



▲ Applications

- ECDL vertical stainless steel multistage centrifugal pumps applied high quality stainless steel material, and the mechanical seal is made of hard alloy. Long service life, light-corrosion resistance and high efficiency. Therefore, it is suitable for various industries. Lesser space requirement, space-saver. It can also be equipped with related protectors to effectively prevent from dry-running, overheat, out-of-phase and overload circumstances.
- **Water supply:** Host water supply pipe and booster of multi-storey building.
- **Industrial pressure boosting:** Air conditioning and cooling systems. Boiler feed and condensation systems. High pressure rinsing systems.
- **Water treatment:** Filters and reverse osmosis systems, distillation systems, separators.
- **Agriculture irrigation:** Large area irrigation, spray irrigation.

▲ Operating Conditions

- For clean non-flammable and non-explosive liquid, without solid, filamentary and abrasive matter.
- Ambient temperature: 0~+50°C.
- Liquid temperature: Temperature range: -20°C~+70°C.
Hot water range: +70°C~+120°C.
- Max. Working pressure: 25~33 bar.
- Output range: 0.5HP~60HP(0.37KW~45KW)
- Remarks: If it is used for brewery or petro plants, we strongly recommend to replace standard motor for explosion proof motor.

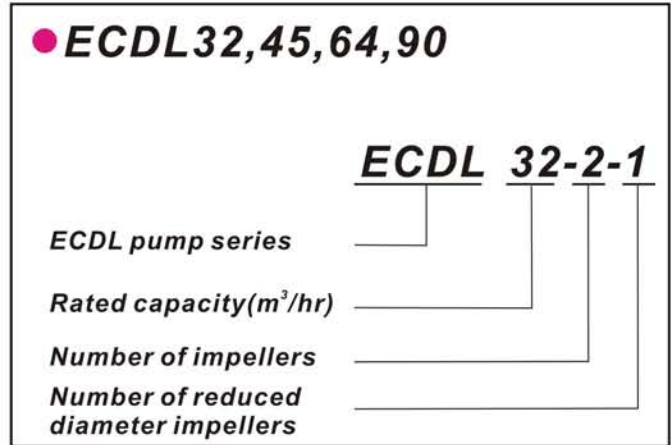
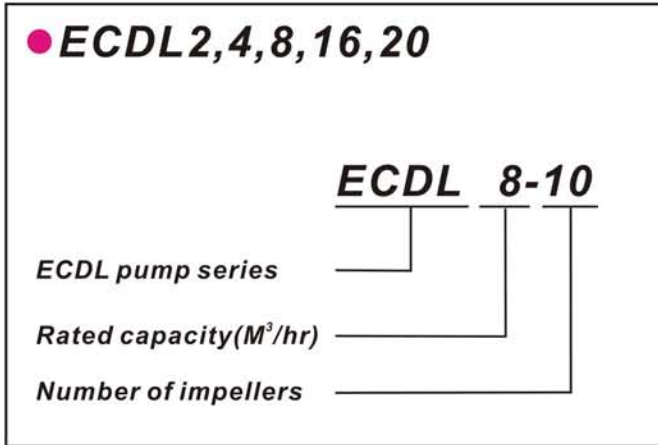
▲ Motor Spec.

- Totally enclosed fan cooled 2 pole, IEC standard motor.
- Motor range: 2P ; 50HZ.
- Protection IP54, IP55.
- Insulation class E, B, F.
- Three phase 220V~660V.
- High efficiency electric motor.

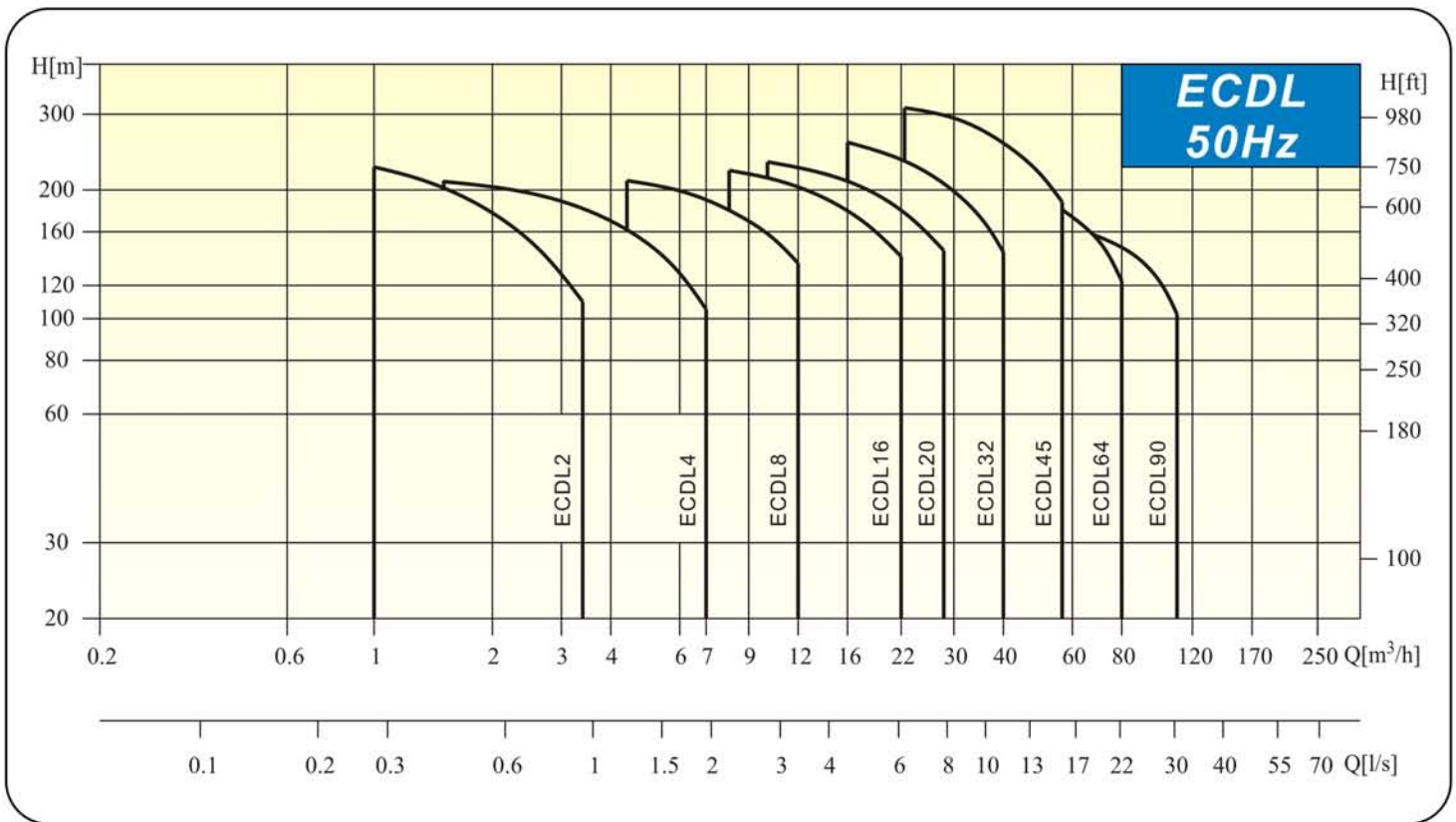


OPTIONAL
ECDL pump with explosion-proof motor

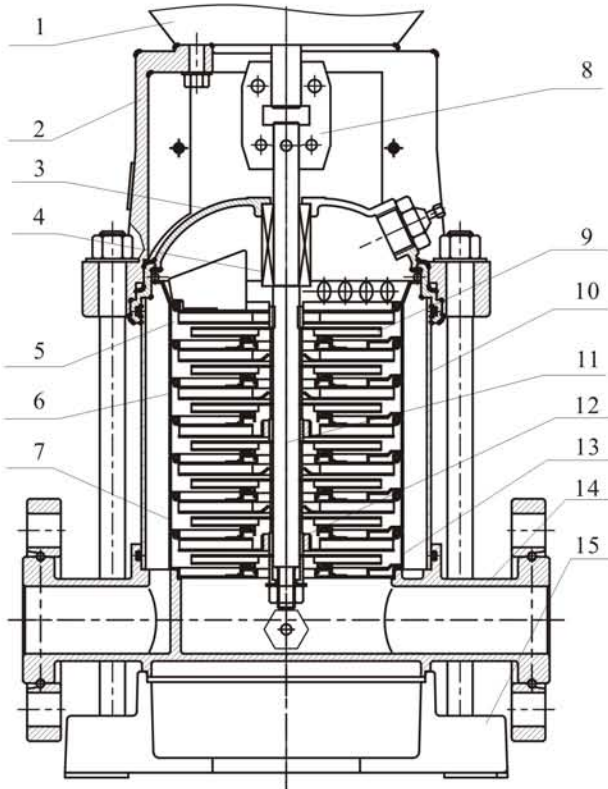
▲ Model Code



▲ Performance Ranges



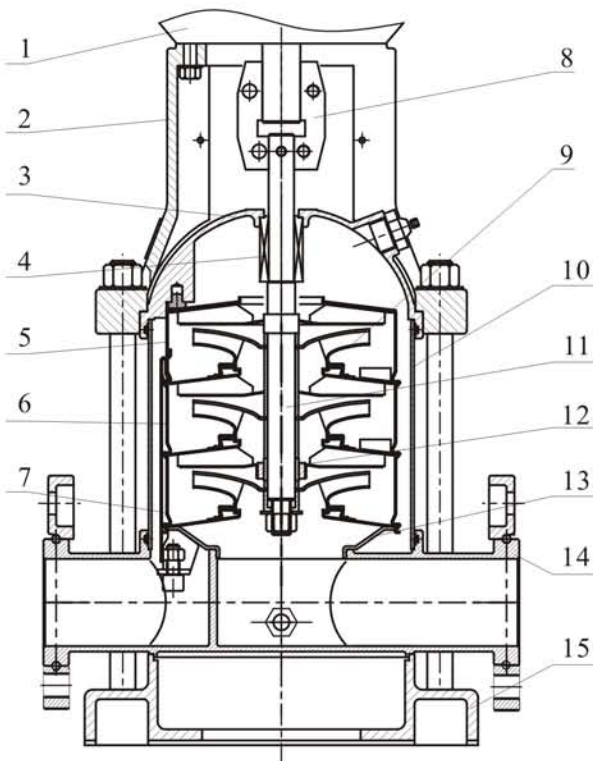
ECDL sectional view



ECDL2、4

No	Description	Material	AISI/ASTM
1	Motor	Assembling unit	
2	Support	Cast Iron/ Ductile iron	ASTM25B ASTM70-50-05
3	seal seat	Stainless Steel	AISI304
4	Mechanical seal	Assembling unit	
5	Outlet guide vane	Stainless Steel	AISI304
6	Guide vane	Stainless Steel	AISI304
7	Support guide vane	Stainless Steel	AISI304
8	Coupling	Ductile iron	ASTM70-50-05
9	Impeller	Stainless Steel	AISI304
10	Shell	Stainless Steel	AISI304
11	Pump Shaft	Stainless Steel	AISI304 AISI316L
12	Bearing	Tungsten Carbide	
13	Inlet guide vane	Stainless Steel	AISI304
14	Inlet & outlet seat	Stainless Steel	AISI304
15	Seat	Cast Iron	ASTM25B

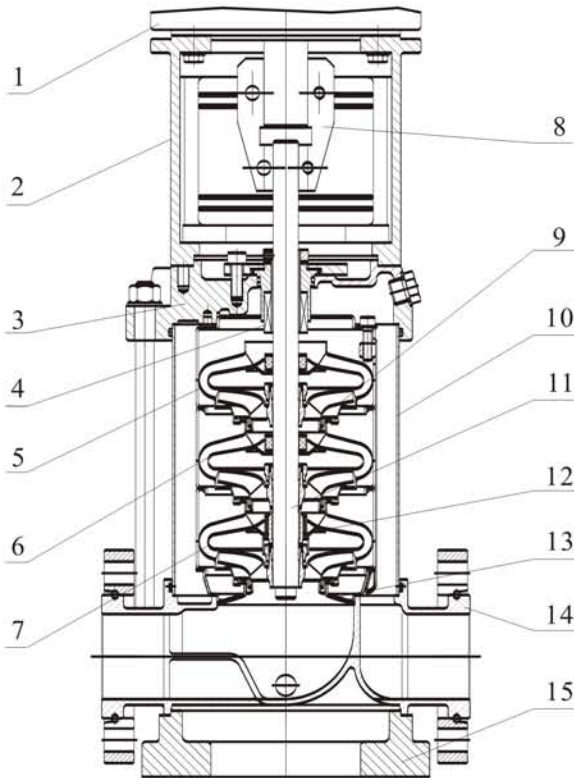
ECDL sectional view



ECDL8、16、20

No	Description	Material	AISI/ASTM
1	Motor	Assembling unit	
2	Support	Cast Iron/ Ductile iron	ASTM25B ASTM70-50-05
3	seal seat	Stainless Steel	AISI304
4	Mechanical seal	Assembling unit	
5	Outlet guide vane	Stainless Steel	AISI304
6	Guide vane	Stainless Steel	AISI304
7	Support guide vane	Stainless Steel	AISI304
8	Coupling	Ductile iron	ASTM70-50-05
9	Impeller	Stainless Steel	AISI304
10	Shell	Stainless Steel	AISI304
11	Pump Shaft	Stainless Steel	AISI304 AISI316L
12	Bearing	Tungsten Carbide	
13	Inlet guide vane	Stainless Steel	AISI304
14	Inlet & outlet seat	Stainless Steel	AISI304
15	Seat	Cast Iron	ASTM25B

ECDL sectional view



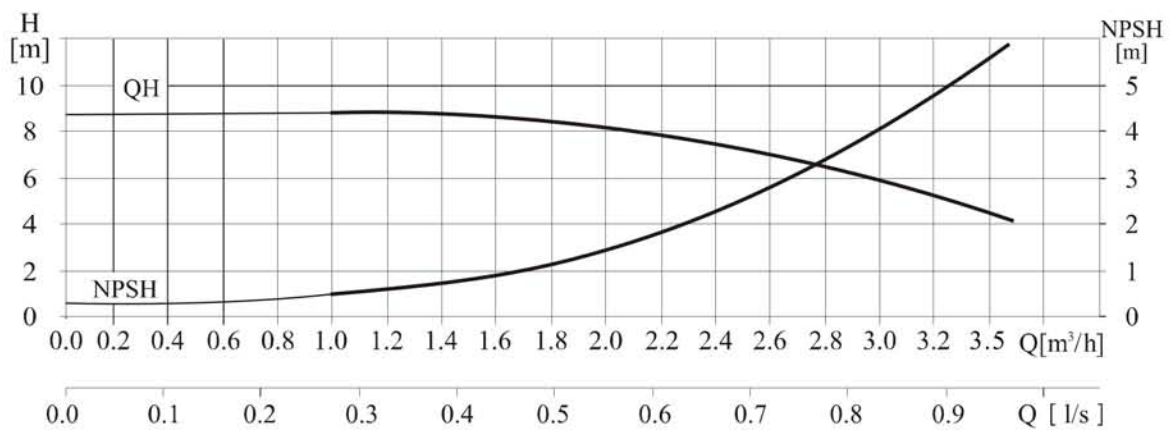
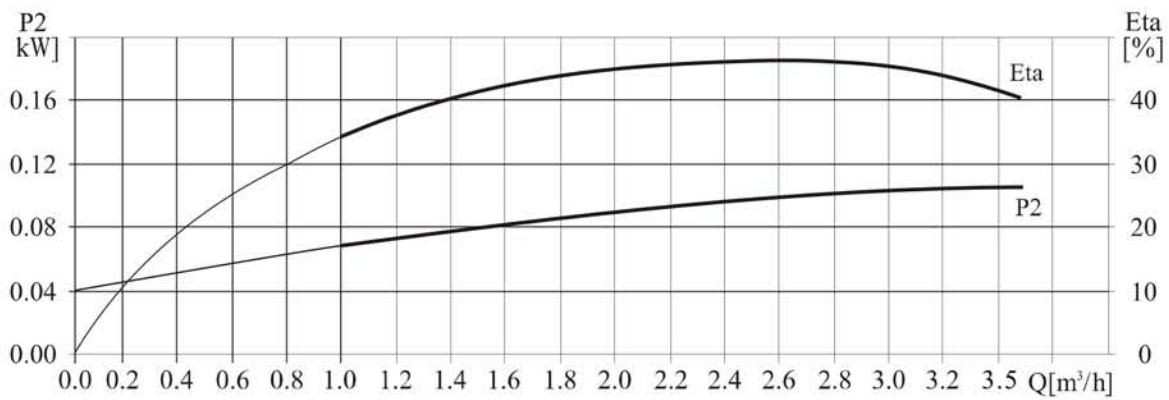
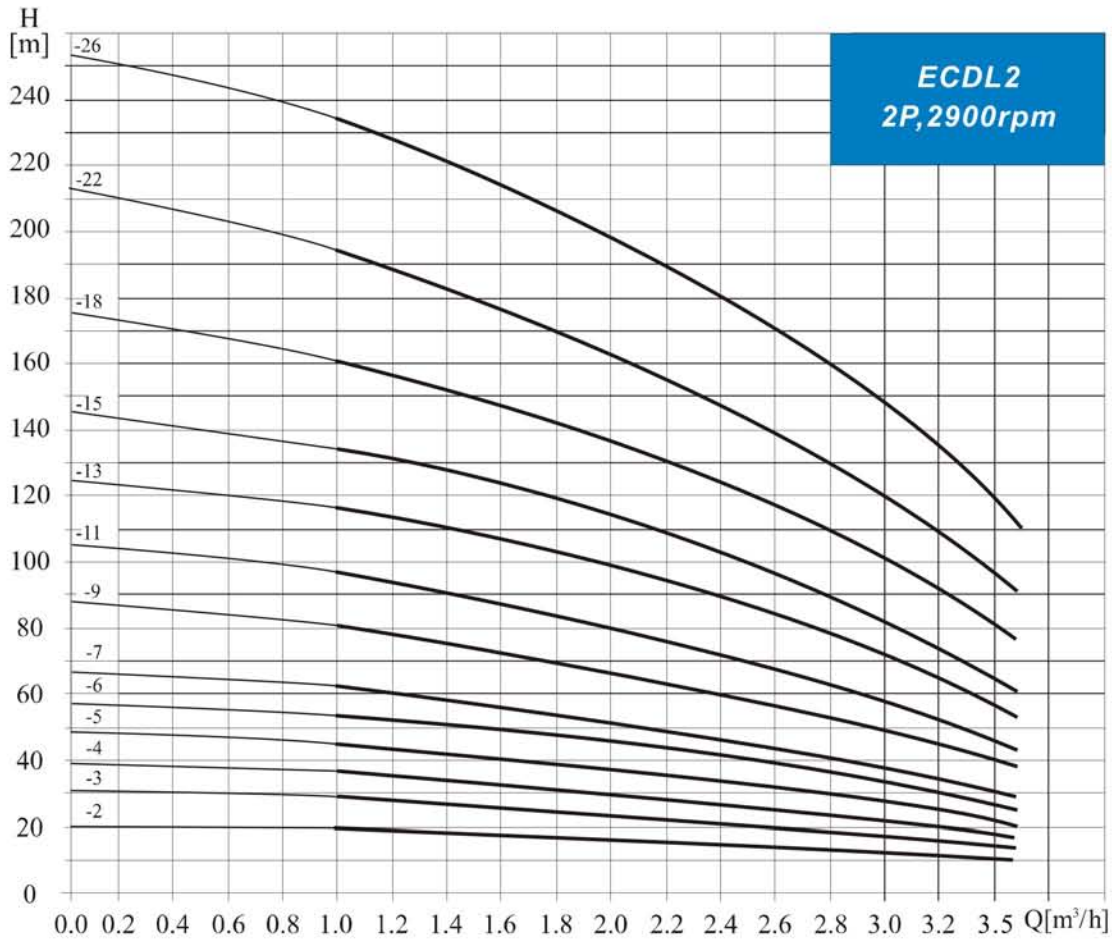
ECDL32、45、64、90

No	Description	Material	AISI/ASTM
1	Motor	Assembling unit	
2	Support	Cast Iron/ Ductile iron	ASTM25B
3	seal seat	Stainless Steel	AISI304
4	Mechanical seal	Assembling unit	
5	Outlet guide vane	Stainless Steel	AISI304
6	Guide vane	Stainless Steel	AISI304
7	Support guide vane	Stainless Steel	AISI304
8	Coupling	Ductile iron	ASTM70-50-05
9	Impeller	Stainless Steel	AISI304
10	Shell	Stainless Steel	AISI304
11	Pump Shaft	Stainless Steel	AISI304 AISI316L AISI431
12	Bearing	Tungsten Carbide	
13	Inlet guide vane	Stainless Steel	AISI304
14	Inlet & outlet seat	Stainless Steel	AISI304
15	Seat	Cast Iron	ASTM25B

▲ Product Ranges

SCOPE	ECDL2	ECDL4	ECDL8	ECDL16	ECDL20	ECDL32	ECDL45	ECDL64	ECDL90
Rated Capacity M ³ /h	2	4	8	16	20	32	45	64	90
Capacity Scope M ³ /h	1~3.2	2~4.8	5~13	9~24	10~29	14~40	20~56	30~85	40~120
Max. Efficiency %	45	58	66	68	69	77	78	80	81
Max. Pressure bar	25	25	25	25	25	28	26	20	20
Motor Power KW	0.37~3.0	0.37~4.0	0.37~7.5	1.1~15	1.1~18.5	1.5~30	3~45	4~45	5.5~45
Temp. Scope °C	-20°C~+120°C								
Flange DN	DN25 DN32	DN25 DN32	DN40	DN50	DN50	DN65	DN80	DN100	DN100
Column pipe thread	G1 G11/4	G1 G11/4	G11/2 G2	G21/2	G21/2	—	—	—	—
Cutting ferrule joint	G11/4 DN32	G11/4 DN32	G2 DN50	G2 DN50	G2 DN50	—	—	—	—

ECDL2 Performance Curves

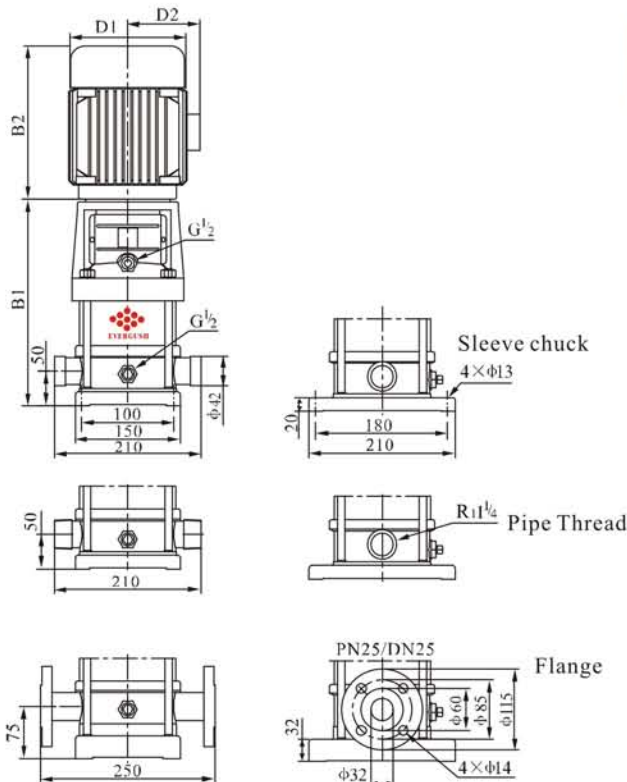


ECDL2 Technical Data

▲ Performance table

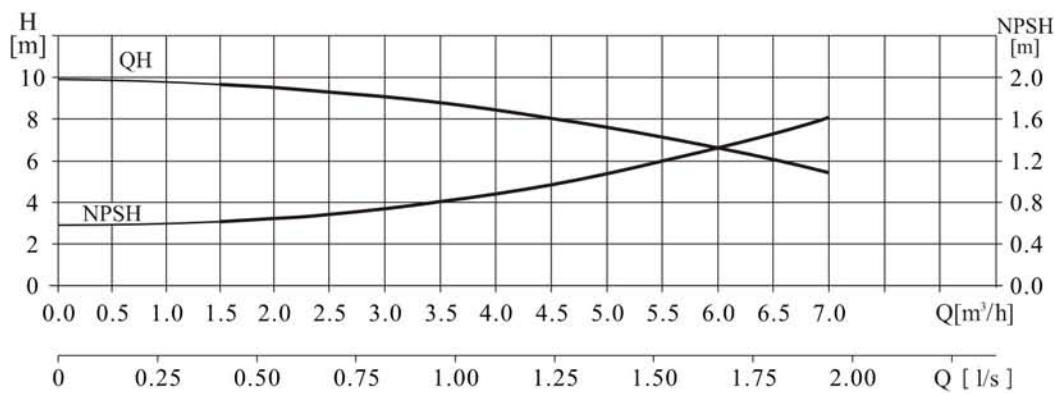
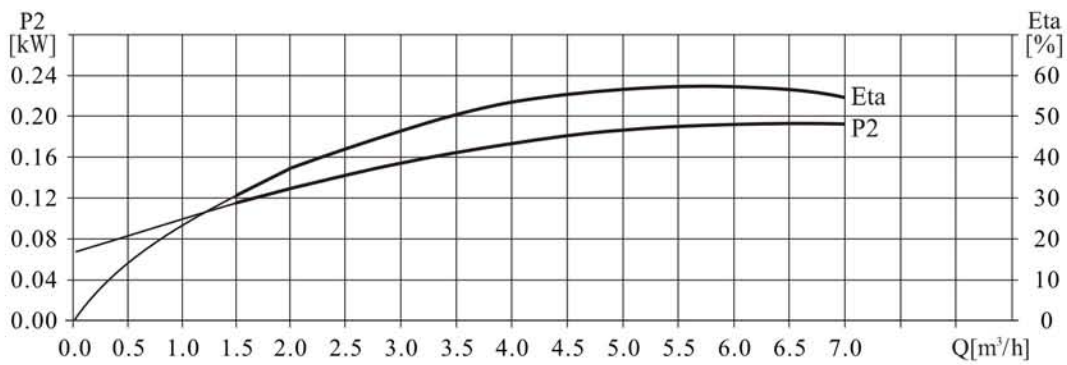
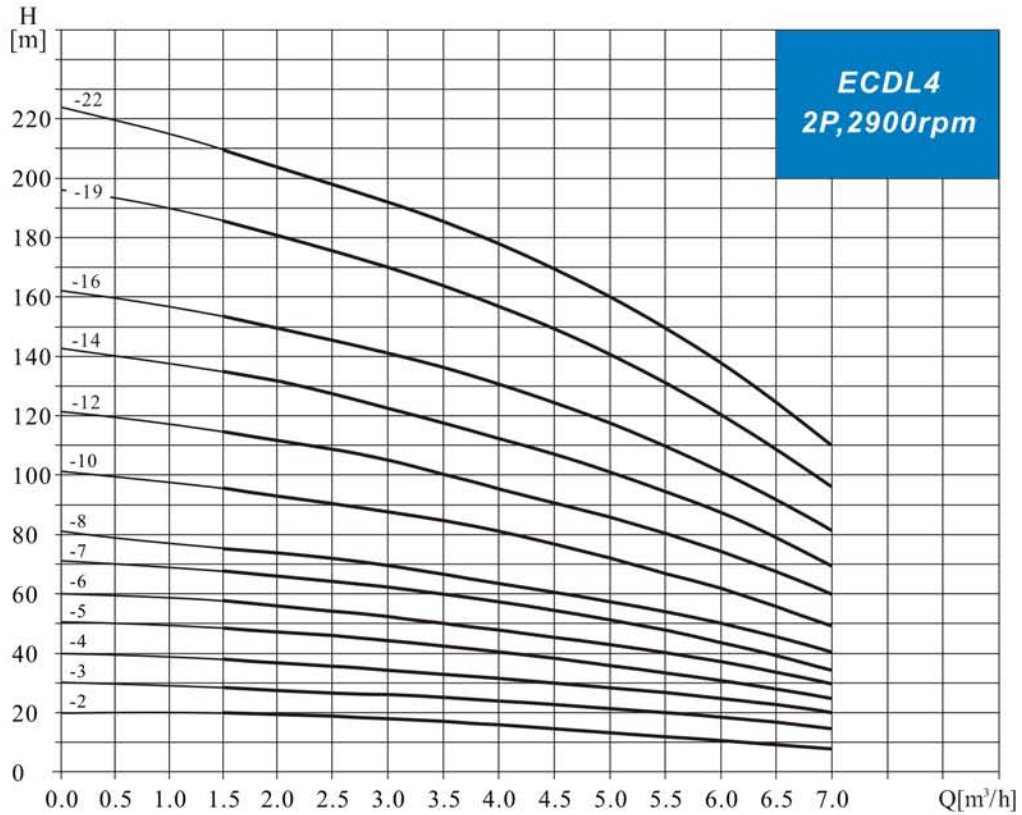
Model	Associated motor(kW)	Q (m ³ /h)	1	1.2	1.6	2.0	2.4	2.8	3.2	3.5
ECDL2-2	0.37	H (m)	18	17	16	15	13	12	10	8
ECDL2-3	0.37		27	26	24	22	20	18	15	12
ECDL2-4	0.55		36	35	33	30	26	24	20	16
ECDL2-5	0.55		45	43	40	37	33	30	24	20
ECDL2-6	0.75		53	52	50	45	40	36	30	24
ECDL2-7	0.75		63	61	57	52	47	41	35	28
ECDL2-9	1.1		80	78	73	67	61	54	45	37
ECDL2-11	1.1		98	95	89	82	73	64	54	44
ECDL2-13	1.5		116	114	106	98	89	78	65	52
ECDL2-15	1.5		134	130	123	112	100	90	73	60
ECDL2-18	2.2		161	157	148	136	121	108	91	76
ECDL2-22	2.2		197	192	180	165	148	130	110	90
ECDL2-26	3.0		232	228	214	198	179	158	130	110

▲ Dimensions and Weight



Model	Size (mm)					Weight(kg)
	B1	B2	B1+B2	D1	D2	
ECDL2-2	258	225	483	148	117	20
ECDL2-3	276	225	501	148	117	20
ECDL2-4	294	225	519	148	117	22
ECDL2-5	312	225	537	148	117	23
ECDL2-6	340	245	585	170	142	26
ECDL2-7	358	245	603	170	142	26
ECDL2-9	394	245	639	170	142	28
ECDL2-11	430	245	675	170	142	29
ECDL2-13	476	290	766	190	155	35
ECDL2-15	512	290	802	190	155	36
ECDL2-18	566	290	856	190	155	41
ECDL2-22	638	290	928	190	155	42
ECDL2-26	720	345	1065	197	165	52

ECDL4 Performance Curves

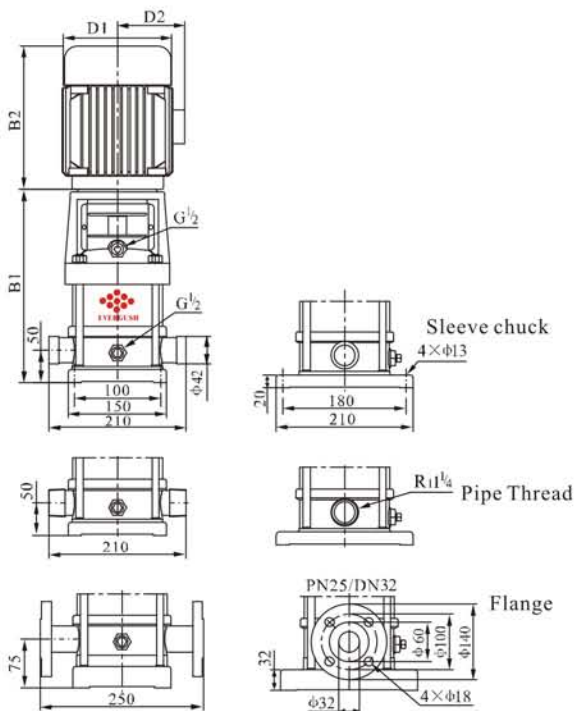


ECDL4 Technical Data

▲ Performance table

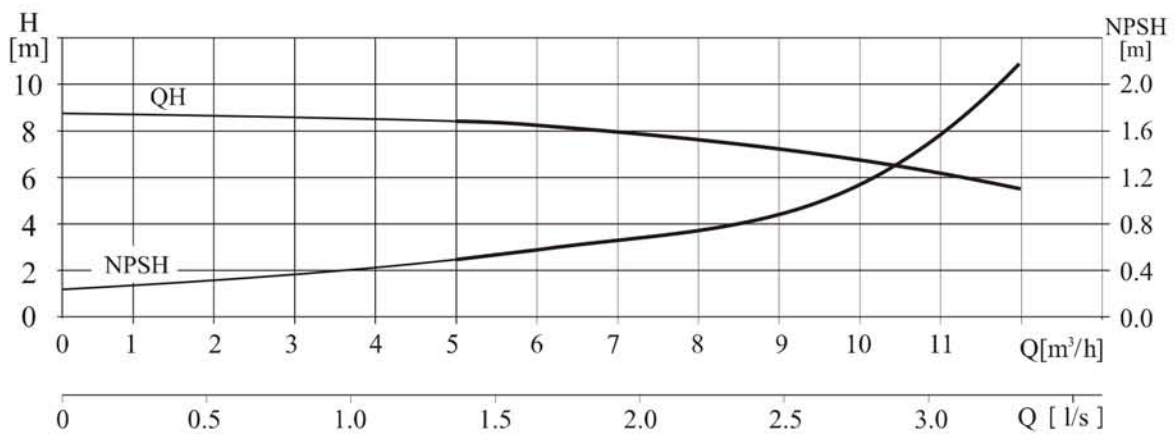
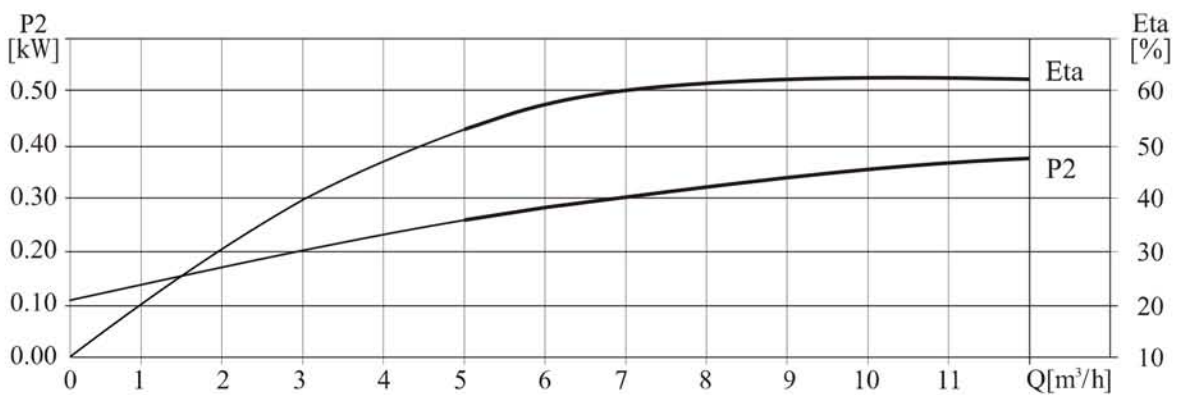
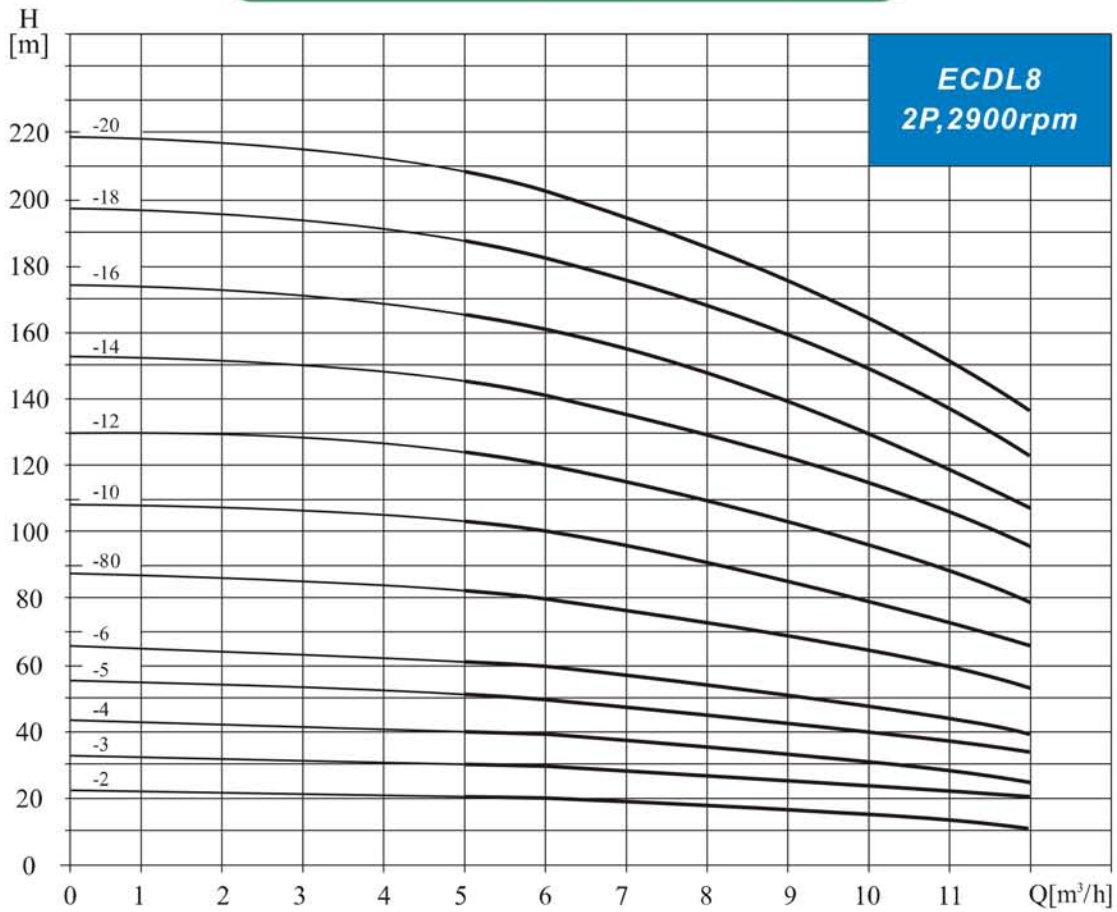
Model	Associated motor(kW)	Q (m ³ /h)	1.5	2.0	3.0	4.0	5.0	6.0	7.0
ECDL4-2	0.37	H (m)	19	18	17	15	13	10	8
ECDL4-3	0.55		28	27	26	24	20	18	13
ECDL4-4	0.75		38	36	34	32	27	24	19
ECDL4-5	1.1		47	45	43	40	34	31	23
ECDL4-6	1.1		56	54	52	48	41	37	28
ECDL4-7	1.5		66	63	61	56	48	43	33
ECDL4-8	1.5		74	72	70	64	55	50	38
ECDL4-10	2.2		96	90	87	81	71	62	48
ECDL4-12	2.2		114	108	104	95	85	75	58
ECDL4-14	3.0		136	126	122	112	101	89	68
ECDL4-16	3.0		152	144	140	129	115	101	78
ECDL4-19	4.0		183	171	168	153	137	122	93
ECDL4-22	4.0		211	200	192	178	160	138	108

▲ Dimensions and Weight



Model	Size (mm)					Weight(kg)
	B1	B2	B1+B2	D1	D2	
ECDL4-2	276	225	501	148	117	21
ECDL4-3	303	225	528	148	117	22
ECDL4-4	340	245	585	170	142	25
ECDL4-5	367	245	612	170	142	27
ECDL4-6	394	245	639	170	142	27
ECDL4-7	431	290	721	190	155	33
ECDL4-8	458	290	748	190	155	33
ECDL4-10	512	290	802	190	155	37
ECDL4-12	566	290	856	190	155	38
ECDL4-14	630	345	975	197	165	46
ECDL4-16	684	345	1029	197	165	48
ECDL4-19	765	355	1120	230	188	57
ECDL4-22	846	355	1201	230	188	59

ECDL8 Performance Curves

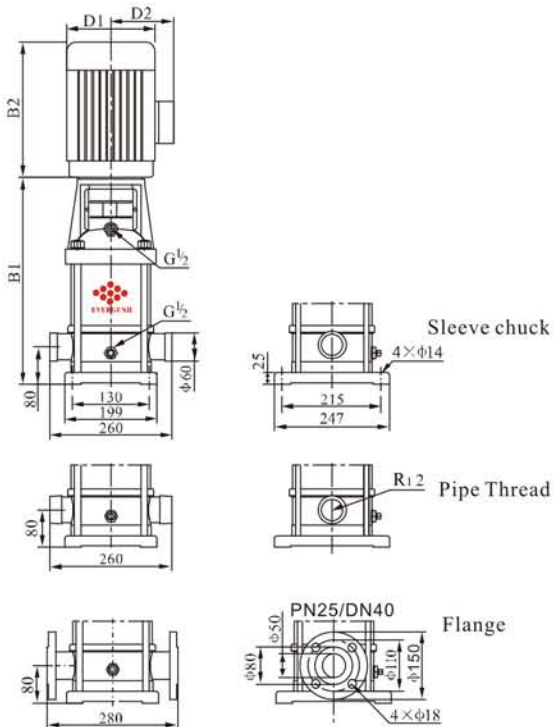


ECDL8 Technical Data

▲ Performance table

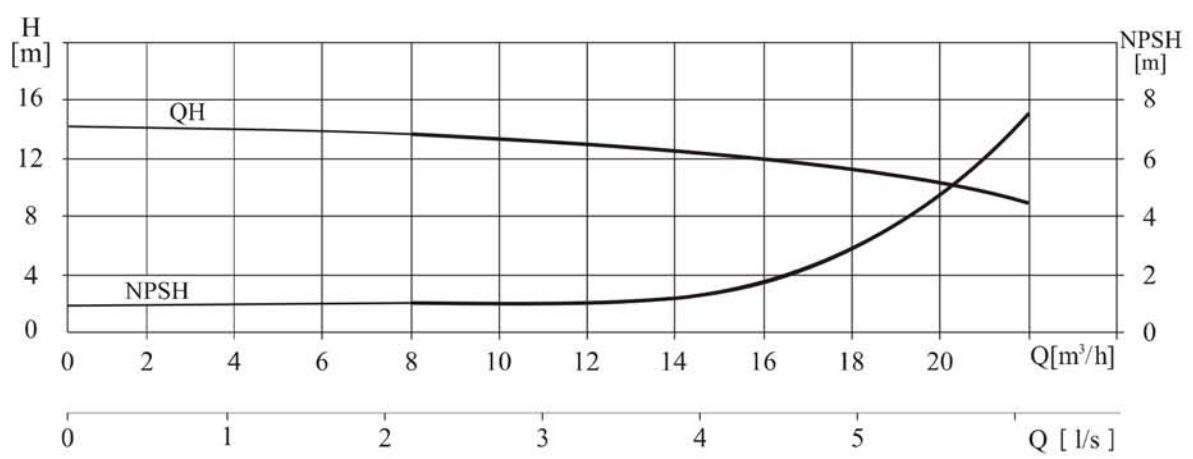
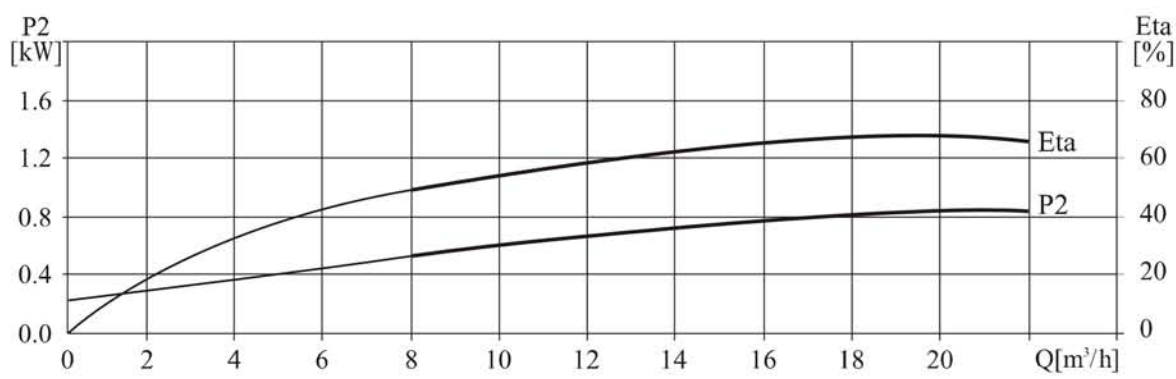
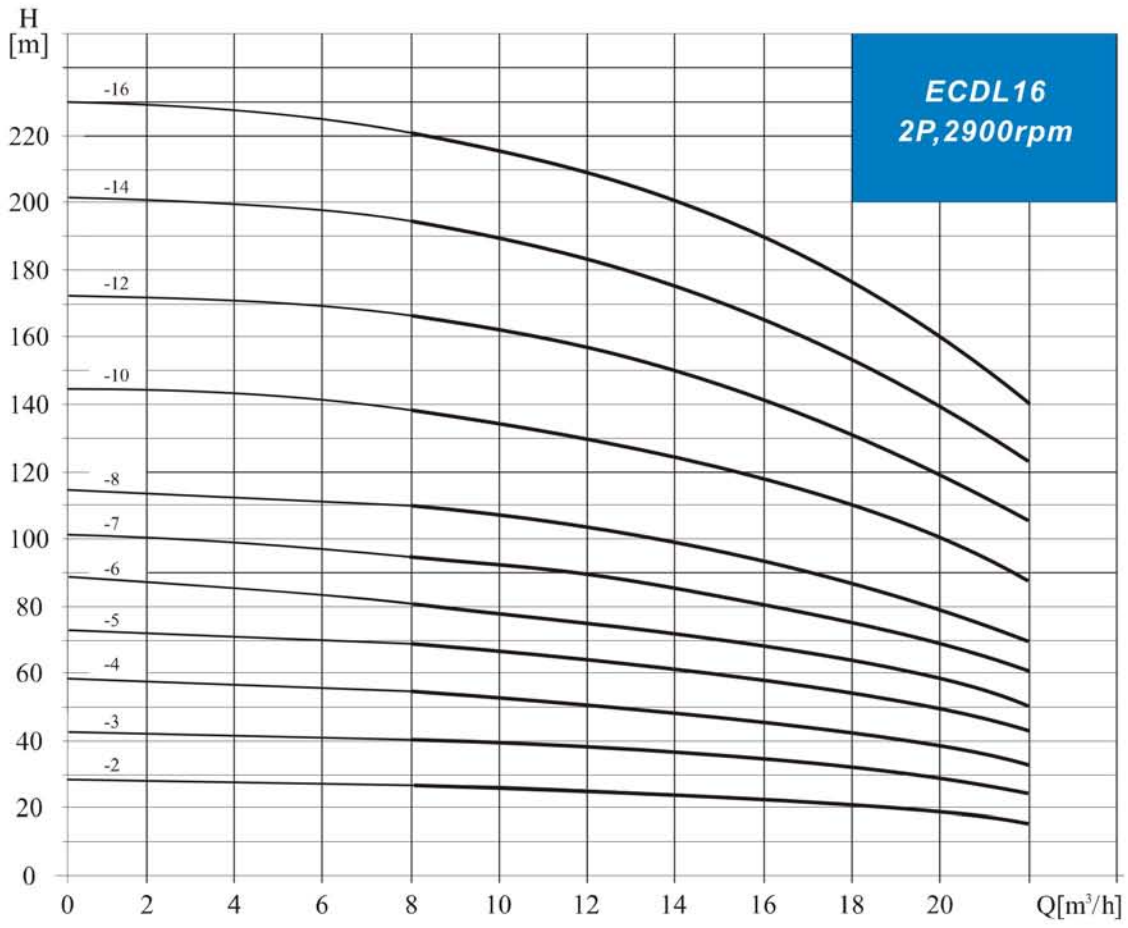
Model	Associated motor(kW)	Q (m ³ /h)	5	6	7	8	9	10	11	12
ECDL8-2	0.75	H (m)	20	19.5	19	18	17	16	14	13
ECDL8-3	1.1		30	29.5	28.5	27	25	24	21	19
ECDL8-4	1.5		41	39.5	38	36	34	32	28	26
ECDL8-5	2.2		52	50	48	45	42	40	36	32
ECDL8-6	2.2		62	60	57	54	51	48	43	39
ECDL8-8	3.0		83	80	77	73	69	65	58	52
ECDL8-10	4.0		104	100	97	92	87	81	73	65
ECDL8-12	4.0		124	120	116	111	104	92	87	78
ECDL8-14	5.5		145	141	136	130	122	113	102	92
ECDL8-16	5.5		166	161	156	148	139	130	118	106
ECDL8-18	7.5		187	182	175	167	157	146	134	120
ECDL8-20	7.5		208	202	195	186	175	163	150	135

▲ Dimensions and Weight



Model	Size (mm)					Weight(kg)
	B1	B2	B1+B2	D1	D2	
ECDL8-2	347	245	592	170	142	32
ECDL8-3	377	245	622	170	142	34
ECDL8-4	417	290	707	190	155	40
ECDL8-5	447	290	737	190	155	44
ECDL8-6	477	290	767	190	155	45
ECDL8-8	547	345	892	197	165	53
ECDL8-10	607	355	962	230	188	64
ECDL8-12	667	355	1022	230	188	66
ECDL8-14	747	390	1137	260	208	81
ECDL8-16	807	390	1197	260	208	84
ECDL8-18	867	390	1257	260	208	93
ECDL8-20	927	390	1317	260	208	94

ECDL16 Performance Curves

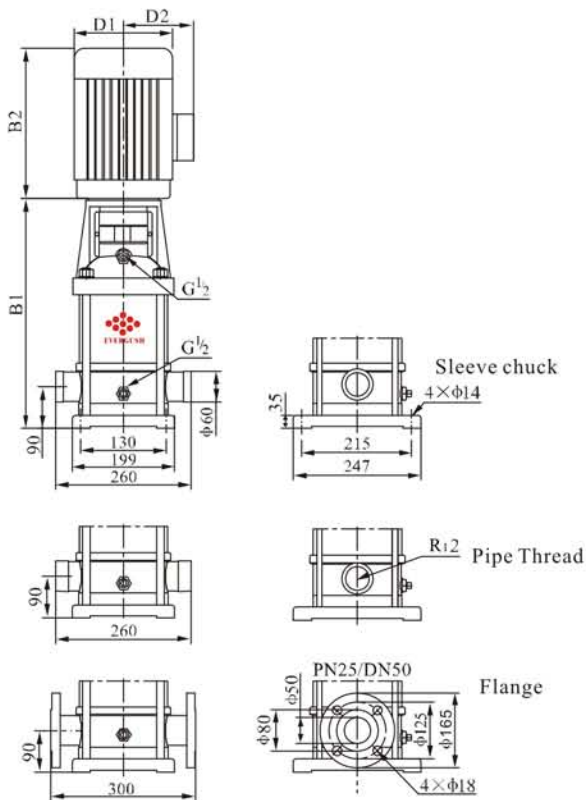


ECDL16 Technical Data

▲ Performance table

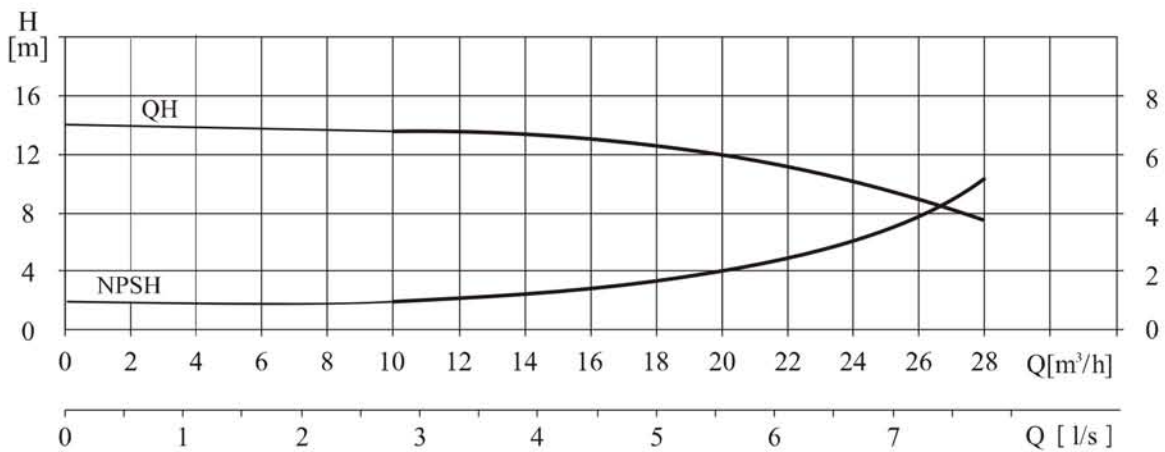
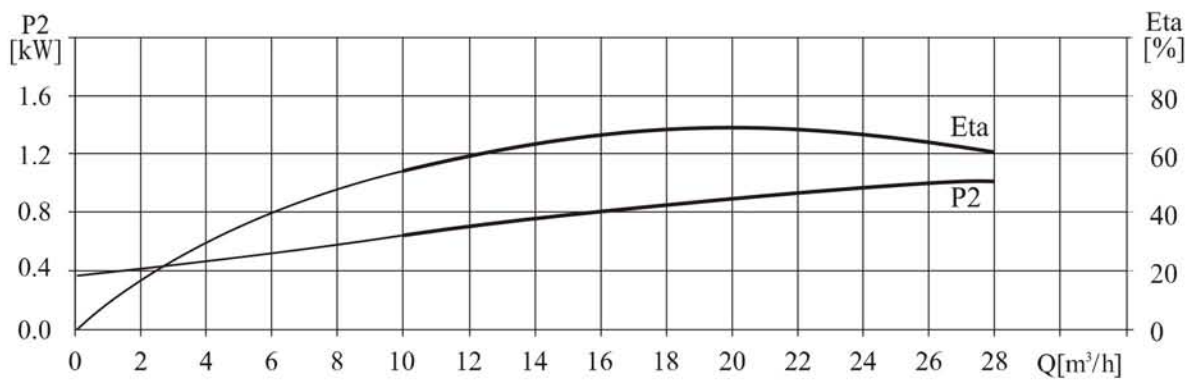
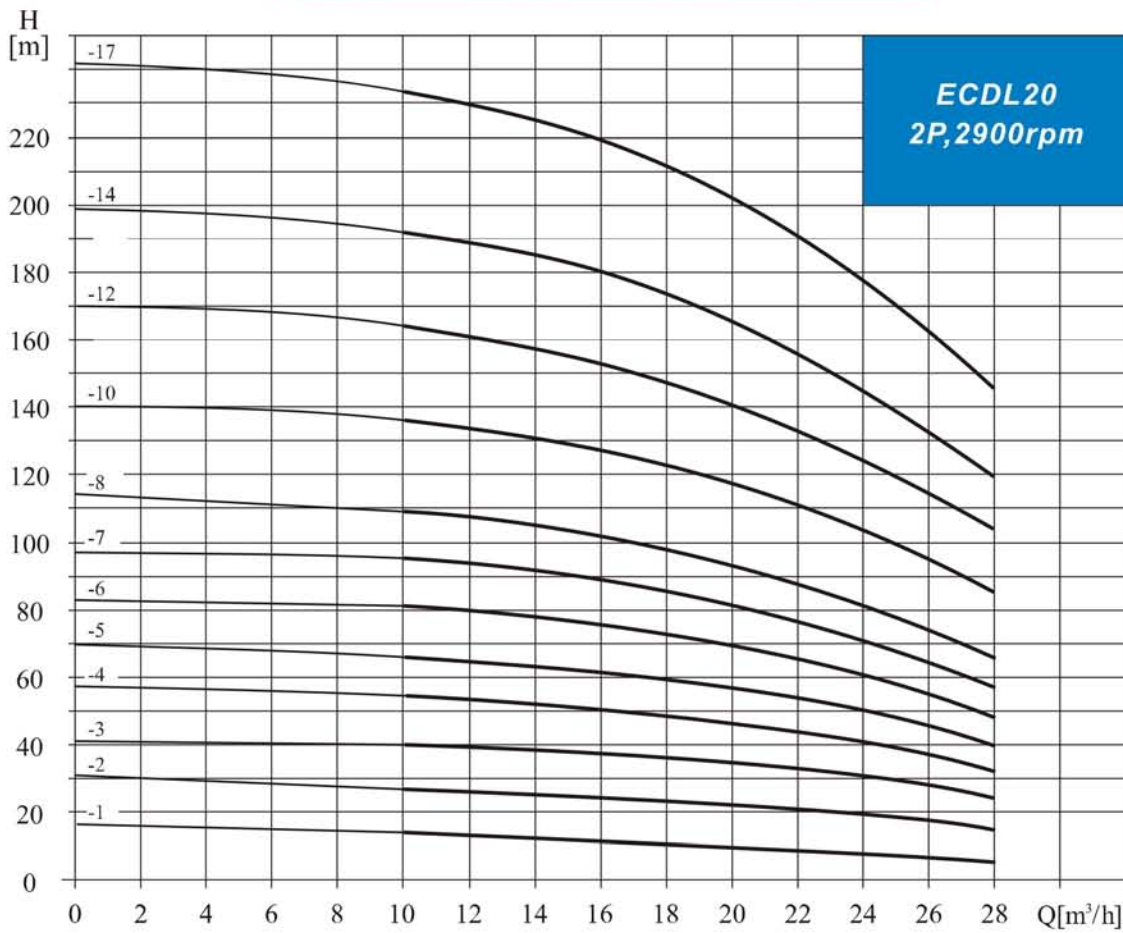
Model	Associated motor(kW)	Q (m ³ /h)	8	10	12	14	16	18	20	22
ECDL16-2	2.2	H (m)	27	26	25	24	22	21	19	16
ECDL16-3	3.0		41	40	38	37	34	32	29	25
ECDL16-4	4.0		54	53	52	49	46	43	38	34
ECDL16-5	5.5		68	67	65	62	58	54	48	43
ECDL16-6	5.5		82	80	78	74	70	64	58	52
ECDL16-7	7.5		96	95	91	87	82	76	68	61
ECDL16-8	7.5		110	108	104	99	94	86	77	70
ECDL16-10	9.2		138	136	131	125	118	109	97	87
ECDL16-12	11		166	162	157	150	141	130	116	105
ECDL16-14	15		194	190	184	175	166	152	136	122
ECDL16-16	15		222	217	210	200	189	174	156	140

▲ Dimensions and Weight



Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
ECDL16-2	397	290	687	190	155	42
ECDL16-3	452	345	797	197	165	50
ECDL16-4	497	355	852	230	188	59
ECDL16-5	562	390	952	260	208	76
ECDL16-6	607	390	997	260	208	77
ECDL16-7	652	390	1042	260	208	84
ECDL16-8	697	390	1087	260	208	86
ECDL16-10	787	390	1177	260	208	106
ECDL16-12	965	500	1465	330	255	161
ECDL16-14	1055	500	1555	330	255	174
ECDL16-16	1145	500	1645	330	255	178

ECDL20 Performance Curves

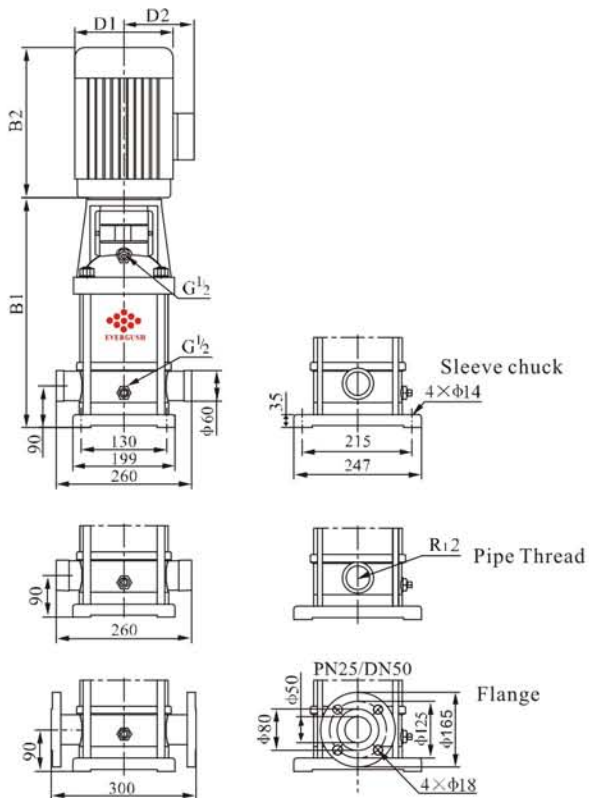


ECDL20 Technical Data

▲ Performance table

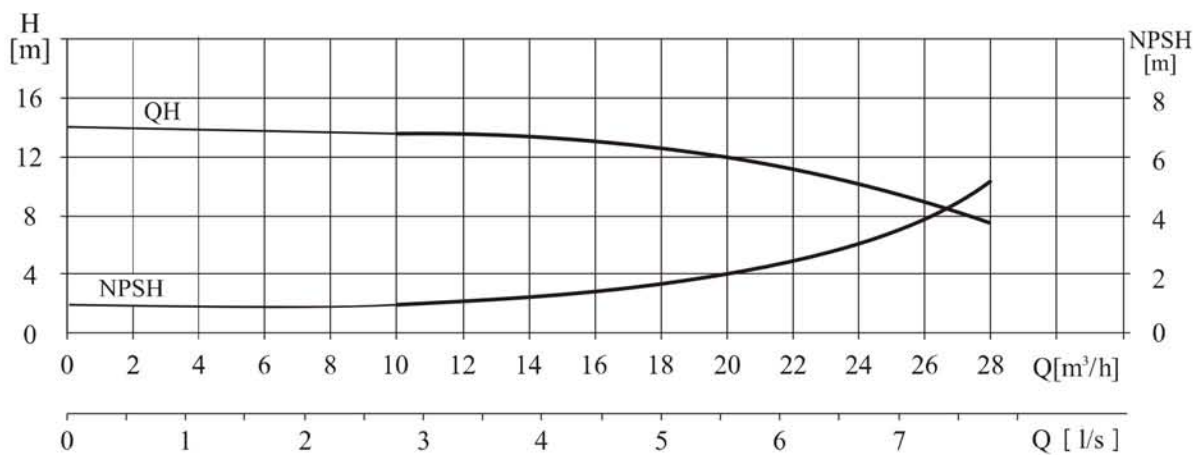
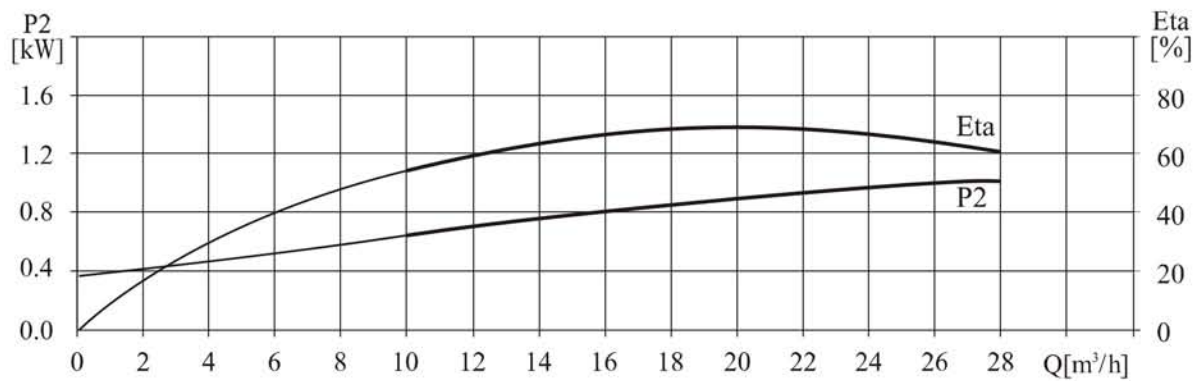
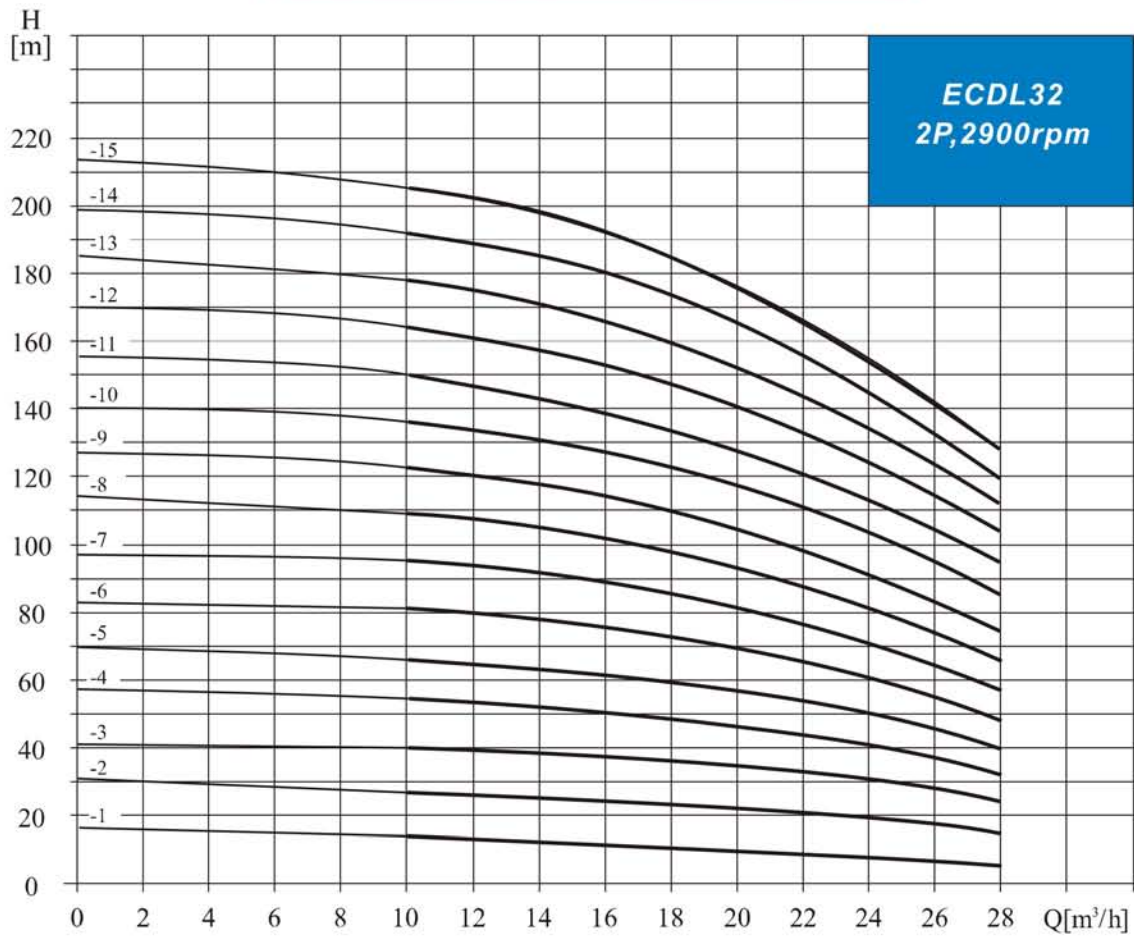
Model	Associated motor(kW)	Q (m ³ /h)	10	12	14	16	18	20	22	24	26	28
ECDL20-1	1.1	H (m)	13.5	13	12.5	12	11	10	9	8	7	6
ECDL20-2	2.2		27	26.5	26	25	24	23	22	20	18	15
ECDL20-3	4.0		40	39.5	39	38	37	35	33	30	27	24
ECDL20-4	5.5		54	53	52	51	49	47	44	41	37	33
ECDL20-5	5.5		67	66	64	62	60	58	55	50	45	40
ECDL20-6	7.5		81	79	77	75	73	70	66	61	55	49
ECDL20-7	7.5		95	93	91	89	86	82	77	71	65	58
ECDL20-8	9.2		109	107	105	102	99	94	89	82	75	67
ECDL20-10	11		136	134	131	128	124	118	111	103	95	85
ECDL20-12	15		164	162	158	154	149	142	133	124	114	102
ECDL20-14	15		192	189	185	180	174	166	156	145	133	119
ECDL20-17	18.5		234	230	225	219	212	202	190	177	162	145

▲ Dimensions and Weight



Model	Size (mm)					Weight(kg)
	B1	B2	B1+B2	D1	D2	
ECDL20-1	387	245	632	170	142	33
ECDL20-2	397	290	687	190	155	42
ECDL20-3	452	355	807	230	188	58
ECDL20-4	517	390	907	260	208	74
ECDL20-5	562	390	952	260	208	76
ECDL20-6	607	390	997	260	208	82
ECDL20-7	652	390	1042	260	208	84
ECDL20-8	697	390	1087	260	208	101
ECDL20-10	875	500	1375	330	255	157
ECDL20-12	965	500	1465	330	255	170
ECDL20-14	1055	500	1555	330	255	172
ECDL20-17	1190	550	1740	330	255	195

ECDL32 Performance Curves



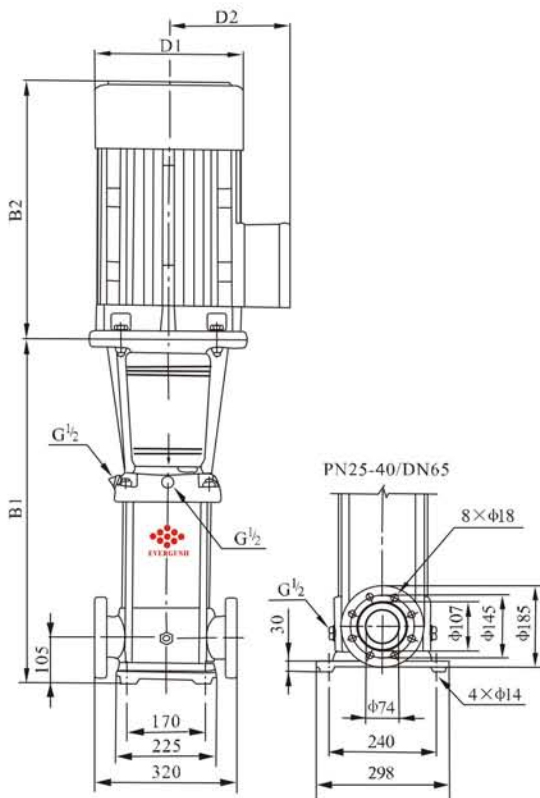
ECDL32 Technical Data

▲ Performance table

Model	Associated motor(kW)	Q (m ³ /h)	16	20	24	28	32	36	40
ECDL32-1-1	1.5	H (m)	14	13	12	11	9	7	4
ECDL32-1	2.2		18	17	15	14	13	11	8
ECDL32-2-2	3.0		29	28	26	23	20	16	11
ECDL32-3	4.0		36	34	32	29	27	23	18
ECDL32-3-2	5.5		47	44	41	38	33	28	21
ECDL32-3	5.5		54	51	48	44	40	35	27
ECDL32-4-2	7.5		65	62	58	53	46	40	30
ECDL32-4	7.5		72	69	65	59	53	47	37
ECDL32-5-2	9.2		83	79	74	68	60	52	41
ECDL32-5	9.2		90	86	81	74	67	59	47
ECDL32-6-2	11		101	97	90	83	74	65	51
ECDL32-6	11		108	104	97	90	81	72	57
ECDL32-7-2	15		119	114	107	98	88	78	60
ECDL32-7	15		126	121	113	105	95	85	67
ECDL32-8	15		136	131	123	114	102	90	71
ECDL32-8-2	15		144	138	130	120	109	97	77

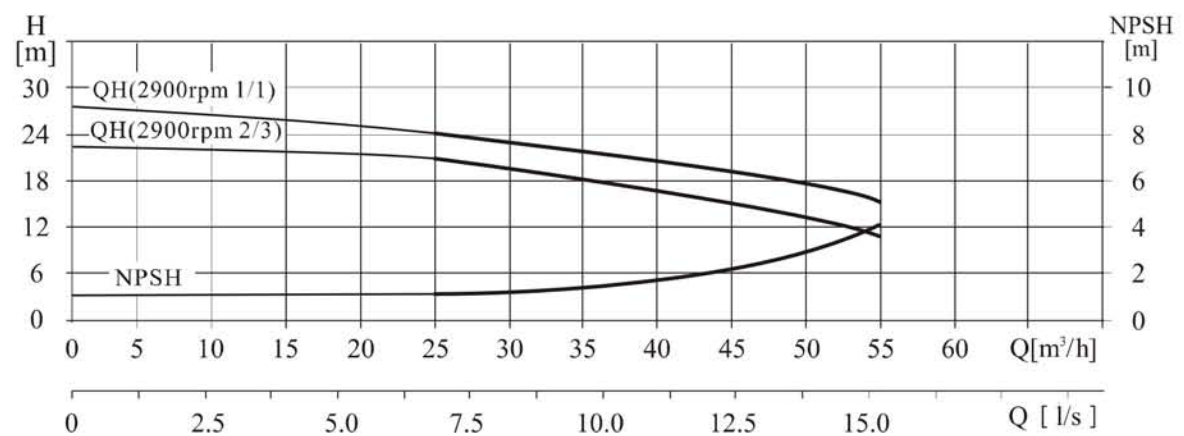
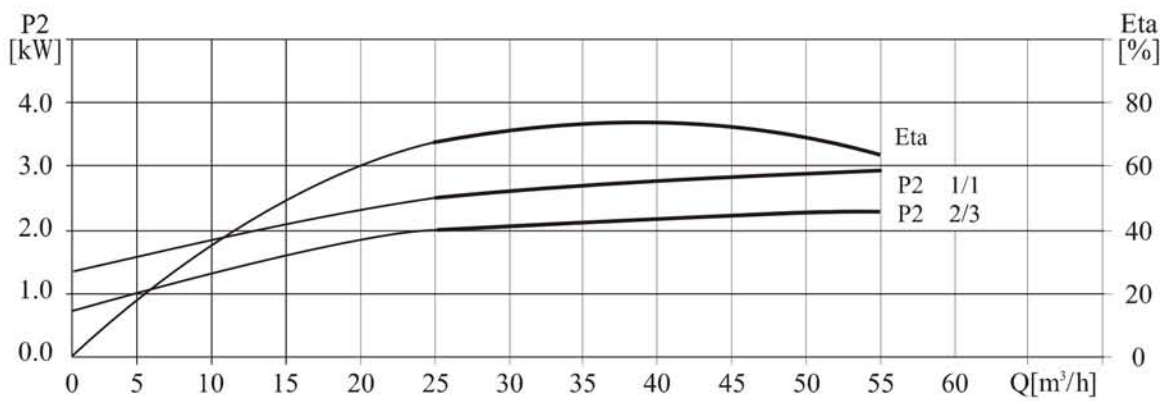
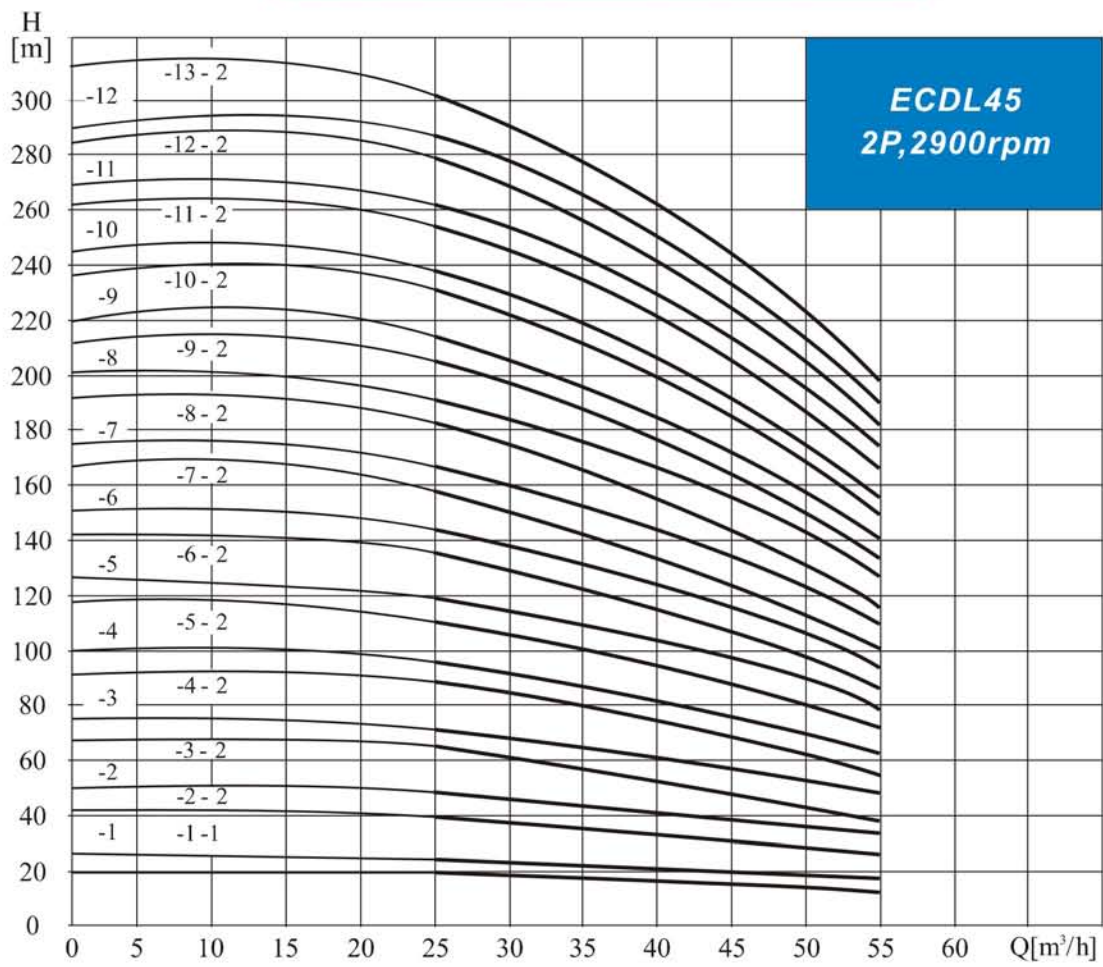
Model	Associated motor(kW)	Q (m ³ /h)	16	20	24	28	32	36	40
ECDL32-9-2	18.5	H (m)	154	148	140	129	117	102	82
ECDL32-9	18.5		162	156	147	136	124	109	88
ECDL32-10-2	18.5		175	166	157	146	131	115	91
ECDL32-10	18.5		182	173	164	152	138	122	98
ECDL32-11-2	22		193	184	173	164	146	128	102
ECDL32-11	22		200	191	180	168	153	135	109
ECDL32-12-2	22		211	201	189	178	160	140	113
ECDL32-12	22		218	208	196	184	167	147	120
ECDL32-13-2	26		230	218	206	193	174	153	124
ECDL32-13	26		237	225	213	200	181	160	131
ECDL32-14-2	26		247	235	222	210	189	165	135
ECDL32-14	30		255	242	229	216	196	172	142
ECDL32-15-2	30		266	253	239	224	203	178	145
ECDL32-15	30		274	260	246	231	210	185	152
ECDL32-16-2	30		284	270	255	240	218	190	156
ECDL32-16	30		292	277	262	246	225	197	163

▲ Dimensions and Weight



Model	Size (mm)					Weight(kg)
	B1	B2	B1+B2	D1	D2	
ECDL32-1-1/ECDL32-1	505	290	795	190	155	64/68
ECDL32-2-2/ECDL32-2	575	345/355	920/930	197/230	165/180	77/85
ECDL32-3-2/ECDL32-3	645	390	1035	260	208	100
ECDL32-4-2/ECDL32-4	715	390	1105	260	208	109
ECDL32-5-2/ECDL32-5	785	390	1175	260	208	125
ECDL32-6-2/ECDL32-6	960	500	1460	330	255	185
ECDL32-7-2/ECDL32-7	1030	500	1530	330	255	199
ECDL32-8-2/ECDL32-8	1100	500	1600	330	255	203
ECDL32-9-2/ECDL32-9	1170	550	1720	330	255	222
ECDL32-10-2/ECDL32-10	1240	550	1790	330	255	227
ECDL32-11-2/ECDL32-11	1310	575	1885	360	285	272
ECDL32-12-2/ECDL32-12	1380	575	1955	360	285	276
ECDL32-13-2/ECDL32-13	1450	575	2025	360	285	293
ECDL32-14-2/ECDL32-14	1520	575/650	2095/2170	360/400	285/310	298/341
ECDL32-15-2/ECDL32-15	1590	650	2240	400	310	345
ECDL32-16-2/ECDL32-16	1660	650	2310	400	310	350

ECDL45 Performance Curves

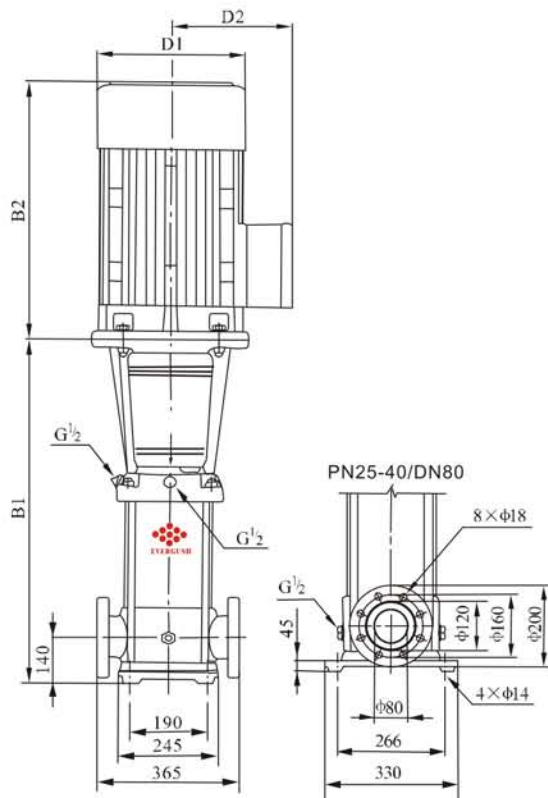


ECDL45 Technical Data

▲ Performance table

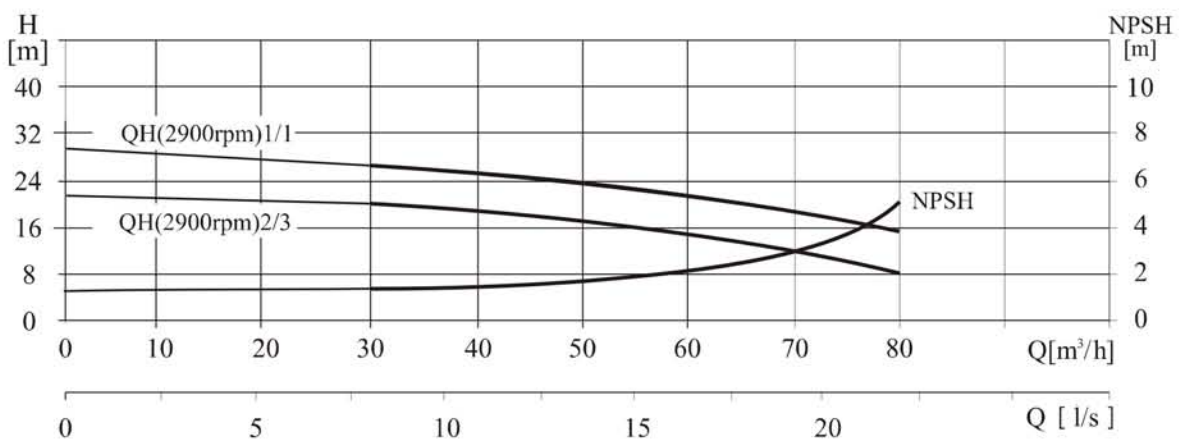
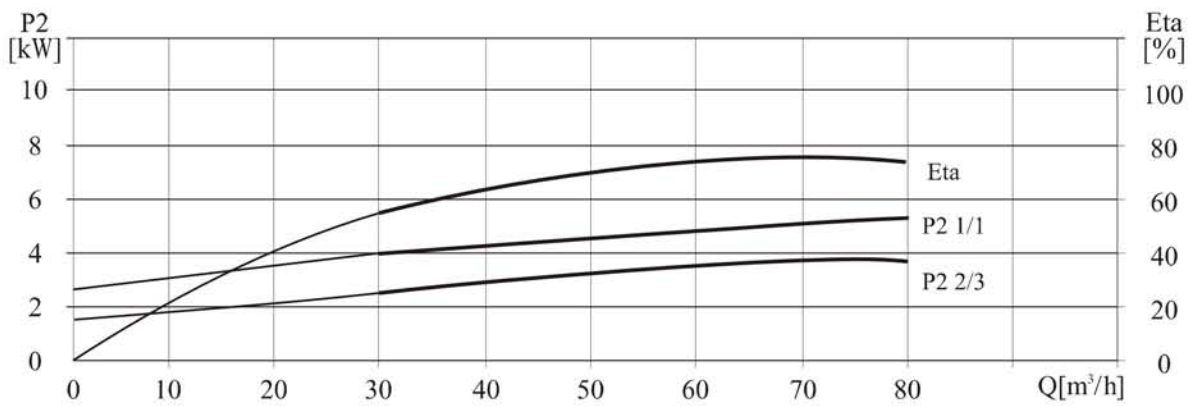
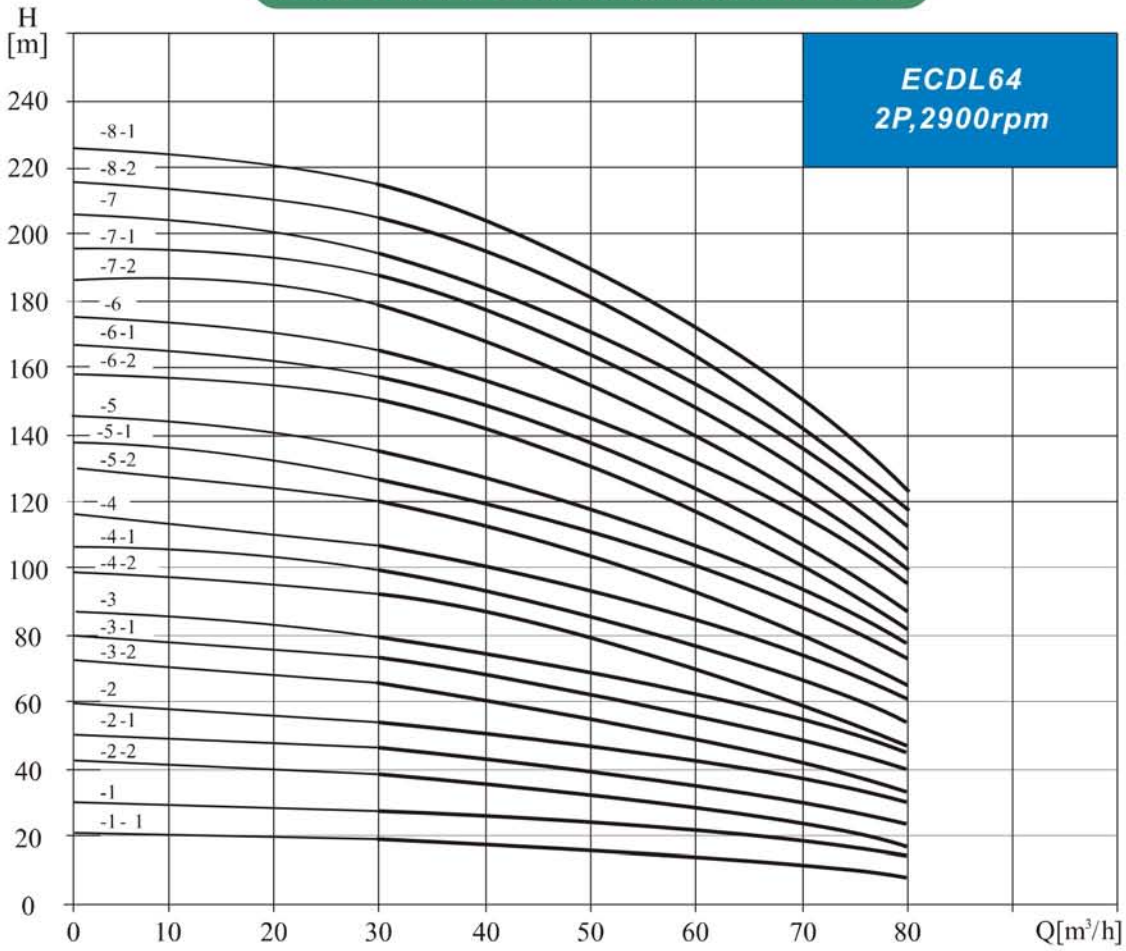
Model	Associated motor(kW)	Q (m ³ /h)	25	30	35	40	45	50	55
ECDL45-1-1	3.0	H (m)	20	19	18	17	15	13	11
ECDL45-1	4.0		24	23	22	21	19	18	16
ECDL45-2-2	5.5		40	38	36	33	30	27	23
ECDL45-2	7.5		48	46	44	42	39	35	31
ECDL45-3-2	9.2		63	61	58	54	50	44	38
ECDL45-3	11		71	69	66	63	58	53	47
ECDL45-4-2	15		87	84	80	75	69	62	54
ECDL45-4	15		95	92	88	84	78	71	62
ECDL45-4-2	18.5		111	107	102	96	88	80	69
ECDL45-5	18.5		119	115	110	105	97	88	78
ECDL45-6-2	22		135	130	124	117	108	97	85
ECDL45-6	22		143	138	132	125	116	106	93
ECDL45-7-2	26		158	152	146	138	127	115	100
ECDL45-7	26		166	161	154	146	135	124	109
ECDL45-8-2	30		182	175	168	159	146	133	116
ECDL45-8	30		190	184	176	167	154	141	124
ECDL45-9-2	30		205	198	190	180	166	150	132
ECDL45-9	37		214	207	198	188	174	159	140
ECDL45-10-2	37		230	221	212	200	185	168	147
ECDL45-10	37		238	230	220	209	193	177	155
ECDL45-11-2	45	255	246	236	223	206	188	165	
ECDL45-11	45	263	255	244	232	214	196	173	
ECDL45-12-2	45	280	270	259	245	226	206	181	
ECDL45-12	45	289	280	268	255	236	216	190	
ECDL45-13-2	45	305	294	282	267	247	225	198	

▲ Dimensions and Weight



Model	Size (mm)					Weight(kg)
	B1	B2	B1+B2	D1	D2	
ECDL45-1-1	561	345/355	906/916	197/230	165/188	83/90
ECDL45-1						
ECDL45-2-2	641	390	1031	260	208	105/110
ECDL45-2						
ECDL45-3-2	721/826	390/500	1111/1326	260/330	208/255	127/183
ECDL45-3						
ECDL45-4-2	906	500	1406	330	255	197
ECDL45-4						
ECDL45-4-2	986	550	1536	330	255	221
ECDL45-5						
ECDL45-6-2	1066	575	1641	360	285	261
ECDL45-6						
ECDL45-7-2	1146	575	1721	360	285	288
ECDL45-7						
ECDL45-8-2	1226	650	1876	400	310	324
ECDL45-8						
ECDL45-9-2	1306	650	1956	400	310	328/352
ECDL45-9						
ECDL45-10-2	1386	650	2036	400	310	355
ECDL45-10						
ECDL45-11-2	1466	685	2151	450	345	426
ECDL45-11						
ECDL45-12-2	1546	685	2231	450	345	432
ECDL45-12						
ECDL45-13-2	1626	685	2311	450	345	438

ECDL64 Performance Curves

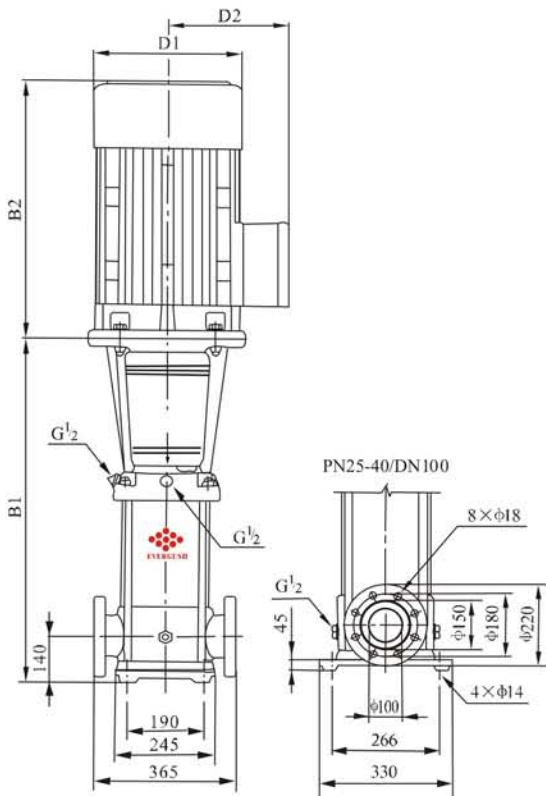


ECDL64 Technical Data

▲ Performance table

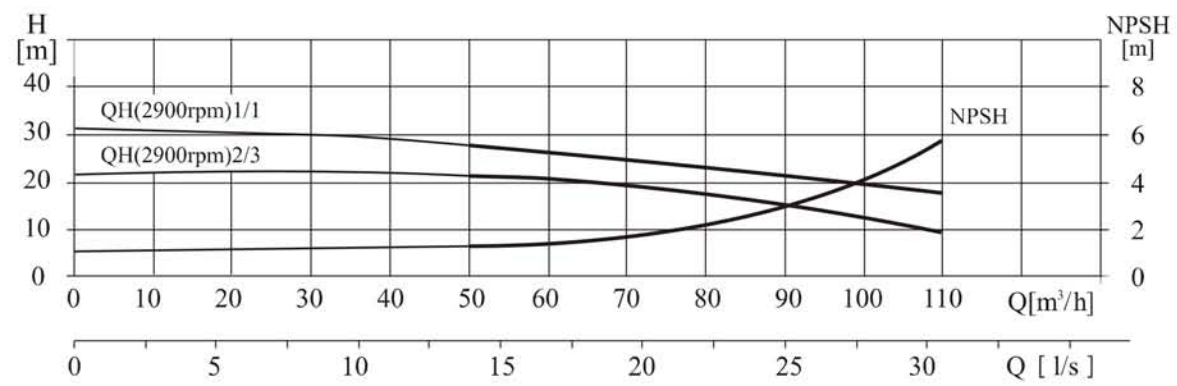
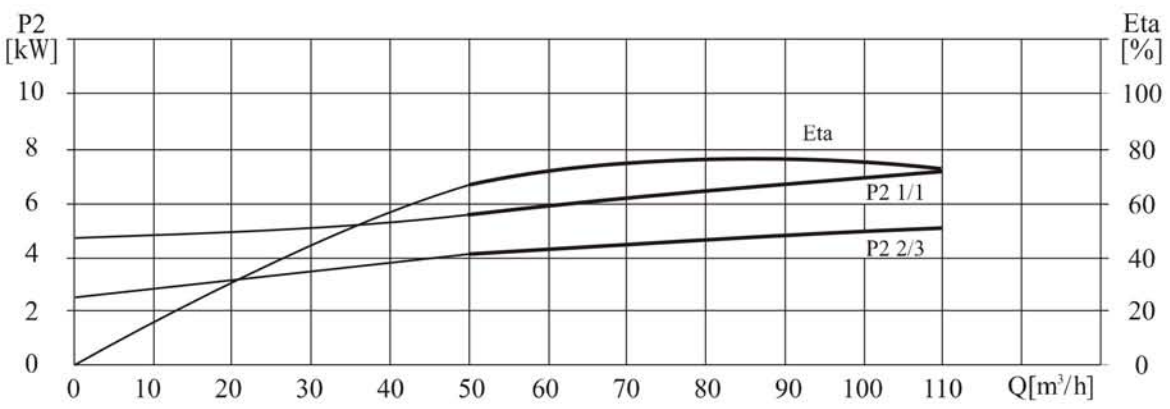
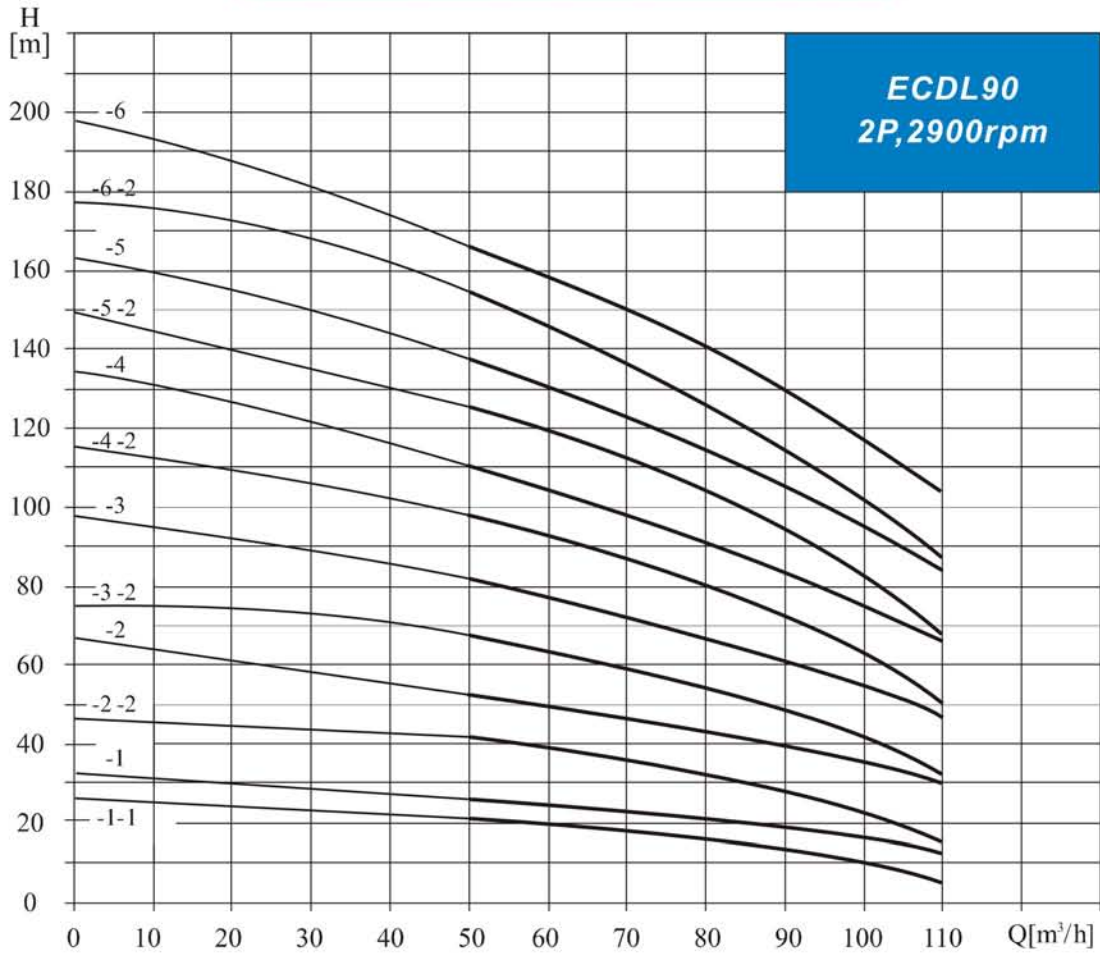
Model	Associated motor(kW)	Q (m ³ /h)	30	40	50	60	64	70	80
ECDL64-1-1	4.0	H (m)	19	18	16	14	13	11	8
ECDL64-1	5.5		27	25	23	21	20	18	15
ECDL64-2-2	7.5		39	36	33	29	27	23	17
ECDL64-2-1	11		46	44	40	36	34	30	24
ECDL64-2	11		53	51	47	43	41	37	30
ECDL64-3-2	15		66	62	56	50	47	41	32
ECDL64-3-1	15		73	69	63	57	54	48	39
ECDL64-3	18.5		80	76	70	64	61	55	46
ECDL64-4-2	18.5		92	87	80	71	67	60	47
ECDL64-4-1	22		100	94	87	78	74	67	54
ECDL64-4	22		107	101	94	85	81	74	61
ECDL64-5-2	26		121	114	105	95	89	80	64
ECDL64-5-1	26		128	121	112	102	96	87	71
ECDL64-5	30		136	129	119	109	103	94	78
ECDL64-6-2	30		150	142	131	118	111	101	81
ECDL64-6-1	37		157	149	138	125	118	108	88
ECDL64-6	37		164	156	145	132	125	115	95
ECDL64-7-2	37		179	169	156	141	133	121	99
ECDL64-7-1	37		186	176	163	148	141	128	106
ECDL64-7	45		193	183	170	155	148	135	112
ECDL64-8-2	45	207	196	182	164	156	142	116	
ECDL64-8-1	45	215	203	189	171	163	149	123	

▲ Dimensions and Weight



Model	Size (mm)					Weight(kg)
	B1	B2	B1+B2	D1	D2	
ECDL64-1-1	561	355	916	230	188	93
ECDL64-1	561	390	951	260	208	105
ECDL64-2-2	644	390	1034	260	208	110
ECDL64-2-1	754	500	1254	330	255	182
ECDL64-2	754	500	1254	330	255	182
ECDL64-3-2	836	500	1336	330	255	196
ECDL64-3-1	836	500	1336	330	255	197
ECDL64-3	836	550	1386	330	255	221
ECDL64-4-2	919	550	1469	330	255	225
ECDL64-4-1	919	575	1494	360	285	258
ECDL64-4	919	575	1494	360	285	258
ECDL64-5-2	1001	575	1576	360	285	276
ECDL64-5-1	1001	575	1576	360	285	276
ECDL64-5	1001	650	1651	400	310	320
ECDL64-6-2	1084	650	1734	400	310	325
ECDL64-6-1	1084	650	1734	400	310	349
ECDL64-6	1084	650	1734	400	310	349
ECDL64-7-2	1166	650	1816	400	310	353
ECDL64-7-1	1166	650	1816	400	310	353
ECDL64-7	1166	685	1851	460	340	420
ECDL64-8-2	1248	685	1933	460	340	424
ECDL64-8-1	1248	685	1933	460	340	424

ECDL90 Performance Curves

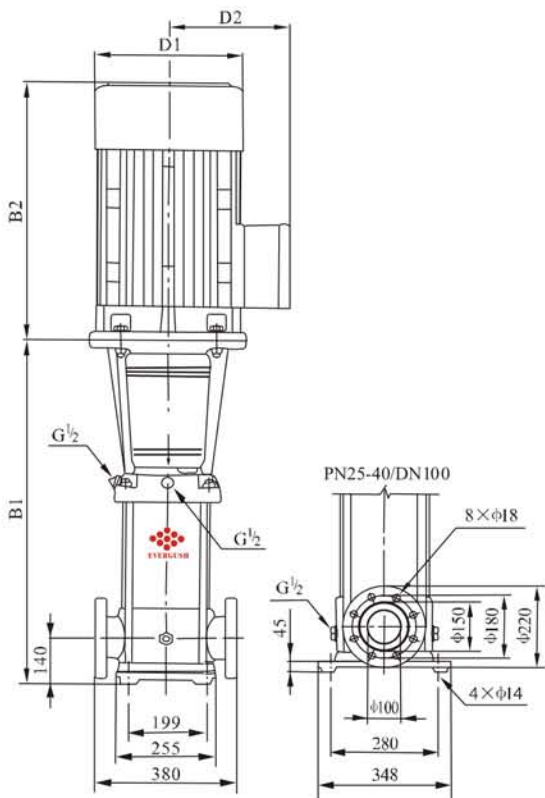


ECDL90 Technical Data

▲ Performance table

Model	Associated motor(kW)	Q (m ³ /h)	50	60	70	80	90	100	110
ECDL90-1-1	5.5	H (m)	22	19	17	16	13	10	6
ECDL90-1	7.5		25	24	22	21	19	16	12
ECDL90-2-2	11		41	39	36	32	28	22	15
ECDL90-2	15		53	50	47	44	40	36	30
ECDL90-3-2	18.5		68	65	60	55	49	41	32
ECDL90-3	22		81	77	72	67	62	55	48
ECDL90-4-2	26		98	93	87	80	72	62	50
ECDL90-4	30		110	105	100	92	84	76	66
ECDL90-5-2	37		126	120	113	104	93	81	68
ECDL90-5	37		139	131	124	115	106	94	83
ECDL90-6-2	45		155	148	139	129	117	102	86
ECDL90-6	45		168	160	150	141	130	117	103

▲ Dimensions and Weight



Model	Size (mm)					Weight(kg)
	B1	B2	B1+B2	D1	D2	
ECDL90-1-1	571	390	961	260	208	105
ECDL90-1	571	390	961	260	208	110
ECDL90-2-2	773	500	1273	330	255	181
ECDL90-2	773	500	1273	330	255	192
ECDL90-3-2	865	550	1415	330	255	215
ECDL90-3	865	575	1440	360	285	252
ECDL90-4-2	957	575	1532	360	285	271
ECDL90-4	957	650	1607	400	310	312
ECDL90-5-2	1049	650	1699	400	310	336
ECDL90-5	1049	650	1699	400	310	336
ECDL90-6-2	1141	685	1826	460	340	407
ECDL90-6	1141	685	1826	460	340	407



▲ **Applications**

1. Water treatment processes
2. Industrial cleaners and dishwashers
3. Pressure boosting systems
4. Heating and cooling for industrial processes
5. Air-conditioning systems, Air freshening, heater devices.
6. Water supply and boosting (drinking water with light chlorinated water)
7. Fertilization systems
6. Domestic and household use

▲ **Applicable Medium**

1. For clean, non-flammable and non-explosive liquid without solid granules and fibers;
2. Mineral water, soft water, pure water, edible vegetable oil and other light chemical mediums.
3. When the liquid density or viscosity is larger than normal water, it is necessary to select a motor with higher power.
4. Whether a specific liquid is suitable for the pump, it all depends on many factors, among which the most important ones are chlorine content, PH value, temperature, solvent and oil content.

▲ **Operating Conditions**

1. Liquid temperature: Standard type 0~70°C
Hot water type less than 100°C
2. Ambient temperature: Max. 40°C
3. Working pressure: Max. 10 bar
4. Suitable for transport clean water, without solid particles or non-corrosive fluids.

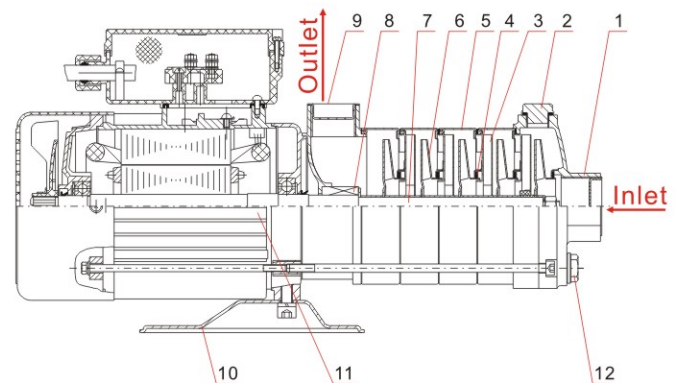
OPTIONAL
ECM2-A, ECM4-A
Auto Booster
Multi-stage Pump



▲ **Cross sectional drawing of ECM**

No.	Part Name	Std. Material
1	Inlet section	SUS304
2	Priming Plug	SUS304
3	Support guide vane	SUS304
4	Separating sleeve	SUS304
5	Middle section body	SUS304
6	Impeller	SUS304
7	Shaft	SUS410
8	Mechanical seal	CA/CE/NBR
9	Outlet section	SUS304
10	Base frame	A3 steel
11	Motor shell	Aluminum Alloy
12	Drainage Plug	SUS304

● SIC/SIC Mech seal is available upon request.

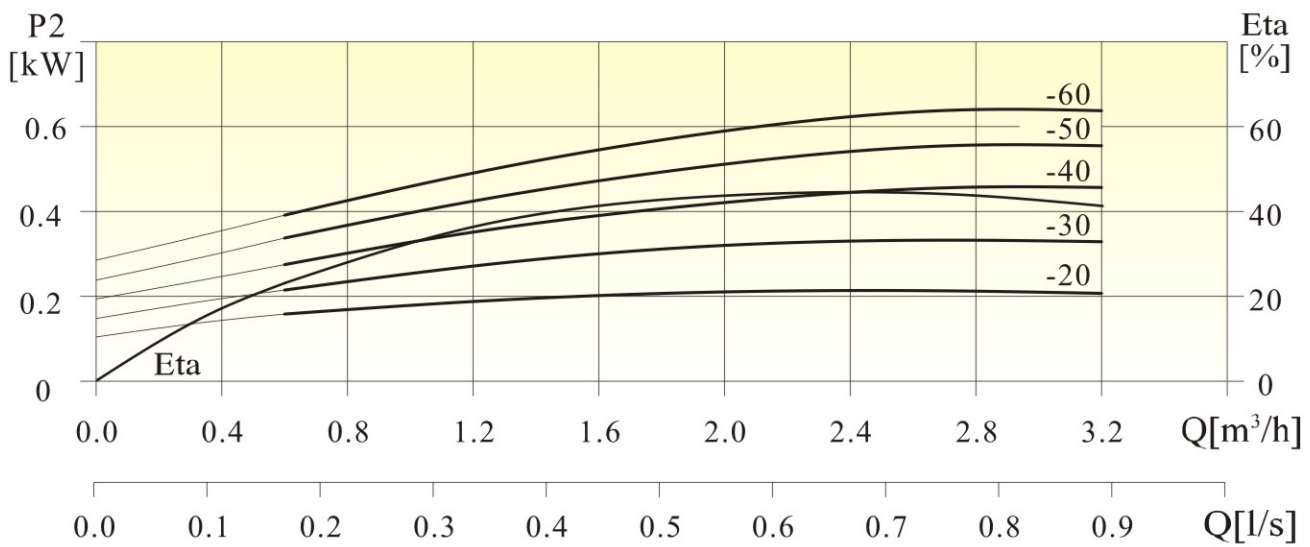
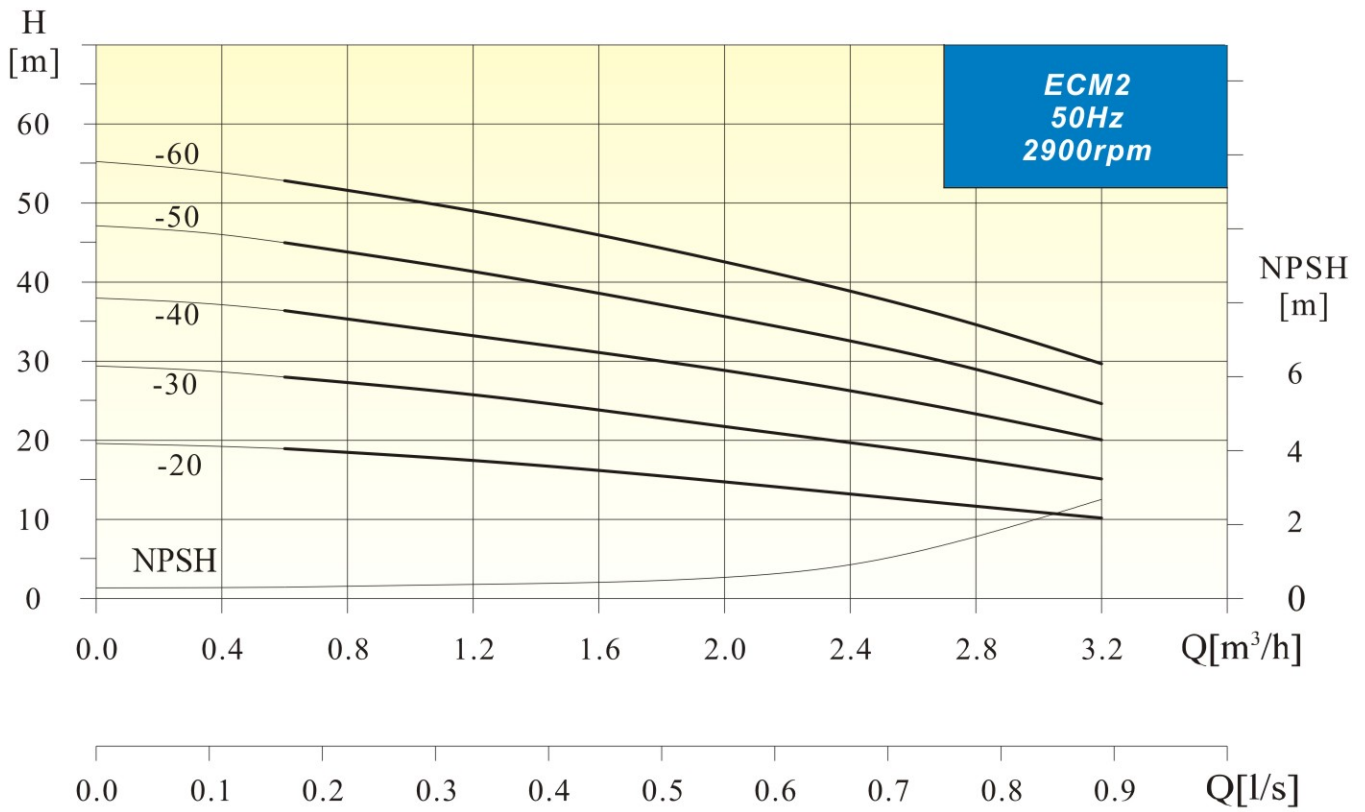


Unit:MM

Model	ECM2	ECM4	ECM8	ECM12	ECM16	ECM20
Inlet outlet dia.	25	32	40	40	50	50
Inlet	25	32	40	40	50	50
Outlet	25	25	40	40	50	50

ECM2 Technical Data

▲ Performance Curves



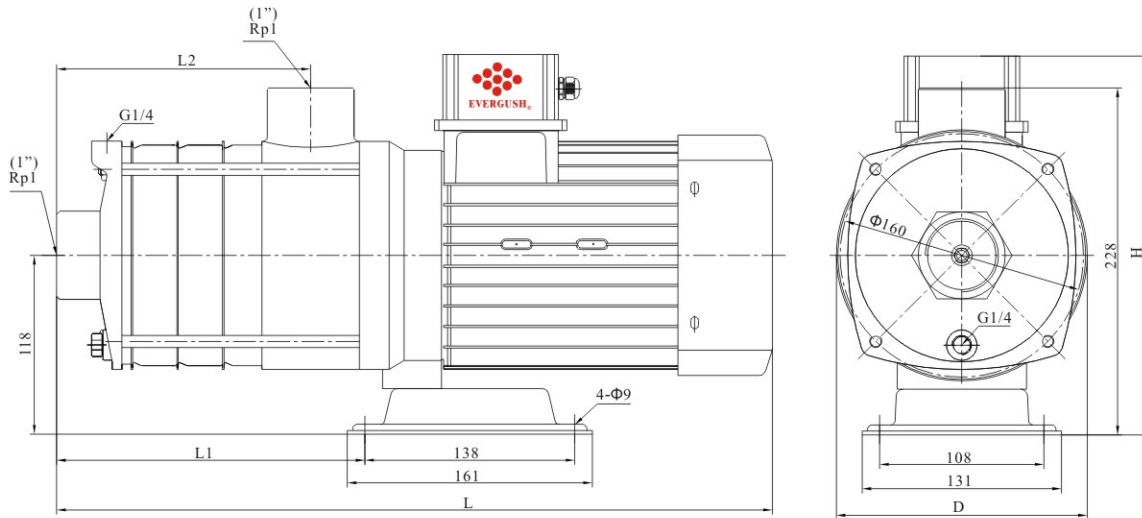
ECM2 Technical Data

▲ Performance Table

Model	Power		Q (M ³ /hr)	0.6	1.2	1.6	2	2.4	2.8	3.2
	KW	HP								
ECM2-20(T)	0.37	0.5	H (M)	18.6	17.6	16	15	13.5	10.5	9.5
ECM2-30(T)	0.37	0.5		27.7	26	24	22	19.5	16.5	13.5
ECM2-40(T)	0.55	0.75		35.7	34	32	29	25.5	23.5	19
ECM2-50(T)	0.55	0.75		45	42	39	36	33	28	24.5
ECM2-60(T)	0.75	1.0		53	50	47.5	43.5	39	34	29.5

●T : Three phase motor

▲ Dimensions and Weight

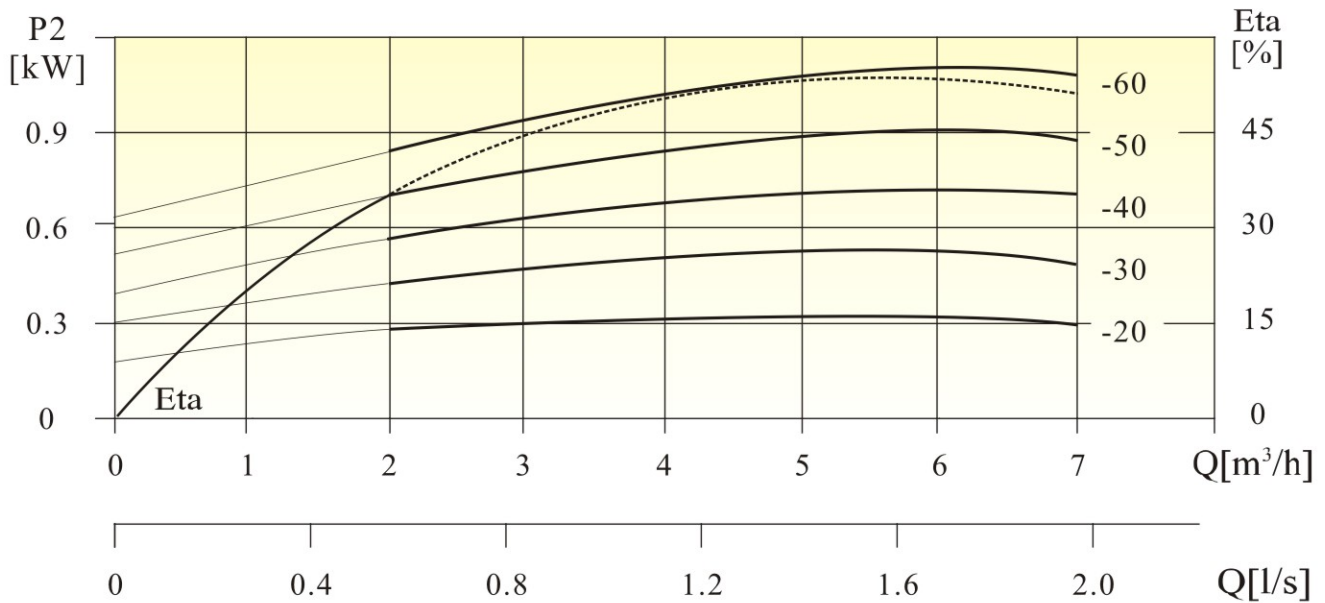
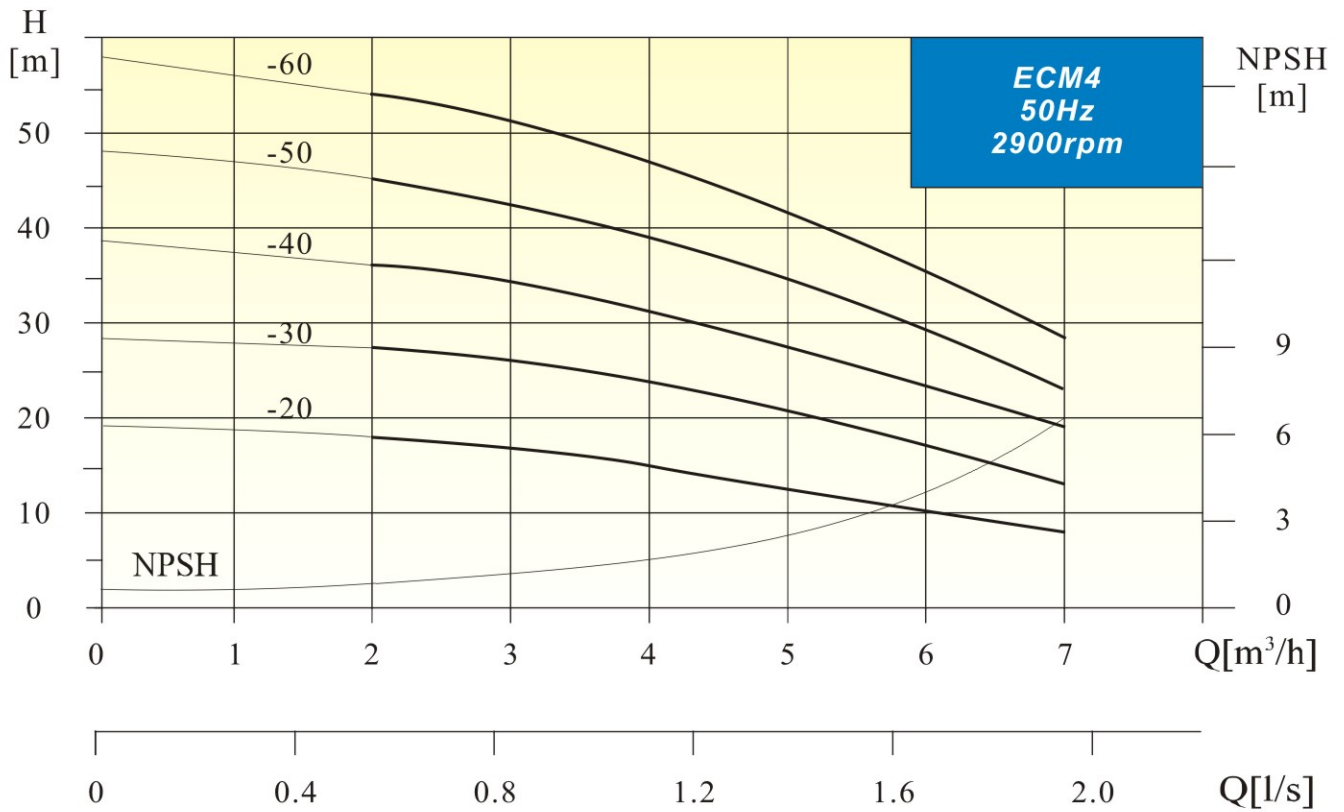


Model	KW	Size(mm)										Weight (Kg)
		Single phase					Three phase					
		L	L1	L2	H	D	L	L1	L2	H	D	
ECM2-20(T)	0.37	305	87	84	230	145	305	87	84	215	145	10
ECM2-30(T)	0.37	323	105	102	230	145	323	105	102	215	145	10
ECM2-40(T)	0.55	341	123	120	230	145	341	123	120	215	145	10
ECM2-50(T)	0.55	359	141	138	230	145	359	141	138	215	145	10
ECM2-60(T)	0.75	422	159	156	245	170	422	159	156	225	170	11

●T : Three phase motor

ECM4 Technical Data

▲ Performance Curves



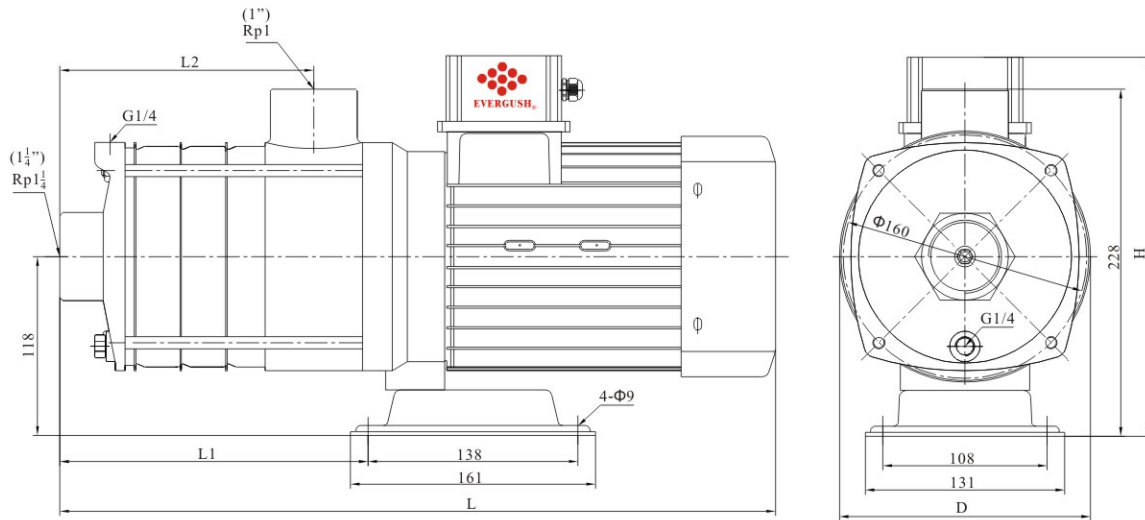
ECM4 Technical Data

Performance Table

Model	Power		Q (m ³ /h)	1	2	3	4	5	6	7
	KW	HP								
ECM4-20(T)	0.55	0.75	H (m)	19	18	17	15	12.5	10	7.5
ECM4-30(T)	0.75	1.0		28	27	26	23.5	20.5	17	13
ECM4-40(T)	0.75	1.0		37.5	36	34	31	27	23	19
ECM4-50(T)	1.0	1.3		47	45	42.5	39	34	29	23
ECM4-60(T)	1.1	1.5		56	54	51	47	41.5	35.5	28

●T : Three phase motor

Dimensions and Weight

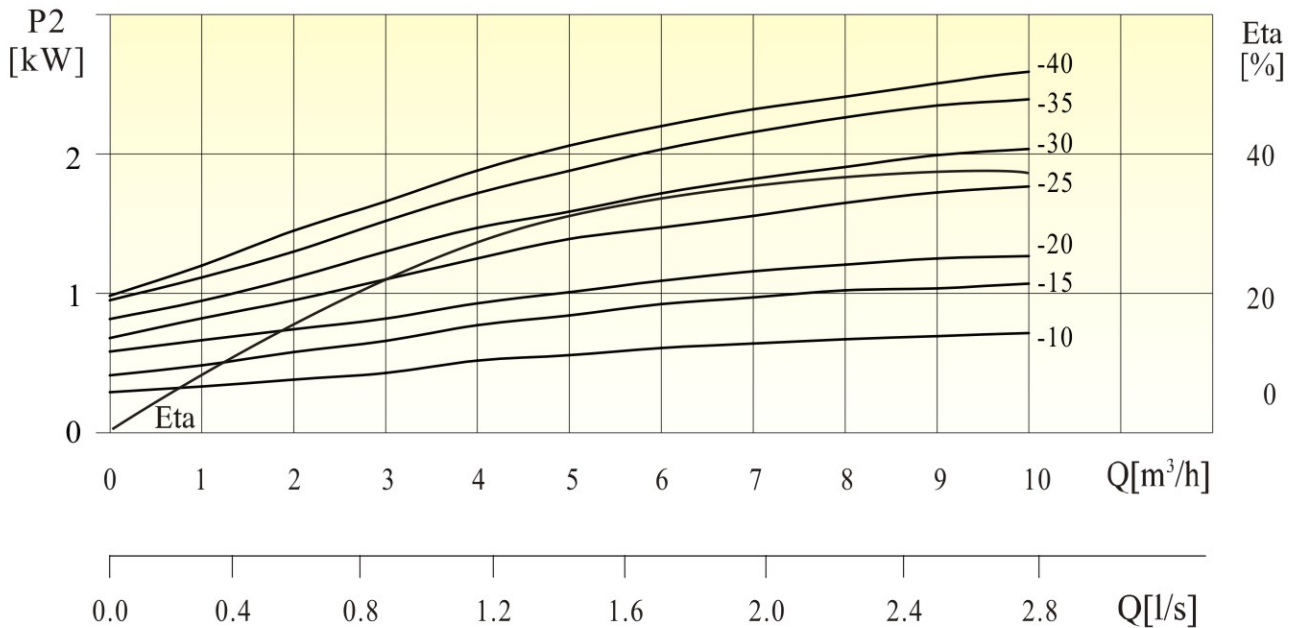
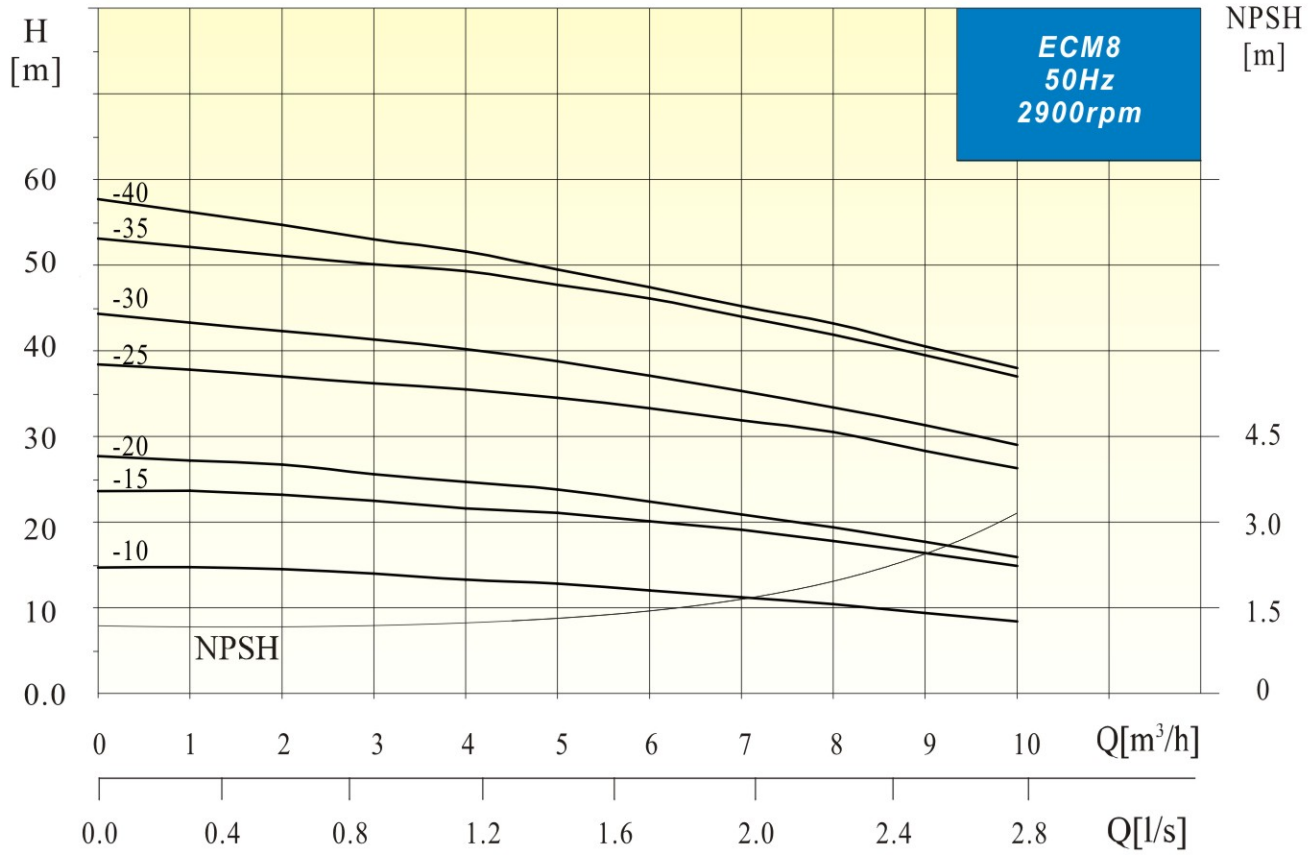


Model	KW	Size(mm)										Weight (Kg)
		Single phase					Three phase					
		L	L1	L2	H	D	L	L	L2	H	D	
ECM4-20(T)	0.55	329	329	102	230	145	329	329	102	215	145	9
ECM4-30(T)	0.75	356	356	129	245	170	356	356	129	225	170	10
ECM4-40(T)	0.75	416	416	156	245	170	416	416	156	225	170	10
ECM4-50(T)	1.0	455	455	183	245	170	455	455	183	225	170	10
ECM4-60(T)	1.1	482	482	210	245	170	482	482	210	225	170	11

●T : Three phase motor

ECM8 Technical Data

▲ Performance Curves



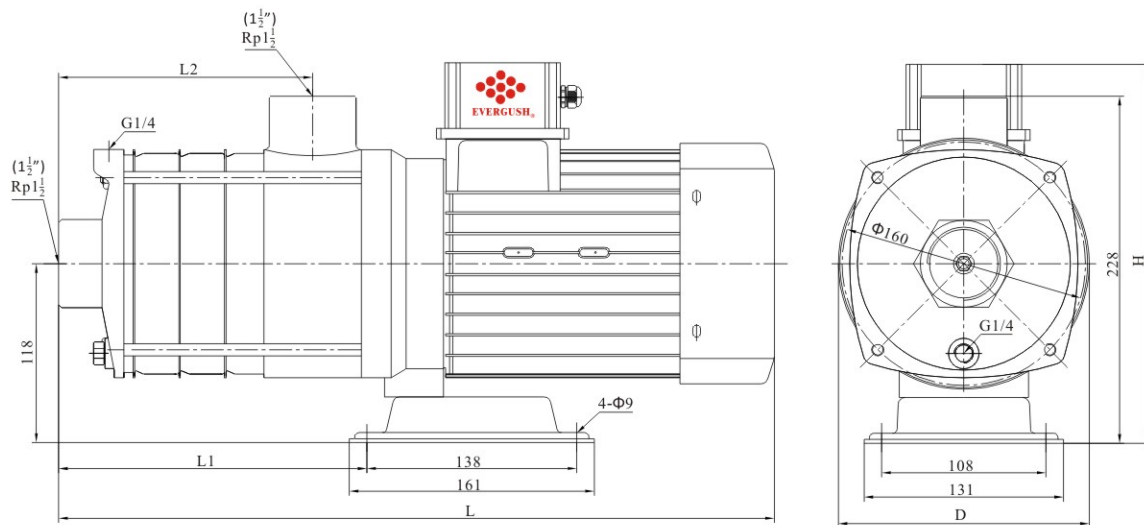
ECM8 Technical Data

▲ Performance Table

Model	Power		Q (m ³ /h)	4	5	6	7	8	9	10
	KW	HP								
ECM8-10(T)	0.55	0.75		13.5	13	12	11.5	10.5	9.5	8.5
ECM8-15(T)	0.75	1.0		21.5	21	20	19	18	16.5	15
ECM8-20(T)	1.0	1.3		25	24	22.5	21	19.5	18	16
ECM8-25(T)	1.5	2.0		35.5	34.5	33.5	32	30.5	28	26.5
ECM8-30(T)	1.85	2.5		40.5	39	37	35.5	33.5	31.5	29
ECM8-35(T)	2.2	3.0		49.5	48	46	44	42	39.5	37.5
ECM8-40(T)	2.2	3.0		51.5	49.5	47.5	45	42.5	40.5	38.5

●T : Three phase motor

▲ Dimensions and Weight

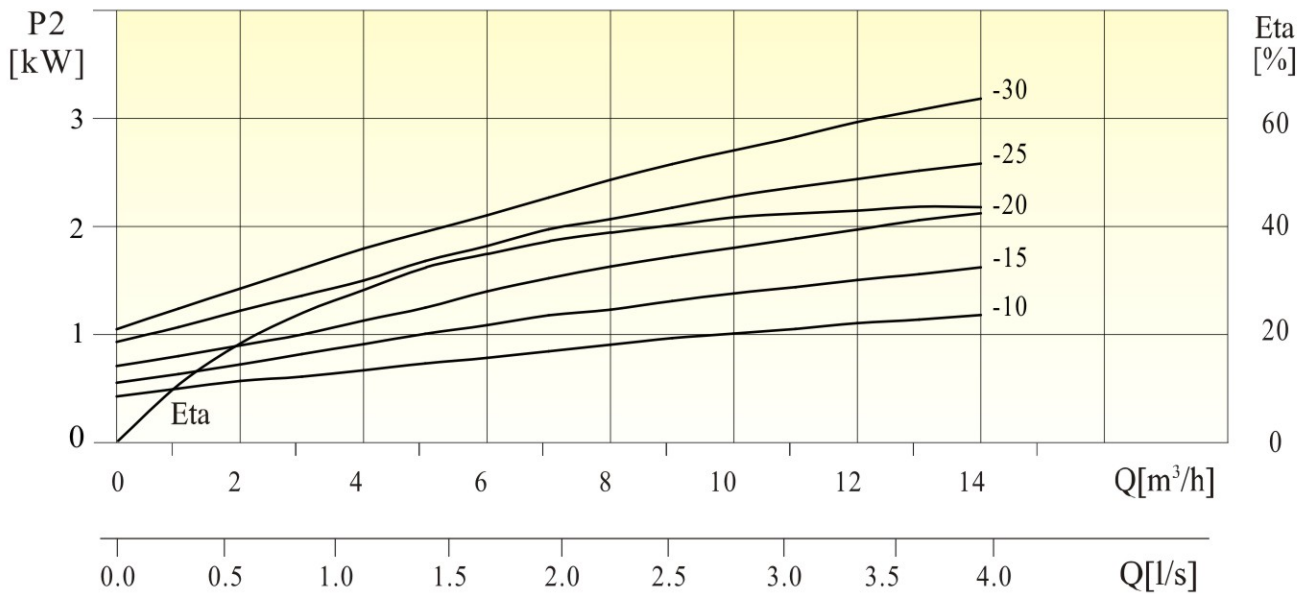
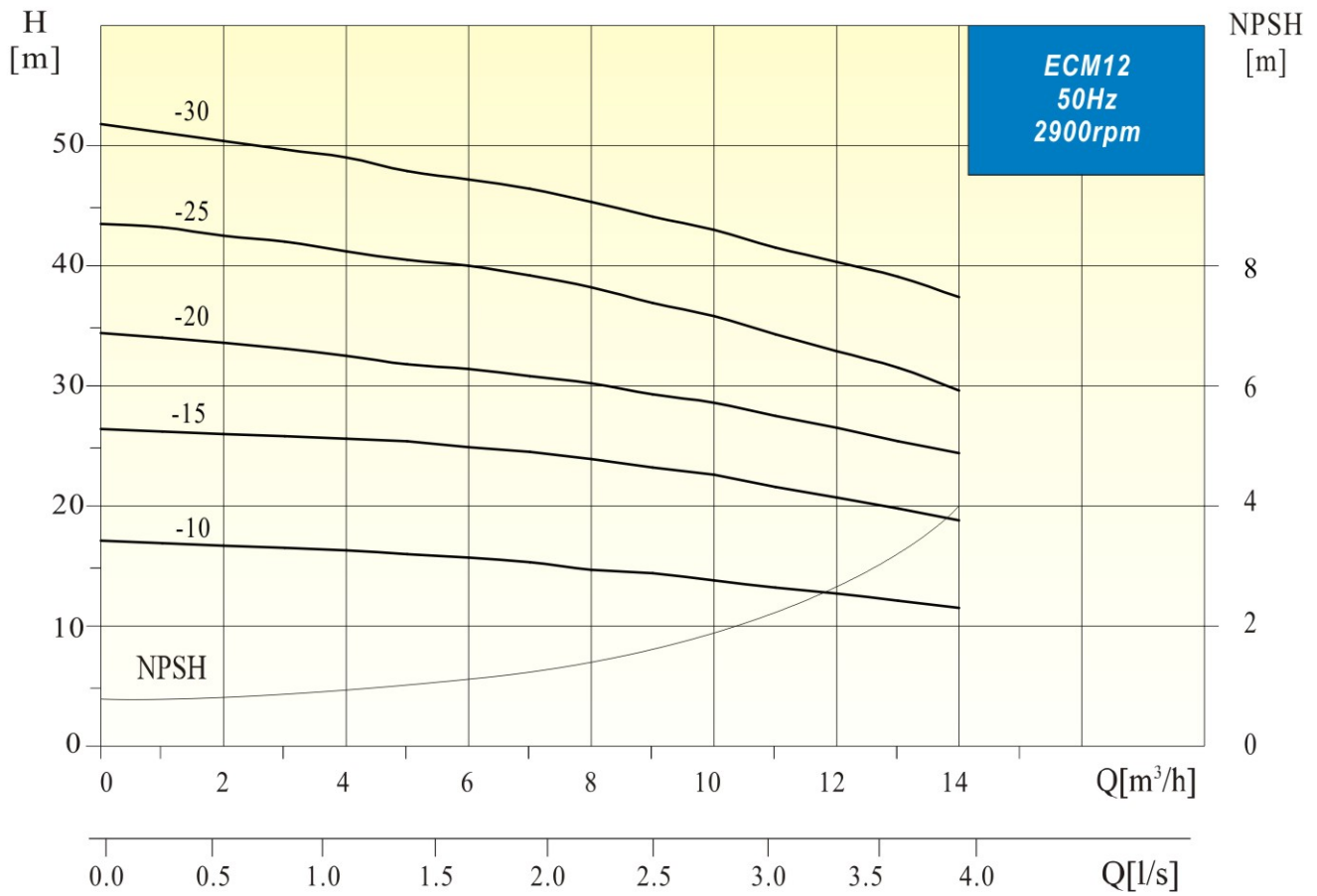


Model	KW	Size(mm)										Weight (Kg)
		Single phase					Three phase					
		L	L1	L2	H	D	L	L1	L2	H	D	
ECM8-10(T)	0.55	355	112	77	265	170	345	112	77	230	150	12
ECM8-15(T)	0.75	433	142	107	280	188	423	142	107	250	162	14
ECM8-20(T)	1.0	423	142	107	270	188	423	142	107	250	162	17
ECM8-25(T)	0.5	463	172	137	280	188	453	172	137	250	162	19
ECM8-30(T)	1.85	463	172	137	280	188	453	172	137	250	162	24
ECM8-35(T)	2.2	493	202	167	280	188	490	202	167	245	168	25
ECM8-40(T)	2.2	493	202	167	280	188	490	202	167	245	168	26

●T : Three phase motor

ECM12 Technical Data

▲ Performance Curves



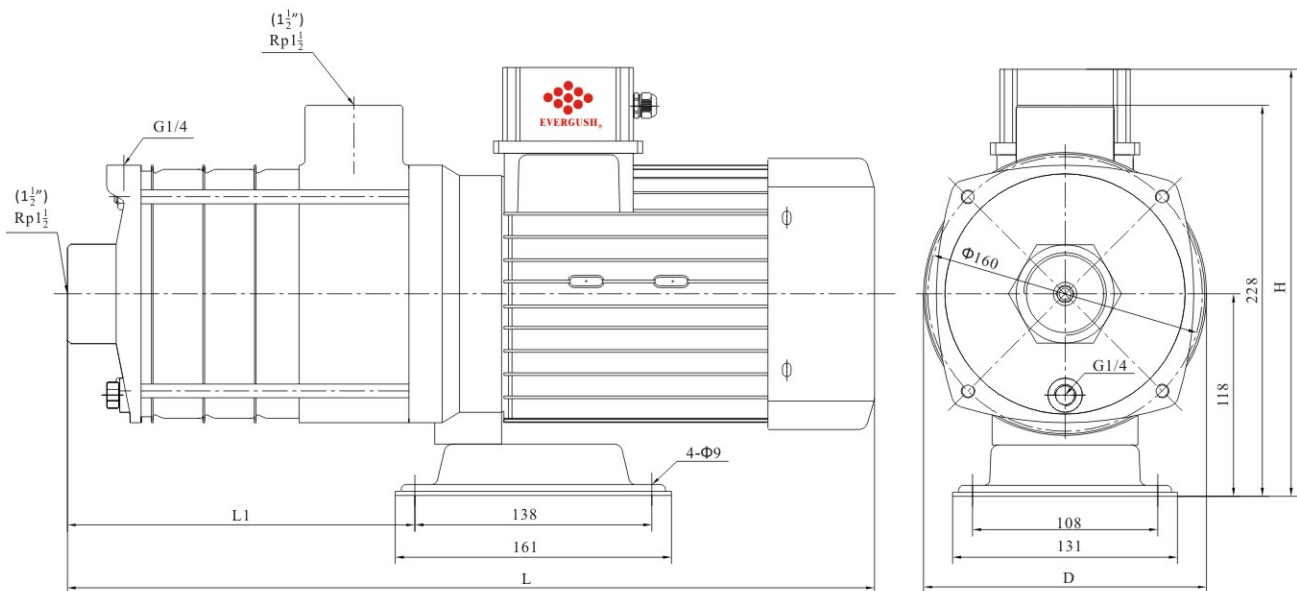
ECM12 Technical Data

▲ Performance Table

Model	Power		Q (m ³ /h)	6	7	8	9	10	11	12	13	14
	KW	HP										
ECM12-10(T)	1.0	1.3	H (m)	16	15.5	15	14.5	14	13.5	13	12	11.5
ECM12-15(T)	1.5	2.0		25	24.5	24	23.5	22.5	21.5	21	20	19
ECM12-20(T)	1.85	2.5		31.5	31	30.5	29.5	28.5	27.5	26.5	25.5	24.5
ECM12-25(T)	2.2	3.0		40	39.5	38.5	37	36	34.5	33	31.5	29.5
ECM12-30T	3.0	4.0		47.5	46.5	45.5	44	43	41.5	40.5	39	37.5

●T : Three phase motor

▲ Dimensions and Weight

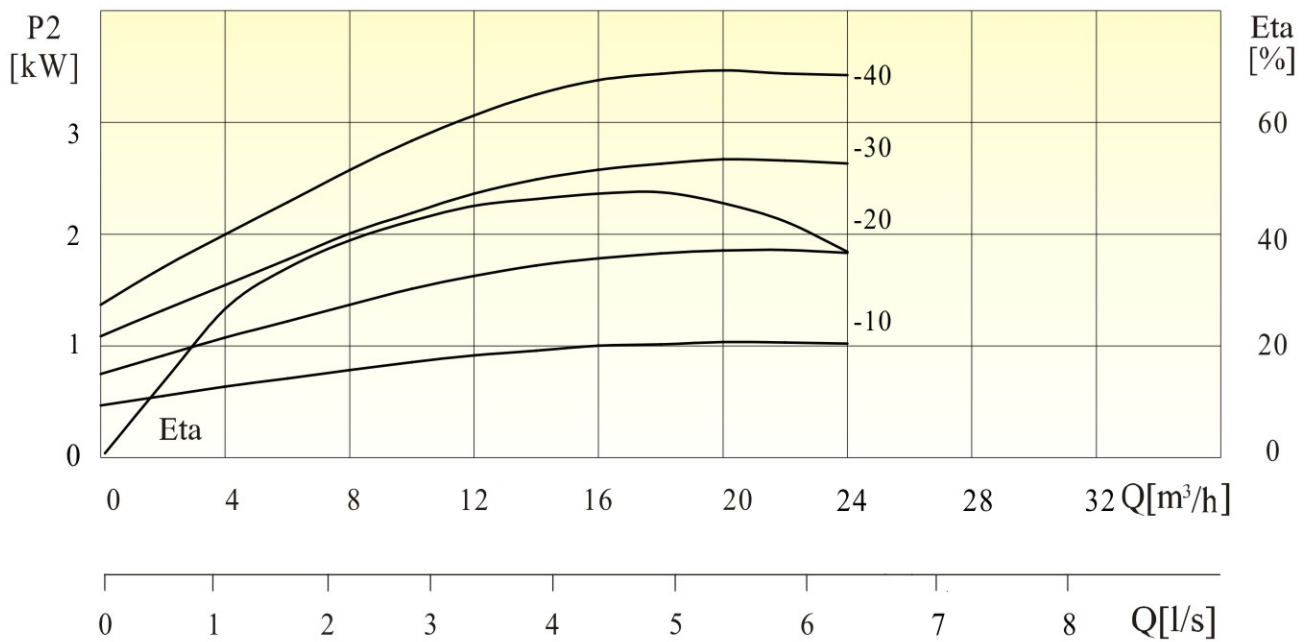
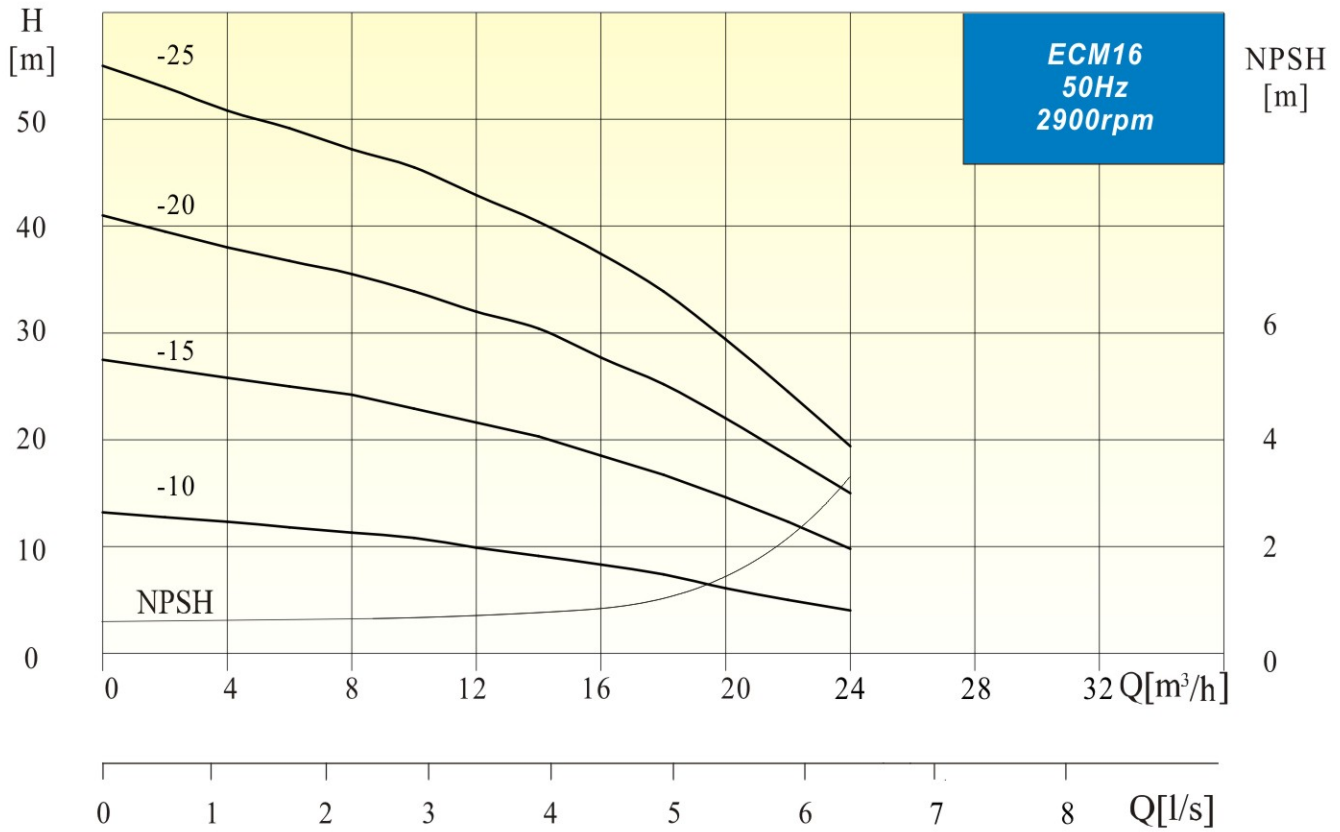


Model	KW	Size(mm)										Weight (Kg)
		Single phase					Three phase					
		L	L1	L2	H	D	L	L1	L2	H	D	
ECM12-10(T)	1	393	112	77	270	180	393	112	77	250	162	13
ECM12-15(T)	1.5	433	142	107	280	188	423	142	107	250	162	15
ECM12-20(T)	1.85	433	142	107	280	188	423	142	107	250	162	23
ECM12-25(T)	2.2	463	172	137	280	188	460	172	137	245	168	25
ECM12-30T	3	-	-	-	-	-	463	172	137	260	183	27

●T : Three phase motor

ECM16 Technical Data

▲ Performance Curves



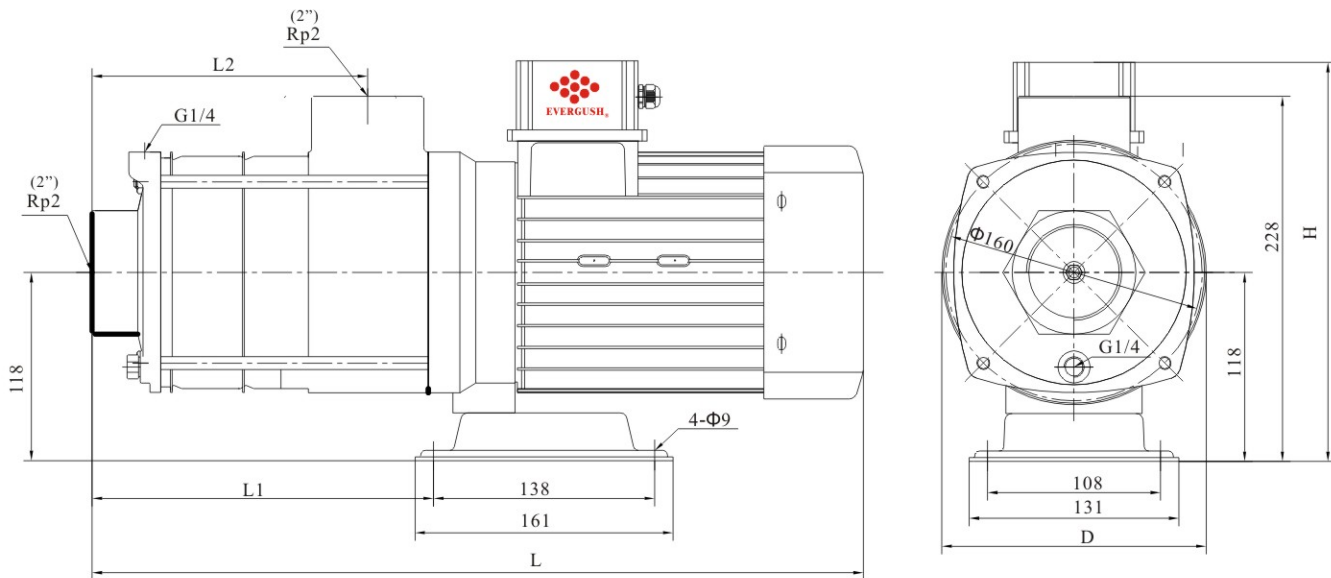
ECM16 Technical Data

Performance Table

Model	Power		Q (m ³ /h)	8	10	12	14	16	18	20	22	24
	KW	HP										
ECM16-10(T)	1.0	1.3	H (m)	11.5	11	10	9	8.5	7.5	6	5	4
ECM16-15(T)	1.5	2.0		24.5	23	21.5	20.5	18.5	17	14.5	12.5	10
ECM16-20(T)	2.2	3.0		35.5	34	32	30.5	28	25.5	22	18	15
ECM16-25T	3.0	4.0		47.5	45.5	43.5	40.5	37.5	34	29.5	24.5	19.5

●T : Three phase motor

Dimensions and Weight

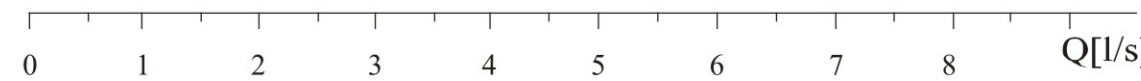
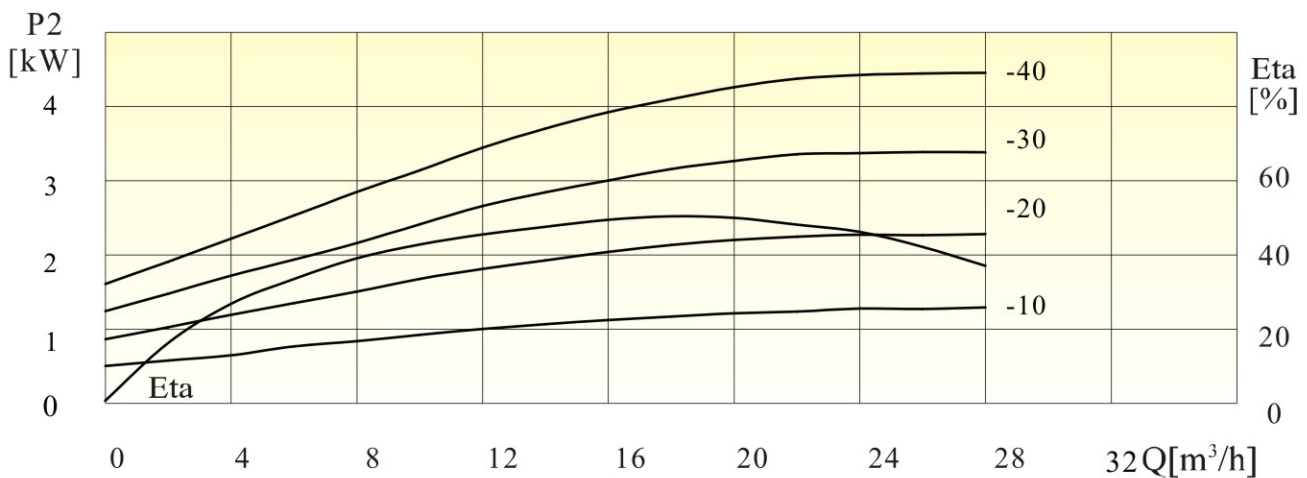
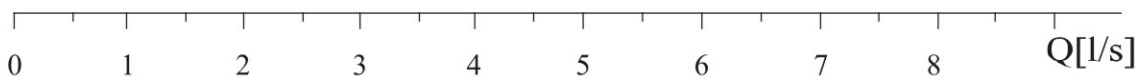
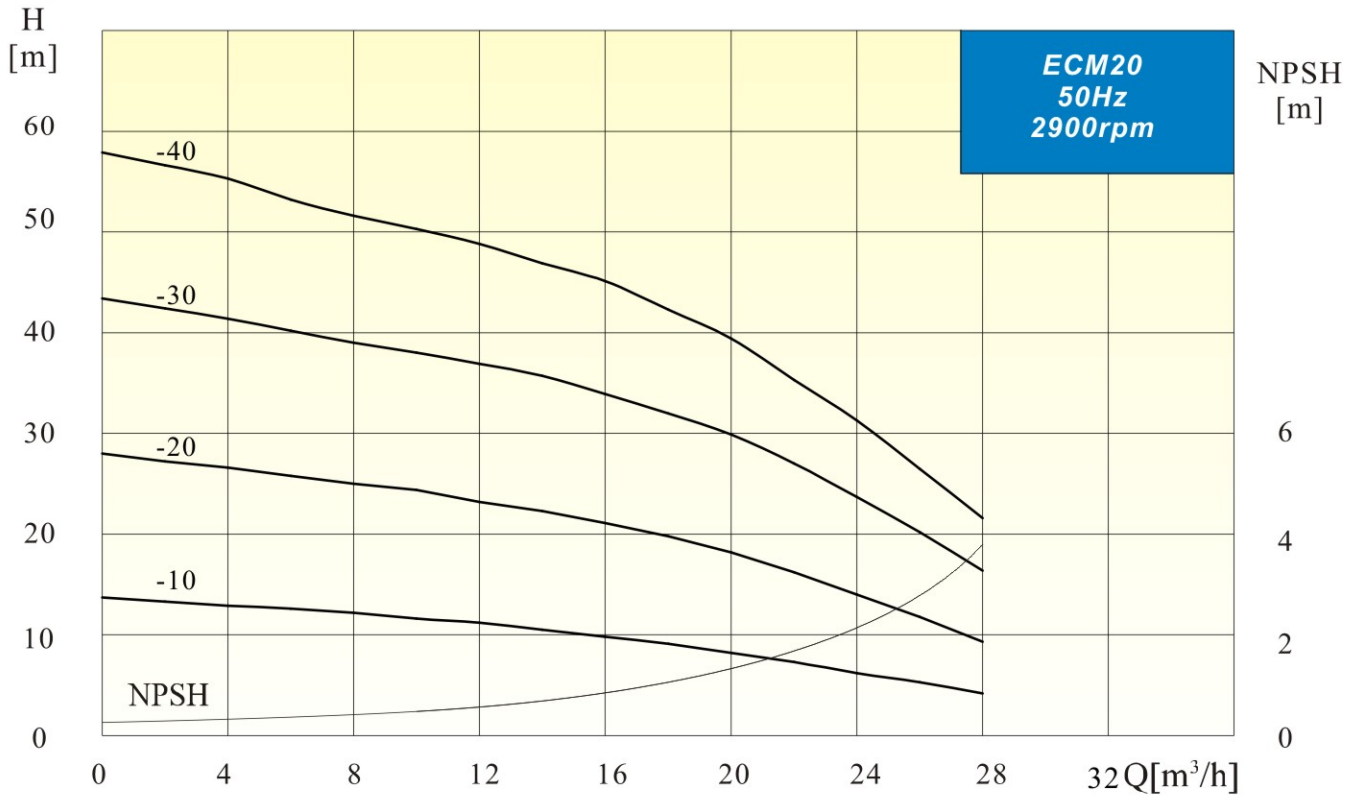


Model	KW	Size(mm)										Weight (Kg)
		Single phase					Three phase					
		L	L1	L2	H	D	L	L1	L2	H	D	
ECM16-10(T)	1.0	404	123	82	270	180	404	123	82	250	162	12
ECM16-15(T)	1.5	459	168	127	280	188	449	168	127	250	162	18
ECM16-20(T)	1.85	504	213	172	280	188	501	213	172	245	168	25
ECM16-25T	2.2	-	-	-	-	-	549	258	217	260	183	28

●T : Three phase motor

ECM20 Technical Data

▲ Performance Curves



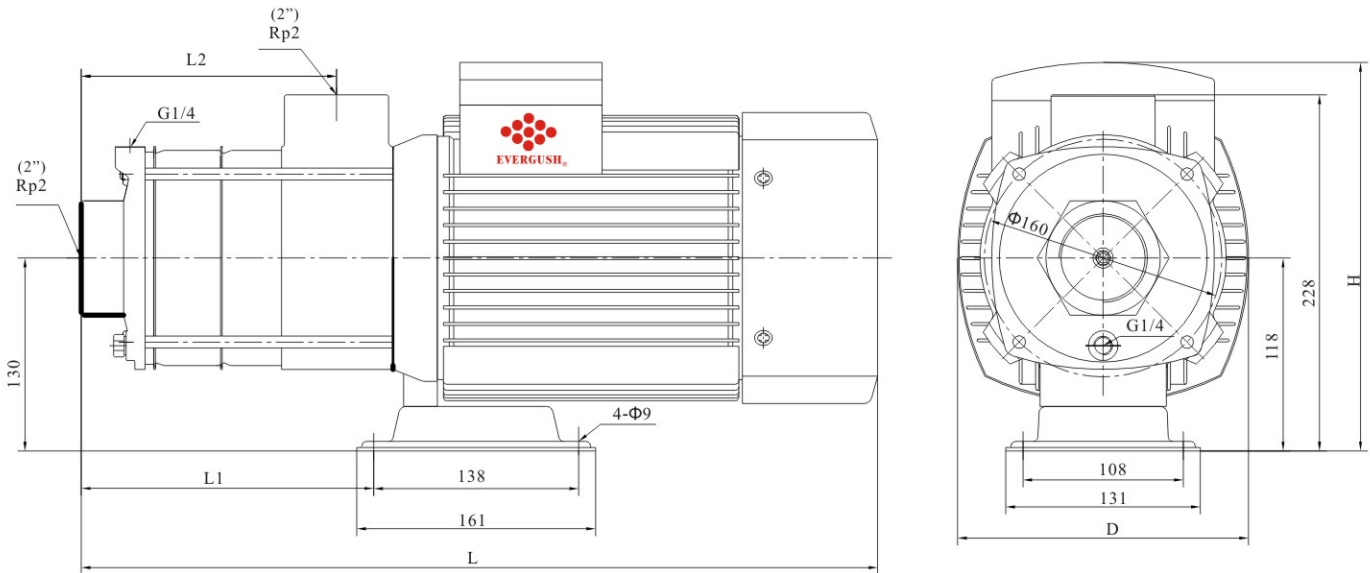
ECM20 Technical Data

▲ Performance Table

Model	Power		Q (m ³ /h)	10	12	14	16	18	20	22	24	26	28
	KW	HP		H (m)									
ECM20-10(T)	1.0	1.3		12	11.5	10.5	10	9	8.5	7.5	6.5	5.5	4.5
ECM20-20(T)	1.85	2.5		24.5	23.5	22.5	21	20	18.5	16.5	14	12	9.5
ECM20-30T	3.0	4.0		38	37	36	34	32	30	27	24	20.5	16.5
ECM20-40T	4.0	5.5		50.5	49	47	45	42.5	39.5	35.5	31.5	26.5	21.5

●T : Three phase motor

▲ Dimensions and Weight



Model	KW	Size(mm)										Weight (Kg)
		Single phase					Three phase					
		L	L1	L2	H	D	L	L1	L2	H	D	
ECM20-10(T)	1.0	404	107	82	270	180	404	404	82	250	162	14
ECM20-20(T)	1.85	459	152	127	280	188	449	449	127	250	162	24
ECM20-30T	3.0	-	-	-	-	-	504	504	172	260	183	28
ECM20-40T	4.0	-	-	-	-	-	579	579	217	165	196	33

●T : Three phase motor



▲ Features

- Non-clogging impeller minimizes abrasives wear and allows large solid passage.
- Dry motor with overload protector; Cable with an epoxy resin sealed water-proof cable hood; Use deep groove C3 bearing to extend life time.
- Superior abrasion resistant double mechanical seal to ensure best seal effect.
- Oil seal mounted outside of seal chamber stops solids gathering around seal faces.

▲ Motor Spec.

- 2P dry or oil type motor.
- Insulation: F class.
- Protection: IP68.
- Frequency: 50HZ
- Voltage: 1 ϕ 220~240V(0.5~2HP)
3 ϕ 220~660V(all models)



EF Non-clogging Vortex Impeller

▲ Applications

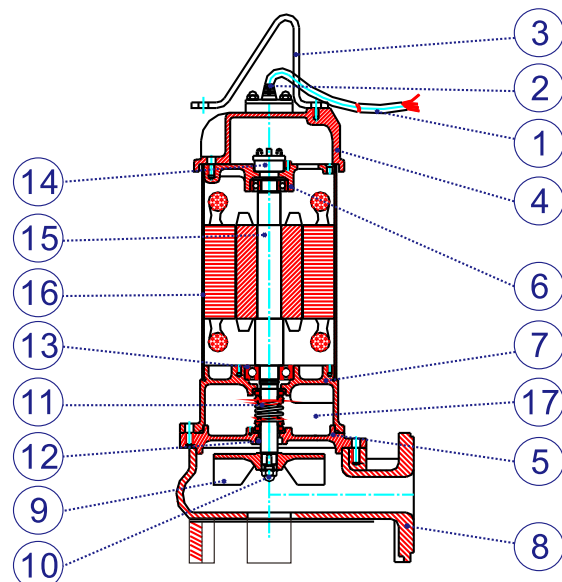
- Waste water drainage from all industries.
- Sewage drainage from hotels, restaurants, schools, malls, and public facilities.
- Fishery, animal husbandry, stock farm, piggery, fecal sewage tank in waste water treatment plant.
- Drainage of waste water containing fibrous additives from leather factory, dyeing factory and food processing factory.



▲ Parts and Materials List

No.	Parts	Std. Material
		EF Model
1	Cable	UL_STOW or VCT
2	Cable hood	PVC
3	Handle	Nylon6 or SS400
4	Motor cover	Nylon66 or FC200
5	Seal housing	FC200
6	Bracket	FC200
7	Oil chamber	FC200
8	Pump casing	FC200
9	Impeller	FC200
10	Nut	SUS304
11	Mech. seal	CA/CE
12	Oil seal	NBR
13	Bearing	(NTN brand)
14	Overload protector	(T.I.brand)
15	Shaft	SUS410
16	Motor housing	SUS304
17	Lubricant oil	(Turbine Oil ISO VG46)

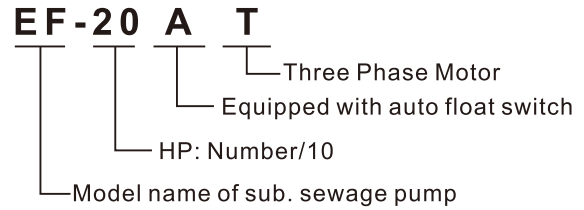
• Mech.seal (sic/sic)material is optional upon request.



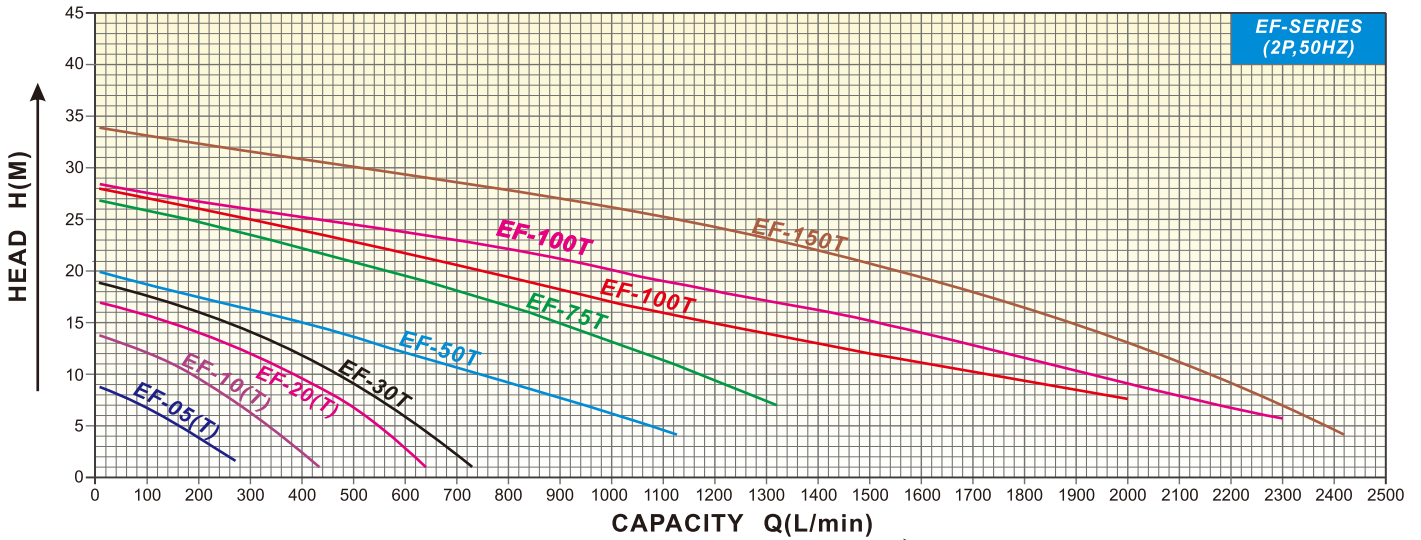
Operating Conditions

- Water temperature: 0~40°C.
- Ambient temperature: 0~40°C.
- Solid passage: 35~50MM.
- Operating water depth: Max. 10M.
- No use in sea water.
- No 24hrs continuously running.

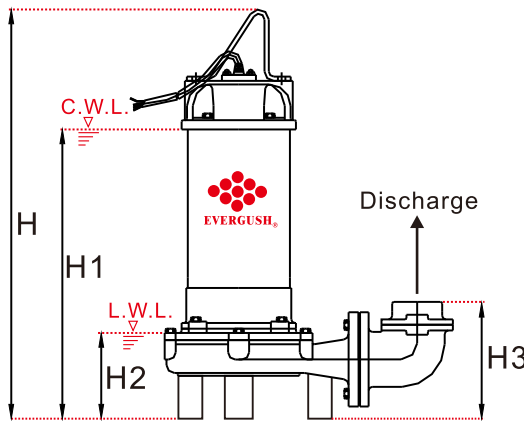
Model Code



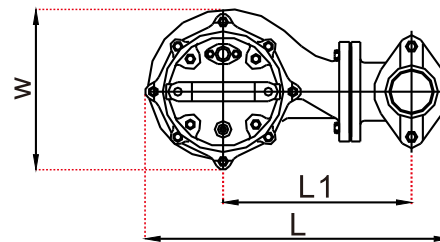
Performance Curves



Specification & Dimension



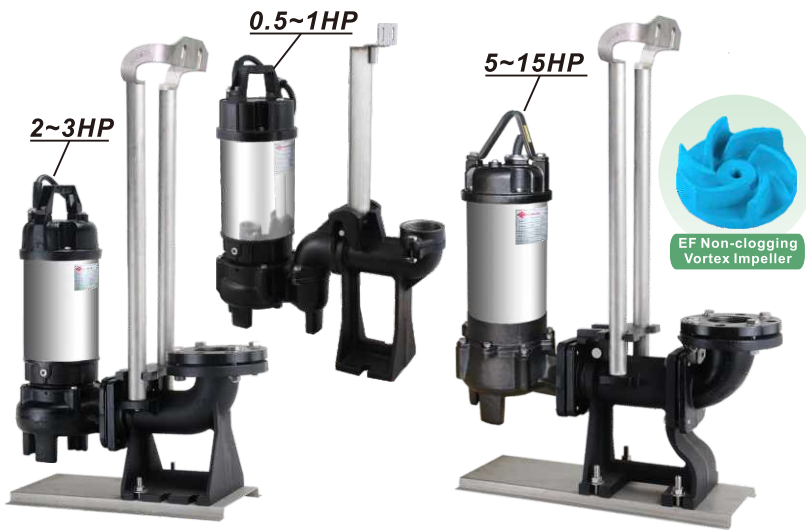
NOTE: Forbid running submersible pumps continuously under L.W.L.



C.W.L.: Continously Running Water Level.
L.W.L.: Lowest Running Water Level.

Model	Type	Power		Disch. Inch	Phase φ	Rated		Max.		Dimensions (mm)							Cable M	Net Weight KG	Solid Passage MM
		KW	HP			Head M	Capacity LPM	Head M	Cap. LPM	L	L1	W	H	H1	H2	H3			
EF-05(A)(T)	Direct	0.37	0.5	2"	1,3	5~6	160~125	9.0	300	222	115	145	410	297	113	133	5	13	35
EF-10(A)(T)	Direct	0.75	1	2"	1,3	9~10	220~185	14	450	222	115	149	464	340	113	133	5	18	35
EF-20(A)(T)	Elbow	1.5	2	2"(3")	1,3	9~10	420~380	17	650	387	234	208	548	400	122	153	5	33	35
	Direct									316	163	208	548	400	122	153	5	30	35
EF-30T	Elbow	2.2	3	2"(3")	3	10~11	470~430	19	750	387	234	208	568	420	122	153	5	35	35
	Direct									316	163	208	568	420	122	153	5	32	35
EF-50T	Elbow	3.7	5	3"(4")	3	11~13	680~540	20	1200	459	256	227	638	471	160	220	5	55	50
EF-75T	Elbow	5.5	7.5	3"(4")	3	15~19	900~640	27	1450	459	256	227	678	511	160	220	5	61	50
EF-100T	Elbow	7.5	10	3"	3	17~19	1000~840	28	2100	550	280	310	680	511	210	250	5	87	50
EF-100T	Elbow	7.5	10	4"	3	17~19	1200~1500	28	2200	560	300	310	700	560	230	290	10	102	40
EF-150T	Elbow	11	15	4"	3	18~22	1700~1400	34	2500	560	310	310	730	580	250	310	10	110	40

Remarks: ● (A): Equipped with automatic float switch. ● (T): Three phase motor. ● 10M cable are available for 0.5~10HP models per special request.



Product Features

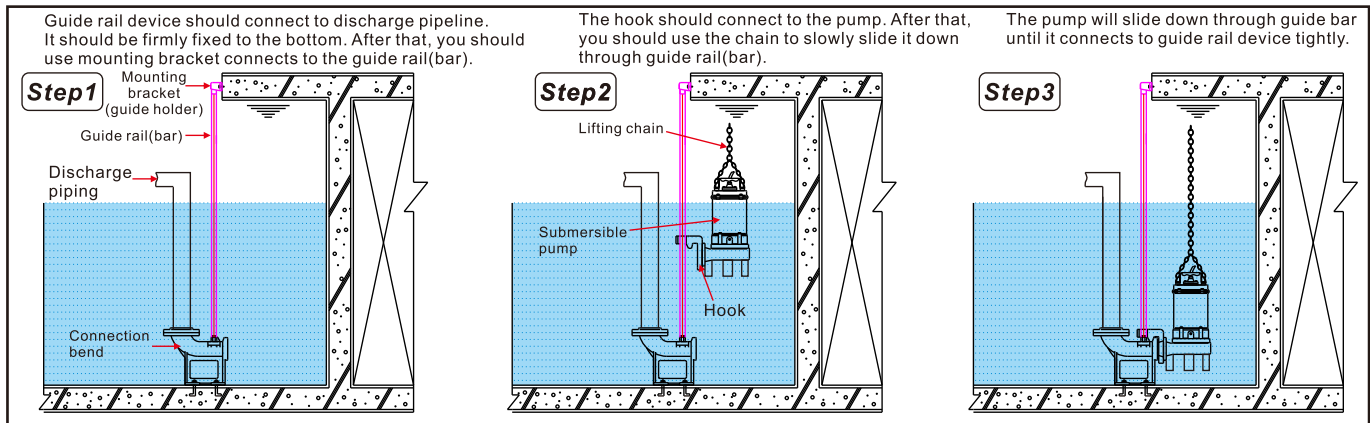
- Through simple and convenient install, we can connect the pump onto guide rail device. Whenever the pump needs maintenance, it can be easily pulled out through guide bar to dismantle, repair or examine the pump. For Safety purpose, the worker no longer needs to go down the septic tank for maintenance. It's greatly time-saving.



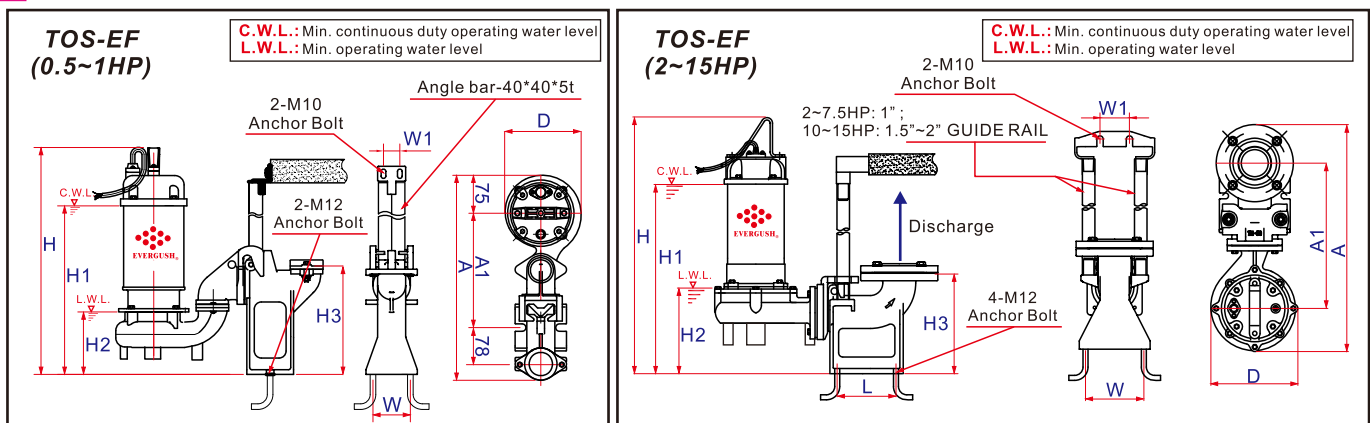
Applications

- Animal husbandry and dairying septic tank waste water drainage; sewers, apartments, buildings and basements sewage treatment equipment drainage; Dye house, fur and leather industry and steel industry waste water drainage; other waste water treatments drainage.

Installation Diagram:



Dimension:



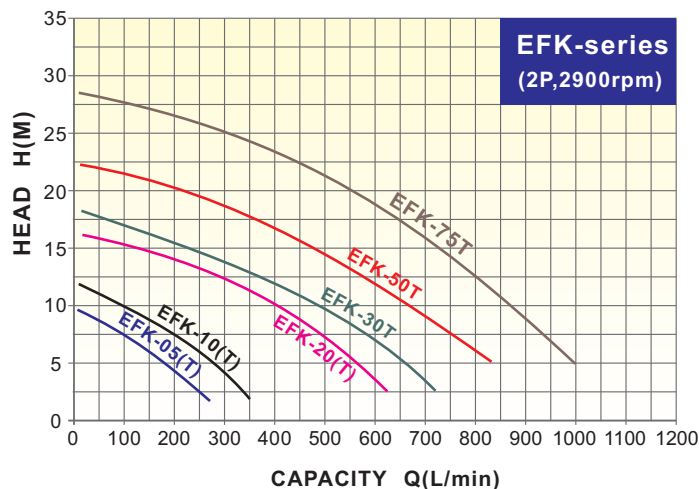
Model	Power	Disch. Inch	Dimensions(mm)										Weight(KG)	
	HP		A	A1	D	H	H1	H2	H3	L	W	W1	TOS Device	TOS & PUMP
TOS-EF-05(T)	0.5	2"	425	240	150	422	307	150	225	---	80	35	6	19
TOS-EF-10(T)	1	2"	425	240	150	502	377	150	225	---	80	35	6	24
TOS-EF-20(T)	2	3"	545	350	210	650	480	210	243	110	140	70	16	49
TOS-EF-30T	3	3"	545	350	210	670	500	210	243	110	140	70	16	51
TOS-EF-50T	5	4"	725	515	230	745	580	270	310	160	150	70	24	79
TOS-EF-75T	7.5	4"	725	515	230	785	620	270	310	160	150	70	24	85
TOS-EF-100T	10	4"	820	550	290	750	550	280	330	210	125	245	38	125
TOS-EF-150T	15	4"	770	510	310	785	635	305	360	180	125	245	40	150

Remarks: ● TOS means cast iron guide rail device. (Q.D.C: Quick Discharge Device) ● "T" means 3 phase motor.

50HZ



Performance Curves



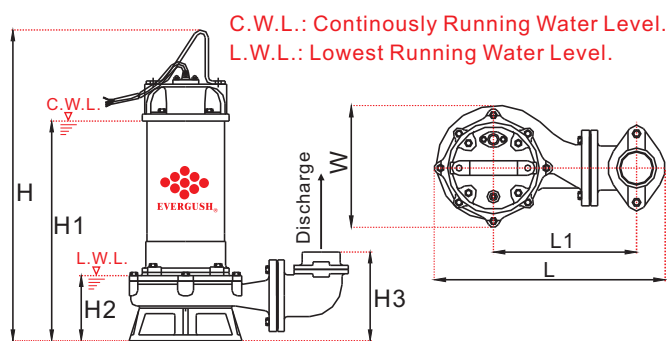
Features

- Impeller is tipped with tungsten cutter to cut off hard objects and prevents impeller from being damaged by hard articles.
- Epoxy resin cable base, 2p dry motor, C3 deep groove bearing, dual mechanical seals, auto-cut protector.

Applications

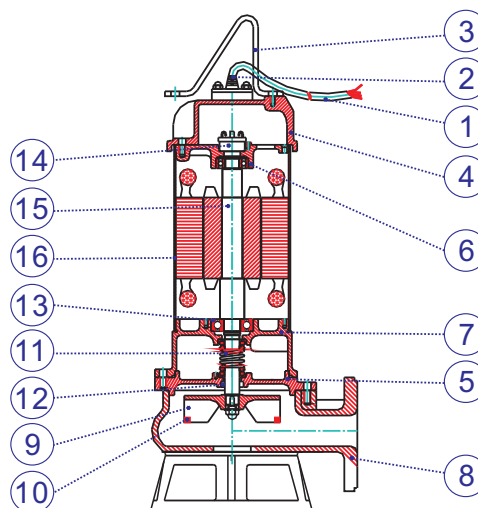
- Sewage drainage from hospitals, schools, husbandry, buildings, stock farm, plants, subway tunnel...etc.
- Dewatering waste water containing hard objects, like sticks, excrement, tiny gravel...etc.

Specification & Dimensions



NOTE: Forbid running submersible pumps continuously under L.W.L.

Parts and Materials List



NO	Part	Std. Material	NO	Part	Std. Material
1	Cable	VCT	9	Impeller	FCD450
2	Cable Hood	PVC	10	Cutter edge	Tungsten
3	Handle	Nylon6/SS400	11	Mech. Seal	CA/CE
4	Motor Cover	Nylon66/ FC200	12	Oil Seal	VITON
5	Seal Housing	FC200	13	Bearing	(NTN brand)
6	Bracket	FC200	14	Protector	(T.I.brand)
7	Oil Chamber	FC200	15	Shaft	SUS410
8	Pump Casing	FC200	16	Motor Housing	SUS304

● Mech.seal (sic/sic)material is optional upon request.

Model	Power		Disch. Inch	Phase φ	Rated		Max.		Dimensions (mm)							Cable M	Net Weight KG	Solid Passage MM
	KW	HP			Head M	Capacity LPM	Head M	Cap. LPM	L	L1	W	H	H1	H2	H3			
EFK-05(A)(T)	0.37	0.5	2"	1,3	5~6	180~150	9.5	300	222	115	145	361	248	64	84	5	13	22
EFK-10(A)(T)	0.75	1	2"	1,3	6~7.5	250~200	12	400	222	115	149	416	292	64	84	5	18	22
EFK-20(A)(T)	1.5	2	2"(3")	1,3	10~11	400~350	16	650	403	250	212	541	393	115	169	5	33	22
EFK-30T	2.2	3	2"(3")	3	11~12	450~400	18	750	403	250	212	561	413	115	169	5	35	22
EFK-50T	3.7	5	3"(4")	3	12~13	600~550	22.5	1000	463	260	227	610	445	138	220	5	55	28
EFK-75T	5.5	7.5	3"(4")	3	12.5~15	800~730	28	1100	463	260	227	650	485	138	220	5	61	28

Remarks: ●(A): Equipped with automatic float switch. ●(T): Three phase motor. ●10M cable are available for 0.5~7.5HP models per special request.

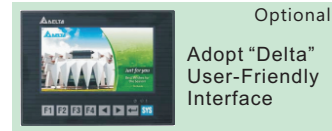
- **PC-series: Pressure control**
- **UP-series: Inverter control**



Duplex Operation



Quadruple Operation



Optional

Adopt "Delta" User-Friendly Interface



Duplex Operation (User-Friendly Interface)



Simplex Operation

Product Features

1. Provide stable water pressure while using hot shower.
2. No water hammer, improve start/off frequency.
3. Low noise and smooth operation. The system will adjust motor speed automatically, according to demand of water capacity. It can save energy resources and uplift performance.
4. Choose appropriate capacity of pressure tank, types of water pumps, quantities of inverter, and operation approach.
5. Dry-running detection. Inverter pump will turn off automatically in 15 seconds once water outage occurs, to protect motor from burnout. Inverter will auto detect water status and restart pump in 20 minutes until normal water returns.
6. No need water tank, to reduce the cost of maintenance.
7. Adopting high quality "DELTA" inverter, high efficiency, softly start/off functions.

Applications

Water supply for IC manufacture industries, industrial pressure boosting systems, motels, restaurants, gas stations, apartments, factories, schools, parks, gymnasiums, villas, railway station, building sites, etc.

Inverter Functions

This equipment can calculate and export analog continuous signal to inverter according to system pressure variation, sense the difference between the signal and microcomputer constant pressure controller setting. The inverter will change frequency again by the variation of 4-20MA. The pump motor speed changed according to the variation of frequency to achieve the major function of constant pressure and other function such as shut down during no incoming water, no water hammer, softly start up/stop etc.

Pressure Tank Selections

A. Iron Pressure tank

No	Part Name	Specification:
1	Pressure tank	● Capacity: 50L~500L
2	Pressure switch	● Material: SS41 or SUS304
3	Exhaust valve	● Working pressure: Max. 20Kg/cm ²
4	Pressure gauge	
5	Pressure release valve	

It is tailor made especially for more than 7kg/cm² automatic booster system device. This is our company patent. It requires no pneumatic transmit device, or mechanical air supply at large facility. It can endure up to 20kg/cm² pressure to replace the location where diaphragm pressure tank cannot tolerate.

B. Diaphragm Pressure tank

Specifications:

- Capacity: 8L~100L
- Material: SS41 or SUS304
- Working pressure: Max. 10Kg/cm²

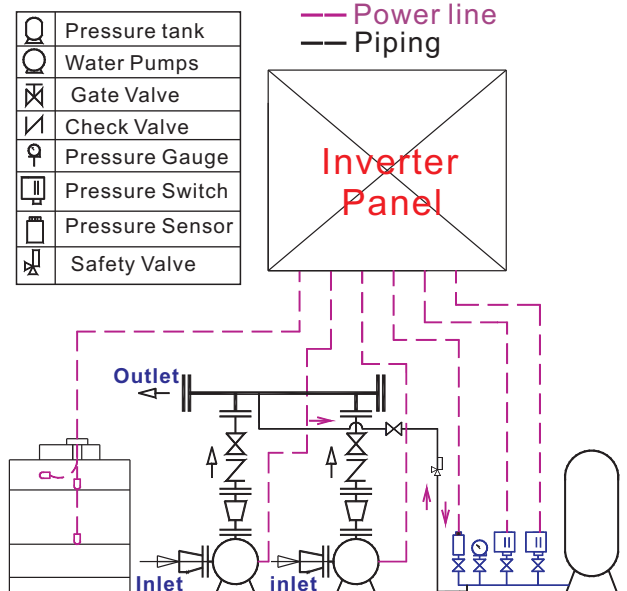
It is made of metal housing and can resist higher pressure than plastics. The clearance between metal molecules is small to eliminate leakage possibility. The diaphragm design provides stable capacity. Water and metal housing separated to eliminate corrosion possibility.



Inverter(VFD)

User-Friendly Interface

System Diagram



▲ Pump Selections

UP/PC-ECM.ECMH **Horizontal Multi-stage Centrifugal Pump**
 Low operation noise, internal part in contact with liquid is stainless steel with multistage impeller. High head and large capacity. Safe and clear water supply.
 Head(M): Max.76M
 Capacity(L/min): Max.16 M³/hr (Simplex)
 Power(HP): 0.5HP~5HP
 Pump Inlet: 1"~ 2"
 Pump outlet : 1"~ 2"

UP/PC-EXA.ESO **End-Suction Centrifugal Pump**
 Back pull out design, DIN24255,ISO2858 standard , wear-resisting mechanical seal, diversity pump material selection,optimal performance.
 Head(M): Max.160M
 Capacity(L/min): Max.1080 M³/hr (Simplex)
 Power(HP): 3HP~300HP
 Pump Inlet flange: Max. 12"
 Pump outlet flange: Max. 10"

UP/PC-CP, CPS **Close coupled Centrifugal Pump**
 Special volute design for low noise operation. The motor and pump is coaxial conjoined for saving space and minimize fluctuation. Optimal performance and diverse pump material selection.
 Head(M): Max.85M
 Capacity(L/min): Max.950 M³/hr (Simplex)
 Power(HP): 0.5HP~150HP
 Pump Inlet flange: Max. 10"
 Pump outlet flange: Max. 10"

UP/PC-ECDL **Vertical Multi-stage Centrifugal Pump**
 Stainless steel multi-stage impeller and pump casing for high performance and clean water provided. Vertical design for saving space. Suitable for high pressure requirement.
 Head(M): Max.310M
 Capacity(L/min): Max.120 M³/hr (Simplex)
 Power(HP): 0.5HP~60HP
 Pump Inlet flange: Max. 6"
 Pump outlet flange: Max. 6"

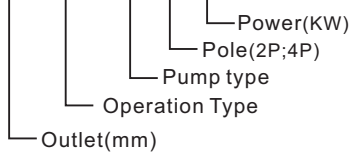
(For any special specifications or different models, customized production and application are available.)

▲ Model Code

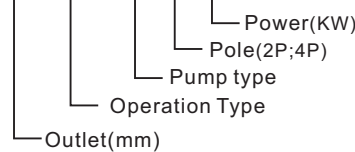
1. Multi-pumps type

2. Simplex type

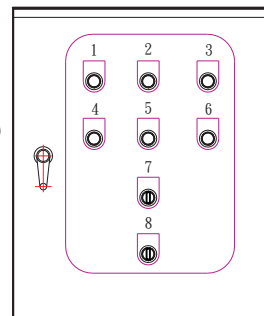
100UP-CP23.7



100US-CP23.7

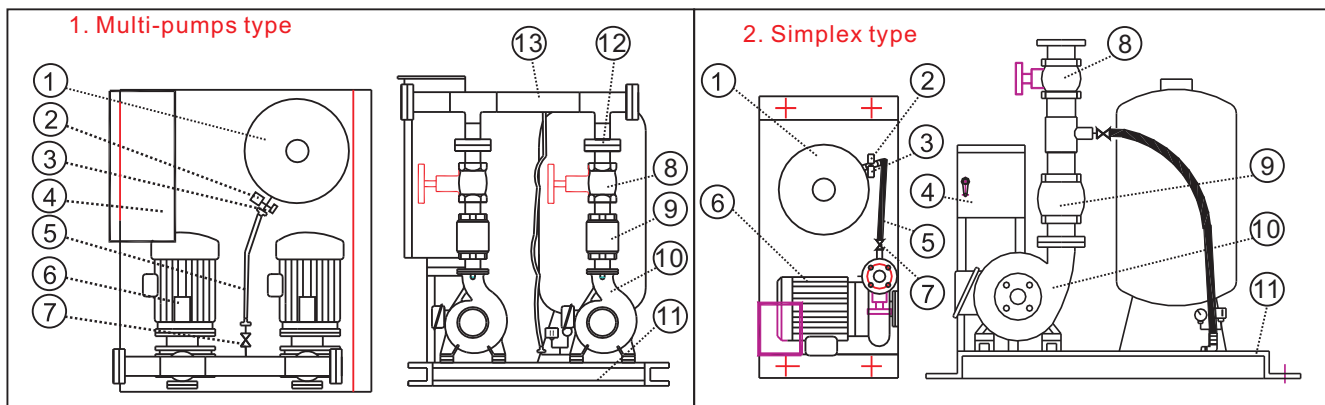


▲ Inverter Control Panel Illustration



No	Name
1	First one running
2	Power Light(White)
3	The second running
4	First one failure
5	Water shortage in water tank
6	The second failure
7	First one,auto,stop,manual
8	The second,auto,stop,manual

▲ Part Names & Materials:



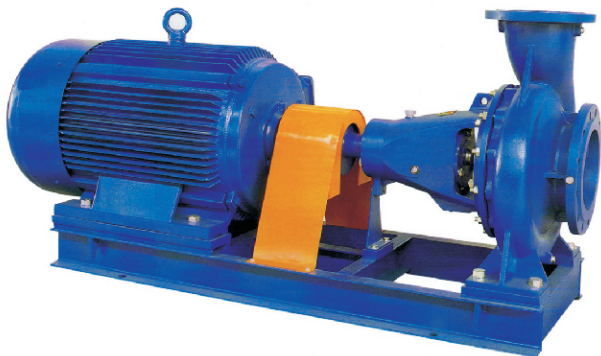
NO	Name	Std.Material	Sub.Material
1	Pressure Tank	SS41	SUS304
2	Pressure Switch	----	----
3	Pressure Sensor	SUS304	----
4	Control Panel	SS41	SUS304
5	High pressure tube	SUS304	----
6	Motor	FC200	----
7	Ball Valve	BC6	SUS304

NO	Name	Std.Material	Sub.Material
8	Gate Valve	BC6/FC200	SUS304
9	Check Valve	BC6/FC200	SUS304
10	Water Pump	FC200	SUS304/SUS316
11	Bottom Base	SS41	SUS304
12	Flang assembly	SS41	SUS304
13	Interflow pipe	SS41	SUS304

● Further detailed information are available in EVERGUSH website: [Http://www.evergushpump.com.tw](http://www.evergushpump.com.tw)

50Hz

XA-SERIES End suction centrifugal pump (DIN24255)



Applications

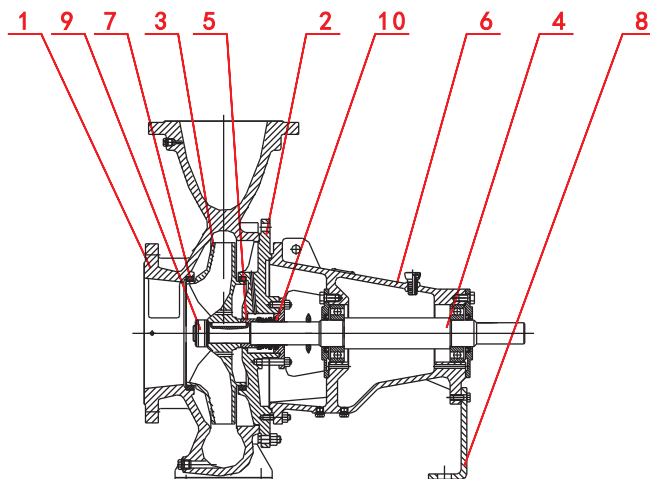
- Air conditioning systems(cooling tower)
- Broad range of industrial applications
- Temporary water supply booster systems
- Open loop or close loop circulation systems
- Water supply to multi-storey buildings or households. Fire fighting systems.

Product features

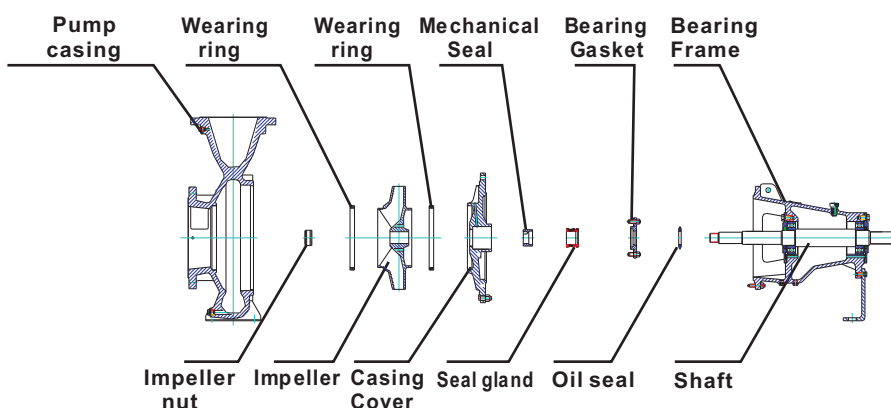
1. Back-pull out design which allows the pump bearing frame and impeller to be backed out of the volute without disturbing the pump piping connections. Also lower cost for maintenance and repair.
2. Specially designed wear-resisting mechanical seal--general use of life time exceeds 100,000 hours. Minimizes leakage and maximizes bearing life even operate under high pressure.
3. It requires only 5 kinds of overhangs, 6 kinds of shafts and 4 kinds of bearings for entire series of 42 models. It will effectively minimize accessory inventory and enhance pump components interchangeability.
4. Good suction performance--Bigger suction structure which lowers suction flow rate enable the pumps have better suction performance. Increases reliability and maximizes impeller and casing life.
5. Complies with international standard EN733(DIN24255) for interchangeability of components between all individual pump sizes.
6. Adopting molded impeller, copper o-ring, stainless steel shaft and bearing for high quality products.
7. Adopting TATUNG motor which conforms to insulation class F and protection IP54.

Sectional view:

NO	Part Name	Standard material	Available material
1	Pump casing	FC200	SUS316
2	Casing cover	FC200	SUS316
3	Impeller	FC200 / BC	SUS316
4	Shaft	SUS420	SUS316
5	Shaft sleeve	BC	SUS304
6	Bearing Frame	FC200	----
7	O ring	FC200 / BC	SUS316
8	Support foot	SS41	----
9	Impeller nut	BC	SUS316
10	Mechanical seal	SIC+NBR	SIC+SIC



Parts illustrated:



50Hz

XA-SERIES End suction centrifugal pump (DIN24255)

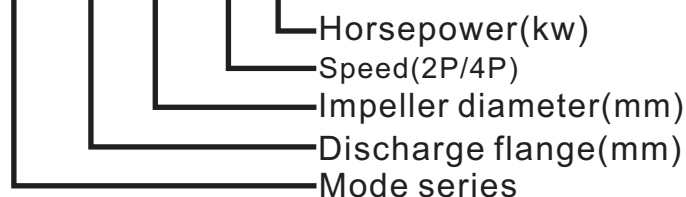


Operating conditions

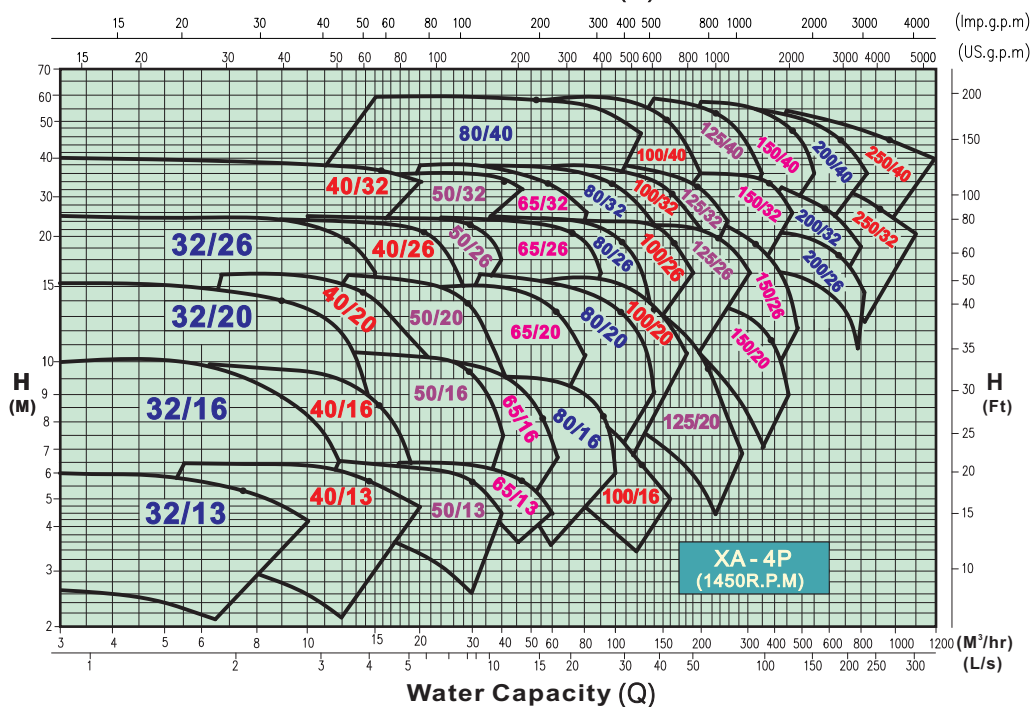
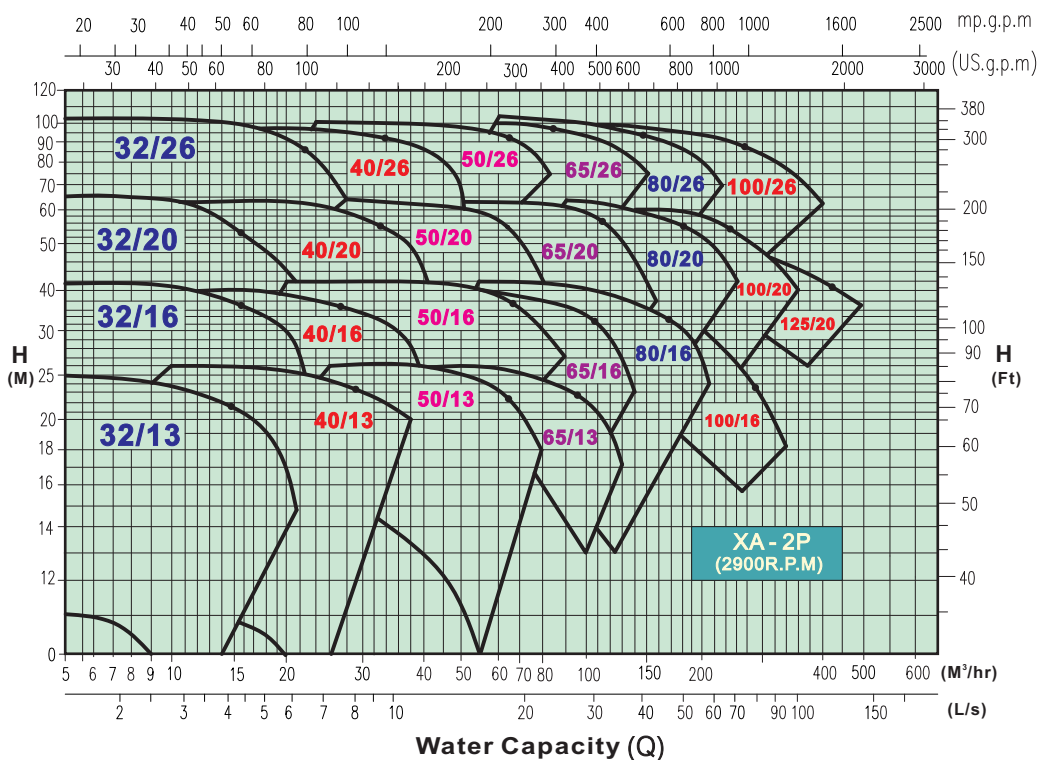
1. For clean non-corrosive or non-aggressive liquids, without solid particles.
2. Motor Speed: Max. 3500rpm
3. Ambient temperature: Up to 50°C
4. Liquid temperature: -10°C -105°C
(needs change to heat-resistant mechanical seal)
5. Working pressure: Max. 10~16kg/cm²
6. Head: Max. 146m
7. Capacity: Max. 1080m³/hr
8. Discharge Diameter: 32mm to 250mm

Model code

XA6520-422



Performance Range:



Performance Tables (2P)

Type	Outer dia. Of Impeller (mm)	Capacity		Head (m)	Speed (r/min)	Power (kW)		Required Motor	Efficiency (%)	NPSHR (m)	Dia of Pump		Dia of Taper Pipe (mm)		Pump Weight (kg)
		(m³/h)	(L/s)			Shaft Power	Motor Power				Inlet	Outlet	Inlet	Outlet	
XA32/13	Ø139	9	2.5	24.5	2900	1.23	1.5	2.2kW	49	1.8	50	32		50	27.5
		15	4.17	22		1.47	2.2		61	2					
		18	5	20		1.58	2.2		62	2.5					
	Ø130	8.5	2.36	21.2	2900	1.04	1.5	2.2kW	47	1.8	50	32		50	27.5
		14	3.89	19		1.23	1.5		59	1.95					
		17	4.72	17.2		1.31	2.2		60.5	2.3					
	Ø120	7.8	2.17	18	2900	0.89	1.1	1.5kW	43	1.8	50	32		50	27.5
		13	3.61	16.2		1.01	1.1		56.5	1.88					
		15.5	4.31	14.7		1.07	1.5		58	2.08					
XA32/16	Ø174	11	3.05	40	2900	2.49	3	4kW	48	1.9	50	32		50	35
		18	5	37		3.18	4		57	2					
		22	6.11	34		3.51	4		58	2.6					
	Ø165	10.5	2.92	35.7	2900	2.22	3	4kW	46	1.9	50	32		50	35
		17	4.72	33		2.78	3		55	1.95					
		21	5.83	30		3.06	4		56	2.4					
	Ø155	9.8	2.72	31.4	2900	1.93	2.2	3kW	43.5	1.9	50	32		50	35
		16	4.44	29		2.38	3		53	1.95					
		19.5	5.42	26.5		2.61	3		54	2.2					
XA32/20	Ø214	11	3.05	63	2900	4.71	5.5	7.5kW	40	1.8	50	32		50	41
		18	5	59		5.9	7.5		49	2					
		22	6.11	55.5		6.52	7.5		51	2.3					
	Ø205	10.5	2.92	57.2	2900	4.24	5.5	7.5kW	38.6	1.8	50	32		50	41
		17	4.72	54		5.26	7.5		47.5	1.95					
		21	5.83	50.2		5.79	7.5		49.5	2.2					
	Ø195	10	2.78	51.5	2900	3.69	5.5	5.5kW	38	1.8	50	32		50	41
		16.5	4.58	48		4.5	5.5		46.8	1.9					
		20	5.56	45		5.03	5.5		48.8	2.15					
XA32/26	Ø264	14	3.89	99	2900	11.3	15	18.5kW	33.5	2.1	50	32		50	59
		22	6.11	95		13.2	15		43	2.2					
		26	7.22	92		14.5	18.5		45	2.6					
	Ø255	13.5	3.75	91.8	2900	10.8	15	15kW	31.4	2.1	50	32		50	59
		21	5.83	88		12.6	15		40	2.2					
		25	6.94	85		13.6	15		42.5	2.5					
	Ø245	13	3.61	84.5	2900	9.97	11	15kW	30	2.15	50	32		50	59
		20.5	5.69	81		11.7	15		38.5	2.16					
		24	6.67	78.4		12.6	15		40.6	2.38					
XA40/13	Ø139	18	5	25.5	2900	2.08	2.2	4kW	60	1.8	65	40		65	30
		30	8.33	23.5		2.74	3		70	2					
		36	10	21.5		3.03	4		69.5	2.4					
	Ø130	16.8	4.67	22	2900	1.8	2.2	3kW	56	1.8	65	40		65	30
		28	7.78	20.2		2.3	3		67	2					
		33.6	9.33	18.8		2.56	3		67.2	2.25					

Performance Tables (2P)

Type	Outer dia. Of Impeller (mm)	Capacity		Head (m)	Speed (r/min)	Power (kW)		Required Motor	Efficiency (%)	NPSHR (m)	Dia of Pump		Dia of Taper Pipe (mm)		Pump Weight (kg)
		(m³/h)	(L/s)			Shaft Power	Motor Power				Inlet	Outlet	Inlet	Outlet	
XA40/13	Ø120	15.5	4.31	18.5	2900	1.48	1.5	3kW	53	1.8	65	40		65	30
		26	7.22	17		1.85	2.2		65	1.9					
		31	8.61	15.5		2.01	3		65	2.15					
XA40/16	Ø175	18	5	39.5	2900	3.65	5.5	5.5kW	53	2.1	65	40		65	36
		30	8.33	35		4.47	5.5		64	2.5					
		36	10	31.5		4.9	5.5		63	3.6					
	Ø165	17	4.72	34.8	2900	3.16	4	5.5kW	51	2.1	65	40		65	36
		28.5	7.92	30.5		3.82	5.5		62	2.5					
		34	9.44	27.6		4.19	5.5		61	3.25					
	Ø155	16	4.44	30.5	2900	2.77	4	4kW	48	2.05	65	40		65	36
		26.5	7.4	27		3.29	4		59.5	2.4					
		32	8.89	24		3.55	4		59	2.9					
XA40/20	Ø214	18	5	63	2900	6.3	7.5	11kW	49	1.8	65	40		65	44
		30	8.33	58		8.17	11		58	2					
		36	10	53		8.96	11		58	2.7					
	Ø205	17	4.72	57.4	2900	5.72	7.5	11kW	46.4	1.8	65	40		65	44
		29	8.06	52.4		7.46	11		55.5	1.95					
		34.5	9.58	48		8.05	11		56	2.45					
	Ø195	16.5	4.58	51.8	2900	5.28	5.5	11kW	44	1.8	65	40		65	44
		27.5	7.64	47.5		6.71	7.5		53	1.9					
		33	9.17	43.3		7.24	11		53.8	2.2					
XA40/26	Ø264	20	5.56	97	2900	13.2	15	22kW	40	1.8	65	40		65	61
		33	9.17	92		16.2	18.5		51	2					
		40	11.1	87		17.9	22		53	2.5					
	Ø255	19.5	5.42	89	2900	12.3	15	18.5kW	38.5	1.8	65	40		65	61
		32	8.89	84		15.1	18.5		48.5	1.95					
		38.5	10.7	79.5		16.4	18.5		51	2.35					
	Ø245	18.5	5.14	82	2900	11.2	15	18.5kW	37	1.8	65	40		65	61
		30.5	8.47	78		13.8	15		47	1.9					
		37	10.28	73		15	18.5		49	2.2					
XA50/13	Ø139	36	10	25.5	2900	3.85	5.5	7.5kW	65	2.5	65	50	80	80	34
		60	16.7	23		4.95	5.5		76	3.2					
		72	20	20.5		5.36	7.5		75	4					
	Ø130	33.5	9.31	22	2900	3.19	4	5.5kW	63	2.5	65	50	80	80	34
		56	15.6	19.5		4.02	5.5		74	3.1					
		67.5	18.8	17.2		4.33	5.5		73	3.6					
	Ø120	31	8.61	18.5	2900	2.56	3	5.5kW	61	2.5	65	50	80	80	34
		52	14.4	16.5		3.24	4		72	2.9					
		62	17.2	14.8		3.52	5.5		71	3.3					
XA50/16	Ø174	40	11.1	41.5	2900	7.06	7.5	11kW	64	2.5	65	50	80	80	38
		65	18.1	38		9.09	11		74	3.5					
		78	21.7	35		10.1	11		74	4.2					

Performance Tables (2P)

Type	Outer dia. Of Impeller (mm)	Capacity		Head (m)	Speed (r/min)	Power (kW)		Required Motor	Efficiency (%)	NPSHR (m)	Dia of Pump		Dia of Taper Pipe (mm)		Pump Weight (kg)
		(m³/h)	(L/s)			Shaft Power	Motor Power				Inlet	Outlet	Inlet	Outlet	
XA50/16	Ø165	38	10.6	37	2900	6.19	7.5	11kW	62	2.5	65	50	80	80	38
		61.5	17.1	33.8		7.9	11		72	3.3					
		74	20.6	31.2		8.75	11		72	3.9					
	Ø155	35.5	9.86	32.5	2900	5.24	5.5	11kW	60	2.35	65	50	80	80	38
		58	16.1	29.5		6.66	7.5		70	3.1					
		69.5	19.3	27		7.36	11		69.5	3.7					
XA50/20	Ø214	36	10	62	2900	10.5	15	18.5kW	58	2.5	65	50	80	80	46
		60	16.7	56		13.1	15		70	3.2					
		72	20	50		14.4	18.5		68	4					
	Ø205	34.5	9.6	56	2900	9.25	11	15kW	57	2.5	65	50	80	80	46
		57.5	16	50.5		11.5	15		69	3.1					
		69	19.2	45		12.6	15		67	3.75					
	Ø195	33	9.1	50.6	2900	8.13	11	15kW	55.5	2.5	65	50	80	80	46
		54.5	15.1	45.6		10	15		67.5	3					
		65.5	18.2	40.5		11	15		66	3.5					
XA50/26	Ø264	40	11.1	100	2900	20.2	22	37kW	54	2.5	65	50	80	80	63
		65	18.1	91		26	30		62	3.5					
		78	21.7	82		29	37		60	4.2					
	Ø255	38.5	10.7	92.5	2900	18.3	22	30kW	53	2.4	65	50	80	80	63
		63	17.5	84		23.6	30		61	3.3					
		75.5	21	75.6		26.3	30		59	3.9					
	Ø245	37	10.3	85.5	2900	16.6	18.5	30kW	52	2.3	65	50	80	80	63
		60.5	16.8	77.5		21.3	30		60	3.2					
		72.5	20.1	69.8		23.8	30		58	3.9					
XA65/13	Ø139	60	16.7	25	2900	6.1	7.5	11kW	67	3	80	65	100	100	39
		100	27.8	22		7.68	11		78	3.5					
		120	33.3	19		8.38	11		74	4.5					
	Ø130	56	15.6	21.1	2900	5.03	5.5	7.5kW	64	3	80	65	100	100	39
		93.5	26	16		5.83	7.5		70	3.5					
		112.5	31.3	12.5		6.49	7.5		59	4.1					
	Ø120	52	14.4	18	2900	4.12	5.5	7.5kW	62.5	3	80	65	100	100	39
		86.5	24	13.7		4.88	5.5		66	3.3					
		104	28.9	10.6		5.43	7.5		57	3.75					
XA65/16	Ø174	60	16.7	39	2900	10.3	15	18.5kW	62	3.6	80	65	100	100	43
		100	27.8	35		12.7	15		75	4.2					
		120	33.3	32		13.9	18.5		75	5.2					
	Ø165	57	15.8	34.5	2900	8.92	11	15kW	60	3.6	80	65	100	100	43
		95	26.4	31		11	15		73	4.1					
		114	31.7	28		11.9	15		73	4.8					
	Ø155	53.5	14.9	30	2900	7.54	11	11kW	58	3.6	80	65	100	100	43
		89	24.7	27		9.22	11		71	3.95					
		107	29.7	24.5		10	11		71	4.5					

Performance Tables (2P)

Type	Outer dia. Of Impeller (mm)	Capacity		Head (m)	Speed (r/min)	Power (kW)		Required Motor	Efficiency (%)	NPSHR (m)	Dia of Pump		Dia of Taper Pipe (mm)		Pump Weight (kg)
		(m³/h)	(L/s)			Shaft Power	Motor Power				Inlet	Outlet	Inlet	Outlet	
XA65/20	Ø214	34	9.5	64	2900	14.5	15	30kW	41	3	80	65	125	100	55
		66	18.3	63		18	22		63	3					
		110	30.6	57		23.1	30		74	3.9					
		132	36.7	52		25.1	30		74.5	5.3					
	Ø205	63	17.5	57	2900	15.8	18.5	30kW	62	3	80	65	125	100	55
		105.5	29.3	51		20.1	30		73	3.75					
		126.5	35.1	47		22	30		73.5	4.85					
	Ø195	60	16.7	51.5	2900	13.8	18.5	30kW	61	3	80	65	125	100	55
		100	27.8	46.5		17.6	22		72	3.6					
120		33.3	42.5	19.2		30	72.5		4.4						
XA65/26	Ø264	72	20	97	2900	28.8	37	55kW	66	3.3	80	65	125	100	81
		120	33.3	89		39.8	45		73	4.5					
		144	40	83		44.6	55		73	5.4					
	Ø255	69.5	19.3	90	2900	26.2	37	45kW	65	3.25	80	65	125	100	81
		116	32.2	82.5		36.2	45		72	4.4					
		139	38.6	77		40.5	45		72	4.95					
	Ø245	67	18.6	83	2900	23.7	30	45kW	64	3.2	80	65	125	100	81
		111.5	31	76		32.5	37		71	4.25					
		133.5	37.1	71		36.6	45		70.5	4.95					
XA80/16	Ø174	100	27.8	39	2900	15.9	18.5	30kW	67	3.3	100	80	150	125	54
		162	45	35		19.3	22		80	4					
		195	54.2	31.5		21.2	30		79	5					
	Ø165	95	26.4	34.5	2900	13.7	18.5	22kW	65	3.3	100	80	150	125	54
		153.5	42.6	31		16.6	18.5		78	3.85					
		185	51.4	28		18.3	22		77	4.6					
	Ø155	89	24.7	30.5	2900	11.7	15	18.5kW	63	3.25	100	80	150	125	54
		144.5	40.1	27.2		14.1	15		76	3.7					
		174	48.3	24.5		15.5	18.5		75	4.3					
XA80/20	Ø214	115	31.9	61	2900	27.3	37	45kW	70	4	100	80	150	125	70
		190	52.8	55		35.6	37		80	5.1					
		225	62.5	50		38.8	45		79	6.2					
	Ø205	110	30.6	55.5	2900	24.1	30	37kW	69	4	100	80	150	125	70
		182	50.6	50		31.4	37		79	4.9					
		215.5	59.9	45.5		34.2	37		78	5.85					
	Ø195	105	29.2	50	2900	21	30	37kW	68	4	100	80	150	125	70
		173	48.1	45		24.1	30		78	4.7					
		205	56.9	41		29.7	37		77	5.5					
XA80/26	Ø264	115	31.9	96	2900	45.5	55	75kW	66	4	100	80	150	125	91
		190	52.8	86		57.8	75		77	5.4					
		225	62.5	79		64.5	75		75	6.5					
	Ø255	111	30.8	89	2900	41.4	55	75kW	65	3.95	100	80	150	125	91
		183.5	51	79.8		52.5	75		76	5.2					
		217.5	60.4	73		58.4	75		75	6.25					

Performance Tables (2P)

Type	Outer dia. Of Impeller (mm)	Capacity		Head (m)	Speed (r/min)	Power (kW)		Required Motor	Efficiency (%)	NPSHR (m)	Dia of Pump		Dia of Taper Pipe (mm)		Pump Weight (kg)
		(m³/h)	(L/s)			Shaft Power	Motor Power				Inlet	Outlet	Inlet	Outlet	
XA80/26	Ø245	106.5	29.6	82	2900	37.2	45	75kW	64	3.9	100	80	150	125	91
		176.5	49	73.5		47.1	55		75	5					
		209	58.1	67.5		52.6	75		73	6					
XA100/16	Ø174	151.2	42	33	2900	22.6	30	37kW	60	5	125	100	200	150	71
		252	70	27		25.7	37		72	5					
		302.4	84	22.4		26.3	37		70	5.5					
XA100/20	Ø214	180	50	59	2900	41.3	55	75kW	70	4	125	100	200	150	85
		295	79.2	52		50.1	55		80.5	5.3					
		340	94.4	44		54.7	75		74.5	6.3					
	Ø205	172.5	47.9	52.5	2900	35.8	45	55kW	69	3.95	125	100	200	150	85
		273	75.8	46		43	55		79.5	4.9					
		325.5	90.4	38		45.8	55		73.5	5.95					
	Ø195	164	45.6	47	2900	30.9	37	45kW	68	3.9	125	100	200	150	85
		260	72.2	40		36.1	45		78.5	4.8					
		310	86.1	32.5		37.9	45		72.5	5.6					
XA100/26	Ø264	190	52.8	97	2900	71.7	90	110kW	70	3.8	125	100	200	150	106
		295	81.9	85		87.5	100		78	5.2					
		350	97.2	75		97.9	110		73	6.5					
	Ø255	183.5	50.9	89	2900	64.5	75	110kW	69	3.75	125	100	200	150	106
		285	79.2	78		78.6	90		77	5					
		338	93.9	68.5		87.5	100		72	6.2					
	Ø245	177	49.2	82	2900	58.1	75	90kW	68	3.7	125	100	200	150	106
		274	76.1	71.5		70.2	90		76	4.8					
		325	90.3	63		78.5	90		71	5.9					
XA125/20	Ø214	238	66	54.5	2900	59.3	75	90kW	59.5	7	150	125	250	200	106
		360	100	49		66.3	90		72.5	7.2					
		475	132	40		70.9	90		73	7					
	Ø205	228	63.2	49.5	2900	53	75	75kW	58.5	7	150	125	250	200	106
		345	95.8	44		58	75		71.5	7.1					
		455	126	35.3		61	75		72	6.85					
	Ø195	216	60.1	44.8	2900	46	55	75kW	57.5	7	150	125	250	200	106
		328	91.1	39.5		50.5	55		70.5	6.95					
		433	120	31.5		52.8	75		71	6.6					

Performance Tables (4P)

Type	Outer dia. Of Impeller (mm)	Capacity		Head (m)	Speed (r/min)	Power (kW)		Required Motor	Efficiency (%)	NPSHR (m)	Dia of Pump		Dia of Taper Pipe (mm)		Pump Weight (kg)
		(m³/h)	(L/s)			Shaft Power	Motor Power				Inlet	Outlet	Inlet	Outlet	
XA32/13	Ø139	4.5	1.25	6	1450	0.16	0.55	0.55kW	47	1.8	50	32			33
		7.5	2.08	5.5		0.2	0.55		57	2					
		9	2.5	5		0.21	0.55		58	2.3					
XA32/16	Ø174	6	1.67	9.5	1450	0.35	0.55	0.55kW	44	1.8	50	32			42
		9	2.5	9		0.42	0.55		53	2					
		11	3.05	8.3		0.46	0.55		54	2.4					
XA32/20	Ø214	6	1.67	15	1450	0.65	0.75	1.1kW	38	1.8	50	32			52
		9	2.5	14		0.76	1.1		45	2					
		11	3.05	13.2		0.84	1.1		47	2.3					
XA32/26	Ø264	7	1.94	24.2	1450	1.53	2.2	3kW	30	1.8	50	32			86
		11	3.05	23		1.81	2.2		38	2					
		13	3.61	22		1.95	3		40	2.4					
XA40/13	Ø139	9	2.5	6.3	1450	0.3	0.55	0.55kW	52	1.8	65	40			36
		15	4.17	5.8		0.37	0.55		65	2					
		18	5	5.3		0.41	0.55		64	2.4					
XA40/16	Ø175	9	2.5	9.7	1450	0.5	0.55	1.1kW	48	1.8	65	40			47
		15	4.17	8.5		0.58	0.75		60	2					
		18	5	7.6		0.64	1.1		58	2.4					
XA40/20	Ø214	9	2.5	15.2	1450	0.79	1.1	1.5kW	47	1.8	65	40			60
		15	4.17	14		1.04	1.5		55	2					
		18	5	12.8		1.16	1.5		54	2.4					
XA40/26	Ø264	10	2.78	24	1450	1.77	2.2	3kW	37	1.8	65	40			88
		16	4.44	23		2.18	2.2		46	2					
		20	5.56	21.8		2.38	3		50	2.4					
XA40/32	Ø329	11	3	38	1450	3.5	5.5	5.5kW	32	3.1	65	40			143
		18	5	35		4.24	5.5		40.5	2.1					
		21.5	6	32		4.83	5.5		39	3.8					
	Ø315	10.5	2.92	34.5	1450	3.24	4	5.5kW	30.5	3.3	65	40			141
		17	4.72	32		3.85	5.5		38.5	2					
		20.5	5.7	29		4.32	5.5		37.5	2.9					
	Ø300	10	2.78	31	1450	2.91	4	5.5kW	29	3.6	65	40		65	139
		16.5	4.58	29		3.52	5.5		37	2					
		20	5.56	26		3.94	5.5		36	2.7					
XA50/13	Ø139	18	5	6.4	1450	0.51	0.75	1.1kW	61	2.2	65	50	80	65	46
		30	8.33	5.8		0.66	0.75		72	2.4					
		36	10	5.2		0.74	1.1		69	2.8					
XA50/16	Ø174	20	5.55	10.3	1450	0.93	1.1	1.5kW	60	2.3	65	50	80	65	55
		32	8.89	9.5		1.18	1.5		70	2.4					
		38	10.6	8.8		1.3	1.5		70	3					

Performance Tables (4P)

Type	Outer dia. Of Impeller (mm)	Capacity		Head (m)	Speed (r/min)	Power (kW)		Required Motor	Efficiency (%)	NPSHR (m)	Dia of Pump		Dia of Taper Pipe (mm)		Pump Weight (kg)
		(m³/h)	(L/s)			Shaft Power	Motor Power				Inlet	Outlet	Inlet	Outlet	
XA50/20	Ø214	18	5	15.4	1450	1.37	1.5	2.2kW	55	2.2	65	50	80	65	68
		30	8.33	13.5		1.7	2.2		65	2.3					
		36	10	11.6		1.86	2.2		61	2.9					
XA50/26	Ø264	20	5.55	25	1450	2.62	3	4kW	52	2.3	65	50	80	65	101
		32	8.89	22.5		3.27	4		60	2.4					
		38	10.6	19.8		3.63	4		56.6	3					
XA50/32	Ø329	24	6.67	36	1450	5	5.5	11kW	47	2	65	50	80	65	206
		40	11.1	34		6.38	7.5		58	2.5					
		48	13.3	32		7.09	11		59	3.2					
	Ø315	23	6.39	32.5	1450	4.52	5.5	7.5kW	45	2	65	50	80	65	160
		38.5	10.7	30.6		5.73	7.5		56	2.4					
		46	12.8	28.7		6.36	7.5		56.5	3					
	Ø300	22	6.11	29.4	1450	4.24	5.5	7.5kW	41.5	2	65	50	80	65	158
		36.5	10.1	27.7		5.1	7.5		54	2.3					
		44	12.2	26		5.66	7.5		55	2.8					
XA65/13	Ø139	30	8.33	6.2	1450	0.79	1.1	1.5kW	64	2.2	80	65	100	80	56
		50	13.9	5.4		0.98	1.1		75	2.4					
		60	16.7	4.7		1.05	1.5		73	2.8					
XA65/16	Ø174	30	8.33	9.8	1450	1.33	2.2	2.2kW	60	2	80	65	100	80	65
		50	13.9	8.8		1.62	2.2		74	2.2					
		60	16.7	7.9		1.75	2.2		73.5	2.5					
XA65/20	Ø214	35	9.72	15.3	1450	2.31	3	4kW	63	1.9	80	65	125	80	89
		55	15.3	14		2.87	4		73	2					
		66	18.3	13.1		3.2	4		73.5	2.3					
XA65/26	Ø264	36	10	24.5	1450	4	5.5	7.5kW	60	2	80	65	125	80	140
		60	16.7	22.5		5.25	7.5		70	2.3					
		72	20	20.6		5.77	7.5		70	3					
XA65/32	Ø329	40	11.1	37	1450	7.46	11	15kW	54	1.9	80	65	125	80	230
		65	18.1	34		9.56	11		63	2					
		78	21.7	31		10.6	15		62	2.5					
	Ø315	37	10.3	33.4	1450	6.73	7.5	11kW	50	1.9	80	65	125	80	216
		62	17.2	30.9		8.54	11		61	2					
		74.5	20.7	28		9.47	11		60	2.3					
	Ø300	34	9.44	30.5	1450	6	7.5	11kW	47	2	80	65	125	80	214
		56.5	15.7	28		7.3	11		59	2					
		68	18.9	25.8		8.1	11		59	2.1					
XA80/16	Ø174	50	13.9	9.9	1450	2.2	3	3kW	61	2.1	100	80	150	100	82
		80	22.2	9		2.55	3		77	2.5					
		96	26.7	8.3		2.75	3		79	3.2					

Performance Tables (4P)

Type	Outer dia. Of Impeller (mm)	Capacity		Head (m)	Speed (r/min)	Power (kW)		Required Motor	Efficiency (%)	NPSHR (m)	Dia of Pump		Dia of Taper Pipe (mm)		Pump Weight (kg)
		(m³/h)	(L/s)			Shaft Power	Motor Power				Inlet	Outlet	Inlet	Outlet	
XA80/20	Ø214	58	16.11	15.5	1450	3.77	5.5	7.5kW	65	2.1	100	80	150	100	70
		95	26.39	14		4.64	5.5		78	2.5					
		112	31.11	13		5.15	7.5		77	3.2					
XA80/26	Ø264	58	16.11	23.5	1450	5.8	7.5	11kW	64	2.1	100	80	150	100	91
		95	26.39	21.5		7.52	11		74	2.5					
		112	31.11	20		8.36	11		73	3.2					
XA80/32	Ø329	60	16.67	36	1450	9.65	15	18.5kW	61	1.9	100	80	125	100	120
		100	27.78	33		12.66	15		71	2					
		120	33.33	30		14	18.5		70	2.6					
XA80/32A	Ø315	57.5	15.97	32.4	1450	8.75	11	15kW	58	1.9	100	80	125	100	120
		95.5	26.53	29.7		11.2	15		69	2					
		114.5	31.81	27		12.38	15		68	2.3					
XA80/32B	Ø300	54.5	15.14	29.3	1450	7.77	11	15kW	56	1.9	100	80	125	100	120
		91	25.28	26.8		9.91	15		67	2					
		109	30.28	24.5		11.02	15		66	2.2					
XA80/40	Ø409	60	16.67	58	1450	18.96	22	30kW	50	2.2	100	80	125	100	161
		100	27.78	53		24.06	30		60	2.5					
		120	33.3	48		26.58	30		59	3.4					
XA80/40A	Ø395	58	16.11	53.7	1450	17.67	22	30kW	48	2.2	100	80	125	100	161
		96.5	26.81	48.9		22.16	30		58	2.5					
		116	32.22	44.4		24.60	30		57	3.4					
XA80/40B	Ø380	56	15.56	49.4	1450	16.38	22	30kW	46	2.2	100	80	125	100	161
		93	25.83	45		20.35	30		56	2.4					
		111.5	30.97	40.9		22.58	30		55	3					
XA80/40C	Ø365	54	15	46	1450	1.5	18.5	22kW	45	2.2	100	80	125	100	161
		90	25	42		18.7	22		55	2.3					
		108	30	38		20.7	22		54	2.8					
XA100/16	Ø174	75.6	21	8	1450	2.80	4	5.5kW	58.9	2.3	125	100	150	125	71
		126	35	6.8		3.32	5.5		70.2	2.5					
		151.2	42	5.7		3.45	5.5		68	3.3					
XA100/20	Ø214	90	25	15	1450	5.25	7.5	11kW	70	2.2	125	100	200	125	85
		142	39.44	13		6.36	7.5		79	2.5					
		170	47.22	11.5		6.91	11		77	3.4					
XA100/26	Ø264	95	26.39	24.5	1450	9.19	11	15kw	69	2.3	125	100	200	125	106
		148	41.11	22		11.37	15		78	2.6					
		175	48.61	20		12.54	15		76	3.5					
XA100/32	Ø329	81	22.5	37.5	1450	12.73	15	22kw	65	2	125	100	150	125	134
		135	37.5	34		16.7	22		75	2					
		162	45	30		18.38	22		72	3					
XA100/32A	Ø315	77.5	21.53	33.5	1450	11.5	15	22kw	61.5	2	125	100	150	125	134
		130	36.1	30.5		15.2	22		71	2					
		155	43.06	27		16.64	22		68.5	21.8					
XA100/32B	Ø300	73.5	20.42	30.5	1450	10.44	15	18.5kw	58.5	2	125	100	150	125	134
		123	34.17	27.5		13.55	18.5		68	2					
		147.5	41	24.5		14.92	18.5		66	2.1					

Performance Tables (4P)

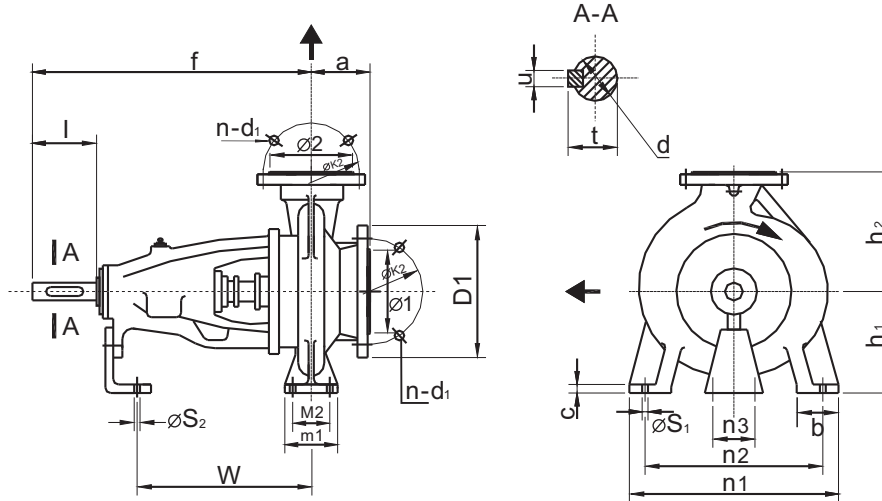
Type	Outer dia. Of Impeller (mm)	Capacity		Head (m)	Speed (r/min)	Power (kW)		Required Motor	Efficiency (%)	NPSHR (m)	Dia of Pump		Dia of Taper Pipe (mm)		Pump Weight (kg)
		(m³/h)	(L/s)			Shaft Power	Motor Power				Inlet	Outlet	Inlet	Outlet	
XA100/40	Ø409	90	25	57	1450	24.09	30	45kw	58	1.7	125	100	150	125	174
		150	41.67	52		31.24	37		68	2					
		180	50	48.5		34.96	45		68	2.7					
XA100/40A	Ø395	87	24.17	52.5	1450	22.22	30	37kw	56	1.7	125	100	150	125	174
		145	40.28	48.2		28.84	37		66	2					
		174	48.33	44.5		31.75	37		66.4	2.5					
XA100/40B	Ø380	84	23.33	48.5	1450	20.54	30	37kw	54	1.7	125	100	150	125	174
		139.5	38.75	44.5		26.42	37		64	1.9					
		167.5	46.53	41.2		29.37	37		64	2.4					
XA100/40C	Ø365	81	22.5	45	1450	19.1	22	37kw	52	1.7	125	100	150	125	174
		135	37.5	41		24.3	30		62	1.9					
		162	45	38		27	30		62	2.3					
XA125/20	Ø214	115	32	14.2	1450	7.3	11	11kw	61	2.6	150	125	200	150	106
		190	53	12.5		8.55	11		76	3.5					
		230	63.6	11		9.03	11		76	3.0					
XA125/26	Ø264	144	40	23.5	1450	13.17	18.5	22kw	70	2.3	150	125	200	150	115
		240	66.67	21		16.95	22		81	2.5					
		288	80	18.8		18.9	22		78	3.2					
XA125/26A	Ø255	139	38.61	21.3	1450	12.03	15	22kw	67	2.3	150	125	200	150	115
		232	64.44	19.2		15.35	22		79	2.5					
		278.5	77.39	17		16.96	22		76	3					
XA125/26B	Ø245	134	37.22	19.7	1450	11.23	15	18.5kw	64	2.3	150	125	200	150	115
		223	61.94	17.5		13.98	18.5		76	2.4					
		267.5	74.31	15.7		15.46	18.5		74	2.8					
XA125/32	Ø329	120	33.3	35.1	1450	17.36	22	30kw	66	2.1	150	125	200	150	163
		200	55.6	32		22.35	30		78	2					
		240	66.7	29.5		24.72	30		78	2.7					
XA125/32A	Ø315	115	31.94	31.5	1450	15.78	18.5	30kw	62.5	2.15	150	125	200	150	163
		191	53.06	29		20.11	30		75	1.95					
		229	63.61	26.5		22.2	3		74.5	2.4					
XA125/32B	Ø300	109	30.28	28.5	1450	14.1	18.5	22kw	60	2.2	150	125	200	150	163
		182	50.56	26		17.77	22		72.5	2					
		218.5	60.7	24		19.7	22		72.5	2.2					
XA125/40	Ø409	144	40	58	1450	34.46	45	75kw	66	2.2	150	125	200	150	181
		245	68.05	52		45.65	55		76	2.4					
		300	83.33	46		52.2	75		72	3.2					
XA125/40A	Ø395	139	38.61	53.5	1450	31.4	37	55kw	64.5	2.2	150	125	200	150	181
		236.5	65.7	48		41.78	55		74	2.4					
		289	80.42	42.5		47.87	55		70	3					
XA125/40B	Ø380	133.5	37.08	49.5	1450	28.56	37	55kw	63	2.2	150	125	200	150	181
		227.5	63.2	44		37.6	45		72.5	2.3					
		278.5	77.36	39		43.18	55		68.5	2.8					
XA125/40C	Ø365	132	36.67	44.8	1450	26	30	45kw	62	2.2	150	125	200	150	181
		220	61.1	40.7		34.3	45		71	2.3					
		264	73.3	36.3		39	45		67	2.8					

Performance Tables (4P)

Type	Outer dia. Of Impeller (mm)	Capacity		Head (m)	Speed (r/min)	Power (kW)		Required Motor	Efficiency (%)	NPSHR (m)	Dia of Pump		Dia of Taper Pipe (mm)		Pump Weight (kg)
		(m³/h)	(L/s)			Shaft Power	Motor Power				Inlet	Outlet	Inlet	Outlet	
XA150/20	Ø220	216	60	14.4	1450	12.10	15	18.5kw	70	3.0	200	150	250	200	156
		360	100	12.2		14.95	18.5		80	3.5					
		424.8	118	10.3		15.47	18.5		77	4.0					
XA150/26	Ø264	194	54	23	1450	17.14	22	30kw	71	2.7	200	150	250	200	148
		324	90	21		22.87	30		81	3.0					
		414	115	16.8		25.59	30		74	3.3					
XA150/32	Ø329	230	63.89	36	1450	30.89	37	55kw	73	2.8	200	150	250	200	170
		370	102.78	33		40.55	45		82	3.2					
		445	123.61	30		44.88	55		81	3.6					
XA150/32A	Ø315	220	61.11	32.5	1450	27.62	37	45kw	70.5	2.8	200	150	250	200	170
		354	98.33	30		36.38	45		79.5	3.1					
		426	118.33	27		39.9	45		78.5	3.5					
XA150/32B	Ø300	209.5	58.2	29.5	1450	24.40	30	37kw	69	2.8	200	150	250	200	170
		337.5	93.75	27		31.8	37		78	3					
		405.5	112.64	24.5		35.14	37		77	3.3					
XA150/40	Ø409	240	66.67	54	1450	51.15	75	90kw	69	2.8	200	150	250	200	209
		385	106.94	50		66.36	75		79	3.2					
		460	127.78	46		73.88	90		78	3.6					
XA150/40A	Ø395	232	64.44	50	1450	46.8	55	75kw	67.5	2.8	200	150	250	200	209
		372	103.33	46		65.5	75		77	3.2					
		444	123.33	42.5		67.62	75		76	3.6					
XA150/40B	Ø380	223	61.94	46	1450	42.3	55	75kw	66	2.8	200	150	250	200	209
		357.5	99.3	42		54.2	75		75.5	3.1					
		427.5	118.75	39		61	75		74.5	3.5					
XA150/40C	Ø365	204	56.67	43.5	1450	37.2	45	55kw	65	2.8	200	150	250	200	209
		340	94.4	48.3		47.3	55		75	3.0					
		408	113.3	34.9		52.4	55		74	3.4					
XA200/26	Ø264	360	100	20.5	1450	31.4	55	55kw	64	3.7	Ø250	Ø200	Ø300	Ø300	
		600	166.7	19		38.8			80	2.8					
		720	200	17		42.2			79	3.6					
XA200/32	Ø329	378	105	33	1450	46.5	55	75kw	73	2.7	250	200	300	300	251
		630	175	27		54.5	75		85	3.8					
		756	210	20		56.4	75		73	3.9					
XA200/32A	Ø315	360	100	30	1450	40.3	45	55kw	73	2.6	250	200	300	300	251
		600	167	25		50.5	55		81	3.7					
		720	200	19		51	55		73	3.8					
XA200/32B	Ø300	342	95	28.5	1450	37.4	45	55kw	71	2.5	250	200	300	300	251
		570	158	23		44.6	55		80	3.6					
		684	190	18.5		47.2	55		73	3.7					
XA200/32C	Ø285	324	90	25.5	1450	33.1	37	45kw	68	2.5	250	200	300	300	251
		540	150	21		40.1	45		77	3.6					
		648	180	16.6		41.3	45		71	3.7					

Performance Tables (4P)

Type	Outer dia. Of Impeller (mm)	Capacity		Head (m)	Speed (r/min)	Power (kW)		Required Motor	Efficiency (%)	NPSHR (m)	Dia of Pump		Dia of Taper Pipe (mm)		Pump Weight (kg)
		(m³/h)	(L/s)			Shaft Power	Motor Power				Inlet	Outlet	Inlet	Outlet	
XA200/40	Ø409	390	108	55.5	1450	76.5	90	132kw	77	3.0	250	200	300	300	295
		650	181	48.5		100	110		86	3.8					
		780	217	41.5		109	132		81	4.5					
XA200/40A	Ø395	378	105	51	1450	68.2	75	110kw	77	2.9	250	200	300	300	295
		630	175	44		88.8	110		85	3.8					
		756	210	37		96.4	110		79	4.4					
XA200/40B	Ø380	360	100	47	1450	60.6	75	90kw	76	2.9	250	200	300	300	295
		600	167	40.5		78.8	90		84	3.7					
		720	200	33.5		84.2	90		78	4.3					
XA200/40C	Ø365	342	95	43	1450	53.4	75	90kw	75	2.9	250	200	300	300	295
		570	158	36.5		68.3	90		83	3.7					
		684	190	30.5		73.8	90		77	4.2					
XA200/40D	Ø350	324	90	39	1450	46.5	55	75kw	74	2.9	250	200	300	300	295
		540	150	32.5		58.3	75		82	3.6					
		648	180	27		62.7	75		76	4.1					
XA200/40E	Ø335	306	85	34	1450	39.4	45	75kw	72	2.8	250	200	300	300	295
		510	142	29		49.7	55		81	3.6					
		612	170	23.5		53	75		74	4.0					
XA250/32	Ø329	504	140	32	1480	62.7	75	90kw	70	3.2	300	250	350	350	311
		840	233	29		77	90		86	3.4					
		1008	280	23		78.9	90		80	5.5					
XA250/32A	Ø315	480	133	29	1480	54.1	75	75kw	70	3.2	300	250	350	350	311
		800	222	26		66.6	75		85	3.2					
		960	267	21		68.7	75		80	4.8					
XA250/32B	Ø300	456	127	26.5	1480	47.8	55	75kw	69	3.3	300	250	350	350	311
		760	211	23.5		57.9	75		84	3.1					
		912	253	19		59.7	75		79	4.1					
XA250/32C	Ø285	432	120	24	1480	41	45	55kw	69	3.3	300	250	350	350	311
		720	200	21		49.6	55		83	3.1					
		864	240	17		50.6	55		79	3.7					
XA250/40	Ø409	540	150	52.5	1480	103	132	160kw	75	3.3	300	250	350	350	390
		900	250	48.5		135.1	160		88	4.8					
		1080	300	41		148.9	160		81	6.3					
XA250/40A	Ø395	522	145	49	1480	92.9	110	160kw	75	3.3	300	250	350	350	390
		870	242	44.5		119.8	132		88	4.8					
		1044	290	38.5		133.5	160		82	6.2					
XA250/40B	Ø380	504	140	45	1480	81.3	90	132kw	76	3.2	300	250	350	350	390
		840	233	40.5		105.3	132		88	4.7					
		1008	280	34.5		112.7	132		84	6.2					
XA250/40C	Ø365	480	133	41	1480	71.5	90	110kw	75	3.1	300	250	350	350	390
		800	222	37		91.6	110		88	4.6					
		960	267	31		96.5	110		84	6.0					
XA250/40D	Ø350	456	127	38	1480	62.9	75	110kw	75	3.0	300	250	350	350	390
		760	211	33.5		78.8	90		88	4.5					
		912	253	28.5		84.3	110		84	5.8					
XA250/40E	Ø335	432	120	35	1480	55.6	75	90kw	74	3.0	300	250	350	350	390
		720	200	31		70	90		87	4.4					
		864	240	27		76.5	90		83	5.5					



Flange Connecting Dimensions

$\phi 1, \phi 2$	32	40	50	65	80	100	125	150	200	250	300	350
$\phi K_1, \phi K_2$	100	110	125	145	160	180	210	240	295	355	410	470
D1, D2	140	150	165	185	200	220	250	285	340	405	460	520
n-d1	4- $\phi 18$	4- $\phi 18$	4- $\phi 18$	4- $\phi 18$	8- $\phi 18$	8- $\phi 18$	8- $\phi 18$	8- $\phi 22$	12- $\phi 22$	12- $\phi 26$	12- $\phi 26$	16- $\phi 26$

Overall and Mounting Dimensions Table(mm):

Type	Shaft Diameter	Pump Dimensions						Pump Foot Dimensions									Shaft End				
		$\phi 1$	$\phi 2$	a	f	h_1	h_2	b	c	m_1	m_2	n_1	n_2	n_3	ϕS_1	ϕS_2	w	d	l	t	u
XA3213	25	50	32	80	360	112	140	50	14	100	70	190	140	100	14	14	267	24	50	27	8
XA3216	25	50	32	80	360	132	160	50	14	100	70	240	190	100	14	14	267	24	50	27	8
XA3220	25	50	32	80	360	160	180	50	14	100	70	240	190	110	14	14	267	24	50	27	8
XA3226	25	50	32	100	360	180	225	65	14	125	95	320	250	110	14	14	267	24	50	27	8
XA4013	25	65	40	80	360	112	140	50	14	100	70	210	160	100	14	14	267	24	50	27	8
XA4016	25	65	40	80	360	132	160	50	14	100	70	240	190	100	14	14	267	24	50	27	8
XA4020	25	65	40	100	360	160	180	50	14	100	70	265	212	110	14	14	267	24	50	27	8
XA4026	25	65	40	100	360	180	225	65	14	125	95	320	250	110	14	14	267	24	50	27	8
XA4026G	35A	65	40	100	454	180	225	65	14	125	95	320	250	110	14	14	327	32	80	35	10
XA4032	35	65	40	125	470	200	225	65	14	125	95	345	280	110	14	14	342	32	80	35	10
XA4032G	45A	65	40	125	519	200	225	65	14	125	95	345	280	110	14	14	362	42	110	45	12
XA5013	25	65	50	100	360	132	160	50	14	100	70	240	190	100	14	14	267	24	50	27	8
XA5016	25	65	50	100	360	160	180	50	14	100	70	265	212	110	14	14	267	24	50	27	8
XA5020	25	65	50	100	360	160	200	50	14	100	70	265	212	110	14	14	267	24	50	27	8
XA5020G	35A	65	50	100	455	160	200	50	14	100	70	265	212	110	14	14	327	32	80	35	10
XA5026	25	65	50	100	360	180	225	65	14	125	95	320	250	110	14	14	267	24	50	27	8
XA5026G	35A	65	50	100	454	180	225	65	14	125	95	320	250	110	14	14	327	32	80	35	10
XA5032	35	65	50	125	470	225	280	65	16	125	95	345	280	110	14	14	342	32	80	35	10
XA5032G	45A	65	50	125	523.5	225	280	65	14	125	95	345	280	110	14	14	364	42	110	45	12

Overall and Mounting Dimensions Table(mm):

Type	Shaft Diameter	Pump Dimensions						Pump Foot Dimensions										Shaft End			
		$\phi 1$	$\phi 2$	a	f	h_1	h_2	b	c	m_1	m_2	n_1	n_2	n_3	ϕS_1	ϕS_2	w	d	l	t	u
XA6513	25	80	65	100	360	160	180	65	14	125	95	280	212	110	14	14	267	24	50	27	8
XA6516	25	80	65	100	360	160	200	65	14	125	95	280	212	110	14	14	267	24	50	27	8
XA6520	25	80	65	100	360	180	225	65	14	125	95	320	250	110	14	14	267	24	50	27	8
XA6520G	35A	80	65	100	454	180	225	65	14	125	95	320	250	110	14	14	328	32	80	35	10
XA6532	35	80	65	125	470	225	280	80	16	160	120	400	315	110	17.5	14	342	32	80	35	10
XA6532G	45A	80	65	125	520	225	280	80	16	160	120	400	315	110	17.5	14	363	42	110	45	12
XA8016	25	100	80	125	360	180	225	65	14	125	95	320	250	110	14	14	267	24	50	27	8
XA8016G	35A	100	80	125	454	180	225	65	14	125	95	320	250	110	14	14	326	32	80	35	10
XA8020	35	100	80	125	470	180	250	65	14	125	95	345	280	110	14	14	342	32	80	35	10
XA8026	35	100	80	125	470	200	280	80	16	160	120	400	315	110	17.5	14	342	32	80	35	10
XA8032	35	100	80	125	470	250	315	80	16	160	120	400	315	110	17.5	14	342	32	80	35	10
XA8032G	45A	100	80	125	521	250	315	80	16	160	120	400	315	110	17.5	14	363	42	110	45	12
XA8040	45	100	80	125	532	280	355	85	16	160	120	440	340	110	17.5	14	368	42	110	45	12
XA10016	35	125	100	125	470	200	250	80	16	160	120	360	280	110	17.5	14	342	32	80	35	10
XA10020	35	125	100	125	470	200	280	80	16	160	120	360	280	110	17.5	14	342	32	80	35	10
XA10026	35	125	100	140	470	225	280	80	16	160	120	400	315	110	17.5	14	342	32	80	35	10
XA10026G	45A	125	100	140	520	225	280	80	16	160	120	400	315	110	18	14	363	42	110	45	12
XA10032	35	125	100	140	470	250	315	80	16	160	120	400	315	110	17.5	14	342	32	80	35	10
XA10040	45	125	100	140	530	280	355	100	18	200	150	500	400	110	23	14	370	42	110	45	12
XA12520	35	150	125	140	470	250	315	80	16	160	120	400	315	110	17.5	14	342	32	80	35	10
XA12526	35	150	125	140	470	250	355	80	16	160	120	400	315	110	17.5	14	342	32	80	35	10
XA12532	45	150	125	140	530	280	355	100	18	200	150	500	400	110	23	14	370	42	110	45	12
XA12540	45	150	125	140	530	315	400	100	18	200	150	500	400	110	23	14	370	42	110	45	12
XA15020	35G	200	150	160	495	280	400	100	20	200	150	550	450	110	23	14	367	32	80	35	10
XA15026	45	200	150	160	530	250	355	100	18	200	150	450	350	110	23	14	370	42	110	45	12
XA15032	45	200	150	160	530	280	400	100	18	200	150	550	450	110	23	14	370	42	110	45	12
XA15040	45	200	150	160	530	315	450	100	18	200	150	550	450	110	23	14	370	42	110	45	12
XA20026	45D	250	200	180	553	315	450	100	20	200	150	550	450	110	28	14	393	42	110	45	12
XA20032	55	250	200	180	670	315	480	120	20	220	170	600	480	110	28	14	504	48	110	51	14
XA20040	55	250	200	180	670	335	480	120	20	220	170	600	480	110	28	14	504	48	110	51	14
XA25032	55	300	250	220	691	355	520	150	22	250	200	660	510	110	28	14	525	48	110	51	14
XA25040	55	300	250	220	682	400	560	150	22	250	200	660	510	110	28	14	516	48	110	51	14



Control Panel

Control panel series for all kinds of applications



Fire pump control panel



water supply/booter pump control panel



Submersible pump control panel



Inverter pump control panel (standard type)



Inverter pump control panel (double-layer door)



Inverter pump control panel (double-layer door with touch screen)



Multiple inverter systems inside layout

The panels can be designed for all kinds of EVERGUSH water pumps

Main fire pump sets & jockey pumps	Water supply pumps Pressure differential booster systems	Submersible sewage/sump pumps	Inverter booster systems
			



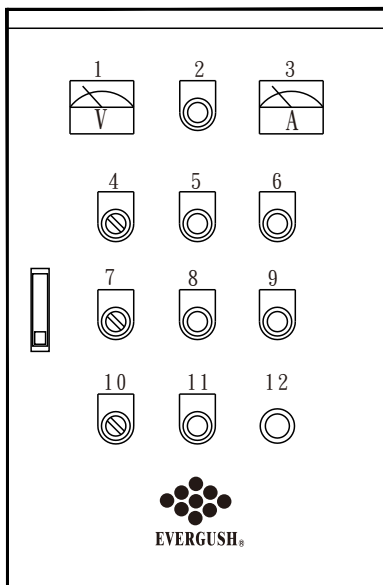
Product Features

Adopting Chinese National Standard(CNS) of fire fighting pump codes: CNS8917、CNS8918、CNS8919.

- Automatic sprinkler system operation for fire protection. (When pipeline pressure is lower than preset pressure, the pump will start. According to fire protection law, after the pump automatically switches on, an operator must manually stops it.)
- Force start operation with manual test function. (running and stop button)
- Provides with fuse breaker and electrical circuit.
- On the front of control panel, it will show voltmeter、ammeter、running、overload、stop and malfunction indicators.
- Malfunction alert output.
- Build-in remote control for manual ON-OFF switch and remote monitor for operation、stop、overload and water shortage signal.
- Control panel casing adopts with powder coatings.

Control panel instructions

● Control panel layout



● Instruction

No.	Name	No.	Name
1	Voltmeter	7	ON Alarm OFF
2	Power(white)	8	Stop(green)
3	Ammeter	9	Water Shortage (orange)
4	Man.,Stop,Auto.	10	Man.,Stop,Auto.
5	Running(red)	11	Aux. running(red)
6	Overload(orange)	12	Buzzer

Remarks: 1. Panel can be classified as single layer and double layer doors.

2. Item 10 and 11 will only install for sprinkler systems.

■ Dimensions

● Indoor type control panel

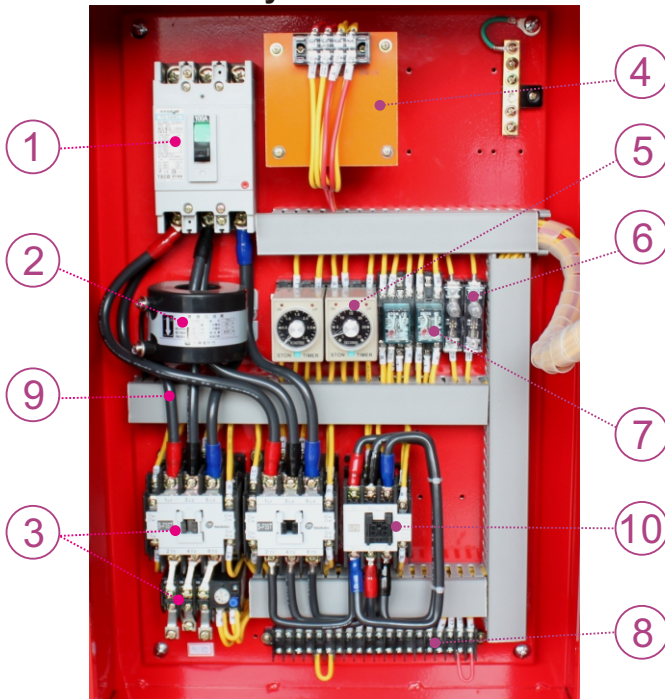
Unit: mm

Classification		Horsepower (HP)	W	H	D	Material	Custom Material
220V	Direct Start	5~10	365	480	190	Iron	Custom made for customers
	Y- Δ	15~25	405	640	220	Iron	
		30~60	505	800	240	Iron	
		75~100	605	1050	270	Iron	
		125~150	700	1150	300	Iron	
380V	Direct Start	5~10	365	480	190	Iron	
	Y- Δ	15~40	405	640	220	Iron	
		50~100	505	800	240	Iron	
		125~150	605	1050	270	Iron	

Remarks: 1. Appearance \ material \ dimension \ coating...etc. All can be custom made by customer requirements.
2. Above 150HP control panel will be custom made.

■ Main parts

● Standard fire pump control panel: Inside layout



● Above graph is Y- Δ start method (For reference only)

● Components table

NO.	Name	NO.	Name
1	No fuse breaker	6	Fuse
2	Current transformer	7	Aux. relay
3	Magnetic switch	8	Terminal block
4	Transformer	9	Flame-resistant wire
5	Timer relay	10	Magnetic contactor

Remarks:

- Standard casing: Single layer indoor type casing, and its material is steel made powder coating (SS41). We can custom made stainless steel casing(SUS304) or double-layer or outdoor type casing.
- We can add earth leakage circuit breaker or soft start/stop device depend on customer special requirements. We can also change flame-resistant wire into DN non-toxic flame-resistant wire.
- Components table and inside layout usually vary with different horsepowers and control methods.



Standard inverter control panel
(Duplex operation)



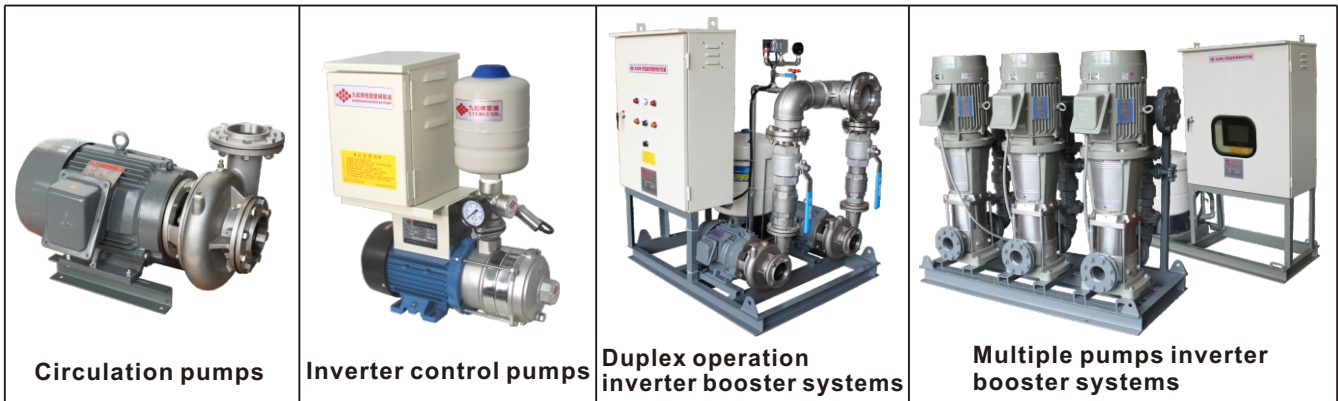
HMI inverter control panel
(Duplex operation)



Accessories adopt Delta inverter series
(we can change to other brands depend
on customer demands)

Applications

- Water supply for apartments, households, residential buildings and villas.
- Water supply for public facilities, parks, motels, hotels, restaurants, schools, hairdressing salons.
- Water supply for factories, IC manufacturers, industrial precision equipments.
- Water supply for car wash, tap water pressurize station, reverse osmosis and construction zone.
- It can be used for single or multiple pumps operation.



Circulation pumps

Inverter control pumps

Duplex operation
inverter booster systems

Multiple pumps inverter
booster systems

Product Features

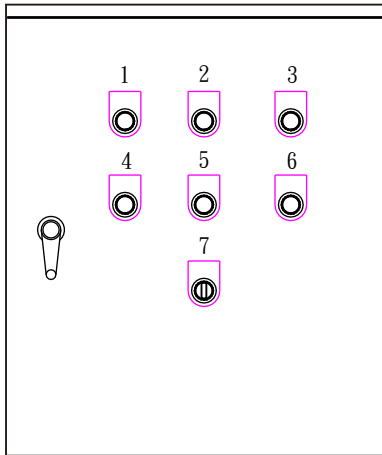
- We can custom made control panel with different schemes for different environments.
- It saves electricity and energy. The motor will change rotational speed depend on the water usage by the users.
- Customers can change pump performance by adjusting different pressure, capacity and temperature with PLC function.
- Customers can add PID algorithm function which will improve system operation stability.
- We can provide monitor port which can organize operation and monitor interface according to customer demands.
- We provide RS485 communication interface. Output signal 0~10V or 4~30mA. Continuous variable controller.

Specifications

- Casing material: SS400, stainless steel.
- Single layer and double layer types can be chosen by customer demands.
- Inverter conforms to UL and CE certificates.
- IP protection class: Ip54



Panel Instructions



NO	Name
1	No. 1 running(Red)
2	Power(White)
3	No. 2 running(Red)
4	No. 1 failure(Yellow)
5	No.1 Auto. Stop Man.
6	No. 2 failure
7	No. 2 Auto. Stop Man.



Single layer door inverter control panel(duplex operation)

Double layer door inverter control panel(duplex operation)

Dimensions

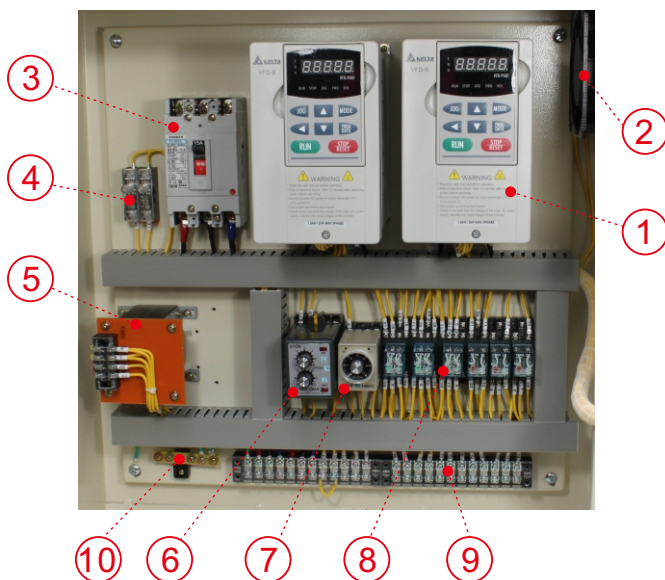
Unit: mm

Classification		(HP)	W	H	D	Material
220V/ 380V	Single inverter	1 ~ 3	450	750	250	iron
		5 ~ 15	550	950	300	iron
	Double inverter	1 ~ 3	550	600	250	iron
		5 ~ 15	600	800	280	iron

Remarks: Appearance、material、dimension、coating...etc. All can be custom made by customer requirements.

Double inverter alternating operation control panel

● Inside layout



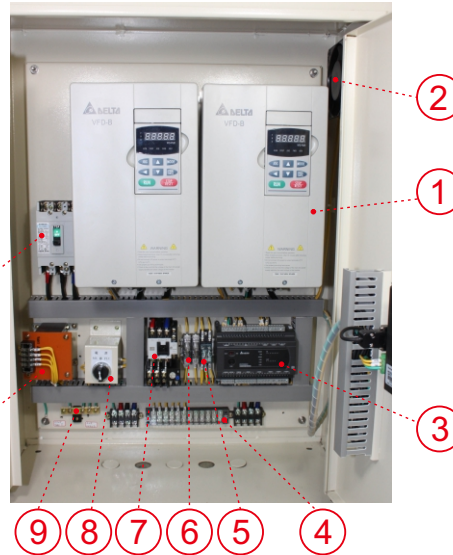
● Components table

NO	Name	NO	Name
1	Inverter	6	Double timer relay
2	Fan	7	Timer relay
3	No fuse breaker	8	Aux. relay
4	Fuse	9	Terminal block
5	Transformer	10	Grounding conductor

Remarks

- We can add earth leakage circuit breaker, PID controller, PLC programmable logic controller depend on customer demands.
- Components table and inside layout usually vary with different horsepowers and control methods.
- We can change inside layout and component brand depend on customer demands.

● HMI double inverter control panel --Inside layout ● Components table



NO	Name
1	Fan
2	Inverter
3	PLC
4	Terminal block
5	Aux. relay
6	Fuse
7	Magnetic switch
8	Switch
9	Grounding conductor
10	Transformer
11	No fuse breaker
12	HMI

Remarks

- Components table and inside layout usually vary with different horsepowers and control methods.
- We can change inside layout and component brand depend on customer demands.

Accessories

● Earth leakage circuit breaker

1. Protection for electric leakage/ overload/short circuit.
2. It adopts SHIHLIN brand or other approved equivalent brands.
3. It adopts CNS5422 specifications.
4. Electric leakage can be shown by mechanical button.
5. Rated voltage common type. Its range is from 110~440V(Below480V).



● PID controller

(Process/Temperature Controller)

1. It has fast sampling function(It will sample once per 200msec). It has anti-electro magnetic interference ability. It can control inverter driven motor to change pump system pressure.
2. Fuzzy artificial intelligence+PID computer control.
3. High precision: Input 18-BIT analog to digital and output 15-BIT digital to analog.
4. Automatic algorithm adjustment, system abnormal alarm and HEATER disconnected alarm.



● Programmable Logic Controller, PLC

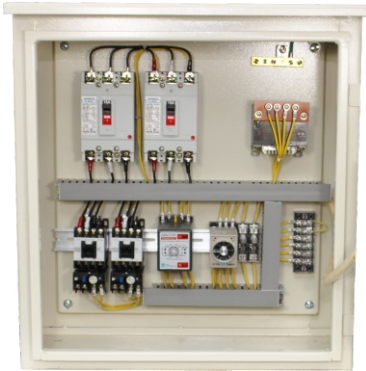
(Programmable Logic Controller,PLC)

PLC is an electrical computing control system. Its framework has the characteristics of simplify save program and easy expansion design. It provides sequence/position control and timing input/output control commands which are widely used in automation control industry.

- It has build in 3 communication ports: 1 for RS-232 and 2 for RS-485. Each one can operate independently.
- Max. expansion up to 10 digit: 256 digit input+16 digit output or 256 digit output+ 16 digit input.
- DVP-EX2 mainframe has build in 12-bit analog resolution of 4AD/2DA. It also provides 14-bit analog resolution for users.
- It has build in 8 digit input(2 digit 100khz, 6 digit 10khz) which supports U/D、U/D Dir and A/B counter mode.
- Newly add more special commands: closed loop、benchmarking、blanking in、instant speed and (S-Curve) acceleration & deceleration functions.
- Emerging industry applications: Aim for solar power energy industry specially design for its own commands and functions.
- Inverter easy commands: Upright、reverse、stop、run、. . . etc.
- Password protection functions: Sub-program password、subscriber identifier、attempt frequency limitation.
- It can perform high efficiency commands.

(Adopts Delta PLC)





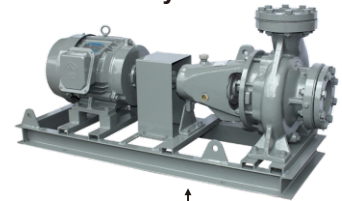
Water supply boosting pumps control panel



Submersible sewage pumps control panel



Water supply automatic booster systems



Water supply pumps



Water supply pumps soft start/stop control panel (It can be custom made by customer requirements)



Submersible pumps control panel



Submersible sump pumps



Submersible bore pumps



Soft start controller

Applications

1. Submersible or ground type water supply systems or submersible sewage drainage systems.
2. Water supply for schools, public facilities and military camps.
3. Single control, multiple control, alternating or parallel operation control.

Features

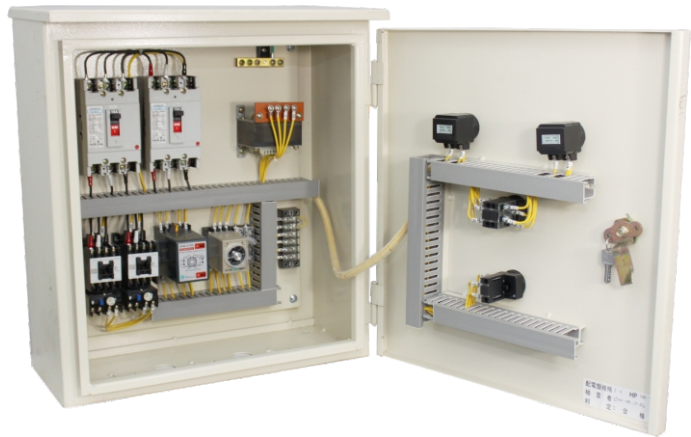
1. We can custom made control panel with different schemes for different environment.
2. We can add soft start controller to reduce water hammer effect and operation noise depend on customer demands.
3. Customers can choose graphite electrode, float switch or level switch with water supply control unit.
4. Customers can adjust pump operation by different pressure, capacity and temperature with PLC function.
5. We can provide monitor port which can organize operation and monitor interface according to customer demands.

Specifications

1. Casing material: Steel(SS400). (We can custom made stainless steel material depend on customer demands.)
2. Single layer door is our standard type. We can custom made double layer door depend on customer demands.
3. IP protection class: IP54(We will charge for certification fee)

Control Panel

Water supply boosting systems control panel series



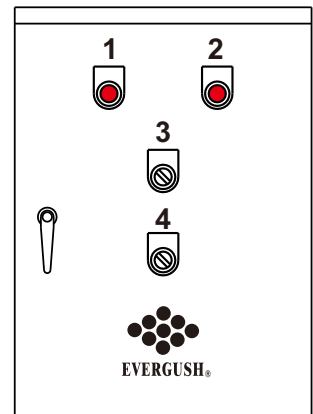
- Pressure differential boosting control alternating or parallel operation
- Automatic simplex operation function
- You can choose auto or manual operation at your convenient.
- It has fuse protection control circuit.
- It can force single pump to start operation.
- It will add timer replay which reduce frequent on/off situation.

Panel instructions and dimensions

● Instructions

No	Name	No	Name
1	No 1 running(red)	3	Auto Stop Manual
2	No 2 running(red)	4	No 1 Stop No 2

Layout



● Outdoor type dimensions

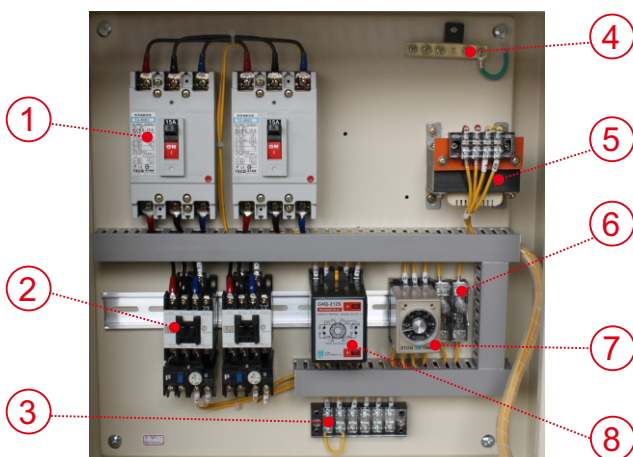
Unit:MM

Classification		(HP)	W	H	D	Material
Alternating operation	220V	1~10	450	500	200	iron
	380V	1~20				
	220V	15~20	500	550	200	iron

Remarks: 1. Appearance 、 material 、 dimension 、 coating...etc. All can be custom made by customer requirements. 2. Above 20hp, the control panel will be custom made.

Main Components

● Inside layout



● Components table

NO	Name	NO	Name
1	No fuse breaker	5	Transformer
2	Magnetic switch	6	Fuse
3	Terminal block	7	Timer relay
4	Grounding conductor	8	Alternating relay

Remarks: ● Components layout usually varies with different horsepowers.
● We could change components to designated brands by customers.



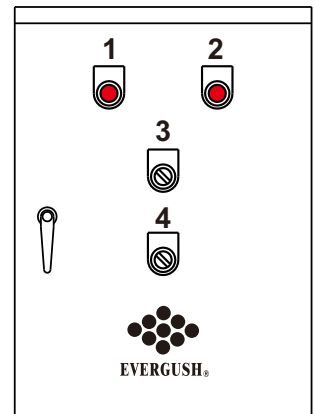
- Automatic alternating or parallel operation
- Automatic simplex operation function
- You can choose auto or manual operation at your convenient.
- It has fuse protection control circuit.
- It can force single pump to start operation.
- Level controller will prevent motor to burn up from dry running.

Panel instructions and dimensions

● Instructions

No	Name	No	Name
1	No 1 running	3	Auto Stop Manual
2	No 2 running	4	No. 1 Stop No. 2

Layout



● Outdoor type dimensions

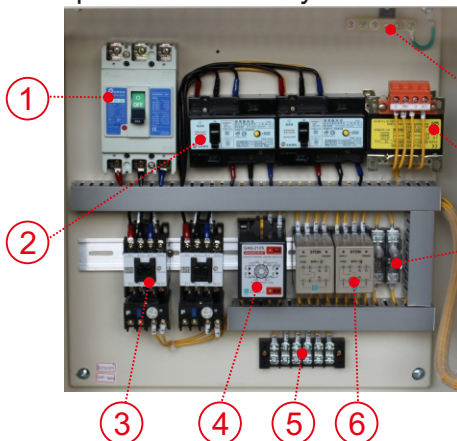
Unit: MM

Classification	(HP)	W	H	D	Material	
Alternating operation	220V	1~10	450	500	200	iron
	380V	1~20				
	220V	15~20	500	550	200	iron

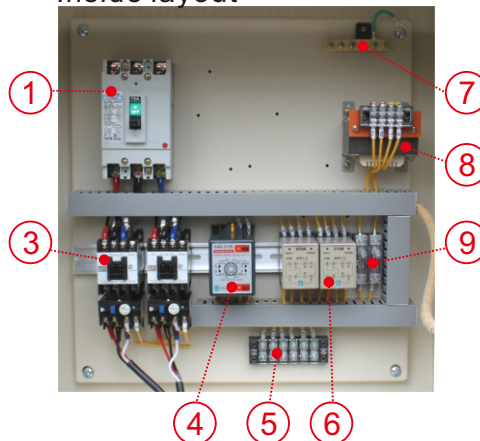
Remarks: 1. Appearance、material、dimension、coating...etc. All can be custom made by customer requirements. 2. Above 20hp, the control panel will be custom made.

Main Components

● Submersible type control panel--Inside layout



● Ground type control panel--Inside layout

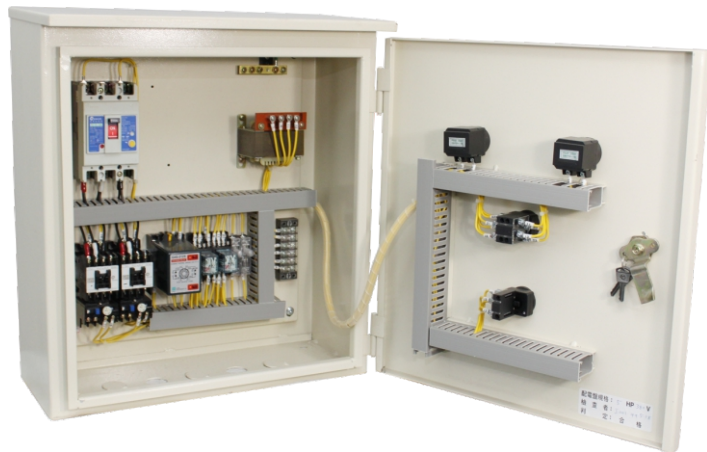


● Components table

NO	Name
1	No fuse breaker
2	Earth leakage circuit breaker
3	Magnetic switch
4	Alternating relay
5	Terminal block
6	Level controller
7	Grounding conductor
8	Transformer
9	Fuse

Remarks: For safety concern, we will add earth leakage circuit breaker for submersible pumps control panel

Remarks: 1.Components layout usually varies with different horsepowers. 2.We could change components to designated brands by customers.



- Automatic submersible pumps alternating or parallel operation
- You can choose auto or manual operation at your convenient.
- It has fuse protection control circuit.
- It can force single pump to start operation.

Panel instructions and dimensions

● Instructions

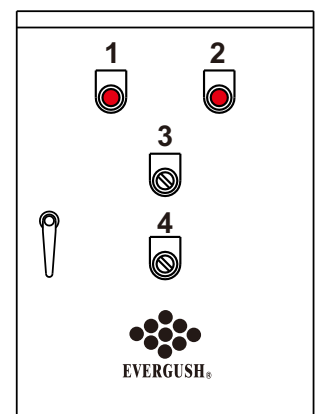
No	Name	No	Name
1	No 1 running(red)	3	Auto Stop Manual
2	No 2 running(red)	4	No. 1 Stop No. 2

● Outdoor type dimensions

Unit: MM

Classification	(HP)	W	H	D	Material	
Submersible alternating operation	220V	1~10	450	500	200	iron
	380V	1~20				
	220V	15~20	500	550	200	iron

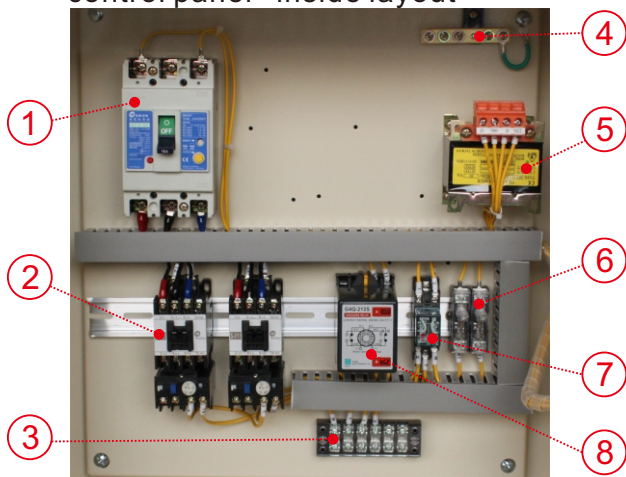
Layout



Remarks: 1. Appearance、material、dimension、coating...etc. All can be custom made by customer requirements. 2. Above 20hp, the control panel will be custom made.

Main Components

● Submersible sewage pump control panel--inside layout



● Components table

NO	Name	NO	Name
1	Earth leakage circuit breaker	5	Transformer
2	Magnetic switch	6	Fuse
3	Terminal block	7	Timer relay
4	Grounding conductor	8	Alternating relay

Remarks: ● Components layout usually varies with different horsepowers.
● We could change components to designated brands by customers.