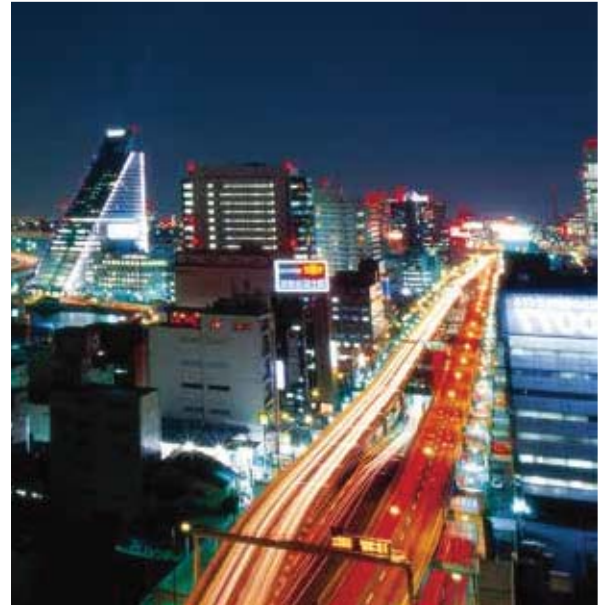


DOOCH PUMP



VERTICAL MULTISTAGE CENTRIFUGAL PUMP

50Hz XR/XRL SERIES



- Water supply system
- Washing system
- Industrial plants
- Cooling and air conditioning system
- Boiler feed system
- sprinkler

CONTENTS

XR/XRL SERIES VERTICAL MULTISTAGE CENTRIFUGAL PUMP

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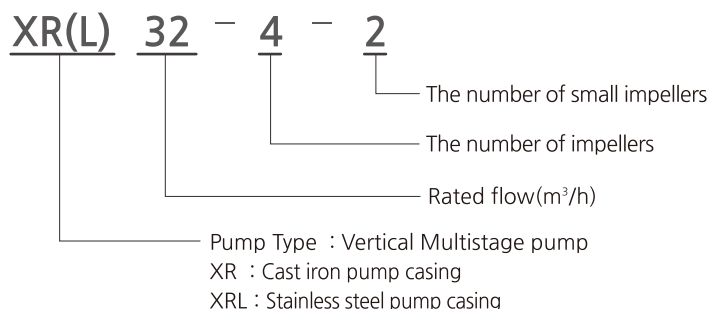
Feature

XR, XRL pumps are vertical non-self priming multistage centrifugal pump of in-line design, which is driven by a standard electric motor. The motor output shaft directly connects with the pump shaft through a coupling. The pressure-resistant cylinder and flow passage components are fixed between the pump head and the pump casing by means of staybolts. The pump casing has suction and discharge ports on the same level (in-line).

All pumps are equipped with a cartridge mechanical seal for easy maintenance.

XR, XRL pumps are available in various sizes and various numbers of stage to provide the flow and pressure required. The pumps are available with DOOCH variable frequency drive (NQ/XQ/NSQ Drive).

Definition of Model



Motor

Full-enclosed fan cooled two-pole standard motor

Protection class : IP55

Insulation class : F

Standard voltage : 50Hz : 1×220-230 / 240V

3×200-220 / 346-380V

3×220-240 / 380-415V

3×380-415V



Pumping Liquid

- Pumped liquids :
Thin, clean, non-flammable and non-explosive liquid containing no solid granules and fibers.
- Liquid temperature : Normal temperature : -15℃~+70℃
Hot water type : +70℃~+120℃
- Ambient temperature : up to +40℃
- Altitude : up to 1000m

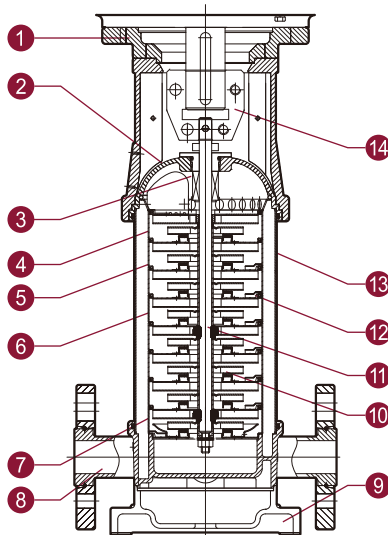
Application

The pumps are suitable for liquid transfer in

- Water supply systems
- Washing systems
- Cooling and air conditioning systems
- Water treatment systems
- Fire fighting systems
- Industrial plants
- Boiler feed systems

Sectional Drawing

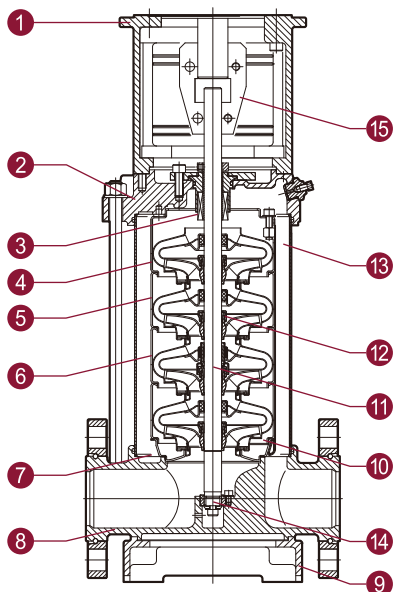
XR(L)1, 3, 5, 10, 15, 20



NO.	PARTS	MATERIAL	EN/DIN	AISI/ASTM
1	Motor bracket	Cast iron	EN-GJL-200	ASTM25B
3	Mechanical seal	Cartridge type		
4	Top diffuser	Stainless steel	1,4301	AISI304
5	Diffuser	Stainless steel	1,4301	AISI304
6	Support diffuser	Stainless steel	1,4301	AISI304
7	Inducer	Stainless steel	1,4301	AISI304
9	Base	Cast iron	EN-GJL-200	ASTM25B
10	Impeller	Stainless steel	1,4301	AISI304
11	Shaft	Stainless steel	1,4301/1,4401	AISI304
12	Impeller sleeve	Stainless steel	1,4301	AISI304
13	Cylinder	Stainless steel	1,4301	AISI304
14	Coupling	Carbon steel		
	Rubber part	NBR or FKM		
XR				
2	Pump Head	Cast iron	EN-GJL-200	ASTM25B
8	Pump casing	Cast iron	EN-GJL-200	ASTM25B
XRL				
2	Pump Head	Stainless steel	1,4301	AISI304
8	Pump casing	Stainless steel	1,4301	AISI304

* AISI316(Optional)

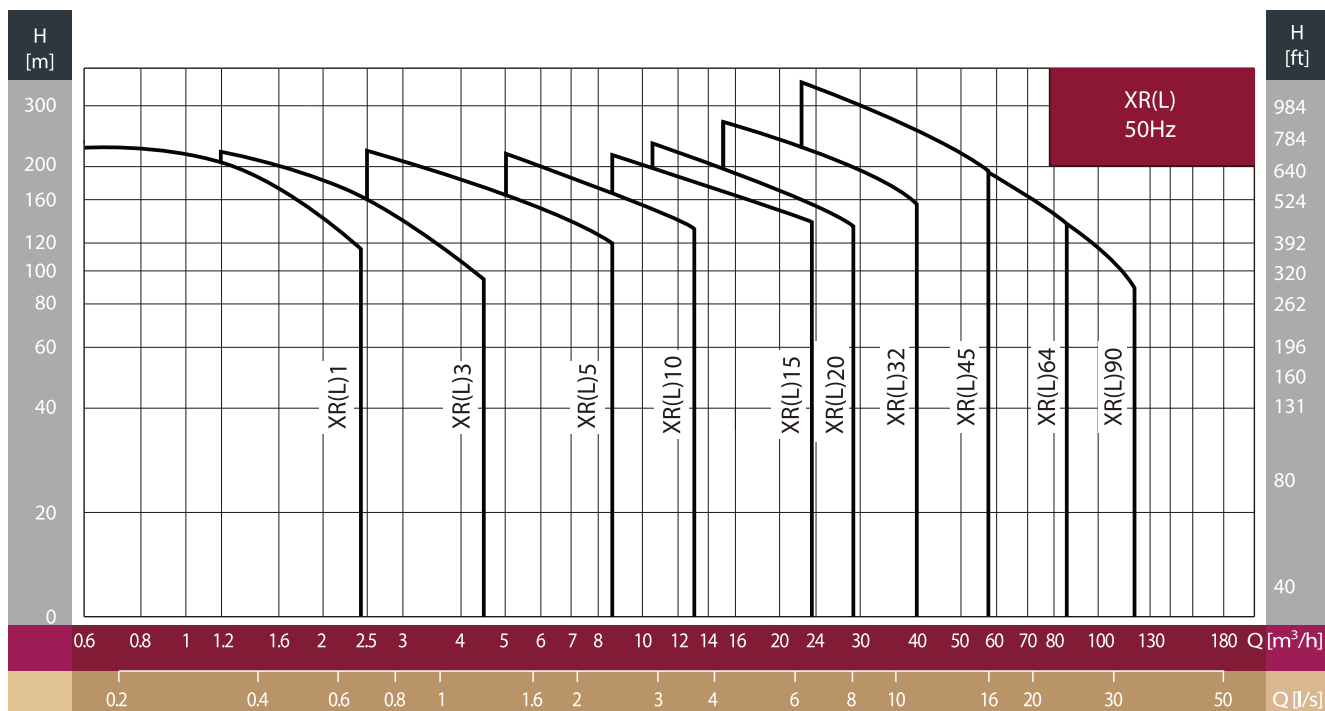
XR(L)32, 45, 64, 90



NO.	PARTS	MATERIAL	EN/DIN	AISI/ASTM
1	Motor bracket	Cast iron	EN-GJL-200	ASTM25B
3	Mechanical seal	Cartridge type		
4	Top diffuser	Stainless steel	1,4301	AISI304
5	Support diffuser	Stainless steel	1,4301	AISI304
6	Diffuser	Stainless steel	1,4301	AISI304
7	Inducer	Stainless steel	1,4301	AISI304
9	Base	Cast iron	EN-GJL-200	ASTM25B
10	Impeller	Stainless steel	1,4301	AISI304
11	Shaft	Stainless steel		AISI304
12	Intermediate Bearing	Tungsten carbide		
13	Cylinder	Stainless steel	1,4301/1,4401	AISI304
14	Bottom Bearing	Tungsten carbide		
15	Coupling	Carbon steel		
	Rubber part	NBR		
XR				
2	Pump Head	Cast iron	EN-GJL-200	ASTM25B
8	Pump casing	Cast iron	EN-GJL-200	ASTM25B
XRL				
2	Pump Head	Stainless steel	1,4301	AISI304
8	Pump casing	Stainless steel	1,4301	AISI304

* AISI316(Optional)

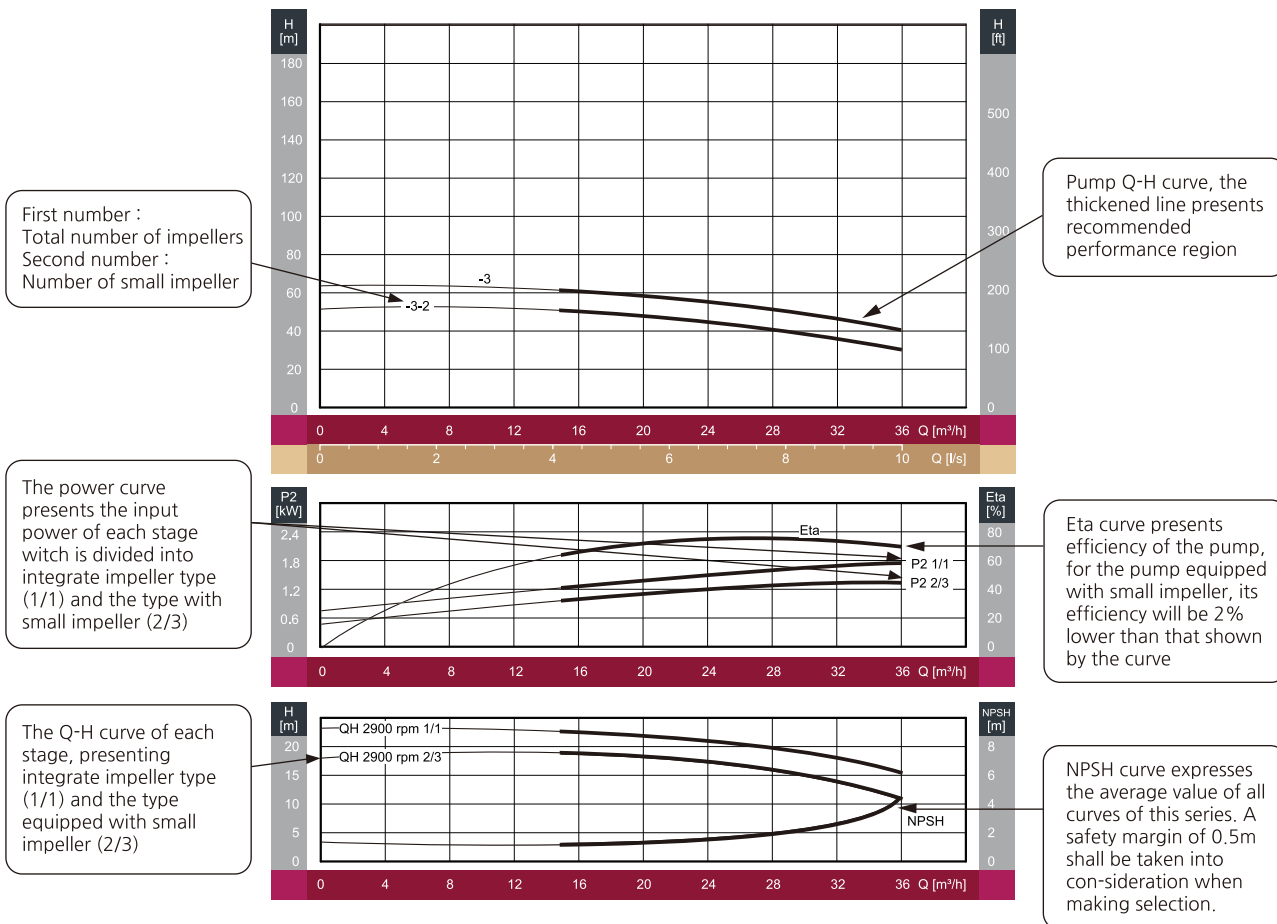
Performance Range



Specification

DESCRIPTION	XR(L)1	XR(L)3	XR(L)5	XR(L)10	XR(L)15	XR(L)20	XR(L)32	XR(L)45	XR(L)64	XR(L)90	XR(L)95	XR(L)125	XR(L)155
Rated flow [m³/h]	1	3	5	10	15	20	32	45	64	90	95	125	155
Flow range [m³/h]	0.7-2.4	1.2-4.5	2.5-8.5	5-13	8.5-23.5	10.5-29	15-40	22-58	30-85	45-120	47-124	62-163	77-202
Max. pressure [bar]	22	23	24	22	23	25	27	33	22	20	23	33	28
Motor power [kW]	0.37-2.2	0.37-3	0.37-5.5	0.75-7.5	1.1-15	1.1-18.5	1.5-30	3-45	4-45	5.5-45	5.5-45	11-110	11-110
Liquid Temperature[°C]	-15~+120°C												
Ambient Temperature[°C]	Max. 40°C												
Pump Type	Vertical Multistage Centrifugal Pump												
XR	●	●	●	●	●	●	●	●	●	●	●	●	●
XRL	●	●	●	●	●	●	●	●	●	●	●	●	●
DIN Flange	DN25 /DN32	DN25 /DN32	DN25 /DN32	DN40	DN50	DN50	DN65	DN80	DN100	DN100	DN100	DN150	DN150
Internal Pressure	PN25	PN25	PN25	PN16-25	PN16-25	PN16-25	PN25-40	PN16-25	PN16	PN16	PN10-40	PN10-40	PN10-40

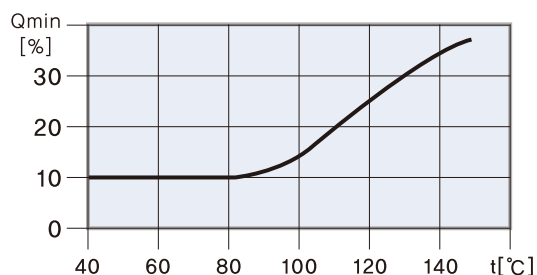
Product Range Description



Performance Curve

1. Curve tolerance in conformity with ISO9906, Annex A
2. All curves are based on the measurement by DOOCH standard motor
3. Measurement is done within 20°C air-free water, kinematic viscosity of 1mm²/sec
4. The operation of the pump shall refer to the performance region indicated by the thickened curve to prevent overheating due to the small flow rate or overload of motor due to the large flow rate.

The following figure shows the temperature according to min.flow and rated flow



Pump Selections

Selection of pump, the following should be considered.

- Usage (Service)
- Maximum flow and pressure
- Comparison of positive suction head

Note: Piping sizes should be under 1.5m/sec. of the liquid speed

Efficiency

If the pump always runs at a steady start point, a pump should be selected to meet the max. efficiency point and start point. In case the water usage changes, a pump should be selected to meet the max. Q usage and usage pattern.

Min. Inlet Pressure NPSH

If the pressure in the pump is lower than the steaming pressure, cavitations might occur. To avoid cavitations, a minimum pressure at the inlet side of the pump must be guaranteed. The max. suction head can refer to the below figure and be caulated with the following formula;

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

P_a = atmosphere pressure(bar), the pressure can be set 1 bar. In a closed system, P_a means system pressure(bar)

$NPSH$ = Net positive suction head(m), it can be read out from the point of possible max flow rate shown on shown on NPSH curve

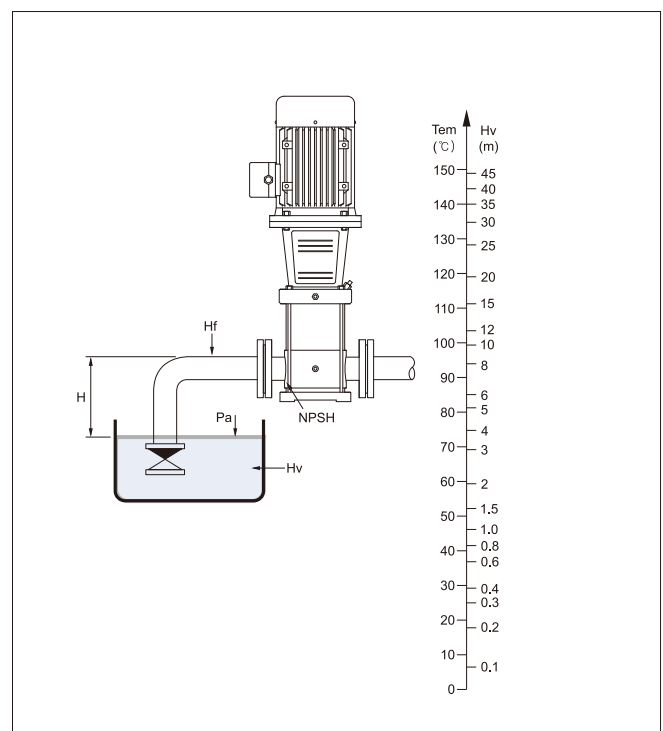
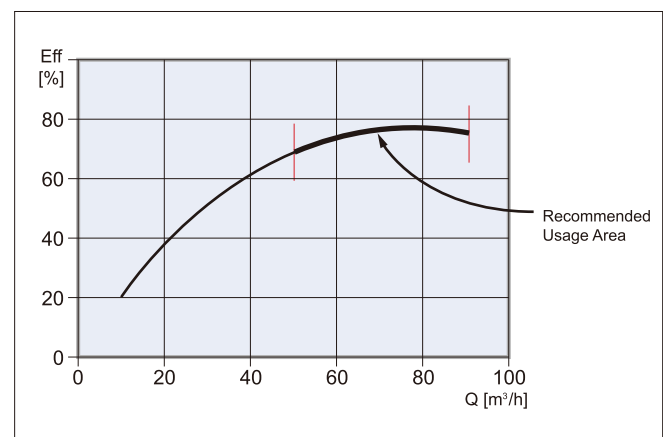
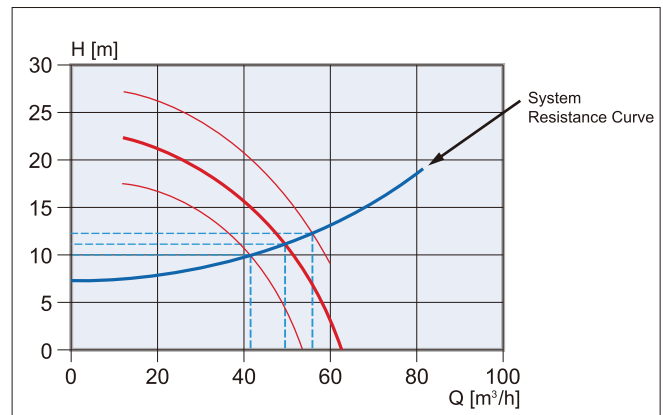
H_f = Pipeline loss at the inlet(m)

H_v = Steaming pressure(m)

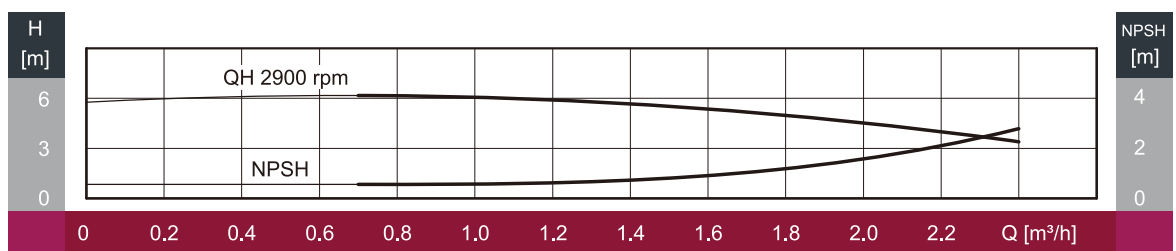
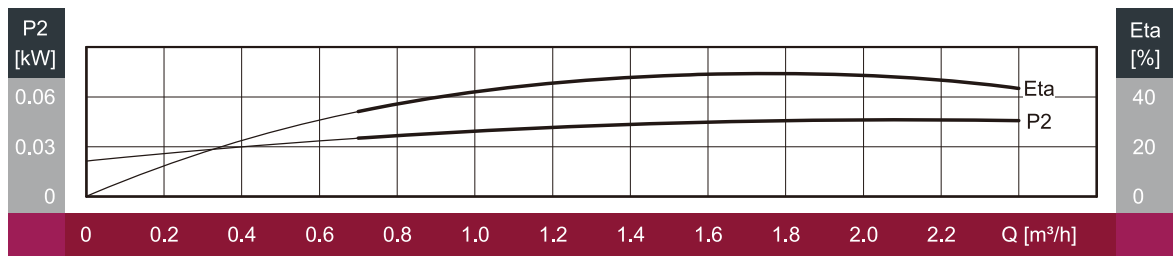
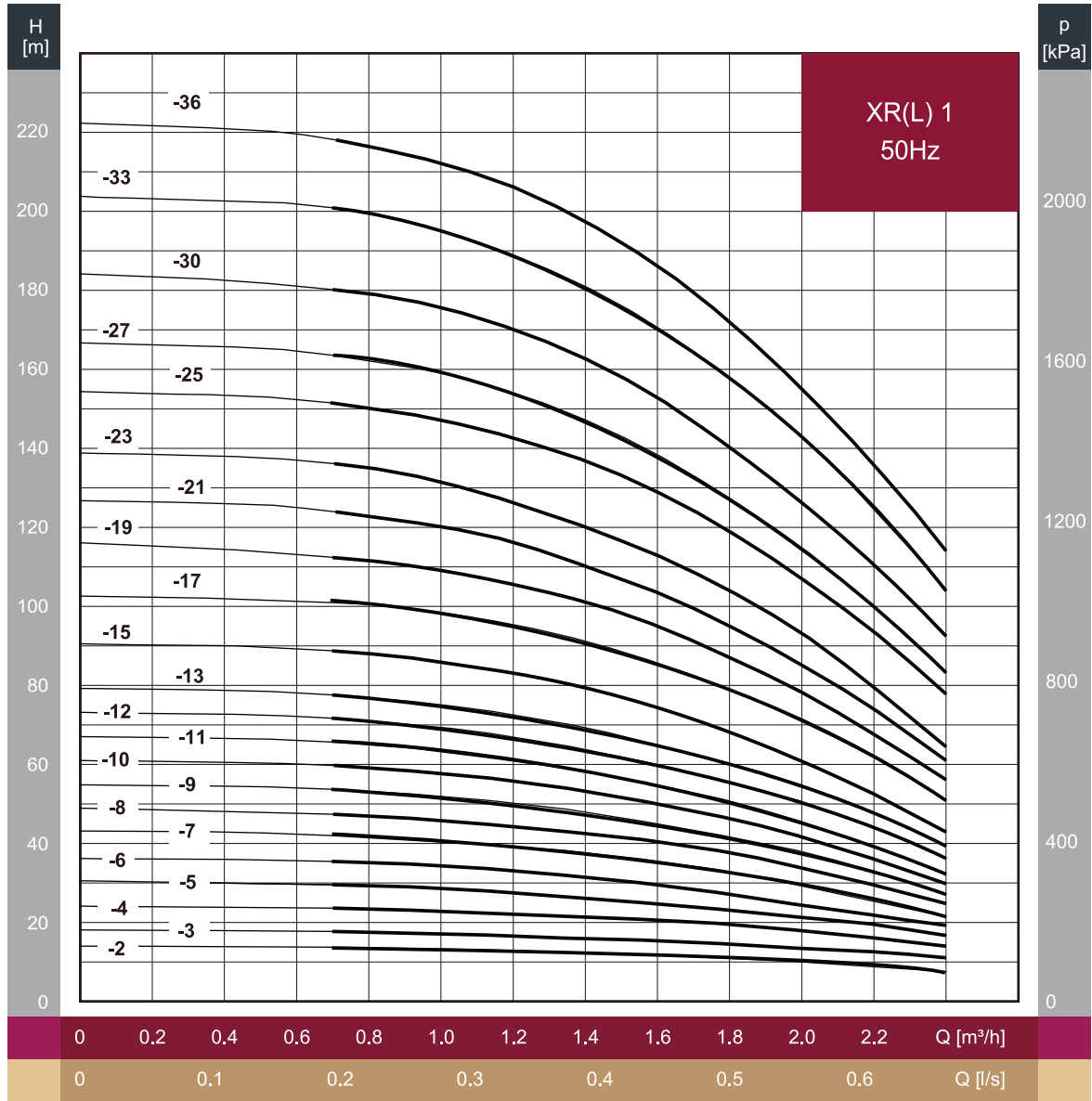
H_s = Safelty margin, it means minimum 0.5m delivery head

If the calculated result H is positive, the pump may run under the max suction head H .

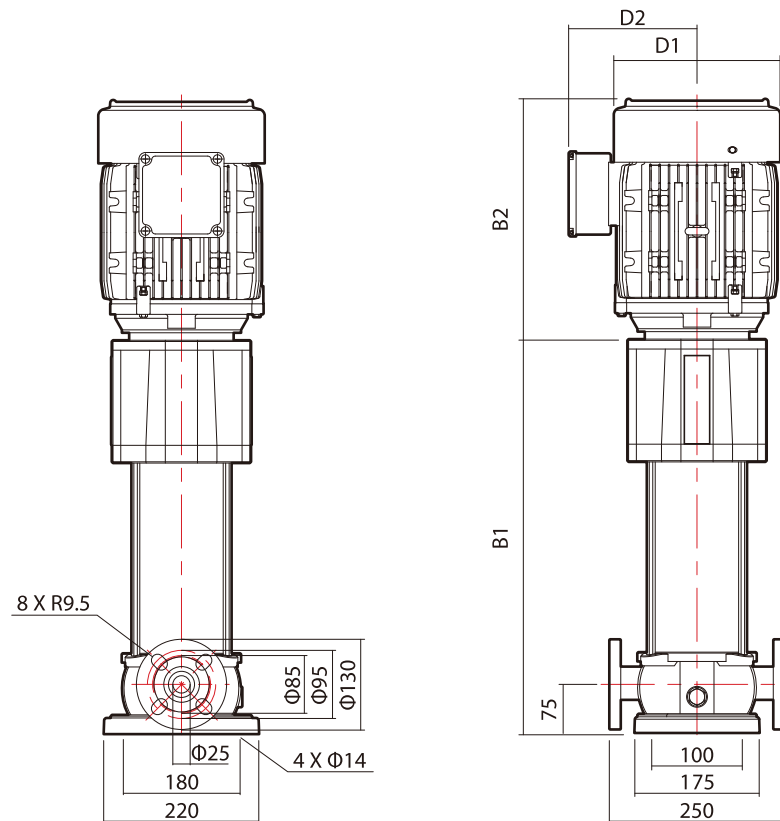
If the calculated result H is negative, a pressure over H is reguired at the inlet side the pump.



Performance Curve



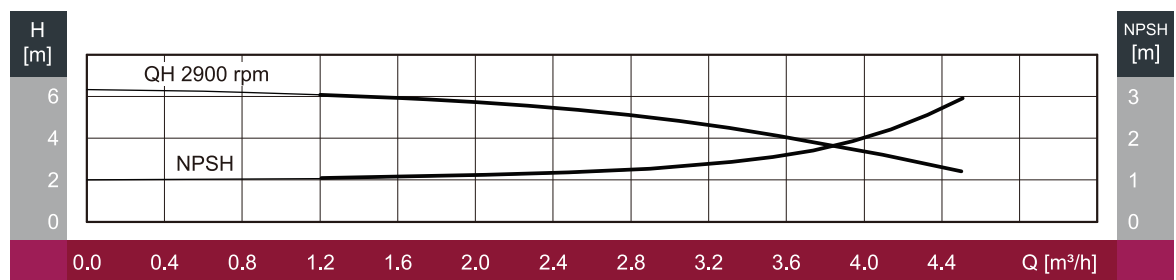
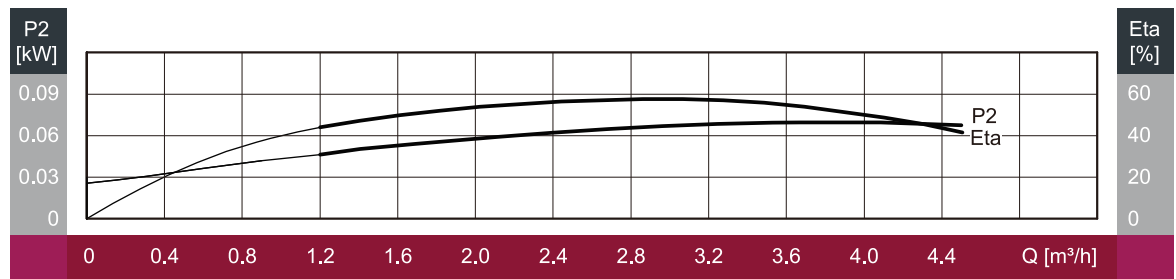
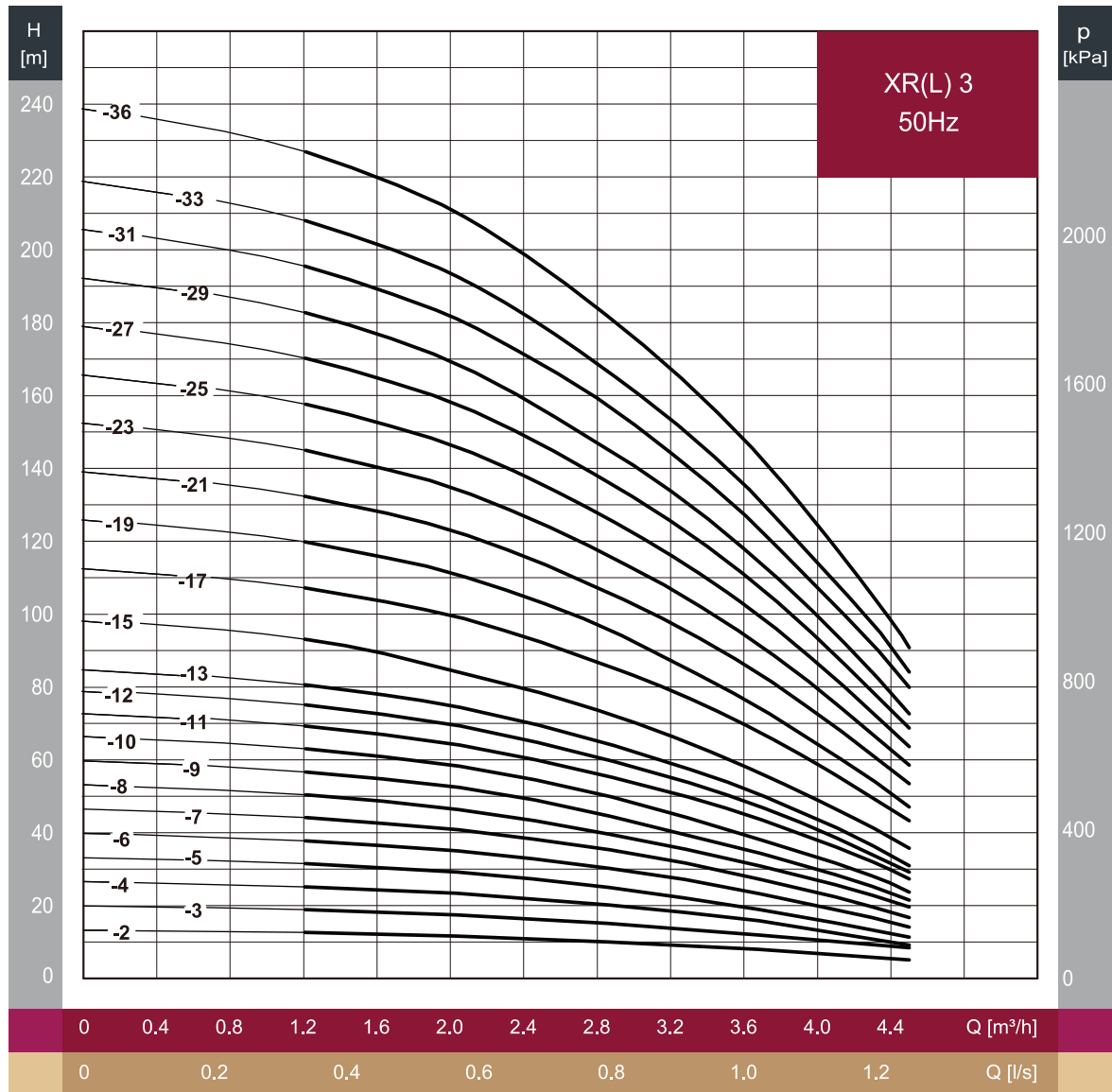
Installation Sketch



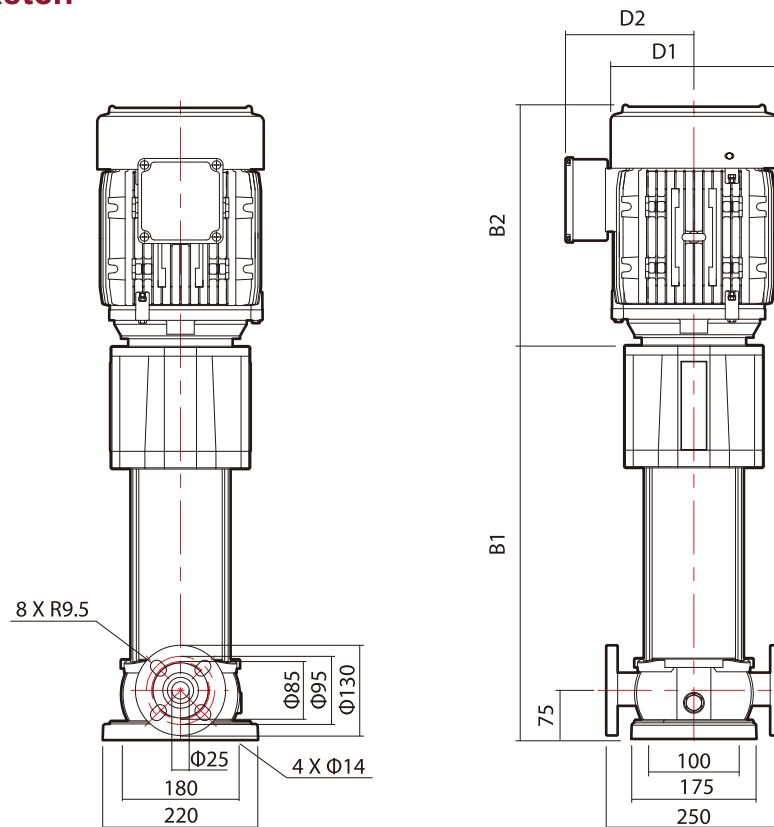
Dimension / Weight

MODEL	POWER		DIMENSION (UNIT: mm)					WEIGHT (kg)
	kW	HP	B1	B2	B1+B2	D1	D2	
XR(L)1-2	0.37	0.5	348.5	215	563.5	138	127	20
XR(L)1-3	0.37	0.5	366.5	215	581.5	138	127	21
XR(L)1-4	0.37	0.5	384.5	215	599.5	138	127	21
XR(L)1-5	0.37	0.5	402.5	215	617.5	138	127	21
XR(L)1-6	0.37	0.5	420.5	215	635.5	138	127	22
XR(L)1-7	0.37	0.5	438.5	215	653.5	138	127	22
XR(L)1-8	0.55	0.75	456.5	215	671.5	138	127	23
XR(L)1-9	0.55	0.75	474.5	215	689.5	138	127	24
XR(L)1-10	0.55	0.75	492.5	215	707.5	138	127	24
XR(L)1-11	0.55	0.75	510.5	215	725.5	138	127	24
XR(L)1-12	0.75	1	528.5	255	783.5	158	143	27
XR(L)1-13	0.75	1	546.5	255	801.5	158	143	28
XR(L)1-15	0.75	1	582.5	255	837.5	158	143	28
XR(L)1-17	1.1	1.5	618.5	255	873.5	158	143	31
XR(L)1-19	1.1	1.5	654.5	255	909.5	158	143	32
XR(L)1-21	1.1	1.5	690.5	255	945.5	158	143	33
XR(L)1-23	1.1	1.5	726.5	255	981.5	158	143	34
XR(L)1-25	1.5	2	762.5	290	1052.5	180	155	41
XR(L)1-27	1.5	2	798.5	290	1088.5	180	155	42
XR(L)1-30	1.5	2	852.5	290	1142.5	180	155	43
XR(L)1-33	2.2	3	906.5	290	1196.5	180	155	45
XR(L)1-36	2.2	3	960.5	290	1250.5	180	155	46

Performance Curve



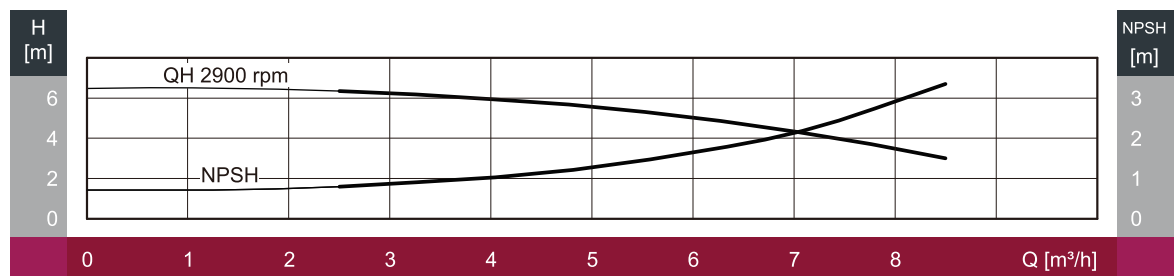
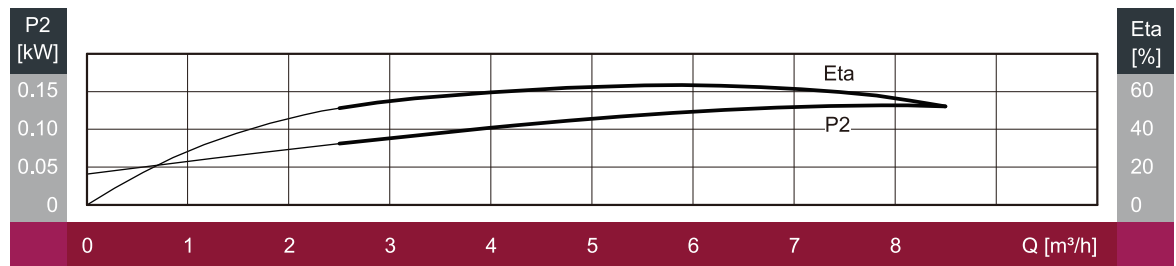
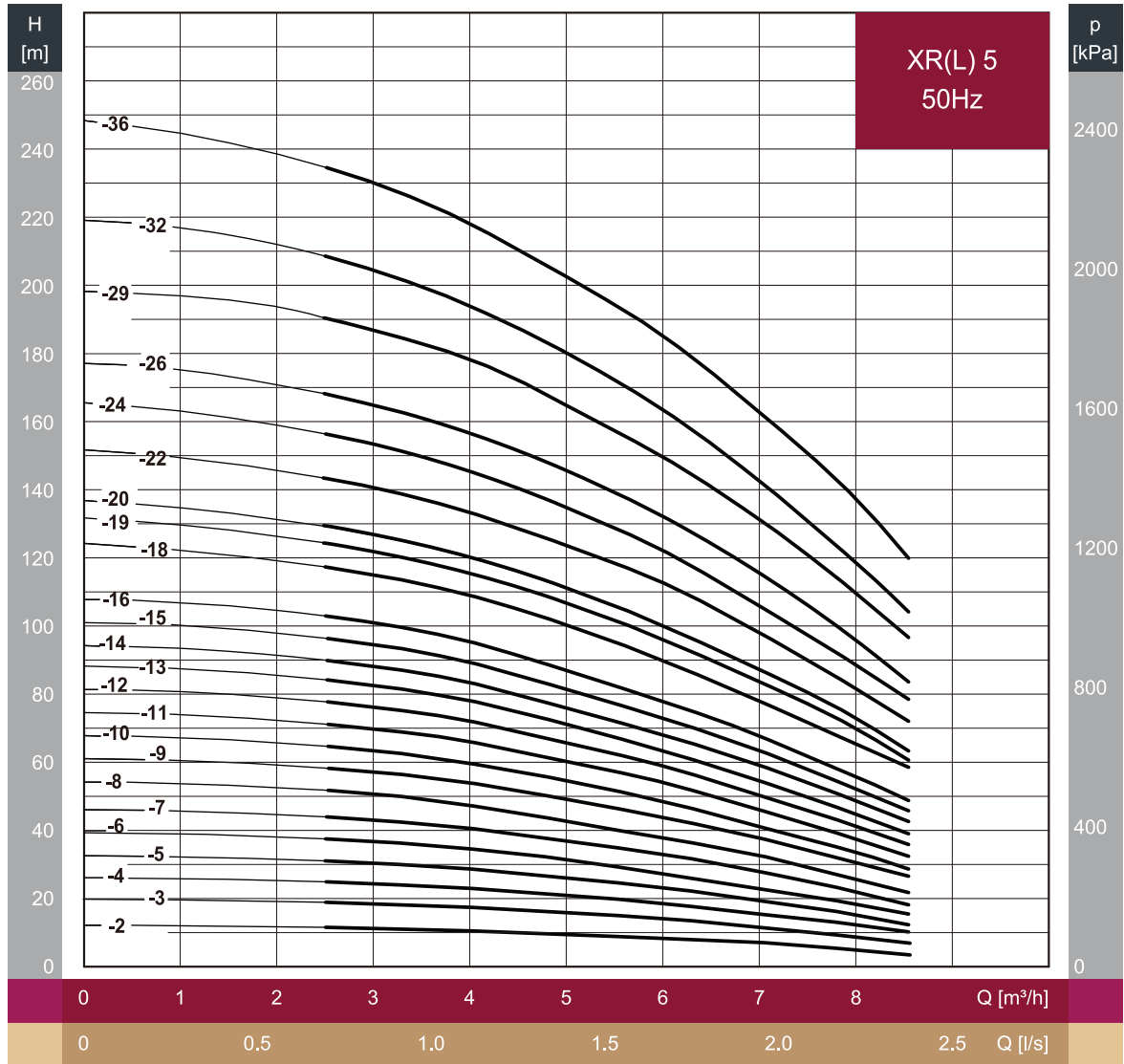
Installation Sketch



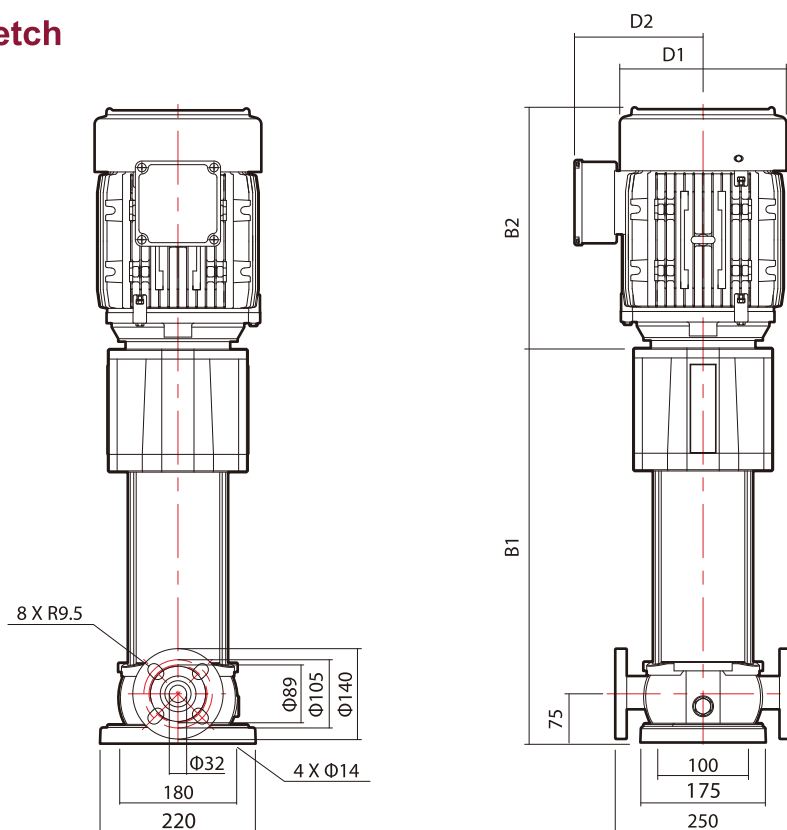
Dimension / Weight

MODEL	POWER		DIMENSION (UNIT: mm)					WEIGHT (kg)
	kW	HP	B1	B2	B1+B2	D1	D2	
XR(L)3-2	0.37	0.5	348.5	215	563.5	138	127	20
XR(L)3-3	0.37	0.5	366.5	215	581.5	138	127	21
XR(L)3-4	0.37	0.5	384.5	215	599.5	138	127	21
XR(L)3-5	0.37	0.5	402.5	215	617.5	138	127	21
XR(L)3-6	0.55	0.75	420.5	215	635.5	138	127	23
XR(L)3-7	0.55	0.75	438.5	215	653.5	138	127	23
XR(L)3-8	0.75	1	456.5	255	711.5	158	143	26
XR(L)3-9	0.75	1	474.5	255	729.5	158	143	26
XR(L)3-10	0.75	1	492.5	255	747.5	158	143	26
XR(L)3-11	1.1	1.5	510.5	255	765.5	158	143	29
XR(L)3-12	1.1	1.5	528.5	255	783.5	158	143	29
XR(L)3-13	1.1	1.5	546.5	255	801.5	158	143	30
XR(L)3-15	1.1	1.5	582.5	255	837.5	158	143	31
XR(L)3-17	1.5	2	618.5	290	908.5	180	155	38
XR(L)3-19	1.5	2	654.5	290	944.5	180	155	39
XR(L)3-21	2.2	3	690.5	290	980.5	180	155	40
XR(L)3-23	2.2	3	726.5	290	1016.5	180	155	41
XR(L)3-25	2.2	3	762.5	290	1052.5	180	155	42
XR(L)3-27	2.2	3	798.5	290	1088.5	180	155	42
XR(L)3-29	2.2	3	834.5	290	1124.5	180	155	43
XR(L)3-31	3	4	870.5	340	1210.5	220	195	48
XR(L)3-33	3	4	906.5	340	1246.5	220	195	49
XR(L)3-36	3	4	960.5	340	1300.5	220	195	50

Performance Curve



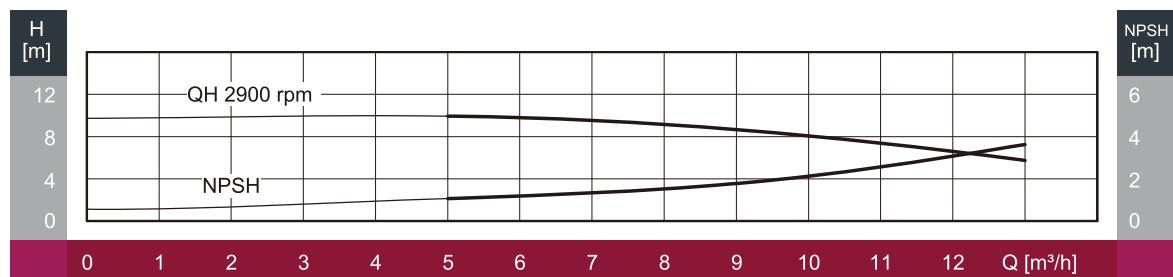
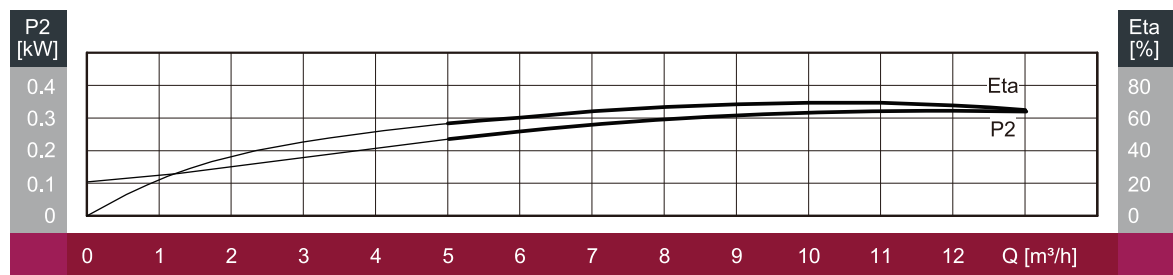
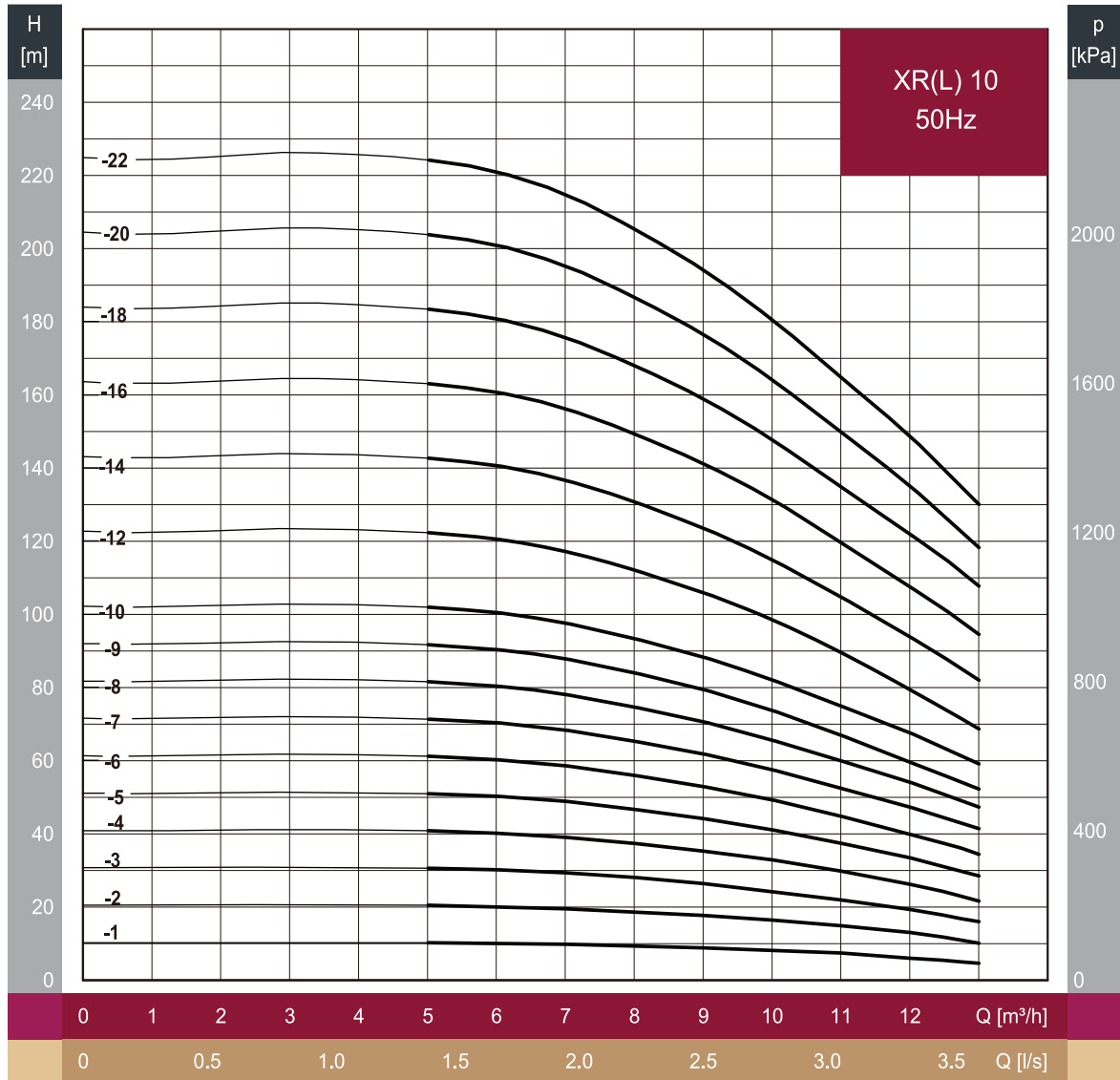
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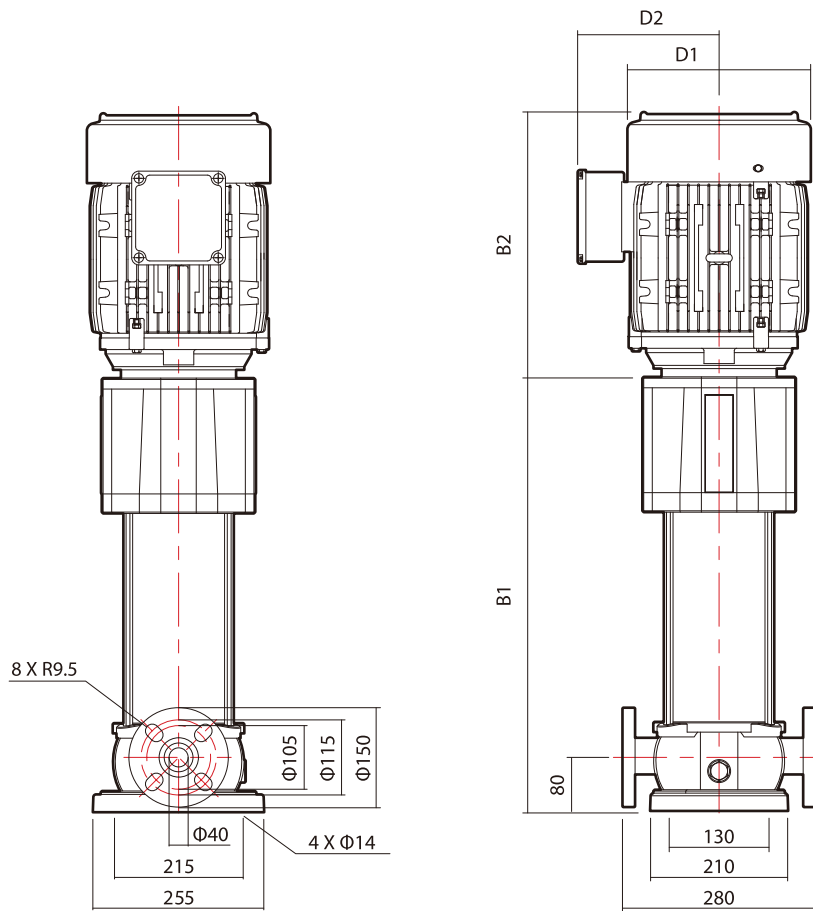
Dimension / Weight

MODEL	POWER		DIMENSION (UNIT: mm)					WEIGHT (kg)
	kW	HP	B1	B2	B1+B2	D1	D2	
XR(L) 5-2	0.37	0.5	366.5	215	581.5	138	127	21
XR(L) 5-3	0.55	0.75	393.5	215	608.5	138	127	22
XR(L) 5-4	0.55	0.75	420.5	215	635.5	138	127	22
XR(L) 5-5	0.75	1	447.5	255	702.5	158	143	25
XR(L) 5-6	1.1	1.5	474.5	255	729.5	158	143	28
XR(L) 5-7	1.1	1.5	501.5	255	756.5	158	143	28
XR(L) 5-8	1.1	1.5	528.5	255	783.5	158	143	29
XR(L) 5-9	1.5	2	555.5	290	845.5	180	155	36
XR(L) 5-10	1.5	2	582.5	290	872.5	180	155	37
XR(L) 5-11	2.2	3	609.5	290	899.5	180	155	38
XR(L) 5-12	2.2	3	636.5	290	926.5	180	155	38
XR(L) 5-13	2.2	3	663.5	290	953.5	180	155	39
XR(L) 5-14	2.2	3	690.5	290	980.5	180	155	40
XR(L) 5-15	2.2	3	717.5	290	1007.5	180	155	40
XR(L) 5-16	2.2	3	744.5	290	1034.5	180	155	41
XR(L) 5-18	3	4	798.5	340	1138.5	220	195	46
XR(L) 5-19	3	4	825.5	340	1165.5	220	195	47
XR(L) 5-20	3	4	852.5	340	1192.5	220	195	47
XR(L) 5-22	4	5.5	906.5	340	1246.5	220	195	59
XR(L) 5-24	4	5.5	960.5	340	1300.5	220	195	61
XR(L) 5-26	4	5.5	1014.5	340	1354.5	220	195	62
XR(L) 5-29	4	5.5	1095.5	340	1435.5	220	195	64
XR(L) 5-32	5.5	7.5	1204.5	385	1589.5	260	215	79
XR(L) 5-36	5.5	7.5	1312.5	385	1697.5	260	215	81

Performance Curve



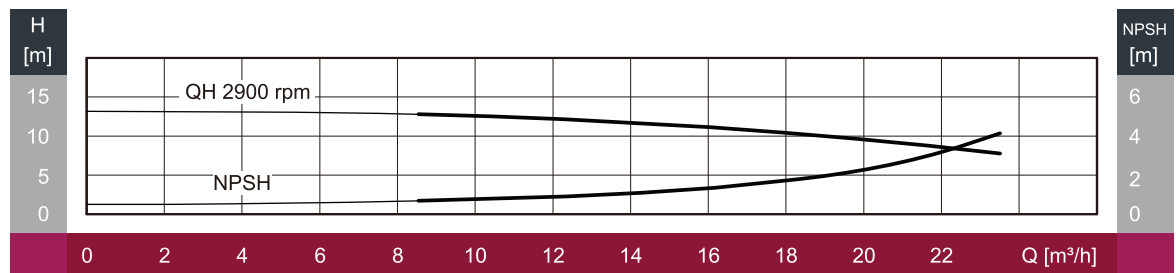
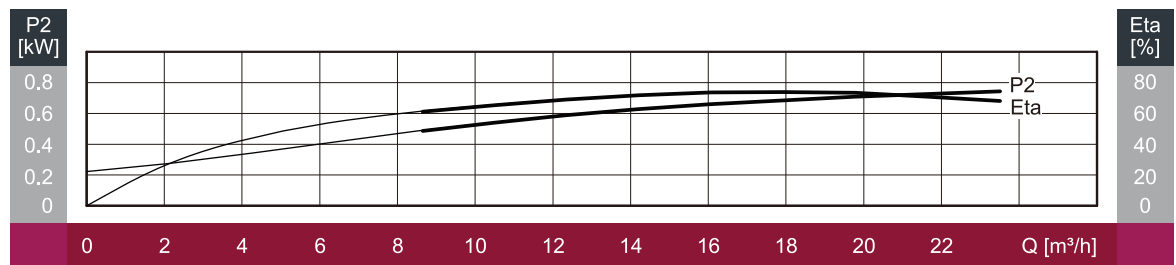
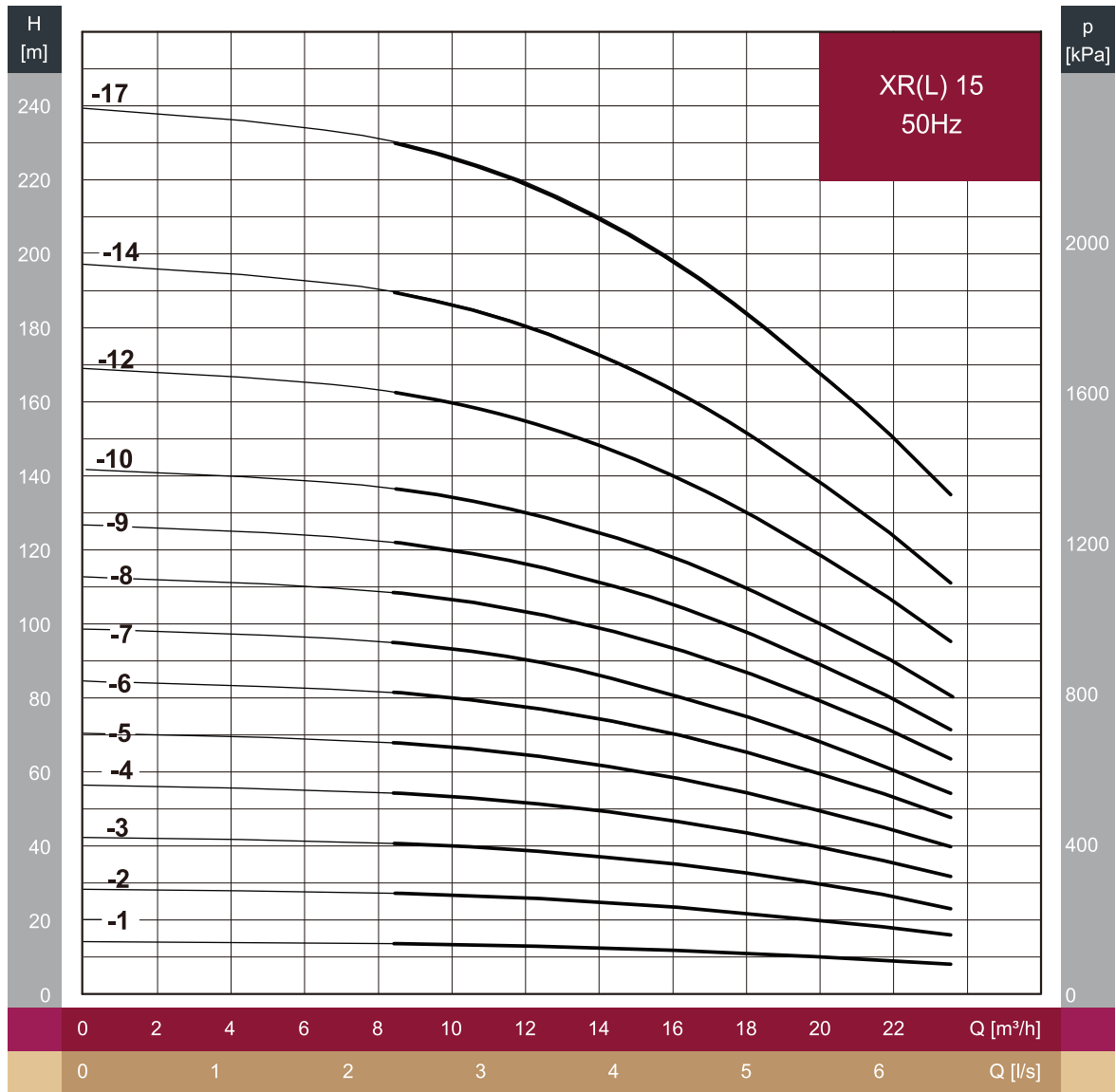
Installation Sketch



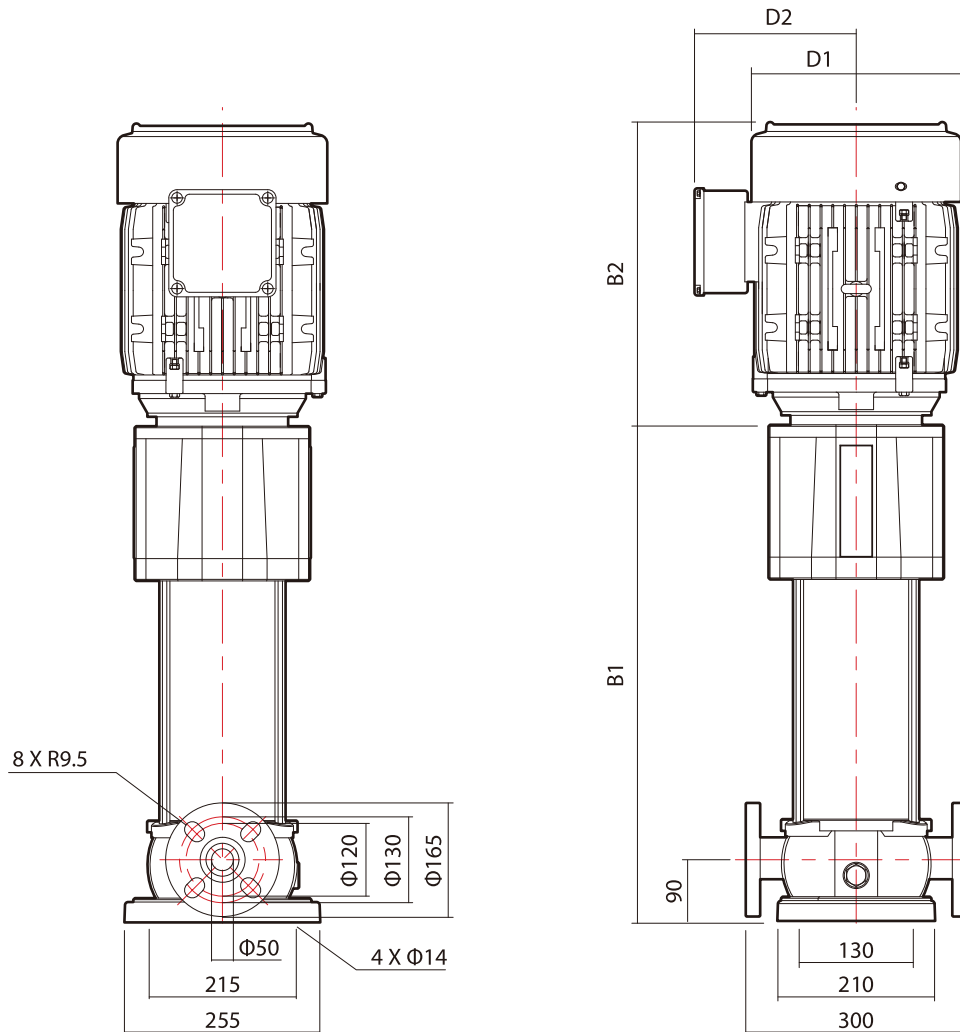
Dimension / Weight

MODEL	POWER		DIMENSION (UNIT: mm)					WEIGHT (kg)
	kW	HP	B1	B2	B1+B2	D1	D2	
XR(L)10-1	0.75	1	433	255	688	160	145	32
XR(L)10-2	0.75	1	433	255	688	160	145	34
XR(L)10-3	1.1	1.5	463	255	718	160	145	38
XR(L)10-4	1.5	2	493	290	783	180	155	46
XR(L)10-5	2.2	3	524	290	814	180	155	47
XR(L)10-6	2.2	3	554	290	844	180	155	48
XR(L)10-7	3	4	583	340	923	200	180	54
XR(L)10-8	3	4	613	340	953	200	180	55
XR(L)10-9	3	4	643	340	983	200	180	56
XR(L)10-10	4	5.5	673	340	1013	220	193	68
XR(L)10-12	4	5.5	733	340	1073	220	193	70
XR(L)10-14	5.5	7.5	815	383	1198	265	223	93
XR(L)10-16	5.5	7.5	875	383	1258	265	223	95
XR(L)10-18	7.5	10	933	425	1358	265	223	99
XR(L)10-20	7.5	10	993	425	1418	265	223	101
XR(L)10-22	7.5	10	1053	425	1478	265	223	104

Performance Curve



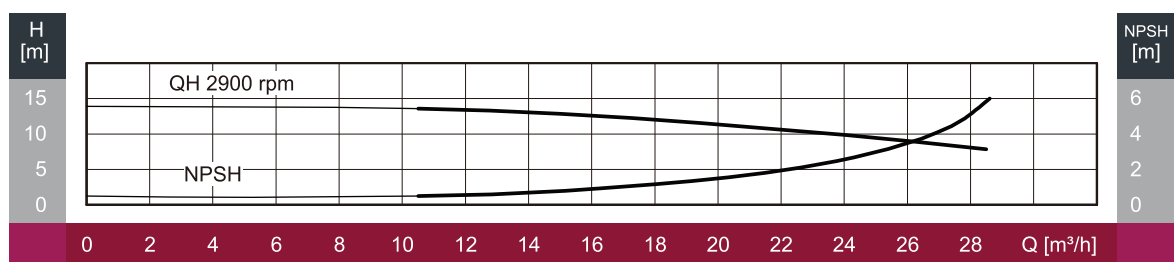
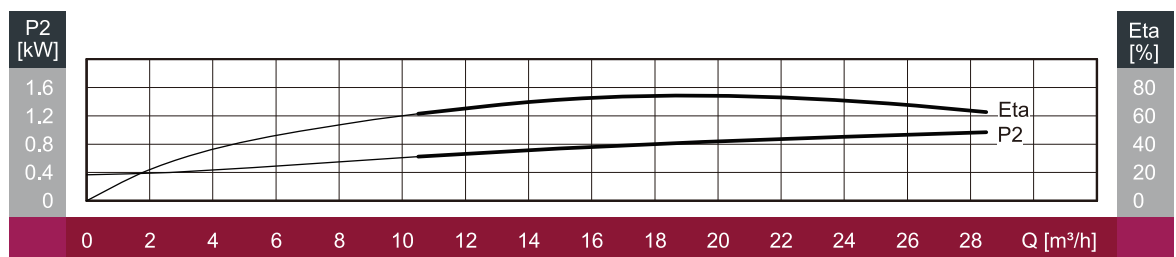
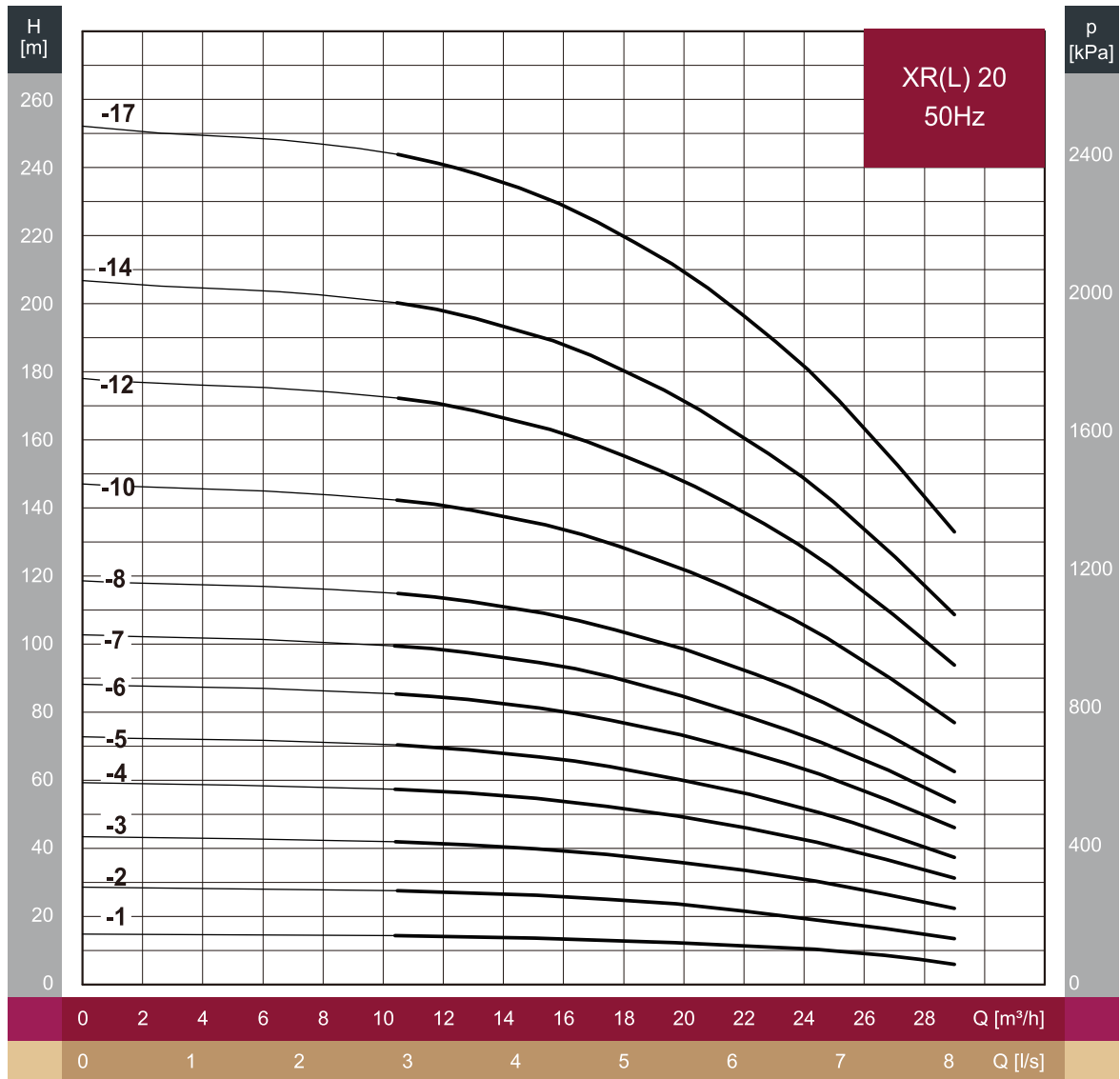
Installation Sketch



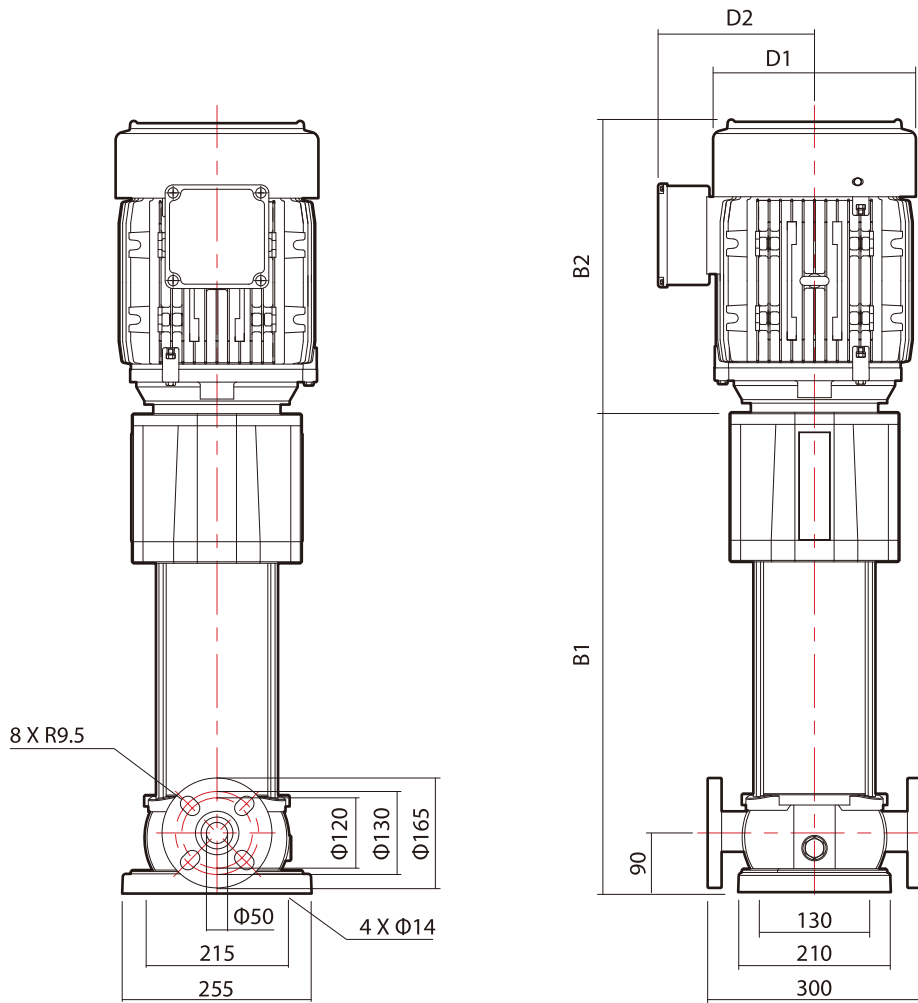
Dimension / Weight

MODEL	POWER		DIMENSION (UNIT: mm)					WEIGHT (kg)
	kW	HP	B1	B2	B1+B2	D1	D2	
XR(L)15-1	1.1	1.5	478	255	733	158	143	39
XR(L)15-2	2.2	3	478	290	768	180	155	47
XR(L)15-3	3	4	523	340	863	220	195	53
XR(L)15-4	4	5.5	568	340	908	220	195	65
XR(L)15-5	4	5.5	613	340	953	220	195	67
XR(L)15-6	5.5	7.5	678	383	1061	260	215	89
XR(L)15-7	5.5	7.5	723	383	1106	260	215	90
XR(L)15-8	7.5	10	768	383	1151	260	215	94
XR(L)15-9	7.5	10	813	383	1196	260	215	96
XR(L)15-10	11	15	888	505	1393	320	260	148
XR(L)15-12	11	15	978	505	1483	320	260	151
XR(L)15-14	11	15	1068	505	1573	320	260	154
XR(L)15-17	15	20	1203	505	1708	320	260	171

Performance Curve



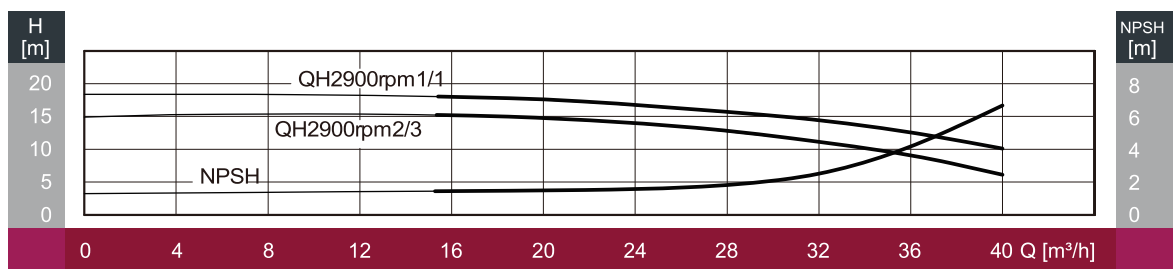
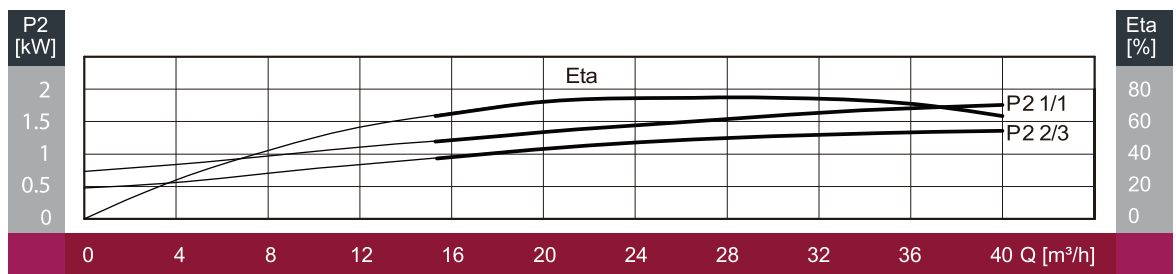
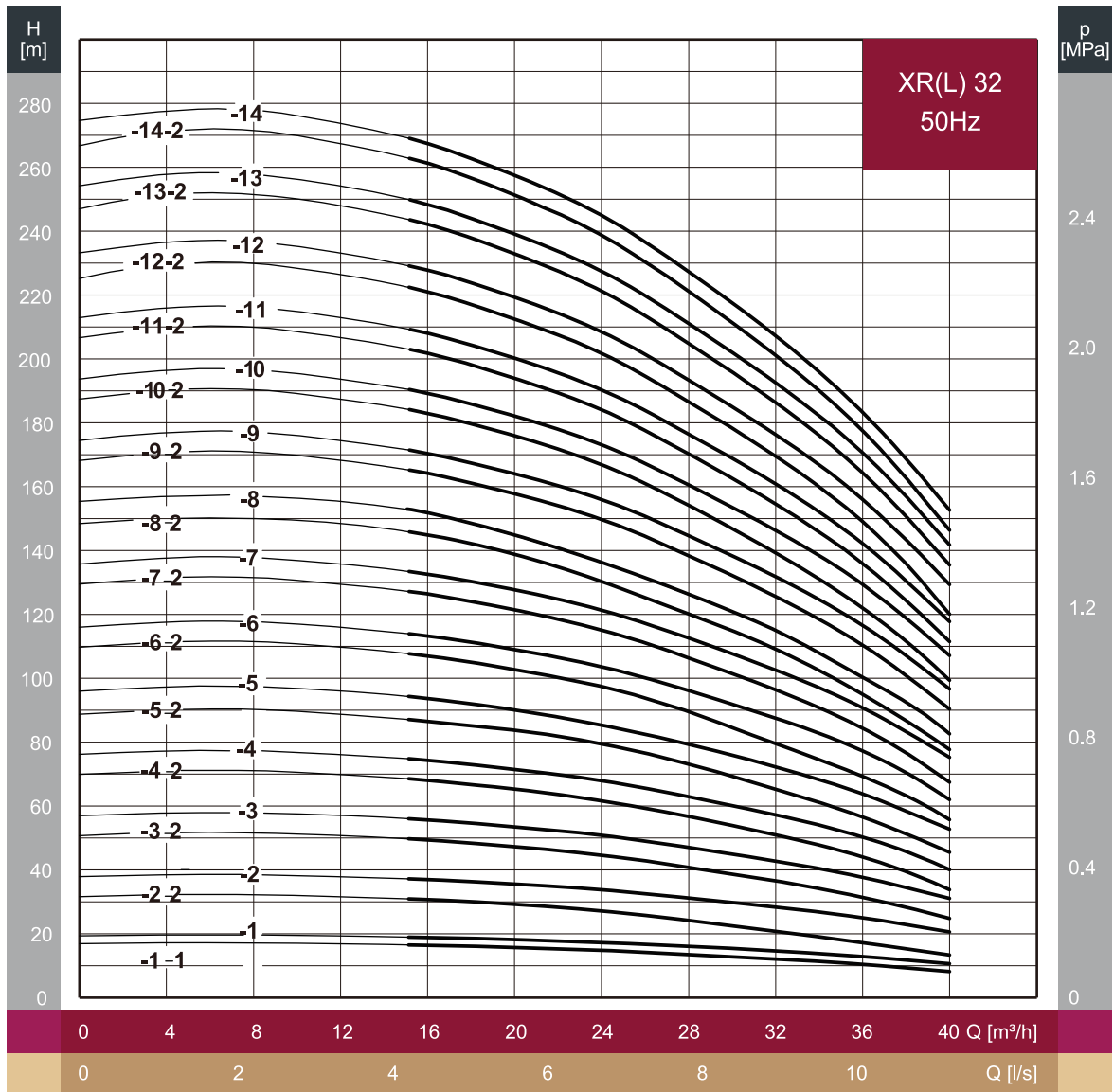
Installation Sketch



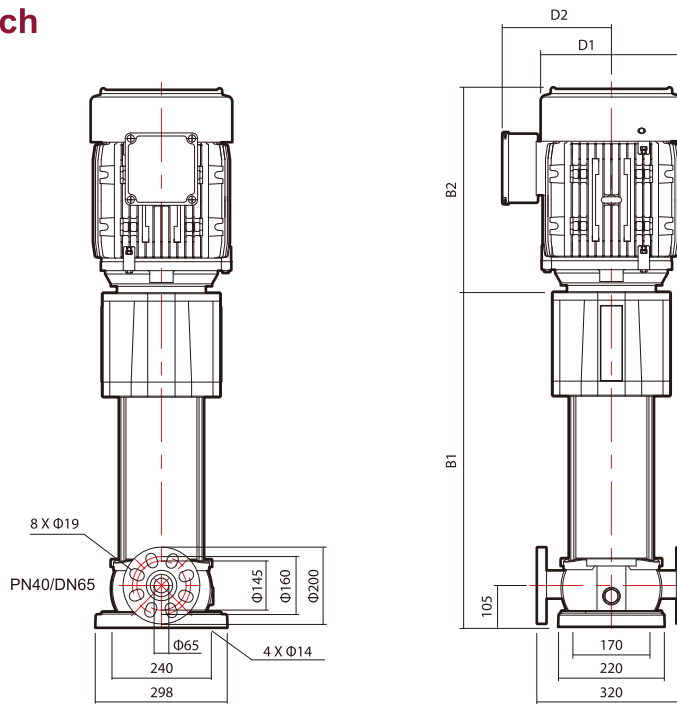
Dimension / Weight

MODEL	POWER		DIMENSION (UNIT: mm)					WEIGHT (kg)
	kW	HP	B1	B2	B1+B2	D1	D2	
XR(L)20-1	1.1	1.5	478	255	733	158	143	39
XR(L)20-2	2.2	3	478	290	768	180	155	47
XR(L)20-3	4	5.5	523	340	863	220	195	64
XR(L)20-4	5.5	7.5	588	383	971	260	215	86
XR(L)20-5	5.5	7.5	633	383	1016	260	215	87
XR(L)20-6	7.5	10	678	383	1061	260	215	111
XR(L)20-7	7.5	10	723	383	1106	260	215	112
XR(L)20-8	11	15	798	505	1303	320	260	144
XR(L)20-10	11	15	888	505	1393	320	260	148
XR(L)20-12	15	20	978	505	1483	320	260	163
XR(L)20-14	15	20	1068	505	1573	320	260	166
XR(L)20-17	18.5	25	1203	560	1763	320	260	184

Performance Curve



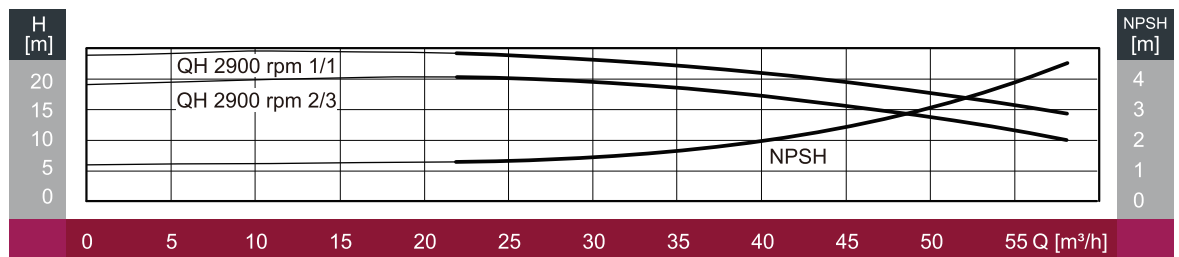
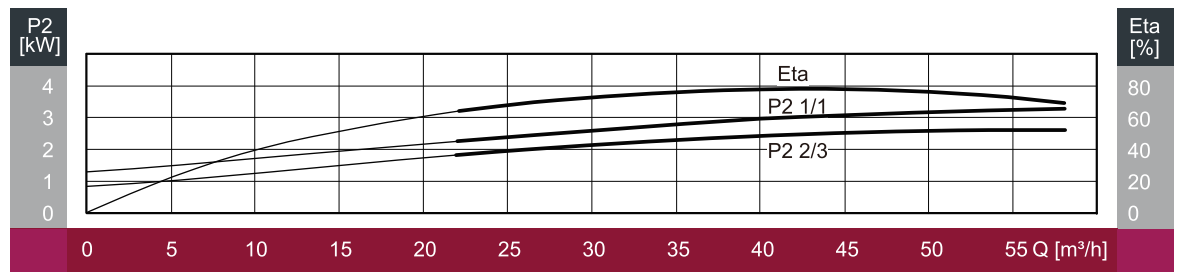
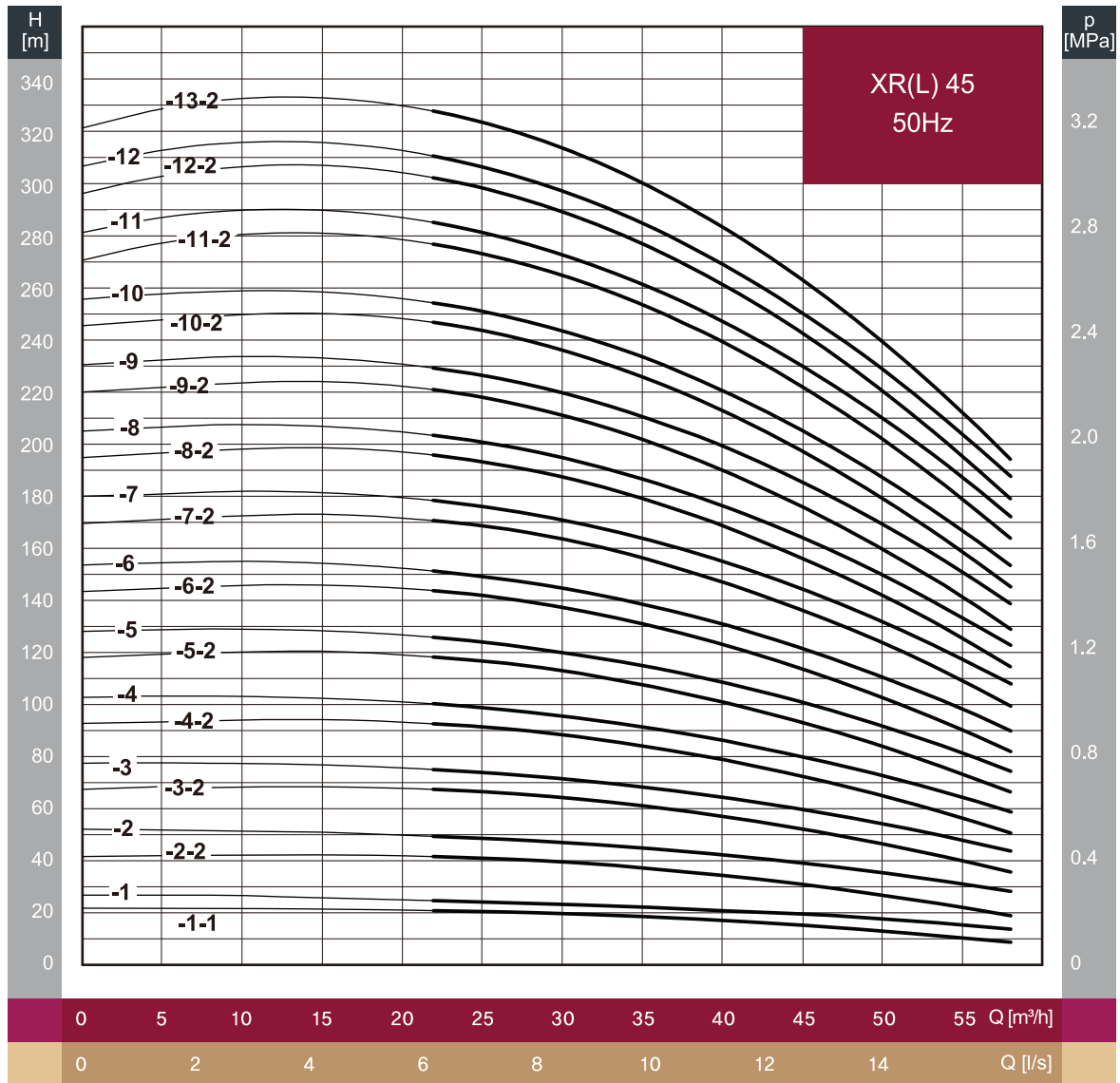
Installation Sketch



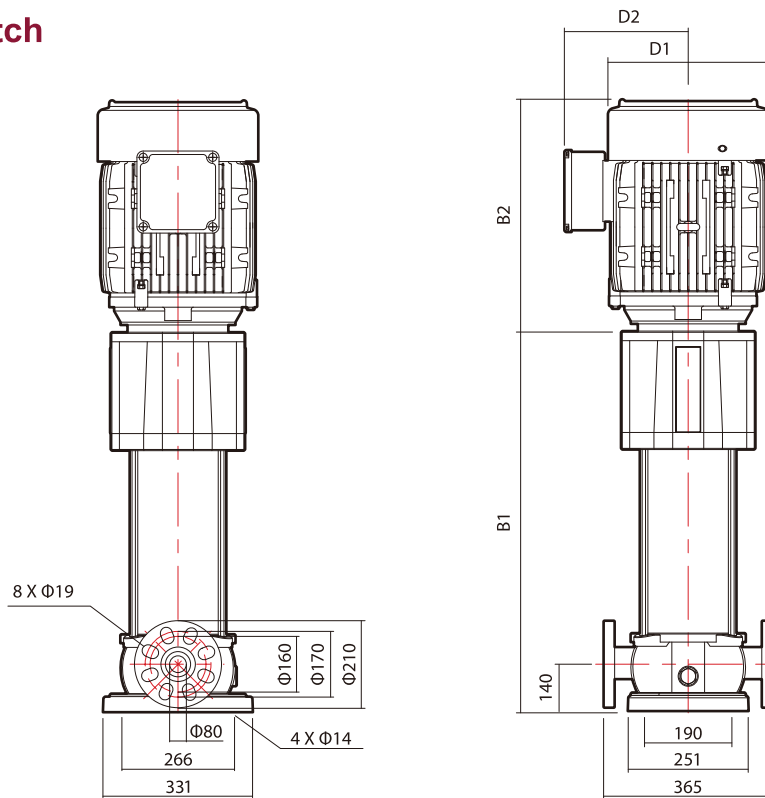
Dimension / Weight

MODEL	POWER		DIMENSION (UNIT: mm)					WEIGHT (kg)
	kW	HP	B1	B2	B1+B2	D1	D2	
XR(L)32-1-1	1.5	2	575	290	865	180	155	66
XR(L)32-1	2.2	3	575	290	865	180	155	66
XR(L)32-2-2	3	4	645	340	985	220	195	73
XR(L)32-2	4	5.5	645	340	985	220	195	84
XR(L)32-3-2	5.5	7.5	715	383	1098	260	215	99
XR(L)32-3	5.5	7.5	715	383	1098	260	215	99
XR(L)32-4-2	7.5	10	785	383	1168	260	215	104
XR(L)32-4	7.5	10	785	383	1168	260	215	104
XR(L)32-5-2	11	15	885	505	1390	320	260	161
XR(L)32-5	11	15	885	505	1390	320	260	161
XR(L)32-6-2	11	15	955	505	1460	320	260	164
XR(L)32-6	11	15	955	505	1460	320	260	164
XR(L)32-7-2	15	20	1025	505	1530	320	260	179
XR(L)32-7	15	20	1025	505	1530	320	260	179
XR(L)32-8-2	15	20	1095	505	1600	320	260	185
XR(L)32-8	15	20	1095	505	1600	320	260	185
XR(L)32-9-2	18.5	25	1165	560	1725	320	260	202
XR(L)32-9	18.5	25	1165	560	1725	320	260	202
XR(L)32-10-2	18.5	25	1235	560	1795	320	260	205
XR(L)32-10	18.5	25	1235	560	1795	320	260	205
XR(L)32-11-2	22	30	1305	578	1883	355	280	222
XR(L)32-11	22	30	1305	578	1883	355	280	222
XR(L)32-12-2	22	30	1375	578	1953	355	280	226
XR(L)32-12	22	30	1375	578	1953	355	280	226
XR(L)32-13-2	30	40	1445	650	2095	400	330	384
XR(L)32-13	30	40	1445	650	2095	400	330	384
XR(L)32-14-2	30	40	1515	650	2165	400	330	387
XR(L)32-14	30	40	1515	650	2165	400	330	387

Performance Curve



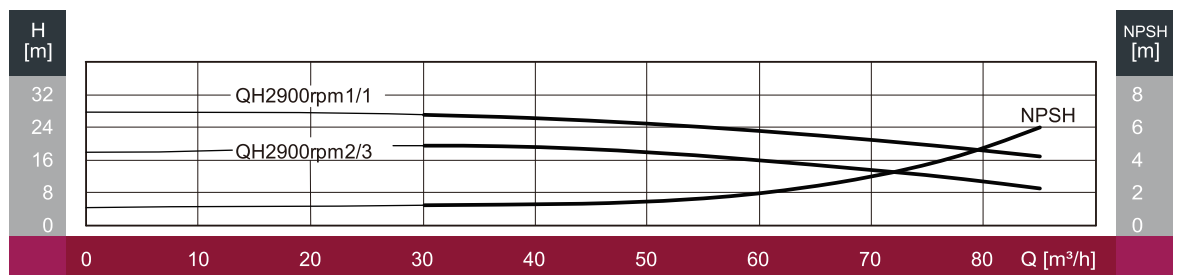
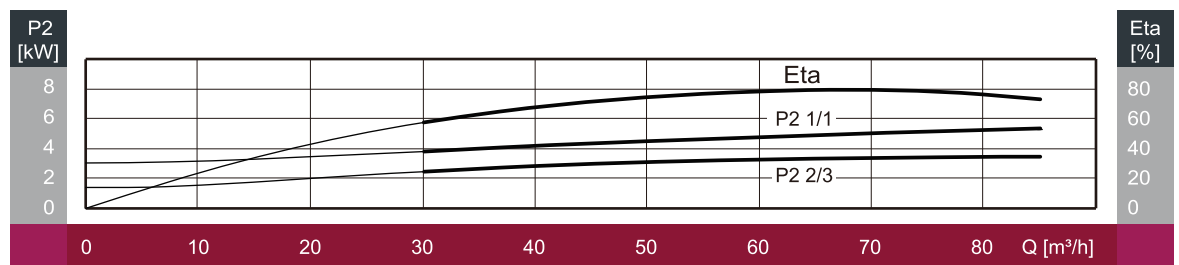
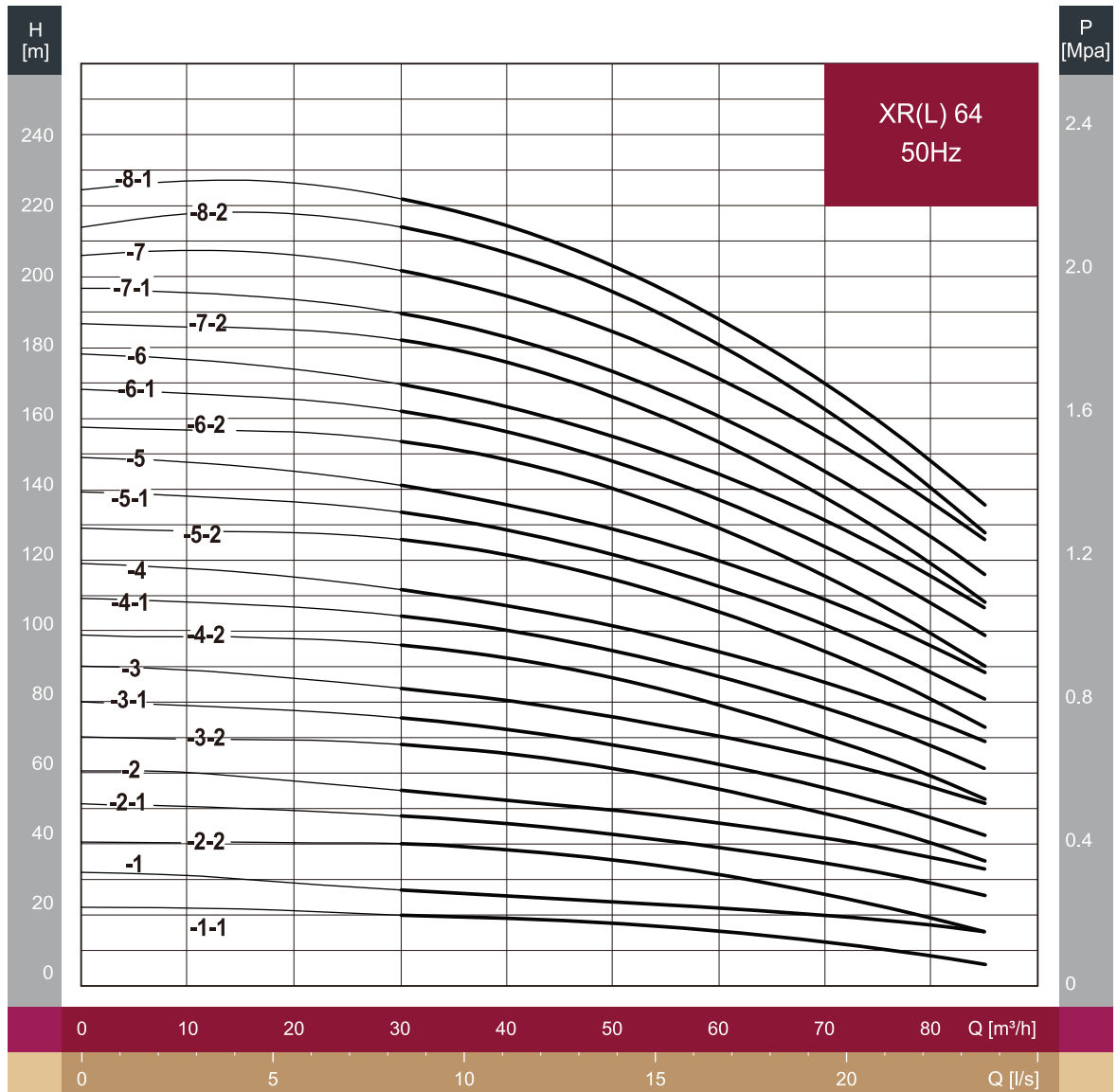
Installation Sketch



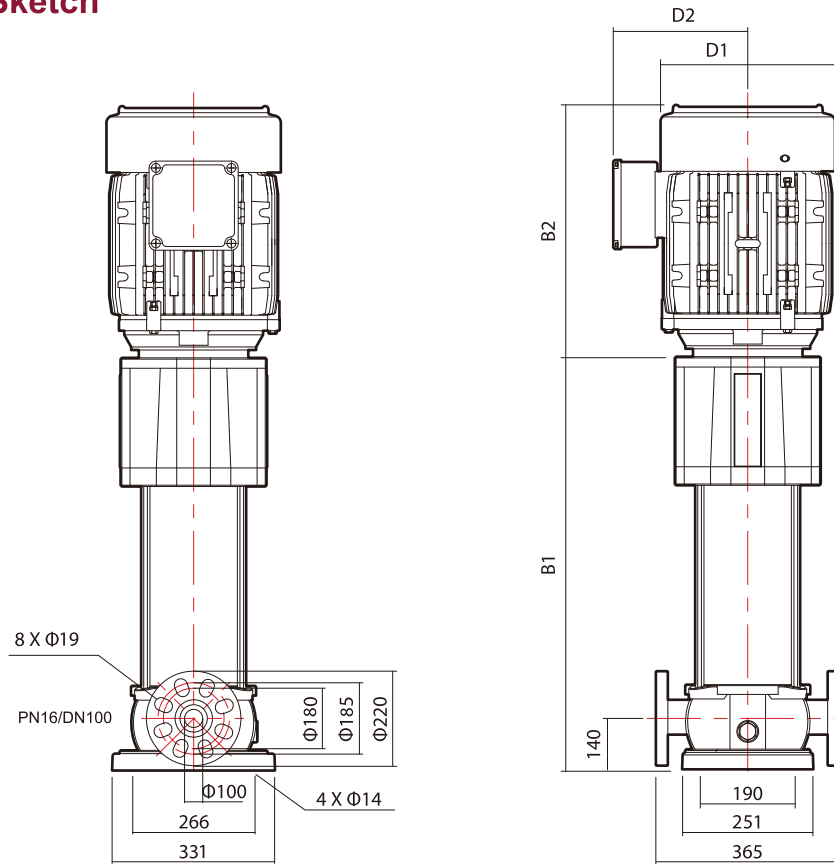
Dimension / Weight

MODEL	POWER		DIMENSION (UNIT: mm)					WEIGHT (kg)
	kW	HP	B1	B2	B1+B2	D1	D2	
XR(L)45-1-1	3	4	629	335	964	198	120	78
XR(L)45-1	4	5.5	629	371	1000	220	134	89
XR(L)45-2-2	5.5	7.5	709	391	1100	220	134	104
XR(L)45-2	7.5	10	709	379	1088	260	159	106
XR(L)45-3-2	11	15	819	471	1290	314	204	165
XR(L)45-3	11	15	819	471	1290	314	204	165
XR(L)45-4-2	15	20	899	471	1370	314	204	180
XR(L)45-4	15	20	899	471	1370	314	204	180
XR(L)45-5-2	18.5	25	979	515	1494	314	204	197
XR(L)45-5	18.5	25	979	515	1494	314	204	197
XR(L)45-6-2	22	30	1059	541	1600	314	204	218
XR(L)45-6	22	30	1059	541	1600	314	204	218
XR(L)45-7-2	30	40	1139	610	1749	402	300	324
XR(L)45-7	30	40	1139	610	1749	402	300	324
XR(L)45-8-2	30	40	1219	610	1829	402	300	328
XR(L)45-8	30	40	1219	610	1829	402	300	328
XR(L)45-9-2	30	40	1299	610	1909	402	300	333
XR(L)45-9	37	50	1299	667	1966	402	300	363
XR(L)45-10-2	37	50	1379	667	2046	402	300	367
XR(L)45-10	37	50	1379	667	2046	402	300	367
XR(L)45-11-2	45	60	1459	709	2168	442	325	450
XR(L)45-11	45	60	1459	709	2168	442	325	450
XR(L)45-12-2	45	60	1539	709	2248	442	325	455
XR(L)45-12	45	60	1539	709	2248	442	325	455
XR(L)45-13-2	45	60	1619	709	2328	442	325	459

Performance Curve



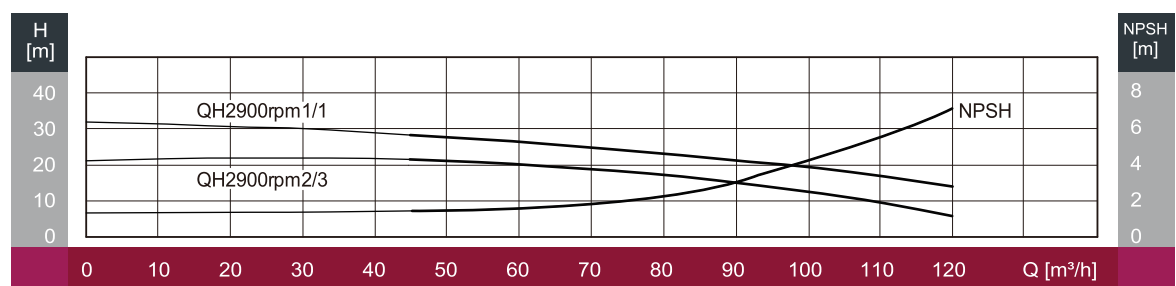
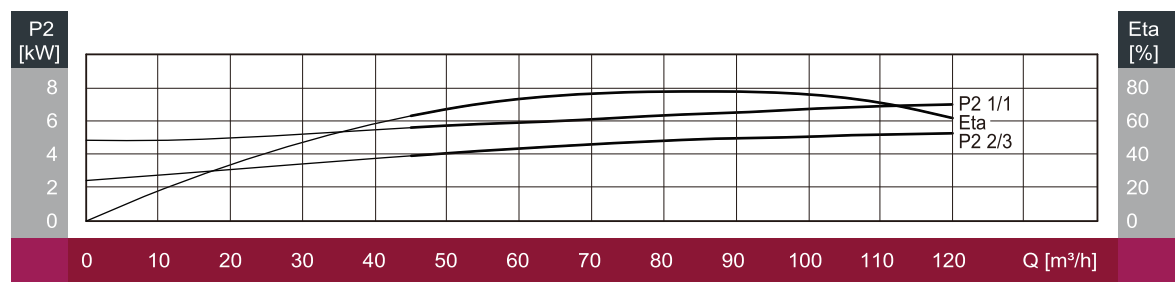
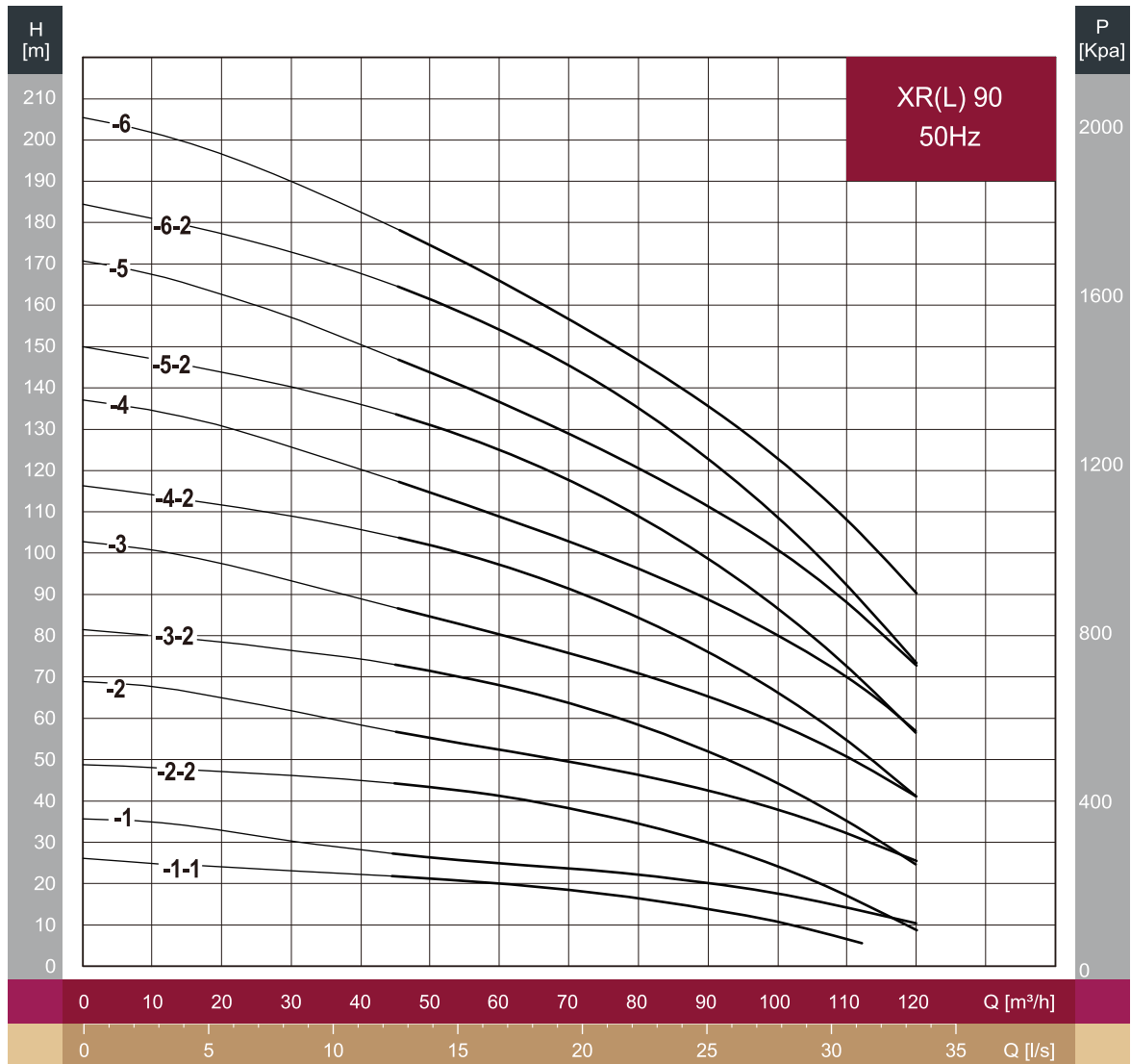
Installation Sketch



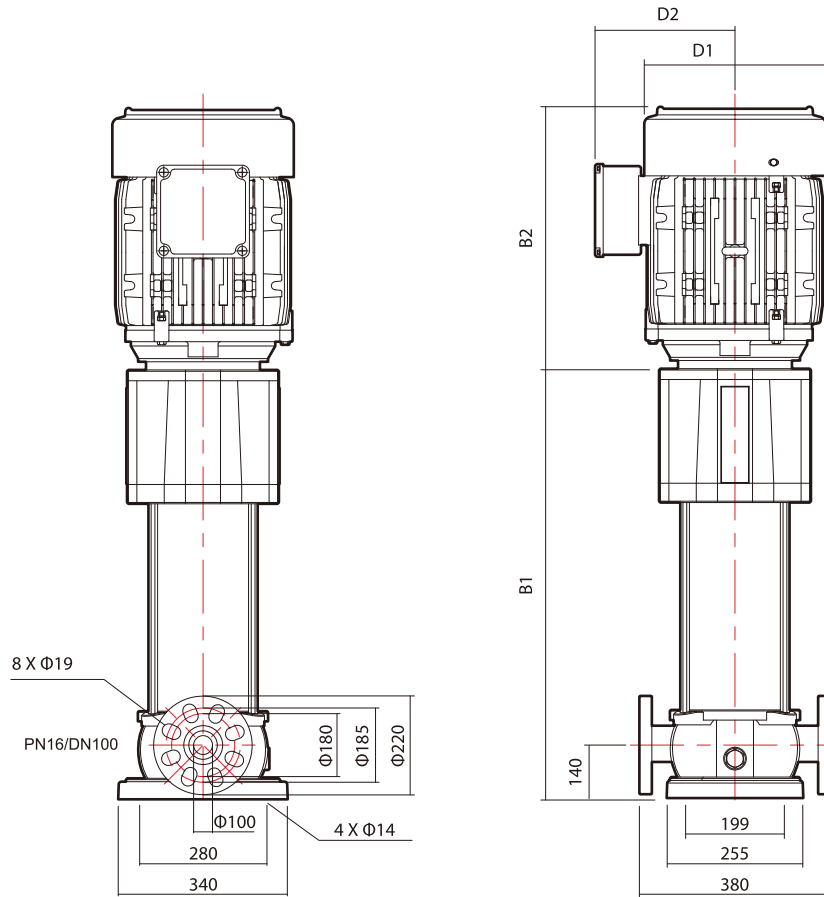
Dimension / Weight

MODEL	POWER		DIMENSION (UNIT: mm)					WEIGHT (kg)
	kW	HP	B1	B2	B1+B2	D1	D2	
XR(L)64-1-1	4	5.5	631	372	1003	220	134	91
XR(L)64-1	5.5	7.5	631	391	1022	220	134	102
XR(L)64-2-2	7.5	10	714	379	1093	260	159	109
XR(L)64-2-1	11	15	744	471	1215	314	204	163
XR(L)64-2	11	15	744	471	1215	314	204	163
XR(L)64-3-2	15	20	826	471	1297	314	204	180
XR(L)64-3-1	15	20	826	471	1297	314	204	180
XR(L)64-3	18.5	25	826	515	1341	314	204	193
XR(L)64-4-2	18.5	25	909	515	1424	314	204	197
XR(L)64-4-1	22	30	909	541	1450	314	204	211
XR(L)64-4	22	30	909	541	1450	314	204	211
XR(L)64-5-2	30	40	991	609	1600	402	300	318
XR(L)64-5-1	30	40	991	609	1600	402	300	318
XR(L)64-5	30	40	991	609	1600	402	300	318
XR(L)64-6-2	30	40	1074	610	1684	402	300	325
XR(L)64-6-1	37	50	1074	667	1741	402	300	355
XR(L)64-6	37	50	1074	667	1741	402	300	355
XR(L)64-7-2	37	50	1156	667	1823	402	300	359
XR(L)64-7-1	37	50	1156	667	1823	402	300	359
XR(L)64-7	45	60	1156	709	1865	442	325	439
XR(L)64-8-2	45	60	1239	709	1948	442	325	443
XR(L)64-8-1	45	60	1239	709	1948	442	325	443

Performance Curve



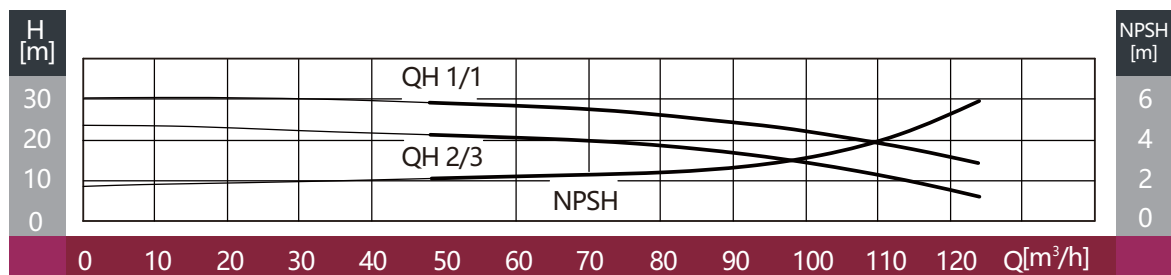
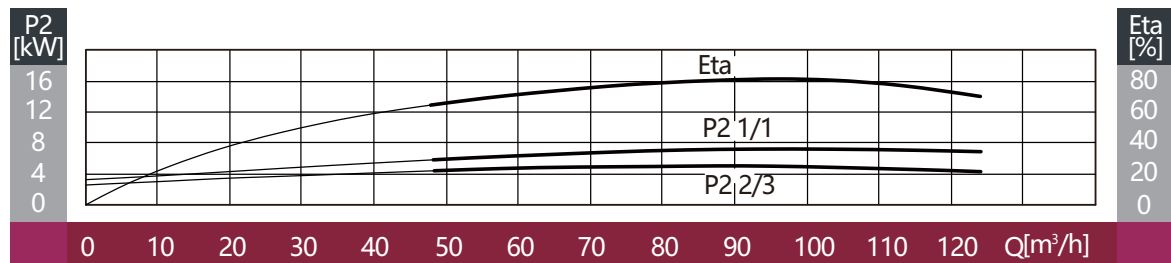
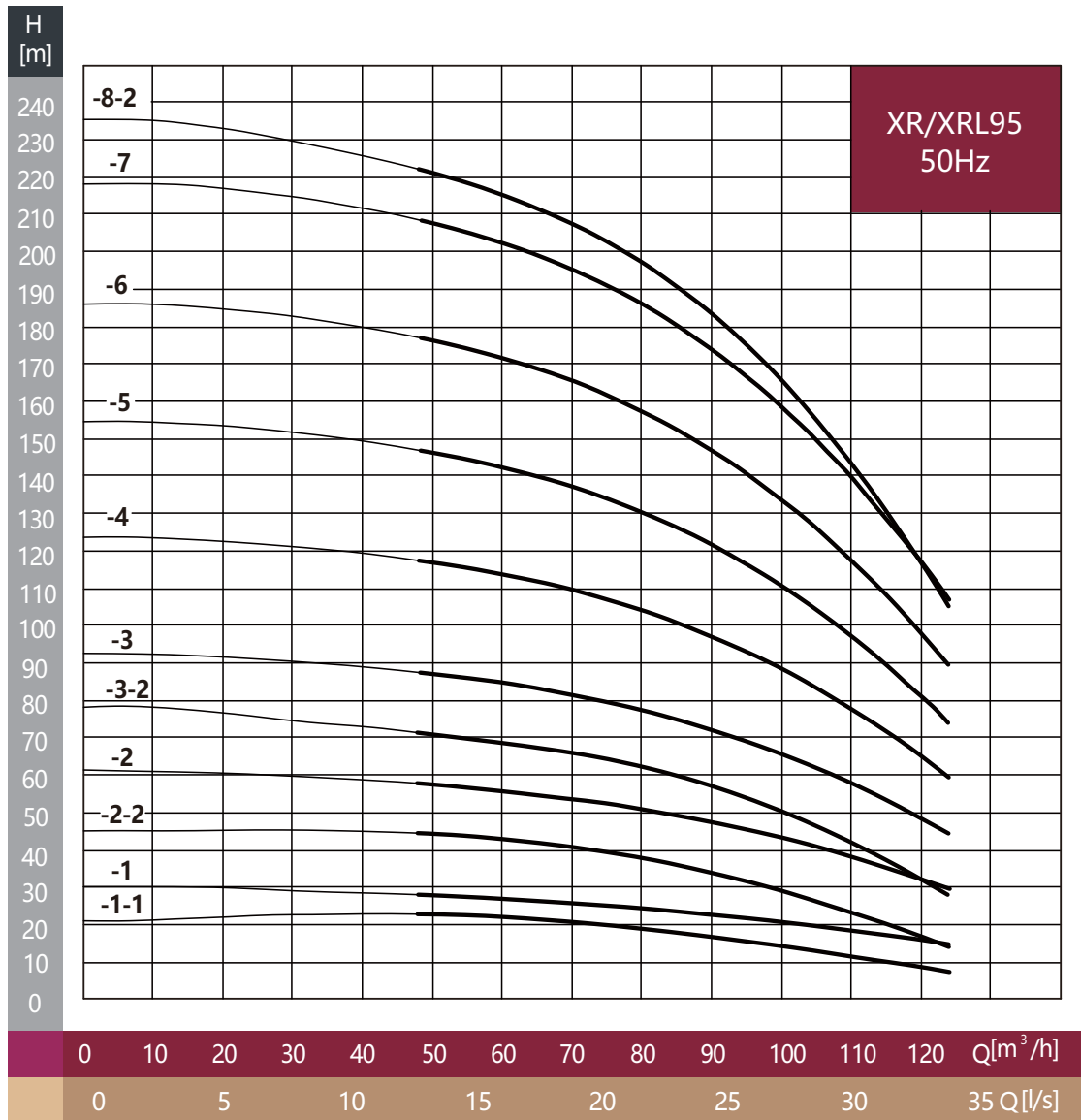
Installation Sketch



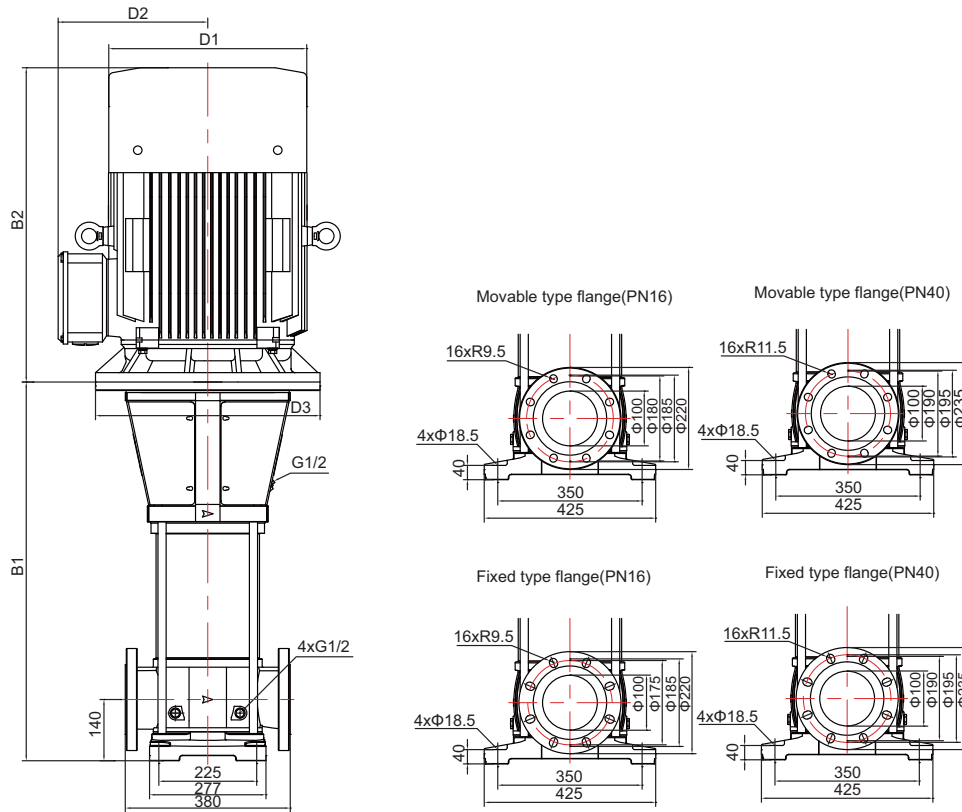
Dimension / Weight

MODEL	POWER		DIMENSION (UNIT: mm)					WEIGHT (kg)
	kW	HP	B1	B2	B1+B2	D1	D2	
XR(L)90-1-1	5.5	7.5	641	391	1032	220	134	109
XR(L)90-1	7.5	10	641	391	1032	260	159	111
XR(L)90-2-2	11	15	763	471	1234	314	204	170
XR(L)90-2	15	20	763	471	1234	314	204	182
XR(L)90-3-2	18.5	25	855	515	1370	314	204	200
XR(L)90-3	22	30	855	541	1396	314	204	214
XR(L)90-4-2	30	40	947	610	1557	402	300	321
XR(L)90-4	30	40	947	610	1557	402	300	321
XR(L)90-5-2	37	50	1039	667	1706	402	300	359
XR(L)90-5	37	50	1039	667	1706	402	300	359
XR(L)90-6-2	45	60	1131	709	1840	442	325	443
XR(L)90-6	45	60	1131	709	1840	442	325	443

Performance Curve



Installation Sketch



DIN Standard: PN10~PN40/DN100

Performance Parameter

(Note: 2-pole motor actual data)

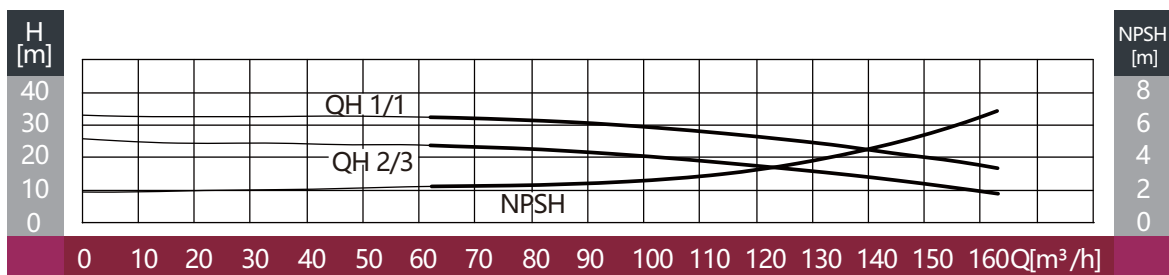
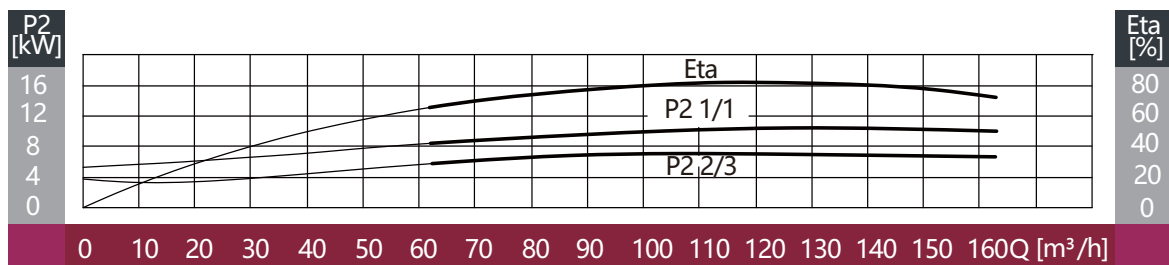
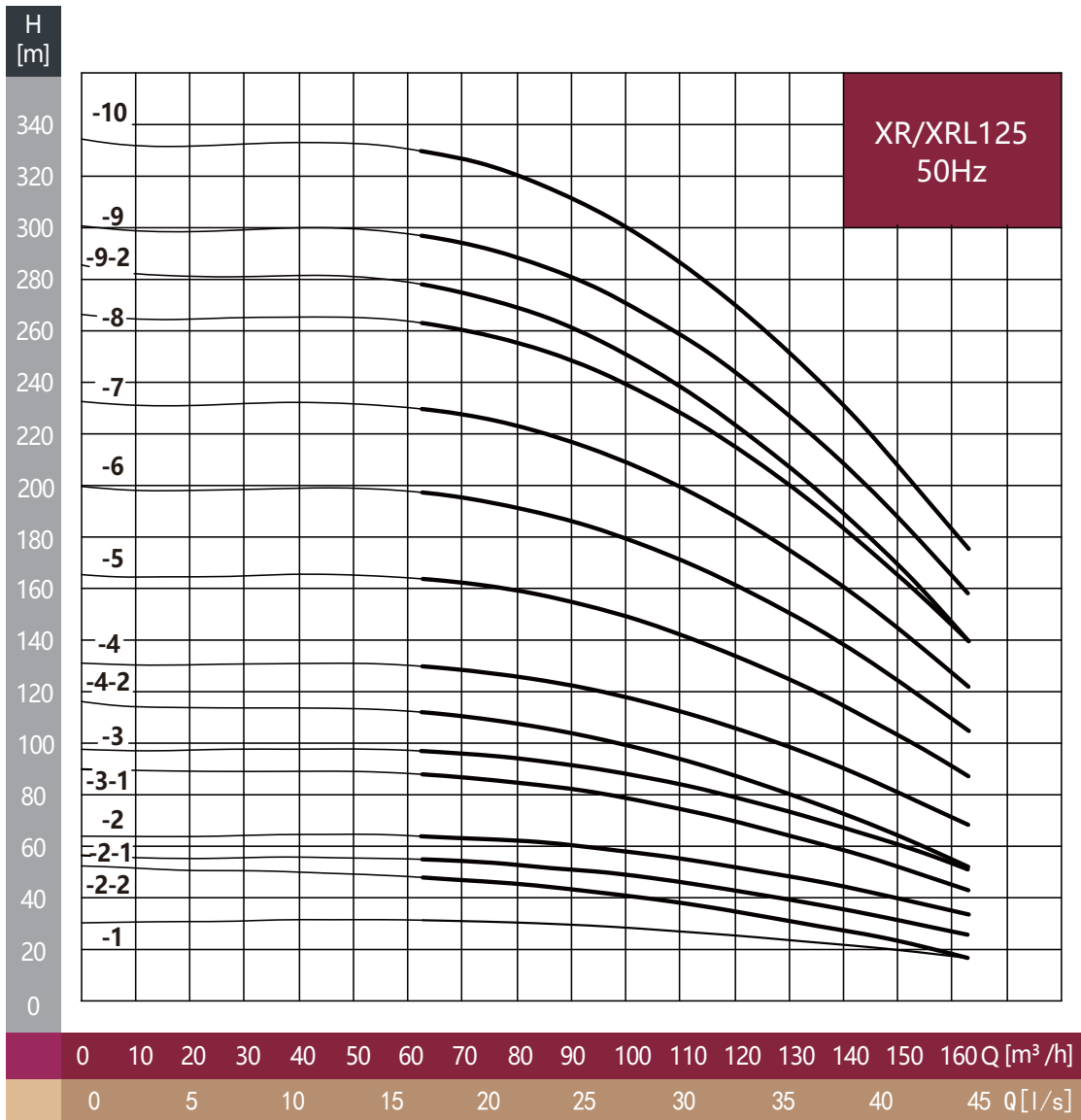
MODEL	Power (kW)	Inlet & Out let Dia.	η max (%)	Q (m ³ /h)	H (m)						
					47	60	70	80	95	110	124
XR/XRL95-1-1	5.5	DN100	82	H (m)	22	22	21	19	15	12	7
XR/XRL95-1	7.5				27	27	26	25	22	18	15
XR/XRL95-2-2	11				45	43	41	37	32	24	14
XR/XRL95-2	15				57	56	54	51	46	37	30
XR/XRL95-3-2	18.5				72	68	66	63	54	42	27
XR/XRL95-3	22				87	85	82	77	69	57	45
XR/XRL95-4	30				117	114	109	104	94	77	59
XR/XRL95-5	37				147	143	137	131	116	97	74
XR/XRL95-6	45				177	172	165	157	140	117	90
XR/XRL95-7	55				209	203	195	186	166	140	107
XR/XRL95-8-2	55				223	216	207	197	175	143	105

(Note: the size&weight data table are for XRL series)

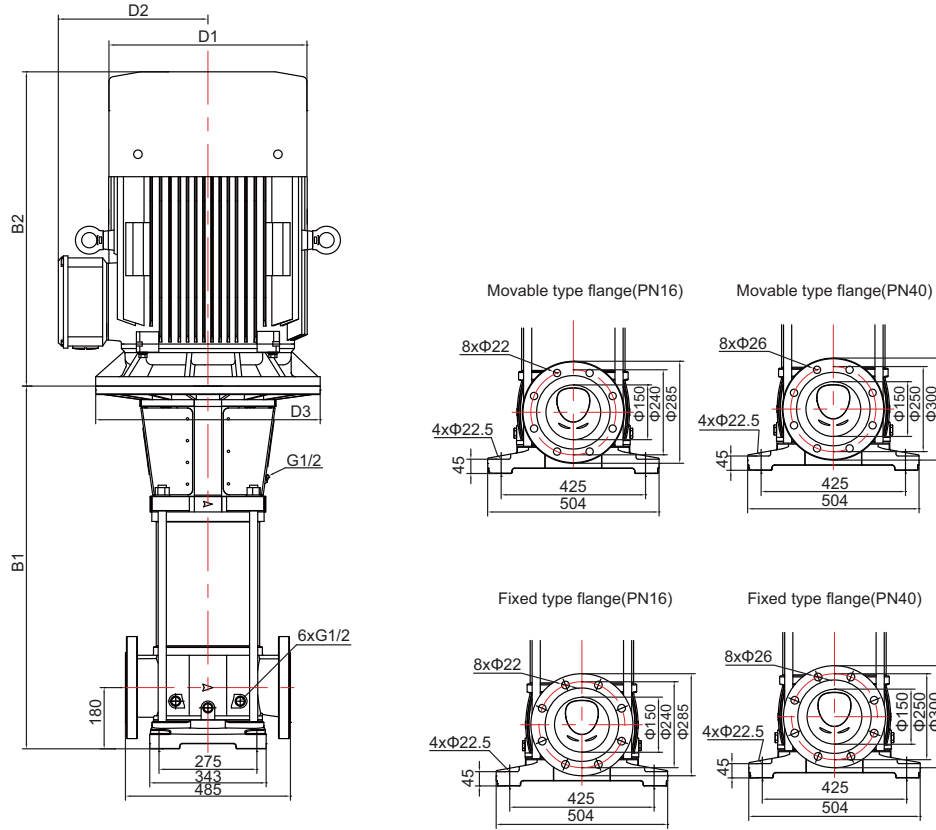
Size and Weight

Model	Motor [kW]	Size [mm]					Weight [kg]
		B1	B1+B2	D1	D2	D3	
XR/XRL95-1-1	5.5	671	1054	257	168	-	140
XR/XRL95-1	7.5	671	1054	257	168	-	150
XR/XRL95-2-2	11	806	1307	314	261	350	197
XR/XRL95-2	15	806	1307	314	261	350	208
XR/XRL95-3-2	18.5	910	1455	314	261	350	225
XR/XRL95-3	22	910	1487	355	273	350	240
XR/XRL95-4	30	1015	1667	397	315	400	362
XR/XRL95-5	37	1119	1771	397	315	400	395
XR/XRL95-6	45	1224	1918	450	335	450	475
XR/XRL95-7	55	1328	2091	485	367	550	585
XR/XRL95-8-2	55	1433	2196	485	367	550	592

Performance Curve



Installation Sketch



DIN Standard: PN10~PN40/DN150

Performance Parameter

(Note: 2-pole motor actual data)

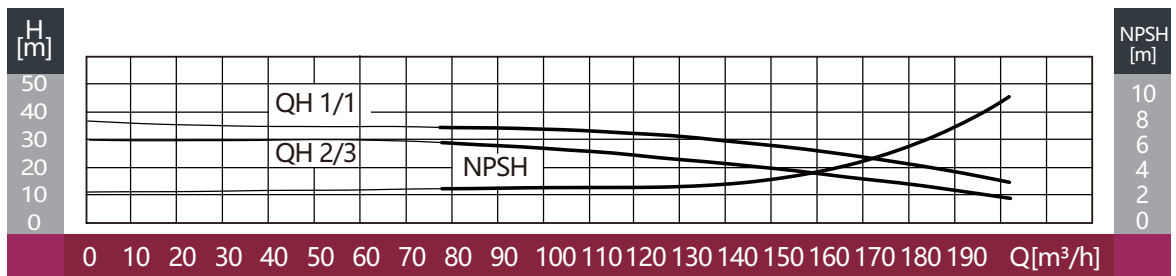
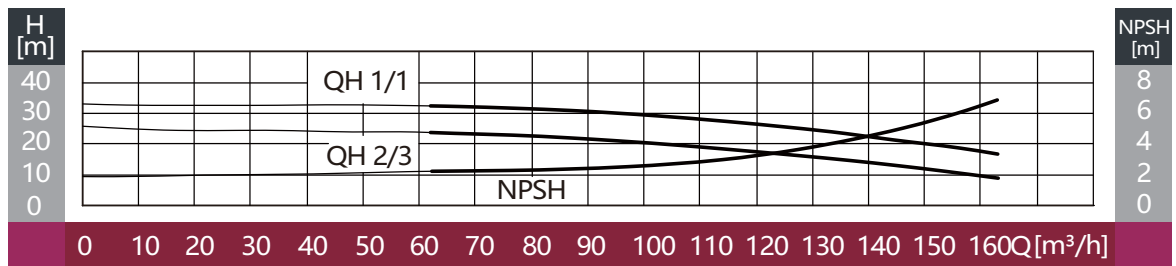
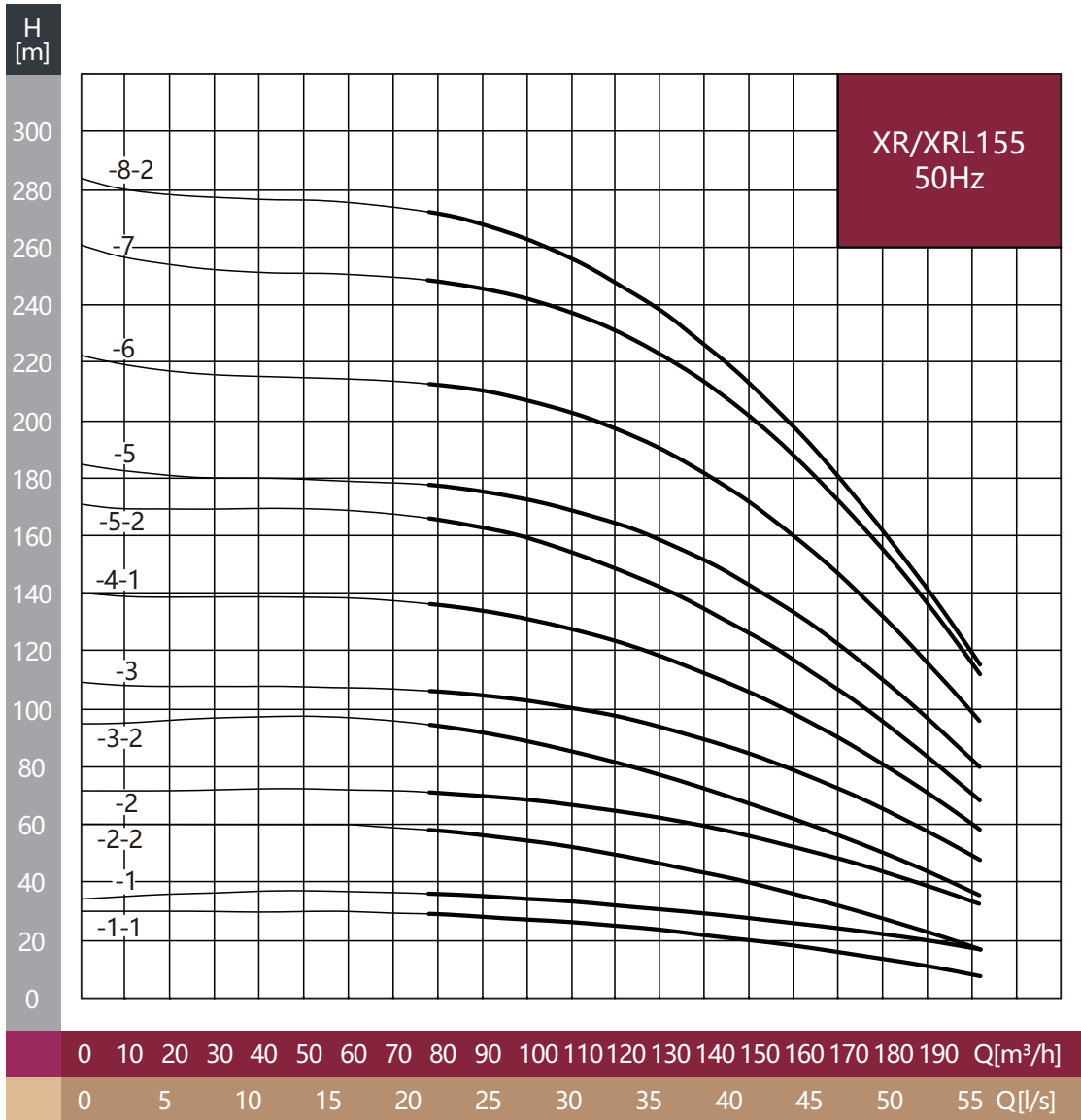
MODEL	Power (kW)	Inlet &Out let Dia	η max	Q (m ³ /h)	H (m)														
					62	80	90	100	110	125	140	150	163						
XR/XRL 125-1	11	DN150	82	H (m)	31	30	30	29	27	24	22	20	16						
XR/XRL 125-2-2	15				48	46	44	41	38	32	27	24	16						
XR/XRL 125-2-1	18.5				55	53	51	50	46	41	35	31	26						
XR/XRL 125-2	22				64	62	60	58	55	50	45	40	32						
XR/XRL 125-3-1	30				89	85	82	79	75	67	59	52	44						
XR/XRL 125-3	37				97	94	91	88	85	76	67	61	51						
XR/XRL 125-4-2	37				112	108	105	99	94	85	72	65	52						
XR/XRL 125-4	45				130	127	123	118	112	104	90	82	70						
XR/XRL 125-5	55				163	160	155	150	143	130	115	104	88						
XR/XRL 125-6	75				197	192	186	180	172	156	138	125	105						
XR/XRL 125-7	75				230	223	216	210	200	182	160	145	122						
XR/XRL 125-8	90				263	255	249	239	229	210	185	166	140						
XR/XRL 125-9-2	90				278	270	261	251	239	216	190	170	140						
XR/XRL 125-9	110				297	290	281	270	258	235	209	189	159						
XR/XRL 125-10	110				330	320	312	300	287	262	220	209	175						

(Note: the size&weight data table are for XRL series)

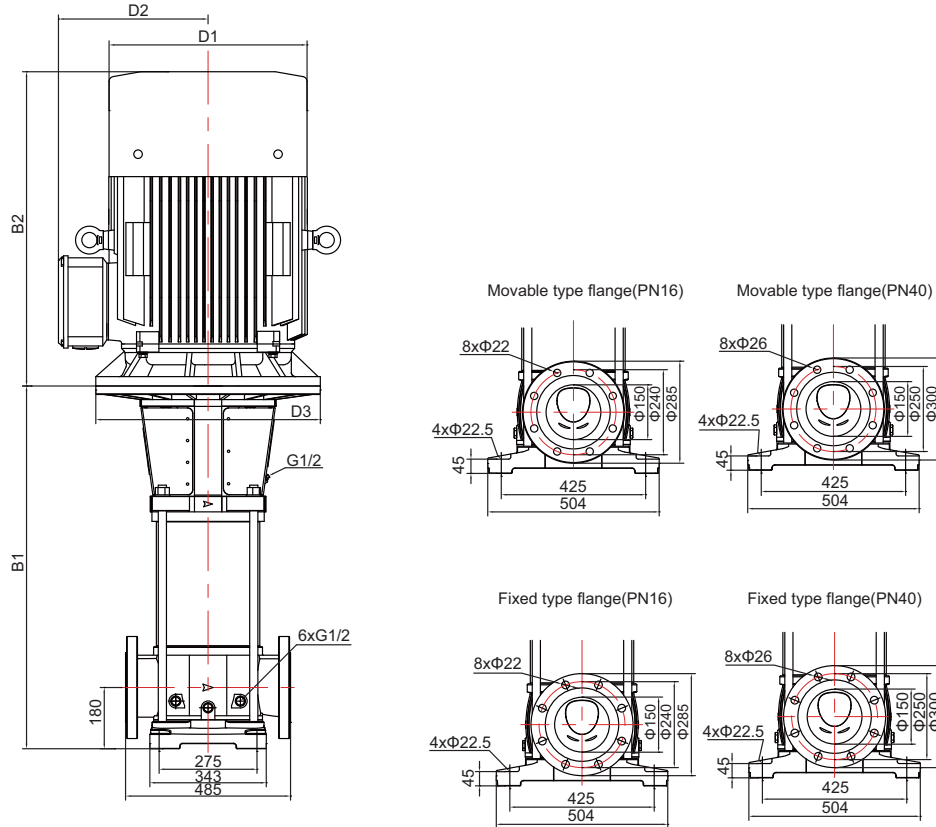
Size and Weight

Model	Motor [kW]	Size [mm]					Weight [kg]
		B1	B1+B2	D1	D2	D3	
XR/XRL125-1	11	768	1269	314	261	350	226
XR/XRL125-2-2	15	890	1391	314	261	350	248
XR/XRL125-2-1	18.5	890	1435	314	261	350	261
XR/XRL125-2	22	890	1467	355	273	350	276
XR/XRL125-3-1	30	1012	1664	397	315	400	403
XR/XRL125-3	37	1012	1664	397	315	400	428
XR/XRL125-4-2	37	1134	1786	397	315	400	438
XR/XRL125-4	45	1164	1858	450	335	450	515
XR/XRL125-5	55	1286	2049	485	367	550	625
XR/XRL125-6	75	1408	2239	547	410	550	745
XR/XRL125-7	75	1530	2361	547	410	550	755
XR/XRL125-8	90	1652	2534	547	410	550	850
XR/XRL125-9-2	90	1774	2656	547	410	550	860
XR/XRL125-9	110	1784	2824	625	530	660	1045
XR/XRL125-10	110	1906	2946	625	530	660	1055

Performance Curve



Installation Sketch



DIN Standard: PN10~PN40/DN150

Performance Parameter

(Note: 2-pole motor actual data)

型号	配套功率 (kW)	进出口口径	η_{max} (%)	Q (m ³ /h)	Q (m ³ /h)														
					77	90	100	110	120	130	140	155	170	180	190	202			
XR/XRL155-1-1	11	DN150	85	H (m)	29	29	28	26	25	23	22	19	15	14	10	8			
XR/XRL155-1	15				36	35	34	33	32	30	29	26	25	23	20	17			
XR/XRL155-2-2	22				58	56	55	52	50	46	44	37	32	27	24	17			
XR/XRL155-2	30				71	70	69	67	65	62	59	54	49	45	38	33			
XR/XRL155-3-2	37				95	91	89	85	82	77	72	64	56	50	44	35			
XR/XRL155-3	45				105	105	103	101	97	94	90	82	73	66	57	48			
XR/XRL155-4-1	55				137	132	131	129	124	118	113	102	90	82	71	58			
XR/XRL155-5-2	75				166	162	159	154	149	142	135	121	107	95	85	69			
XR/XRL155-5	75				177	175	172	170	165	158	151	138	123	111	97	80			
XR/XRL155-6	90				211	210	207	202	197	190	182	165	147	133	116	95			
XR/XRL155-7	110				249	246	242	237	231	223	214	195	174	155	136	112			
XR/XRL155-8-2	110				271	268	262	256	249	238	226	205	181	164	142	115			

(Note: the size&weight data table are for XRL series)

Size and Weight

型号	电机 [kW]	尺寸 [mm]					重量 [kg]
		B1	B1+B2	D1	D2	D3	
XR/XRL155-1-1	11	768	1269	314	261	350	227
XR/XRL155-1	15	768	1269	314	261	350	239
XR/XRL155-2-2	22	890	1467	355	273	350	277
XR/XRL155-2	30	890	1542	397	315	400	394
XR/XRL155-3-2	37	1012	1664	397	315	400	429
XR/XRL155-3	45	1042	1736	450	335	450	505
XR/XRL155-4-1	55	1164	1927	485	367	550	310
XR/XRL155-5-2	75	1286	2117	547	410	550	738
XR/XRL155-5	75	1286	2117	547	410	550	738
XR/XRL155-6	90	1408	2290	547	410	550	835
XR/XRL155-7	110	1540	2580	625	530	660	1030
XR/XRL155-8-2	110	1662	2702	625	530	660	1040



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