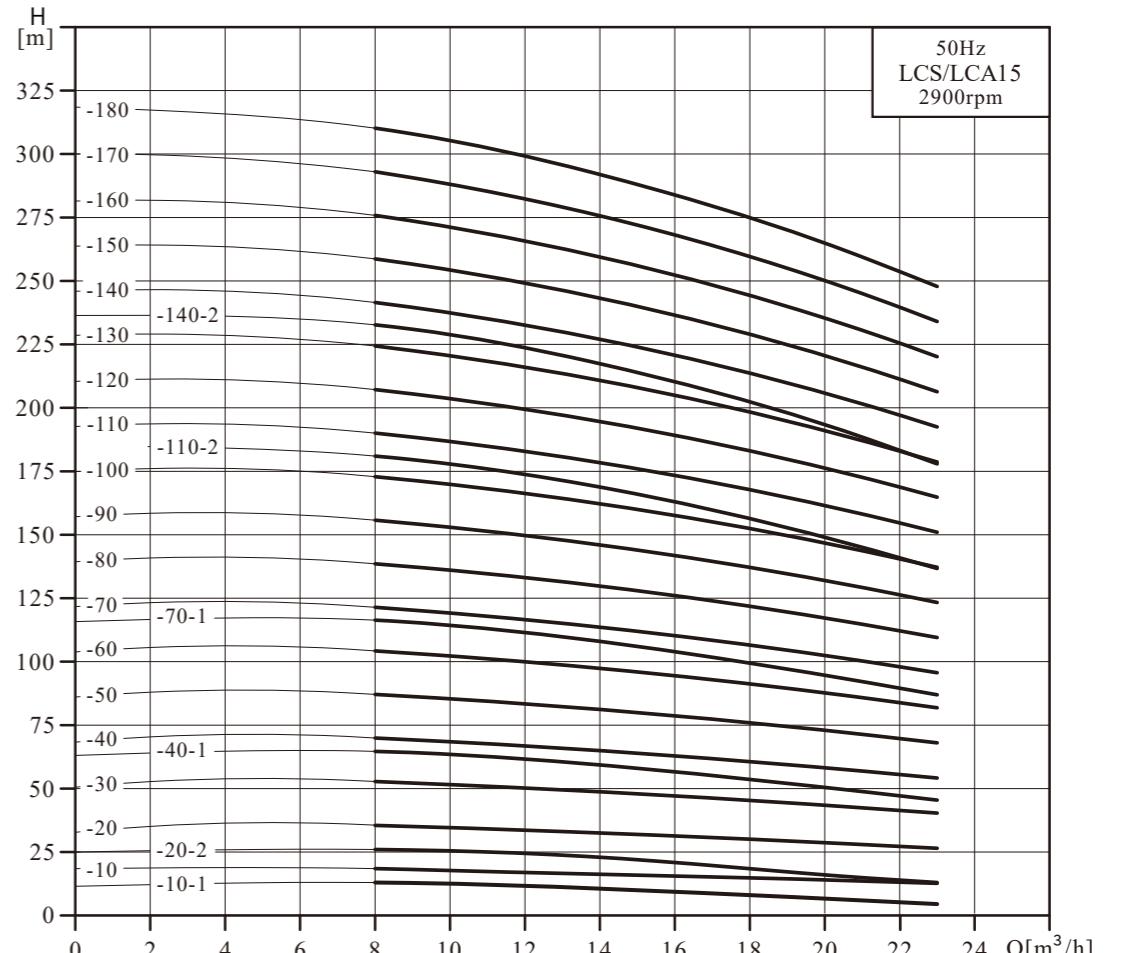
Model number	Sizes (mm)					Weights (kg)
	B1	B2	B1+B2	D1	D2	
LCS 15-10-1	346	280	626	170	142	39
LCS 15-10	356	350	706	190	155	45
LCS 15-20-2	401	350	751	190	155	51
LCS 15-20	411	410	821	196	165	58
LCS 15-30	456	410	866	230	185	68
LCS 15-40-1	501	410	911	230	185	69
LCS 15-40	521	465	986	260	210	93
LCS 15-50	566	465	1031	260	210	94
LCS 15-60	611	465	1076	260	210	102
LCS 15-70-1	656	465	1121	260	210	103
LCS 15-70	745	610	1355	350	260	158
LCS 15-80	790	610	1400	350	260	159
LCS 15-90	835	610	1445	350	260	160
LCS 15-100	880	610	1490	350	260	161
LCS 15-110-2	925	610	1535	350	260	162
LCS 15-110	925	610	1535	350	260	171
LCS 15-120	970	610	1580	350	260	172
LCS 15-130	1015	610	1625	350	260	173
LCS 15-140-2	1060	610	1670	350	260	174
LCS 15-140	1060	640	1700	350	260	196
LCS 15-150	1105	640	1745	350	260	197
LCS 15-160	1150	640	1790	350	260	198
LCS 15-170	1195	670	1865	360	285	232
LCS 15-180	1240	670	1910	360	285	233

Note: LCA is 2.8kg heavier than LCS in the same specification.

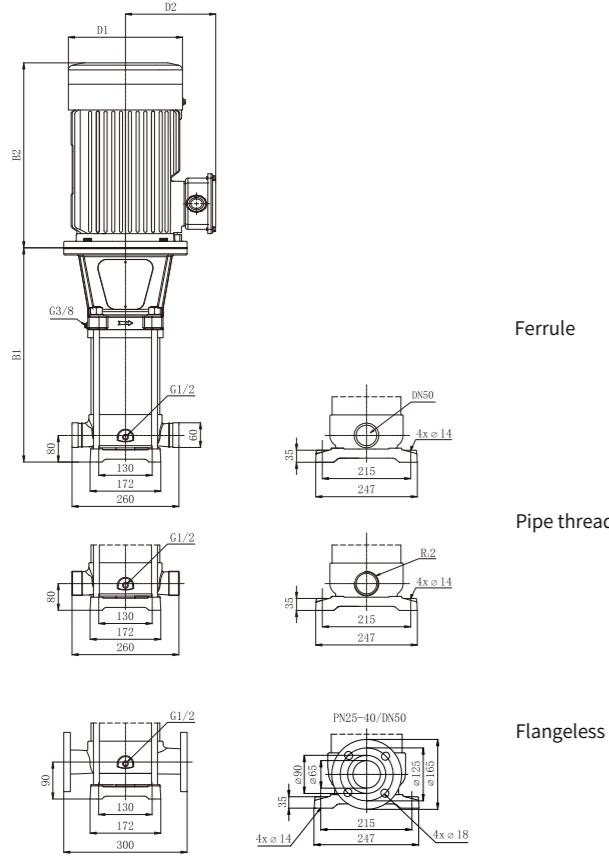
Operational performance data

Model number	Matching motor (kW)	Q (m³/h)	8	10	12	14	15	16	18	20	23
LCS 15-10-1	1.1		13	12	11.5	10.5	10	9	7.5	6	4.5
LCS 15-10	1.5		17.5	17	16.6	16.3	16	15.5	15	14.5	14
LCS 15-20-2	2.2		26	25	24	23	22	20.5	18	16	13
LCS 15-20	3		34.5	34	33	32.5	32	31.5	30.5	29.5	28
LCS 15-30	4		52	51	50	49	48	47.5	46	44.5	41
LCS 15-40-1	4		65	63	61	59	58	57	54	51	46
LCS 15-40	5.5		69	68	66.5	65	64	63	61	59	55
LCS 15-50	5.5		86	85	83	81	80	79	77	74	69
LCS 15-60	7.5		103	102	100	98	96	95	92	89	83
LCS 15-70-1	7.5		116	114	111	108	106	104	99	95	87
LCS 15-70	11		121	119	116	114	112	111	107	104	96
LCS 15-80	11		138	136	133	130	128	127	122	118	110
LCS 15-90	11		155	153	149	146	144	143	138	133	124
LCS 15-100	11		172	170	166	163	160	158	153	148	138
LCS 15-110-2	11		181	178	173	169	166	163	156	149	137
LCS 15-110	15		190	187	183	179	176	174	168	163	151
LCS 15-120	15		207	204	199	195	192	190	184	177	165
LCS 15-130	15		224	221	216	212	208	206	199	192	179
LCS 15-140-2	15		233	229	223	218	214	211	202	193	178
LCS 15-140	18.5		241	238	232	228	224	222	214	207	193
LCS 15-150	18.5		258	255	249	244	240	238	230	222	206
LCS 15-160	18.5		276	272	266	260	256	253	245	237	220
LCS 15-170	22		293	288	282	277	272	269	260	251	234
LCS 15-180	22		310	305	299	293	288	285	275	266	248

Performance curve



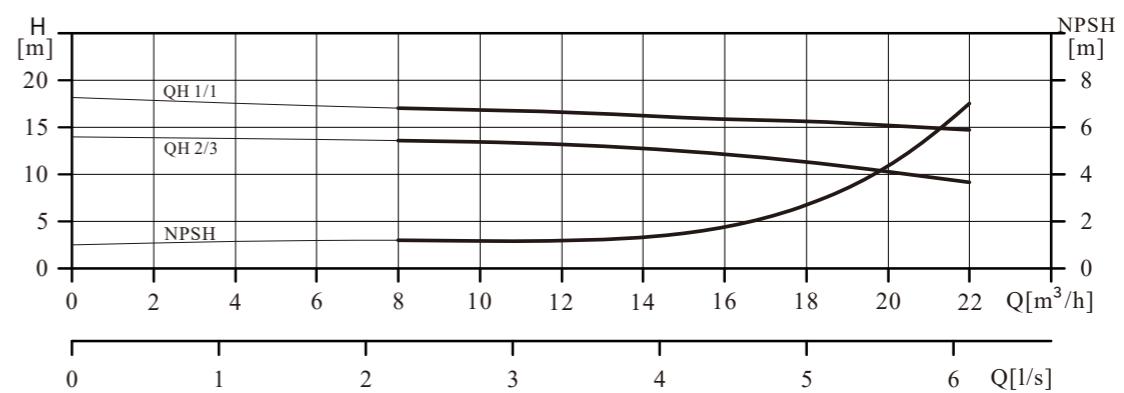
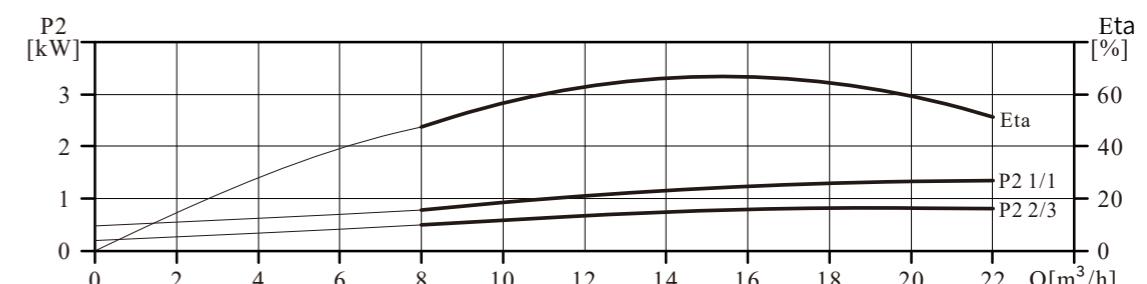
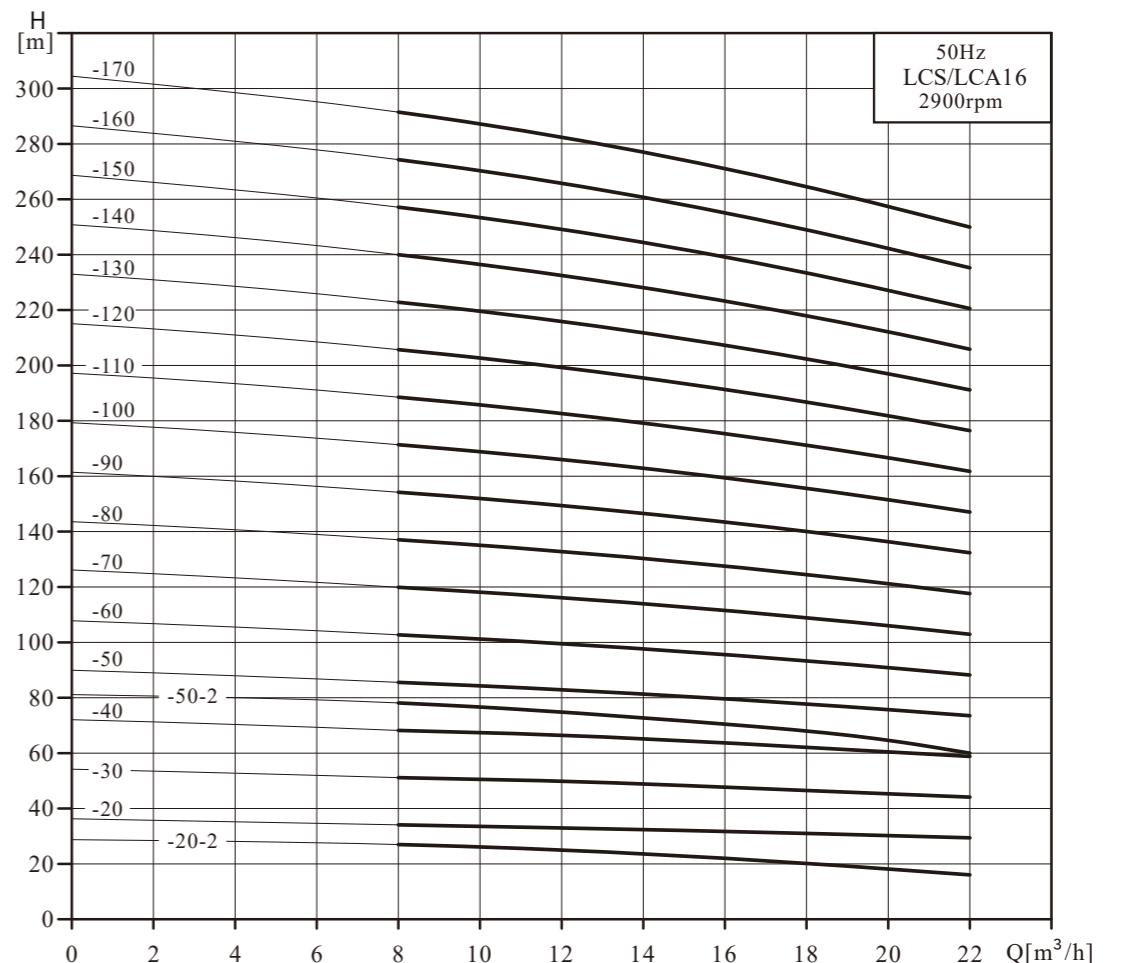
Installation dimensions and product weight



Model number	Sizes (mm)					Weights (kg)
	B1	B2	B1+B2	D1	D2	
LCS 16-20-2	401	350	751	190	155	51
LCS 16-20	411	410	821	196	165	58
LCS 16-30	456	410	866	230	185	68
LCS 16-40	521	465	986	260	210	93
LCS 16-50-2	566	465	1031	260	210	94
LCS 16-50	566	465	1031	260	210	101
LCS 16-60	611	465	1076	260	210	102
LCS 16-70	745	610	1355	350	260	159
LCS 16-80	790	610	1400	350	260	159
LCS 16-90	835	610	1445	350	260	160
LCS 16-100	880	610	1490	350	260	168
LCS 16-110	925	610	1535	350	260	169
LCS 16-120	970	610	1580	350	260	171
LCS 16-130	1015	640	1655	350	260	194
LCS 16-140	1060	640	1700	350	260	195
LCS 16-150	1105	670	1775	360	285	228
LCS 16-160	1150	670	1820	360	285	229
LCS 16-170	1195	670	1865	360	285	231

Note: LCA is 2.8kg heavier than LCS in the same specification.

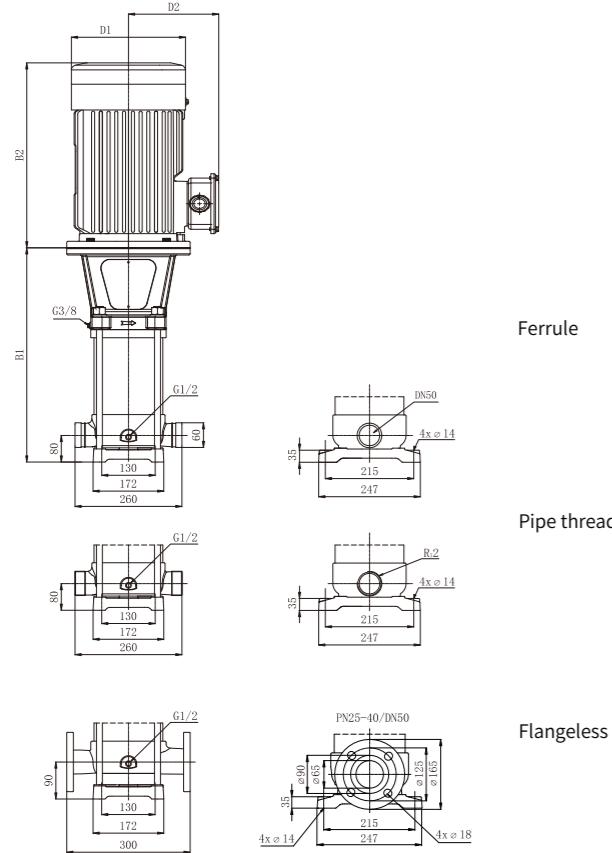
Performance curve



Operational performance data

Model number	Matching motor (kW)	Q (m³/h)	8	10	12	14	16	18	20	22
LCS 16-20-2	2.2		27	26	25	24	22	21	19	16
LCS 16-20	3	34	33.5	33	32.5	32	31	30	29	
LCS 16-30	4	51	50.5	50	48.5	48	47	46	44	
LCS 16-40	5.5	68	67	66	64.5	63.5	63	61	59	
LCS 16-50-2	5.5	78	77	75	73	70	68	65	60	
LCS 16-50	7.5	85	84	83	81	79	78	76	74	
LCS 16-60	7.5	102	101	100	97	95	94	91	88	
LCS 16-70	11	119	118	116	113	110	109	106	103	
LCS 16-80	11	136	135	133	129	126	125	122	118	
LCS 16-90	11	153	152	149	145	142	141	137	132	
LCS 16-100	15	170	168	166	161	158	156	152	147	
LCS 16-110	15	187	185	183	178	173	172	167	162	
LCS 16-120	15	204	202	199	194	189	188	183	176	
LCS 16-130	18.5	222	219	216	210	205	203	198	191	
LCS 16-140	18.5	239	236	233	226	221	219	213	206	
LCS 16-150	22	256	253	250	242	237	235	229	220	
LCS 16-160	22	273	270	267	258	253	250	244	235	
LCS 16-170	22	290	287	284	274	269	266	259	250	

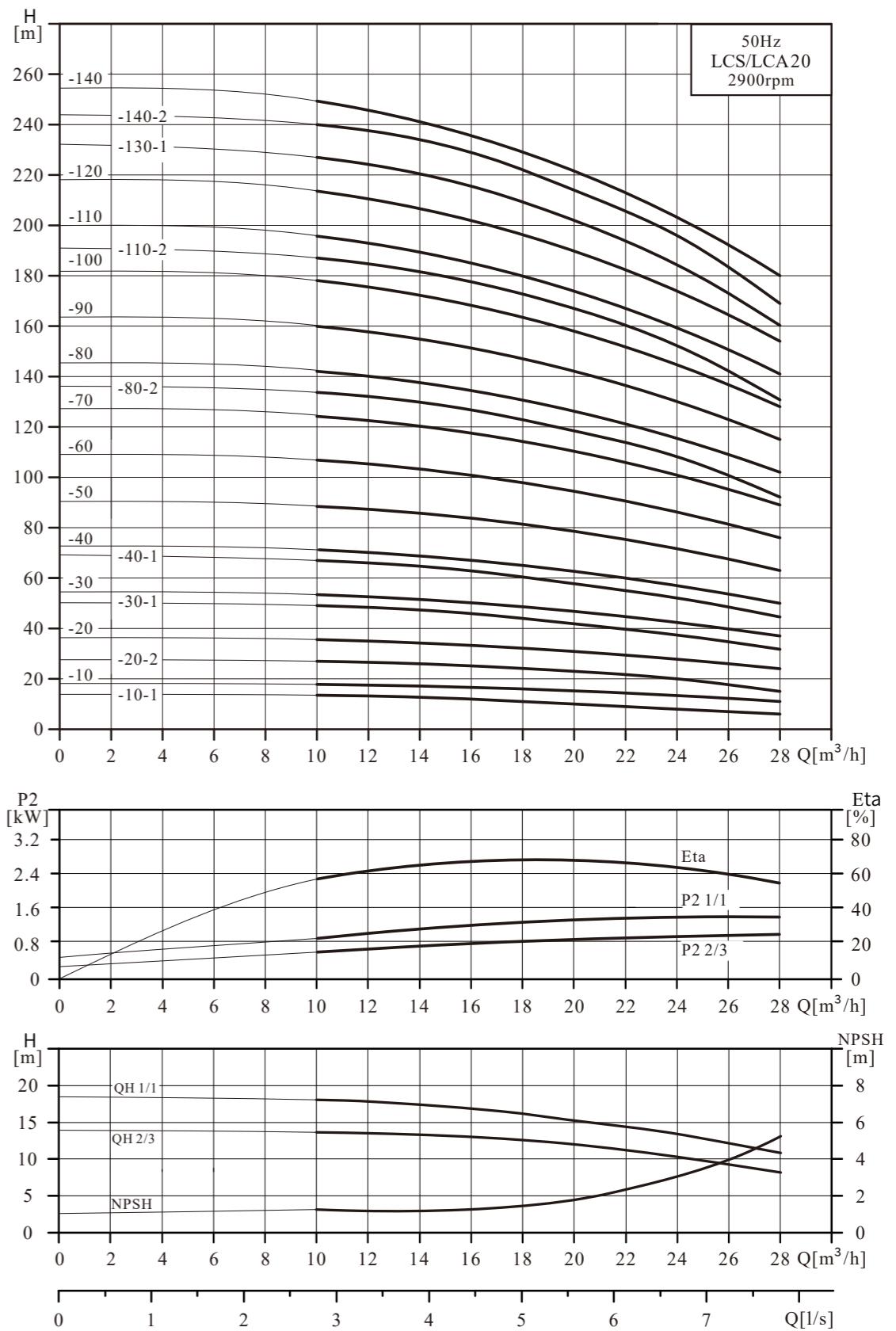
Installation dimensions and product weight



Model number	Sizes (mm)					Weights (kg)
	B1	B2	B1+B2	D1	D2	
LCS 20-10-1	346	280	626	170	142	40
LCS 20-10	356	350	706	190	155	47
LCS 20-20-2	401	350	751	190	155	52
LCS 20-20	411	410	821	196	165	58
LCS 20-30-1	456	410	866	230	185	69
LCS 20-30	476	465	941	260	210	94
LCS 20-40-1	521	465	986	260	210	95
LCS 20-40	521	465	986	260	210	103
LCS 20-50	566	465	1031	260	210	105
LCS 20-60	700	610	1310	350	260	160
LCS 20-70	745	610	1355	350	260	161
LCS 20-80-2	790	610	1400	350	260	162
LCS 20-80	790	610	1400	350	260	169
LCS 20-90	835	610	1445	350	260	171
LCS 20-100	880	610	1490	350	260	172
LCS 20-110-2	925	610	1535	350	260	173
LCS 20-110	925	640	1565	350	260	197
LCS 20-120	970	640	1610	350	260	198
LCS 20-130-1	1015	640	1655	350	260	199
LCS 20-140-2	1060	670	1730	360	285	233
LCS 20-140	1060	670	1730	360	285	234

Note: LCA is 2.8kg heavier than LCS in the same specification.

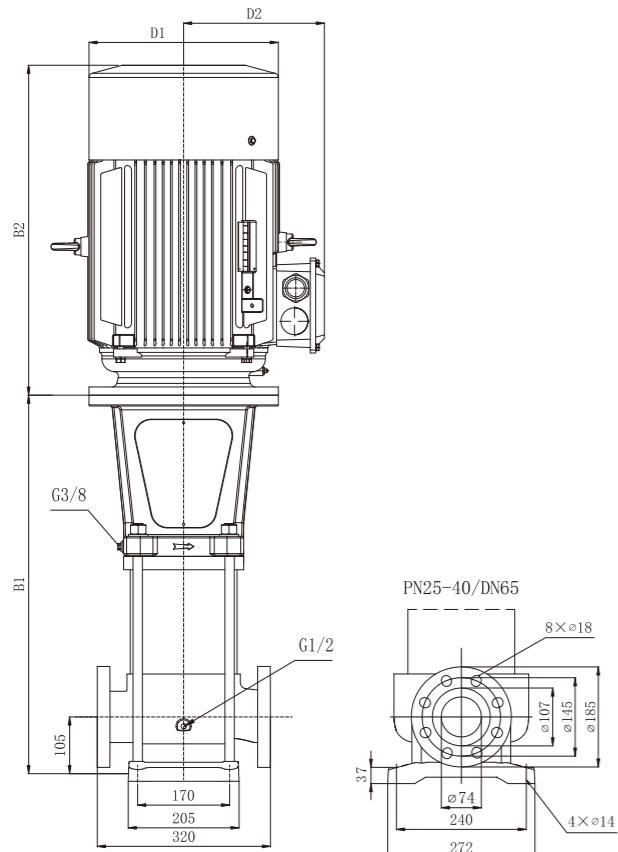
Performance curve



Operational performance data

Model number	Matching motor (kW)	Q (m³/h)	H (m)									
			10	12	14	16	18	20	22	24	26	28
LCS 20-10-1	1.1		13.5	13	12.5	12	11	10	9	8	7	6
LCS 20-10	1.5		18	17.5	17	16.5	16	15.5	15	14.5	14	13
LCS 20-20-2	2.2		27	26.5	26	25	24	23	22	20	18	15
LCS 20-20	3		36	35	34.5	34	33	32	31	29	28	26
LCS 20-30-1	4		49	48	47	46	44	42	40	37	35	32
LCS 20-30	5.5		53.5	53	52	51	49	48	46	44	41	39
LCS 20-40-1	5.5		67	66	64	63	60	58	55	52	48	45
LCS 20-40	7.5		71	70	69	68	66	64	62	59	55	51
LCS 20-50	7.5		89	88	86	85	82	80	77	74	69	64
LCS 20-60	11		107	105	104	102	98	95	92	88	83	77
LCS 20-70	11		125	123	121	119	115	111	108	103	96	90
LCS 20-80-2	11		134	132	130	127	122	118	114	108	101	92
LCS 20-80	15		142	140	138	136	131	127	123	118	110	103
LCS 20-90	15		160	158	155	153	148	143	138	132	124	116
LCS 20-100	15		178	176	173	170	164	159	154	147	138	129
LCS 20-110-2	15		187	185	181	178	172	167	160	152	142	131
LCS 20-110	18.5		196	193	190	187	180	175	169	162	151	141
LCS 20-120	18.5		213	211	207	204	197	191	185	176	165	154
LCS 20-130-1	18.5		227	224	220	216	208	202	194	184	172	160
LCS 20-140-2	22		240	237	233	229	221	214	207	196	183	169
LCS 20-140	22		249	246	242	237	230	223	215	206	193	180

Installation dimensions and product weight



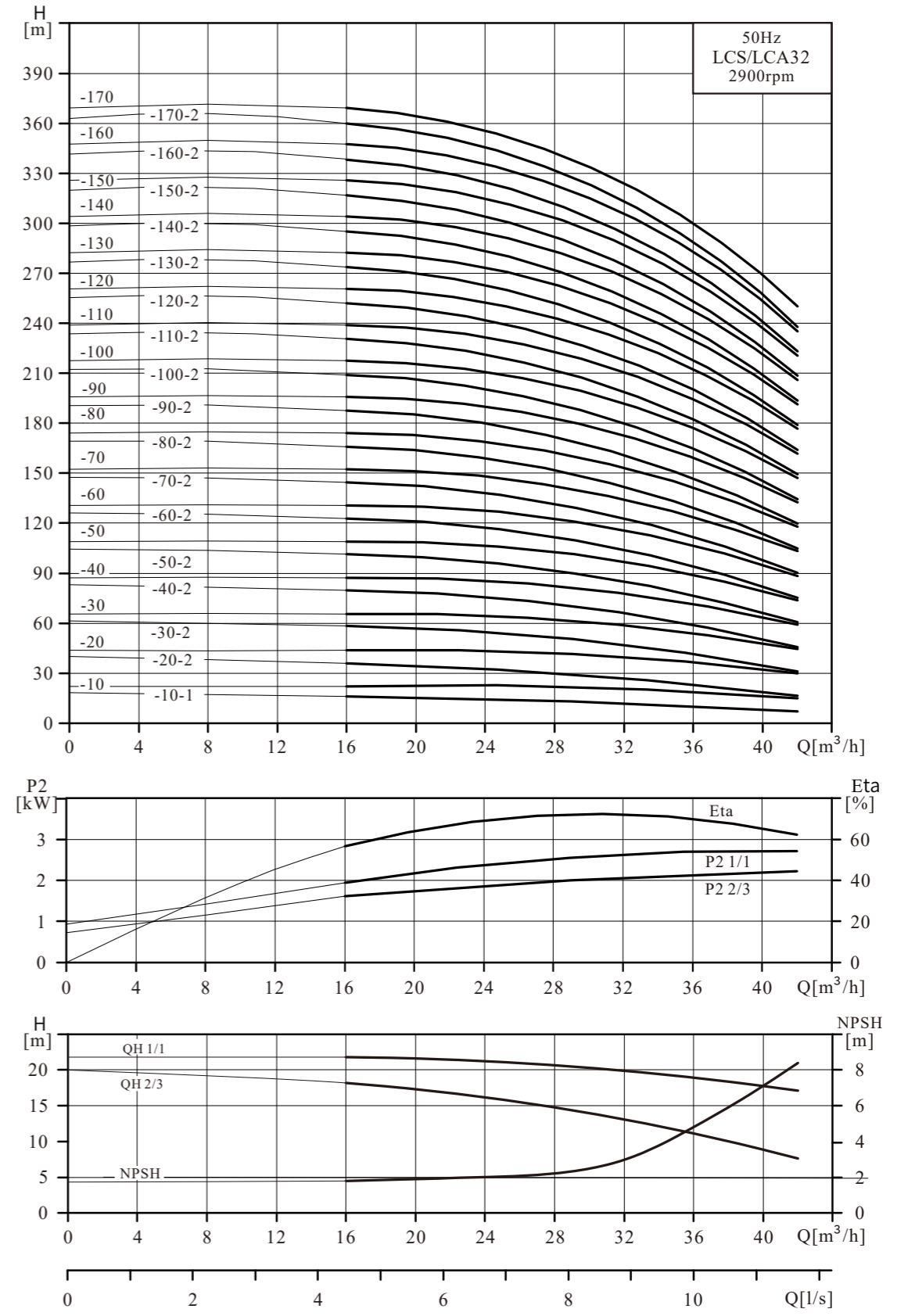
Model number	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
LCS32-10-1	444	350	794	190	155	61
LCS32-10	454	410	864	196	165	67
LCS32-20-2	524	410	934	230	185	78
LCS32-20	530	465	995	260	210	102
LCS32-30-2/LCS32-30	600	465	1065	260	210	111
LCS32-40-2/LCS32-40	770	610	1380	350	260	169
LCS32-50-2	840	610	1450	350	260	171
LCS32-50	840	610	1450	350	260	178
LCS32-60-2/LCS32-60	910	610	1520	350	260	180
LCS32-70-2/LCS32-70	980	640	1620	350	260	204
LCS32-80-2	1050	640	1690	350	260	206
LCS32-80	1050	670	1720	360	285	240
LCS32-90-2/LCS32-90	1120	670	1790	360	285	242
LCS32-100-2/LCS32-100	1190	715	1905	400	310	316
LCS32-110-2/LCS32-110	1260	715	1975	400	310	318
LCS32-120-2/LCS32-120	1330	715	2045	400	310	320
LCS32-130-2/LCS32-130	1400	715	2115	400	310	336
LCS32-140-2/LCS32-140	1470	715	2185	400	310	338
LCS32-150-2	1540	715	2255	400	310	340
LCS32-150	1540	740	2280	460	340	411
LCS32-160-2/LCS32-160	1610	740	2350	460	340	413
LCS32-170-2/LCS32-170	1680	740	2420	460	340	415

Note: LCA is 4.6kg heavier than LCS in the same specification.

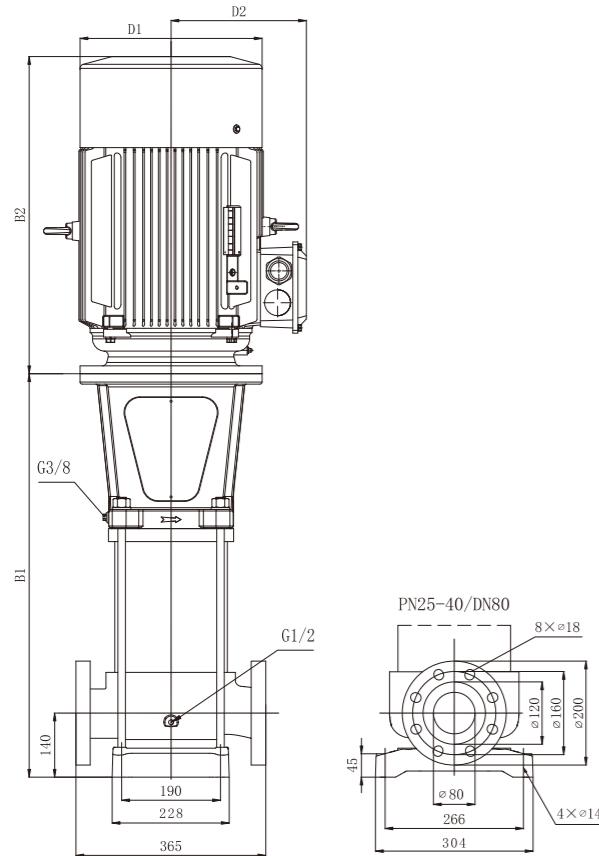
Operational performance data

Model number	Matching motor (kW)	Q (m³/h)	16	20	24	28	32	36	40	42
			18	17	15	14	13	11	8	7
LCS 32-10-1	2.2		22	21.5	21	20	19	18	16	15
LCS 32-10	3		36	34	32	29	27	23	18	17
LCS 32-20-2	4		43	42.5	42	40	38	35	32	29
LCS 32-20	5.5		58	55	53	49	46	41	34	31
LCS 32-30-2	7.5		65	64	63	61	57	53	48	44
LCS 32-30	7.5		79	77	74	69	65	58	50	46
LCS 32-40-2	11		86	85	83	81	77	71	63	59
LCS 32-40	11		101	98	95	90	84	76	66	61
LCS 32-50-2	11		108	107	104	101	96	88	79	74
LCS 32-50	15		122	119	115	110	104	94	81	75
LCS 32-60-2	15		129	128	125	121	115	106	95	88
LCS 32-60	15		144	141	136	130	123	111	97	90
LCS 32-70-2	18.5		151	149	146	141	134	124	111	103
LCS 32-70	18.5		165	162	157	150	142	129	113	105
LCS 32-80-2	18.5		172	171	167	162	153	142	127	118
LCS 32-80	22		187	183	178	170	161	147	129	120
LCS 32-90-2	22		194	192	188	182	172	159	143	133
LCS 32-100-2	30		208	205	199	191	180	165	145	134

Performance curve



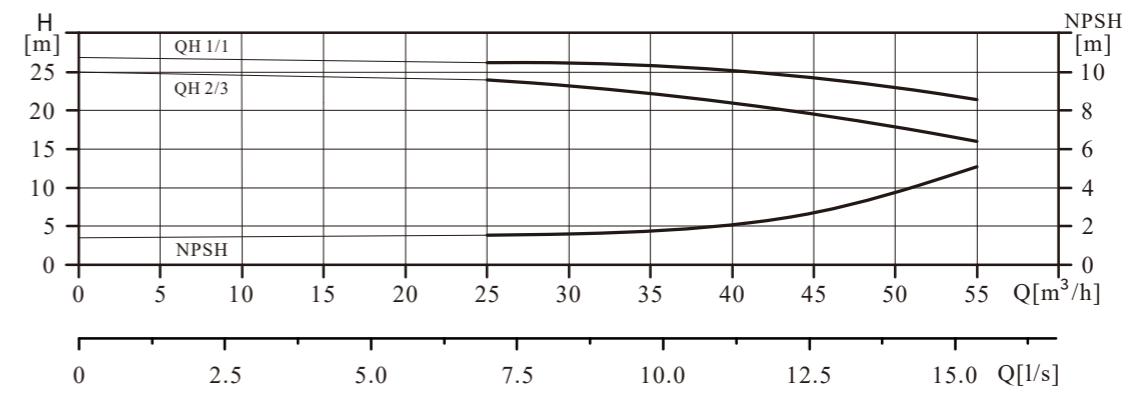
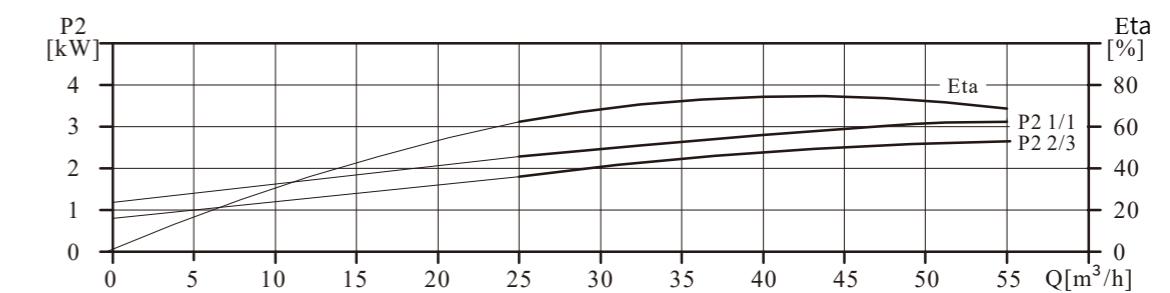
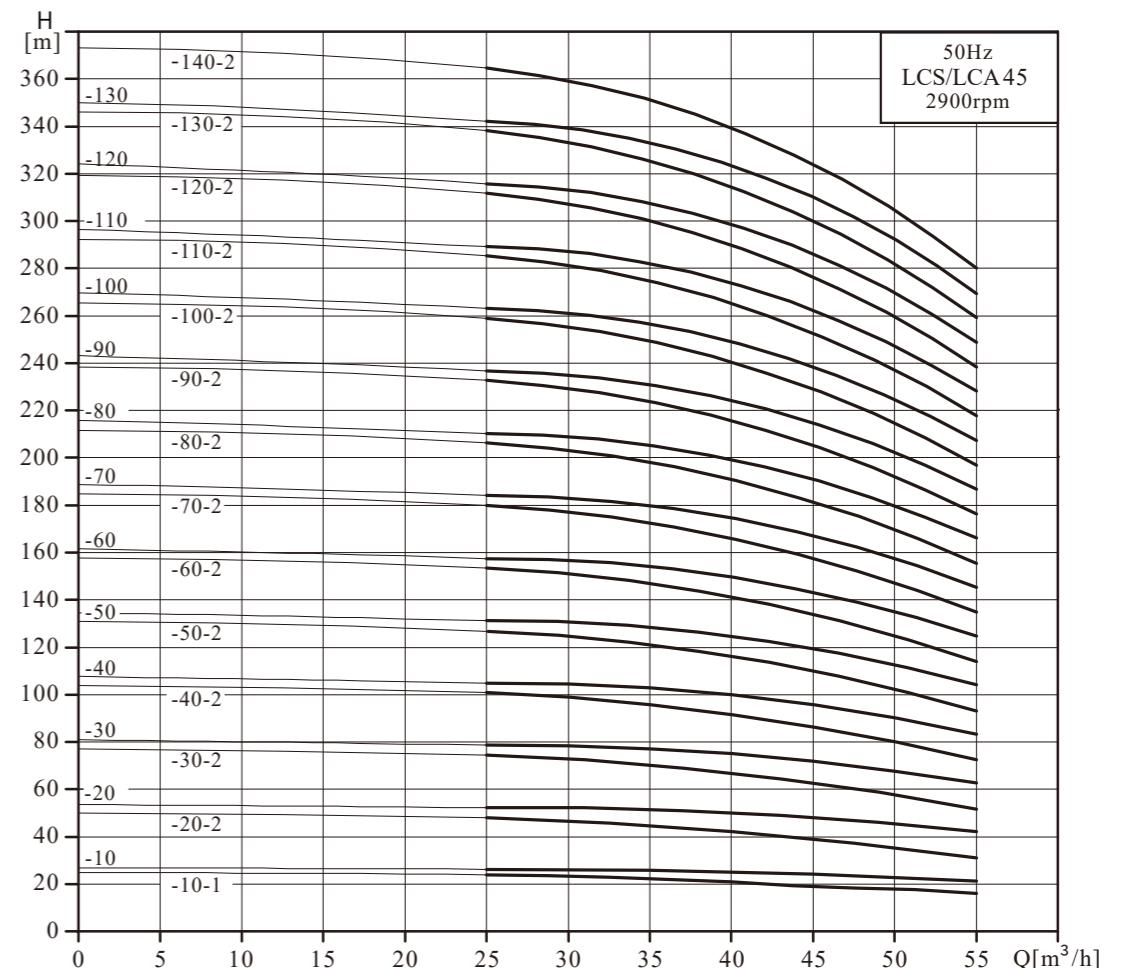
Installation dimensions and product weight



Model number	Sizes (mm)					Weights (kg)
	B1	B2	B1+B2	D1	D2	
LCS 45-10-1	507	410	917	230	185	84
LCS 45-10	516	465	981	260	210	108
LCS 45-20-2	596	465	1061	260	210	118
LCS 45-20	696	610	1306	350	260	174
LCS 45-30-2	776	610	1386	350	260	177
LCS 45-30	776	610	1386	350	260	186
LCS 45-40-2	856	610	1466	350	260	189
LCS 45-40	856	640	1496	350	260	210
LCS 45-50-2	936	640	1576	350	260	213
LCS 45-50	936	670	1606	360	285	247
LCS 45-60-2	1016	715	1731	400	310	322
LCS 45-60	1016	715	1731	400	310	322
LCS 45-70-2	1096	715	1811	400	310	324
LCS 45-70	1096	715	1811	400	310	324
LCS 45-80-2	1176	715	1891	400	310	341
LCS 45-80	1176	715	1891	400	310	341
LCS 45-90-2	1256	715	1971	400	310	344
LCS 45-90	1256	715	1971	400	310	344
LCS 45-100-2	1336	740	2076	460	340	417
LCS 45-100	1336	740	2076	460	340	418
LCS 45-110-2	1416	740	2156	460	340	420
LCS 45-110	1416	740	2156	460	340	420
LCS 45-120-2	1526	820	2346	550	370	527
LCS 45-120	1526	820	2346	550	370	527
LCS 45-130-2	1606	820	2426	550	370	529
LCS 45-130	1606	820	2426	550	370	529
LCS 45-140-2	1686	820	2506	550	370	532

Note: LCA is 6kg heavier than LCS in the same specification.

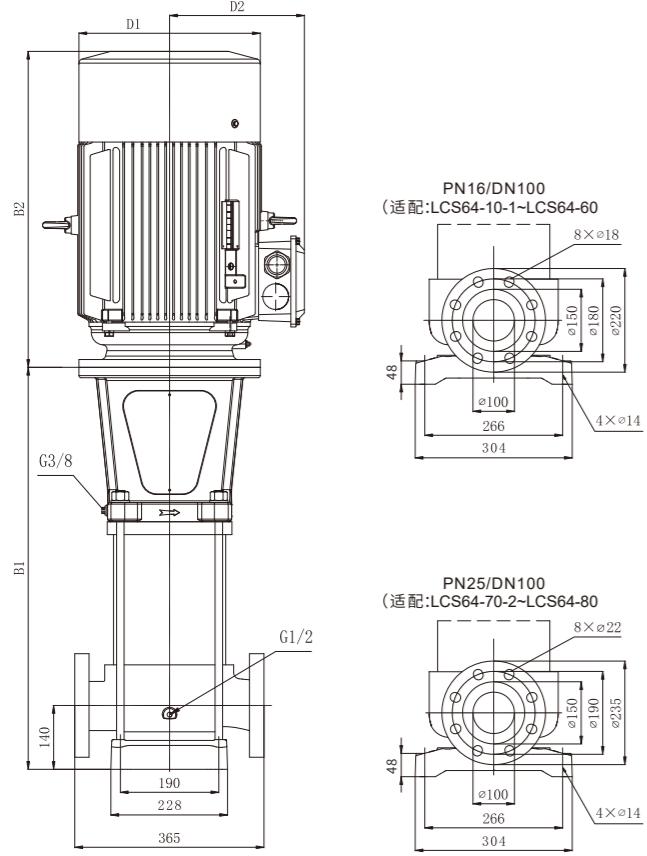
Performance curve



Operational performance data

Model number	Matching motor (kW)	Q (m³/h)	25	30	35	40	45	50	55
			H (m)						
LCS 45-10-1	4		24	23	22	21	19	18	16
LCS 45-10	5.5		26.5	26	25.5	25	23.5	22	21
LCS 45-20-2	7.5		48	46	44	42	39	35	31
LCS 45-20	11		53	52	51	49	48	45	41
LCS 45-30-2	11		74	72	69	67	63	57	52
LCS 45-30	15		79	78	76	74	71	67	62
LCS 45-40-2	15		101	98	95	91	87	80	72
LCS 45-40	18.5		105	104	102	99	95	90	83
LCS 45-50-2	18.5		127	124	120	116	110	102	93
LCS 45-50	22		132	130	127	124	119	112	104
LCS 45-60-2	30		153	150	146	141	134	125	114
LCS 45-60	30		158	156	153	148	143	134	124
LCS 45-70-2	30		180	176	171	166	158	147	135
LCS 45-70	30		184	182	178	173	166	157	145
LCS 45-80-2	37		206	202	197	190	182	169	155
LCS 45-80	37		210	208	204	198	190	179	166
LCS 45-90-2	37		232	228	222	215	205	192	176
LCS 45-90	37		237	234	229	222	214	202	186
LCS 45-100-2	45		258	254	248	240	229	214	197
LCS 45-100	45		263	260	255	247	238	224	207
LCS 45-110-2	45		285	280	273	264	253	237	217
LCS 45-110	45		289	285	280	272	261	246	228
LCS 45-120-2	55		311	306	299	289	277	259	238
LCS 45-120	55		316	311	305	296	285	269	248
LCS 45-130-2	55		337	331	324	314	300	281	259
LCS 45-130	55		342	337	331	321	309	291	269
LCS 45-140-2	55		364	357	349	338	324	304	279

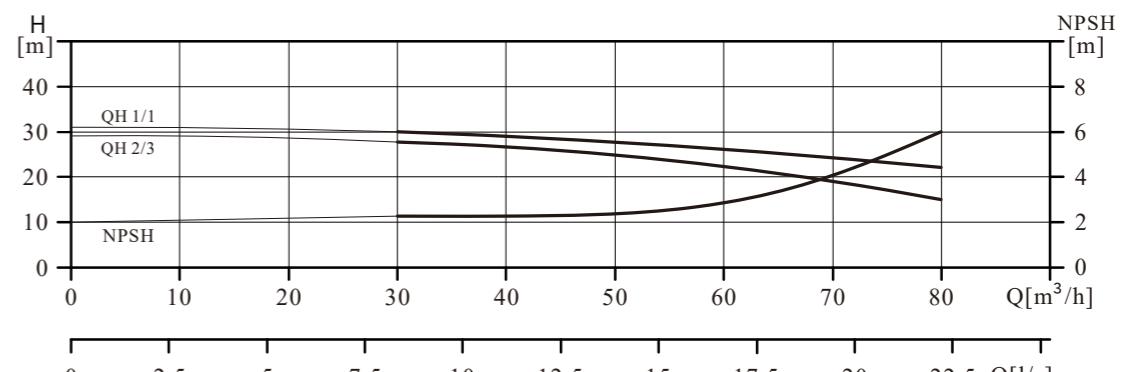
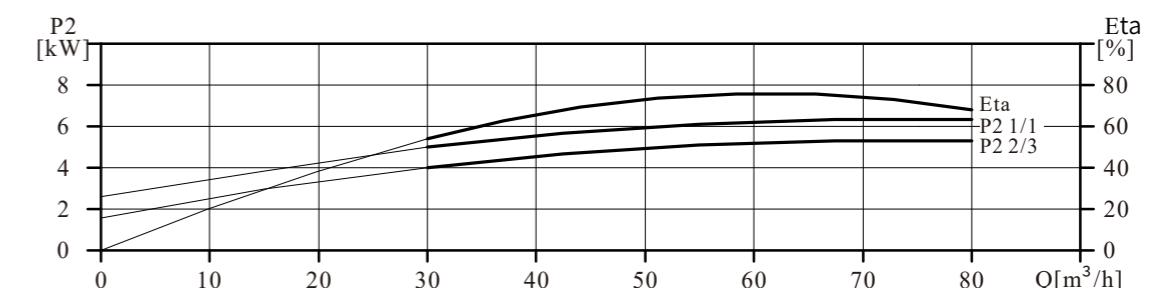
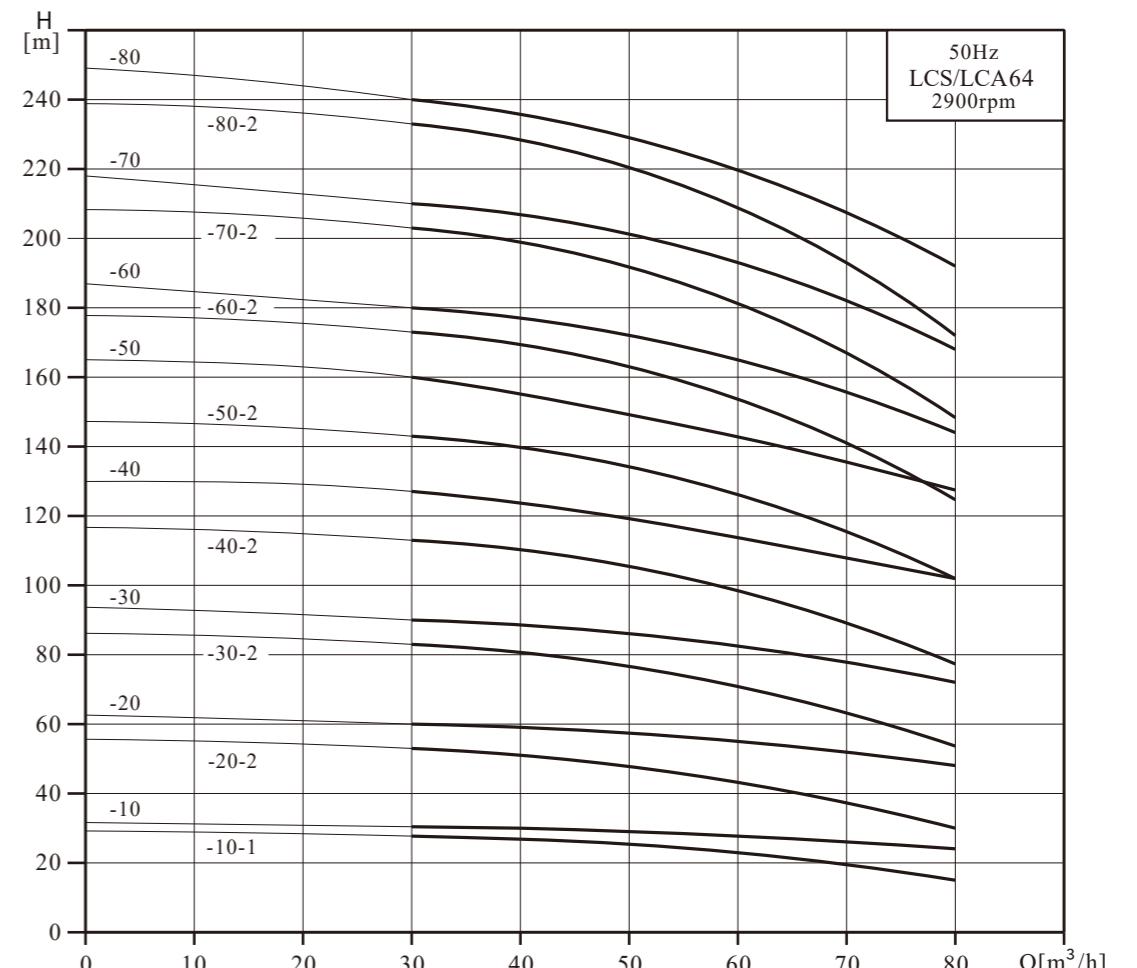
Installation dimensions and product weight



Model number	Sizes (mm)					Weights (kg)
	B1	B2	B1+B2	D1	D2	
LCS 64-10-1	519	465	984	260	210	110
LCS 64-10	519	465	984	260	210	120
LCS 64-20-2	702	610	1312	350	260	177
LCS 64-20	702	610	1312	350	260	184
LCS 64-30-2	785	640	1425	350	260	209
LCS 64-30	785	670	1455	360	285	243
LCS 64-40-2	868	715	1583	400	310	318
LCS 64-40	868	715	1583	400	310	318
LCS 64-50-2	951	715	1666	400	310	335
LCS 64-50	951	715	1666	400	310	335
LCS 64-60-2	1034	740	1774	460	340	409
LCS 64-60	1034	740	1774	460	340	409
LCS 64-70-2	1147	820	1967	550	370	516
LCS 64-70	1147	820	1967	550	370	516
LCS 64-80-2	1230	820	2050	550	370	519
LCS 64-80	1230	820	2050	550	370	519

Note: LCA is 6.5kg heavier than LCS in the same specification.

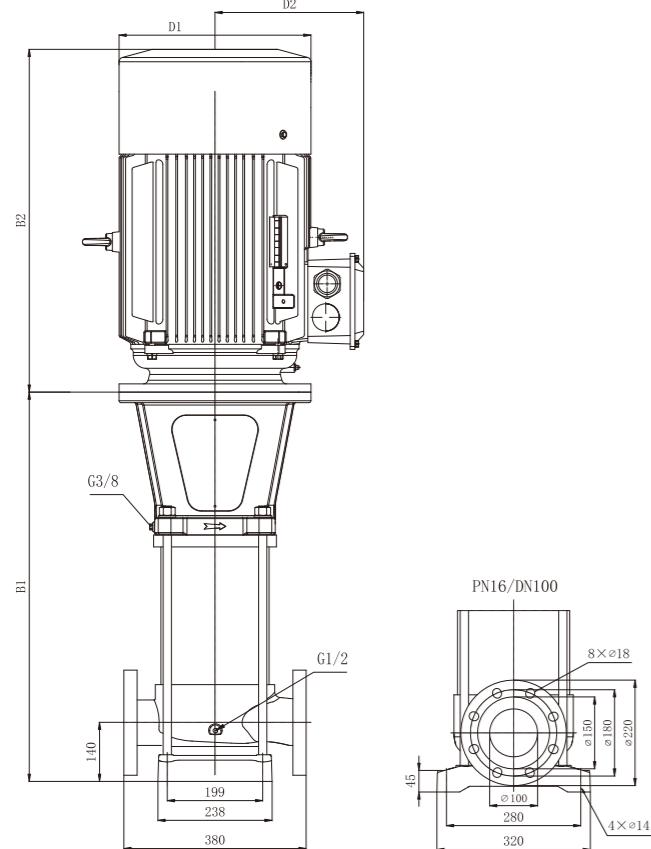
Performance curve



Operational performance data

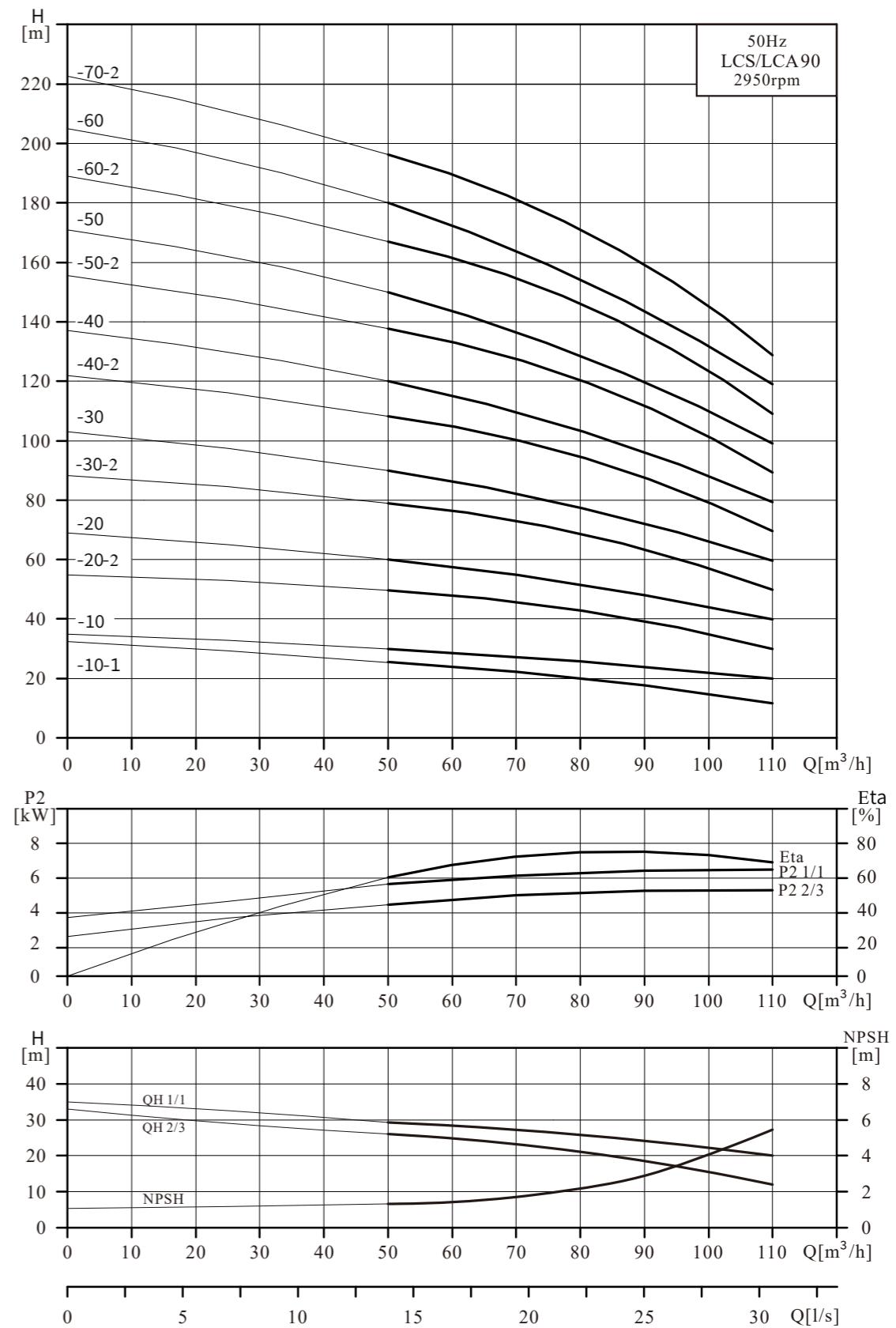
Model number	Matching motor (kW)	Q (m³/h)	H (m)						
			30	40	50	60	64	70	
LCS 64-10-1	5.5	27	25	23	21	20	18	15	
LCS 64-10	7.5	30	29.5	29	28	27	26	24	
LCS 64-20-2	11	53	51	47	43	41	37	30	
LCS 64-20	15	60	59	58	55	54	52	48	
LCS 64-30-2	18.5	83	81	76	71	68	63	54	
LCS 64-30	22	90	89	86	83	81	78	72	
LCS 64-40-2	30	113	110	105	98	95	89	78	
LCS 64-40	30	128	124	119	114	111	108	102	
LCS 64-50-2	37	143	140	133	126	122	115	102	
LCS 64-50	37	160	155	149	143	140	135	128	
LCS 64-60-2	45	173	170	162	153	149	141	126	
LCS 64-60	45	180	178	173	165	162	156	144	
LCS 64-70-2	55	203	199	191	181	176	167	150	
LCS 64-70	55	210	207	201	193	189	182	168	
LCS 64-80-2	55	233	229	220	208	203	193	174	
LCS 64-80	55	240	237	230	220	216	208	192	

Installation dimensions and product weight



Model number	Sizes (mm)					Weights (kg)
	B1	B2	B1+B2	D1	D2	
LCS 90-10-1	598	465	1063	260	210	125
LCS 90-10	628	610	1238	350	260	179
LCS 90-20-2	720	610	1330	350	260	189
LCS 90-20	720	640	1360	350	260	217
LCS 90-30-2	812	670	1482	360	285	248
LCS 90-30	812	715	1527	400	310	319
LCS 90-40-2	904	715	1619	400	310	322
LCS 90-40	904	715	1619	400	310	336
LCS 90-50-2	996	715	1711	400	310	339
LCS 90-50	996	740	1736	460	340	412
LCS 90-60-2	1118	740	1858	460	340	415
LCS 90-60	1118	820	1938	550	370	519
LCS 90-70-2	1210	820	2030	550	370	522

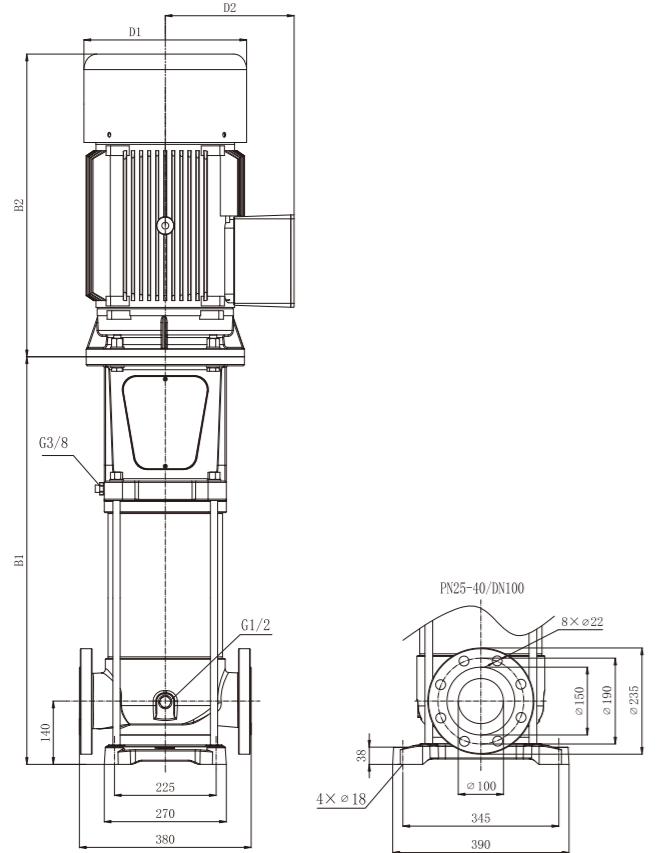
Performance curve



Operational performance data

Model number	Matching motor (kW)	H (m)	Q (m³/h)	50	60	70	80	90	100	110
LCS 90-10-1	7.5		25	24	22	21	19	16	12	
LCS 90-10	11		29	28	27	26	24	22	20	
LCS 90-20-2	15		53	50	47	44	40	36	30	
LCS 90-20	18.5		58	56	55	51	48	44	39	
LCS 90-30-2	22		82	78	74	70	64	58	50	
LCS 90-30	30		87	84	82	77	72	66	59	
LCS 90-40-2	30		111	106	102	95	88	80	69	
LCS 90-40	37		116	112	109	103	96	88	79	
LCS 90-50-2	37		140	134	129	121	112	102	89	
LCS 90-50	45		145	140	137	128	120	110	98	
LCS 90-60-2	45		169	162	156	147	136	124	109	
LCS 90-60	55		174	168	164	154	144	132	118	
LCS 90-70-2	55		198	190	184	172	160	146	128	

Installation dimensions and product weight

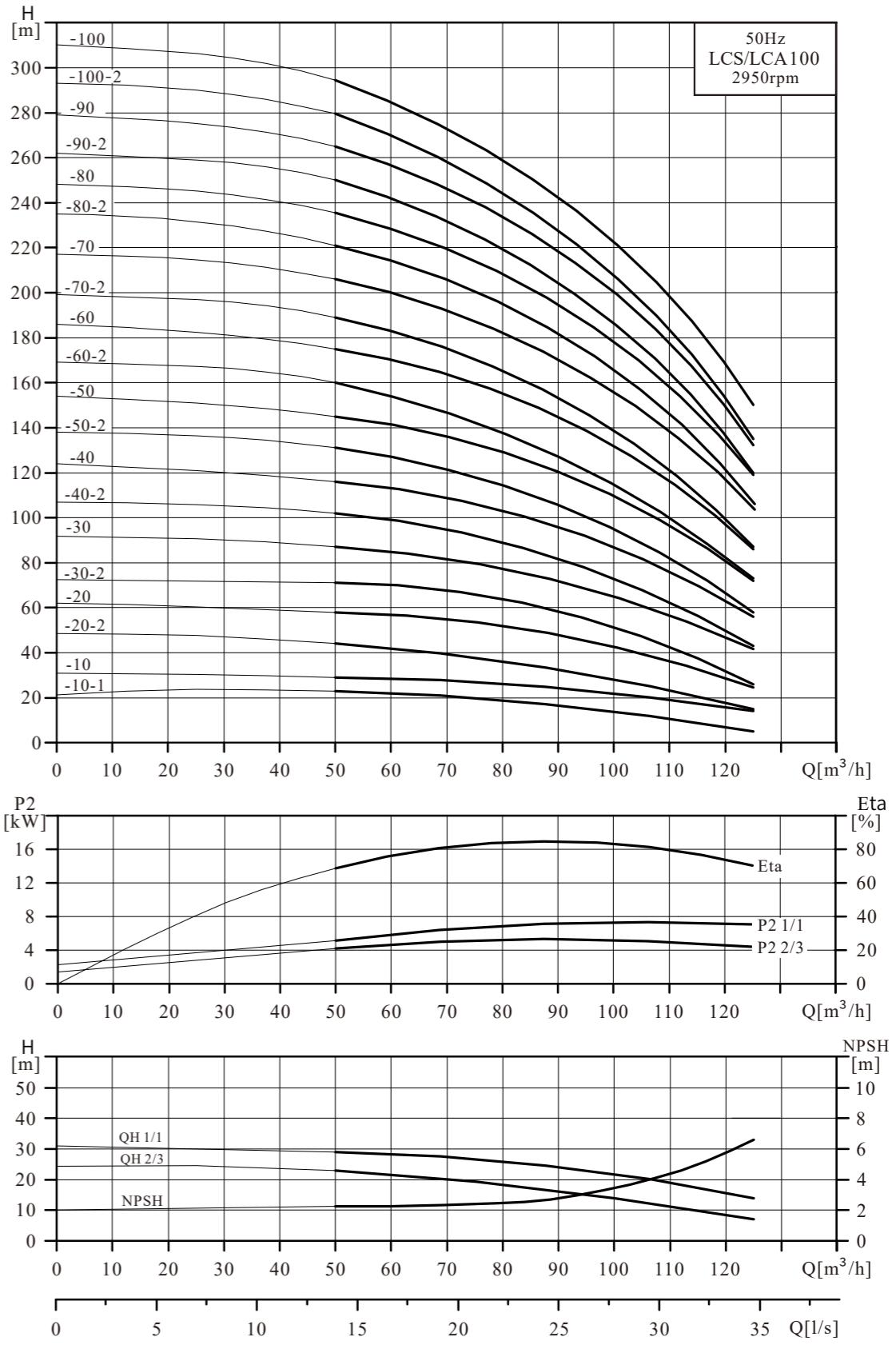


Model number	Sizes (mm)					Weights (kg)
	B1	B2	B1+B2	D1	D2	
LCS 100-10-1	592	465	1057	260	210	120
LCS 100-10	592	465	1057	260	210	127
LCS 100-20-2	797	610	1407	350	260	188
LCS 100-20	797	610	1407	350	260	195
LCS 100-30-2	902	640	1542	360	285	223
LCS 100-30	902	670	1572	360	285	256
LCS 100-40-2	1007	715	1722	400	310	332
LCS 100-40	1007	715	1722	400	310	332
LCS 100-50-2	1112	715	1827	400	310	351
LCS 100-50	1112	715	1827	400	310	351
LCS 100-60-2	1217	740	1957	460	340	431
LCS 100-60	1217	740	1957	460	340	431
LCS 100-70-2	1352	820	2172	550	370	540
LCS 100-70	1352	820	2172	550	370	540
LCS 100-80-2	1457	820	2277	550	370	545
LCS 100-80	1457	870	2327	580	410	660
LCS 100-90-2	1562	870	2432	580	410	665
LCS 100-90	1562	870	2432	580	410	665
LCS 100-100-2	1667	870	2537	580	410	671
LCS 100-100	1667	870	2537	580	410	671

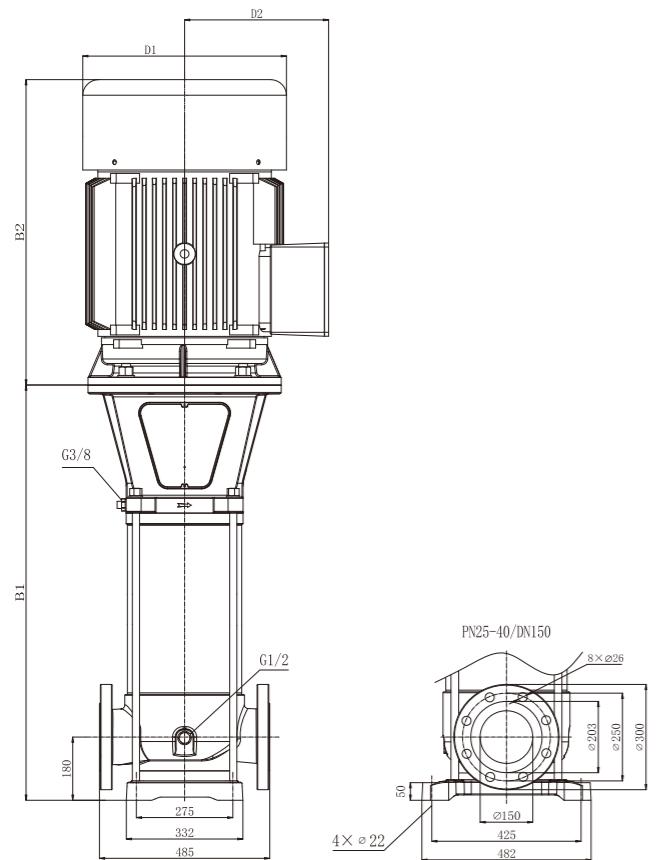
Operational performance data

Model number	Matching motor (kW)	Q (m³/h)	H (m)									
			50	60	70	80	90	100	110	120	125	
LCS 100-10-1	5.5	23	22	20	18	16	14	11	8	7		
LCS 100-10	7.5	29	28	27	26	24	22	18	16	14		
LCS 100-20-2	11	44	43	41	38	34	28	23	17	15		
LCS 100-20	15	58	56	54	52	49	43	37	31	28		
LCS 100-30-2	18.5	71	68	66	62	57	52	42	31	26		
LCS 100-30	22	87	84	81	78	73	65	56	48	43		
LCS 100-40-2	30	102	99	95	90	83	71	60	48	43		
LCS 100-40	30	116	113	109	104	97	87	76	64	58		
LCS 100-50-2	37	131	127	122	116	107	93	79	65	58		
LCS 100-50	37	145	141	136	130	122	109	96	80	72		
LCS 100-60-2	45	160	156	150	142	131	115	99	81	73		
LCS 100-60	45	175	170	164	157	146	132	115	96	89		
LCS 100-70-2	55	189	184	177	168	156	137	119	97	87		
LCS 100-70	55	206	202	193	183	172	156	138	114	105		
LCS 100-80-2	55	221	215	207	197	182	165	142	115	103		
LCS 100-80	75	235	231	221	209	197	178	158	130	120		
LCS 100-90-2	75	250	245	234	221	206	184	161	131	120		
LCS 100-90	75	265	260	248	235	221	201	177	147	135		
LCS 100-100-2	75	279	274	262	247	231	206	181	147	135		
LCS 100-100	75	294	289	279	261	246	223	197	163	150		

Performance curve



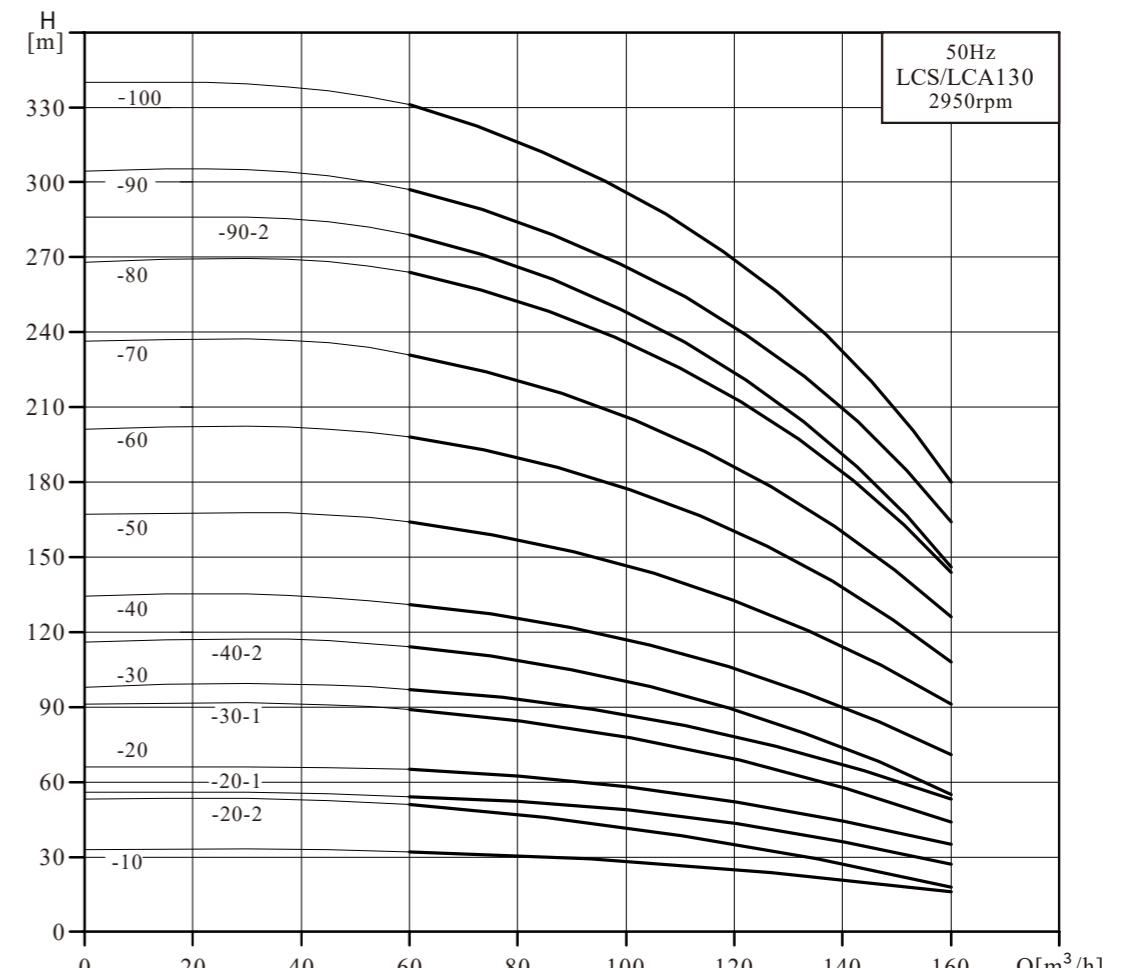
Installation dimensions and product weight



Model number	Sizes (mm)					Weights (kg)
	B1	B2	B1+B2	D1	D2	
LCS 130-10	787	610	1397	350	260	222
LCS 130-20-2	909	610	1519	350	260	238
LCS 130-20-1	909	640	1549	360	285	260
LCS 130-20	909	670	1579	360	285	292
LCS 130-30-1	1031	715	1746	400	310	371
LCS 130-30	1031	715	1746	400	310	385
LCS 130-40-2	1153	715	1868	400	310	394
LCS 130-40	1153	740	1893	460	340	465
LCS 130-50	1305	820	2125	550	370	581
LCS 130-60	1427	870	2297	580	410	704
LCS 130-70	1549	870	2419	580	410	713
LCS 130-80	1671	920	2591	580	410	768
LCS 130-90-2	1793	920	2713	580	410	778
LCS 130-90	1793	1060	2853	660	550	1169
LCS 130-100	1915	1060	2975	660	550	1178

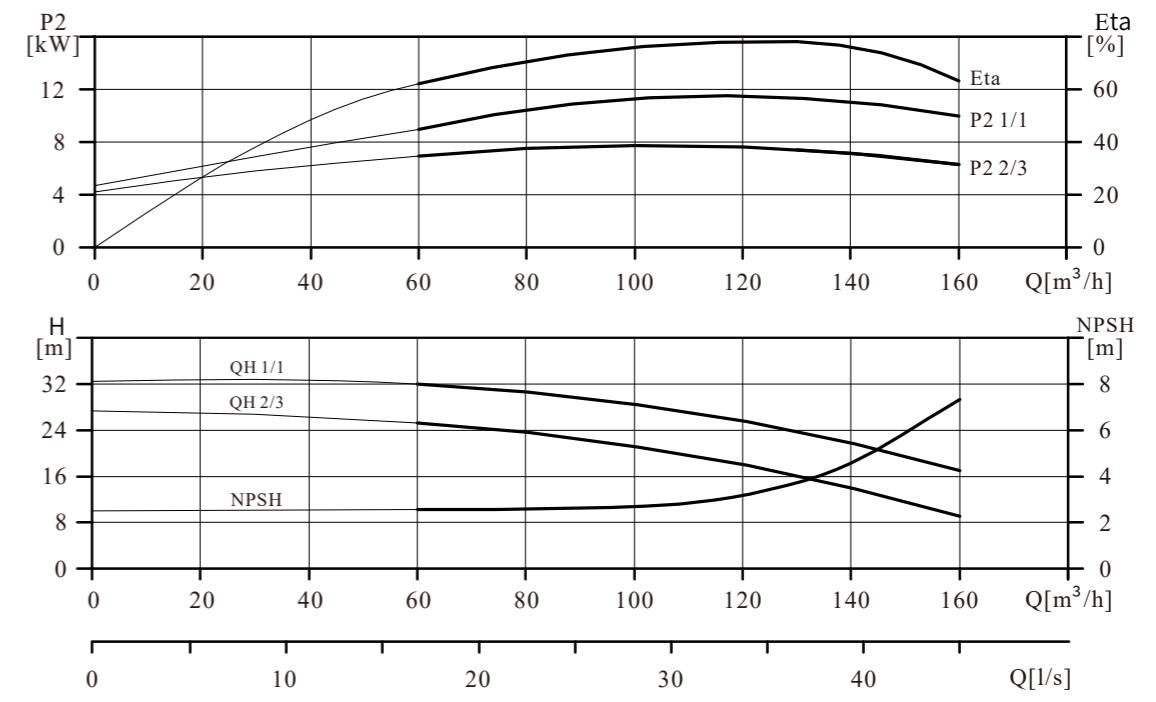
Note: LCA is 16.5kg heavier than LCS in the same specification.

Performance curve

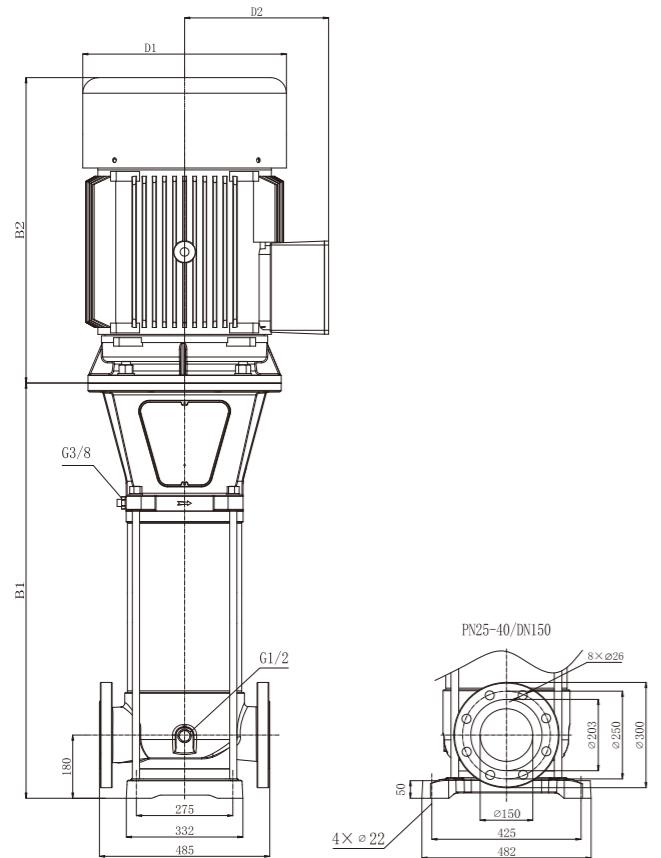


Operational performance data

Model number	Matching motor (kW)	H (m)	Q (m³/h)	60	70	80	90	100	110	120	130	140	150	160
LCS 130-10	11		32	31	30	29	28	27	25	23	22	20	17	
LCS 130-20-2	15		51	48	46	43	40	37	34	31	27	23	18	
LCS 130-20-1	18.5		54	52	51	50	49	47	45	40	35	31	27	
LCS 130-20	22		65	64	62	60	58	56	52	48	44	40	35	
LCS 130-30-1	30		89	87	85	82	78	74	70	64	58	51	44	
LCS 130-30	37		97	96	94	91	87	83	77	73	67	61	53	
LCS 130-40-2	37		114	111	108	104	98	94	89	81	74	64	55	
LCS 130-40	45		131	129	125	121	117	113	105	97	89	82	71	
LCS 130-50	55		164	162	158	152	147	142	133	124	114	103	91	
LCS 130-60	75		198	196	189	182	178	170	161	150	137	122	108	
LCS 130-70	75		231	227	222	218	209	199	187	174	159	144	126	
LCS 130-80	90		264	260	254	248	238	228	213	200	182	164	144	
LCS 130-90-2	90		279	274	269	261	250	239	224	208	188	168	146	
LCS 130-90	110		297	293	287	279	268	257	243	227	207	187	164	
LCS 130-100	110		331	325	318	311	298	284	270	250	230	207	182	

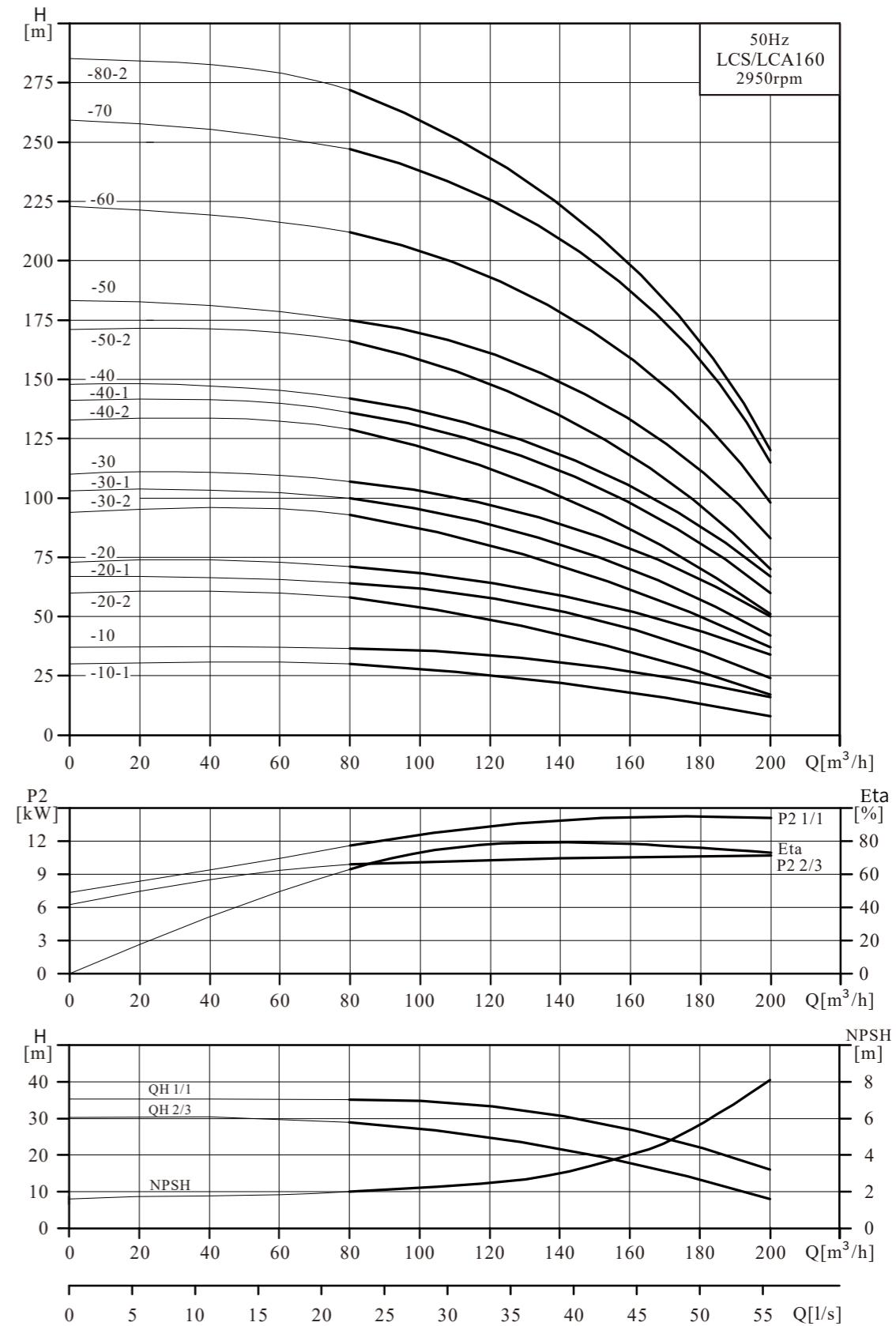


Installation dimensions and product weight



Model number	Sizes (mm)					Weights (kg)
	B1	B2	B1+B2	D1	D2	
LCS 160-10-1	787	610	1397	350	260	222
LCS 160-10	787	610	1397	350	260	229
LCS 160-20-2	909	670	1579	360	285	292
LCS 160-20-1	909	715	1624	400	310	362
LCS 160-20	909	715	1624	400	310	362
LCS 160-30-2	1031	715	1746	400	310	385
LCS 160-30-1	1031	740	1771	460	340	457
LCS 160-30	1031	740	1771	460	340	457
LCS 160-40-2	1183	820	2003	550	370	577
LCS 160-40-1	1183	820	2003	550	370	577
LCS 160-40	1183	870	2053	580	410	691
LCS 160-50-2	1305	870	2175	580	410	696
LCS 160-50	1305	870	2175	580	410	696
LCS 160-60	1427	920	2347	580	410	752
LCS 160-70	1549	1060	2609	660	550	1152
LCS 160-80-2	1671	1060	2731	660	550	1161

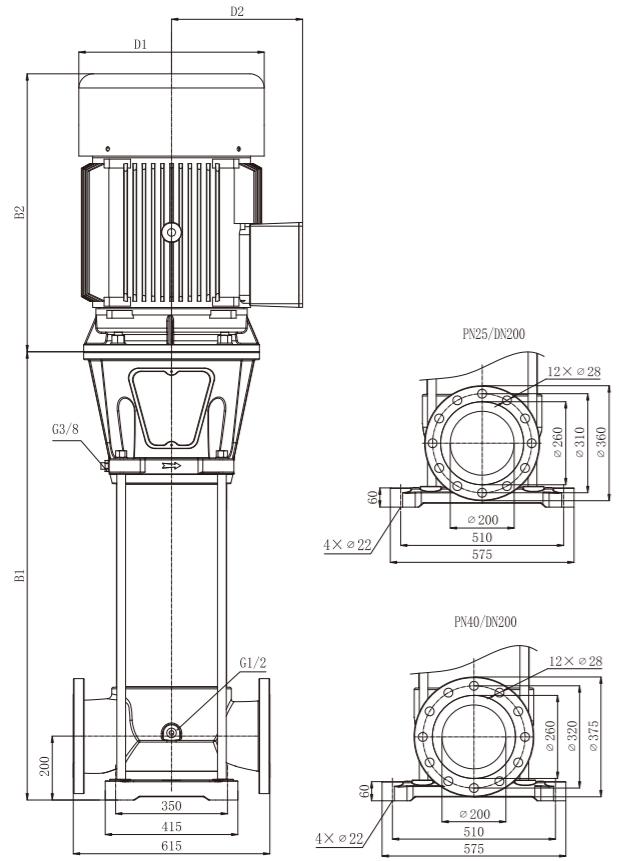
Performance curve



Operational performance data

Model number	Matching motor (kW)	Q (m³/h)	H (m)											
			80	90	100	110	120	130	140	150	160	170	180	190
LCS 160-10-1	11	29	28	27	26	25	23	21	20	18	16	14	11	8
LCS 160-10	15	35	34	33	32	31	30	29	28	27	24	21	19	16
LCS 160-20-2	22	58	56	54	51	48	45	42	39	35	31	27	22	17
LCS 160-20-1	30	64	62	60	58	56	53	50	48	45	40	35	30	24
LCS 160-20	30	71	68	67	66	64	61	58	55	52	48	44	39	34
LCS 160-30-2	37	93	91	89	85	81	77	72	67	61	55	49	43	37
LCS 160-30-1	45	100	96	94	92	89	84	79	75	70	64	58	50	42
LCS 160-30	45	107	103	101	99	96	93	90	85	79	73	66	58	50
LCS 160-40-2	55	129	124	121	117	112	106	100	94	87	79	71	61	51
LCS 160-40-1	55	136	133	130	126	122	117	112	105	98	90	81	70	60
LCS 160-40	75	142	137	134	131	128	123	118	112	105	97	88	78	67
LCS 160-50-2	75	166	163	159	154	148	142	135	127	118	108	96	83	70
LCS 160-50	75	175	173	171	168	164	158	151	142	133	122	111	97	83
LCS 160-60	90	212	209	205	201	196	190	181	171	159	147	133	115	98
LCS 160-70	110	247	244	241	236	231	222	212	200	188	171	154	135	115
LCS 160-80-2	110	272	267	262	256	249	238	226	213	198	180	161	141	120

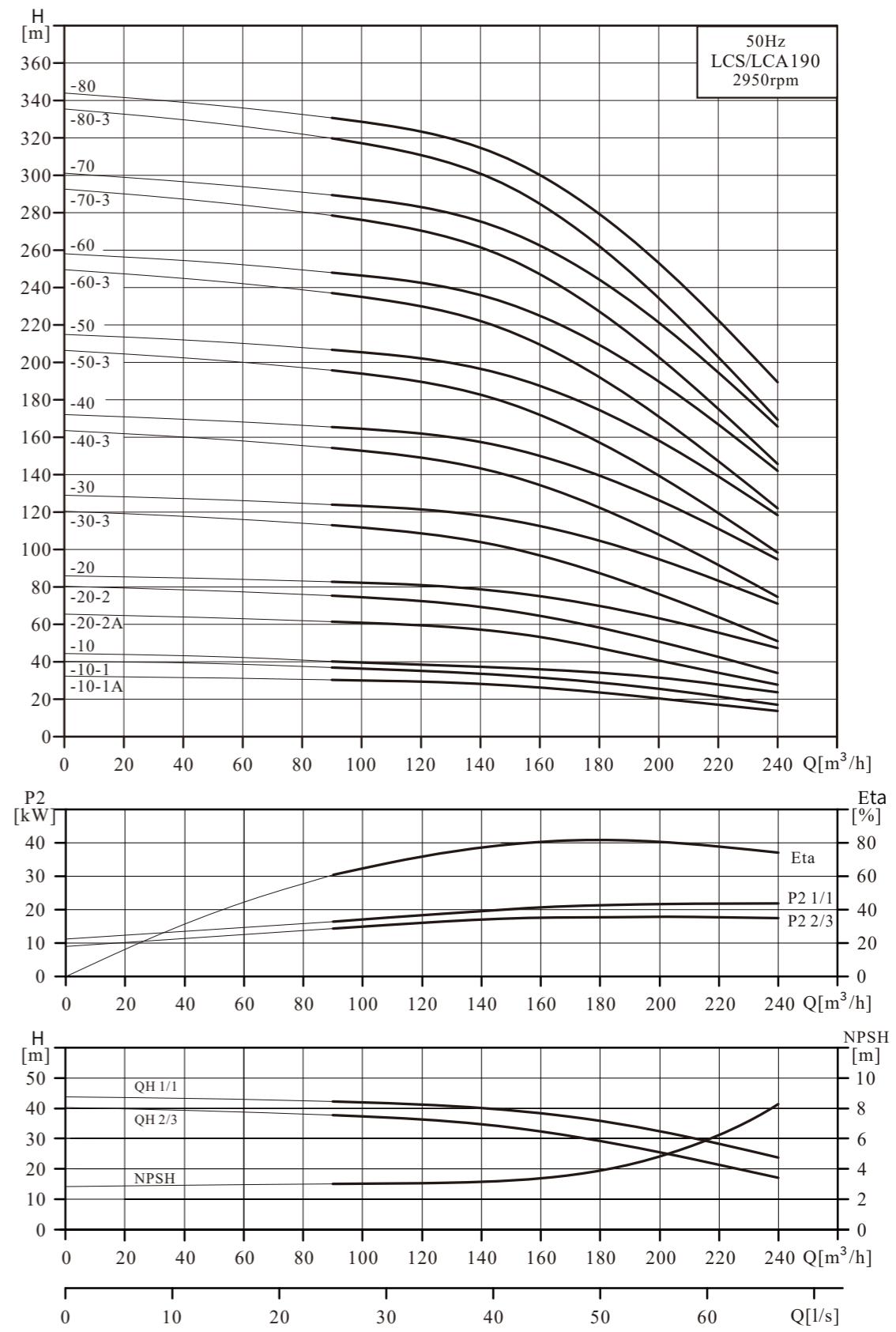
Installation dimensions and product weight



Model number	Sizes (mm)					Weights (kg)
	B1	B2	B1+B2	D1	D2	
LCS 190-10-1A	854	610	1464	350	260	290
LCS 190-10-1	854	640	1494	350	260	312
LCS 190-10	854	670	1524	360	285	344
LCS 190-20-2A	986	715	1701	400	310	426
LCS 190-20-2	986	670	1656	400	310	440
LCS 190-20	1006	740	1746	460	340	510
LCS 190-30-3	1140	820	1960	550	370	633
LCS 190-30	1140	870	2010	580	410	747
LCS 190-40-3	1268	870	2138	580	410	759
LCS 190-40	1268	920	2188	580	410	805
LCS 190-50-3	1420	1060	2480	660	550	1212
LCS 190-50	1420	1060	2480	660	550	1212
LCS 190-60-3	1548	1225	2773	660	550	1260
LCS 190-60	1548	1225	2773	660	550	1260
LCS 190-70-3	1676	1225	2901	660	550	1333
LCS 190-70	1676	1225	2901	660	550	1333
LCS 190-80-3	1804	1380	3184	660	550	1441
LCS 190-80	1804	1380	3184	660	550	1441

Note: LCA is 28.7kg heavier than LCS in the same specification.

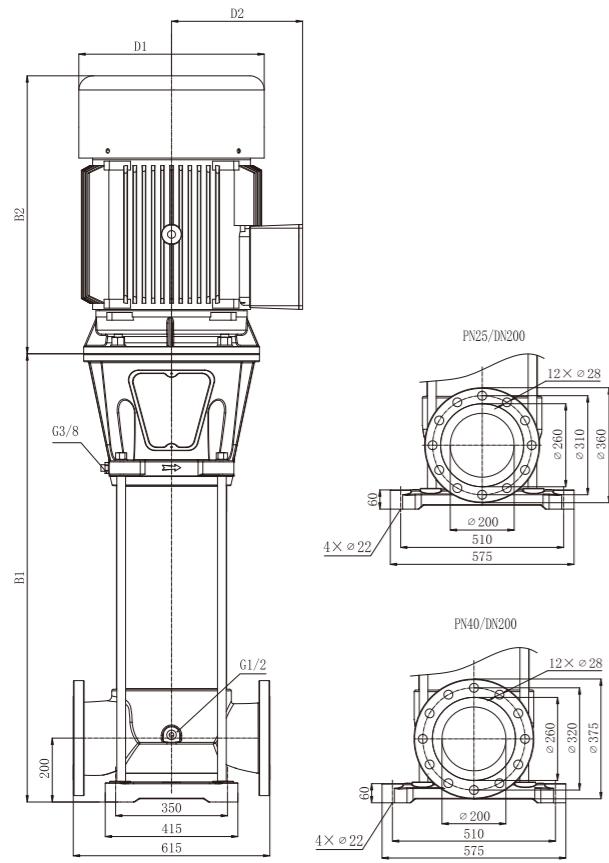
Performance curve



Operational performance data

Model number	Matching motor (kW)	Q (m³/h)	90	120	140	160	180	190	200	220	240
LCS 190-10-1A	15		30	29	28	26	24	22	20	17	14
LCS 190-10-1	18.5	38	36	35	33	29	27	25	21	17	
LCS 190-10	22	40	38	37	36	34	33	31	28	24	
LCS 190-20-2A	30	61	59	56	53	48	44	41	34	28	
LCS 190-20-2	37	75	72	69	65	59	55	51	42	34	
LCS 190-20	45	83	81	79	76	70	67	63	55	47	
LCS 190-30-3	55	113	109	104	98	88	82	76	64	51	
LCS 190-30	75	124	121	118	114	105	100	95	82	71	
LCS 190-40-3	75	154	149	143	136	123	115	108	91	75	
LCS 190-40	90	165	161	157	152	140	133	127	109	95	
LCS 190-50-3	110	196	189	183	174	158	149	139	118	98	
LCS 190-50	110	207	202	197	190	175	167	158	137	118	
LCS 190-60-3	132	237	230	222	212	193	182	171	146	122	
LCS 190-60	132	248	242	236	228	210	200	190	164	142	
LCS 190-70-3	160	278	270	261	250	228	215	203	173	146	
LCS 190-70	160	289	282	275	266	245	233	222	191	166	
LCS 190-80-3	200	320	310	301	288	263	249	234	200	169	
LCS 190-80	200	331	323	315	304	280	267	253	219	189	

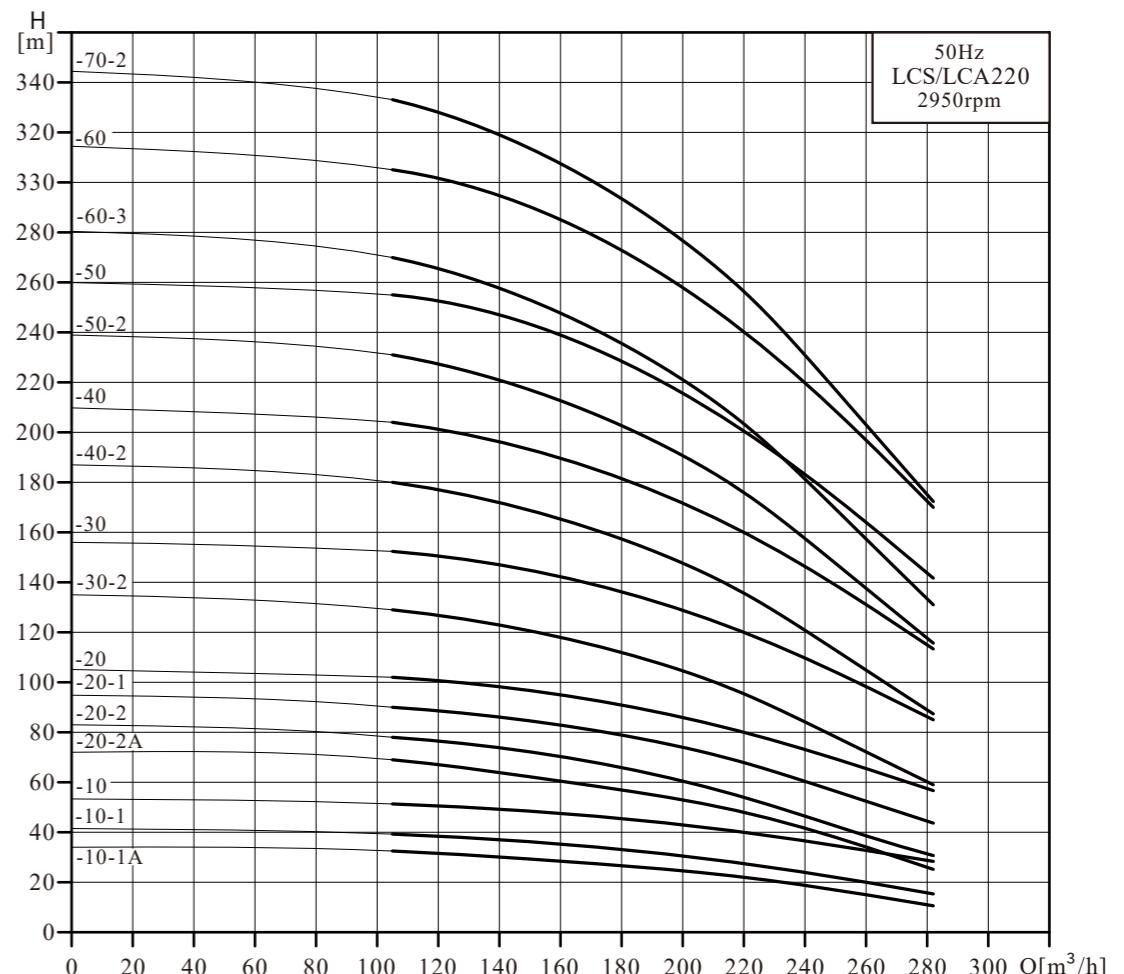
Installation dimensions and product weight



Model number	Sizes (mm)					Weights (kg)
	B1	B2	B1+B2	D1	D2	
LCS 220-10-1A	861	640	1501	350	260	313
LCS 220-10-1	861	670	1531	360	285	345
LCS 220-10	861	715	1576	400	310	429
LCS 220-20-2A	989	715	1704	400	310	442
LCS 220-20-2	989	740	1729	460	340	511
LCS 220-20-1	1019	820	1839	550	370	521
LCS 220-20	1019	870	1889	580	410	735
LCS 220-30-2	1147	870	2017	580	410	748
LCS 220-30	1147	920	2067	580	410	794
LCS 220-40-2	1275	1060	2335	660	550	1201
LCS 220-40	1275	1225	2500	660	550	1236
LCS 220-50-2	1403	1225	2628	660	550	1249
LCS 220-50	1403	1225	2628	660	550	1308
LCS 220-60-3	1531	1225	2756	660	550	1322
LCS 220-60	1531	1380	2911	660	550	1417
LCS 220-70-2	1659	1380	3039	660	550	1430

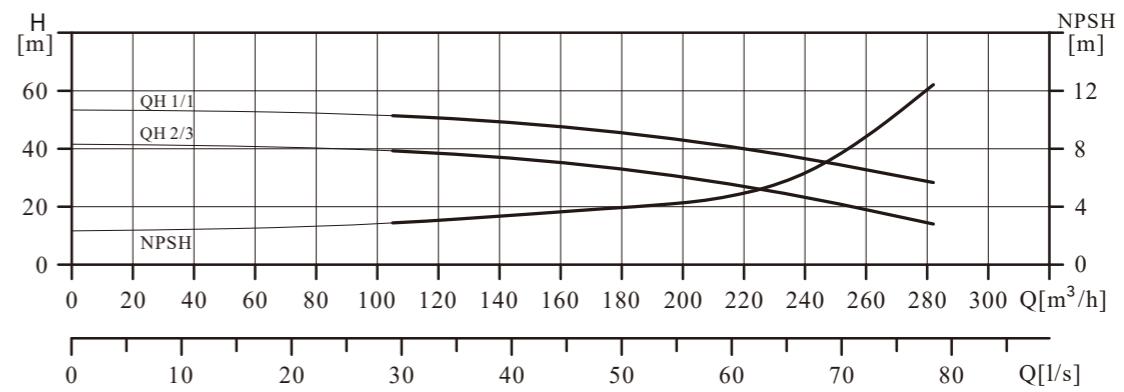
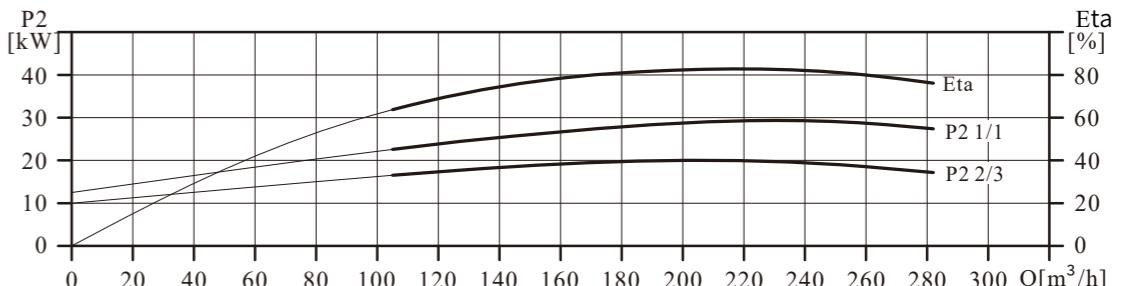
Note: LCA is 28.7kg heavier than LCS in the same specification.

Performance curve

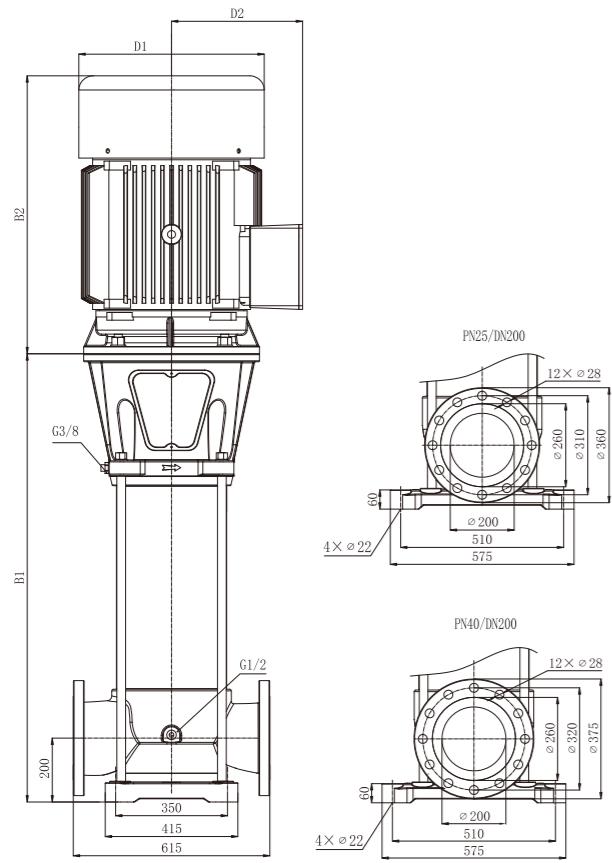


Operational performance data

Model number	Matching motor (kW)	H (m)	Q (m³/h)	105	120	140	160	180	200	220	240	260	280	282
LCS 220-10-1A	18.5		33	31	30	28	26	24	22	18	15	13	11	
LCS 220-10-1	22		39	38	37	35	33	30	27	24	20	16	15	
LCS 220-10	37		51	50	49	48	46	43	40	37	33	29	28	
LCS 220-20-2A	37		69	66	63	60	57	52	48	40	34	27	25	
LCS 220-20-2	45		78	77	74	70	66	60	54	47	40	32	31	
LCS 220-20-1	55		90	89	86	83	79	73	67	60	53	45	44	
LCS 220-20	75		102	101	98	95	91	87	80	73	66	58	57	
LCS 220-30-2	75		129	127	123	118	112	103	94	84	73	60	59	
LCS 220-30	90		153	151	147	143	137	130	120	110	99	87	85	
LCS 220-40-2	110		180	177	172	165	157	147	134	121	106	89	87	
LCS 220-40	132		204	201	196	191	183	173	160	147	132	116	113	
LCS 220-50-2	132		231	228	221	213	203	190	174	157	139	118	116	
LCS 220-50	160		255	252	245	238	228	217	200	183	165	145	142	
LCS 220-60-3	160		270	266	258	248	236	220	201	181	159	134	131	
LCS 220-60	200		306	302	294	286	274	260	240	220	198	174	170	
LCS 220-70-2	200		333	328	319	308	294	277	254	231	205	176	172	



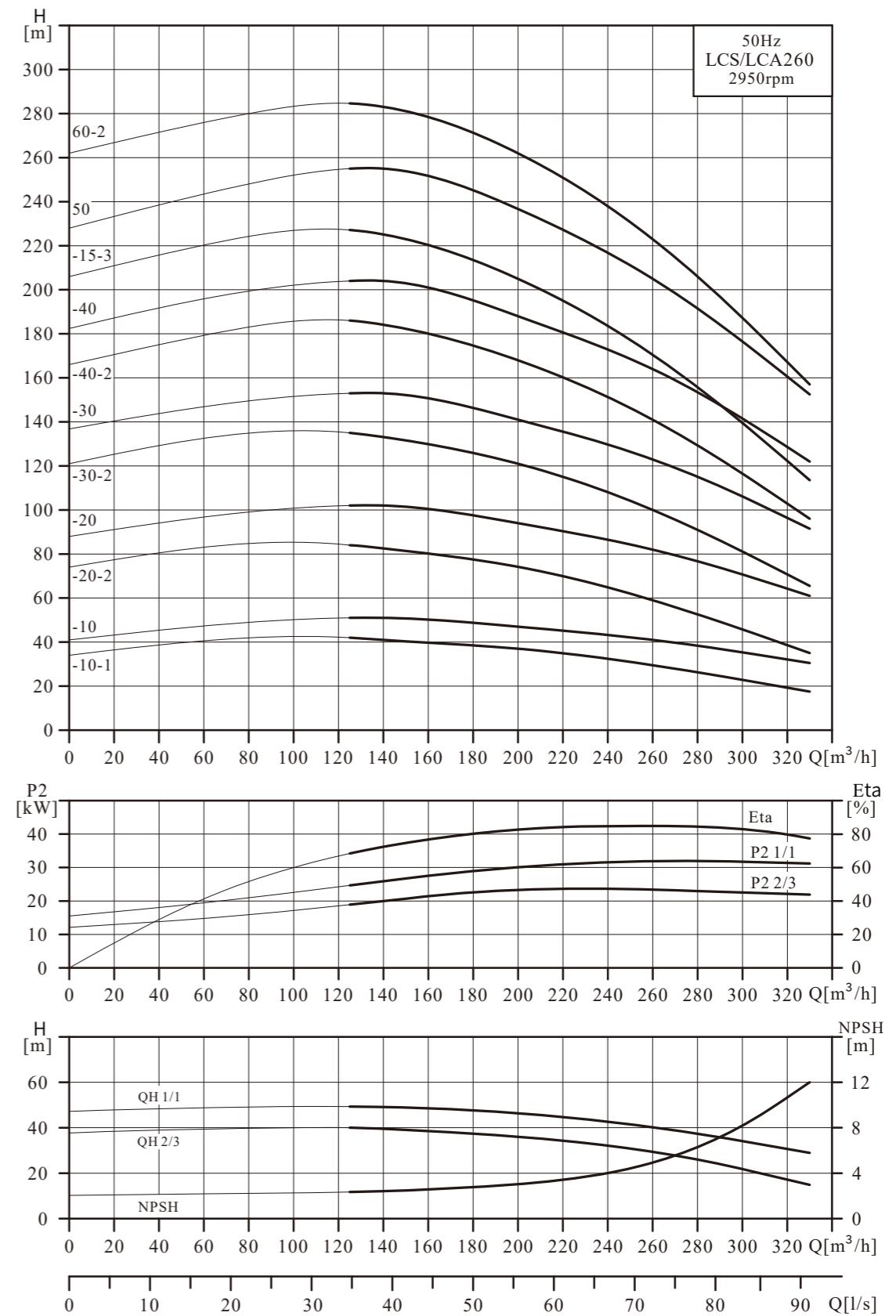
Installation dimensions and product weight



Model number	Sizes (mm)					Weights (kg)
	B1	B2	B1+B2	D1	D2	
LCS 260-10-1	876	715	1591	400	310	433
LCS 260-10	876	740	1616	460	340	516
LCS 260-20-2	1039	820	1859	550	370	633
LCS 260-20	1039	870	1909	580	410	748
LCS 260-30-2	1172	920	2092	580	410	823
LCS 260-30	1172	1060	2232	660	550	1219
LCS 260-40-2	1305	1225	2530	660	550	1272
LCS 260-40	1305	1225	2530	660	550	1333
LCS 260-50-3	1438	1225	2663	660	550	1351
LCS 260-50	1438	1380	2818	660	550	1447
LCS 260-60-2	1571	1380	2951	660	550	1465

Note: LCA is 28.7kg heavier than LCS in the same specification.

Performance curve



Operational performance data

Model number	Matching motor (kW)	H (m)	Q (m³/h)	125	140	160	180	200	220	240	260	280	300	320	330
LCS 260-10-1	30		42	41	40	38.5	37	34.5	32	29.5	26.5	23	19.5	17.5	
LCS 260-10	45		51	51	50	48.5	47	45	43	41	38	35	32	30.5	
LCS 260-20-2	55		84	82	80	77	74	69	64	59	53	46	39	35	
LCS 260-20	75		102	102	100	97	94	90	86	82	76	70	64	61	
LCS 260-30-2	90		135	133	130	125.5	121	114	107	100	91	81	71	65.5	
LCS 260-30	110		153	153	150	145.5	141	135	129	123	114	105	96	91.5	
LCS 260-40-2	132		186	184	180	174	168	159	150	141	129	116	103	96	
LCS 260-40	160		204	204	200	194	188	180	172	164	152	140	128	122	
LCS 260-50-3	160		228	225	220	212.5	205	193.5	182	170.5	155.5	139	122.5	113.5	
LCS 260-50	200		255	255	250	242.5	235	225	215	205	190	175	160	152.5	
LCS 260-60-2	200		285	283	278	271	262	249	236	223	205	186	167	157	

Recommended liquids for pumps

Stainless steel vertical multi-stage pumps can transport thin, clean, non-flammable and explosive media without solid particles or fibers, of which LCS can transport mildly corrosive media, LCA can transport non-corrosive media, please refer to the appendix table for details. The table recommended part of the liquid with, there are not exhaustive please consult our company again. The content of the table is for reference only, in the actual process of selecting the pump, please also note that the other characteristics of the liquid, such as the density of the liquid, freezing point, viscosity, and explosion-proof, protection level requirements, as well as the pressure and temperature of the environment also need to be taken into account, and can not be a substitute for the actual use of the working environment in a particular application and testing.

Liquid Recommendations

Conveying liquids	Liquid concentration temperature	LCA (foundry iron)			LCS (stainless steels)		
		EPDM	VITON	NBR	EPDM	VITON	NBR
Acetic acid (CH ₃ COOH)	5%,20°C				✓		
Benzoic acid C ₆ H ₅ COOH	50%,20°C					✓	
Slaked lime	20%,40°C				✓		
Chromate	1%,20°C						✓
Borax	10%,50°C						✓
Corn oil	100%,80°C					✓	
Ethanol (alcohol)	100%,20°C		✓				
Glycol	50%,50°C				✓		
Glycerol	50%,50°C						✓
Isopropanol	100%,20°C			✓			
Lactic acid	100%,20°C					✓	
Methanol (wood spirit)	100%,20°C			✓			
Diesel	80°C						✓
Oxalic acid C ₂ H ₂ O ₄	1%,20°C				✓		
Sodium pyrophosphate	20%,20°C				✓		
Potassium carbonate	20%,50°C					✓	
Potassium permanganate	5%,20°C			✓			
Sodium bicarbonate	10%,60°C					✓	
Sodium nitrate	10%,60°C					✓	
Sodium phosphate	10%,60°C					✓	
Sodium sulfate	10%,60°C					✓	
Citrate	20%,50°C				✓		
Salicylate	0.1%,20°C				✓		
Caustic soda	20%,50°C	✓					
Ammonia	30%,80°C				✓		
Calcium acetate	30%,50°C					✓	

FAGGIOLATI®
Always Be Better