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JARDIBEST

Commercial Pumps






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 ISO 9001

Taizhou Beisite Machinery Technology Co., Ltd.

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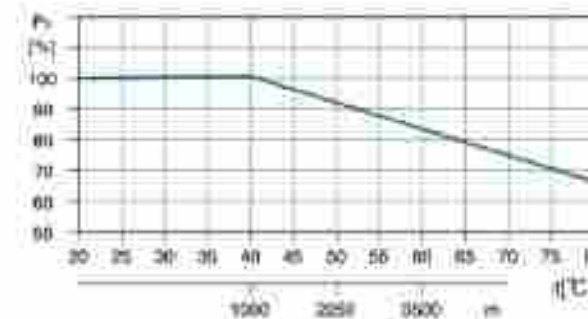
EVS

EVR

Ambient Temperature

Max. ambient temperature: +40°C. Ambient temperature above +40°C or installation at altitude of more than 1000 meters above sea level require the use of an oversize motor. Because of low air density and poor cooling effects, the motor output power P₂ will be decreased. See the picture.

In such cases, it may be necessary to use a motor with a higher output power rating.



For example when the pump is installed at altitude of more than 1000 meters above sea level, P₂ will be decreased to 89%. When the ambient temperature is 70°C, P₂ will be decreased to 70%.

Application

- Suitable for transferring liquids of low viscosity, non-inflammable and non-explosive, not containing solid particles or fibers
- Water supply & drainage for high rise buildings, filtration and transfer at waterworks, pressure boosting in main pipe
- Washing and cleaning systems, boiler feeding, cooling water circulation, water treatment systems, auxiliary system, support equipment
- Ultra filtration systems, reverse-osmosis systems, distillation systems, separators, swimming pools
- Agricultural irrigation: sprinkler irrigation, drip-feed irrigation
- Food & beverage industry
- Fire-fighting system

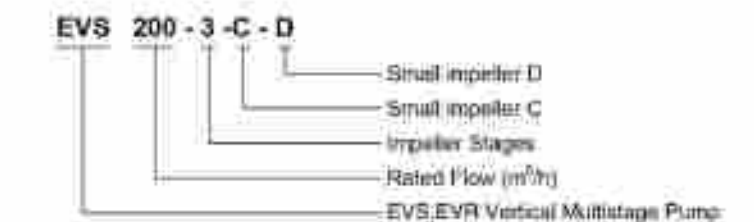
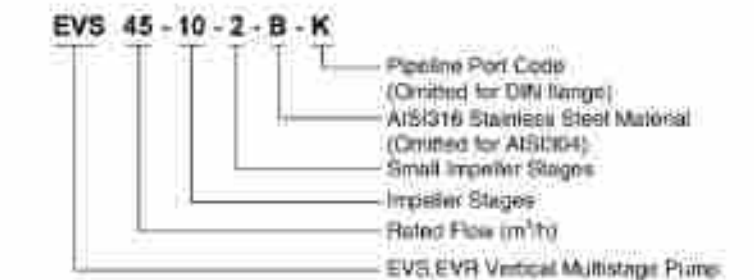
Operating Conditions

- Low viscosity, non-inflammable and non-explosive liquids not containing solid particles or fibers. The liquids must not chemically attack the pump materials. When pumping liquids with a density or viscosity is higher than that of water, a motor with a higher output power rating shall be used
- Liquid temperature: -20°C - +120°C
- Flow ranges: 0.7-240 m³/h
- Liquid pH value: 4 - 10
- Max. ambient temperature: +40°C
- Max. operation pressure: 31 bar
- Altitude: up to 1000m

Motor

- IE 2 motor (IE 3 motor optional)
- Totally enclosed & fan-cooled
- Protection class: IP55
- Standard voltage: 50Hz 1x220V/3 x380V

Identification Codes



EVS: Stainless steel wetted parts
 EVR: Cast iron base & pump cover

Identification Codes of flange structure

- A: Oval flange; K: Clamp connector
- G: Threaded connector

Minimum Inlet Pressure-Npsh

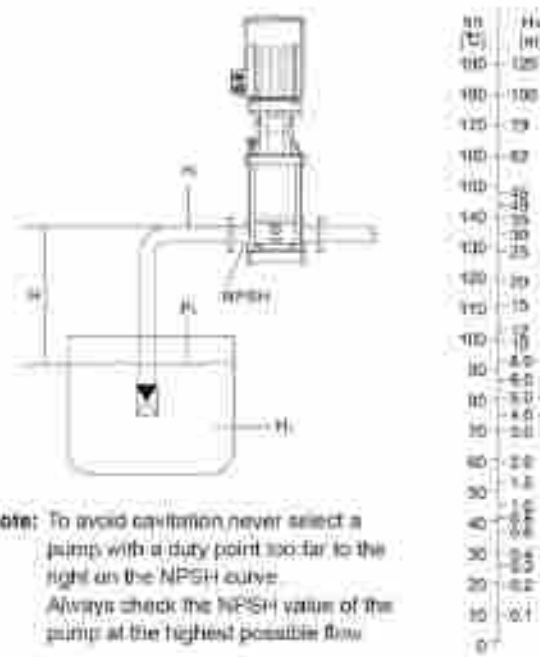
Calculation of the inlet pressure "H" is recommended in these situations:

- The liquid temperature is high
- The flow is significantly higher than the rated flow
- Water is drawn from depths
- Water is drawn through long pipes
- Inlet conditions are poor

To avoid cavitation, make sure that there is a minimum pressure on the suction side of the pump. The maximum suction lift "H" in meters head can be calculated as follows:

H	$= P_s + 10.2 \cdot NPSH - H_f - H_v - H_s$
P_s	= Barometric pressure in bar. (Barometric pressure can be set to 1 bar. In closed systems, P_s indicates the system pressure in bar.)
$NPSH$	= Net Positive Suction Head in meters head. (To be read from the NPSH curve at the highest flow the pump will be delivering.)
H_f	= Friction loss in suction pipe in meters head. (At the highest flow the pump will be delivering.)
H_v	= Vapor pressure in meters head. (To be read from the vapor pressure scale. "H _v " depends on the liquid temperature "m".)
H_s	= Safety margin=minimum 0.5 meters head.

If the "H" calculated is positive, the pump can operate at a suction lift of maximum "H" meters head.
If the "H" calculated is negative, an inlet pressure of minimum "H" meters head is required.



Note: To avoid cavitation never select a pump with a duty point too far to the right on the NPSH curve. Always check the NPSH value of the pump at the highest possible flow.

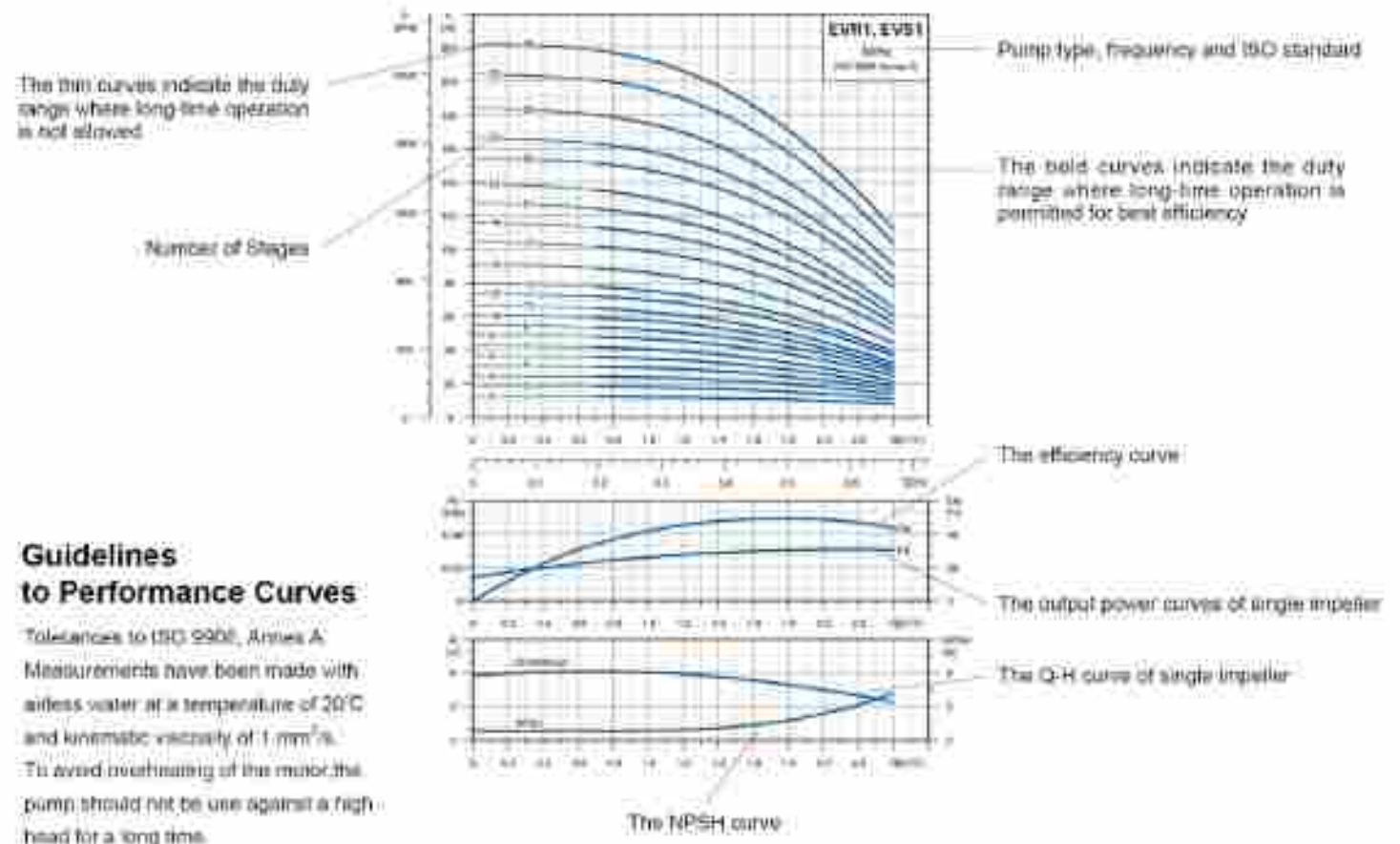
Maximum Inlet Pressure

The following table shows the maximum permissible inlet pressure. However, the current inlet pressure + the pressure against a closed valve must always be lower than the Max. permissible operating pressure. If the maximum permissible operating pressure is exceeded, the bearing in the motor may be damaged and the life of the shaft seal reduced.

Model	Max. Inlet Pressure (bar)
EVMS1 1-2 - 1-25	12
EVMS1 2-2	6
EVMS1 3-2 - 3-10	10
EVMS1 3-15 - 3-25	15
EVMS1 3-2 - 3-25	10
EVMS1 3-31 - 3-36	15
EVMS1 4-2	6
EVMS1 4-2 - 4-11	10
EVMS1 4-12 - 4-22	15
EVMS1 5-2 - 5-16	10
EVMS1 5-18 - 5-28	15
EVMS1 10-1 - 10-6	6
EVMS1 10-7 - 10-20	10
EVMS1 15-1 - 15-3	6
EVMS1 15-4 - 15-17	10
EVMS1 20-1 - 20-3	6
EVMS1 20-4 - 20-17	10
EVMS1 30-1-1 - 30-4	6
EVMS1 30-5-2 - 30-10	10
EVMS1 30-11 - 30-14	15
EVMS1 45-1-1 - 45-2	6
EVMS1 45-3-2 - 45-6	10
EVMS1 45-6-2 - 45-13-2	15
EVMS1 64-1-1 - 64-2-2	4
EVMS1 64-2-1 - 64-4-2	15
EVMS1 80-4-1 - 80-8-1	15
EVMS1 90-1-1 - 90-1	6
EVMS1 90-2-2 - 90-3-2	12
EVMS1 90-3 - 90-6	15
EVMS1 120-1 - 120-2-1	10
EVMS1 120-2 - 120-5-1	15
EVMS1 150-5 - 150-7	20
EVMS1 150-1-1 - 150-2-2	12
EVMS1 150-2-1 - 150-4-1	15
EVMS1 150-4 - 150-6	20
EVMS1 200-1-0	10
EVMS1 200-1-0 - 200-2-20	15
EVMS1 200-2-0 - 200-4	20

Model	EVMS Max. Operation pressure (bar)		EV5 Max. Operation pressure (bar)
	Out/Inlet	DB/Inlet	
EVMS1 1	16	20	20
EVMS1 2	16	25	25
EVMS1 3	16	25	25
EVMS1 4	16	25	25
EVMS1 5	16	25	25
EVMS10		25	20
EVMS16		25	20
EVMS20		25	20
EVMS30-1-1 - 30-2	15	10	10
EVMS30-3-2 - 30-7	20	20	20
EVMS45-1-1 - 45-2	15	10	10
EVMS45-3-2 - 45-11	30	20	20
EVMS45-12-2 - 45-13-2	20	20	20
EVMS64-1-1 - 64-2	15	10	10
EVMS90-2-2 - 90-4-1	30	20	20
EVMS90-1-1 - 90-4	15	10	10
EVMS90-5-2 - 90-6	30	20	20
EVMS120-1 - 120-7	25	20	20
EVMS150-1-1 - 150-5	25	20	20
EVMS200-1-0 - 200-4	30	20	20

How to Read the Curve Charts

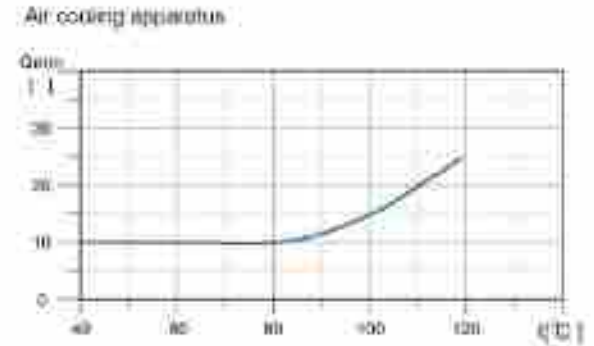


Guidelines to Performance Curves

Tolerances to ISO 9906, Annex A. Measurements have been made with airless water at a temperature of 20°C and kinematic viscosity of 1 mm²/s. To avoid overheating of the motor, the pump should not be used against a high head for a long time.

Maximum Flow Rate

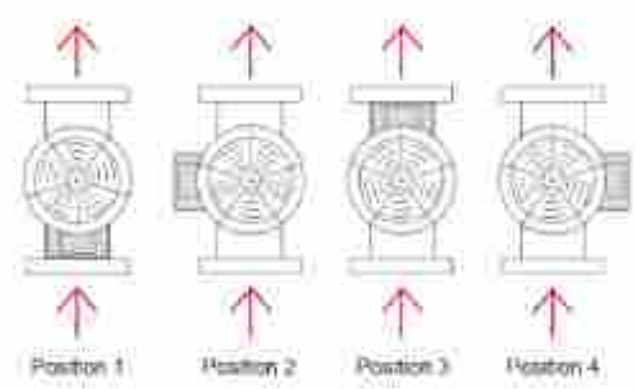
Due to the risk of overheating, the pump should not be used at a flow below the minimum flow rate. The curve below shows the minimum flow rate as a percentage of the nominal flow rate in relation to the liquid temperature.



Note: The outlet valve must be opened when the pump is in operation.

Terminal Box Positions

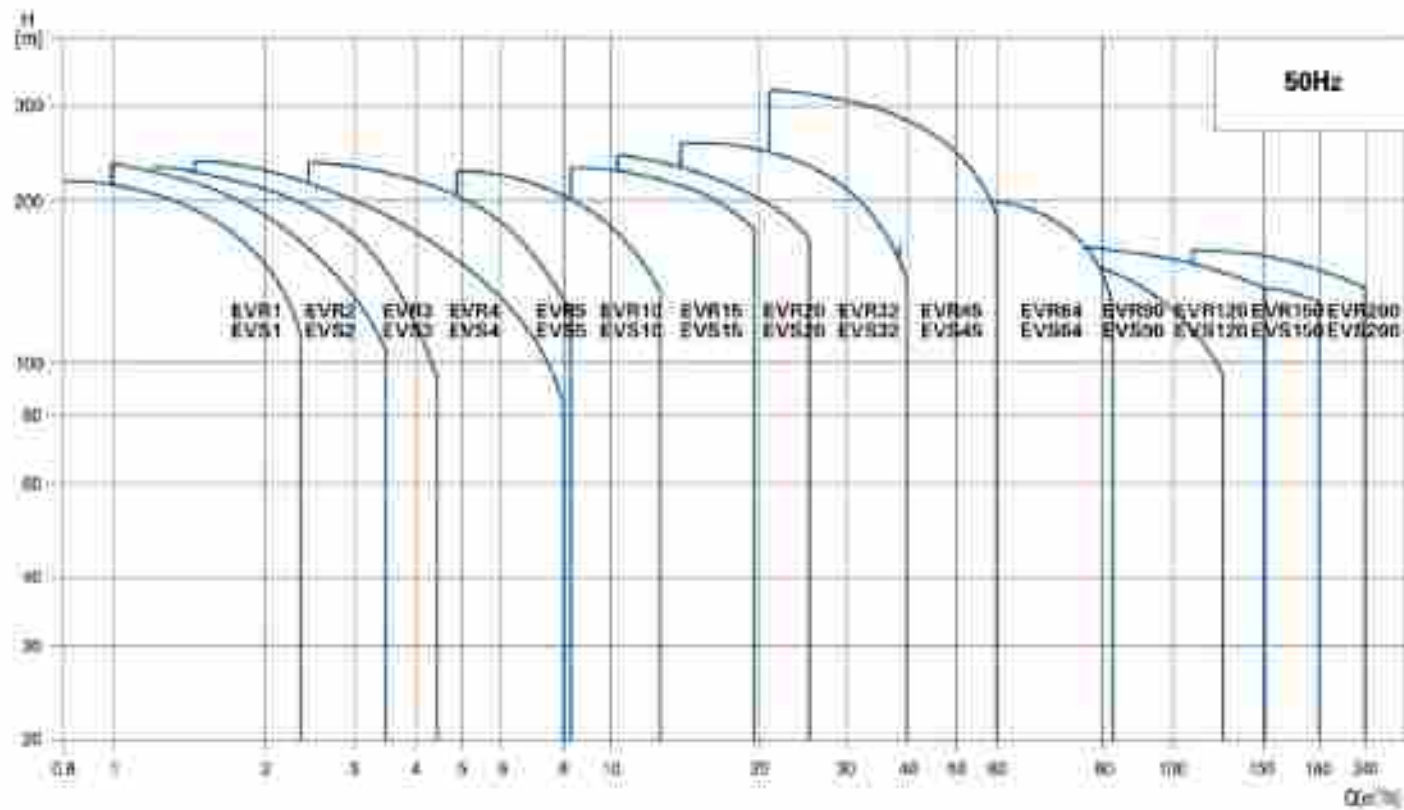
(Note: set to position 1 before delivery)



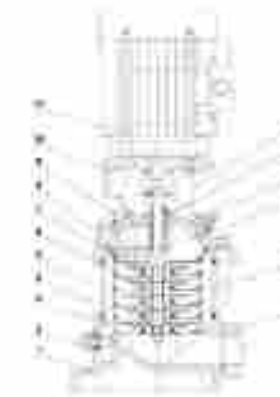
Product Range

Model	EVR01	EVR02	EVR03	EVR04	EVR05	EVR10	EVR15	EVR20	EVR30	EVR40	EVR50	EVR60	EVR80	EVR100	EVR120	EVR150	EVR200
Rated flow (m³/h)	1	2	3	4	5	10	15	20	30	40	50	60	80	100	120	150	200
Flow range (m³/h)	0.5-2.4	1.0-3.5	1.5-4.5	1.5-4	2.0-4.5	4-10	6-13	10-20	15-40	20-50	25-60	30-80	40-120	60-150	80-180	100-240	
Max pressure (bar)	22	20	24	21	24	22	22	28	28	28	22	22	28	28	28	28	28
Motor power (kW)	0.37-2.2	0.37-6	0.37-2	0.37-4	0.37-4	1.1-7.2	1.1-10	1.1-10.2	1.5-20	5-40	4-45	5.5-40	11-25	11-70	11-70	10.5-110	
Temperature range (°C)	-20°C ~ +120°C (Note: Both the Max permissible pressure and liquid temperature range refer to the pump capacity.)																
Max pump efficiency (%)	45	48	55	55	58	65	70	70	75	78	80	81	84	84	85	85	79
Flange connection (DN)	-																
DN Range	DN25	DN25	DN25	DN25	DN25	DN40	DN40	DN40	DN40	DN40	DN40	DN40	DN40	DN40	DN40	DN40	DN40
Flange connection (NPS)	-																
DN Range	DN25	DN25	DN25	DN25	DN25	DN40	DN40	DN40	DN40	DN40	DN40	DN40	DN40	DN40	DN40	DN40	DN40
Clamp connector	Ø42	Ø42	Ø42	Ø42	Ø42	-	-	-	-	-	-	-	-	-	-	-	-
Treated materials	R316	R316	R316	R316	R316	-	-	-	-	-	-	-	-	-	-	-	-

Scope of Performance-EVR,EVS

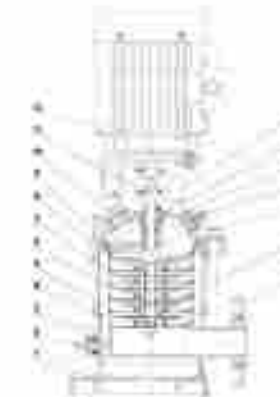


Cross Section



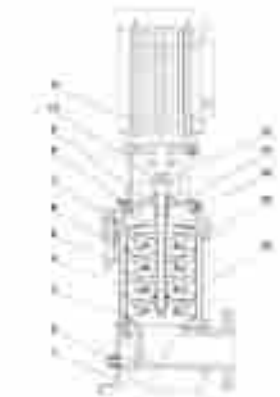
MODEL: EVR1 (2.3.3.6)

Part	Material
1 Base	HT200
2 Drainage ring assembly	A30304
3 Impeller	A30304
4 Diffuser with bearing	A30304
5 Medium diffuser	A30304
6 Impeller	A30304
7 First vane	A30304
8 Motor base	HT200
9 Flange ring	A30304
10 Coating	See latest grade catalog
11 Motor	-
12 Guiding pipe	A30304
13 Cartridge seal	-
14 Nut ring assembly	A30304
15 Pump shaft	A30316
16 Pump barrel	A30304
17 Dial flange	HT200



MODEL: EVR1 (2.3.4.3)

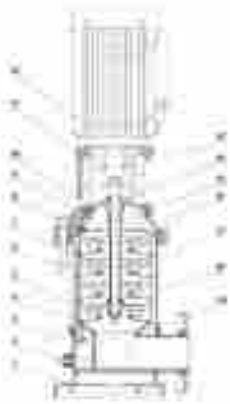
Part	Material	Optional Material
1 Base plate	HT200	-
2 Drainage ring assembly	A30304	A30316
3 Chain	202RH	202RH
4 Impeller	A30304	A30316
5 Diffuser with bearing	A30304	A30316
6 Medium diffuser	A30304	A30316
7 Impeller	A30304	A30316
8 First vane	A30304	A30316
9 Motor base	HT200	-
10 Flange ring	A30304	A30316
11 Coating	See latest grade catalog	-
12 Motor	-	-
13 Guiding pipe	A30304	-
14 Cartridge seal	-	-
15 Pump shaft	202RH	202RH
16 Nut ring assembly	A30304	A30316
17 Pump shaft	A30316	A30316
18 Pump barrel	A30304	A30316
19 Flange	202H	-



MODEL: EVR10 (10.5)

Part	Material
1 Base	HT200
2 Drainage ring assembly	A30304
3 Impeller	A30304
4 Diffuser with bearing	A30304
5 Medium diffuser	A30304
6 Impeller	A30304
7 First vane	A30304
8 Flange ring	A30304
9 Motor base	HT200
10 Coating	See latest grade catalog
11 Motor	-
12 Guiding pipe	A30304
13 Cartridge seal	-
14 Nut ring assembly	A30304
15 Pump shaft	A30316
16 Pump barrel	A30304

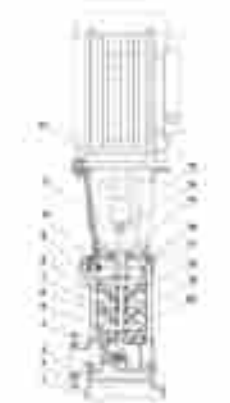
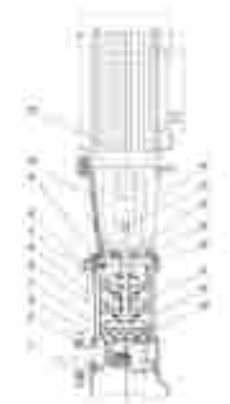
Cross Section



MODEL: 8V811 (11.8)		
Part	Material	Optional Material
1	Base plate	HT200
2	Discharge plug assembly	A40004
3	Flange	ZD20
4	Primary diffuser	A40004
5	Diffuser with bearing	A40004
6	Medium diffuser	A40004
7	Impeller	A40004
8	Flow guide	A40004
9	Filling plug	A40004
10	Motor base	HT200
11	Coupling	HT200/20CrMnTi
12	Motor	
13	Suction pipe	A40004
14	Cartridge seal	
15	Wet plug assembly	A40004
16	Pump cover	ZD20
17	Tension plate	A40004
18	Pump base	A40004
19	Pump shaft	2Cr12

MODEL: 8V812 (11.4 3/4)		
Part	Material	
1	Base plate	HT200
2	Flange	ZD20
3	Primary diffuser	A40004
4	Medium diffuser	A40004
5	Diffuser with bearing	A40004
6	Impeller	A40004
7	Flow guide assembly	A40004
8	Flow diffuser	A40004
9	Wet plug assembly	A40004
10	Motor base	HT200
11	Motor	
12	Suction pipe	A40004
13	Coupling	GT400
14	Cartridge seal	
15	HT200 Pump head	HT200
16	Filling plug	A40004
17	Tension plate	A40004
18	Pump base	A40004
19	Pump shaft	A40004

MODEL: 8V813 (11.4 3/4)		
Part	Material	Optional Material
1	Base plate	HT200
2	Flange	ZD20
3	Flange	ZD20
4	Primary diffuser	A40004
5	Medium diffuser	A40004
6	Diffuser with bearing	A40004
7	Impeller	A40004
8	Flow guide assembly	A40004
9	Flow diffuser	A40004
10	Wet plug assembly	A40004
11	Motor base	HT200
12	Motor	
13	Suction pipe	A40004
14	Coupling	GT400
15	Cartridge seal	
16	Pump head	ZD20
17	Filling plug	A40004
18	Tension plate	A40004
19	Pump base	A40004
20	Pump shaft	A40004

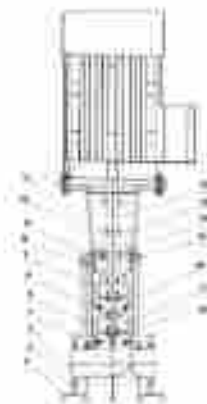


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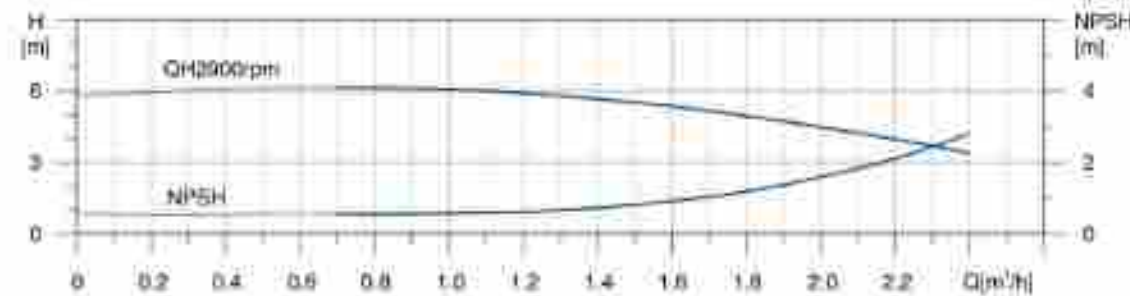
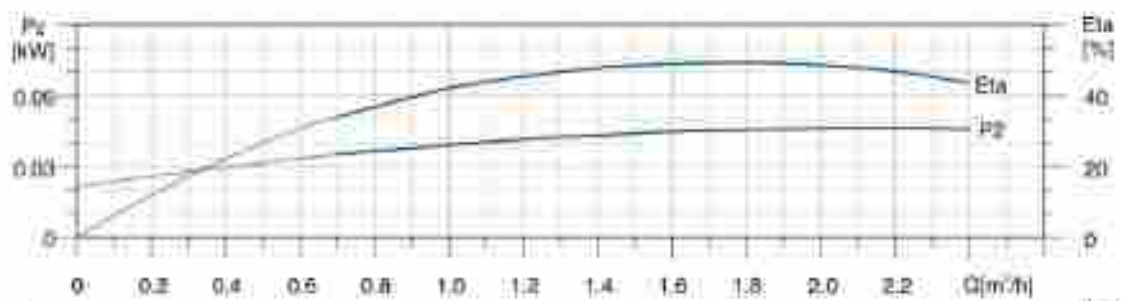
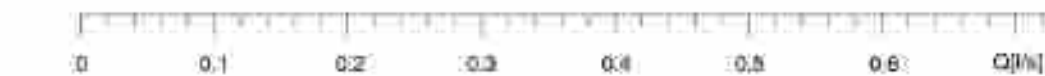
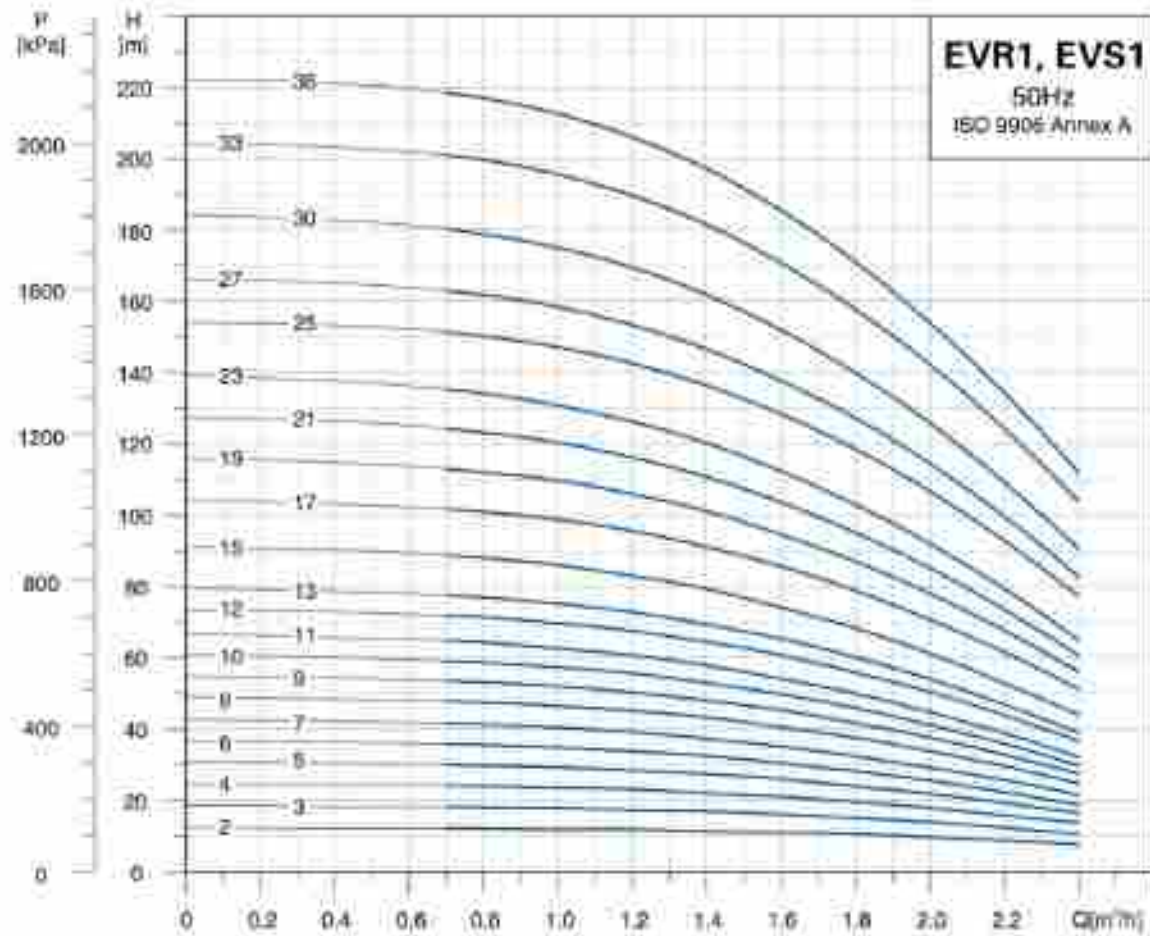


MODEL: 8V814 (11.8 200)		
Part	Material	
1	Base plate	HT200
2	Flange	ZD20
3	Base	HT200
4	Primary diffuser	A40004
5	Medium diffuser	A40004
6	Diffuser with bearing	A40004
7	Impeller	A40004
8	Flow diffuser	A40004
9	Pump head	HT200
10	Motor base	HT200
11	Motor	
12	Coupling	GT400
13	Suction pipe	A40004
14	Cartridge seal	
15	Filling plug	A40004
16	Tension plate	A40004
17	Pump base	A40004
18	Pump shaft	A40004

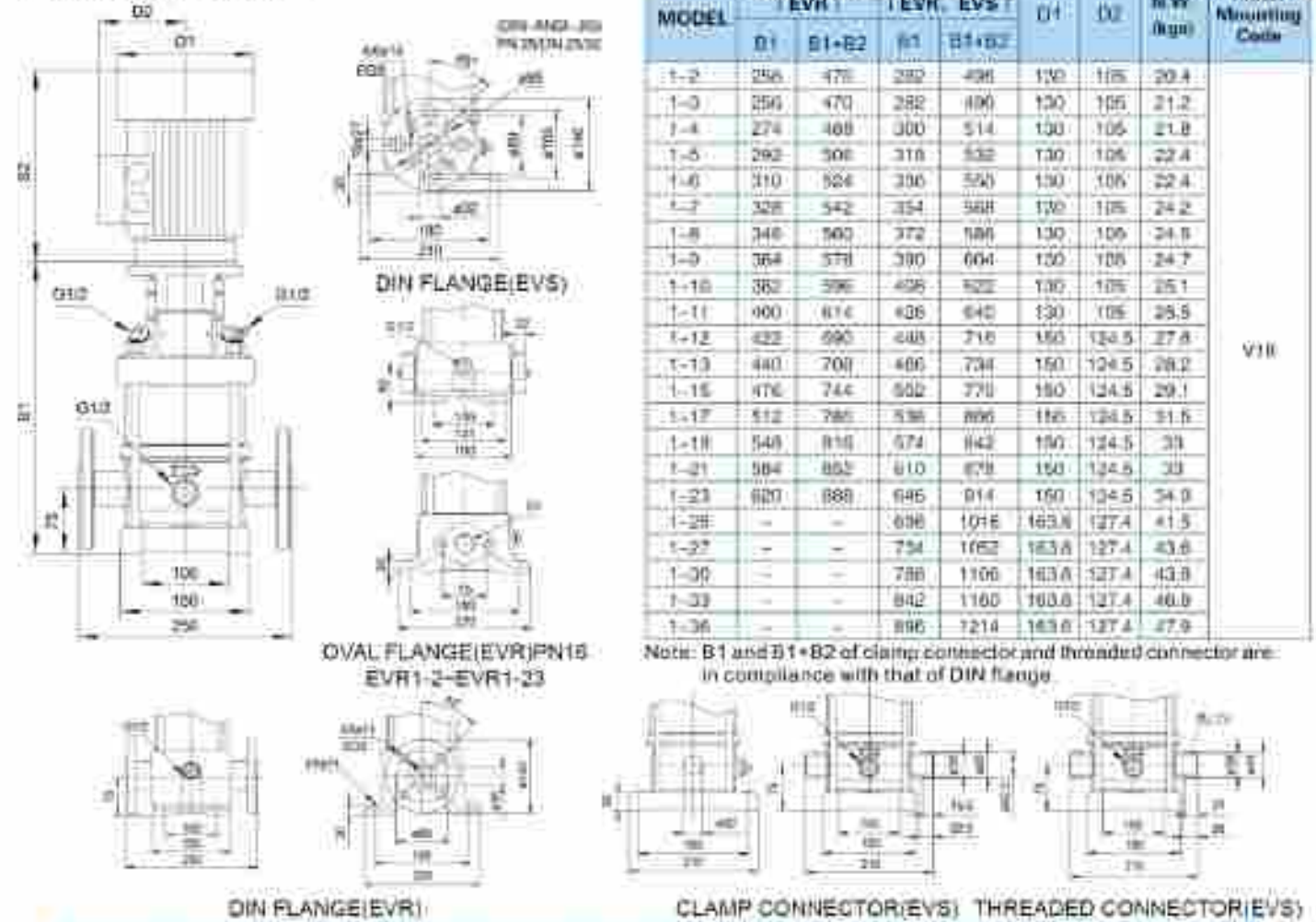
MODEL: 8V815 (11.8 200)		
Part	Material	Optional Material
1	Base plate	HT200
2	Flange	ZD20
3	Flange	ZD20
4	Primary diffuser	A40004
5	Medium diffuser	A40004
6	Diffuser with bearing	A40004
7	Impeller	A40004
8	Flow diffuser	A40004
9	Pump head	ZD20
10	Motor base	HT200
11	Motor	
12	Coupling	GT400
13	Suction pipe	A40004
14	Cartridge seal	
15	Filling plug	A40004
16	Tension plate	A40004
17	Pump base	A40004
18	Pump shaft	A40004



Hydraulic Performance Curves



Dimension Drawing

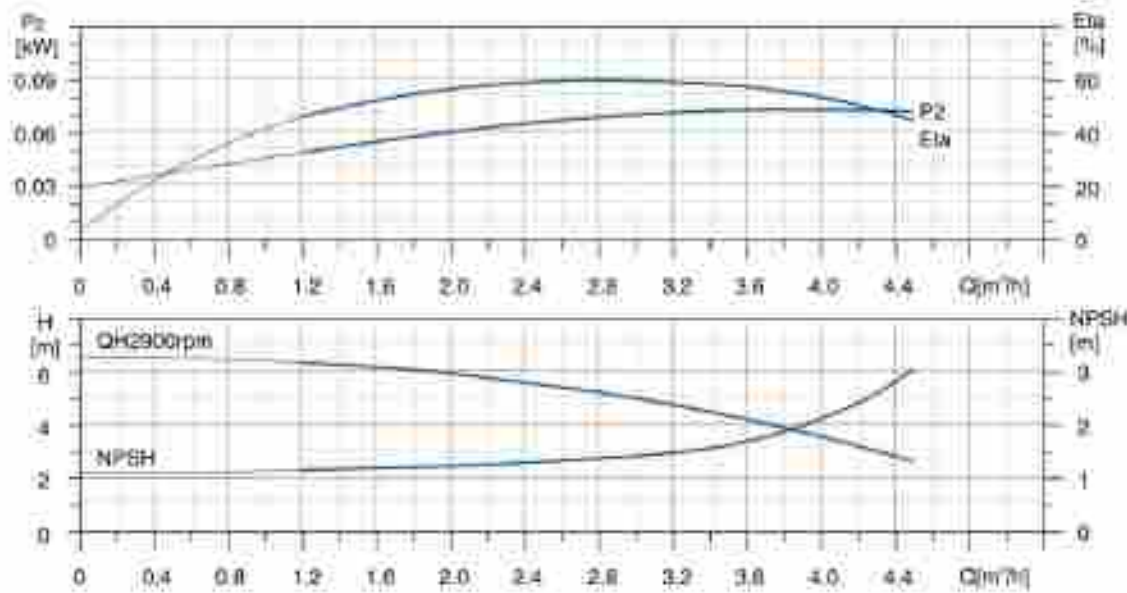
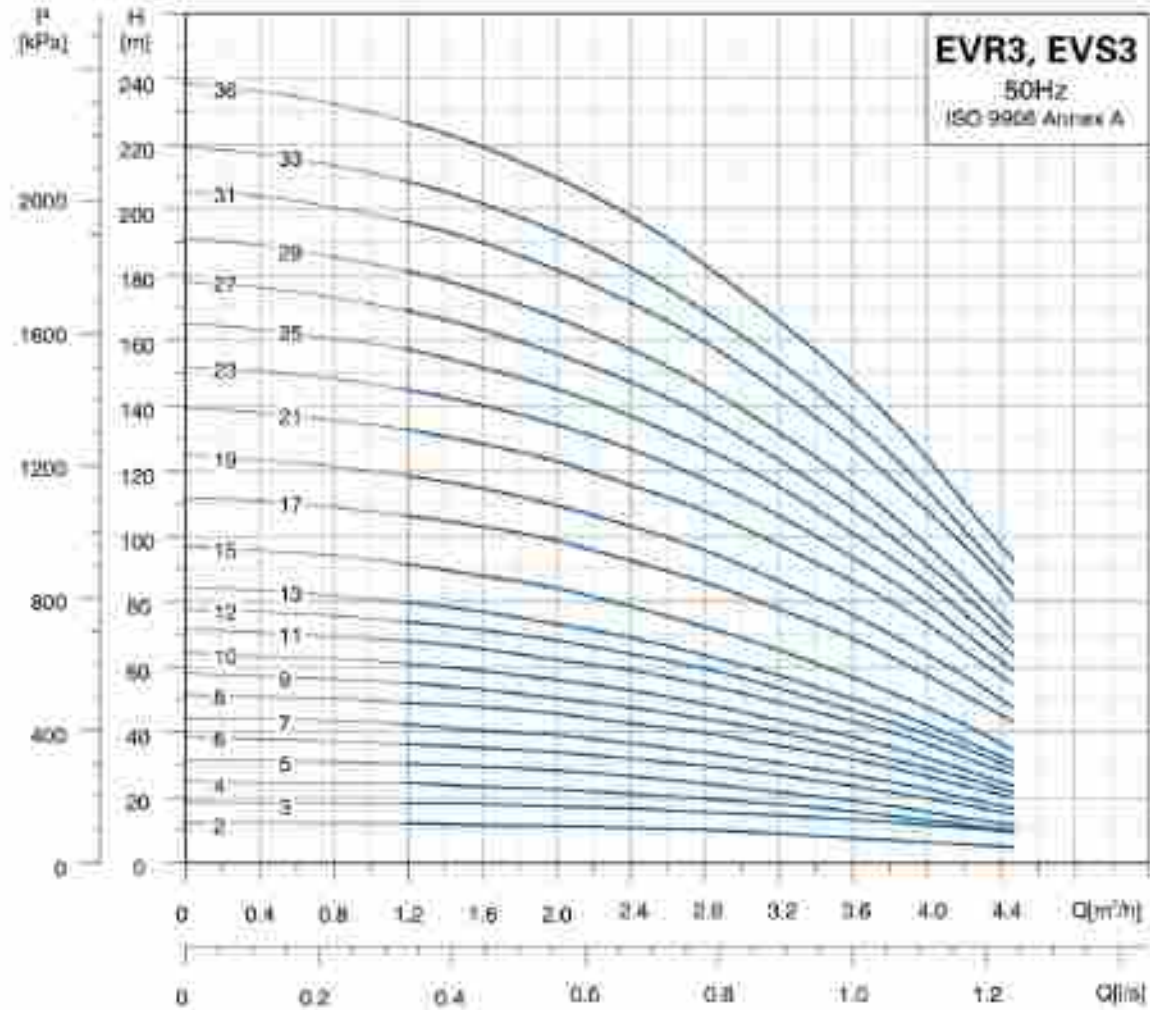


MODEL	OVAL FLANGE (EVR)		DIN FLANGE (EVS)		D1	D2	N.W (kg)	Motor Mounting Code
	D1	D1+B2	B1	B1+B2				
1-2	256	470	282	498	130	105	20.4	V18
1-3	256	470	282	498	130	105	21.2	
1-4	274	488	300	514	130	105	21.8	
1-5	292	506	318	532	130	105	22.4	
1-6	310	524	336	550	130	105	22.4	
1-7	328	542	354	568	130	105	24.2	
1-8	346	560	372	586	130	105	24.8	
1-9	364	578	390	604	130	105	24.7	
1-10	382	596	408	622	130	105	25.1	
1-11	400	614	426	640	130	105	25.5	
1-12	422	632	444	658	150	124.5	27.8	
1-13	440	650	462	676	150	124.5	28.2	
1-15	476	744	502	770	150	124.5	29.1	
1-17	512	785	536	806	150	124.5	31.5	
1-18	548	816	574	842	150	124.5	31	
1-21	584	852	610	878	150	124.5	33	
1-23	620	888	646	914	150	124.5	34.9	
1-25	-	-	686	950	163.8	127.4	41.5	
1-27	-	-	724	982	163.8	127.4	43.6	
1-30	-	-	788	1106	163.8	127.4	43.9	
1-33	-	-	842	1160	163.8	127.4	46.8	
1-36	-	-	896	1214	163.8	127.4	47.9	

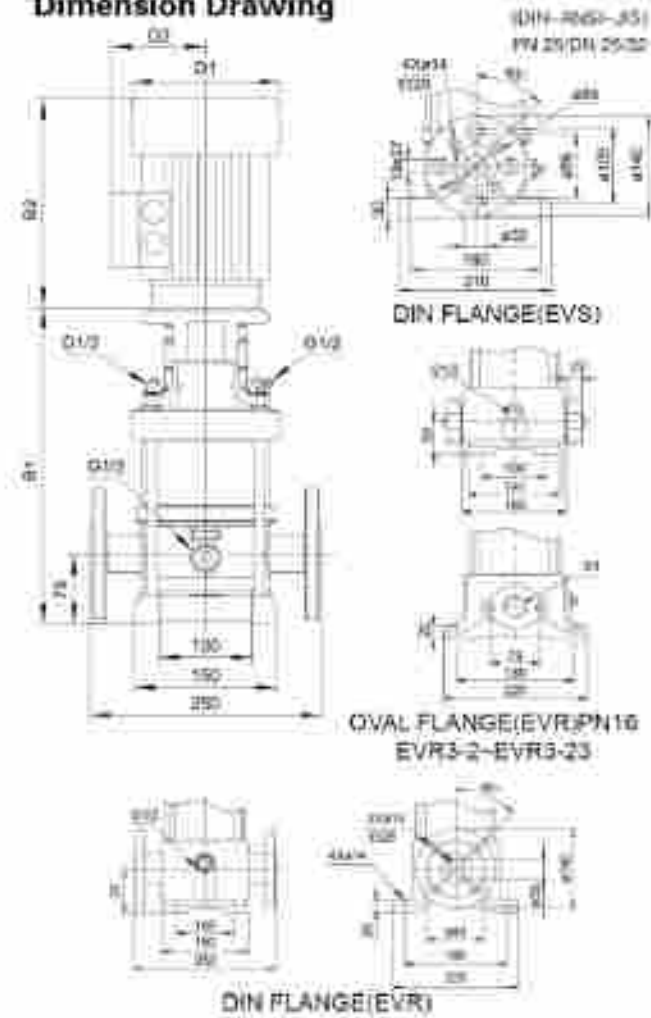
Note: B1 and B1+B2 of clamp connector and threaded connector are in compliance with that of DIN flange

MODEL	POWER (kW)	Q(m³/h)	H(m)									
			0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	
1-2	0.37		12	12	12	12	12	11	11	10	10	
1-3	0.37		16	16	16	16	17	17	16	15	14	
1-4	0.37		24	24	24	24	22	22	21	19	18	
1-5	0.37		30	30	30	29.5	28	27	26	24	22	
1-6	0.37		36	36	35	35	34	32	30	28	25	
1-7	0.37		42	42	41	40.5	39	37	35	32	30	
1-8	0.55		48	48	47	46.5	45	43	40	38	34	
1-9	0.55		54	54	53	52	50	48	45	42	37	
1-10	0.55		60	60	58	57.5	55	53	50	46	41	
1-11	0.55		65	65	64	63	61	58	54	51	45	
1-12	0.75		73	73	71	70	67	64	61	56	50	
1-13	0.75		78	78	77	75	73	69	65	60	54	
1-15	0.75		90	90	88	86	83	79	74	68	61	
1-17	1.1		103	103	101	98	95	91	85	78	70	
1-18	1.1		115	114	112	110	108	101	94	87	78	
1-21	1.1		125	125	123	120	116	110	103	95	85	
1-23	1.1		137	136	134	130	126	120	112	103	92	
1-25	1.5		153	152	150	145	142	135	128	119	108	
1-27	1.5		165	164	162	157	153	146	137	128	114	
1-30	1.5		182	181	178	173	168	162	152	140	126	
1-33	2.2		200	200	199	194	189	181	170	158	142	
1-36	2.2		221	220	217	210	206	197	185	170	154	

Hydraulic Performance Curves



Dimension Drawing

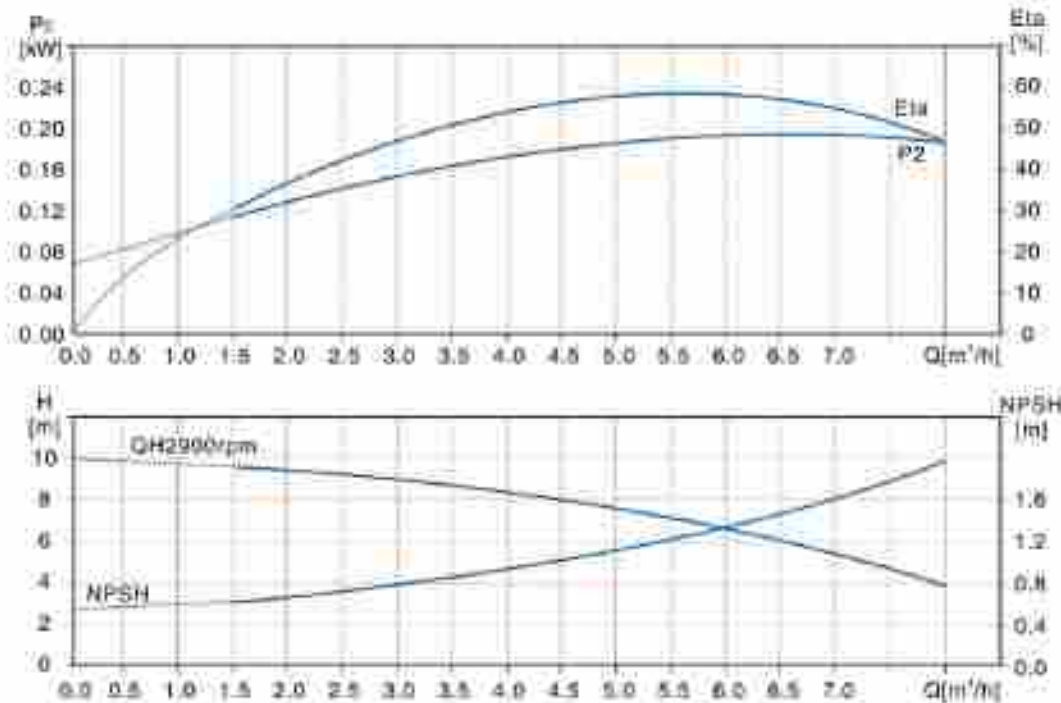
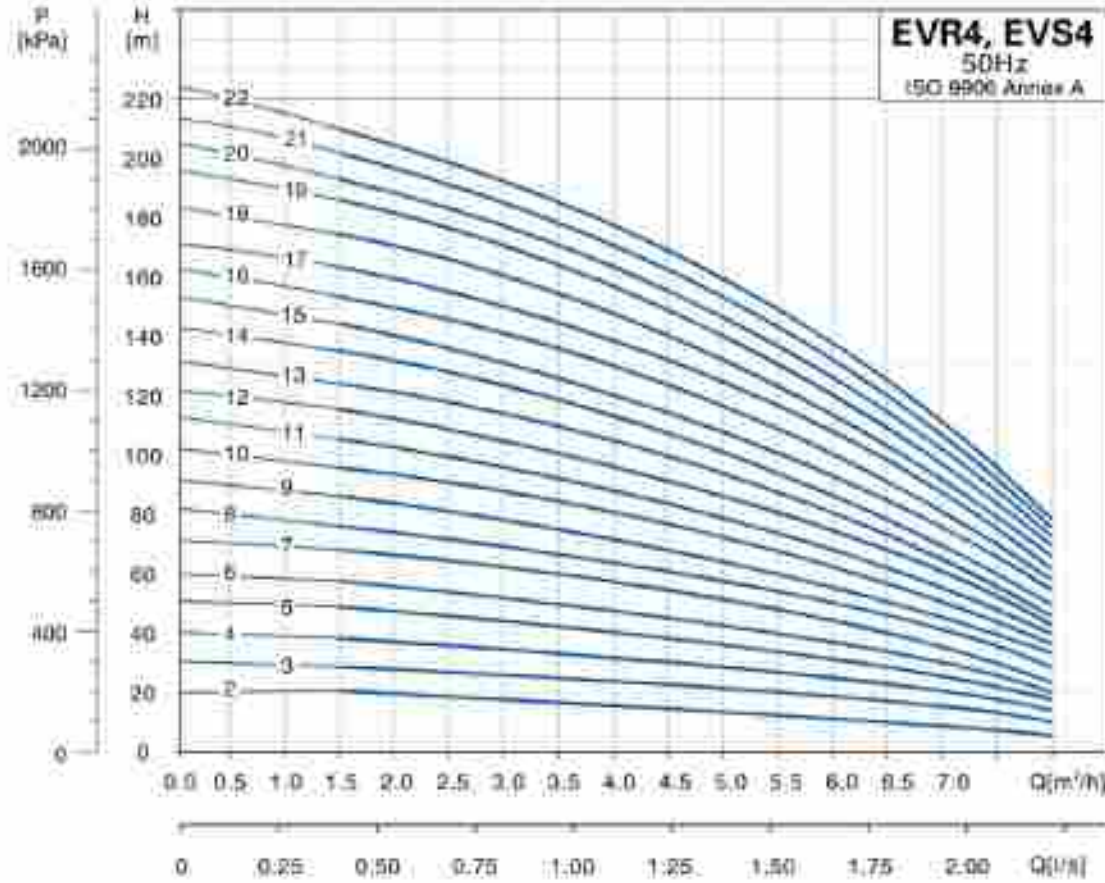


MODEL	OVAL FLANGE (EVR)		DIN FLANGE (EVR, EVS)		D1	D2	N.W. (kg)	Motor Mounting Code
	B1	B1+D2	B1	B1+D2				
3-2	256	470	282	486	130	105	21	V18
3-3	256	470	282	486	130	105	21.4	
3-4	274	488	300	514	130	105	21.8	
3-5	292	506	318	532	130	105	22.8	
3-6	310	524	336	550	130	105	23.3	
3-7	328	542	354	568	130	105	23.7	
3-8	350	576	376	614	150	124	25.5	
3-9	368	594	394	632	150	124	26.6	
3-10	388	624	412	660	150	124	27.2	
3-11	404	672	430	688	150	124	28.8	
3-12	422	690	448	716	150	124	29.7	
3-13	440	708	466	734	150	124	30.1	
3-15	470	744	502	770	150	124	32.1	
3-17	528	846	554	872	161	127	39.2	
3-19	594	924	618	936	164	127	40.2	
3-21	600	918	625	944	164	127	42.2	
3-23	636	954	662	980	164	127	42.4	
3-25	672	990	698	1016	164	127	44.4	
3-27	708	1026	734	1052	164	127	44.5	
3-29	744	1062	770	1088	164	127	45.3	
3-31	784	1124	810	1160	166	129	52.1	
3-33	824	1160	846	1196	186	129	53.1	
3-35	874	1214	900	1240	186	129	54.7	

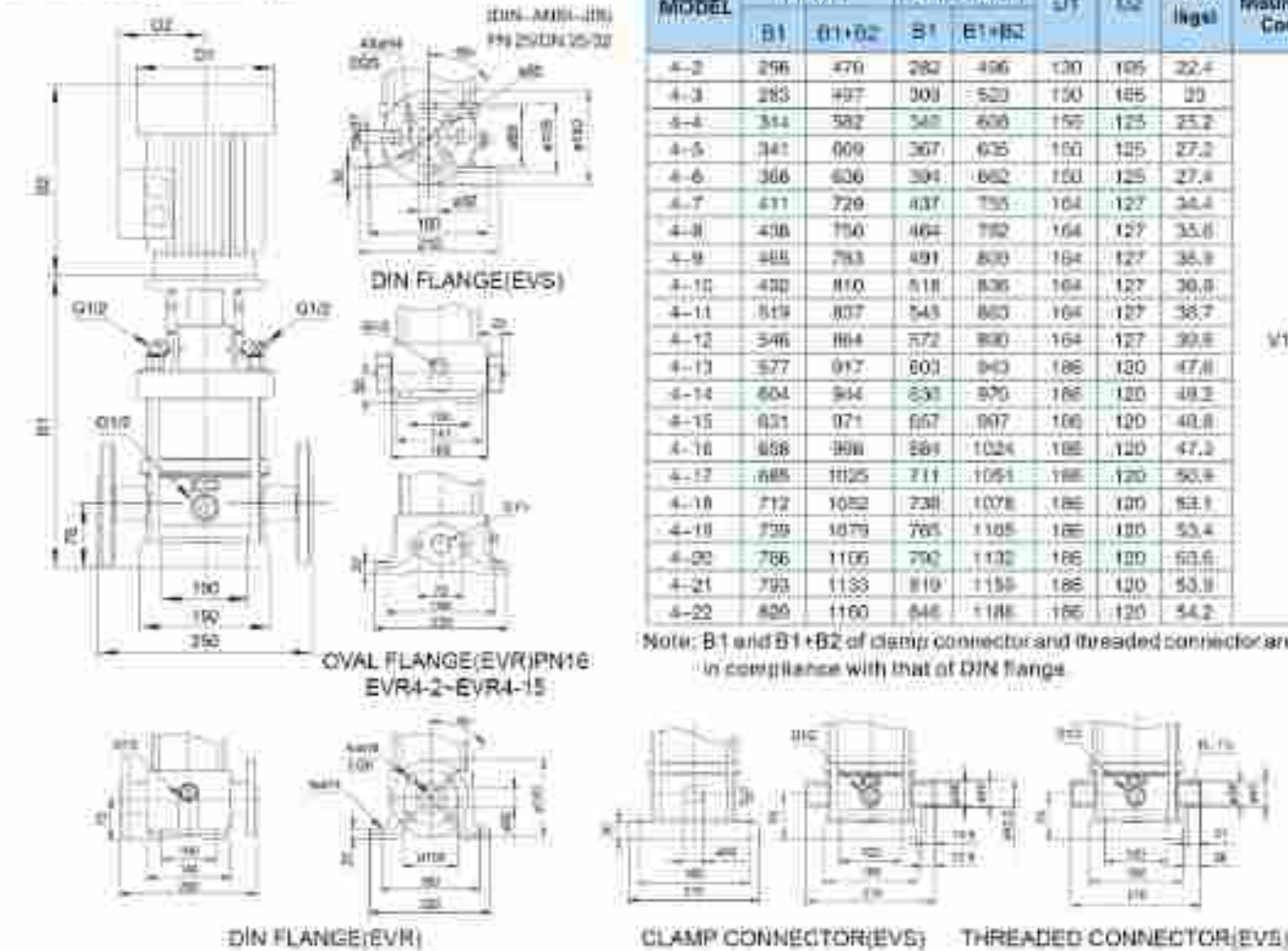
Note: B1 and B1+D2 of clamp connector and threaded connector are in compliance with that of DIN flange.

MODEL	POWER (kW)	Q(m³/h)	H(m)									
			1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.0		
3-2	0.37		13	12	12	11	11	10	9	7.5		
3-3	0.37		19	19	18	17	16	15	14	12		
3-4	0.37		25	24	23	22	20	19	17	14		
3-6	0.37		31	31	29	27	25	24	20	17		
3-8	0.55		37	36	35	33	30	28	24	21		
3-7	0.55		41	40	40	37	35	32	28	24		
3-8	0.75		51	48	47	44	41	38	33	28		
3-9	0.75		58	54	51	48	45	42	36	30		
3-10	0.75		62	60	57	54	50	46	40	33		
3-11	1.1		66	66	63	60	56	51	44	36		
3-12	1.1		75	72	69	65	61	56	48	41		
3-13	1.1		80	78	74	70	65	60	51	44		
3-15	1.1		92	89	85	80	73	68	58	49		
3-17	1.5		107	104	100	94	87	78	70	58		
3-19	1.5		119	116	111	104	97	87	77	65		
3-21	2.2		133	129	124	117	109	97	88	76		
3-23	2.2		146	141	135	128	119	106	95	81		
3-25	2.2		158	153	146	138	128	115	102	87		
3-27	2.2		170	164	157	148	138	124	110	93		
3-29	2.2		182	176	168	159	147	133	118	100		
3-31	3.0		197	191	183	173	161	142	128	110		
3-33	3.0		210	203	194	184	170	152	137	116		
3-35	3.0		228	221	211	200	185	165	149	126		

Hydraulic Performance Curves



Dimension Drawing

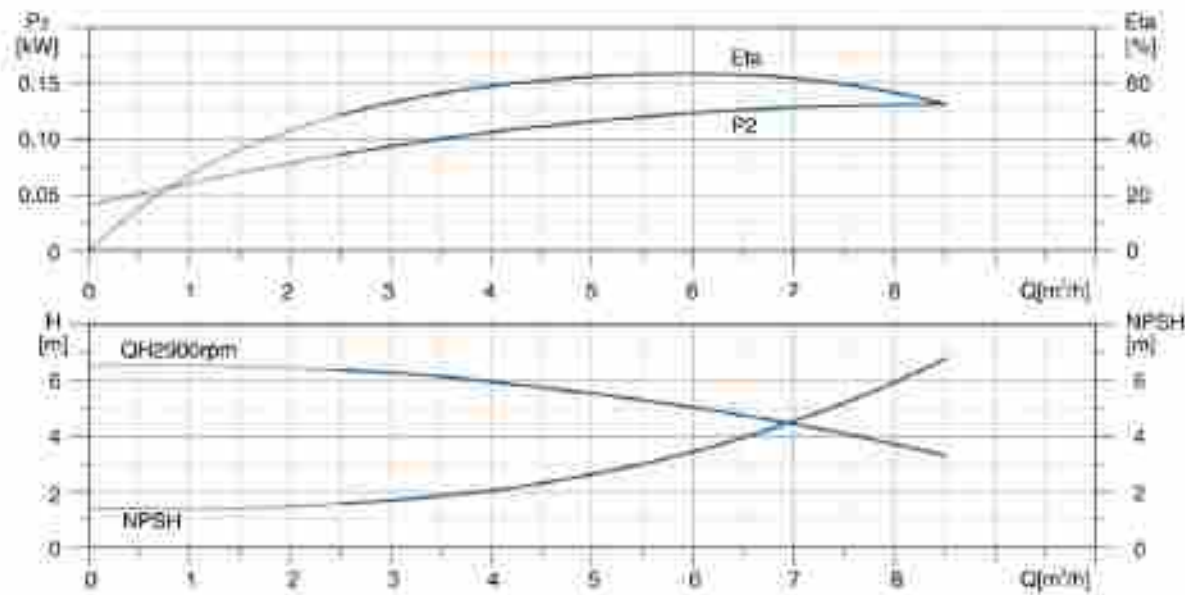
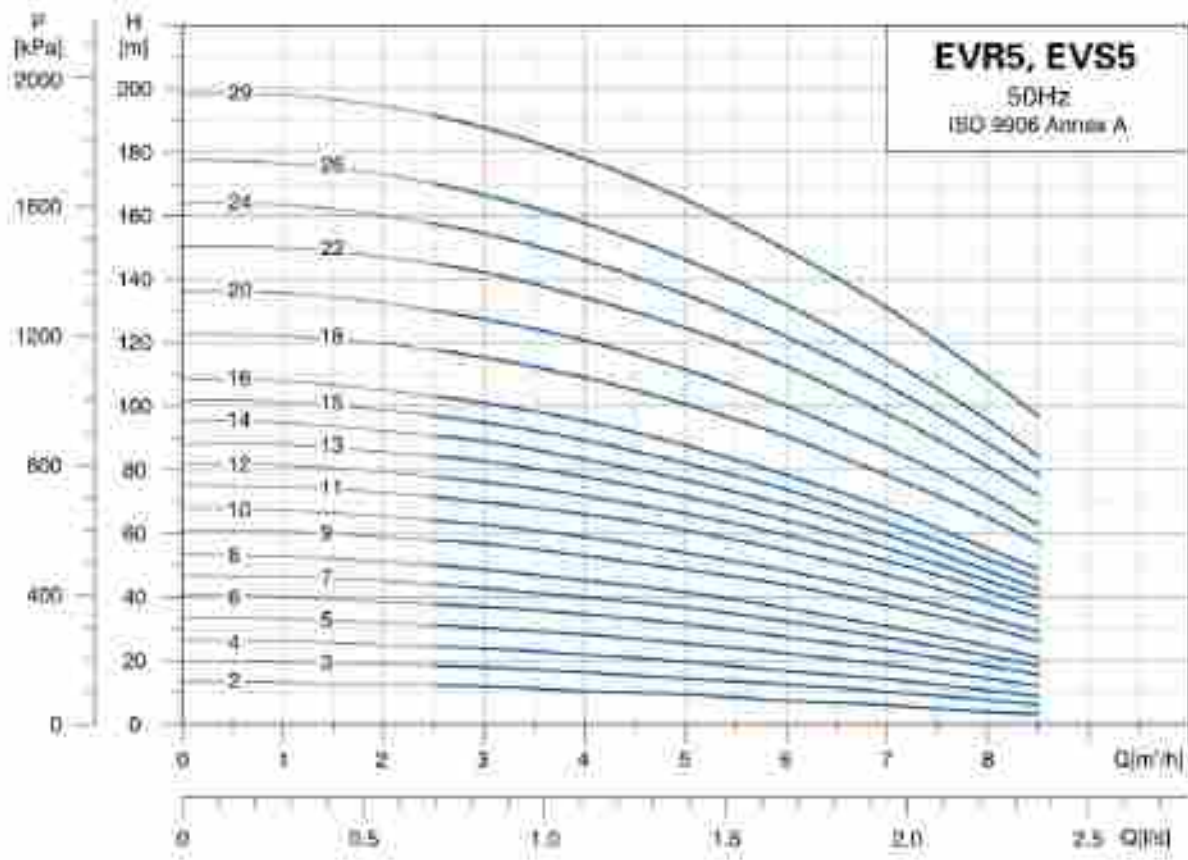


MODEL	OVAL FLANGE (EVR)		DIN FLANGE (EVR, EVS)		D1	D2	N.W. (kg)	Motor Mounting Code
	B1	B1+B2	B1	B1+B2				
4-2	256	470	282	496	100	105	22.4	V15
4-3	283	497	309	523	150	155	29	
4-4	314	522	340	554	150	125	25.2	
4-5	341	550	367	582	150	125	27.2	
4-6	366	576	394	608	150	125	27.4	
4-7	411	729	437	755	164	127	34.4	
4-8	418	750	464	782	164	127	35.8	
4-9	455	783	491	810	164	127	36.9	
4-10	480	810	518	836	164	127	38.8	
4-11	519	837	545	863	164	127	38.7	
4-12	546	864	572	890	164	127	39.8	
4-13	577	897	603	923	186	120	47.8	
4-14	604	914	630	970	186	120	48.2	
4-15	631	971	657	997	186	120	48.8	
4-16	658	998	684	1024	186	120	47.2	
4-17	685	1025	711	1051	186	120	50.8	
4-18	712	1052	738	1078	186	120	52.1	
4-19	739	1079	765	1105	186	120	53.4	
4-20	766	1106	792	1132	186	120	53.6	
4-21	793	1133	819	1159	186	120	53.8	
4-22	820	1160	846	1186	186	120	54.2	

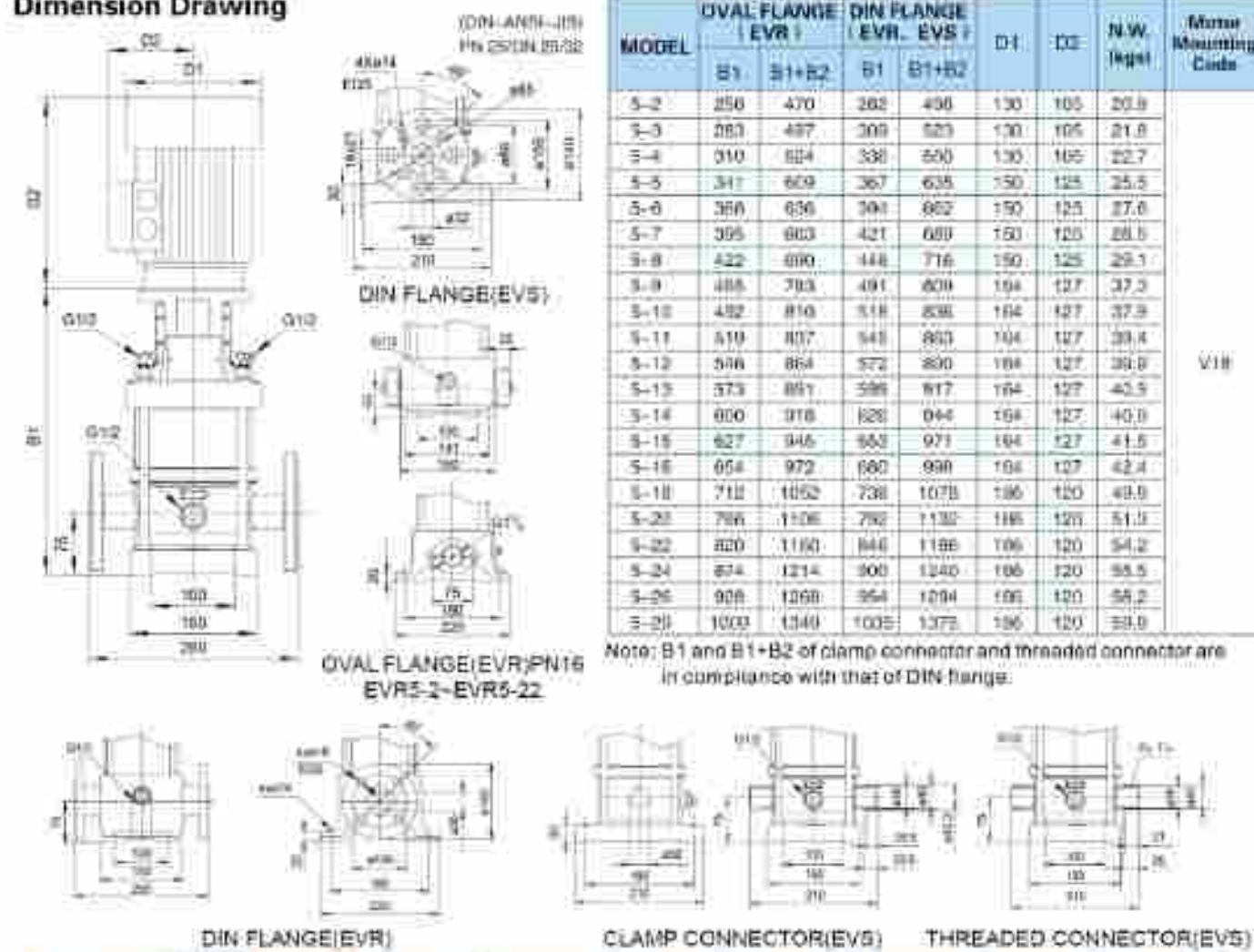
Note: B1 and B1+B2 of clamp connector and threaded connector are in compliance with that of DIN flange.

MODEL	POWER (kW)	Q(m³/h)	H(m)									
			1.5	2.0	3.0	4.0	5.0	6.0	7.0	8.0		
4-2	0.37		18	18	17	14.5	13	10.5	8	6		
4-3	0.55		28	27	26	23.5	20	18	14	10		
4-4	0.75		38	36	34	31.5	27	24.5	18	15		
4-5	1.1		47	45	43	40.5	34	31.5	23	17		
4-6	1.1		56	54	52	47.5	41	36	28	20		
4-7	1.5		66	63	61	57	48	44.5	34	24		
4-8	1.5		74	72	70	64	55	49.5	38	27		
4-9	2.2		86	81	78	72	63	56	44	32		
4-10	2.2		98	90	87	81	71	64	50	34		
4-11	2.2		105	90	86	88	78	69	53	39		
4-12	2.2		114	108	104	96	85	75	57	41		
4-13	3.0		123	117	113	103	89	83	63	45		
4-14	3.0		136	126	122	114	101	90	69	48		
4-15	3.0		142	135	131	120	108	96	73	52		
4-16	3.0		152	144	140	129	115	102	78	55		
4-17	4.0		163	153	149	137	122	108	83	62		
4-18	4.0		175	162	158	145	129	115	89	65		
4-19	4.0		183	171	166	155	137	123	94	67		
4-20	4.0		192	180	176	161	144	128	99	72		
4-21	4.0		203	210	184	169	152	134	103	75		
4-22	4.0		211	200	192	177	160	139	108	78		

Hydraulic Performance Curves



Dimension Drawing

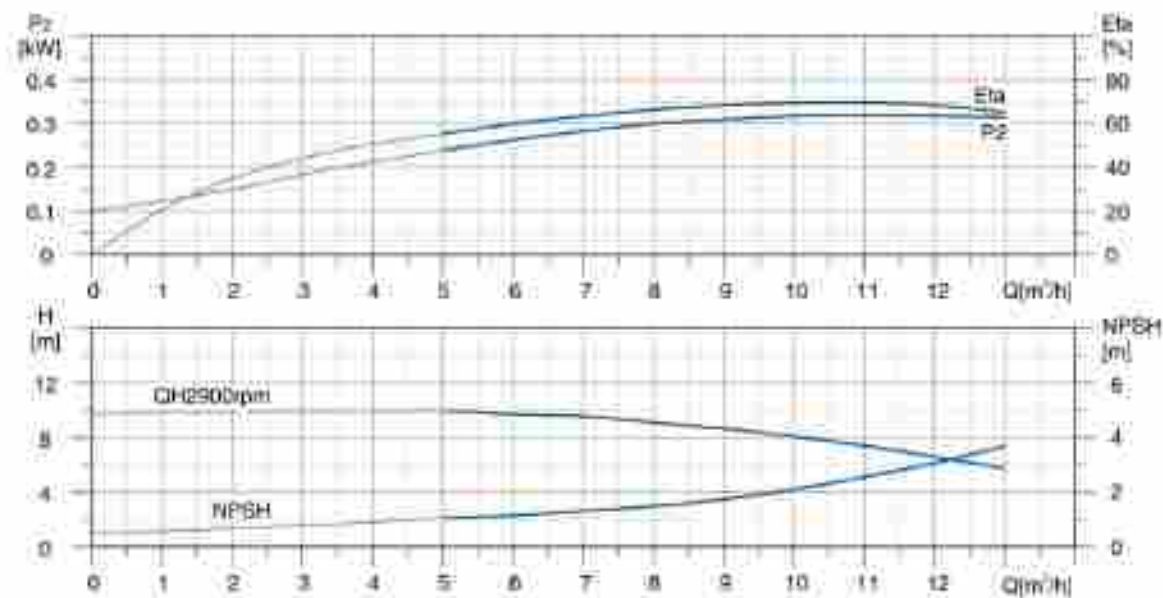
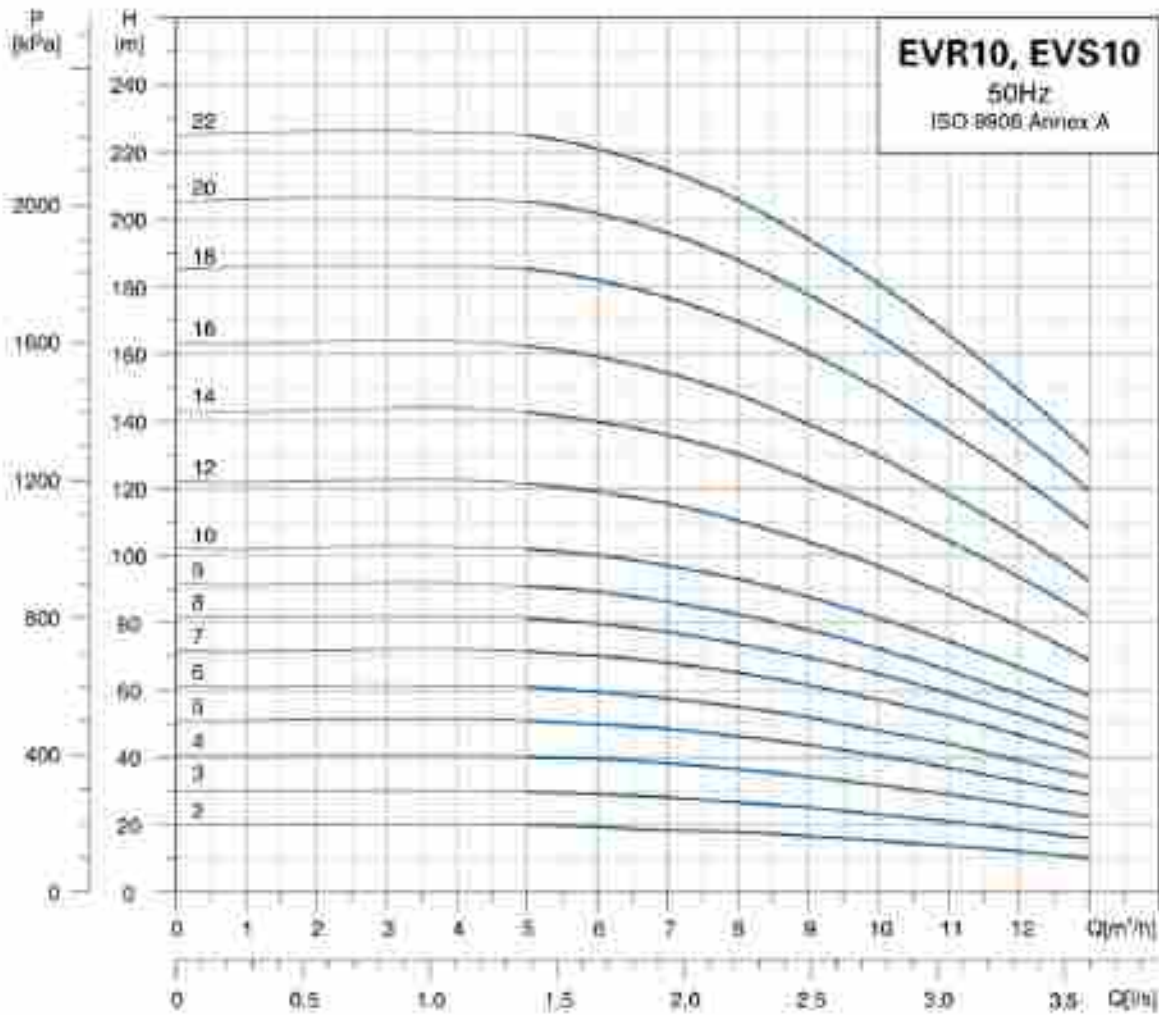


MODEL	OVAL FLANGE EVR		DIN FLANGE EVR, EVS		D1	D2	N.W. (kg)	Motor Mounting Code
	B1	B1+B2	B1	B1+B2				
5-2	256	470	262	490	130	105	20.9	V18
5-3	283	497	309	520	130	105	21.8	
5-4	310	524	338	550	130	105	22.7	
5-5	341	559	367	585	150	125	25.5	
5-6	366	586	394	612	150	125	27.8	
5-7	395	613	421	639	150	125	28.5	
5-8	422	640	448	716	150	125	29.1	
5-9	468	703	491	809	194	127	37.3	
5-10	482	810	518	838	194	127	37.9	
5-11	519	807	548	860	194	127	39.4	
5-12	506	854	572	890	194	127	39.8	
5-13	573	851	598	917	194	127	43.5	
5-14	600	918	628	944	194	127	40.9	
5-15	627	945	652	971	194	127	41.5	
5-16	654	972	680	998	194	127	42.4	
5-18	712	1052	738	1078	196	120	49.9	
5-20	766	1106	792	1132	196	120	51.3	
5-22	820	1160	844	1186	196	120	54.2	
5-24	874	1214	900	1240	196	120	55.5	
5-26	928	1268	954	1294	196	120	56.2	
5-29	1033	1340	1035	1372	196	120	59.9	

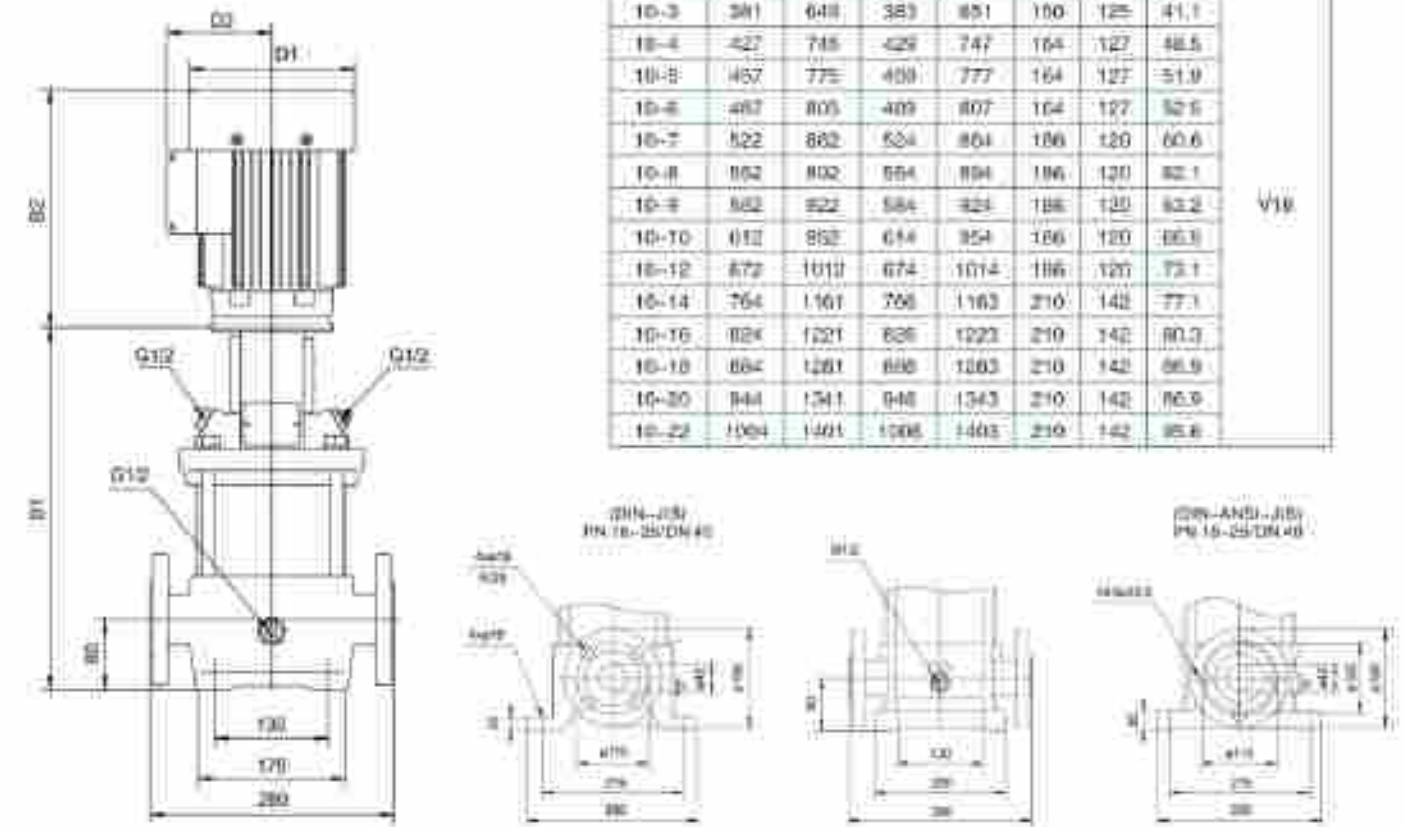
Note: B1 and B1+B2 of clamp connector and threaded connector are in compliance with that of DIN flange.

MODEL	POWER (kW)	Q(m³/h)	H(m)							
			1.0	3.0	3.0	4.0	5.0	6.0	7.0	
5-2	0.37	13	13	12	12	10	9	7	6	
5-3	0.55	19	19	19	18	16	15	12	10	
5-4	0.55	26	26	25	24	22	19	16	14	
5-5	0.76	33	33	32	30	26	24	22	18	
5-6	1.1	40	40	38	37	34	29	27	23	
5-7	1.1	46	46	45	42	40	32	32	27	
5-8	1.1	53	53	51	48	45	40	36	31	
5-9	1.3	60	60	59	56	53	47	44	37	
5-10	1.5	67	67	65	62	59	53	48	41	
5-11	2.2	74	74	73	70	66	59	54	47	
5-12	2.2	81	81	79	76	72	63	60	51	
5-13	2.2	88	88	85	82	78	68	64	55	
5-14	2.2	95	95	92	89	83	74	69	60	
5-15	2.2	101	101	99	95	89	79	74	63	
5-16	2.2	108	108	105	101	95	85	78	68	
5-18	3.0	122	122	118	115	108	98	90	78	
5-20	3.5	135	135	132	127	120	108	100	87	
5-22	4.0	150	150	147	142	134	120	112	97	
5-24	4.0	163	163	160	154	146	132	122	108	
5-26	4.0	176	176	173	166	157	145	132	115	
5-29	4.0	198	198	194	188	178	165	149	131	

Hydraulic Performance Curves



Dimension Drawing



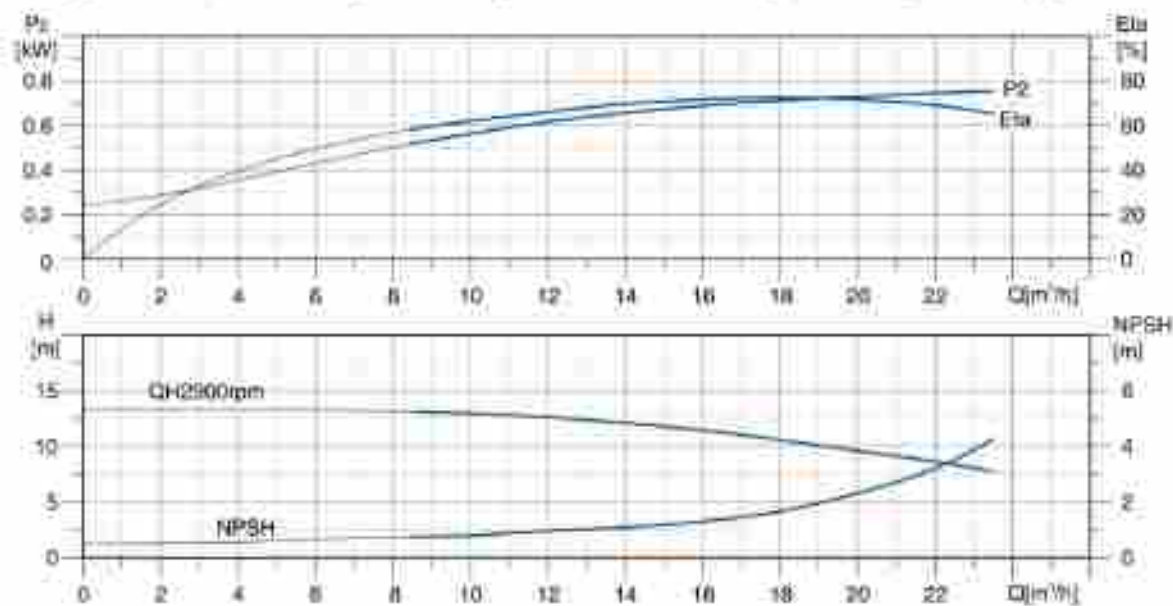
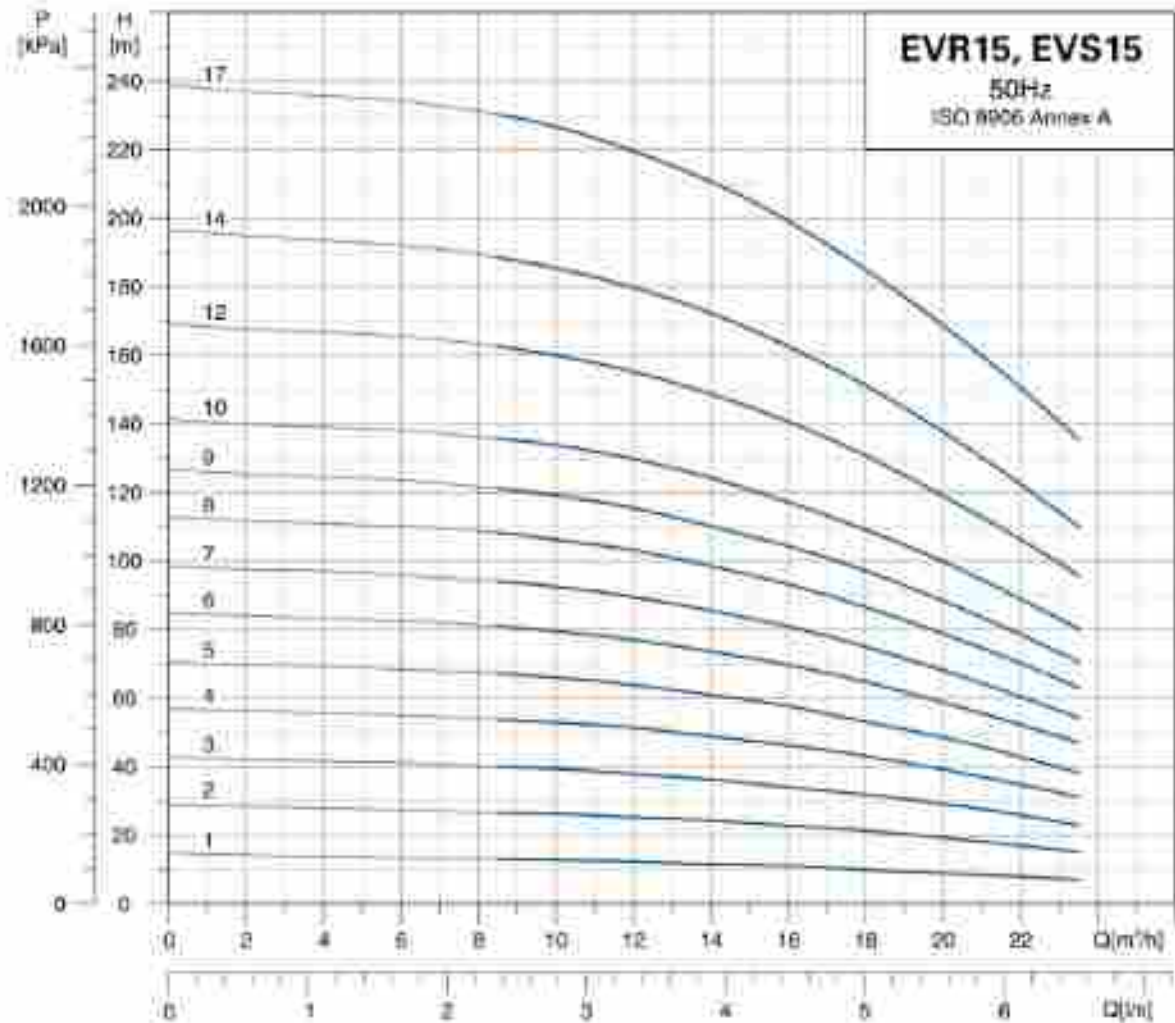
MODEL	DIN FLANGE (EVR)		DIN FLANGE (EVS)		D1	D2	N.W. (kg)	Motor Mounting Code
	B1	B1+B2	B1	B1+B2				
10-2	35F	616	353	621	150	125	40.6	V19
10-3	38F	648	383	651	150	125	41.1	
10-4	42F	745	429	747	154	127	46.5	
10-5	45F	775	459	777	154	127	51.9	
10-6	48F	805	489	807	154	127	52.5	
10-7	52F	862	524	864	156	120	60.6	
10-8	55F	892	554	894	156	120	62.1	
10-9	58F	922	584	924	156	120	63.2	
10-10	61F	952	614	954	156	120	65.3	
10-12	67F	1010	674	1014	156	120	73.1	
10-14	75F	1101	756	1103	210	142	77.1	
10-16	82F	1221	826	1223	210	142	80.7	
10-18	88F	1281	886	1283	210	142	86.9	
10-20	94F	1341	946	1343	210	142	86.9	
10-22	100F	1401	1006	1403	210	142	85.6	

EVR

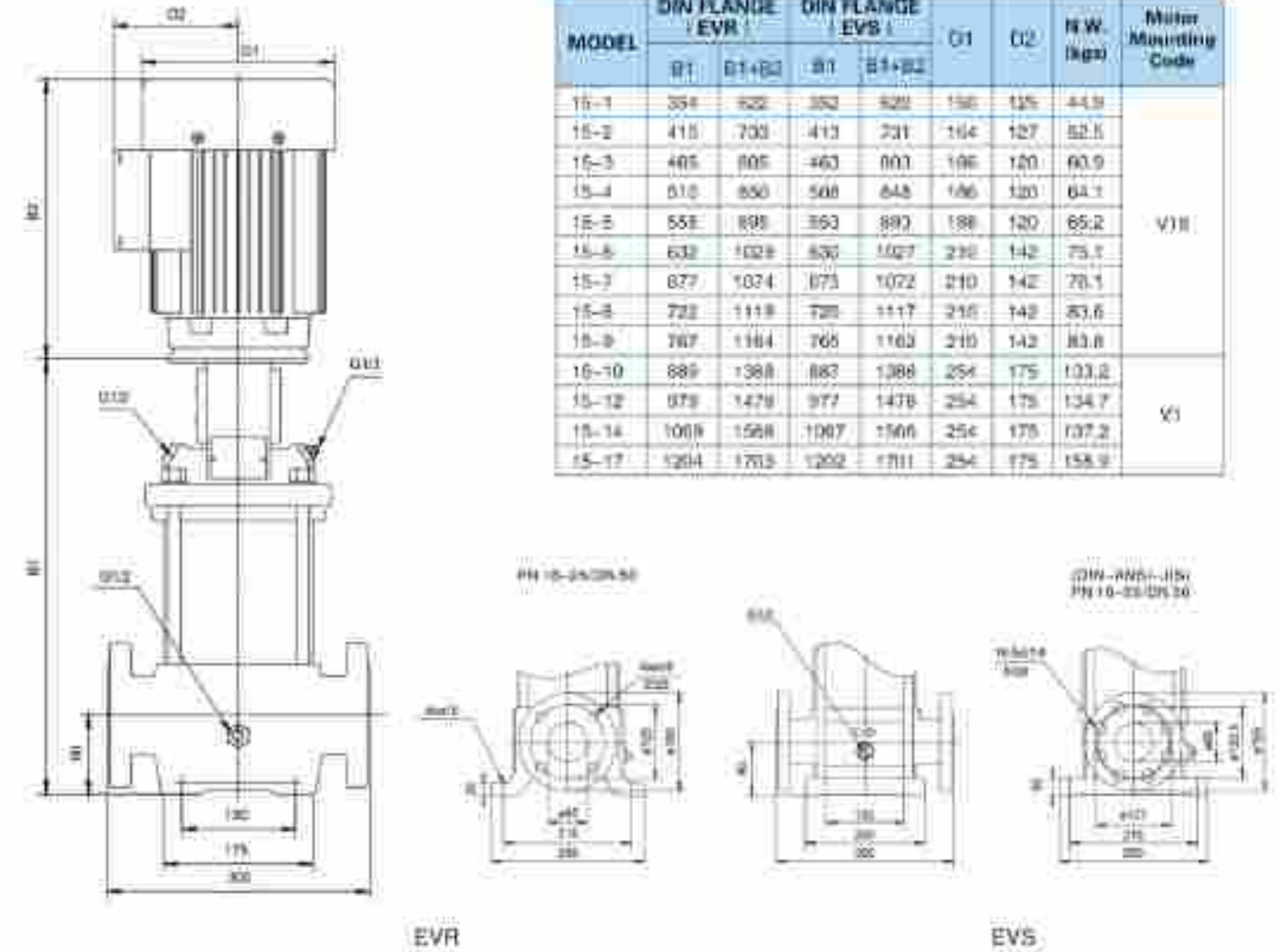
EVS

MODEL	POWER (kW)	Q(m³/h)	2	4	6	8	10	12
10-2	0.75	H(m)	20	20	19	18	15	12
10-3	1.1		30	30	29	26	23	18
10-4	1.5		40	40	40	36	32	26
10-5	2.2		51	51	50	46	40	33
10-6	2.2		61	61	59	55	48	39
10-7	3.0		72	72	70	65	56	46
10-8	3.0		82	82	80	74	64	53
10-9	3.0		92	92	89	82	70	59
10-10	4.0		102	102	100	93	80	66
10-12	6.0		122	122	119	110	95	79
10-14	5.5		143	144	140	130	113	94
10-16	5.5		163	163	158	148	128	106
10-18	7.5		183	186	182	169	147	123
10-20	7.5		205	204	201	188	164	136
10-22	7.5	220	226	221	206	179	147	

Hydraulic Performance Curves



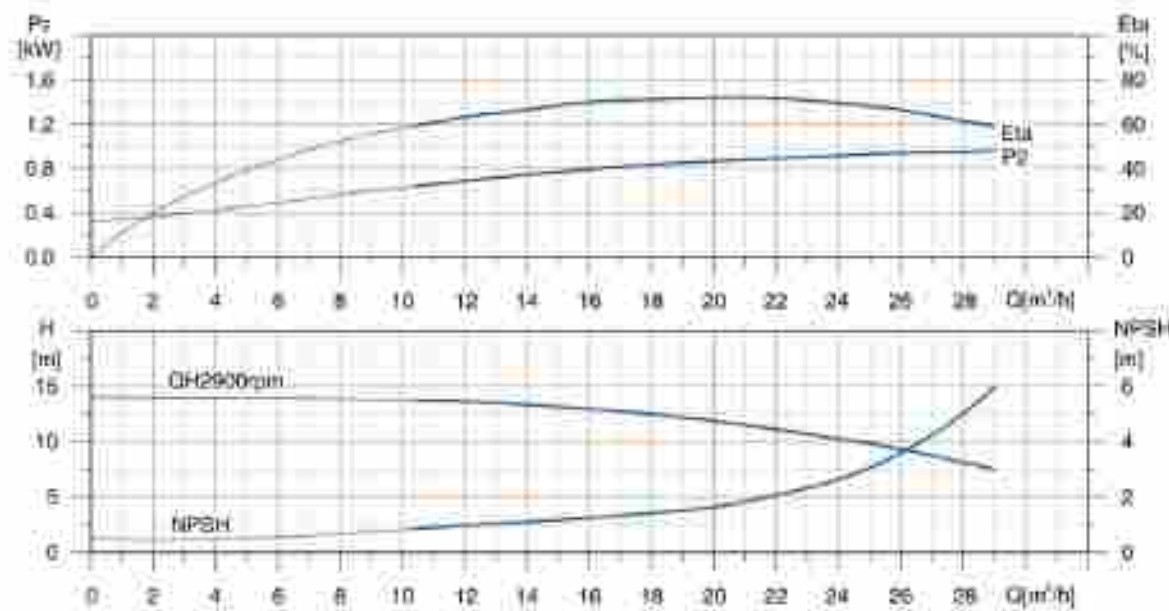
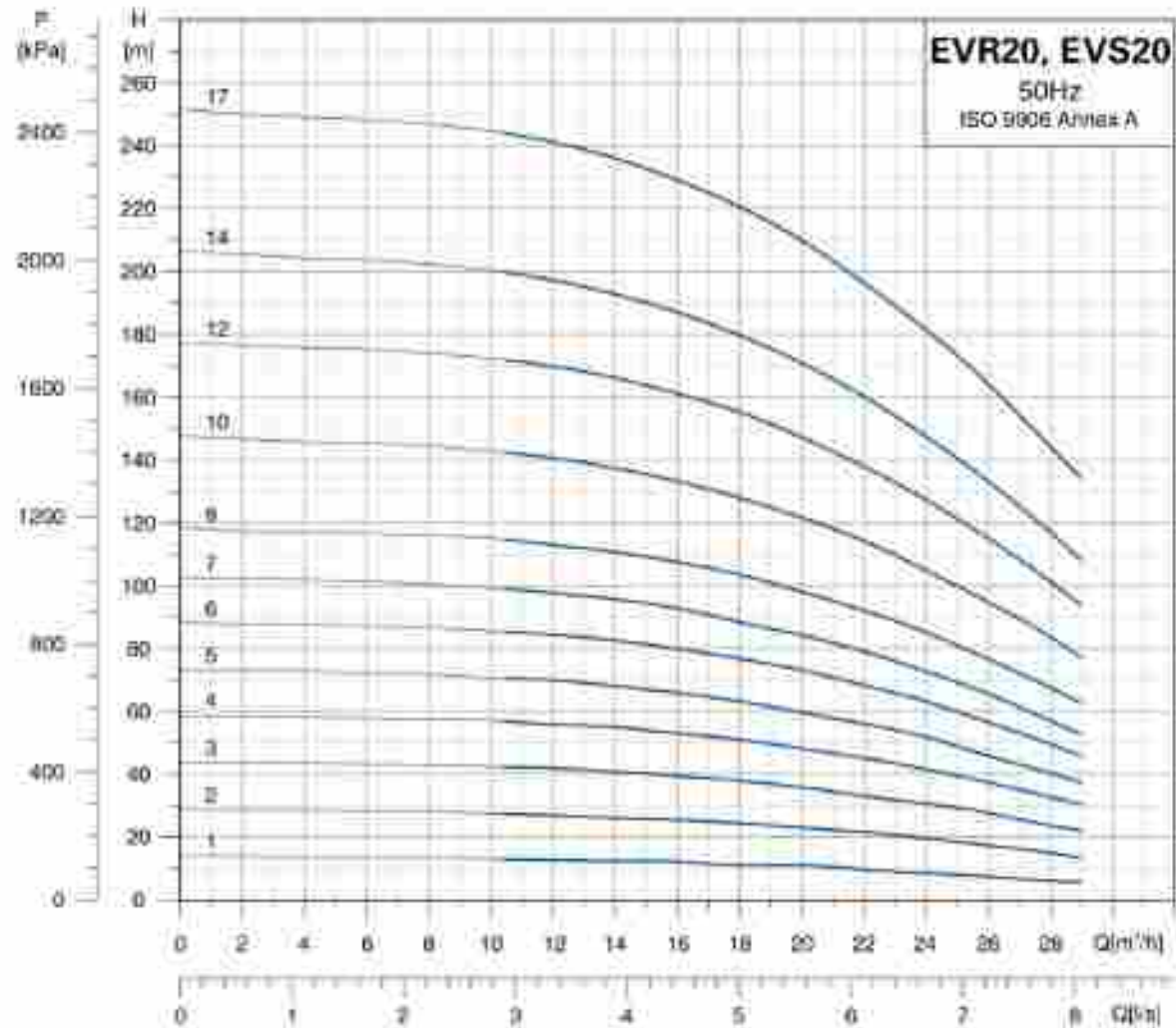
Dimension Drawing



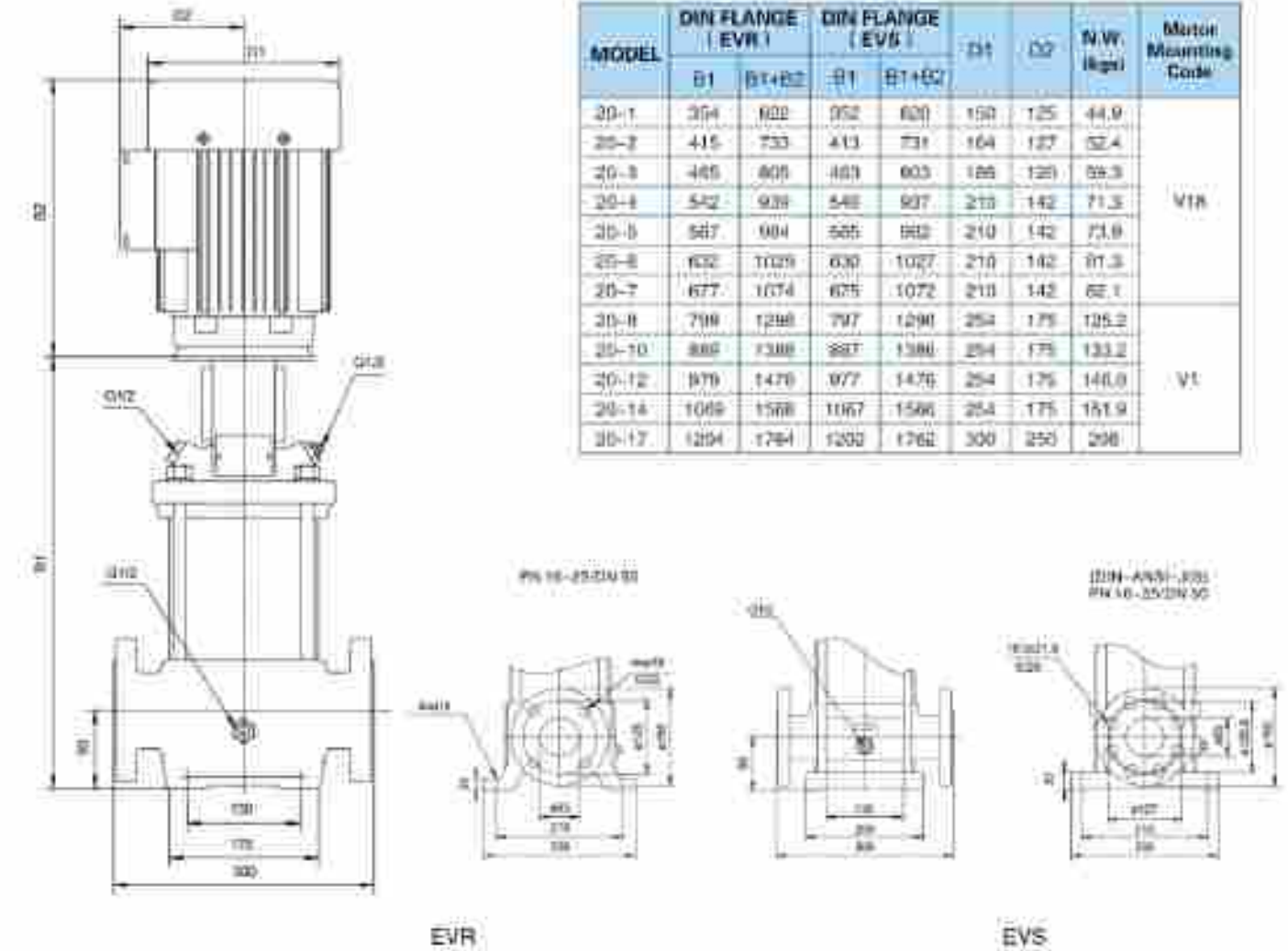
MODEL	DIN FLANGE EVR		DIN FLANGE EVS		D1	D2	N.W. (kg)	Miter Mounting Code
	B1	B1+B3	B1	B1+B3				
15-1	354	625	352	625	150	125	44.9	V111
15-2	415	700	413	701	164	127	52.5	
15-3	465	805	463	803	180	120	60.9	
15-4	510	850	508	848	186	120	64.1	
15-5	558	895	553	893	188	120	65.2	
15-6	632	1028	630	1027	210	142	75.1	
15-7	677	1074	675	1072	210	142	78.1	
15-8	722	1118	720	1117	210	142	83.6	
15-9	767	1164	765	1163	210	142	83.8	
15-10	889	1388	887	1388	254	175	103.2	V1
15-12	979	1479	977	1478	254	175	104.7	
15-14	1069	1568	1067	1566	254	175	107.2	
15-17	1264	1703	1262	1701	254	175	158.9	

MODEL	POWER (kW)	Q(m³/h)	1	6	9	12	16	18	21
15-1	1.1	H(m)	15	13	13	13	11	10	9
15-2	2.2		26	27	26	26	23	21	18
15-3	3.0		42	41	40	38	35	32	28
15-4	4.0		58	55	55	51	47	43	38
15-5	4.0		70	68	68	64	58	53	46
15-6	5.5		83	82	80	77	71	64	58
15-7	5.5		96	96	94	88	83	75	66
15-8	7.5		112	110	108	103	96	86	75
15-9	7.5		125	123	120	115	108	97	84
15-10	11.0		140	136	135	129	120	109	95
15-12	11.0		168	165	162	165	143	130	114
15-14	11.0		194	192	188	180	160	151	130
15-17	15.0		227	234	230	210	205	185	160

Hydraulic Performance Curves



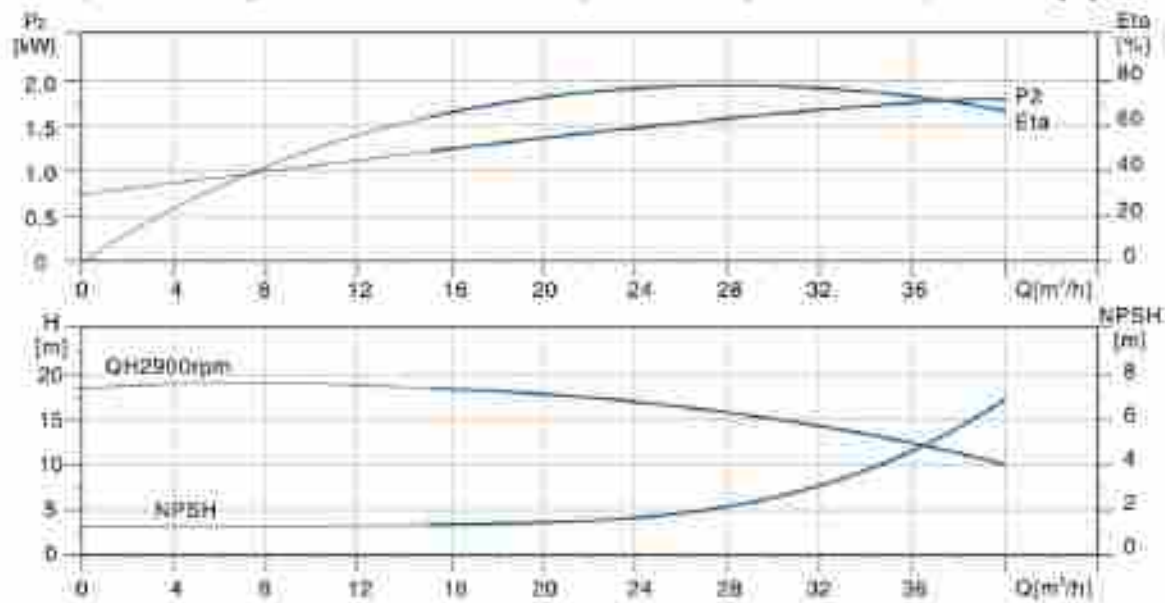
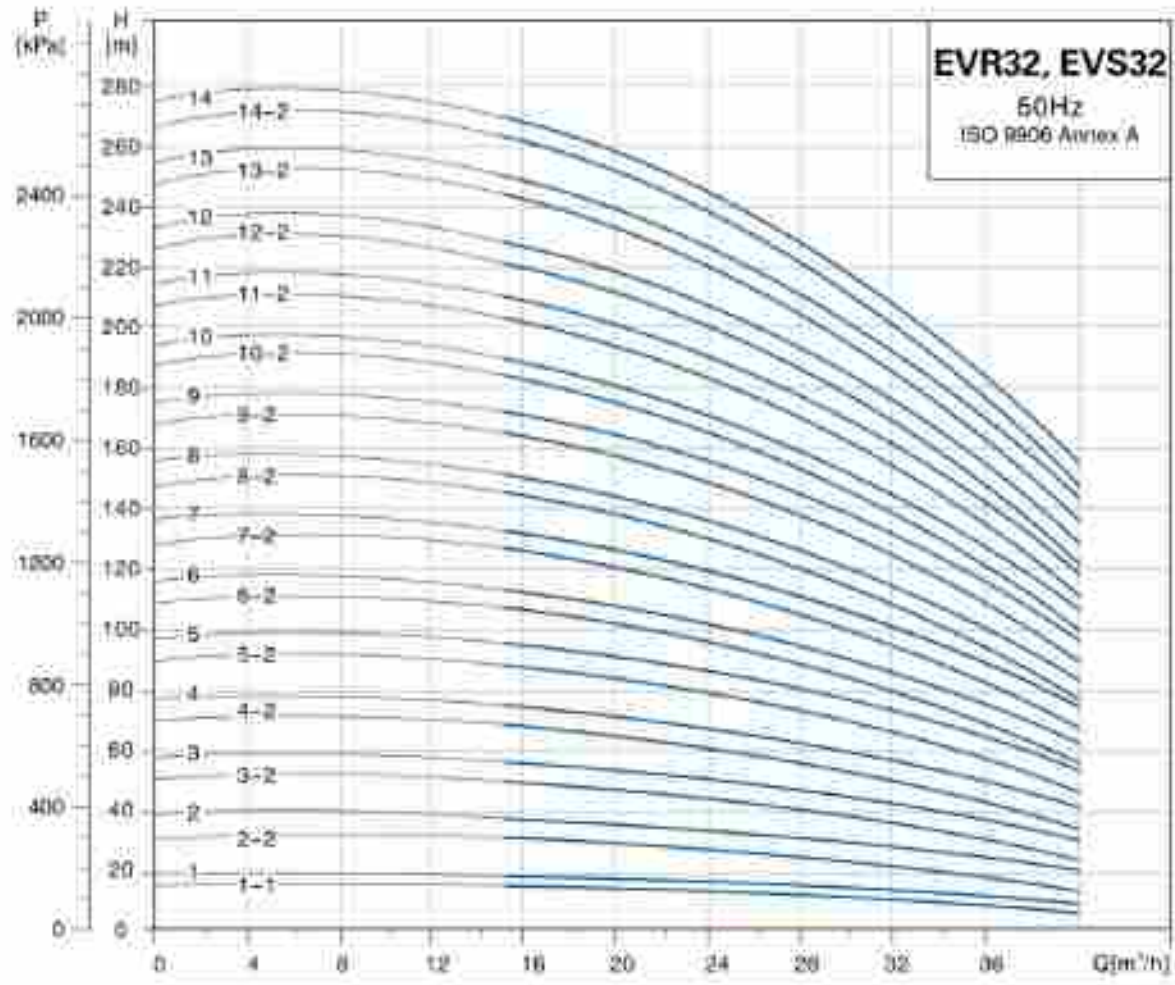
Dimension Drawing



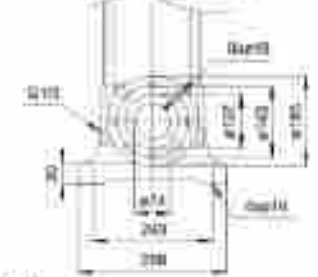
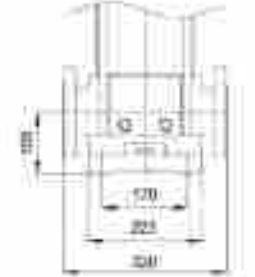
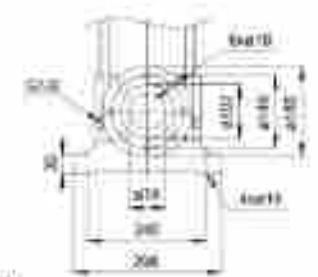
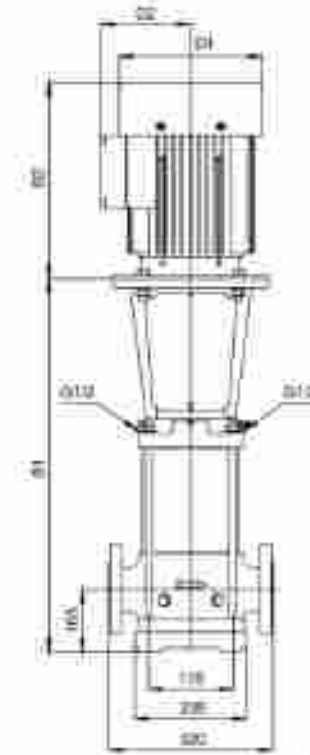
MODEL	DIN FLANGE (EVR)		DIN FLANGE (EVS)		D1	D2	N.W. (kg)	Motor Mounting Code
	B1	B1+B2	B1	B1+B2				
20-1	304	600	352	600	150	125	44.9	V1A
20-2	415	733	413	731	164	127	52.4	
20-3	465	805	463	803	166	128	59.3	
20-4	542	936	540	937	210	142	71.3	
20-5	567	984	565	982	210	142	73.9	
20-6	632	1029	630	1027	210	142	81.3	
20-7	677	1074	675	1072	210	142	82.1	
20-8	798	1298	797	1296	254	175	125.2	V1
20-10	880	1388	887	1386	254	175	133.2	
20-12	979	1479	977	1476	254	175	140.0	
20-14	1065	1568	1067	1566	254	175	151.9	
20-17	1294	1784	1290	1782	300	250	208	

MODEL	POWER (kW)	Q(m³/h)	4	8	12	16	20	24	28
20-1	1.1	H(m)	13	13	13	12	10.5	9.5	8.5
20-2	2.2		26	28	27	25	22.5	19	15
20-3	4.0		43	43	42	39	36	30	25
20-4	5.3		58	57	56	50	48	41	32
20-5	5.5		73	72	70	66	60	52	40
20-6	7.5		87	89	84	80	72	62	49
20-7	7.5		102	100	97	93	84	72	57
20-8	11.0		117	116	113	107	96	85	67
20-10	11.0		140	144	140	132	120	105	83
20-12	15.0		179	174	169	161	144	127	101
20-14	15.0		204	202	197	187	168	147	117
20-17	16.5		249	247	241	229	208	181	148

Hydraulic Performance Curves

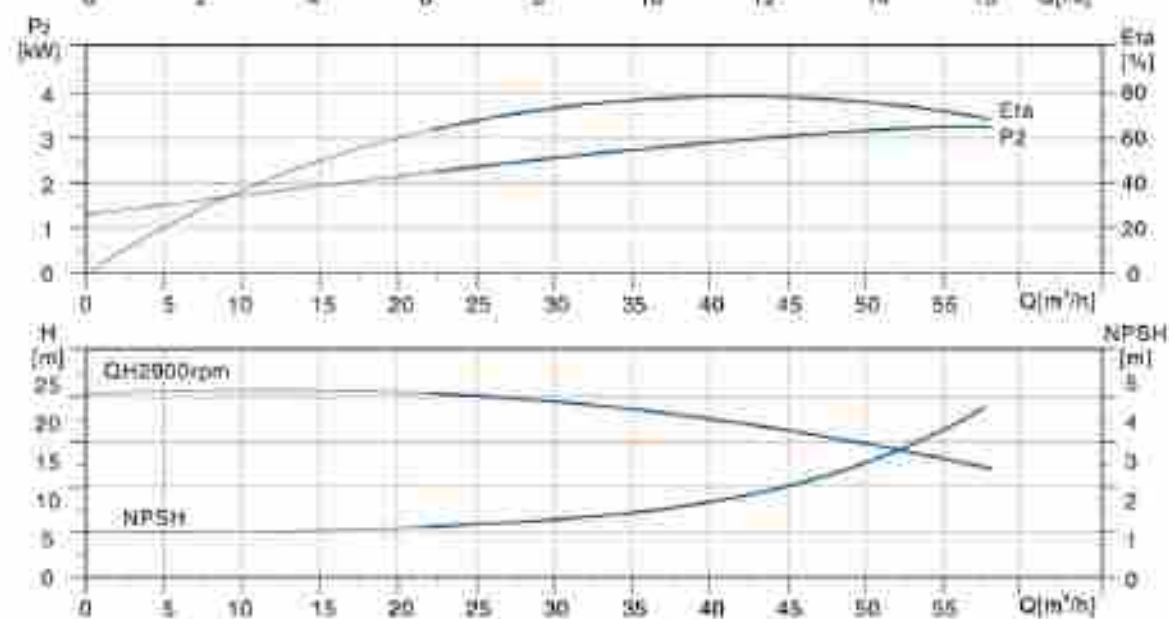
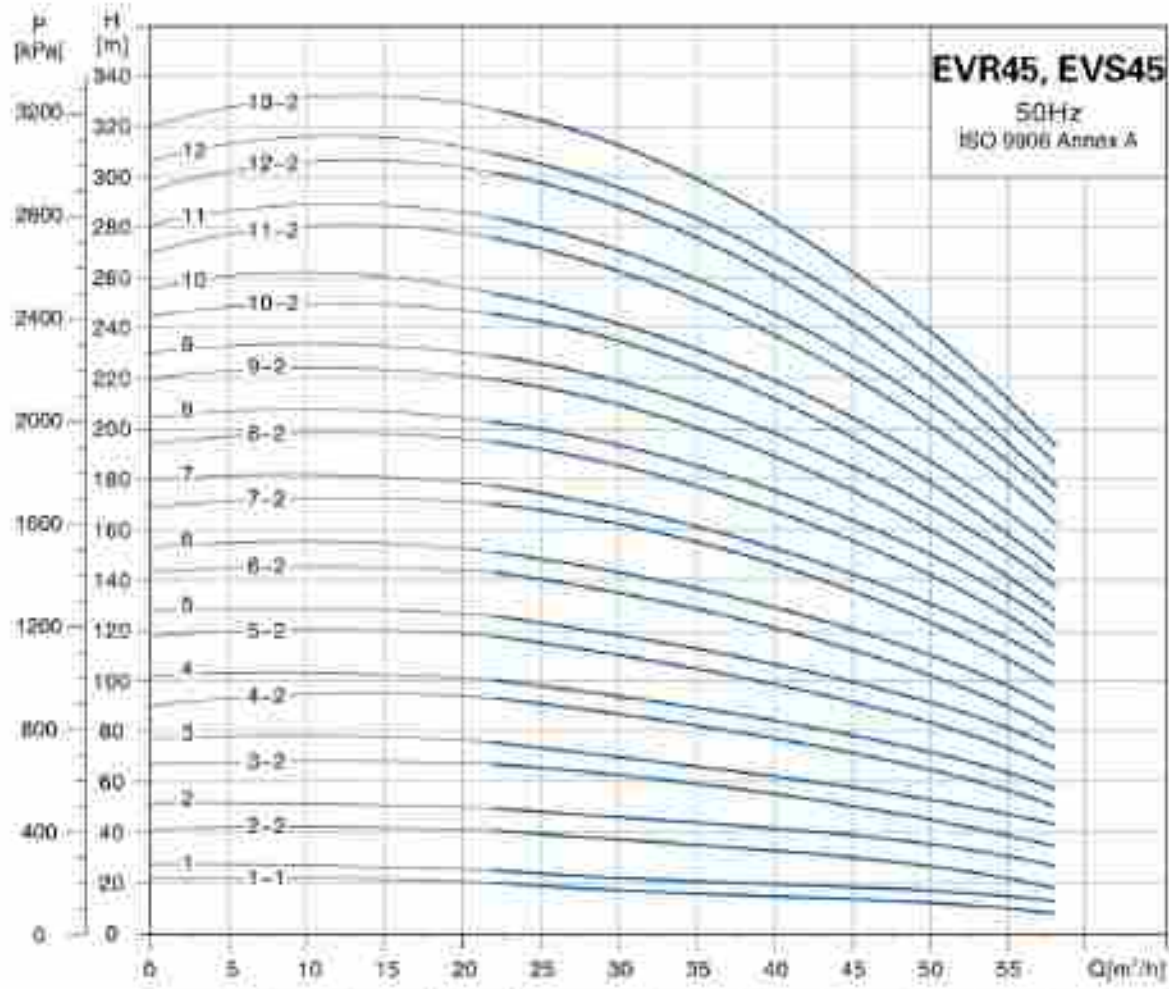


Dimension Drawing

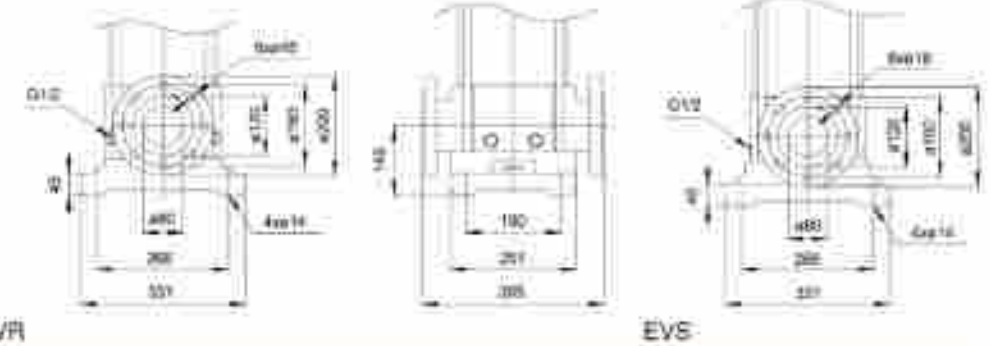
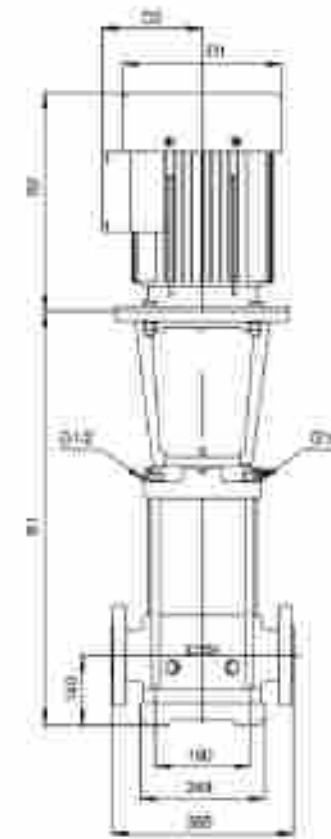


MODEL	DIN FLANGE(EVR, EVS)		D1	D2	N.W (kg)	Motor Mounting Code
	B	B1*B2				
32-1-1	85	77	164	127	61.7	VI
32-1-2	85	77	164	127	60.7	
32-2-2	95	88	166	128	52.0	
32-3-2	105	99	168	129	73.3	
32-4-2	115	109	170	130	100.0	
32-5-2	125	119	172	131	130.0	
32-6-2	135	129	174	132	165.0	
32-7-2	145	139	176	133	205.0	
32-8-2	155	149	178	134	250.0	
32-9-2	165	159	180	135	300.0	
32-10-2	175	169	182	136	355.0	
32-11-2	185	179	184	137	415.0	
32-12-2	195	189	186	138	480.0	
32-13-2	205	199	188	139	550.0	
32-14-2	215	209	190	140	625.0	
32-15-2	225	219	192	141	705.0	
32-16-2	235	229	194	142	790.0	
32-17-2	245	239	196	143	880.0	
32-18-2	255	249	198	144	975.0	
32-19-2	265	259	200	145	1075.0	
32-20-2	275	269	202	146	1180.0	
32-21-2	285	279	204	147	1290.0	
32-22-2	295	289	206	148	1405.0	
32-23-2	305	299	208	149	1525.0	
32-24-2	315	309	210	150	1650.0	
32-25-2	325	319	212	151	1780.0	
32-26-2	335	329	214	152	1915.0	
32-27-2	345	339	216	153	2060.0	
32-28-2	355	349	218	154	2215.0	
32-29-2	365	359	220	155	2380.0	
32-30-2	375	369	222	156	2555.0	
32-31-2	385	379	224	157	2740.0	
32-32-2	395	389	226	158	2935.0	
32-33-2	405	399	228	159	3140.0	
32-34-2	415	409	230	160	3355.0	
32-35-2	425	419	232	161	3580.0	
32-36-2	435	429	234	162	3815.0	
32-37-2	445	439	236	163	4060.0	
32-38-2	455	449	238	164	4315.0	
32-39-2	465	459	240	165	4580.0	
32-40-2	475	469	242	166	4855.0	
32-41-2	485	479	244	167	5140.0	
32-42-2	495	489	246	168	5435.0	
32-43-2	505	499	248	169	5740.0	
32-44-2	515	509	250	170	6055.0	
32-45-2	525	519	252	171	6380.0	
32-46-2	535	529	254	172	6715.0	
32-47-2	545	539	256	173	7060.0	
32-48-2	555	549	258	174	7415.0	
32-49-2	565	559	260	175	7780.0	
32-50-2	575	569	262	176	8155.0	
32-51-2	585	579	264	177	8540.0	
32-52-2	595	589	266	178	8935.0	
32-53-2	605	599	268	179	9340.0	
32-54-2	615	609	270	180	9755.0	
32-55-2	625	619	272	181	10180.0	
32-56-2	635	629	274	182	10615.0	
32-57-2	645	639	276	183	11060.0	
32-58-2	655	649	278	184	11515.0	
32-59-2	665	659	280	185	11980.0	
32-60-2	675	669	282	186	12455.0	
32-61-2	685	679	284	187	12940.0	
32-62-2	695	689	286	188	13435.0	
32-63-2	705	699	288	189	13940.0	
32-64-2	715	709	290	190	14455.0	
32-65-2	725	719	292	191	14980.0	
32-66-2	735	729	294	192	15515.0	
32-67-2	745	739	296	193	16060.0	
32-68-2	755	749	298	194	16615.0	
32-69-2	765	759	300	195	17180.0	
32-70-2	775	769	302	196	17755.0	
32-71-2	785	779	304	197	18340.0	
32-72-2	795	789	306	198	18935.0	
32-73-2	805	799	308	199	19540.0	
32-74-2	815	809	310	200	20155.0	
32-75-2	825	819	312	201	20780.0	
32-76-2	835	829	314	202	21415.0	
32-77-2	845	839	316	203	22060.0	
32-78-2	855	849	318	204	22715.0	
32-79-2	865	859	320	205	23380.0	
32-80-2	875	869	322	206	24055.0	
32-81-2	885	879	324	207	24740.0	
32-82-2	895	889	326	208	25435.0	
32-83-2	905	899	328	209	26140.0	
32-84-2	915	909	330	210	26855.0	
32-85-2	925	919	332	211	27580.0	
32-86-2	935	929	334	212	28315.0	
32-87-2	945	939	336	213	29060.0	
32-88-2	955	949	338	214	29815.0	
32-89-2	965	959	340	215	30580.0	
32-90-2	975	969	342	216	31355.0	
32-91-2	985	979	344	217	32140.0	
32-92-2	995	989	346	218	32935.0	
32-93-2	1005	999	348	219	33740.0	
32-94-2	1015	1009	350	220	34555.0	
32-95-2	1025	1019	352	221	35380.0	
32-96-2	1035	1029	354	222	36215.0	
32-97-2	1045	1039	356	223	37060.0	
32-98-2	1055	1049	358	224	37915.0	
32-99-2	1065	1059	360	225	38780.0	
32-100-2	1075	1069	362	226	39655.0	
32-101-2	1085	1079	364	227	40540.0	
32-102-2	1095	1089	366	228	41435.0	
32-103-2	1105	1099	368	229	42340.0	
32-104-2	1115	1109	370	230	43255.0	
32-105-2	1125	1119	372	231	44180.0	
32-106-2	1135	1129	374	232	45115.0	
32-107-2	1145	1139	376	233	46060.0	
32-108-2	1155	1149	378	234	47015.0	
32-109-2	1165	1159	380	235	47980.0	
32-110-2	1175	1169	382	236	48955.0	
32-111-2	1185	1179	384	237	49940.0	
32-112-2	1195	1189	386	238	50935.0	
32-113-2	1205	1199	388	239	51940.0	
32-114-2	1215	1209	390	240	52955.0	
32-115-2	1225	1219	392	241	53980.0	
32-116-2	1235	1229	394	242	55015.0	
32-117-2	1245	1239	396	243	56060.0	
32-118-2	1255	1249	398	244	57115.0	
32-119-2	1265	1259	400	245	58180.0	
32-120-2	1275	1269	402	246	59255.0	
32-121-2	1285	1279	404	247	60340.0	
32-122-2	1295	1289	406	248	61435.0	
32-123-2	1305	1299	408	249	62540.0	
32-124-2	1315	1309	410	250	63655.0	
32-125-2	1325	1319	412	251	64780.0	
32-126-2	1335	1329	414	252	65915.0	
32-127-2	1345	1339	416	253	67060.0	
32-128-2	1355	1349	418	254	68215.0	
32-129-2	1365	1359	420	255	69380.0	
32-130-2	1375	1369	422	256	70555.0	
32-131-2	1385	1379	424	257	71740.0	
32-132-2	1395	1389	426	258	72935.0	
32-133-2	1405	1399	428	259	74140.0	
32-134-2	1415	1409	430	260	75355.0	
32-135-2	1425	1419	432	261	76580.0	
32-136-2	1435	1429	434	262	77815.0	
32-137-2	1445	1439	436	263	79060.0	
32-138-2	1455	1449	438	264	80315.0	
32-139-2	1465	1459	440	265	81580.0	
32-140-2	1475	1469	442	266	82855.0	
32-141-2	1485	1479	444	267	84140.0	
32-142-2	1495	1489	446	268	85435.0	
32-143-2	1505	1499	448	269	86740.0	
32-144-2	1515	1509	450	270	88055.0	
32-145-2	1525	1519	452	271	89380.0	
32-146-2	1535	1529	454	272	90715.0	
32-147-2	1545	1539	456	273	92060.0	
32-148-2	1555	1549	458	274	93415.0	
32-149-2	1565	1559	460	275	94780.0	
32-150-2	1575	1569	462	276	96155.0	
32-151-2	1585	1579	464	277	97540.0	
32-152-2	1595	1589	466	278	98935.0	
32-153-2	1605	1599	468	279	100340.0	
32-154-2	1615	1609	470	280	101755.0	
32-155-2	1625	1619	472	281	103180.0	
32-156-2	1635	1629	474	282	104615.0	
32-157-2	1645	1639	476	283	106060.0	
32-158-2	1655	1649	478	284	107515.0	
32-159-2	1665	1659	480	285	108980.0	
32-160-2	1675	1669	482	286	110455.0	
32-161-2	1685	1679	484	287	111940.0	
32-162-2	1695	1689	486	288	113435.0	
32-163-2	1705	1699	488	289	114940.0	
32-164-2	1715	1709	490	290	116455.0	
32-165-2	1725	1719	492	291	117980.0	
32-166-2	1735	1729	494	292	119515.0	
32-167-2	1745	1739	496	293	121060.0	
32-168-2	1755	1749	498	294	122615.0	
32-169-2	1765	1759	500	295	124180.0	
32-170-2	1775	1769	502	296	125755.0	
32-171-2	1785	1779	504	297	127340.0	
32-172-2	1795	1789	506	298	128935.0	
32-173-2	1805	1799	508	299	130540.0	
32-174-2	1815	1809	510	300	132155.0	
32-175-2	1825	1819	512	301	133780.0	
32-176-2	1835	1829	514	302	135415.0	
32-177-2	1845	1839	516	303	137060.0	
32-178-2	1855	1849	518	304	138715.0	
32-179-2	1865	1859	520	305	140380.0	
32-180-2	1875	1869	522	306	142055.0	
32-181-2	1885	1879	524	307	143740.0	
32-182-2	1895	1889	526	308	145435.0	
32-183-2						

Hydraulic Performance Curves



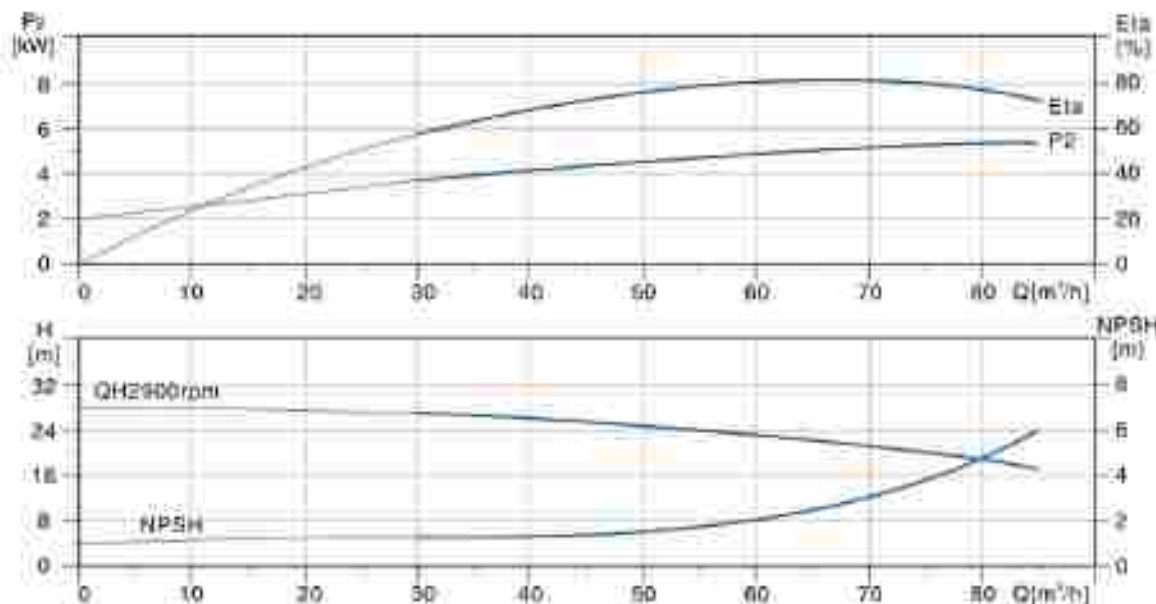
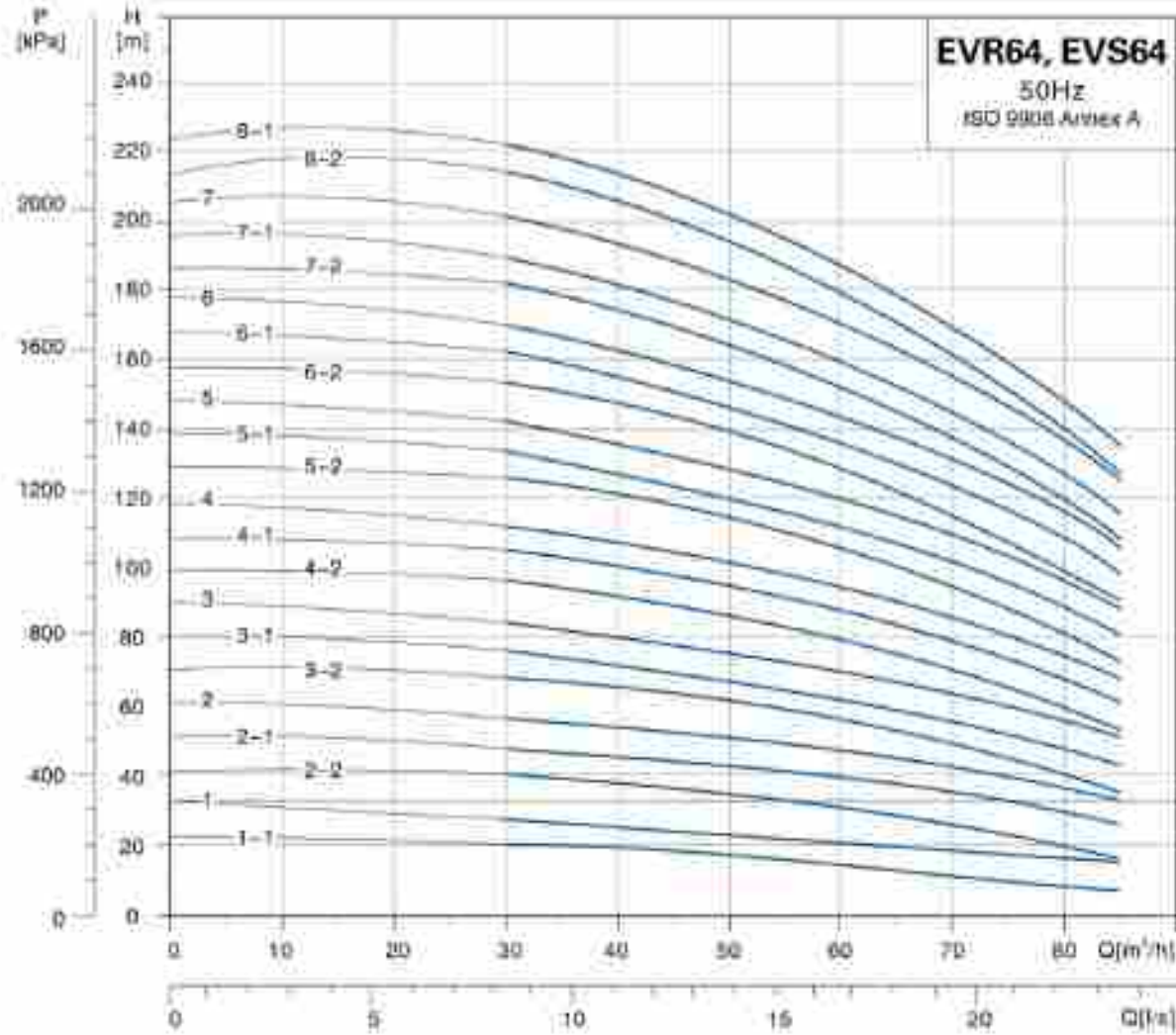
Dimension Drawing



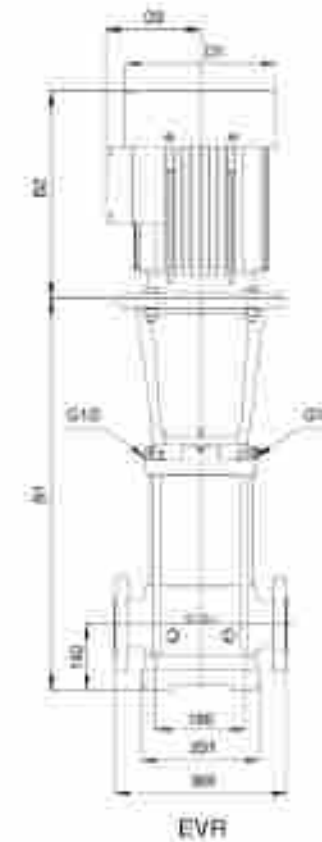
MODEL	DN FLANGE (EVR, EVS)		D1	D2	N.W. (kg)	Motor Mounting Code
	S1	S1+S2				
45-1-1	500	900	188	120	81	V1B
45-1	500	900	188	120	80.2	
45-2-2	640	1037	210	142	111.9	
45-2	640	1037	210	142	115.5	
45-3-2	800	1329	254	175	157.5	
45-3	800	1329	254	175	157.5	
45-4-2	970	1605	254	175	173.1	
45-4	970	1605	254	175	173.1	
45-5-2	990	1680	330	250	229	
45-5	990	1680	330	250	229	
45-6-2	1070	1670	300	280	264.9	
45-6	1070	1670	300	280	264.9	
45-7-2	1150	1830	420	300	325.2	
45-7	1150	1830	420	300	325.2	
45-8-2	1200	1910	420	300	328.2	
45-8	1200	1910	420	300	328.2	
45-9-2	1310	1960	420	300	370.9	
45-9	1310	1960	420	300	369	
45-10-2	1390	2070	420	300	392.5	
45-10	1390	2070	420	300	392.5	
45-11-2	1470	2185	470	330	416.3	
45-11	1470	2185	470	330	416.3	
45-12-2	1550	2280	470	330	419.1	
45-12	1550	2280	470	330	419.1	
45-13-2	1630	2345	470	330	421.9	

MODEL	POWER (kW)	Q (m³/h)	H (m)								
			25	30	35	40	45	50	55		
45-1-1	3	20	19.5	18	17	16	12.5	10.5			
45-1	4	24	23	22	20.5	18	17.5	15			
45-2-2	5.5	41	39	37	34	30.5	28.5	22			
45-2	7.5	48.5	48.5	44.5	42	39	35	31			
45-3-2	11	65	64	61	56.5	52	48	40			
45-3	11	73.5	71	68	64	60.5	54	47.5			
45-4-2	15	91	88	84	78.5	72	64.5	56			
45-4	15	98.5	95	91	85.5	78.5	72.5	64			
45-5-2	18.5	116	113	107	101	92.5	83.5	73			
45-5	18.5	124	120	115	108	100	91.5	81			
45-6-2	20	142	137	131	122	113	103	90			
45-6	20	153	144	138	130	121	111	98			
45-7-2	30	168	163	156	147	135	123	109			
45-7	30	176	171	163	155	144	132	116			
45-8-2	30	189	187	172	168	150	142	125			
45-8	30	200	194	187	178	164	149	134			
45-9-2	30	217	211	202	189	175	159	142			
45-9	37	228	218	210	199	185	170	151			
45-10-2	37	243	236	225	212	196	179	159			
45-10	37	251	240	233	220	205	187	166			
45-11-2	45	270	264	250	238	220	201	179			
45-11	45	281	272	261	248	230	209	187			
45-12-2	45	298	289	276	261	242	220	185			
45-12	45	306	296	284	268	251	229	204			
45-13-2	45	323	312	300	283	263	239	212			

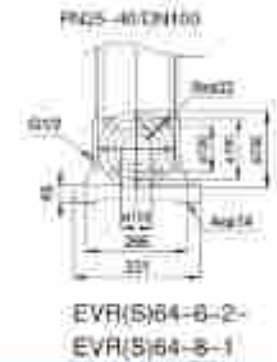
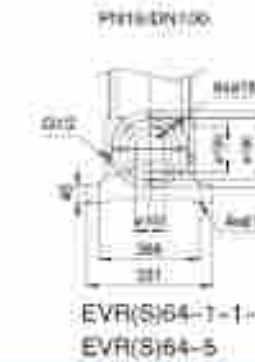
Hydraulic Performance Curves



Dimension Drawing

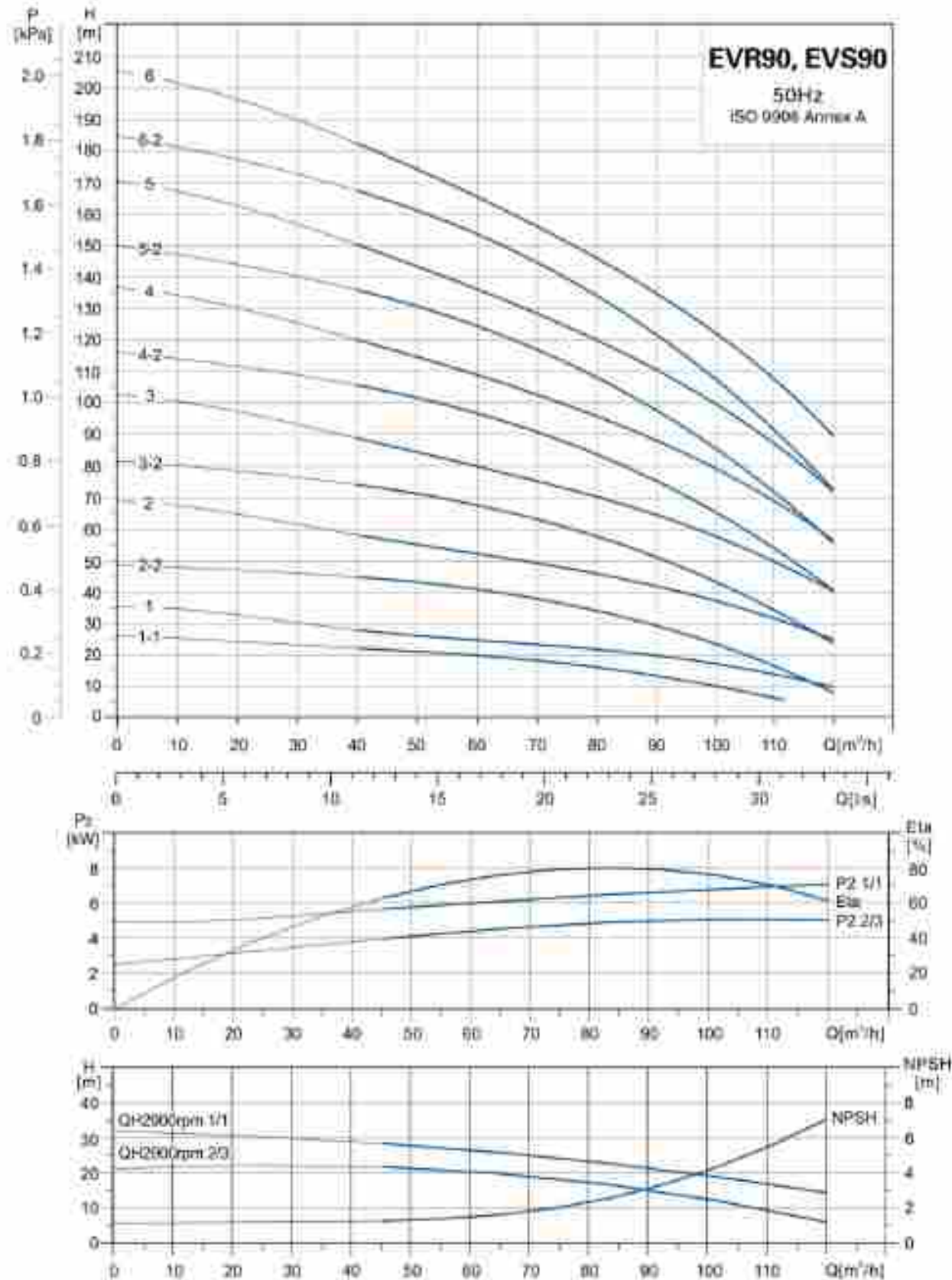


MODEL	DIN FLANGE/EVRT. EVSi		D1	D2	N.W (kg)	Mounting Code
	B1	B1+B2				
64-1-1	353	903	188	124	84.5	V18
64-1	367	989	210	142	110.2	
64-2-2	640	1042	210	142	112.4	
64-2-1	755	1254	254	175	136	
64-2	755	1254	254	175	156	
64-3-2	838	1337	254	175	171.6	
64-3-1	838	1337	254	175	173.9	
64-3	838	1338	330	240	201	
64-4-2	920	1480	330	250	223.9	
64-4-1	987	1620	380	280	261	
64-4	987	1620	380	280	261	
64-5-2	1009	1689	430	305	321.6	
64-5-1	1070	1882	430	305	321.6	
64-5	1089	1883	430	305	321.6	
64-6-2	1085	1765	430	305	324.8	
64-6-1	1085	1765	430	305	341.2	
64-6	1085	1765	430	305	341.2	
64-7-2	1168	1848	430	305	344.8	
64-7-1	1168	1848	430	305	344.8	
64-7	1168	1882	470	335	407.2	
64-8-2	1290	1947	470	335	410.7	
64-8-1	1290	1982	470	335	410.7	

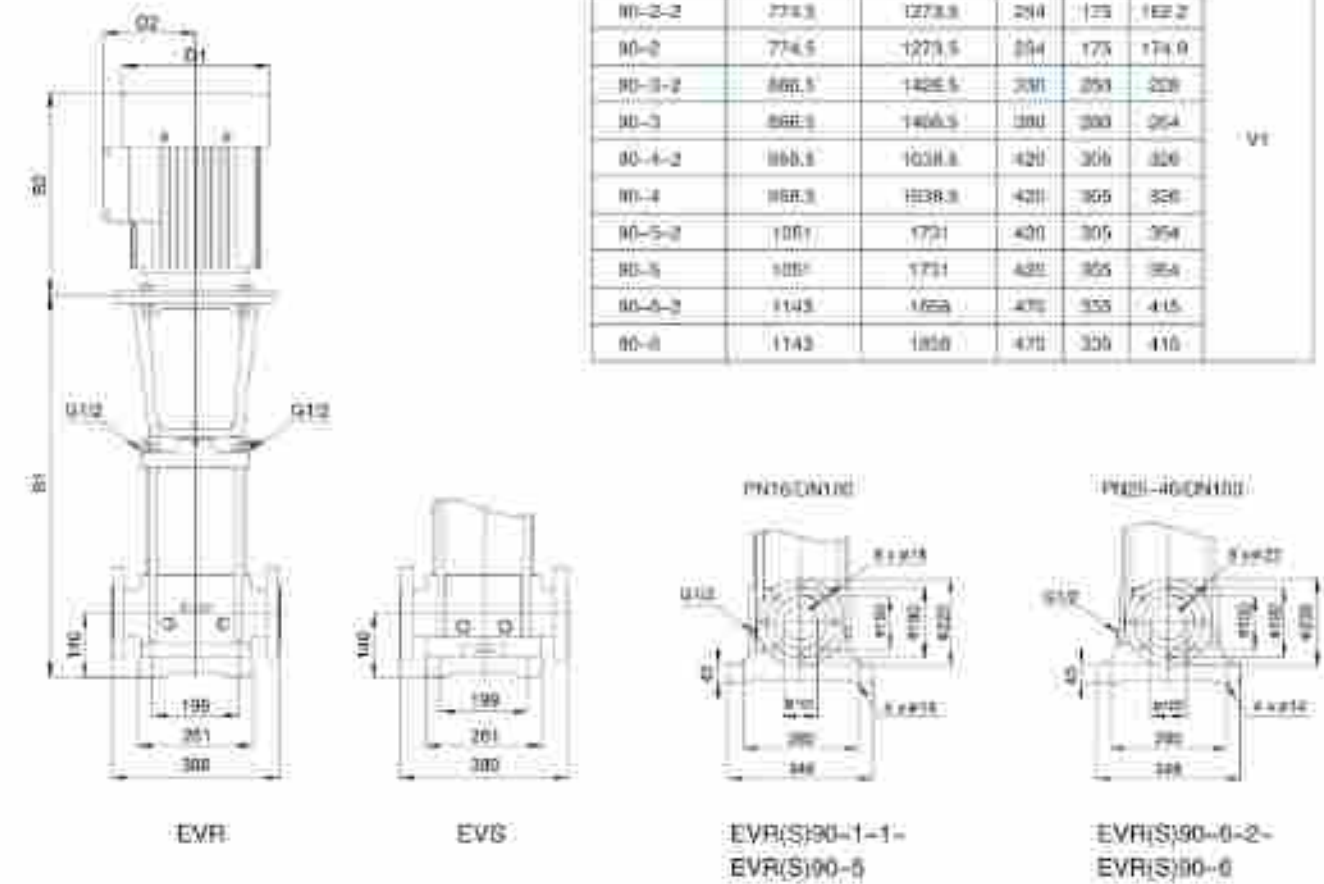


MODEL	POWER (kW)	Q(m³/h)	30	40	50	60	70	80
64-1-1	4	H(m)	20	18	17.5	15.5	12	8.5
64-1	5.5		27	25.5	23.5	21.5	20	17
64-2-2	7.5		40	38	35.5	31	25.5	19
64-2-1	11		48	45.5	42.5	38	34.5	29
64-2	11		55	52.5	49.5	44.5	41.5	36
64-3-2	15		68	65.5	60	54	48.5	40
64-3-1	15		78.5	72	67.5	60	55.5	47
64-3	18.5		85.5	80	76	68.5	64	56
64-4-2	18.5		96	92.5	87	78	70	59
64-4-1	22		104	100	94.5	82.5	75.5	67.5
64-4	22		112	107	102	89	85.5	74.5
64-5-2	30		126	122	115	100	94	80.5
64-5-1	30		134	129	122	106	102	88
64-5	30		141	136	129	115	109	96
64-6-2	30		154	148	140	122	115	99
64-6-1	37		162	158	148	129	124	108
64-6	37	170	163	155	135	131	116	
64-7-2	37	182	170	160	145	138	119	
64-7-1	37	190	183	173	151	145	126	
64-7	45	202	194	184	163	155	136	
64-8-2	45	214	207	196	172	163	140	
64-8-1	45	222	214	203	180	170	148	

Hydraulic Performance Curves



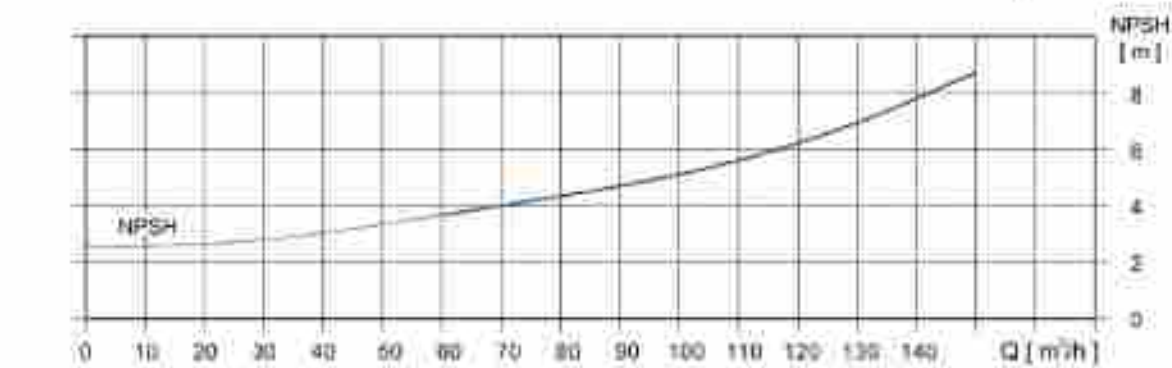
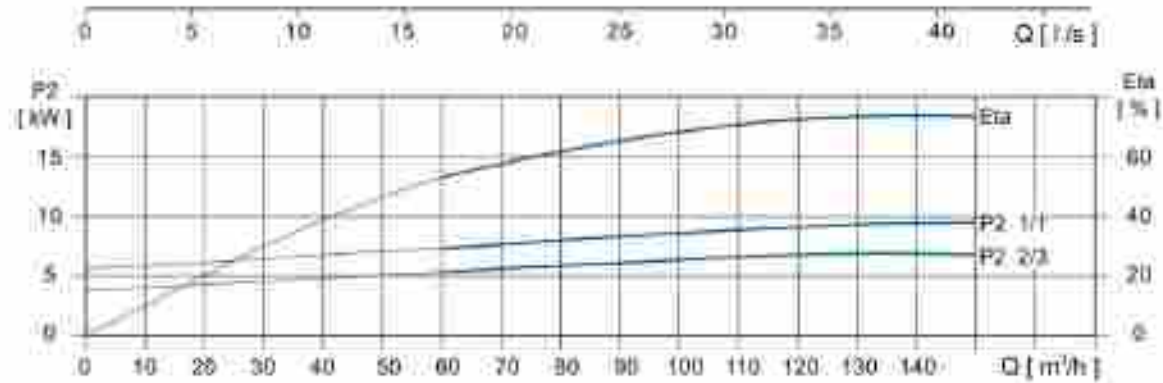
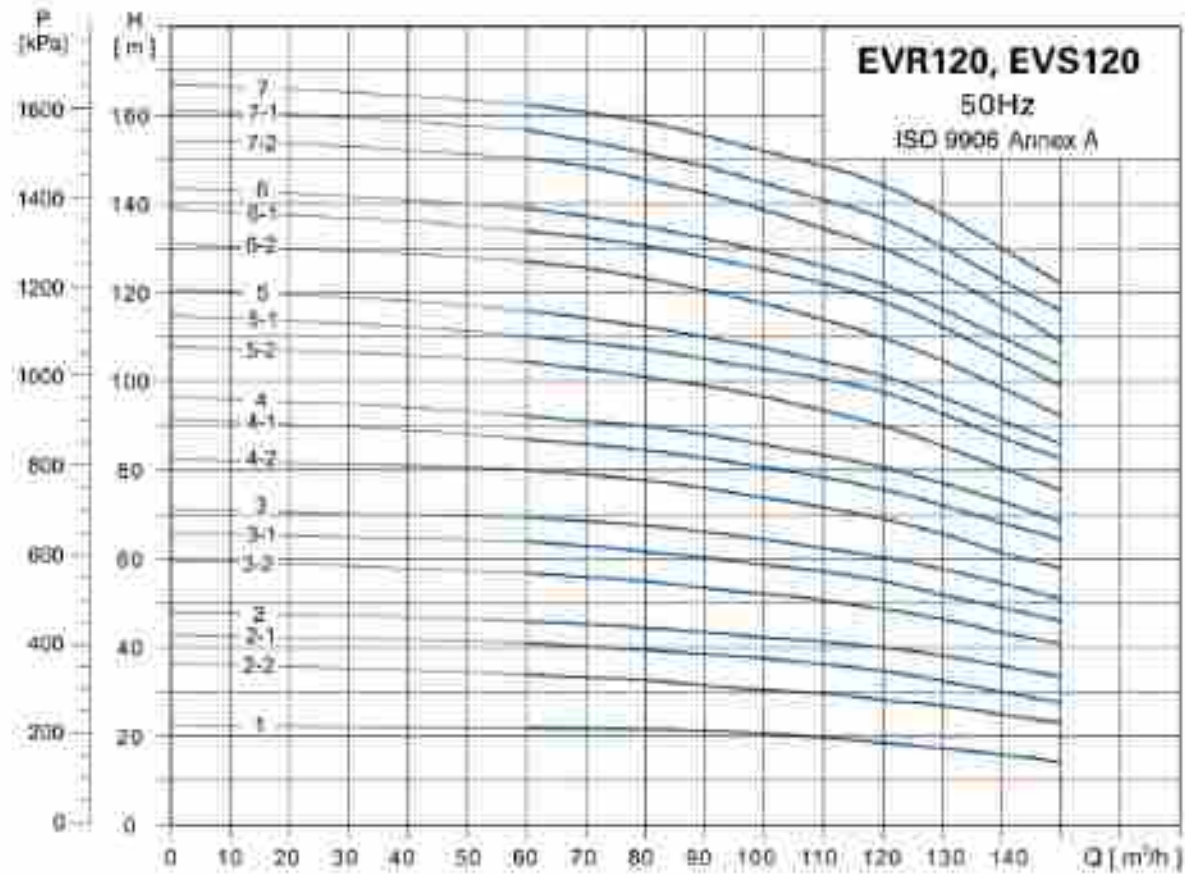
Dimension Drawing



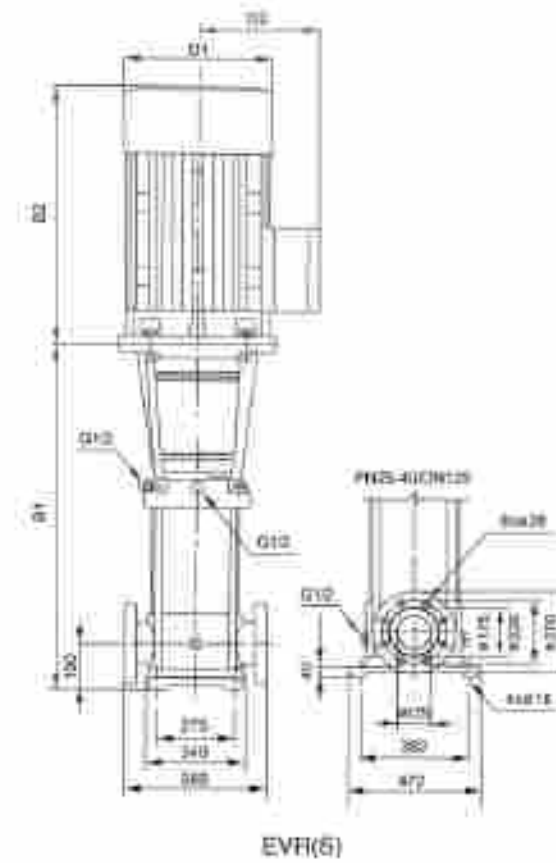
MODEL	DN FLANGE (EVR, EVS)		D1	D2	N.W. (kg)	Motor Mounting Code
	B1	B1+B2				
90-1-1	572.5	665.5	210	142	110	V1
90-1	572.5	665.5	210	142	121.2	
90-2-2	774.5	1273.5	254	175	162.2	
90-2	774.5	1273.5	254	175	174.9	
90-3-2	865.5	1425.5	330	251	228	
90-3	865.5	1425.5	330	250	254	
90-4-2	865.5	1638.5	420	306	326	
90-4	865.5	1638.5	420	305	326	
90-5-2	1081	1721	420	305	354	
90-5	1081	1721	420	305	354	
90-6-2	1145	1858	470	355	415	
90-6	1145	1858	470	355	416	

MODEL	POWER (kW)	Q (m³/h)	H (m)						
			50	60	70	80	90	100	110
90-1-1	5.5		21	25	18	18	14	10.5	9.1
90-1	7.5		26	25	23.5	22	20	17.5	14
90-2-2	11		43	41	38	34.5	30	24	17
90-2	15		58	52	40	40	42.5	37.5	31.5
90-3-2	18.5		71.5	68	63.5	58	51.5	44	35
90-3	22		84.5	80	75.5	70.5	65	58.5	50.5
90-4-2	30		102	97	91	84.5	76	65.5	54
90-4	30		114	109	103	96	88.5	79.5	69.5
90-5-2	37		131	125	118	100	98.5	86.5	72
90-5	37		144	136	129	121	111	101	87
90-6-2	45		161	154	145	135	123	108	91.5
90-6	40		175	168	159	146	136	123	106

Hydraulic Performance Curves



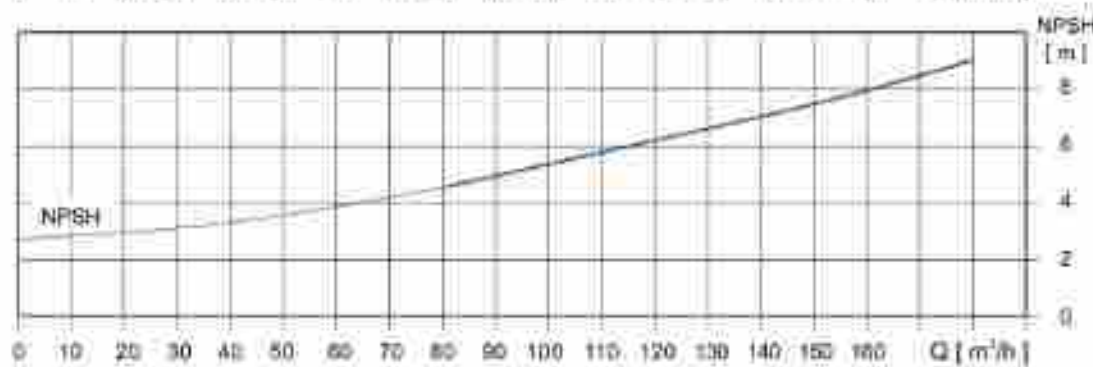
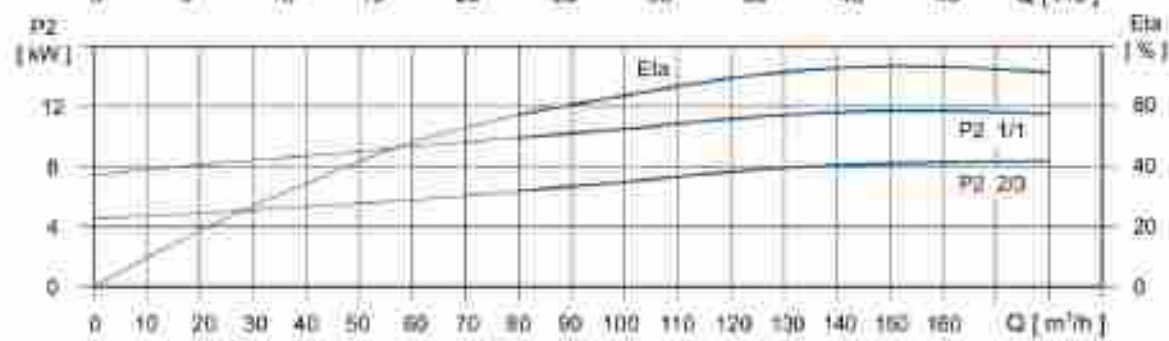
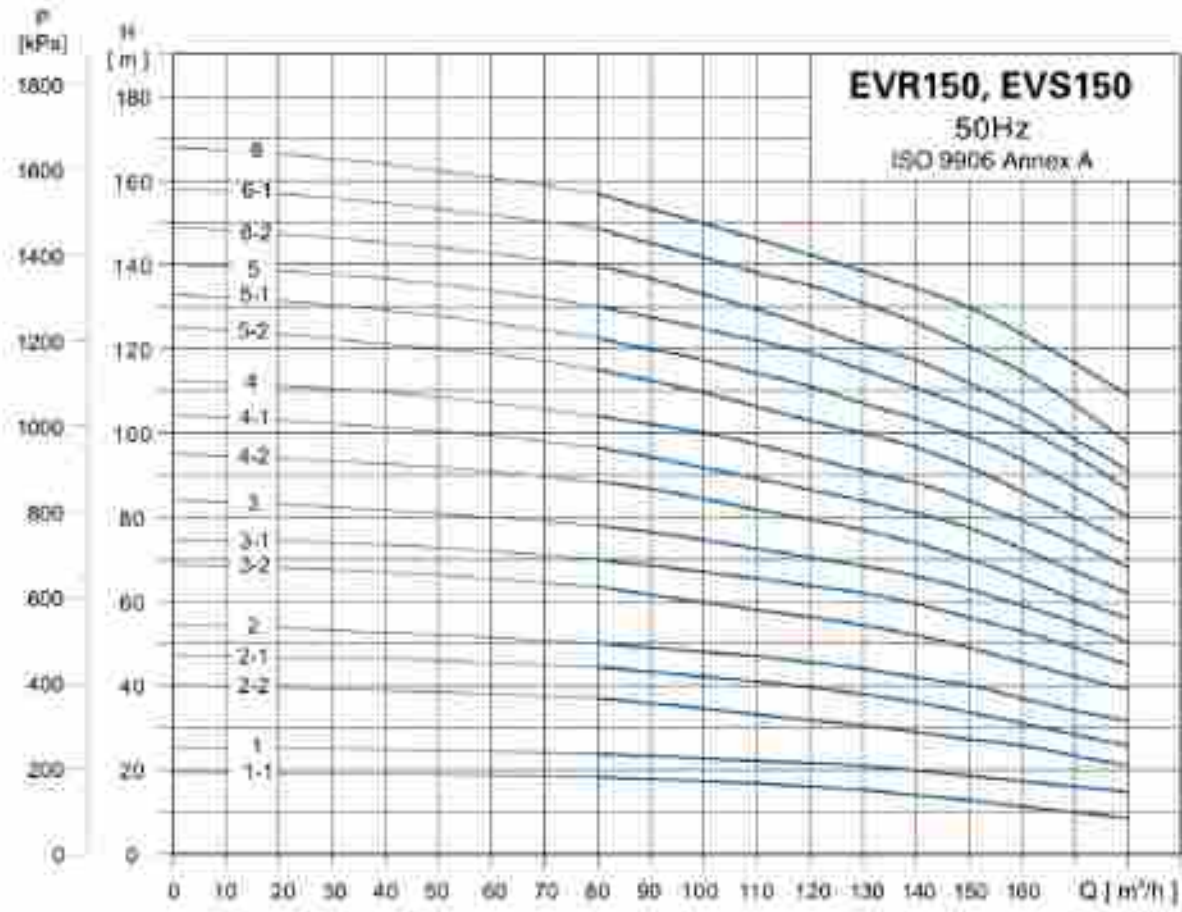
Dimension Drawing



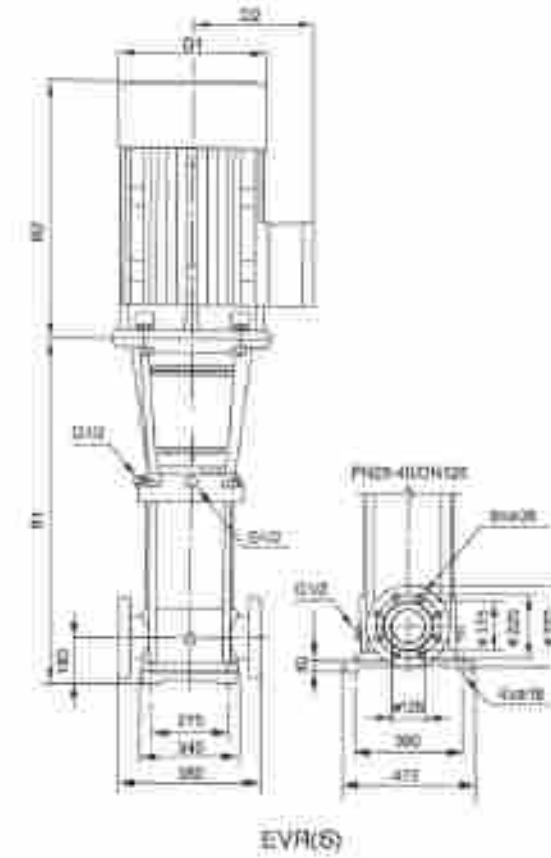
MODEL	DIN FLANGE (EVR, EVS)		D1	D2	N.W. (kg)	Motor Mounting Code
	B1	B1+B2				
120-1	840	1320	254	175	195	Y1
120-2-2	1000	1480	254	175	210	
120-2-1	1000	1550	300	200	250	
120-2	1000	1600	300	200	295	
120-3-2	1160	1840	400	305	320	
120-3-1	1160	1840	425	305	365	
120-3	1160	1840	425	305	390	
120-4-2	1320	2000	425	305	400	
120-4-1	1320	2000	425	305	400	
120-4	1320	2035	470	335	480	
120-5-2	1480	2185	470	335	470	
120-5-1	1480	2185	470	335	470	
120-5	1515	2295	510	370	575	
120-6-2	1670	2455	510	370	580	
120-6-1	1670	2455	510	370	580	
120-6	1670	2515	580	410	700	
120-7-2	1830	2675	580	410	715	
120-7-1	1830	2675	580	410	715	
120-7	1830	2675	580	410	715	

MODEL	POWER (kW)	Q(m³/h)	60	70	80	90	100	110	120	130	140	150
120-1	11	H(m)	22	21.8	21.8	21	20.5	19.5	18.5	17	16	15
120-2-2	15		34	33.5	33	31	30.2	30	28.5	27	25	24
120-2-1	16.5		41	40	39.5	38.5	37	36.5	34.5	32.5	30	27.5
120-2	22		46	45	44.5	43.5	42.4	41	40	38	36	33.5
120-3-2	30		57	56	55	53.5	52	51	49	46.5	43.5	41
120-3-1	30		64	63	62	60	58.5	57.5	55.5	52	49	46
120-3	30		69.5	68.5	67.5	66	64.4	62.5	61	57.5	54.5	51
120-4-2	37		80.5	79	78	76	73.5	72	69	66	61.5	58
120-4-1	37		87	86	84.5	82	80	78	76	72	68	64.5
120-4	45		92.5	91	90	88	85.5	83	81	77	73	68.5
120-5-2	45		104.5	103	101	99	96	93	90	85.5	80.5	75.5
120-5-1	45		110.5	109	107.5	105	102	100	97	92	86.5	83
120-5	55		115.5	114	113	110	107.5	104.5	101.5	96	91	86
120-6-2	55		128	125.5	123	121	117.3	113.5	110	104.5	98.5	92.5
120-6-1	55	134	132	130.5	127	124	121	118	111	105	100	
120-6	75	139	137	135	132	128.8	126	123	116	110	104	
120-7-2	75	151	148	145.5	143	138.6	134	130	123.5	116.5	109	
120-7-1	75	156.5	154	152	148.5	144.5	141	137.5	130	123	116.5	
120-7	76	162.5	160.5	158.5	156	151	146	145	137	129	123	

Hydraulic Performance Curves



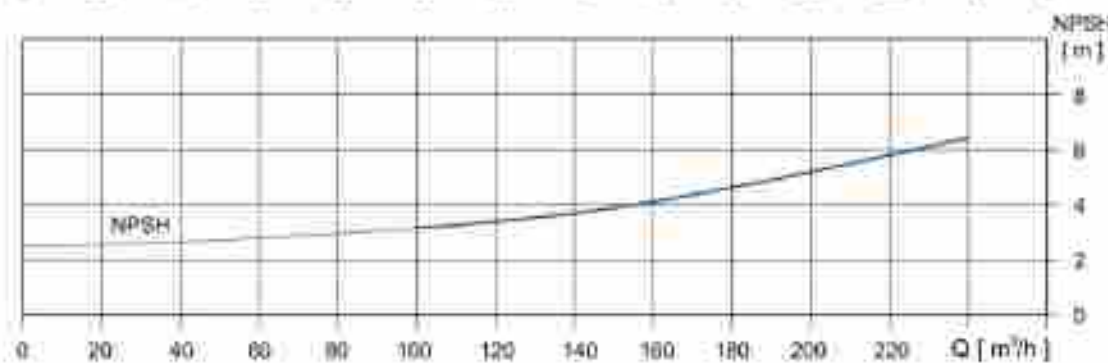
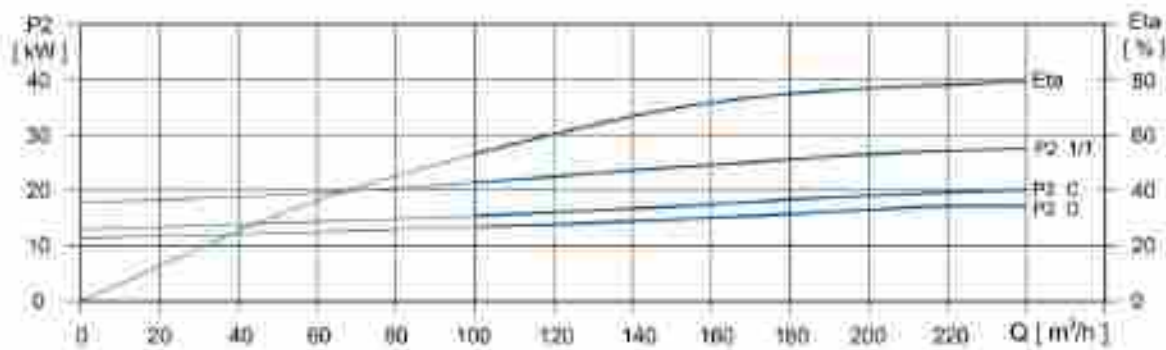
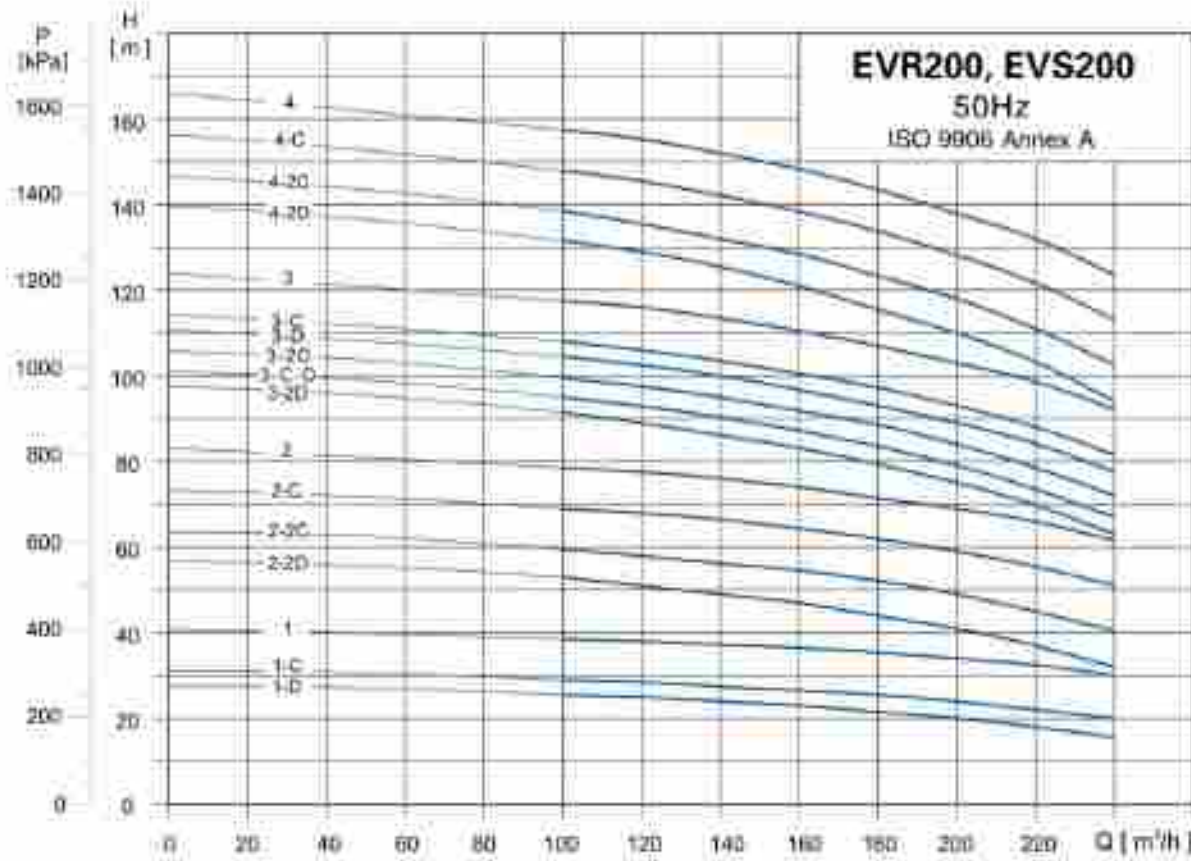
Dimension Drawing



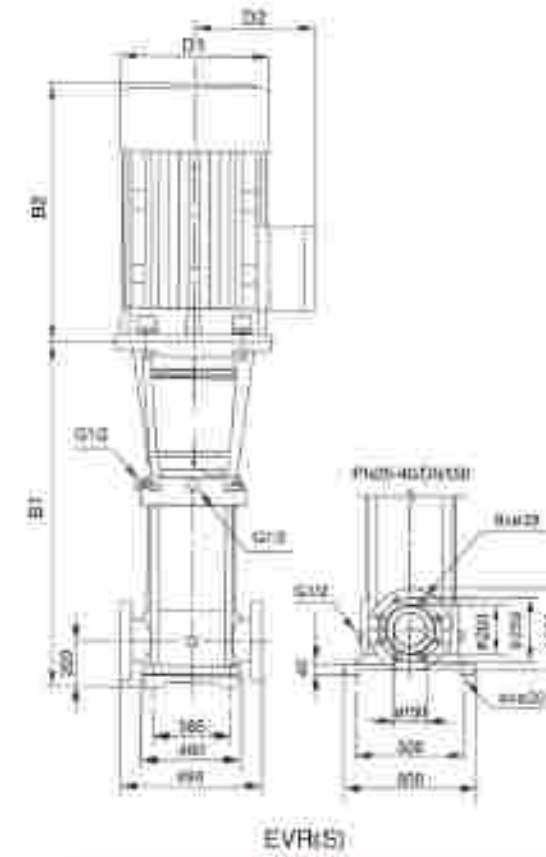
MODEL	DIN FLANGE (EVR - EVS)		D1	D2	N.W. (kg)	Motor Mounting Code
	B1	B1+B2				
150-1-1	840	1300	254	175	188	V1
150-1	840	1328	254	175	200	
150-2-2	1000	1500	330	250	250	
150-2-1	1000	1800	380	280	285	
150-2	1000	1880	420	305	317	
150-3-2	1180	1840	420	305	300	
150-3-1	1180	1840	420	305	380	
150-3	1180	1840	420	305	385	
150-4-2	1300	2006	470	305	400	
150-4-1	1320	2020	470	305	480	
150-4	1300	2130	510	370	500	
150-5-2	1510	2280	510	370	570	
150-5-1	1510	2350	580	410	600	
150-5	1510	2360	580	410	600	
150-6-2	1670	2515	580	410	700	
150-6-1	1670	2515	580	410	700	
150-6	1670	2515	580	410	700	

MODEL	POWER (kW)	Q (m³/h)	80	90	100	110	120	130	140	150	160	170	180
150-1-1	11	H(m)	18.3	17.8	17.3	17	16	15	14	12.5	11	10	8.5
150-1	15		24	23	22.5	22	21.5	20.5	20	18.5	17	16	15
150-2-2	18.5		37	36.5	34	33	32	31	29	27.5	26	23	21
150-2-1	22		44.3	43	42	40	39	38.5	37.5	35	33	30	27
150-2	30		50	49	48	47	45.5	44	42	40	37	34	32
150-3-2	30		63.5	61	59	57.5	56	54.5	53	49	45.5	42	39
150-3-1	30		70	68	67	65	63	62	60	56	53	49	46
150-3	37		79	78.5	75	73	70.5	68	66	63	59	55	50.5
150-4-2	37		89	87	84	81.5	79	77	74.5	70.5	66.5	60	56
150-4-1	45		96.5	94	91.5	89	86.5	84	81.5	77	72.5	67	62
150-4	45		104	102	100	97	95	91	88	84	78.5	74	68
150-5-2	55		115.5	112	109	106	102.5	100	97	92	86	79	73.5
150-5-1	55		122.5	119.5	117	113.5	111.5	107.5	104.5	99	93.5	87	80
150-5	75		130	127.5	125	121	119	115	111.5	106.5	101	94.5	88.5
150-6-2	75		140	137	133	130	126	121	116	112	100	96	91
150-6-1	75		148.5	145	141.7	137.5	135	131	127	120.5	114.5	100.5	97.5
150-6	75		157	153	149	145	140	139.5	137	130	123.5	116	109

Hydraulic Performance Curves



Dimension Drawing



MODEL	DIN FLANGE(EVR: EVS)		D1	D2	N.W (kg)	Motor Mounting Code
	B1	B1+B2				
200-1-D	907	1487	330	200	311	V1
200-1-C	907	1507	380	200	347	
200-1	907	1567	430	305	403	
200-2-20	1101	1781	420	305	407	
200-2-2C	1101	1816	470	305	454	
200-2-C	1131	1916	510	370	505	
200-2	1131	1916	510	370	508	
200-3-20	1329	2170	580	410	748	
200-3-C-2	1325	2170	580	410	748	
200-3-2C	1329	2170	580	410	748	
200-3-D	1329	2170	580	410	748	
200-3-C	1325	2170	580	410	748	
200-3	1325	2220	580	410	817	
200-4-20	1519	2414	645	500	850	
200-4-2C	1519	2519	645	500	1180	
200-4-C	1519	2519	645	500	1180	
200-4	1519	2579	645	500	1180	

MODEL	POWER (kW)	Q(m³/h)	100	120	140	160	180	200	220	240
200-1-D	18.5	H(m)	25.5	25	24	23	21.5	20	18	15.5
200-1-C	22		29	28.5	27.5	26.5	25.5	24	22	20
200-1	30		36.5	36	37.5	36.5	35	34	32.5	30
200-2-20	37		53	51	49	47	44	41	37	30
200-2-2C	45		58.5	58	56	54	52.5	48	44.5	40.5
200-2-C	55		69	68	66	64	62	59	55.5	51
200-2	55		78.5	77.5	76	74	71.5	69	66	61.5
200-3-20	75		91.5	89	86.5	83.5	79	75	70	63
200-3-C-2	75		96	93	90	87	83.5	79	73.5	67
200-3-2C	75		99.5	97.5	94.5	91.5	89	84	78.5	72
200-3-D	75		104.5	102.5	100	97	93	88	84.5	77.5
200-3-C	75		106	106	103.5	100.5	97.5	93	88	81.5
200-3	90		117.5	116	113.5	110.5	107	103	99	92
200-4-20	90		131.5	129	125.5	121	115.5	110	103.5	94
200-4-2C	110		138.5	136	132	128	124	118	111	102.5
200-4-C	110		146	145.5	142.5	138	134	128	122	113
200-4	110		157.5	155.5	152.5	148	143.5	138	132.5	123.5



ROS

Application

- RO System, ultra-filtration systems, distillation systems, separators, swimming pools.
- Water supply & drainage for high-rise buildings, filtration and transfer at waterworks, pressure boosting in main pipe.
- Washing and cleaning systems, boiler feeding, cooling water circulation, water treatment systems and auxiliary system.
- Sprinkler irrigation, drip-feed irrigation.
- Food & beverage industry.
- Fire fighting system.

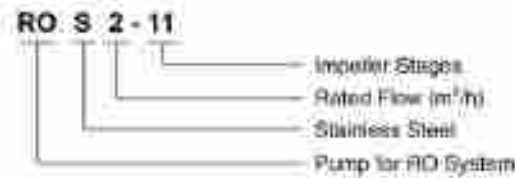
Operating Conditions

- Low viscosity, non-inflammable and non-explosive liquids not containing solid particles or fibers. The liquids must not chemically attack the pump materials. When pumping liquids with a density or viscosity is higher than that of water, a motor with a higher output power rating shall be used.
- Liquid temperature: -15°C → +70°C
- Flow ranges: 0.7-9 m³/h
- Liquid pH value: 4-10
- Max. ambient temperature: +40°C
- Max. operation pressure: 25 bar
- Altitude: up to 1000 m

Motor

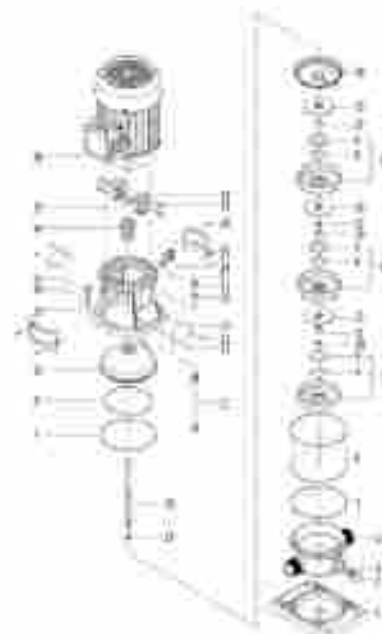
- IE 2 motor (except 4kw motor)
- Totally enclosed & Fan-cooled
- Protection class: IPX4

Identification Codes

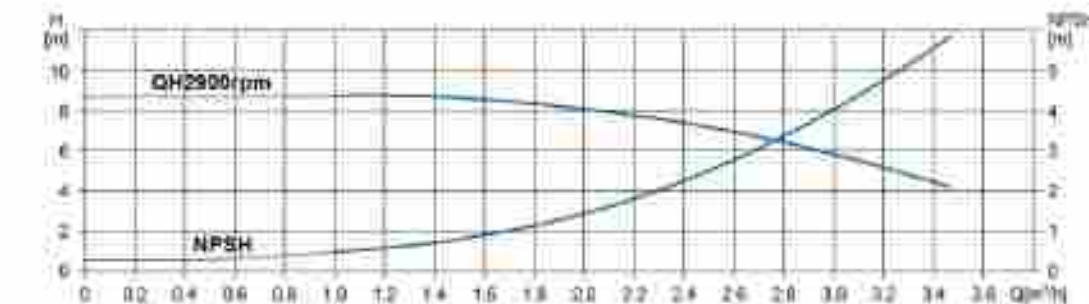
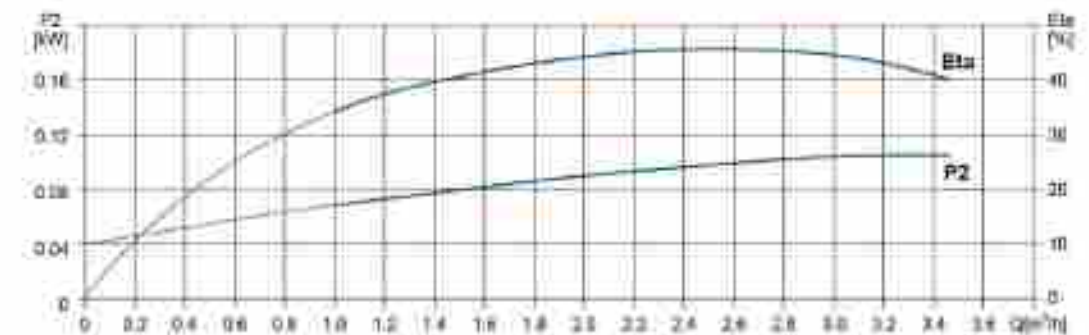
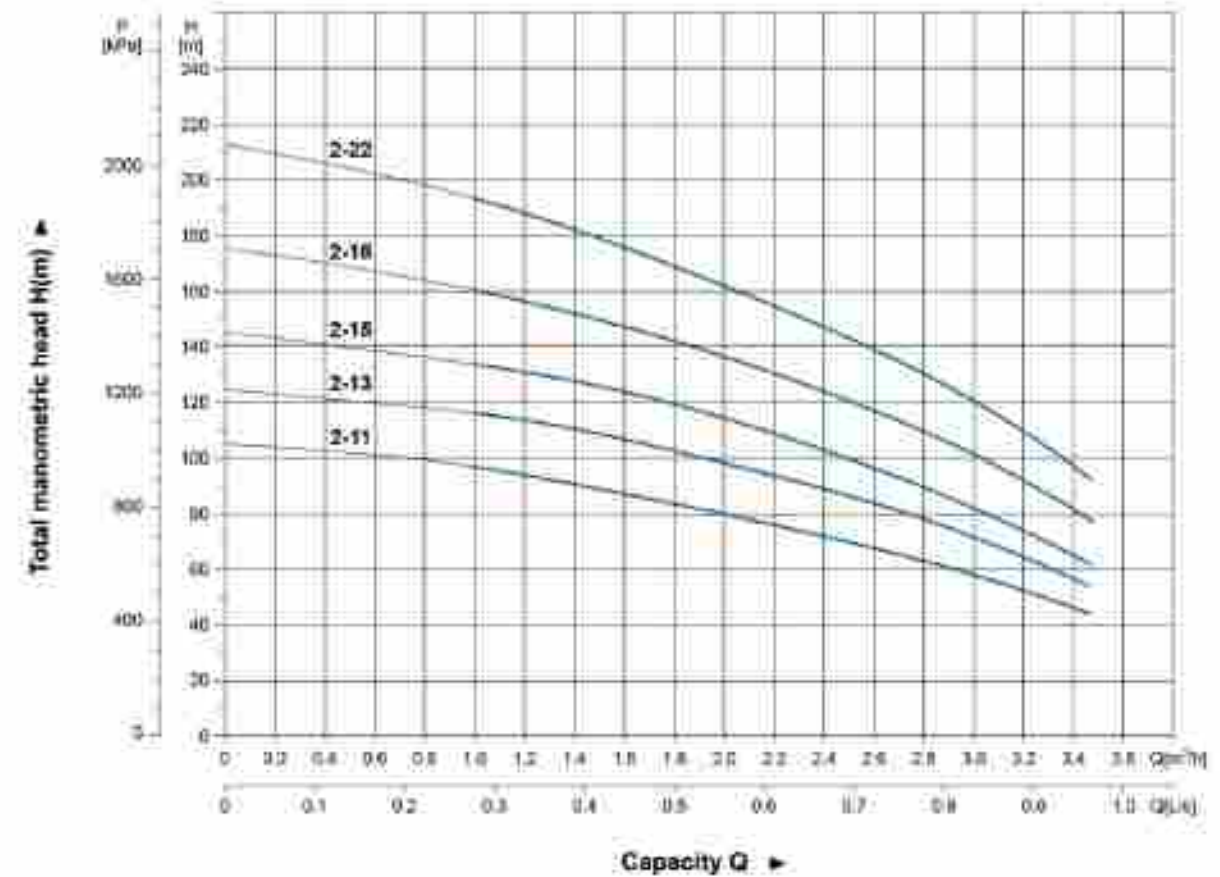


Materials Table

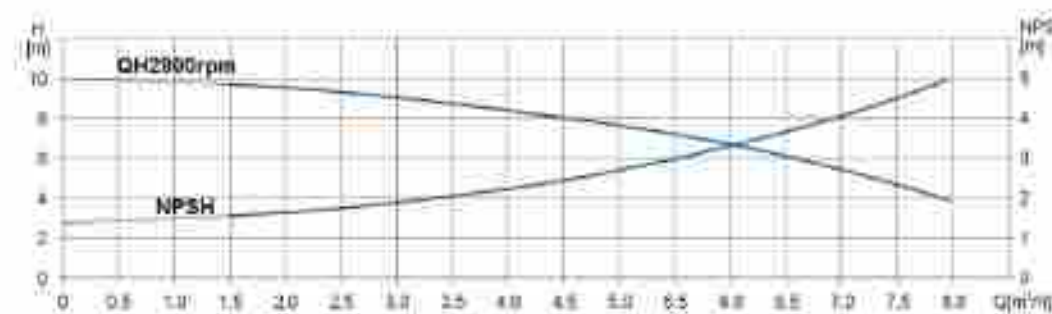
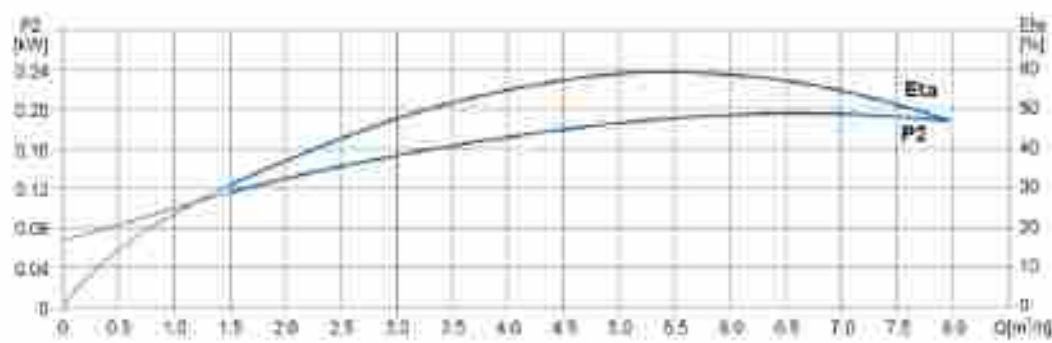
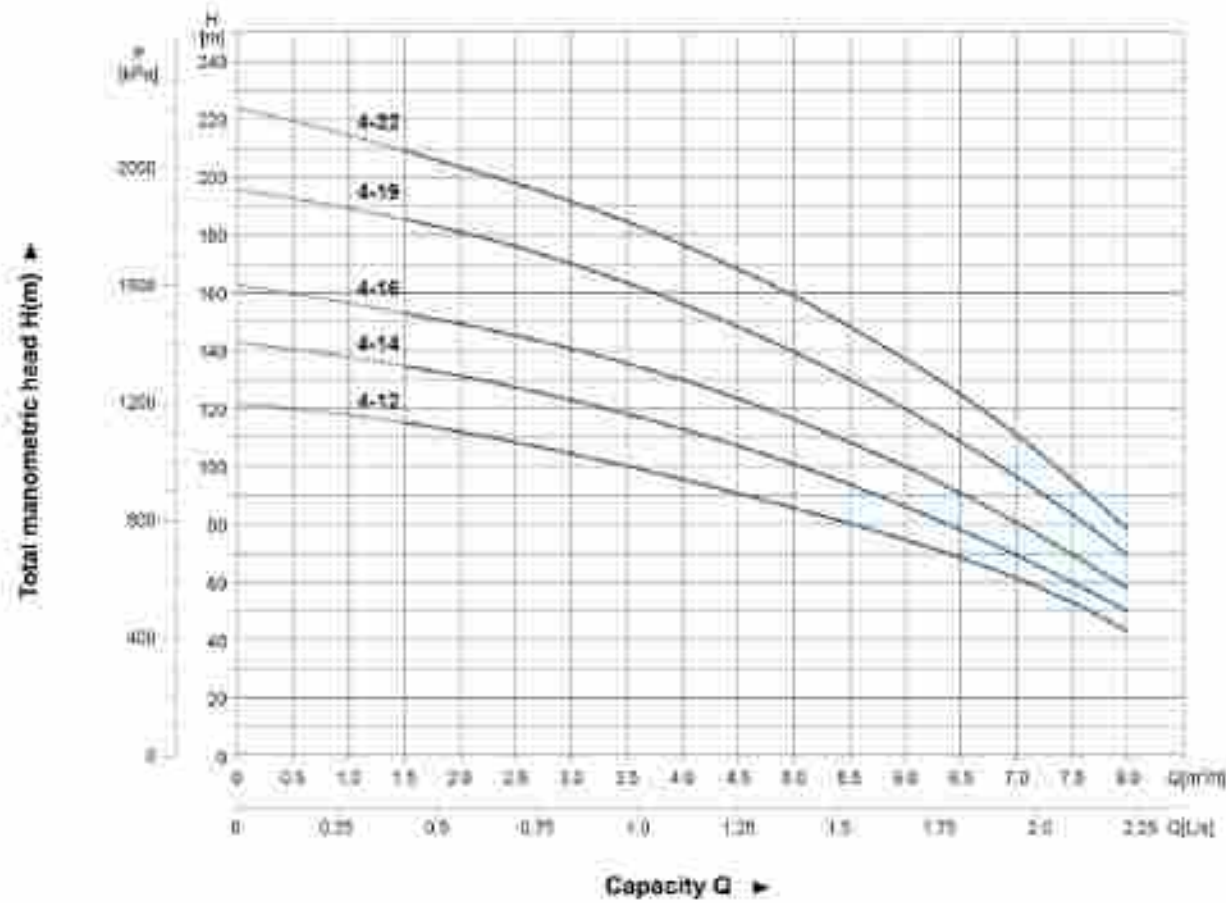
No.	Part	No.	Part
1	Base plate	20	Shaft
2	Retainer plug	21	Nut
3	O-ring	22	Tension Ring
4	O-ring	23	Nameplate
5	Pump barrel	24	Flat washer
6	Base	25	Nut
7	Primary diffuser	26	Air release plug
8	Sealing ring	27	Sliding plate
9	Exp. ring	28	Bot
10	Nut	29	Bot
11	Shaft sleeve	30	Coupling
12	Impeller	31	Wave spring
13	Diffuser with bearing	32	Pump cover
14	Bearing	33	Motor base
15	Shaft sleeve	34	Bot
16	Intermediate diffuser	35	Spring washer
17	Shaft sleeve	36	Mechanical seal
18	Final diffuser	37	Pin
19	Loading sleeve	38	Motor



Hydraulic Performance Curves



Hydraulic Performance Curves

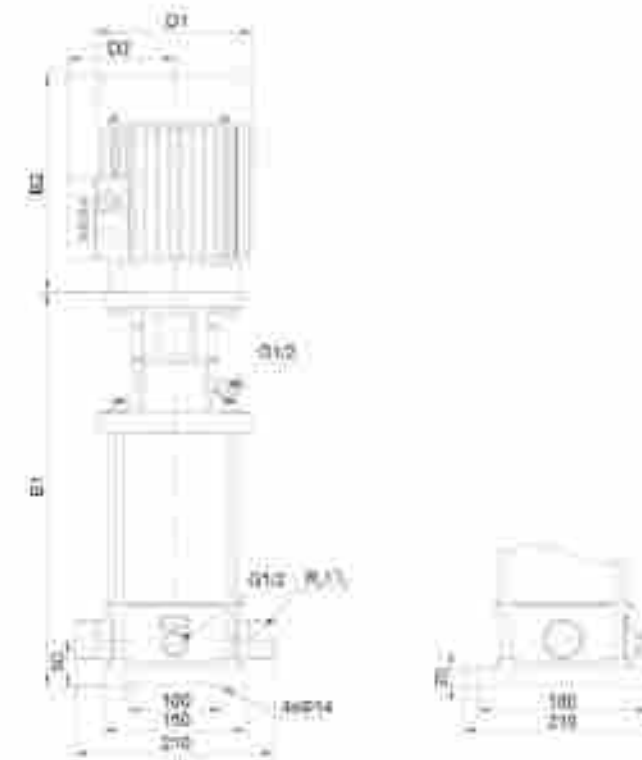


Technical Data

Model	Power (kW)	Q(m³/h)	1	1.2	1.6	2	2.5	2.8	3.2	3.5
ROS2-11	1.1	H(m)	86	95	99	82	71.5	64	54	44
ROS2-13	1.5		110	114	106	98	86.5	78	65	52
ROS2-15	1.5		134	130	123	112	98	90	73	60
ROS2-16	2.2		161	157	148	138	122	108	91	76
ROS2-22	2.2		197	192	180	165	145	130	110	90

Model	Power (kW)	Q(m³/h)	1.2	2	3	4	5	6	7	8
ROS4-12	2.2	H(m)	114	108	104	96	85	75	57	41
ROS4-14	3		136	128	122	114	101	90	89	48
ROS4-16	3		152	144	140	129	115	102	78	55
ROS4-19	4		163	171	168	155	137	123	95	67
ROS4-22	5		211	210	192	177	160	139	108	79

Dimension



Model	B1	B1+B2	D1	D2
ROS2-11	422	679	164	119
ROS2-13	458	715	164	119
ROS2-15	494	751	164	119
ROS2-16	548	805	164	119
ROS2-22	620	877	164	119
ROS4-12	548	805	164	119
ROS4-14	606	919	175	119
ROS4-16	660	973	175	119
ROS4-19	741	1059	194	128
ROS4-22	822	1140	194	128



EVP

Application

- Water supply: Pressure boosting for main pipes and high-rise buildings
- Industrial pressure boosting: Water system, cleaning system, high pressure
- Washing system and firefighting system
- Pressure boosting for pressure tank, sprinkling irrigation and toilet irrigation
- Air conditioner, cooling system and industrial cleaning

Features

- Economic vertical multistage pumps
- Applicable for a wide scope of different temperatures, flow rates and pressure ranges
- Water inlet and outlet can be rotated for proper assembly in accordance with installation requirement
- Easy installation and maintenance
- Advanced hydraulic model design, featuring stable operation and high efficiency
- Cast iron water inlet and outlet with special anti-rust treatment
- High-strength engineering plastic flow passage components
- Reliable stainless steel welded shaft

Working Conditions

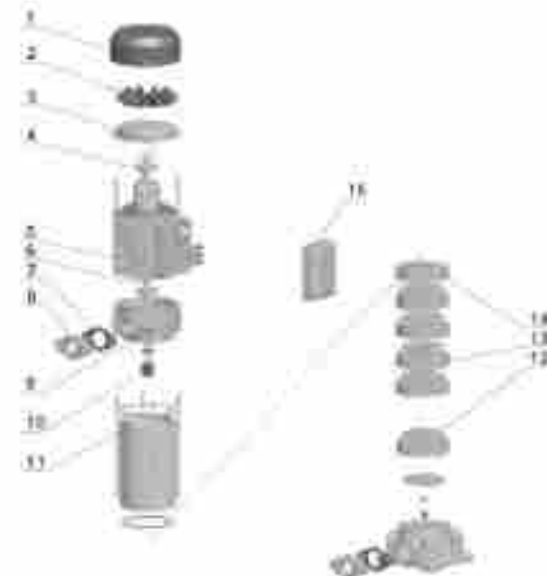
- Liquid temperature: +5°C ~ 60°C
- Max. ambient temperature: +40°C
- Max. pressure: 15 bar
- Altitude: up to 1000 m
- Standard voltage: Single phase: 220-240V/50Hz
Three-phase: 380-415V/50Hz

Identification Codes

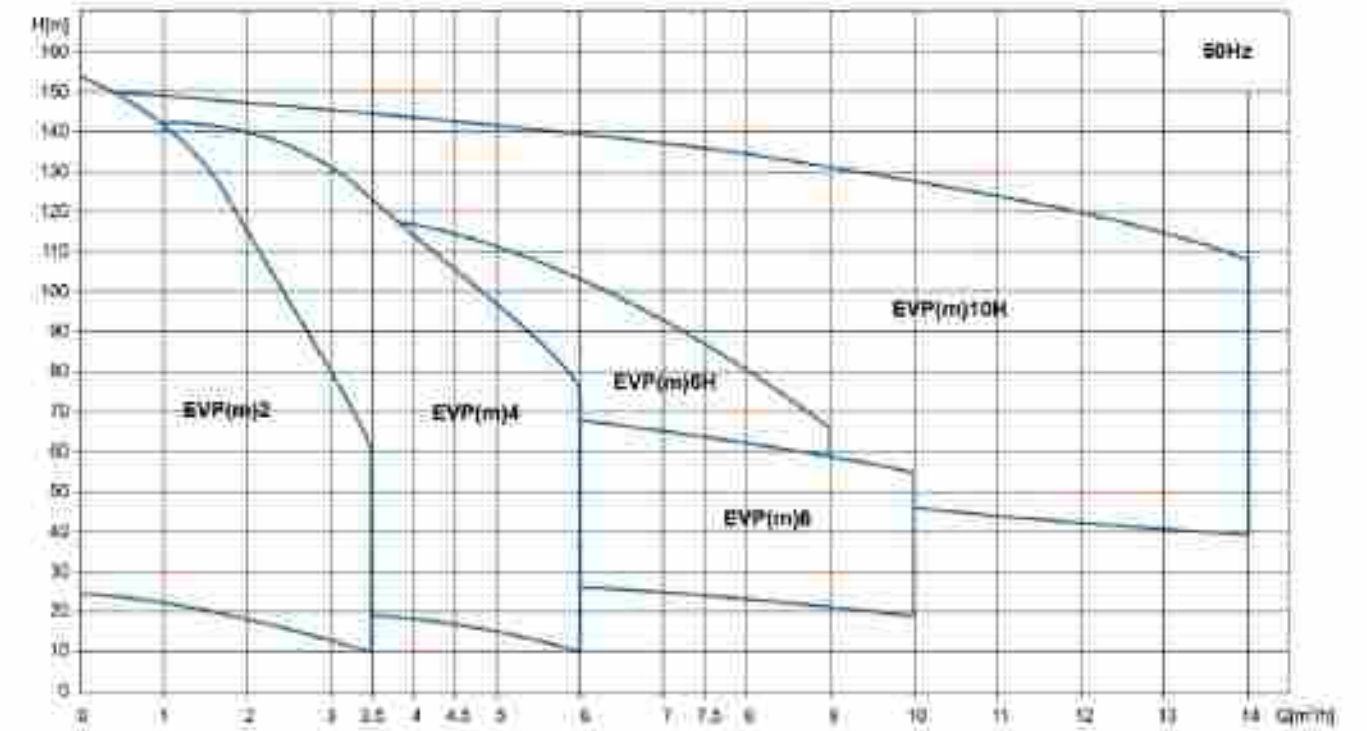


Materials Table

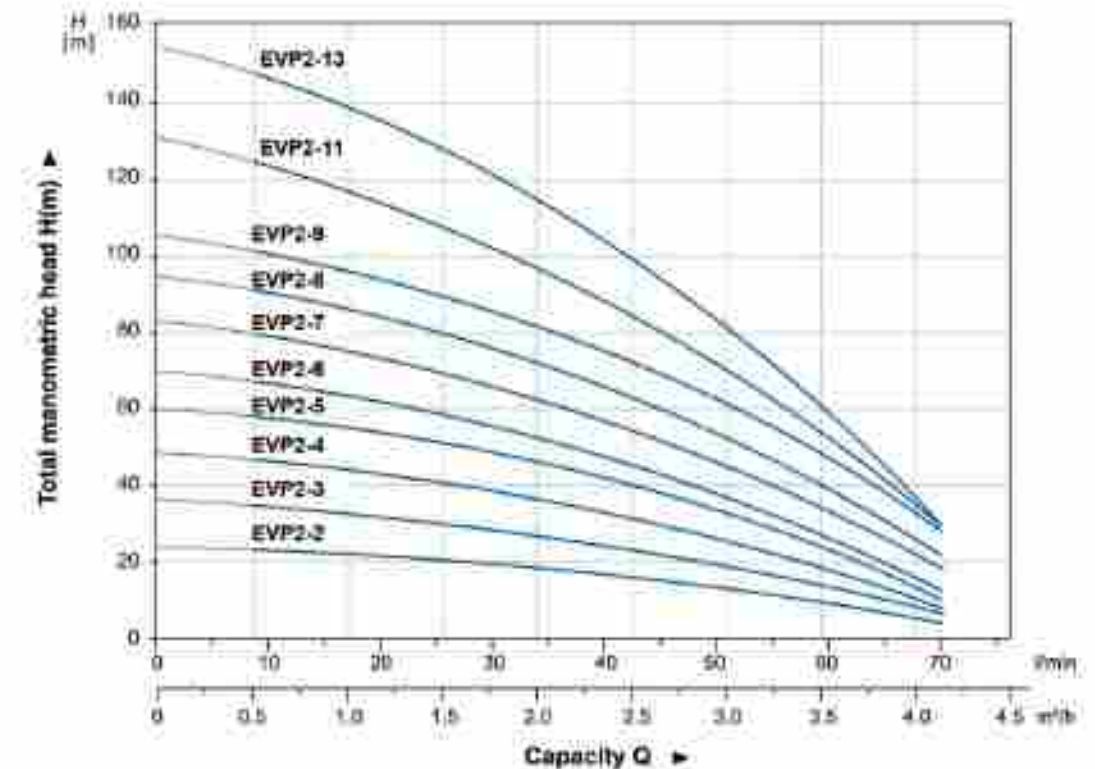
No.	Part	Material
1	Fan cover	GGF
2	Fan	PP
3	Riser cover	Cast Iron
4	Bearing	
5	Stator	
6	Rotor	
7	Gasket	Rubber
8	Flange	Cast Iron
9	Motor bracket	Aluminum
10	Mechanical seal	Ceramic/Carbon
11	Pump base	AlSi10Mg
12	Impeller	Plastic
13	Diffuser	Plastic
14	Last stage diffuser	Plastic
15	Capacitor box	Plastic



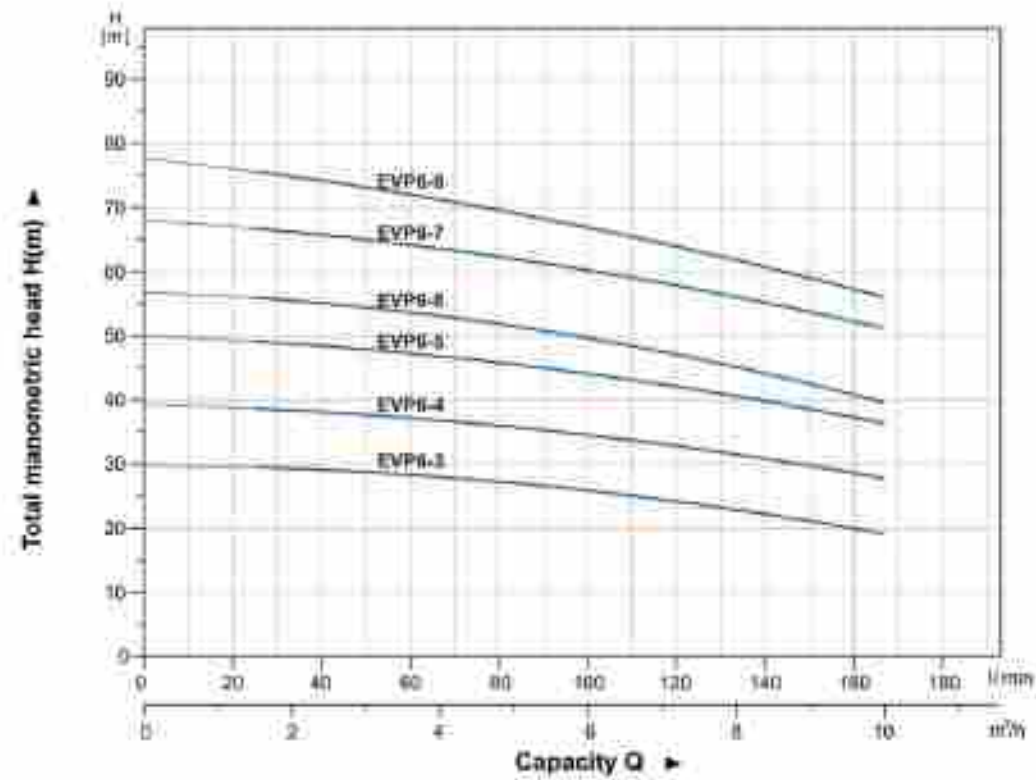
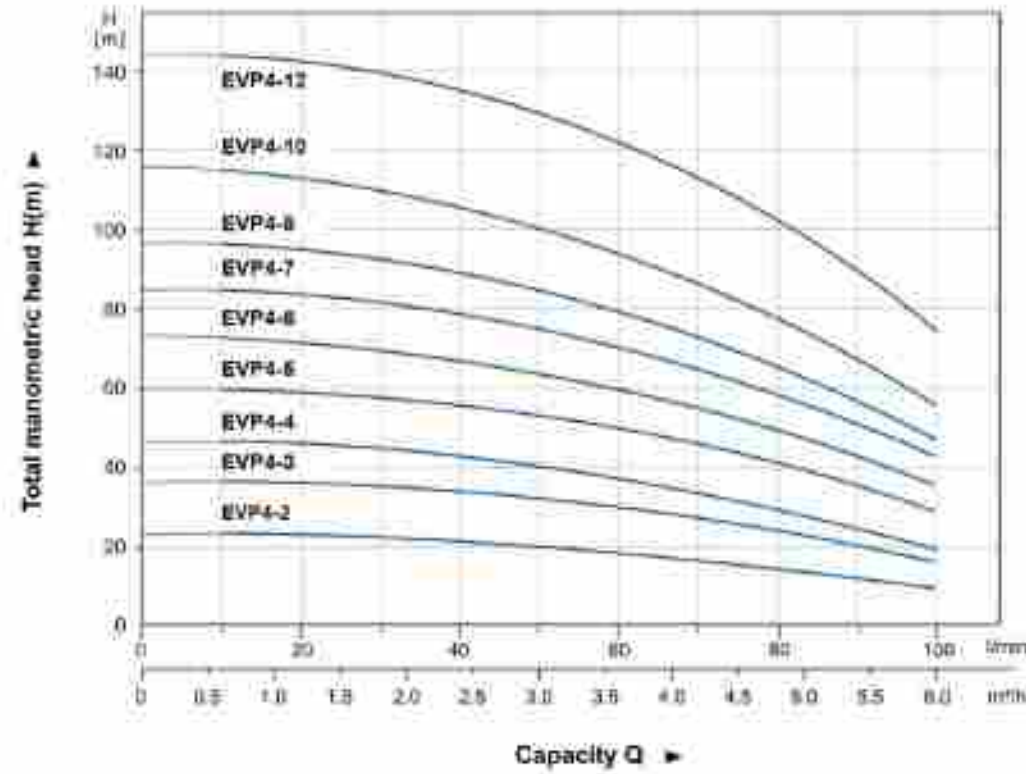
Scope of Performance



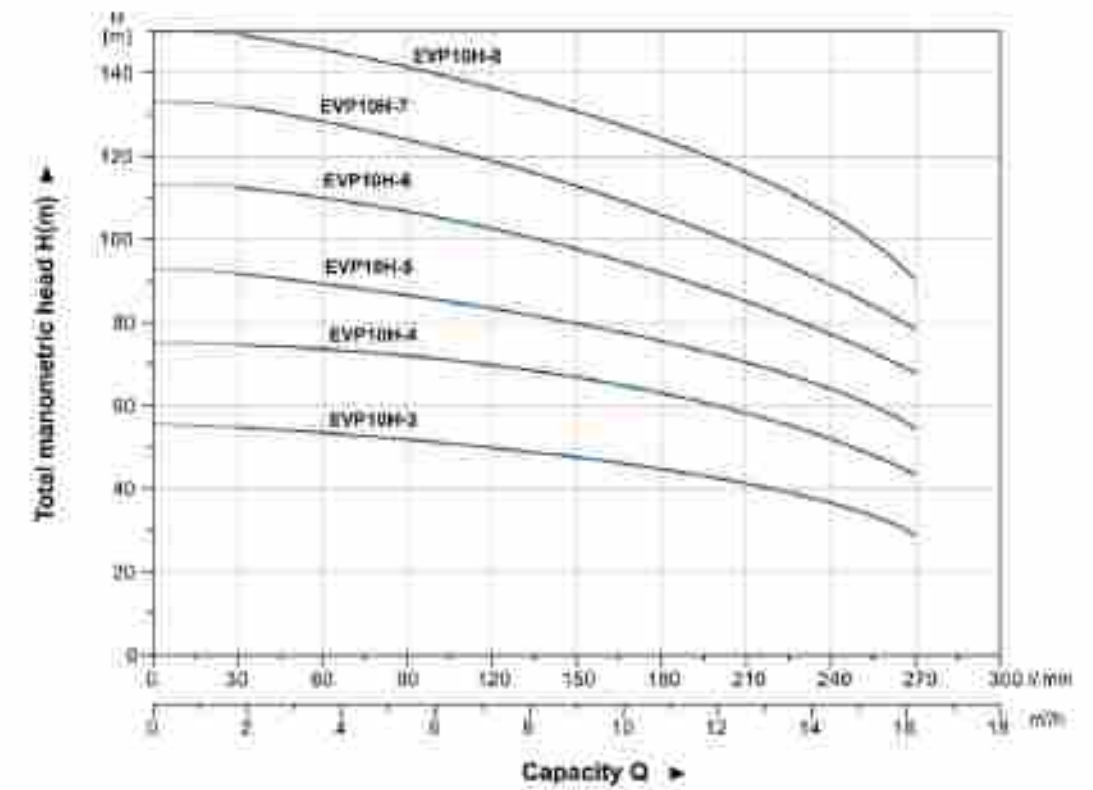
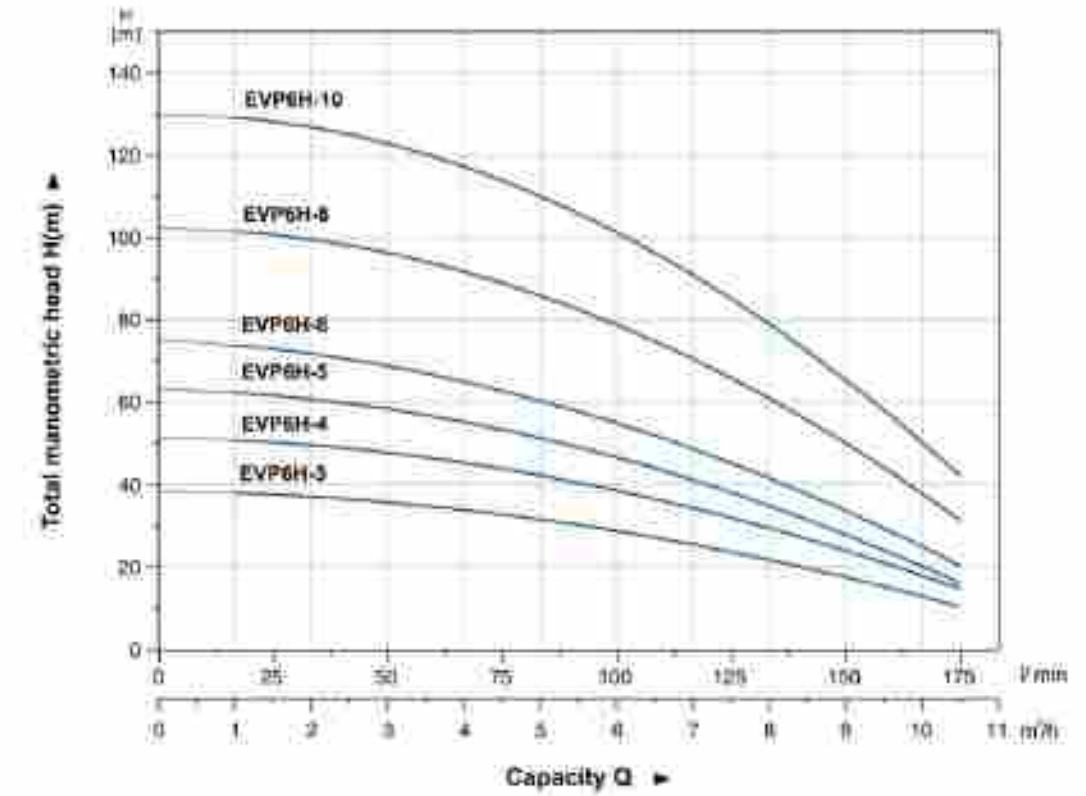
Hydraulic Performance Curves



Hydraulic Performance Curves



Hydraulic Performance Curves



Technical Data

Model		Power		Q (m³/h)	0	1	2	3	4
Single-phase	Three-phase	kW	HP	Q (l/min)	0	16.7	33.3	50	66.7
EVPH-2	EVPH-2	0.37	0.5	H (m)	24	23	18	12	6
EVPH-3	EVPH-3	0.55	0.75		30	23	28	20	9
EVPH-4	EVPH-4	0.75	1.0		36	30	36	26	11
EVPH-5	EVPH-5	1.0	1.5		39	37	44	33	13
EVPH-6	EVPH-6	1.5	2.0		44	40	50	37	16
EVPH-7	EVPH-7	2.0	2.8		48	45	56	41	19
EVPH-8	EVPH-8	2.8	3.8		51	48	60	44	21
EVPH-9	EVPH-9	3.8	5.2		54	51	64	47	23
EVPH-11	EVPH-11	5.5	7.5		57	54	68	50	25
-	EVPH-13	7.5	10.0		60	57	72	53	27

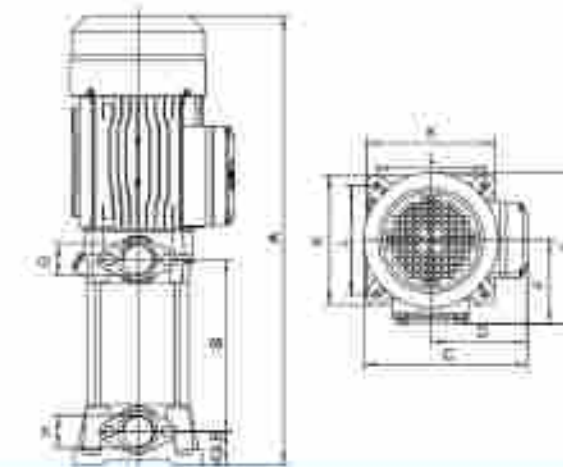
Model		Power		Q (m³/h)	0	1	2	3	4	5	6
Single-phase	Three-phase	kW	HP	Q (l/min)	0	16.7	33.3	50	66.7	83.3	100
EVPH-2	EVPH-2	0.37	0.5	H (m)	24	23	22	21	18	15	10
EVPH-3	EVPH-3	0.55	0.75		31	28	24	20	14	11	8
EVPH-4	EVPH-4	0.75	1.0		37	34	30	26	20	16	12
EVPH-5	EVPH-5	1.0	1.5		41	38	34	29	23	18	14
EVPH-6	EVPH-6	1.5	2.0		44	41	37	31	25	20	15
-	EVPH-7	2.0	2.8		47	44	40	34	27	21	16
-	EVPH-8	2.8	3.8		50	47	43	36	29	23	18
-	EVPH-10	3.8	5.2		53	50	46	39	31	25	20
-	EVPH-12	5.5	7.5		56	53	49	41	33	26	21

Model		Power		Q (m³/h)	0	1	2	3	4	5	6	7	8	9	10
Single-phase	Three-phase	kW	HP	Q (l/min)	0	16.7	33.3	50	66.7	83.3	100	116.7	133.3	150	166.7
EVPH-2	EVPH-2	1.1	1.5	H (m)	30	28.5	26	24.5	23	20	18.5	17	15	13	11
EVPH-4	EVPH-4	1.8	2.5		40	38.5	36	34.5	33	30	28.5	27	25	23	21
-	EVPH-6	2.2	3.0		50	48.5	46	44.5	43	40	38.5	37	35	33	31
-	EVPH-8	2.8	3.8		60	58.5	56	54.5	53	50	48.5	47	45	43	41
-	EVPH-10	3.8	5.2		70	68.5	66	64.5	63	60	58.5	57	55	53	51
-	EVPH-12	5.5	7.5		80	78.5	76	74.5	73	70	68.5	67	65	63	61

Model		Power		Q (m³/h)	0	1	2	3	4.5	6	7.5	9	10.5
Single-phase	Three-phase	kW	HP	Q (l/min)	0	16.7	33.3	50	75	100	125	150	175
EVPH-3	EVPH-3	1.1	1.5	H (m)	38	36	34	32	30	28	26	24	22
EVPH-4	EVPH-4	1.5	2.0		48	46	44	42	40	38	36	34	32
EVPH-5	EVPH-5	2.0	2.8		58	56	54	52	50	48	46	44	42
-	EVPH-6	2.8	3.8		68	66	64	62	60	58	56	54	52
-	EVPH-8	3.8	5.2		78	76	74	72	70	68	66	64	62
-	EVPH-10	5.5	7.5		88	86	84	82	80	78	76	74	72

Model		Power		Q (m³/h)	0	2	4	6	8	10	12	14	16
Three-phase		kW	HP	Q (l/min)	0	33	67	100	133	167	200	233	267
EVPH-3		3.0	4.0	H (m)	58	55	54	52	50	48	46	44	42
EVPH-4		4.0	5.3		75	74	72	70	68	66	64	62	60
EVPH-5		5.5	7.5		93	91	89	87	85	83	81	79	77
EVPH-6		7.5	10.0		113	110	107	104	100	98	97	95	93
EVPH-7		10.0	13.5		132	128	124	120	116	112	108	105	102
EVPH-8		13.5	18.0		152	147	143	139	134	127	122	118	114

Dimension



Model		Power		A	B	C	D	E	F	G	H	K	L
Single-phase	Three-phase	kW	HP										
EVPH-2	EVPH-2	0.37	0.5	362	120	130	110	202	114.5	G1	G1	100	140.5
EVPH-3	EVPH-3	0.55	0.75	408	140	150	110	202	114.5	G1	G1	100	140.5
EVPH-4	EVPH-4	0.75	1.0	436	170	180	110	202	114.5	G1	G1	100	140.5
EVPH-5	EVPH-5	1.0	1.5	464	190	200	110	202	114.5	G1	G1	100	140.5
EVPH-6	EVPH-6	1.5	2.0	492	210	220	110	202	114.5	G1	G1	100	140.5
EVPH-7	EVPH-7	2.0	2.8	520	230	240	110	202	114.5	G1	G1	100	140.5
EVPH-8	EVPH-8	2.8	3.8	548	250	260	110	202	114.5	G1	G1	100	140.5
EVPH-9	EVPH-9	3.8	5.2	576	270	280	110	202	114.5	G1	G1	100	140.5
EVPH-11	EVPH-11	5.5	7.5	632	310	320	110	202	114.5	G1	G1	100	140.5
-	EVPH-13	7.5	10.0	660	330	340	110	202	114.5	G1	G1	100	140.5
EVPH-2	EVPH-2	0.37	0.5	380	122	130	110	202	114.5	G1	G1	100	140.5
EVPH-3	EVPH-3	0.55	0.75	426	142	150	110	202	114.5	G1	G1	100	140.5
EVPH-4	EVPH-4	0.75	1.0	454	172	180	110	202	114.5	G1	G1	100	140.5
EVPH-5	EVPH-5	1.0	1.5	482	192	200	110	202	114.5	G1	G1	100	140.5
EVPH-6	EVPH-6	1.5	2.0	510	212	220	110	202	114.5	G1	G1	100	140.5
-	EVPH-7	2.0	2.8	538	232	240	110	202	114.5	G1	G1	100	140.5
-	EVPH-8	2.8	3.8	566	252	260	110	202	114.5	G1	G1	100	140.5
-	EVPH-10	3.8	5.2	622	292	300	110	202	114.5	G1	G1	100	140.5
-	EVPH-12	5.5	7.5	650	312	320	110	202	114.5	G1	G1	100	140.5
EVPH-2	EVPH-2	1.1	1.5	407	100	210	125	195.5	110	G1	G1	100	140.5
EVPH-4	EVPH-4	1.8	2.5	507	120	210	125	195.5	110	G1	G1	100	140.5
-	EVPH-6	2.2	3.0	607	140	210	125	195.5	110	G1	G1	100	140.5
-	EVPH-8	2.8	3.8	707	160	210	125	195.5	110	G1	G1	100	140.5
-	EVPH-10	3.8	5.2	807	180	210	125	195.5	110	G1	G1	100	140.5
EVPH-2	EVPH-2	1.1	1.5	407	100	210	125	195.5	110	G1	G1	100	140.5
EVPH-4	EVPH-4	1.8	2.5	507	120	210	125	195.5	110	G1	G1	100	140.5
-	EVPH-6	2.2	3.0	607	140	210	125	195.5	110	G1	G1	100	140.5
-	EVPH-8	2.8	3.8	707	160	210	125	195.5	110	G1	G1	100	140.5
-	EVPH-10	3.8	5.2	807	180	210	125	195.5	110	G1	G1	100	140.5
-	EVPH-12	5.5	7.5	907	200	210	125	195.5	110	G1	G1	100	140.5
EVPH-2	EVPH-2	3.0	4.0	554.5	107	240	141	217.5	127.5	G1	G1	100	140
EVPH-4	EVPH-4	4.0	5.3	654.5	127	240	141	217.5	127.5	G1	G1	100	140
EVPH-5	EVPH-5	5.5	7.5	754.5	147	240	141	217.5	127.5	G1	G1	100	140
-	EVPH-6	7.5	10.0	854.5	167	240	141	217.5	127.5	G1	G1	100	140
-	EVPH-8	10.0	13.5	954.5	187	240	141	217.5	127.5	G1	G1	100	140
-	EVPH-10	13.5	18.0	1054.5	207	240	141	217.5	127.5	G1	G1	100	140



ECH

Application

- It is applicable to household water supply, equipment support, pipeline pressurization, garden watering, vegetable greenhouse watering, fish farming and poultry raising, industrial and mining, water supply and drainage of enterprises and high-rise buildings, central air conditioner and centralized heating circulation system, etc.

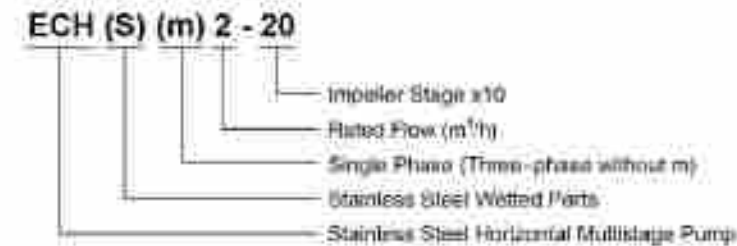
Pump

- AISI 304 shaft
- Max. liquid temperature: +85°C
- Altitude: up to 1000 m
- Max. suction: 8 m
- Max. inlet pressure: limited by max. operating pressure
- Max. operation pressure: 10 bar
- Liquid PH Value: 4-10

Motor

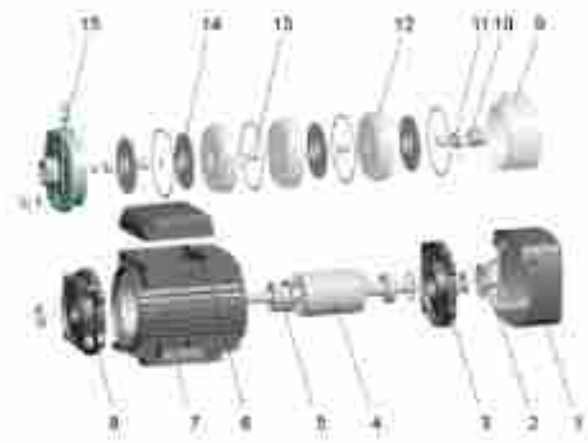
- IE2 motor (IE3 motor available on request)
- Motor with copper winding
- Built-in thermal protector for single phase motor
- Insulation class: F
- Protection class: IP55
- Max ambient temperature: +40°C

Identification Codes



Materials Table

No.	Part	Material
1	Fan cover	GF
2	Fan	PP
3	Rear cover	ZL 102
4	Rotor	
5	Gearing	
6	Terminal box	ZL 152
7	Glass	
8	Front cover	Cast Iron/AISI 304
9	Outlet body	Cast Iron/AISI 304
10	Mechanical seal	SiC/Carbon
11	Positioning sleeve	AISI 304
12	Diffuser	AISI 304
13	Sleeve	AISI 304
14	Impeller	AISI 304
15	Pump body	Cast Iron/AISI 304



ECH-F

Application

- It is applicable to household water supply, equipment support, pipeline pressurization, garden watering, vegetable greenhouse watering, fish farming and poultry raising, industrial and mining, water supply and drainage of enterprises and high-rise buildings, central air conditioner and centralized heating circulation system, etc.

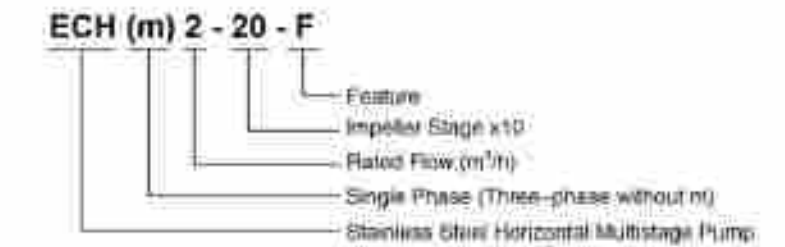
Pump

- AISI 304 shaft
- Max. liquid temperature: +80°C
- Altitude: up to 1000 m
- Max. suction: 8 m
- Max. inlet pressure: limited by max. operating pressure
- Max. operation pressure: 10 bar
- Liquid PH Value: 6.5-8.5

Motor

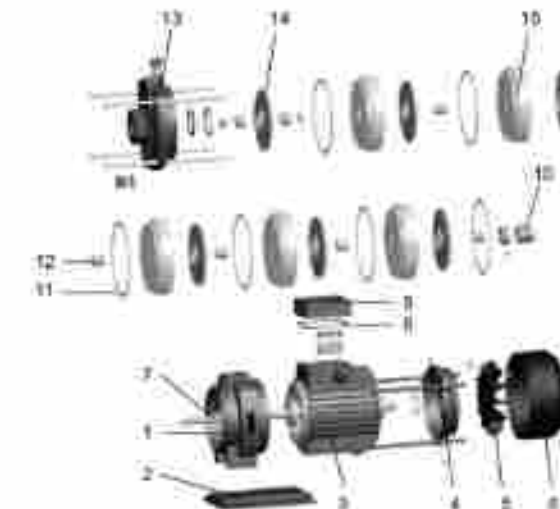
- IE2 motor
- Motor with copper winding
- Built-in thermal protector for single phase motor
- Insulation class: F
- Protection class: IPX4
- Max. ambient temperature: +40°C

Identification Codes

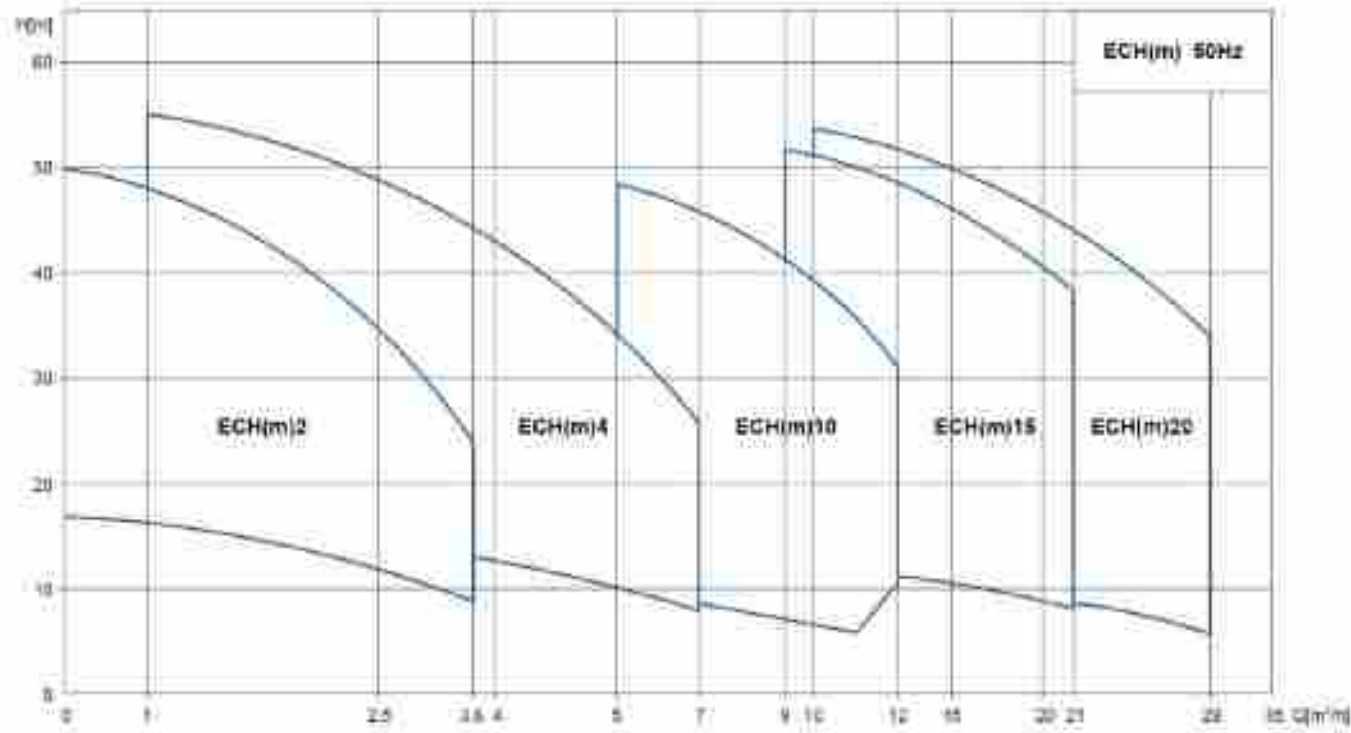


Materials Table

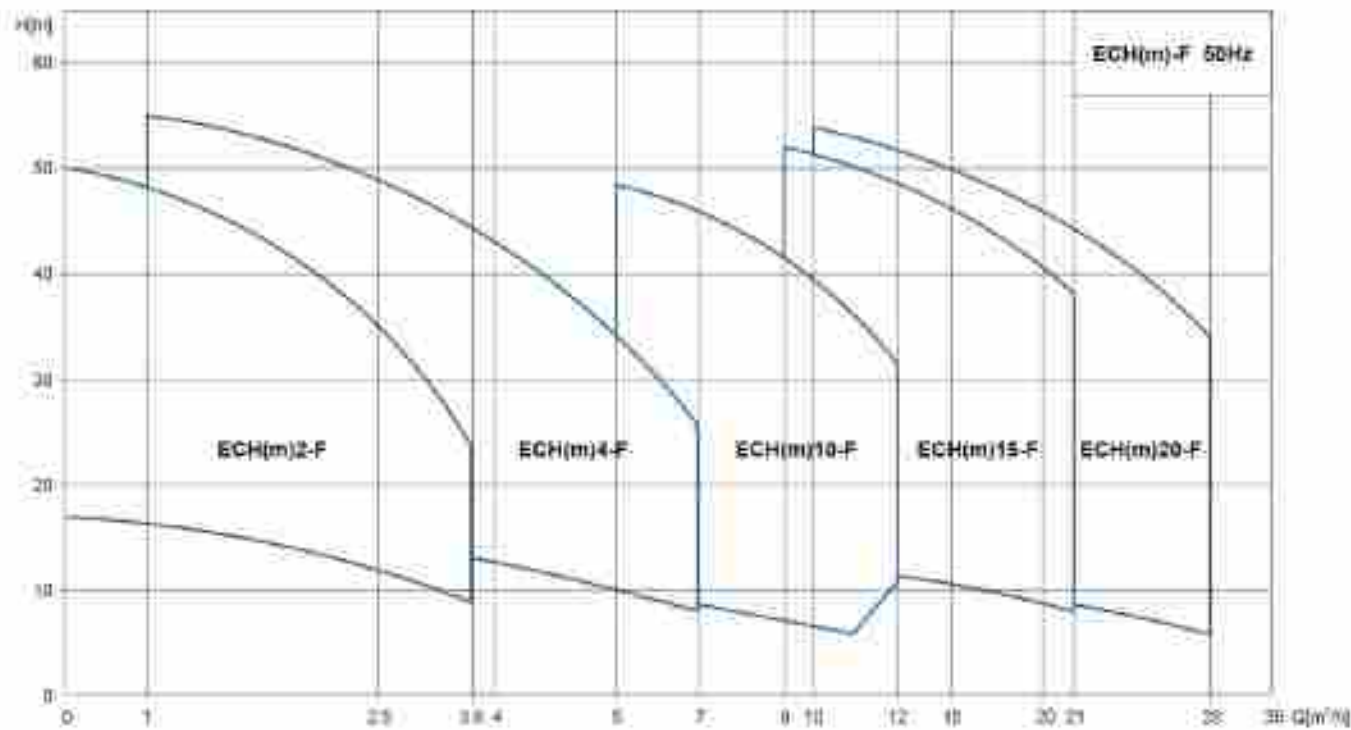
No.	Part	Material
1	Support	Cast Iron
2	Base	GG25
3	End cap	ZL 102
4	Rear	ZL 102
5	Fan	PP-GF15
6	Fan cover	PP
7	Rotor	
8	O-ring	NBR
9	Terminal box	PP-GF20
10	Mechanical seal	SiC/Carbon
11	O-ring	NBR
12	Gearing	AISI 304
13	Flange body	HT300
14	Impeller	AISI 304
15	Diffuser	AISI 304



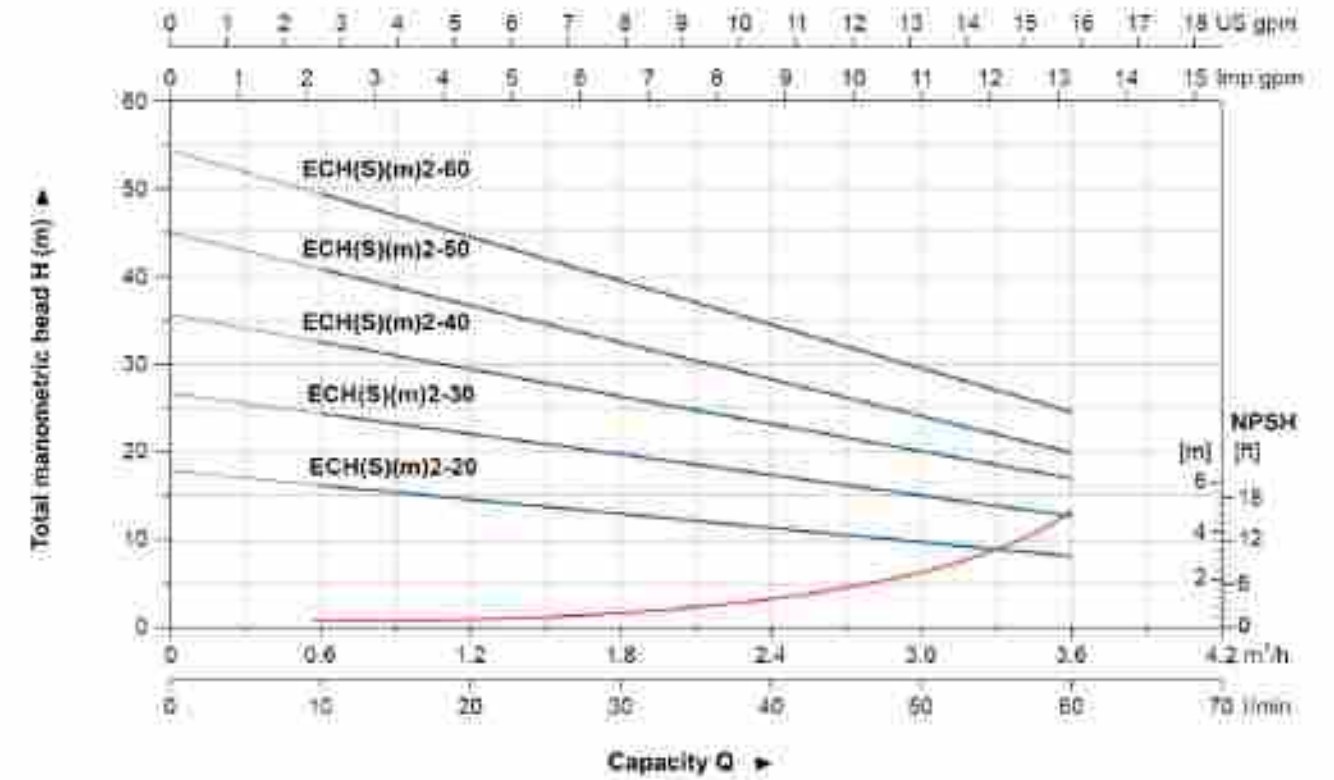
Scope of Performance - ECH



Scope of Performance - ECH-F



Hydraulic Performance Curves



Technical Data

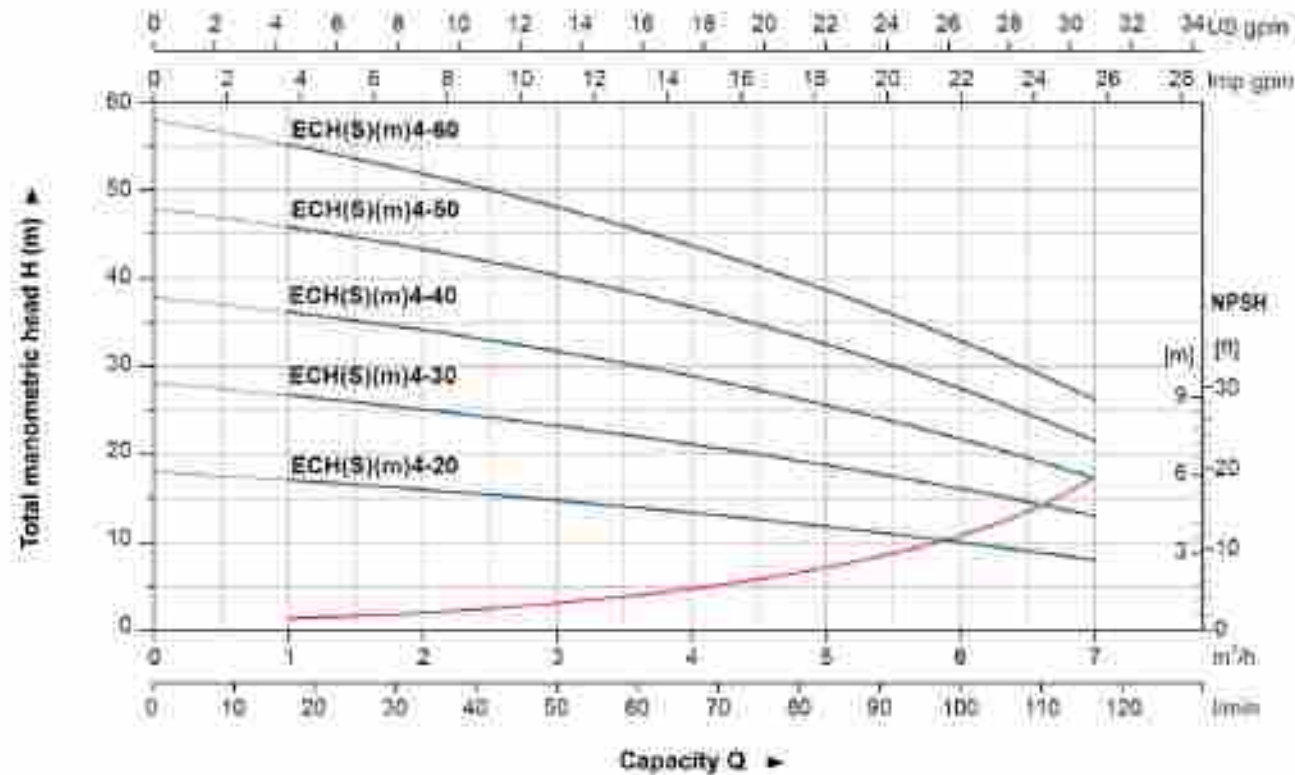
Model	Power		Q (m³/h) Q (l/min)	0.6	1.2	1.8	2.4	3.0	3.6
	kW	HP		10	20	30	40	50	60
ECH(S)(m)2-20	0.37	0.5	H (m)	16	15	13	12	10	8
ECH(S)(m)2-30	0.37	0.5		24	22	20	18	16	12
ECH(S)(m)2-40	0.55	0.75		32	30	28	24	21	16
ECH(S)(m)2-50	0.55	0.75		40	37	33	30	24	19
ECH(S)(m)2-60	0.75	1.0		50	45	40	36	30	23

Dimension



Model	L1	L2	L3	L4	L5	B1	B2	H	H1	A2	GW (kg)	L x W x H (mm)	Quantity (PCS/20'ESU)
ECH(S)(m)2-20	344.5	165.5	90	110	98.5	137	108	175.5	71	φ7	11.5	420x215x243	1215
ECH(S)(m)2-30	362.0	183.5	90	110	116.0	137	108	175.5	71	φ7	11.8	420x215x243	1215
ECH(S)(m)2-40	380.5	201.5	90	100	134.5	137	109	175.5	71	φ7	13.2	420x215x243	1215
ECH(S)(m)2-50	399.5	220.5	90	110	153.5	137	109	175.5	71	φ7	13.7	455x215x243	1170
ECH(S)(m)2-60	417.5	238.5	90	110	171.5	137	109	175.5	71	φ7	14.8	455x215x243	1170

Hydraulic Performance Curves



Technical Data

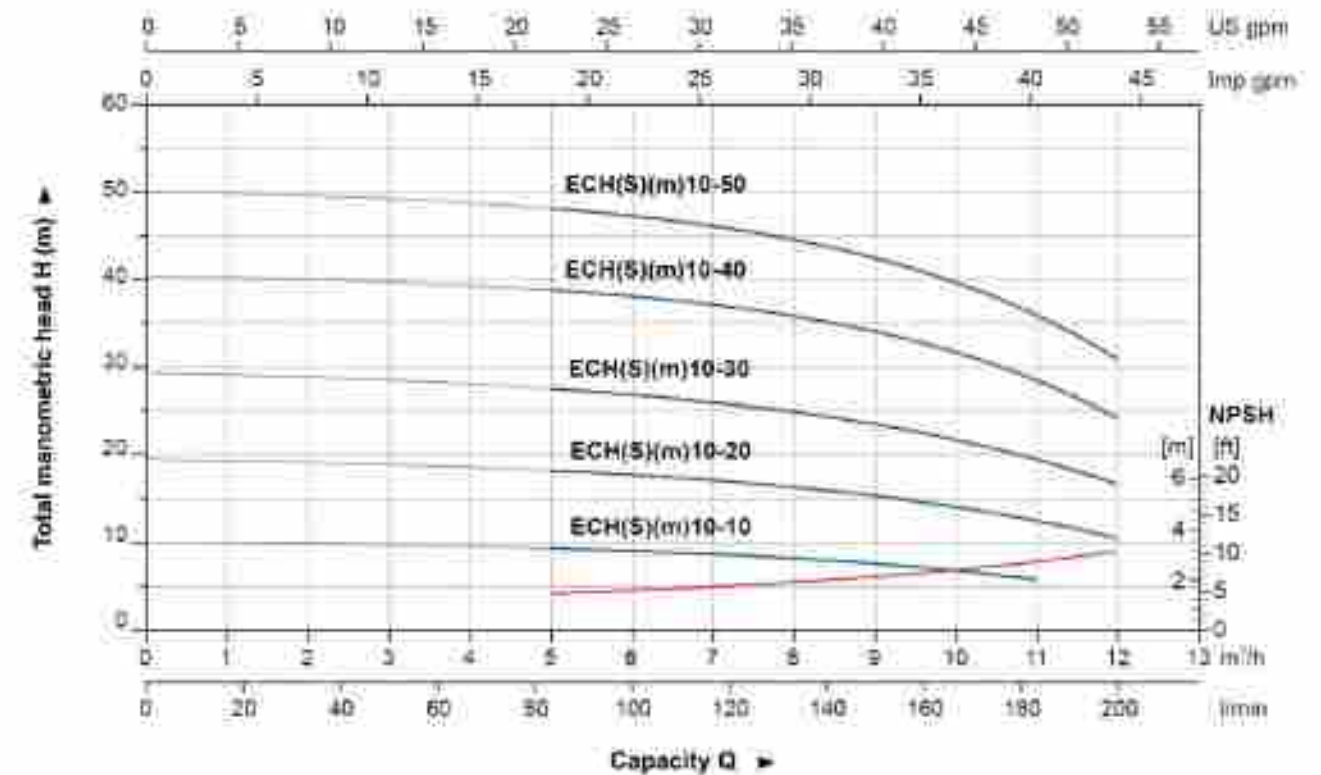
Model	Power		Qm³/h Q(l/min)	H (m)						
	kW	HP		1	2	3	4	5	6	7
ECH(S)(m)4-20	0.55	0.75	17	17	32	50	67	83	100	117
ECH(S)(m)4-30	0.55	0.75	27	27	25	23	21	19	18	15
ECH(S)(m)4-40	0.75	1.0	38	34	32	38	20	22	22	17
ECH(S)(m)4-50	1.1	1.5	48	43	40	36	33	28	28	21
ECH(S)(m)4-60	1.1	1.5	55	52	48	43	39	33	33	25

Dimension



Model	L1	L2	L3	L4	L5	B1	B2	H	H1	A3	GW (kg)	L x W x H (mm)	Quantity (PCS/20'FEU)
ECH(S)(m)4-20	354	175.0	90	110	108.0	137	100	176.5	71	47	13.1	420x215x243	1215
ECH(S)(m)4-30	381.5	203	90	110	136	137	100	176.5	71	47	13.6	420x215x243	1215
ECH(S)(m)4-40	408.5	230	90	110	163	137	100	176.5	71	47	14.7	455x215x243	1170
ECH(S)(m)4-50	484	266	100	130	190	165	125	204.5	80	410	21.5	548x235x268	800
ECH(S)(m)4-60	511.5	293.5	100	130	217.6	165	125	204.5	80	410	22	548x235x268	800

Hydraulic Performance Curves



Technical Data

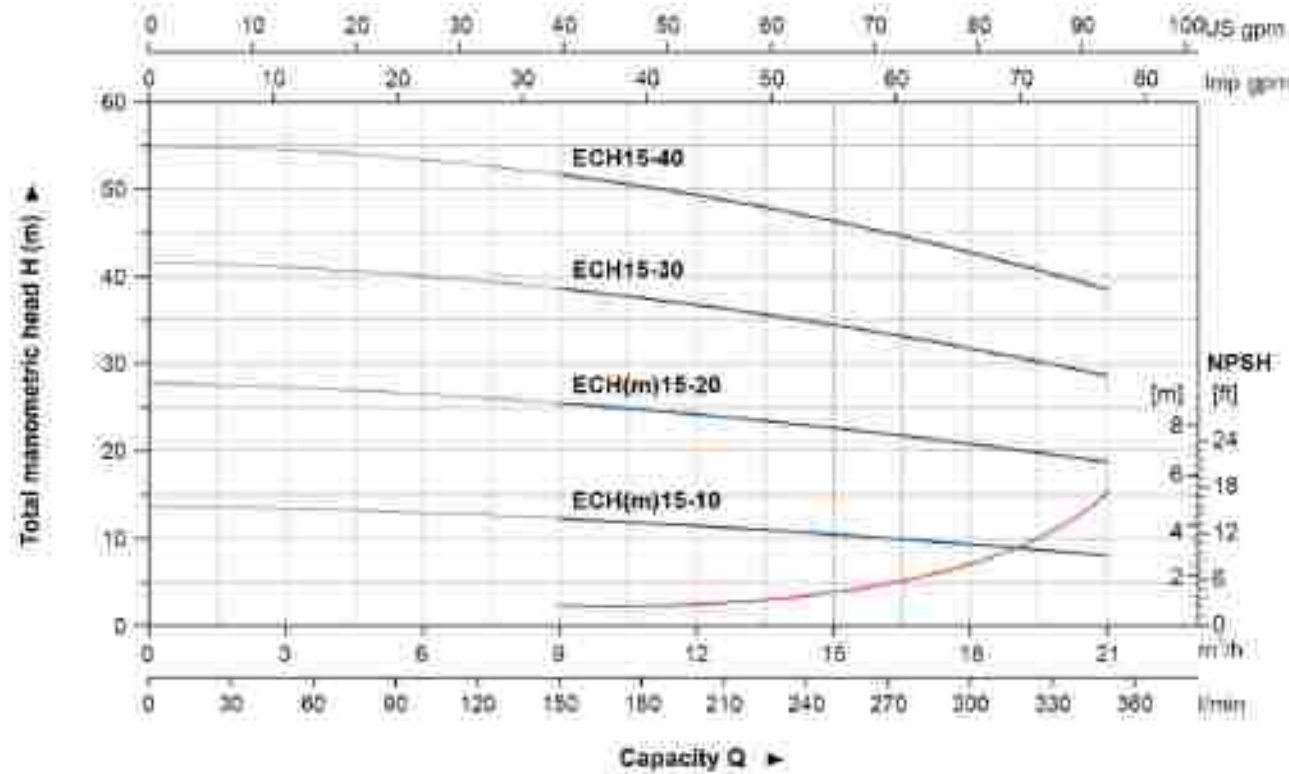
Model	Power		Qm³/h Q(l/min)	H (m)							
	kW	HP		6	7	8	9	10	11	12	
ECH(S)(m)10-10	0.75	1.0	100	9.1	8.7	8.2	7.7	6.9	5.8	-	
ECH(S)(m)10-20	0.75	1.0	17.0	17.1	16.3	15.3	14	12.5	10.8		
ECH(S)(m)10-30	1.1	1.5	27.1	26.3	24.8	23.4	21.4	19.3	16.8		
ECH(S)(m)10-40	1.5	2.0	36.0	37.6	35.8	33.9	31.2	28.2	24.8		
ECH(S)(m)10-50	2.2	3.0	47.0	46.4	44.4	42.2	39.5	35.9	31.1		

Dimension



Model	L1	L2	L3	L4	L5	B1	B2	H	H1	A3	GW (kg)	L x W x H (mm)	Quantity (PCS/20'FEU)
ECH(S)(m)10-10	430	212	100	130	121	165	125	204.5	80	410	20.7	503x235x268	856
ECH(S)(m)10-20	430	212	100	130	121	165	125	204.5	80	410	20.8	503x235x268	856
ECH(S)(m)10-30	460.5	242.5	100	130	151.5	165	125	204.5	80	410	21.9	503x235x268	856
ECH(S)(m)10-40	549.5	281.5	125	150	182	180	140	217.5	90	410	28.2	618x245x283	653
ECH(S)(m)10-50	576.5	281.5	125	150	212	180	140	217.5	90	410	30.6	618x245x283	653

Hydraulic Performance Curves



Technical Data

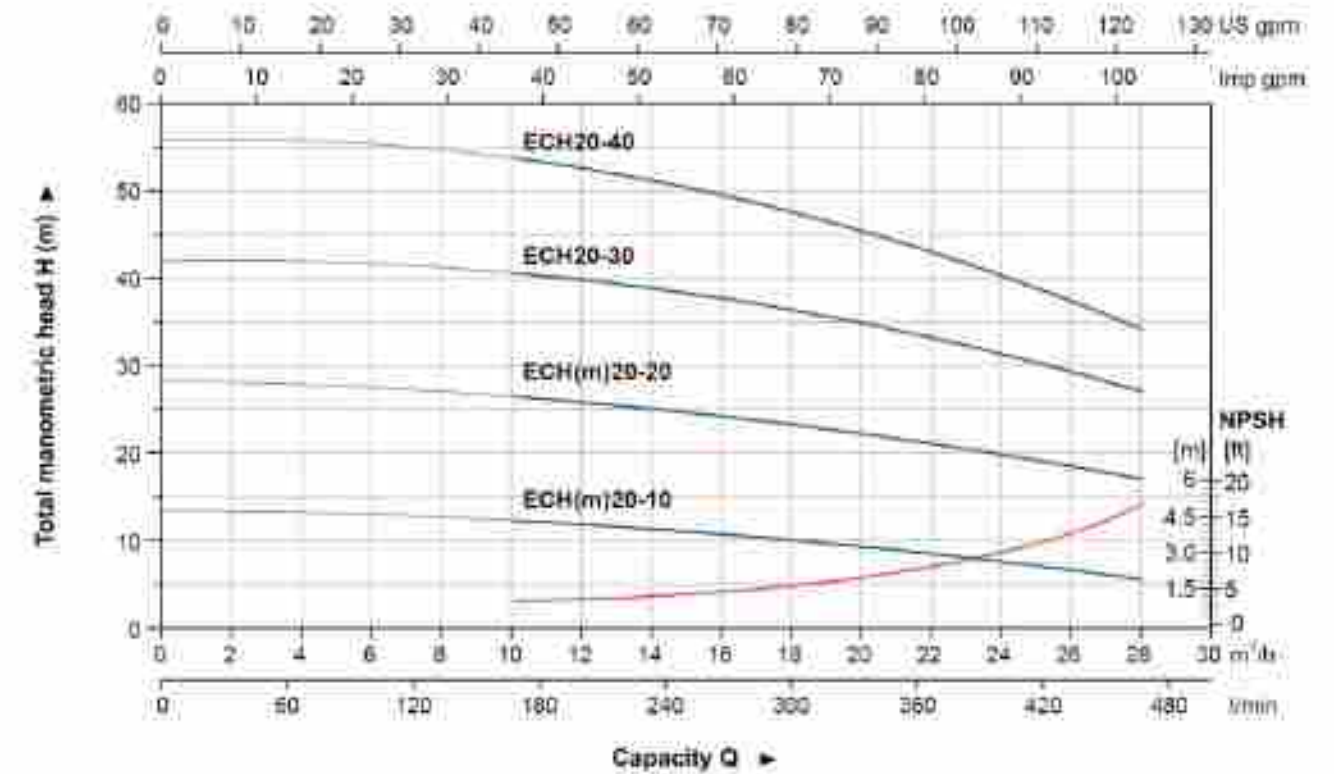
Model	Power		Q(m ³ /h) Q(l/min)	9	12	15	18	21
	kW	HP		H (m)	150	200	250	300
ECH(m)15-10	1.1	1.5	H (m)	12.4	11.6	10.6	9.4	8.2
ECH(m)15-20	2.2	3		25.8	24.1	22.7	21.1	19.8
ECH15-30	3.0	4		38.7	36.9	34.9	31.9	28.5
ECH15-40	4.0	5.5		51.8	49.7	46.8	42.9	38.3

Dimension



Model	L1	L2	L3	L4	L5	B1	B2	H	H1	A3	GW (kg)	L x W x H (mm)	Quantity (PC&26'TEIJ)
ECH(m)15-10	451	233.5	100	130	136.5	165	125	204.5	80	Φ10	22.7	503x235x268	856
ECH(m)15-20	510	222	125	150	136.5	180	140	217.5	90	Φ10	30.3	557x245x283	699
ECH15-30	569	272	125	150	169.5	180	140	247.5	90	Φ10	32.2	616x245x293	625
ECH15-40	616	336.5	140	180	200	205	160	224.5	100	Φ12	38.8	687x245x290	504

Hydraulic Performance Curves



Technical Data

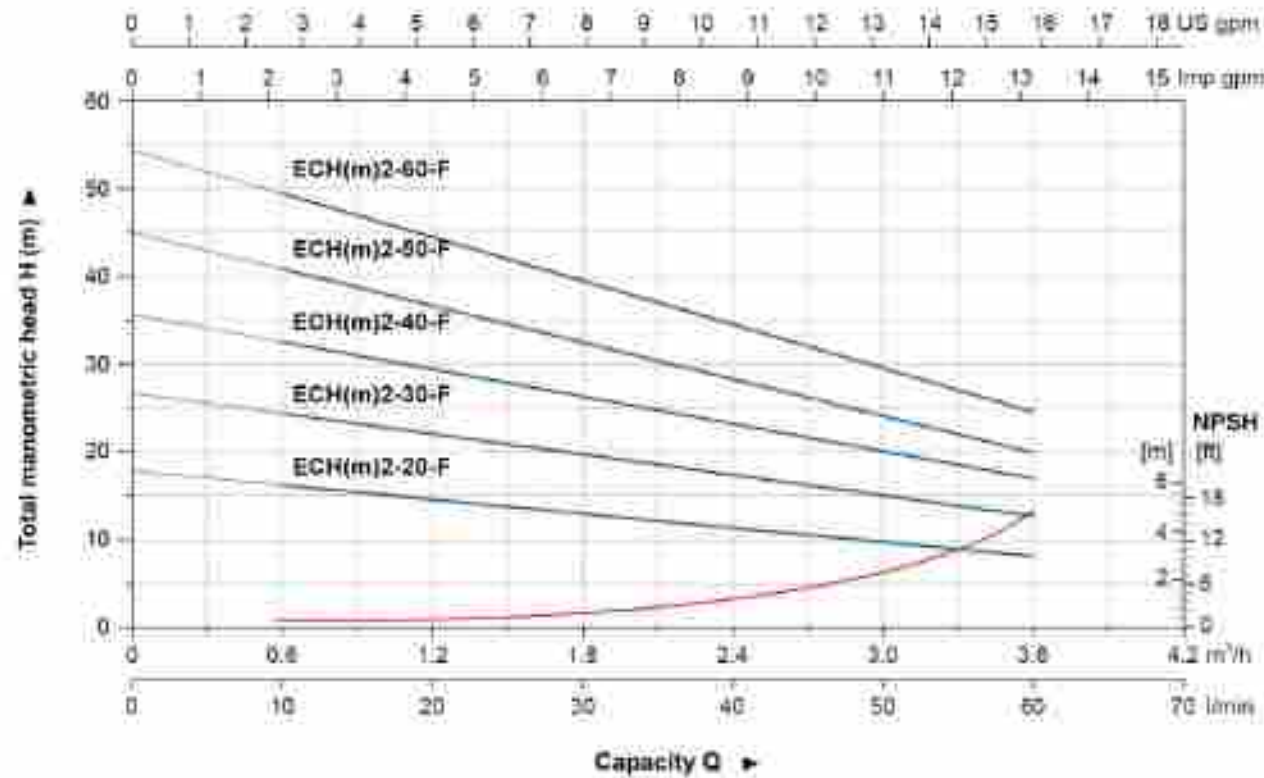
Model	Power		Q(m ³ /h) Q(l/min)	12	16	20	24	29
	kW	HP		H (m)	290	287	333	400
ECH(m)20-10	1.1	1.5	H (m)	12.1	10.8	9.5	7.8	5.7
ECH(m)20-20	2.2	3		26.1	24.4	22.4	19.8	17.2
ECH20-30	4.0	5.5		39.9	38.0	35.5	31.4	26.9
ECH20-40	4.0	5.5		52.7	50.1	45.9	40.3	34.0

Dimension



Model	L1	L2	L3	L4	L5	B1	B2	H	H1	A3	GW (kg)	L x W x H (mm)	Quantity (PC&26'TEIJ)
ECH(m)20-10	451	233.5	100	130	136.5	165	125	204.5	80	Φ10	22.7	503x235x268	856
ECH(m)20-20	510	222	125	150	136.5	180	140	217.5	90	Φ10	30.3	557x245x283	699
ECH20-30	570.5	291	140	180	164.5	205	160	224.5	100	Φ12	36.9	687x245x290	515
ECH20-40	616	336.5	140	180	200	205	160	224.5	100	Φ12	38.4	687x245x290	504

Hydraulic Performance Curves



Technical Data

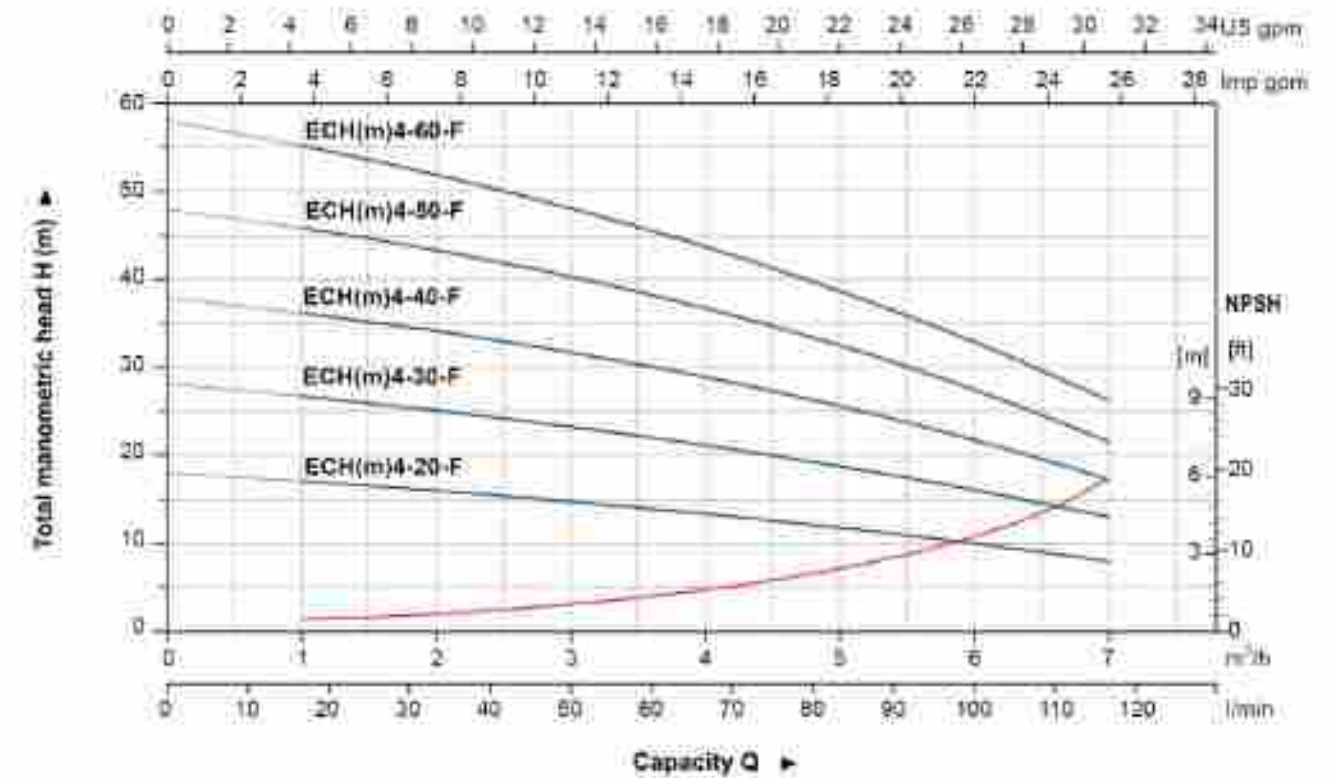
Model	Power		Q(m³/h) Q(l/min)	H (m)						
	kW	HP		0	0.6	1.2	1.8	2.4	3.0	3.6
ECH(m)2-20-F	0.37	0.5	0	18	18	15	13	12	10	8
ECH(m)2-30-F	0.37	0.5	0	27	24	22	20	18	16	12
ECH(m)2-40-F	0.55	0.75	0	35	30	30	26	24	21	16
ECH(m)2-50-F	0.65	0.75	0	45	40	37	33	30	24	19
ECH(m)2-60-F	0.75	1.0	0	53	50	45	40	36	30	23

Dimension



Model	L1	L2	L3	L4	L5	L6	H		GW (kg)	L x W x H (mm)	Quantity (PCS/20'ESU)
							1-	2-			
ECH(m)2-20-F	303	75	64	138	160	103.5	197.5	187	12.3	400x205x240	1366
ECH(m)2-30-F	352	83.5	82.5	138	160	122	197.5	187	12.6	400x205x240	1260
ECH(m)2-40-F	370	112	101	138	160	140.5	197.5	187	13.3	400x205x240	1366
ECH(m)2-50-F	389	130.5	119.5	138	160	159	197.5	187	13.8	400x205x240	1260
ECH(m)2-60-F	407	140	138	138	160	177.5	197.5	187	14.7	400x205x240	1161

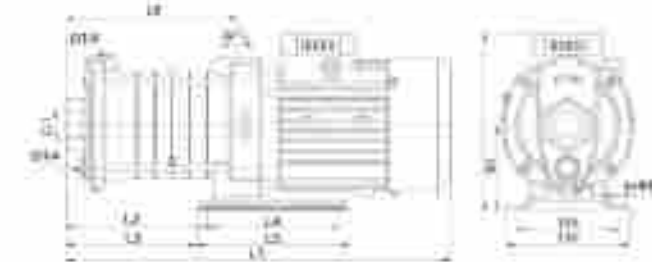
Hydraulic Performance Curves



Technical Data

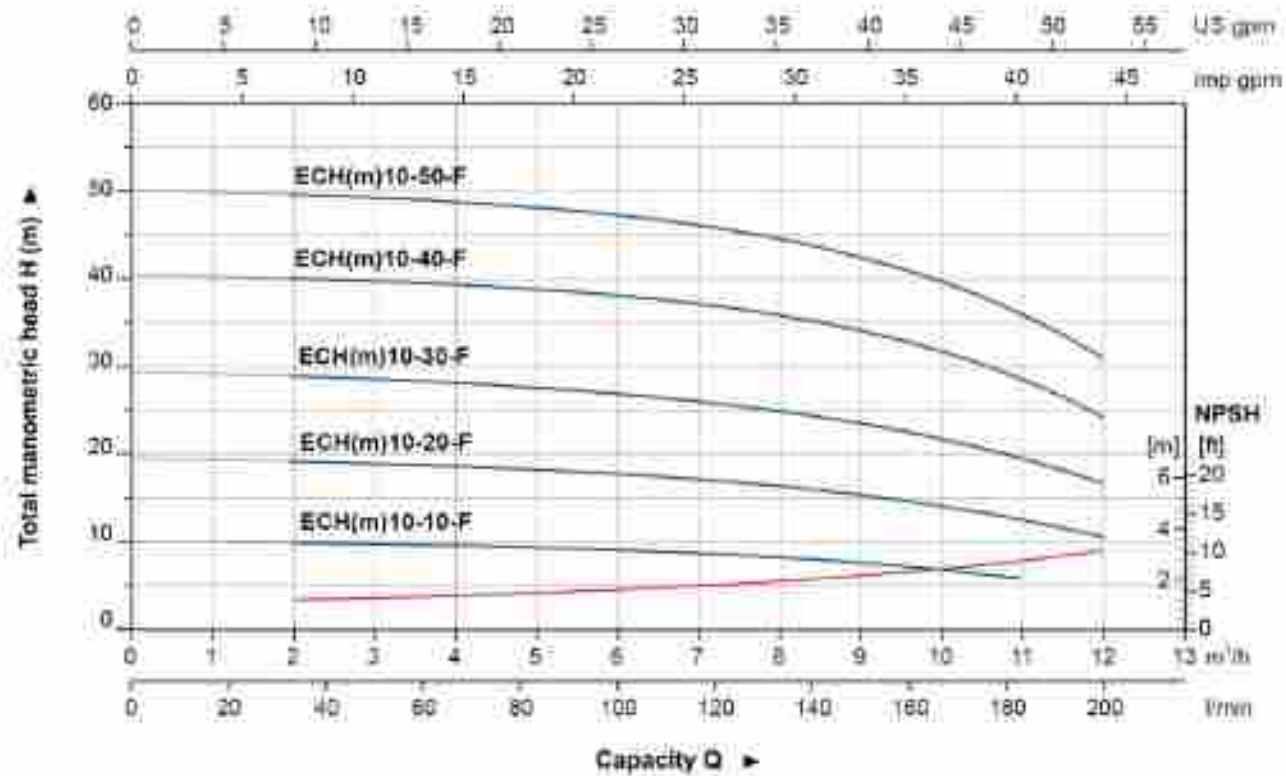
Model	Power		Q(m³/h) Q(l/min)	H (m)							
	kW	HP		0	1	2	3	4	5	6	7
ECH(m)4-20-F	0.55	0.75	0	15	17	16	15	13	12	10	8
ECH(m)4-30-F	0.55	0.75	0	26	27	25	23	21	19	16	13
ECH(m)4-40-F	0.75	1.0	0	38	38	34	32	28	26	22	17
ECH(m)4-50-F	1.1	1.5	0	48	48	43	40	36	33	28	21
ECH(m)4-60-F	1.1	1.5	0	58	55	52	48	43	39	33	26

Dimension



Model	L1	L2	L3	L4	L5	L6	H		GW (kg)	L x W x H (mm)	Quantity (PCS/20'ESU)
							1-	2-			
ECH(m)4-20-F	342	85.5	74.5	138	160	114	197.5	187	12.8	400x205x240	1366
ECH(m)4-30-F	370	113	102	138	160	141.5	197.5	187	13	400x205x240	1366
ECH(m)4-40-F	398	140.5	129.5	138	160	169	197.5	187	14.9	455x205x240	1260
ECH(m)4-50-F	425	168	157	138	160	196.5	197.5	187	15.7	455x205x240	1260
ECH(m)4-60-F	453	195.5	184.5	138	160	224	197.5	187	16.9	480x205x240	1161

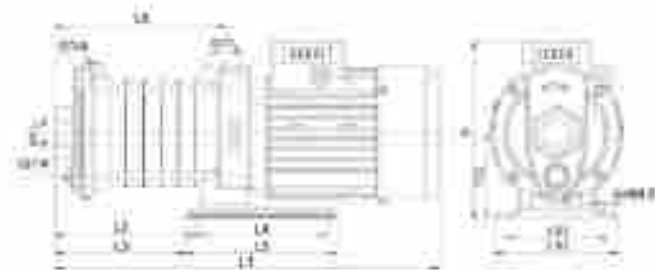
Hydraulic Performance Curves



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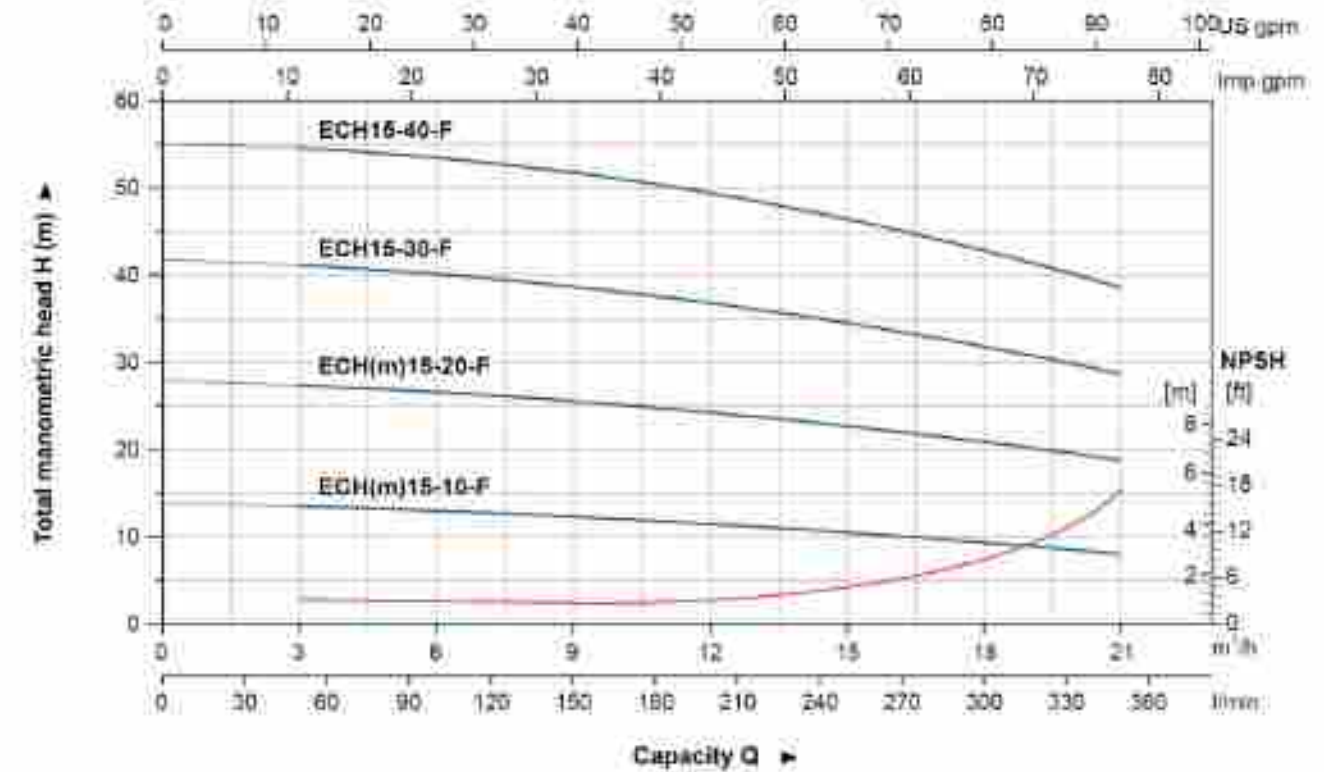
Model	Power		Q(m ³ /h) Q(l/min)	H (m)													
	kW	HP		0	3	6	9	12	15	18	21	24	27	30			
ECH(m)10-10-F	0.75	1.0	10.1	9.5	9.8	9.1	8.7	8.2	7.7	6.8	5.8	-	-	-	-	-	-
ECH(m)10-20-F	0.75	1.0	19.5	19	18.7	17.9	17.1	16.3	15.3	14	12.5	10.6	-	-	-	-	-
ECH(m)10-30-F	1.1	1.5	29.3	28.6	28.3	27.1	26.3	24.9	23.4	21.4	19.3	16.9	-	-	-	-	-
ECH(m)10-40-F	1.5	2.0	36.1	35.8	35.6	34.6	33.6	31.9	30.9	28.2	24.6	-	-	-	-	-	-
ECH(m)10-50-F	2.2	3.0	49.8	49.2	49.1	47.8	46.4	44.4	42.2	39.5	35.9	31.1	-	-	-	-	-

Dimension



Model	L1	L2	L3	L4	L5	L6	H		GW (kg)	L x W x H (mm)	Quantity (PCS/20'FEU)
							1-	2-			
ECH(m)10-10-F	398	122	111	138	160	120	232.5	226	21.5	435x275x110	898
ECH(m)10-20-F	398	122	111	138	160	120	232.5	226	21.8	430x275x110	806
ECH(m)10-30-F	428	152	141	138	150	150	232.5	226	24.3	465x275x110	766
ECH(m)10-40-F	530	194	183	138	160	167	236	230	26.1	575x275x110	656
ECH(m)10-50-F	560	224	213	138	160	217	242	230	30.4	605x275x110	637

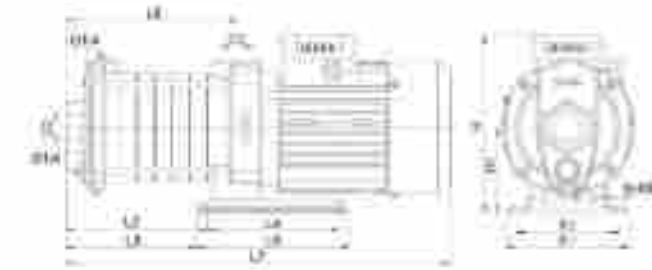
Hydraulic Performance Curves



Technical Data

Model	Power		Q(m ³ /h) Q(l/min)	H (m)													
	kW	HP		0	3	6	9	12	15	18	21						
ECH(m)15-10-F	1.1	1.5	10.9	10.5	13.1	12.4	11.6	10.6	9.4	8.2	-	-	-	-	-	-	-
ECH(m)15-20-F	2.2	3	27.8	27.5	26.7	25.6	24.1	22.7	21.1	18.6	-	-	-	-	-	-	-
ECH15-30-F	3.0	4	42.1	40.9	39.8	38.7	36.9	34.9	31.9	28.5	-	-	-	-	-	-	-
ECH15-40-F	4.0	5.0	55.5	54.3	52.8	51.8	49.7	46.8	42.9	38.3	-	-	-	-	-	-	-

Dimension

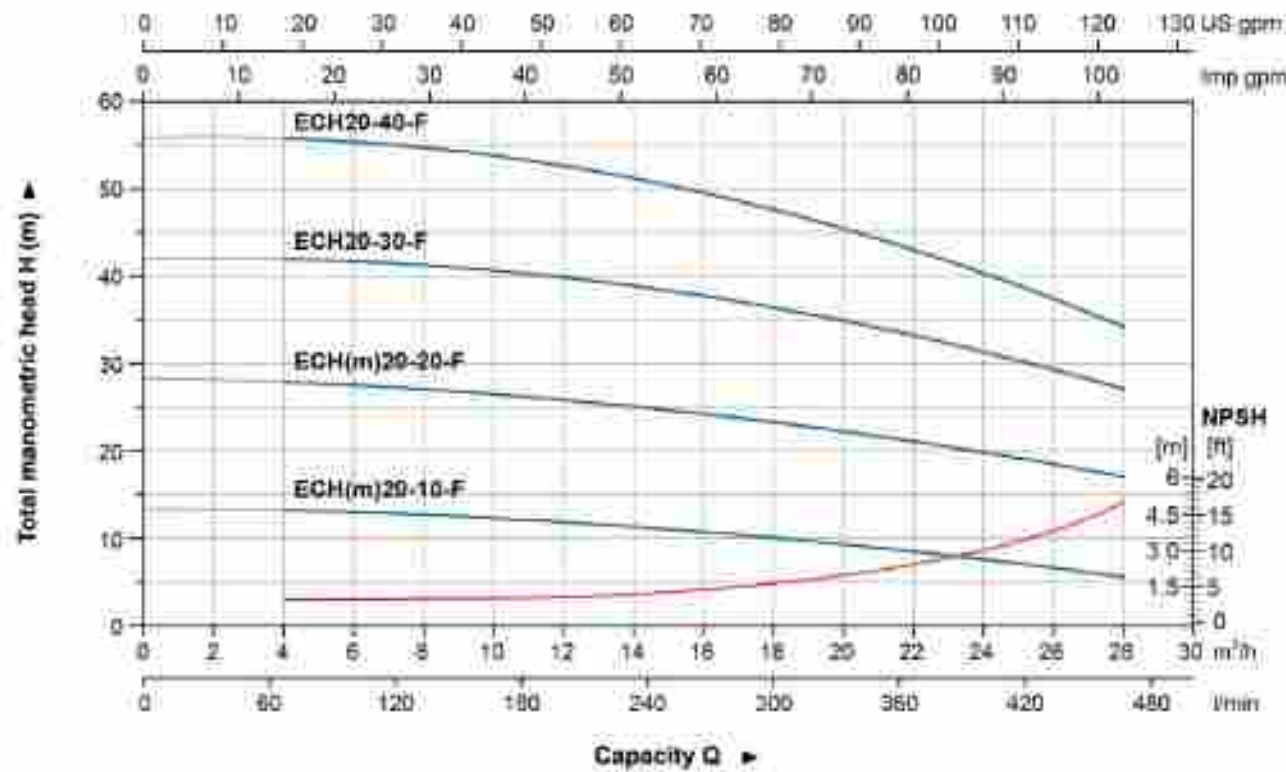


Model	L1	L2	L3	L4	L5	L6	B1	B2	H		H1	GW (kg)	L x W x H (mm)	Quantity (PCS/20'FEU)
									1-	2-				
ECH(m)15-10-F	419	142	131	138	160	142	130	108	232.5	226	110	23	465x275x110	756
ECH(m)15-20-F	485	149	138	138	160	142	130	108	242	230	110	29.2	530x275x110	656
ECH15-30-F	546	192	190	190	230	195	190	140	-	280	120	34.5	590x275x110	530
ECH15-40-F	591	237	217	190	230	230	190	140	-	252	120	46.5	635x275x110	430

Stainless Steel Horizontal Multistage Pump

Stainless Steel Horizontal Multistage Pump

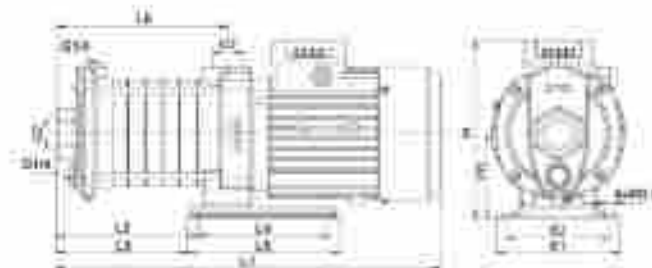
Hydraulic Performance Curves



Technical Data

Model	Power		Q(m³/h) Q(l/min)	H (m)												
	kW	HP		0	4	8	12	16	20	24	28					
ECH(m)20-10-F	1.1	1.5		13.6	13.3	12.8	12.1	10.8	9.5	7.8	5.7					
ECH(m)20-20-F	2.2	3		25.5	27.5	27.0	26.1	24.4	22.4	18.8	17.2					
ECH20-30-F	4.0	5.0		42.5	41.6	40.9	39.9	38.0	35.5	31.4	28.9					
ECH20-40-F	4.0	5.0		56.6	55.2	54.2	52.7	50.1	45.6	40.3	34.0					

Dimension



Model	L1	L2	L3	L4	L5	L6	B1	B2	H		H1	GW (Kgs)	L x W x H (mm)	Quantity (PC/20/15U)
									1-	3-				
ECH(m)20-10-F	419	142	131	138	160	142	130	108	232.5	226	110	23	405x275x310	756
ECH(m)20-20-F	485	149	138	138	160	142	130	108	242	230	110	29.2	500x275x310	696
ECH20-30-F	546	192	190	190	200	185	180	140	-	250	120	37.3	590x275x310	536
ECH20-40-F	581	237	217	190	230	230	180	140	-	250	120	46.5	635x275x310	430



Optional Base(HT200)

EDH

Application

- It is applicable to household water supply, equipment support, pipeline pressurization, garden watering, vegetable greenhouse watering, fish farming and poultry raising, industrial and mining, water supply and drainage of enterprises and high-rise buildings, central air conditioner and centralized heating circulation system, etc.

Pump

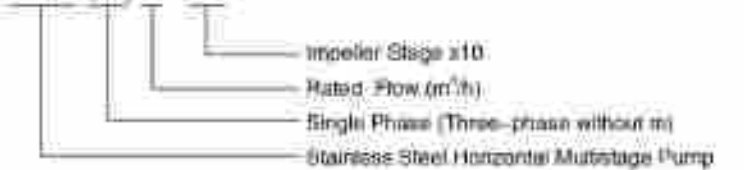
- AISI 304 shaft
- Max. liquid temperature: +65°C
- Altitude: up to 1000 m
- Max. suction: 8 m
- Max. inlet pressure: limited by max. operating pressure
- Max. operation pressure: 10 bar
- Liquid PH Value: 4-10

Motor

- IE2 motor (IE3 motor available on request)
- Motor with copper winding
- Built-in thermal protector for single phase motor
- Insulation class: F
- Protection class: P55
- Max ambient temperature: +40°C

Identification Codes

EDH (m) 2 - 20



Materials Table

No.	Part	Material
1	Pump body	AISI 304
2	Support	ZL102
3	Bottom plate	Q235
4	Stator	
5	Rotor	
6	Sealing	
7	Rear cover	ZL102
8	Fan	HP
9	Fan cover	QBF
10	Bracket cover	AISI 304
11	Mechanical seal	SiC/SiCbor
12	Positioning sleeve	AISI 304
13	Diffuser 3	AISI 304
14	Diffuser 2	AISI 304
15	Sleeve	AISI 304
16	Impeller	AISI 304
17	Diffuser 1	AISI 304
18	Pressure plate	AISI 304
19	Spacer bush	AISI 304





EDH-F

Application

- It is applicable to household water supply, equipment support, pipeline pressurization, garden watering, vegetable greenhouse watering, fish farming and poultry raising, supply and drainage of enterprises and high rise buildings, central air conditioned and centralized heating circulation system, etc.

Pump

- AISI304 shaft
- Max. liquid temperature: +60°C
- Altitude: up to 1000 m
- Max. section: 6 m
- Max. inlet pressure: limited by max. operating pressure
- Max. operation pressure: 10 bar
- Liquid PH value: 6.5 - 8.5

Motor

- IE2 motor
- Motor with copper winding
- Built-in thermal protector for single phase motor
- Insulation class: F
- Protection class: IPX4
- Max. ambient temperature: +40°C

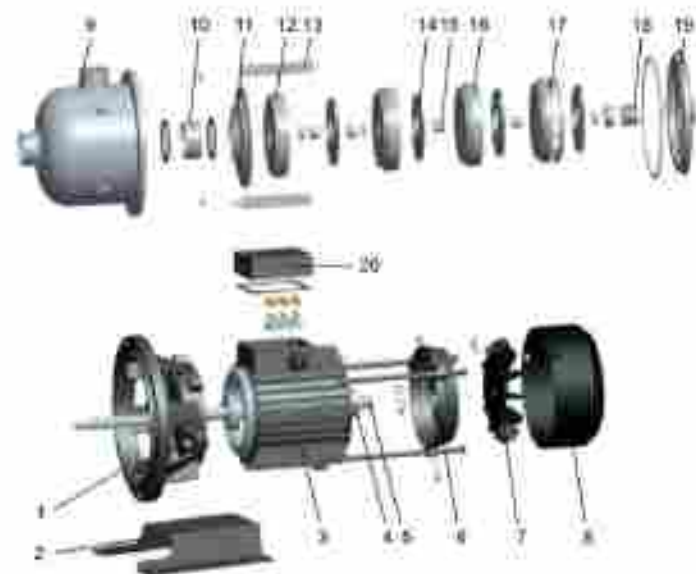
Identification Codes

EDH (m) 2 - 20 - F

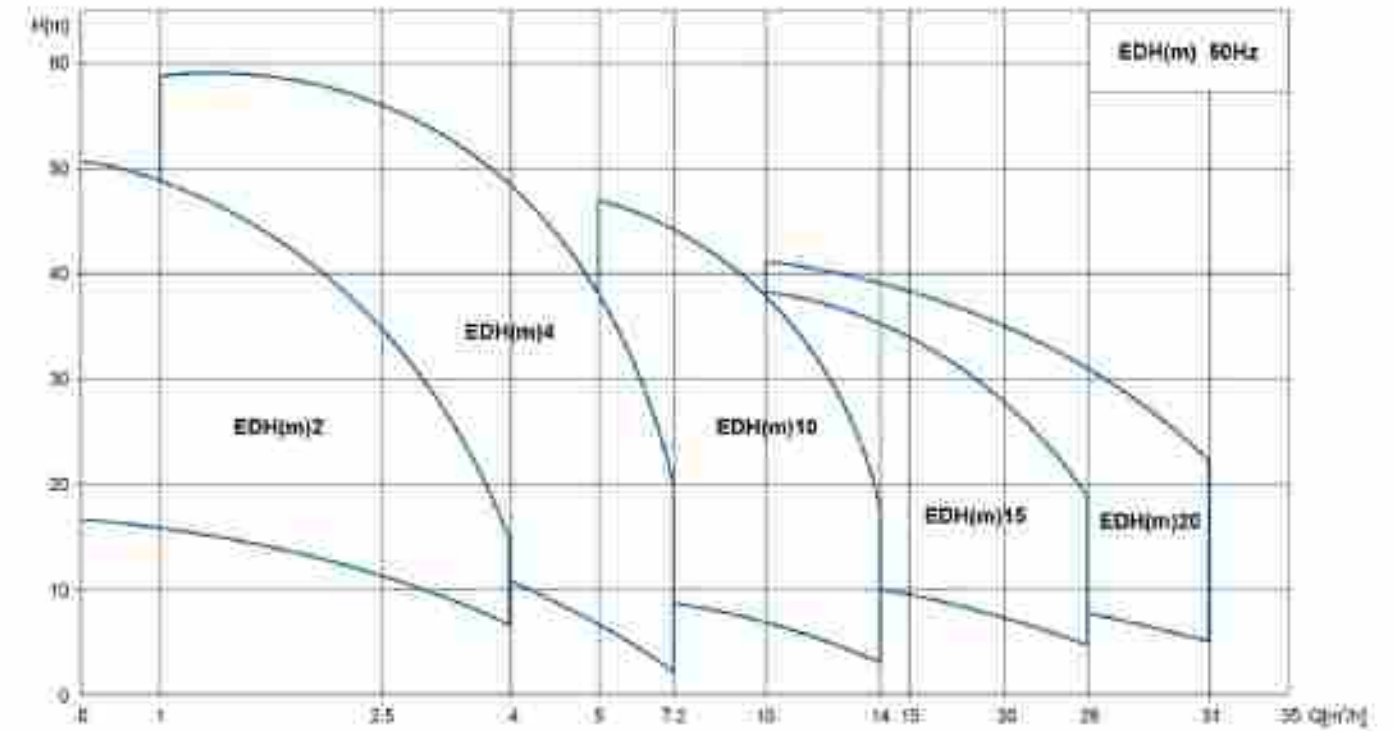


Materials Table

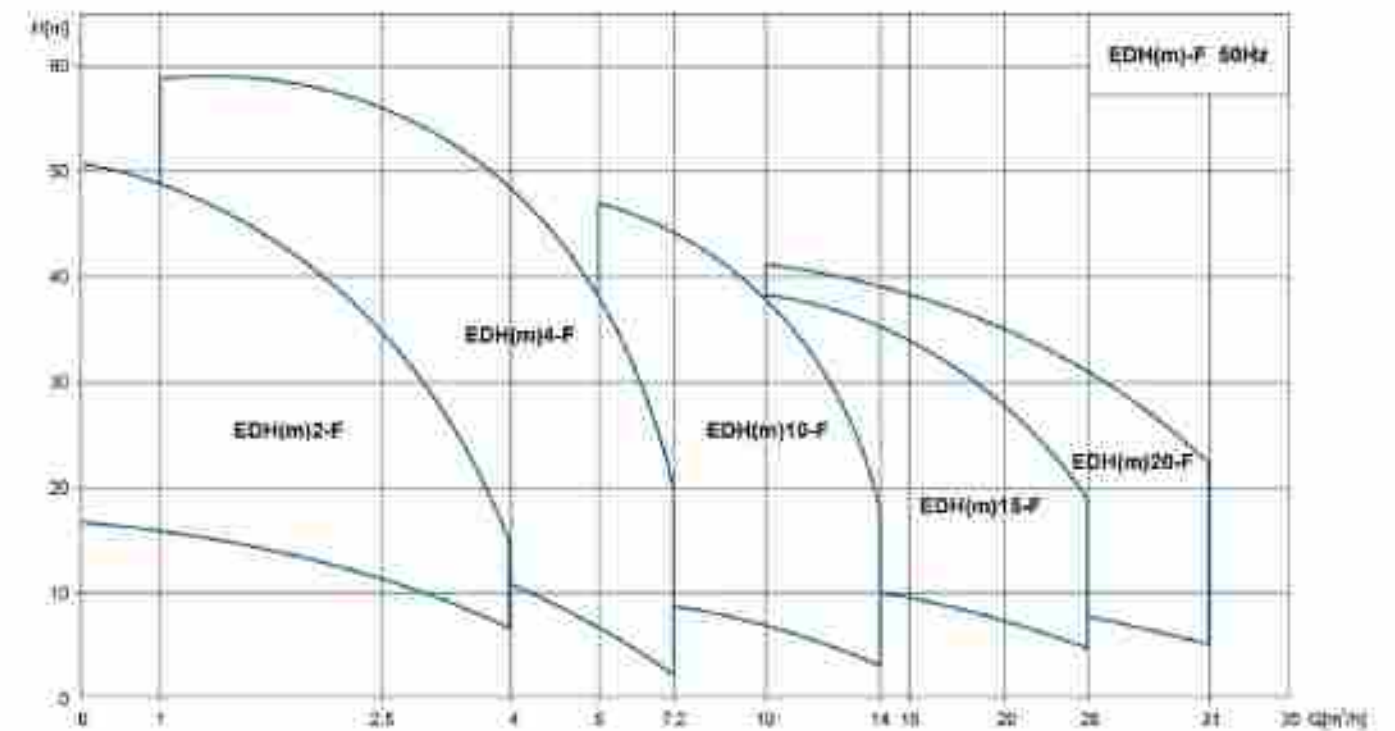
No.	Part	Material
1	Support	ZL 102
2	Base	Q235
3	Stator	
4	Bearing	
5	Rotor	
6	Impeller	ZL 102
7	Fan	PP
8	Fan cover	CFR
9	Pump body	AISI 304
10	Spacer bush	AISI 304
11	Pressure plate	AISI 304
12	Diffuser1	AISI 304
13	Tension plate	AISI 304
14	Impeller	AISI 304
15	Stator	AISI 304
16	Diffuser2	AISI 304
17	Diffuser3	AISI 304
18	Mechanical seal	SiC/Carbon
19	Bracket cover	AISI 304
20	Terminal cover	Plastic



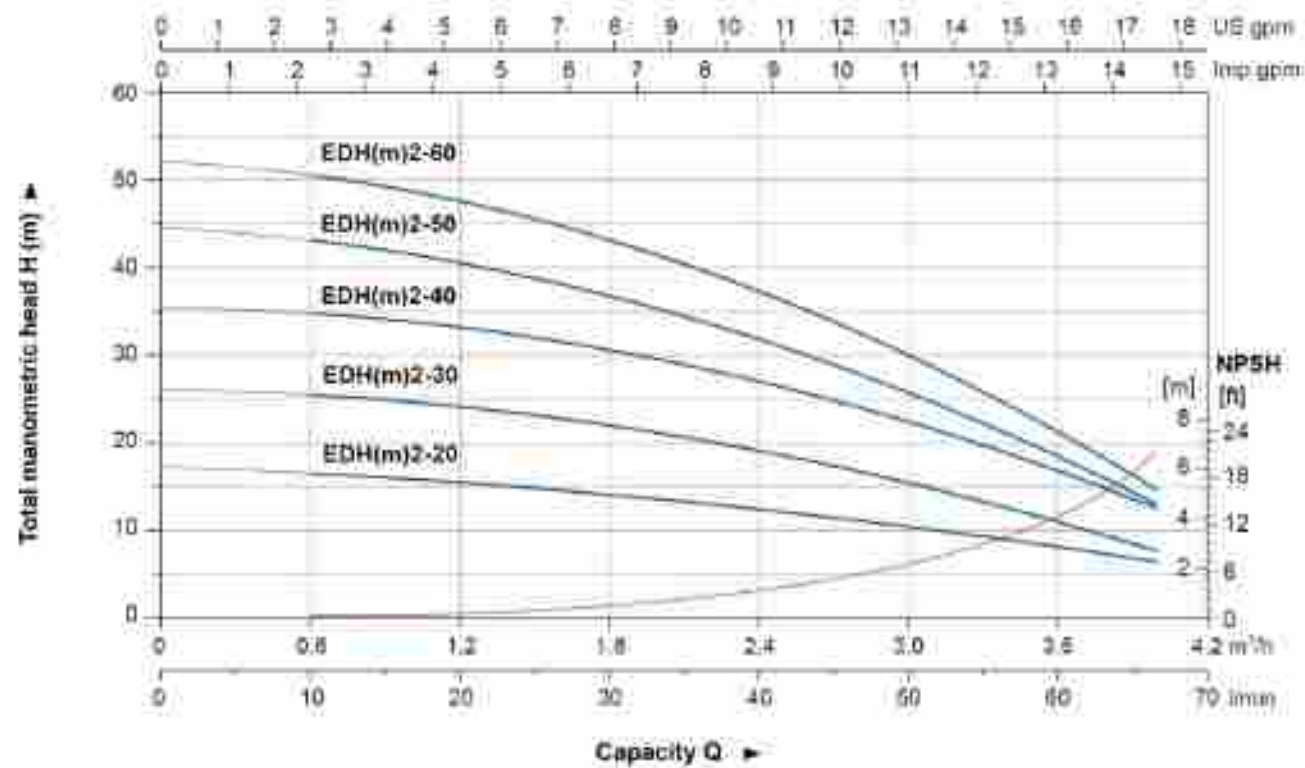
Scope of Performance - EDH



Scope of Performance - EDH-F



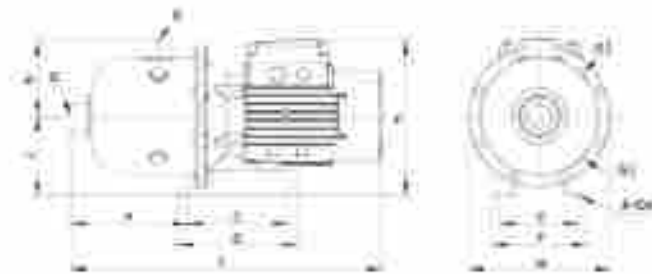
Hydraulic Performance Curves



Technical Data

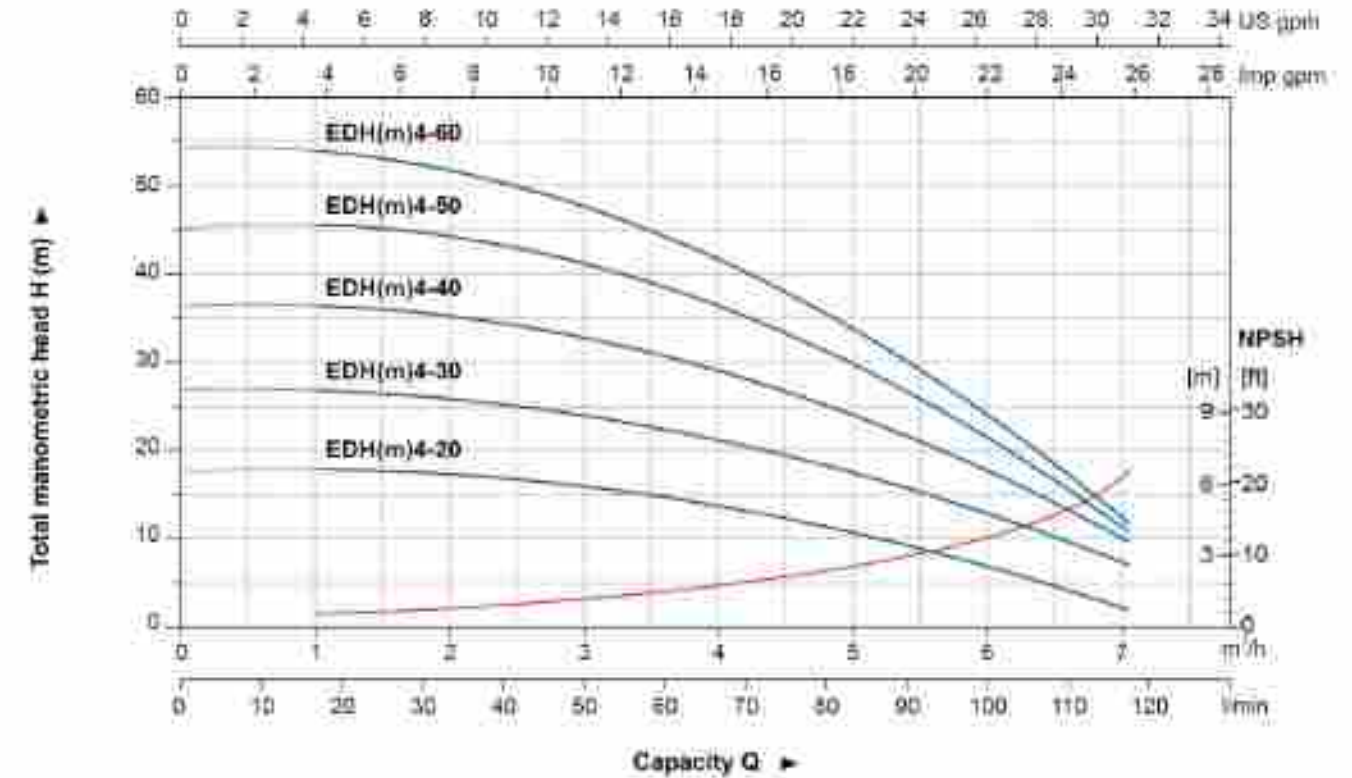
Model	Power		Q(m³/h) Q(l/min)	0.5	1	1.5	2	2.5	3	3.5	4
	kW	HP		8.3	16.7	25	33.3	41.7	50	58.3	66.7
EDH(m)2-20	0.37	0.5	H (m)	16.7	16.2	15	14	11	10.6	8.8	6.5
EDH(m)2-30	0.37	0.5		25.8	24.3	23.8	21.3	17	16.1	12.5	7.2
EDH(m)2-40	0.55	0.75		34.8	34.1	33.2	30.7	23	22.9	18.4	12.8
EDH(m)2-50	0.55	0.75		43.6	42.1	39.5	35.9	29	25.7	19.8	13.8
EDH(m)2-60	0.75	1.0		50.8	49.2	45.6	41.8	35	35.4	23.4	14.3

Dimension



Model	L	A	C	D	E	F	G	H	J	M	N	d	GW (Kgs)	L x W x H (mm)	Quantity (PCS/35TEU)
EDH(m)2-20	427	160	138	165	108	130	G1	218	110	φ195	103	9	10.7	465x225x270	1044
EDH(m)2-30	427	160	138	165	108	130	G1	216	110	φ195	103	9	11.1	465x225x270	1044
EDH(m)2-40	427	160	138	165	108	130	G1	216	110	φ195	103	9	12.4	465x225x270	1044
EDH(m)2-50	427	160	138	165	108	130	G1	218	110	φ195	103	9	12.8	465x225x270	1044
EDH(m)2-60	427	160	138	165	108	130	G1	216	110	φ195	103	9	13.8	465x225x270	1044

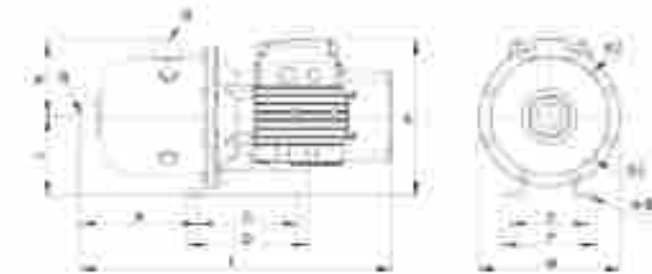
Hydraulic Performance Curves



Technical Data

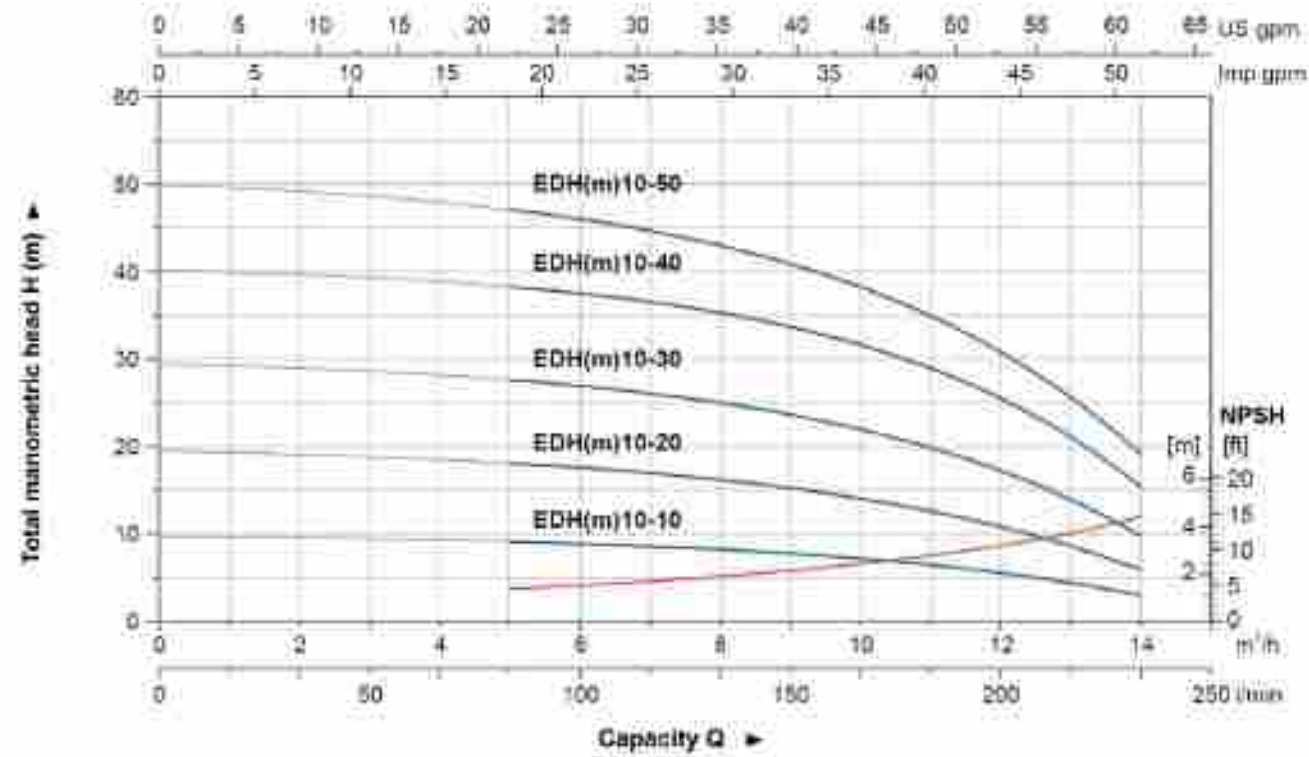
Model	Power		Q(m³/h) Q(l/min)	1	2	3	4	4.5	5	6	7
	kW	HP		17	33	50	67	75	83	100	117
EDH(m)4-20	0.55	0.75	H (m)	17.8	17.2	16.1	14.3	12	11.3	6.3	2.3
EDH(m)4-30	0.65	0.75		20.7	20.4	24.8	22.1	16	16.6	13.5	7.3
EDH(m)4-40	0.75	1.0		30.1	35.3	32.9	29.9	25	24.7	18.6	9.2
EDH(m)4-50	1.1	1.5		45.7	43.6	40.5	37	32	31.6	21.8	10
EDH(m)4-60	1.1	1.5		53.6	52	47	42.5	37	35	23	12

Dimension



Model	L	A	C	D	E	F	G	H	J	M	N	d	GW (Kgs)	L x W x H (mm)	Quantity (PCS/35TEU)
EDH(m)4-20	427	160	138	165	108	130	G1 1/2	216	110	φ195	103	9	11.5	465x225x270	1044
EDH(m)4-30	427	160	138	165	108	130	G1 1/2	216	110	φ195	103	9	12.9	465x225x270	1044
EDH(m)4-40	427	160	138	165	108	130	G1 1/2	216	110	φ195	103	9	13.8	465x225x270	1044
EDH(m)4-50	480	160	138	165	108	130	G1 1/2	245	120	φ195	103	9	18.2	515x225x297	870
EDH(m)4-60	480	160	138	165	108	130	G1 1/2	245	120	φ195	103	9	18.6	515x225x297	870

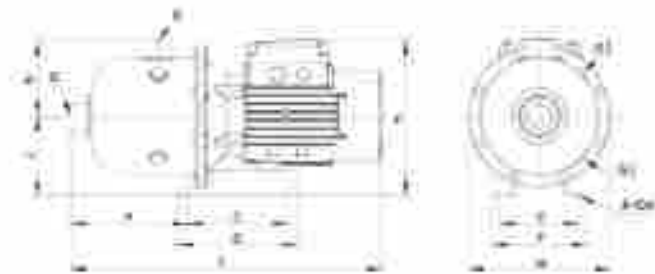
Hydraulic Performance Curves



Technical Data

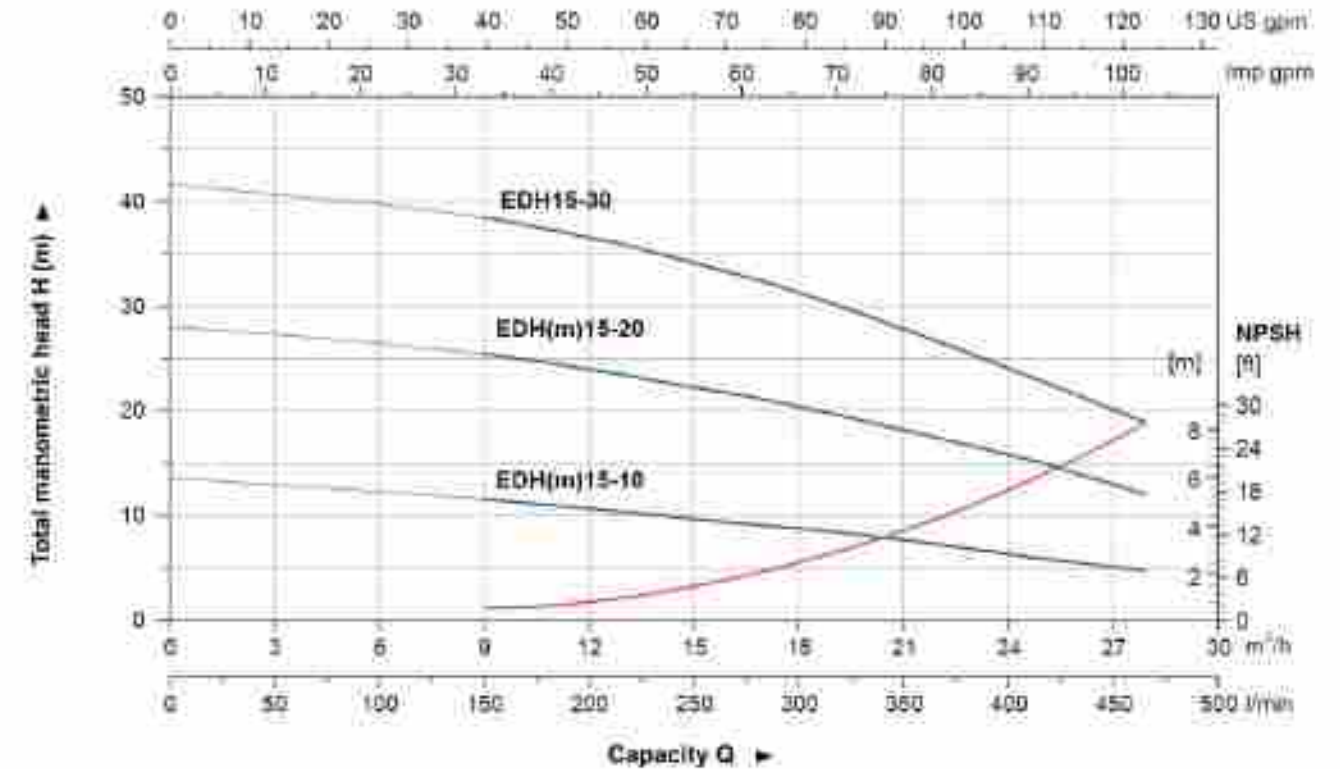
Model	Power		Q(m³/h) Q(l/min)	8	7	6	5	4	3	2	1	
	kW	HP		H (m)	100	117	133	150	167	183	200	217
EDH(m)10-10	0.75	1.0	H (m)	0.1	0.7	0.3	7.8	7.1	6.4	5.4	4.4	3.1
EDH(m)10-20	0.75	1.0		17.2	17.1	16.3	10.3	13.9	12.4	10.7	8.4	6.2
EDH(m)10-30	1.1	1.5		27.5	26.5	25.2	23.6	21.7	19.3	17	14	10
EDH(m)10-40	1.5	2.0		38.7	37.2	35.8	33.8	31.6	28.7	24.9	18.7	15.9
EDH(m)10-50	2.2	3.0		47.2	45.4	43.8	41	38.2	34.2	30	24.5	18

Dimension



Model	L	A	C	D	E	F	G	H	J	M	N	d	GW (kg)	L x W x H (mm)	Quantity (PCS/SET)
EDH(m)10-10	568	277	138	165	108	130	G2	245	120	φ233	140	8	21.5	610x265x317	540
EDH(m)10-20	568	277	138	165	108	130	G2	240	120	φ233	140	8	22	610x265x317	540
EDH(m)10-30	568	277	138	165	108	130	G2	245	120	φ233	140	8	23	610x268x317	540
EDH(m)10-40	628	285.5	138	165	108	130	G2	248	120	φ233	140	9	29	660x265x317	480
EDH(m)10-50	628	285.5	138	165	108	130	G2	248	120	φ233	140	9	30.7	660x265x317	480

Hydraulic Performance Curves



Technical Data

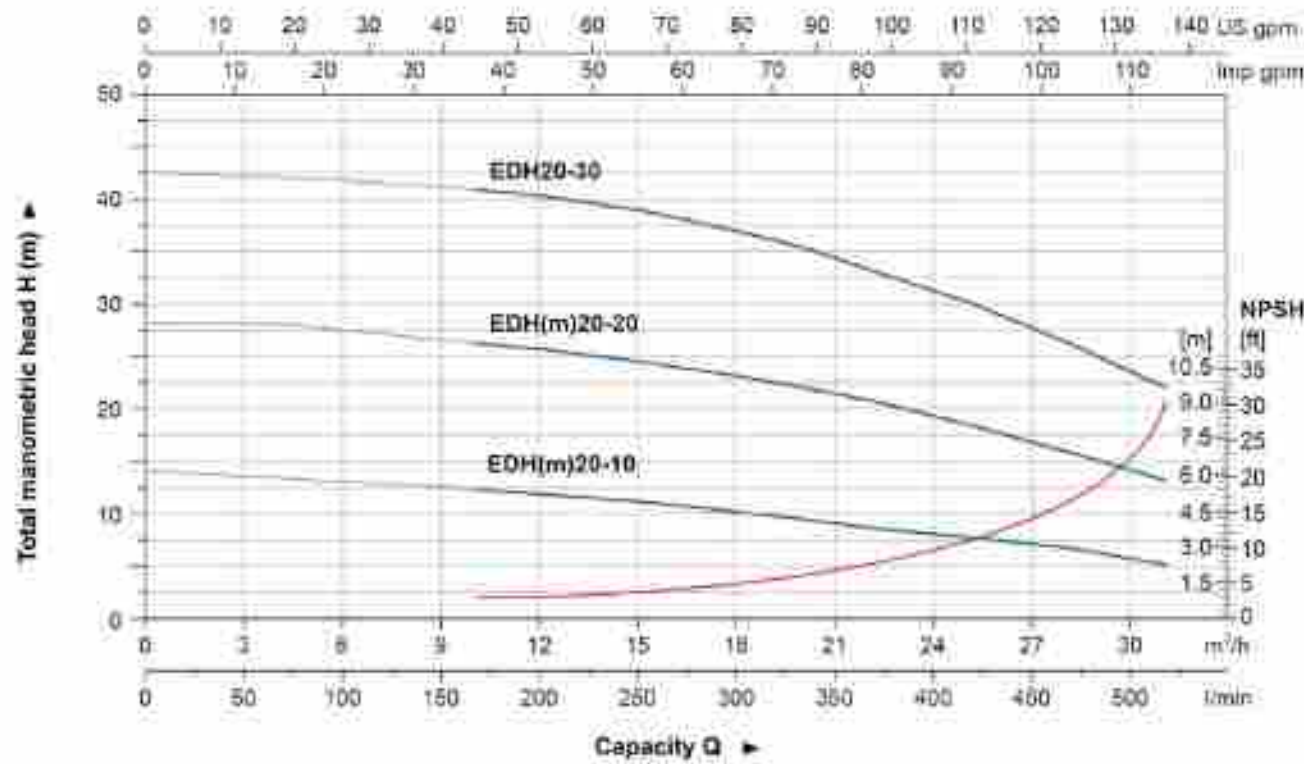
Model	Power		Q(m³/h) Q(l/min)	9	11	13	15	17	19	22	25	28
	kW	HP		H (m)	150	180	217	260	303	347	391	437
EDH(m)15-10	1.1	1.5	H (m)	11.6	11	10.4	9.7	9.1	8.5	7.7	6.9	6.0
EDH(m)15-20	2.2	3.0		25.4	24.5	23.4	22.2	21.1	19.7	17.4	15	12
EDH15-30	3.0	4.0		36.4	37.2	35.8	34.1	32.3	30.2	26.6	22.6	18.8

Dimension



Model	L	A	C	D	E	F	G	H	J	M	N	d	GW (kg)	L x W x H (mm)	Quantity (PCS/SET)
EDH(m)15-10	568	277	138	165	108	130	G2	245	120	φ233	140	8	20.5	610x265x317	540
EDH(m)15-20	628	285.5	138	165	108	130	G2	248	120	φ233	140	9	25.5	660x265x317	480
EDH15-30	628	285.5	138	165	108	130	G2	248	120	φ233	140	9	33	660x265x317	480

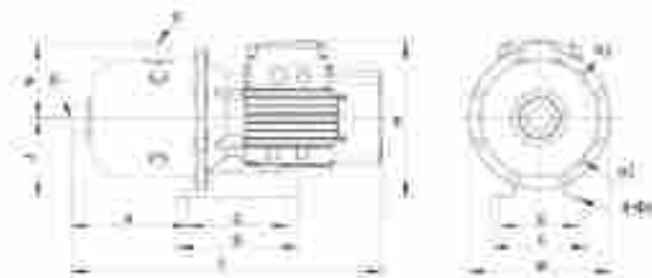
Hydraulic Performance Curves



Technical Data

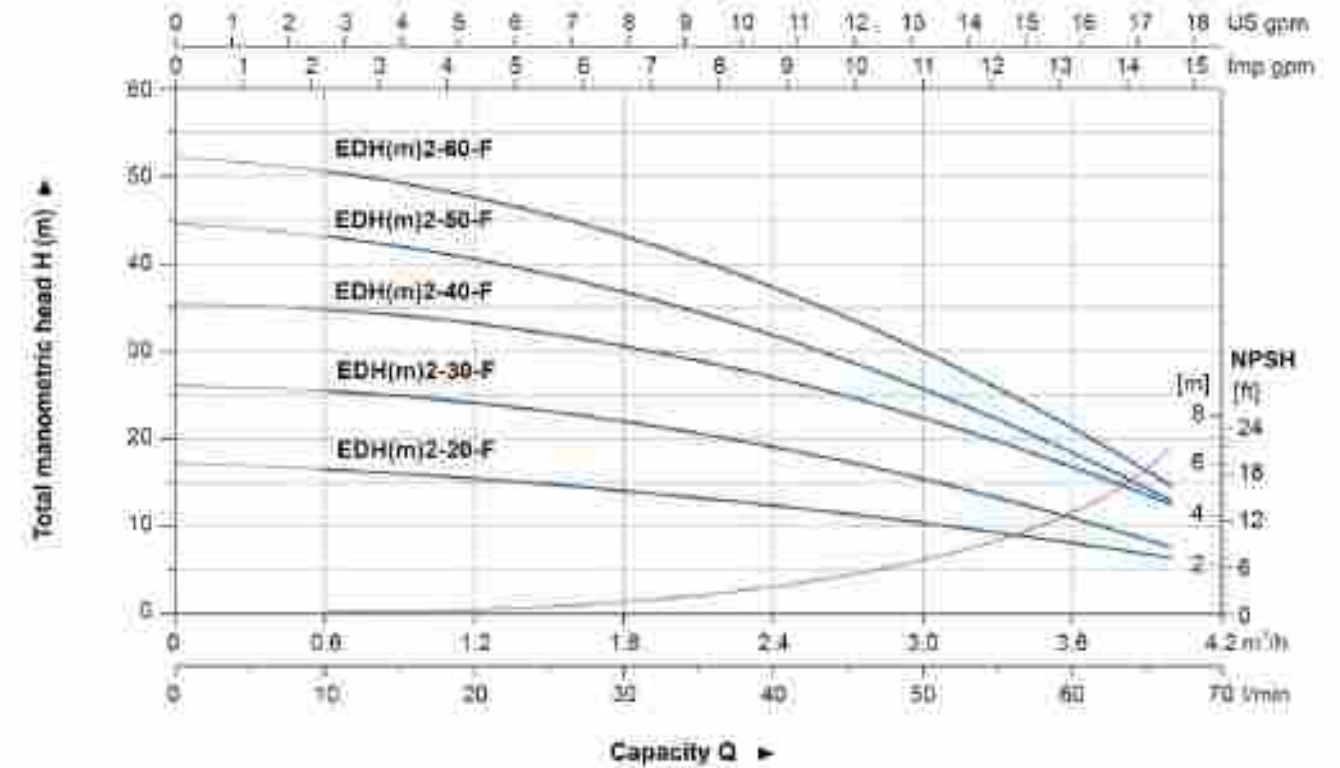
Model	Power		Q(m³/h) Q(l/min)	9	12	15	18	20	22	25	28	31
	kW	HP		H (m)								
EDH(m)20-10	1.1	1.5	H (m)	12.0	11.9	11.2	10.2	9.0	8.7	8	6.9	5.2
EDH(m)20-20	2.2	3.0		25.5	25.7	24.5	23.1	22	20.8	18.5	15.9	13.2
EDH20-30	4.0	5.5		41.2	40.3	38.9	36.9	35.3	33.2	30.1	26.3	22

Dimension



Model	L	A	C	D	E	F	G	H	J	M	N	d	GW (kg)	L x W x H (mm)	Quantity (PC/20/TEU)
EDH(m)20-10	568	277	138	166	108	130	G2	245	120	φ233	140	9	20.5	610x265x317	540
EDH(m)20-20	828	283.5	138	166	108	130	G2	245	120	φ233	140	9	28.8	860x265x317	480
EDH20-30	642	293	140	175	190	230	G2	240	120	φ233	140	12	37.5	675x265x317	480

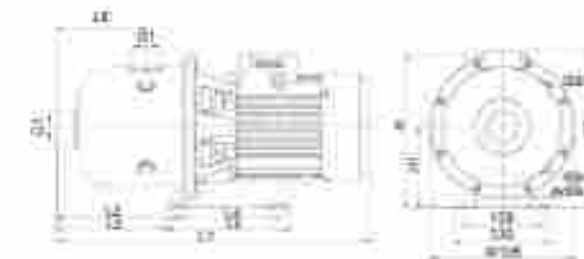
Hydraulic Performance Curves



Technical Data

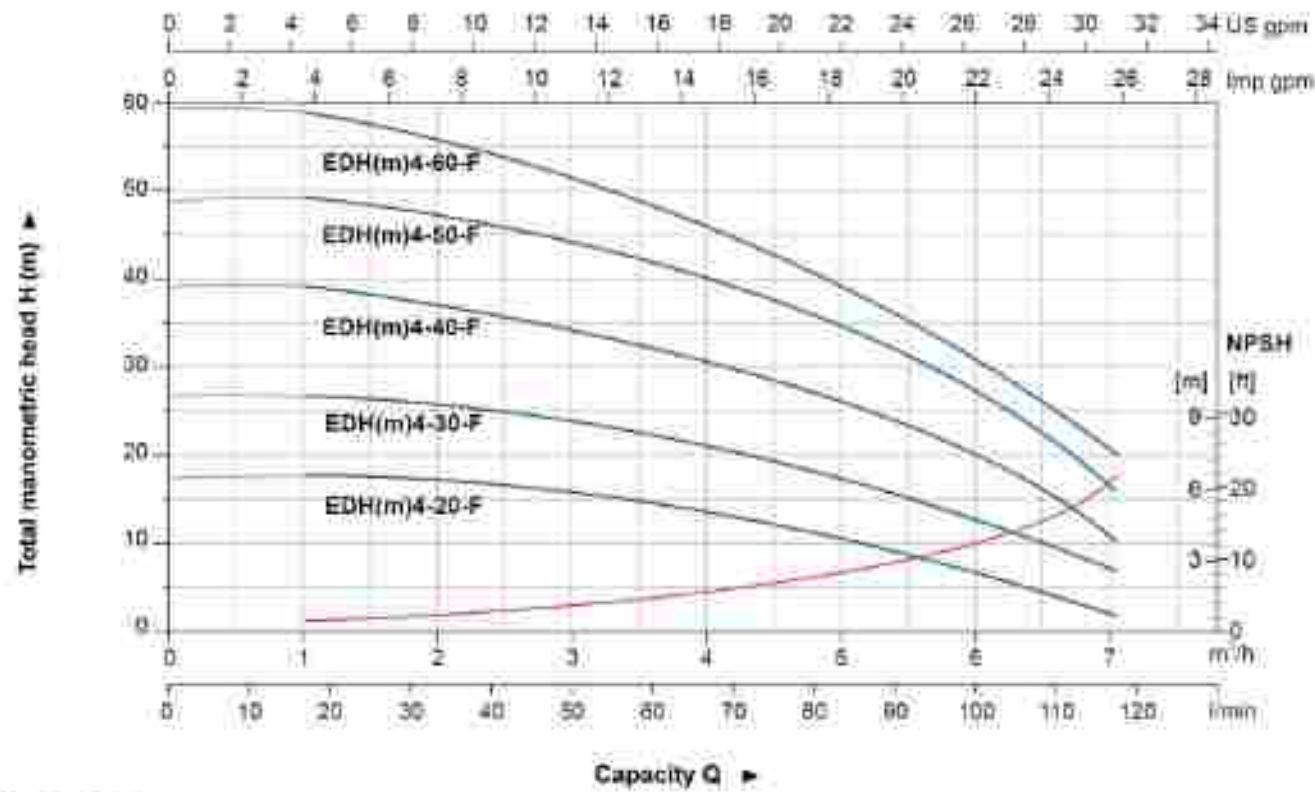
Model	Power		Q(m³/h) Q(l/min)	0.5	1	1.5	2	2.5	3	3.5	4
	kW	HP		H (m)							
EDH(m)2-20-F	0.37	0.5	H (m)	16.7	16.2	15	14	12	10.6	8.8	6.5
EDH(m)2-30-F	0.37	0.5		25.7	24.3	23.8	21.3	18	16.1	12.5	7.2
EDH(m)2-40-F	0.55	0.75		34.9	34.1	33.2	30.7	23	22.9	18.4	12.6
EDH(m)2-50-F	0.55	0.75		43.5	42.1	39.5	36.8	29	25.7	19.6	13.5
EDH(m)2-60-F	0.70	1.0		50.8	49.2	45.6	41.5	35	30.4	23.4	14.3

Dimension



Model	L1	L2	L3	L4	L5	L6	H		H1	H2	GW (kg)	L x W x H (mm)	Quantity (PC/20/TEU)
							1-	2-					
EDH(m)2-20-F	426	162	148.5	138	165	120	197.5	187	110	213	10.7	460x225x275	1044
EDH(m)2-30-F	426	162	148.5	138	165	120	197.5	187	110	213	11.1	460x225x275	1044
EDH(m)2-40-F	426	162	148.5	138	165	120	197.5	187	110	213	12.4	460x225x275	1044
EDH(m)2-50-F	426	162	148.5	138	165	120	197.5	187	110	213	12.8	460x225x275	1044
EDH(m)2-60-F	426	162	148.5	138	165	120	197.5	187	110	213	13.8	460x225x275	1044

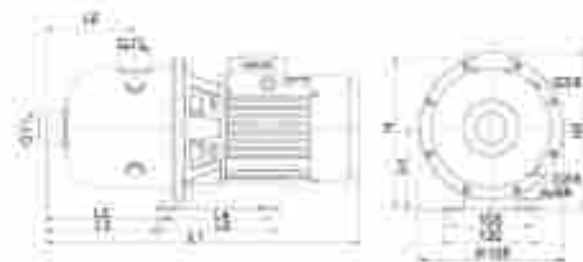
Hydraulic Performance Curves



Technical Data

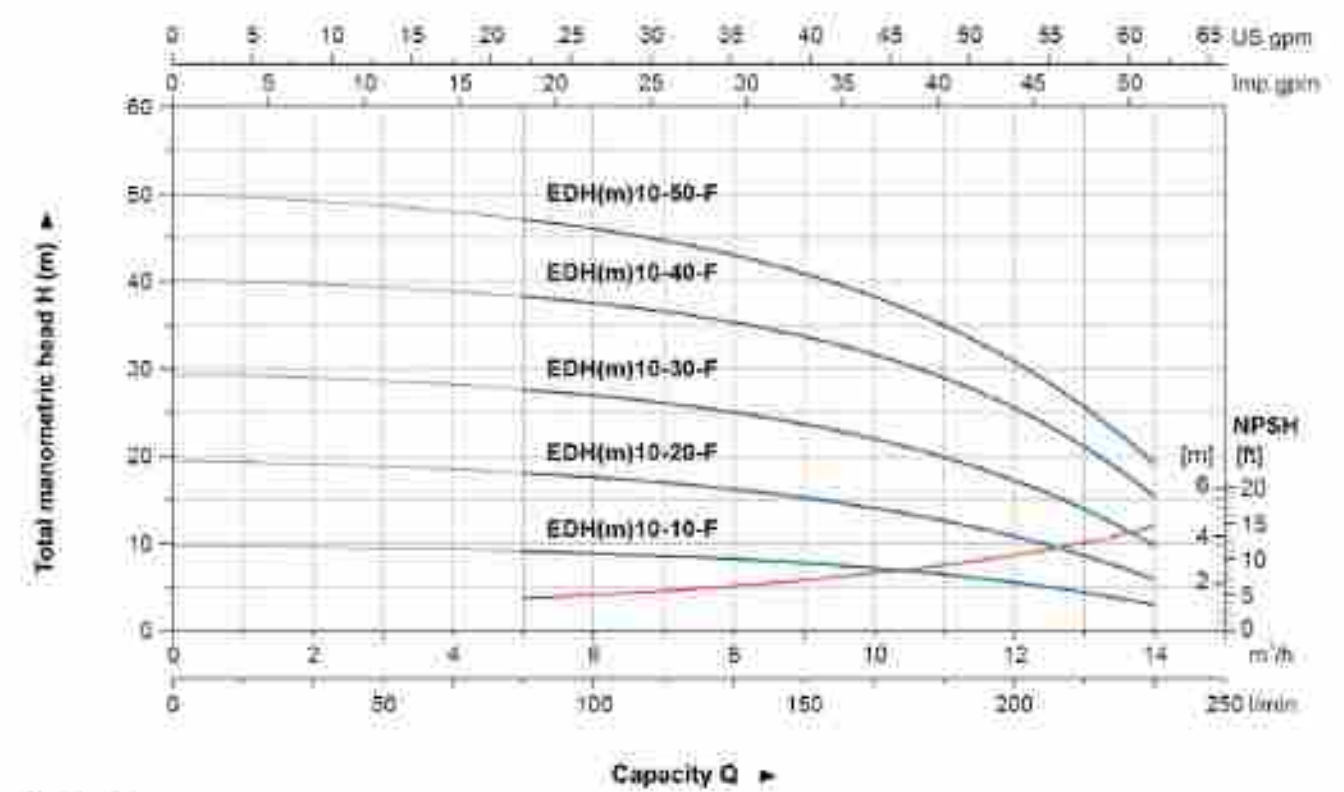
Model	Power		Q(m³/h) Q(l/min)	H (m)						
	kW	HP		1	2	3	4	4.5	5	6
EDH(m)4-20-F	0.55	0.75	17.6	17.3	16.1	14.3	12	11.3	8.3	2.3
EDH(m)4-30-F	0.55	0.75	26.7	26.4	24.6	22.1	18	16.8	13.5	7.3
EDH(m)4-40-F	0.75	1.0	39	37	34	31.5	28	27	20	11
EDH(m)4-50-F	1.1	1.5	49	47	44	41	37	35	27	17
EDH(m)4-60-F	1.1	1.5	59	55	52	47	43	39	29	20

Dimension



Model	L1	L2	L3	L4	L5	L6	H		H1	H2	GW (kg)	L x W x H (mm)	Quantity (PC/20"/12U)
							1-	3-					
EDH(m)4-20-F	429	165	151.5	138	165	123	197.5	187	110	215.5	11.0	460x225x275	1044
EDH(m)4-30-F	429	165	151.5	138	165	123	197.5	187	110	215.5	12.9	460x225x275	1044
EDH(m)4-40-F	429	165	151.5	138	165	123	197.5	187	110	215.5	13.8	460x225x275	1044
EDH(m)4-50-F	429	165	151.5	138	165	123	197.5	187	110	215.5	16.2	460x225x275	1044
EDH(m)4-60-F	429	165	151.5	138	165	123	197.5	187	110	215.5	16.6	460x225x275	1044

Hydraulic Performance Curves



Technical Data

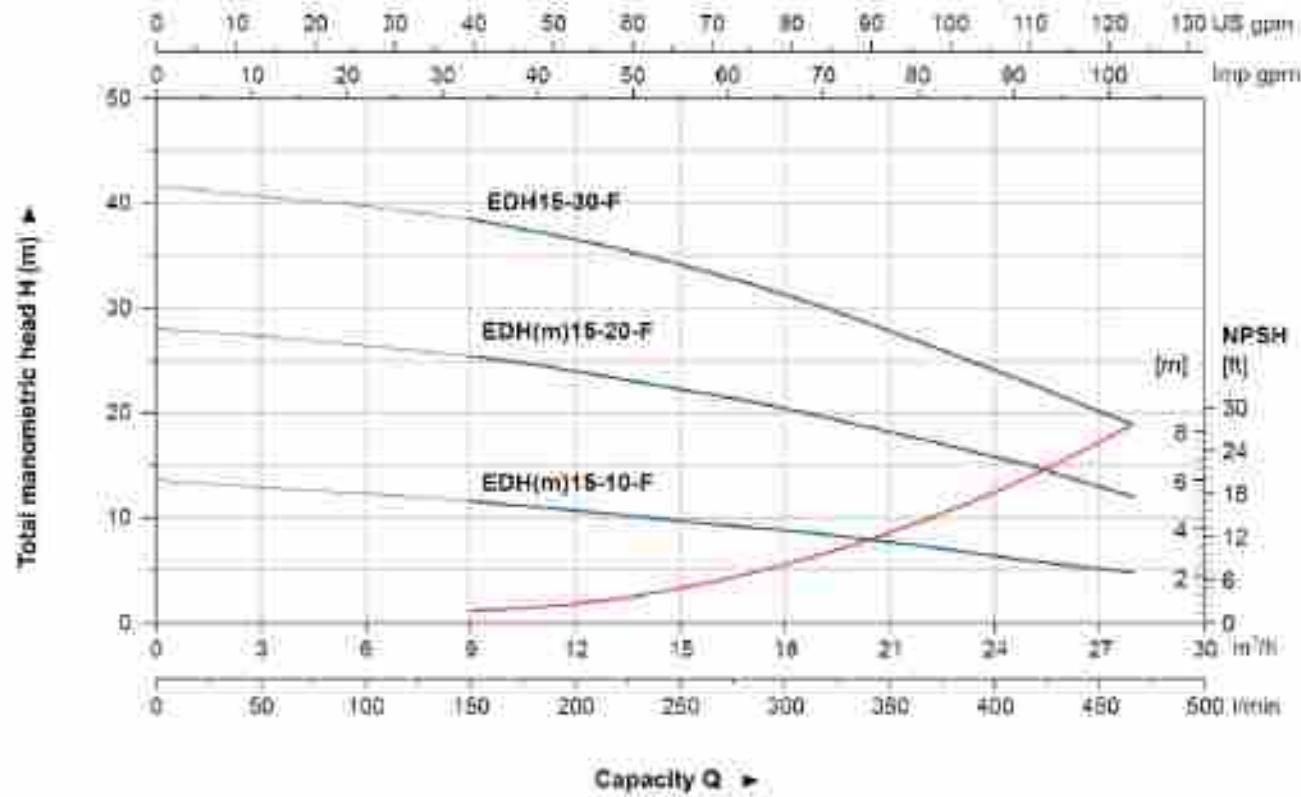
Model	Power		Q(m³/h) Q(l/min)	H (m)									
	kW	HP		5	7	8	9	10	11	12	13	14	
EDH(m)10-10-F	0.75	1.0	43	41	37	33	28	25	19	11			
EDH(m)10-20-F	0.75	1.0	61	57	53	48	42	36	28	18			
EDH(m)10-30-F	1.1	1.5	79	74	69	63	56	48	38	25			
EDH(m)10-40-F	1.5	2.0	97	91	85	78	69	59	47	32			
EDH(m)10-50-F	2.2	3.0	115	108	101	93	82	70	57	40			

Dimension



Model	L1	L2	L3	L4	L5	L6	H		H1	H2	GW (kg)	L x W x H (mm)	Quantity (PC/20"/12U)
							1-	3-					
EDH(m)10-10-F	507	268	273	140	170	188	232.5	229	120	260	21.5	610x265x317	540
EDH(m)10-20-F	557	268	273	140	170	188	232.5	226	120	260	22.0	610x265x317	540
EDH(m)10-30-F	557	268	273	140	170	188	232.5	226	120	260	23.0	610x265x317	540
EDH(m)10-40-F	600	268	273	140	170	188	236	230	120	260	23.0	660x265x317	480
EDH(m)10-50-F	600	268	273	140	170	188	242	230	120	260	30.7	660x265x317	480

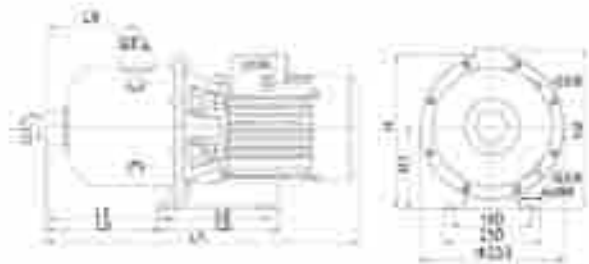
Hydraulic Performance Curves



Technical Data

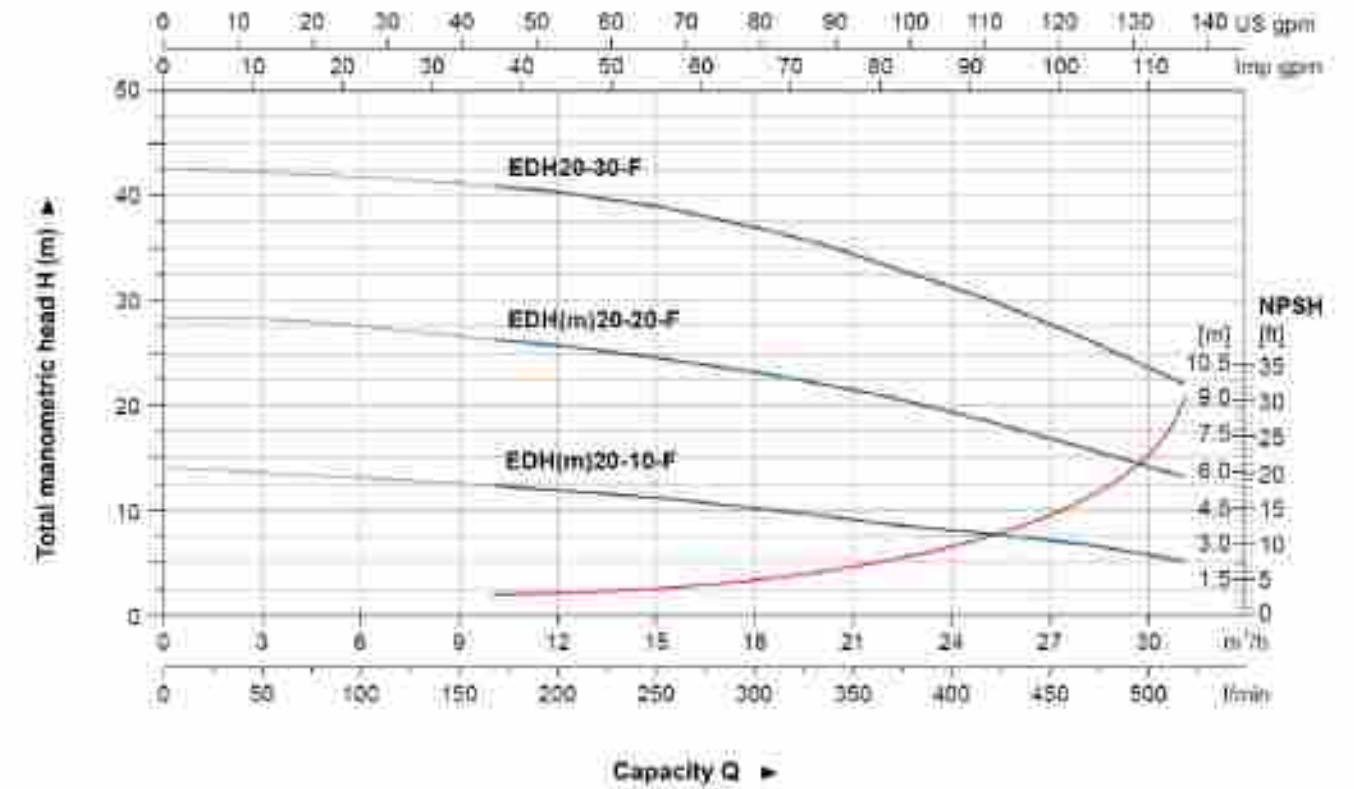
Model	Power		Q(m³/h) Q(l/min)	8	11	13	16	17	19	22	25	28
	kW	HP		H (m)	15.6	11	10.4	9.5	9.1	8.5	7.7	5.9
EDH(m)15-10-F	1.1	1.5	H (m)	26.4	24.5	23.4	32	21.1	19.7	17.4	15	12
EDH(m)15-20-F	2.2	3.0		38.4	37.2	35.9	34	32.3	30.2	26.6	22.9	18.8
EDH15-30-F	3.0	4.0										

Dimension



Model	L1	L2	L3	L4	L5	L6	H		H1	H2	GW (Kgs)	L x W x H (mm)	Quantity (PCS/20'TEUs)
							1-	2-					
EDH(m)15-10-F	557	288	273	140	170	188	232.5	228	120	260	20.5	610x265x317	540
EDH(m)15-20-F	600	288	273	140	170	188	242	230	120	260	28.8	680x265x317	480
EDH15-30-F	620	288	273	140	170	188	250	250	120	260	33	660x265x317	480

Hydraulic Performance Curves



Technical Data

Model	Power		Q(m³/h) Q(l/min)	8	12	15	18	20	22	25	28	31
	kW	HP		H (m)	12.4	11.9	11.2	10.2	9.3	8.7	8	6.8
EDH(m)20-10-F	1.1	1.5	H (m)	28.5	25.7	24.5	23.1	22	20.8	18.5	15.0	13.2
EDH(m)20-20-F	2.2	3.0		41.2	40.3	38.9	36.9	35	33.2	30.1	26.3	22
EDH20-30-F	4.0	5.5										

Dimension



Model	L1	L2	L3	L4	L5	L6	H		H1	H2	GW (Kgs)	L x W x H (mm)	Quantity (PCS/20'TEUs)
							1-	2-					
EDH(m)20-10-F	557	288	273	140	170	188	232.5	228	120	260	20.5	610x265x317	540
EDH(m)20-20-F	600	288	273	140	170	188	242	230	120	260	28.8	680x265x317	480
EDH20-30-F	620	288	273	140	170	188	250	250	120	260	33.5	675x265x317	480

Application

- It is applicable to household water supply, equipment support, pipeline pressurization, garden watering, vegetable greenhouse watering, fish farming and poultry raising, industrial and mining, water supply and drainage of enterprises and high-rise buildings, central air conditioner and centralized heating circulation system, etc.

Pump

- AISI304 welding shaft
- Max. liquid temperature: +60℃
- Altitude: up to 1000 m
- Max. inlet pressure: limited by Max. operating pressure
- Max. operation pressure: 8 bar
- Liquid PH Value: 6.5 - 8.5

Motor

- E2 motor
- Motor with copper winding
- Built-in thermal protector for single phase motor
- Insulation class: F
- Protection class: IPX4
- Max. ambient temperature: +40℃

Identification Codes

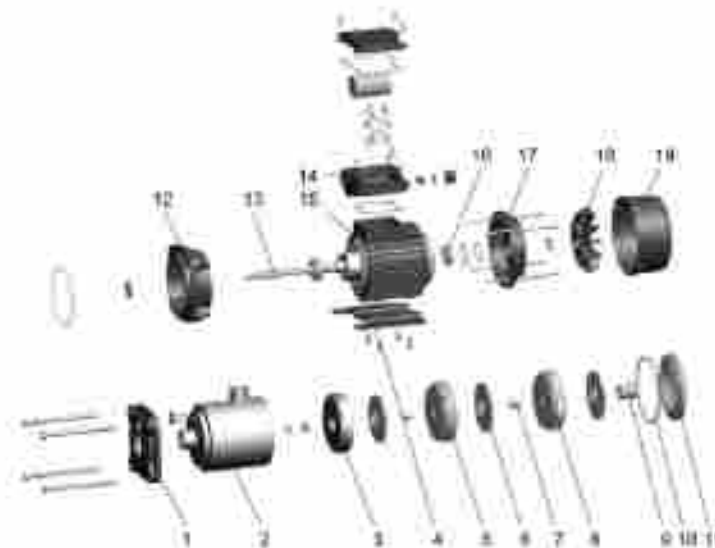
EMH (m) 2 - 60



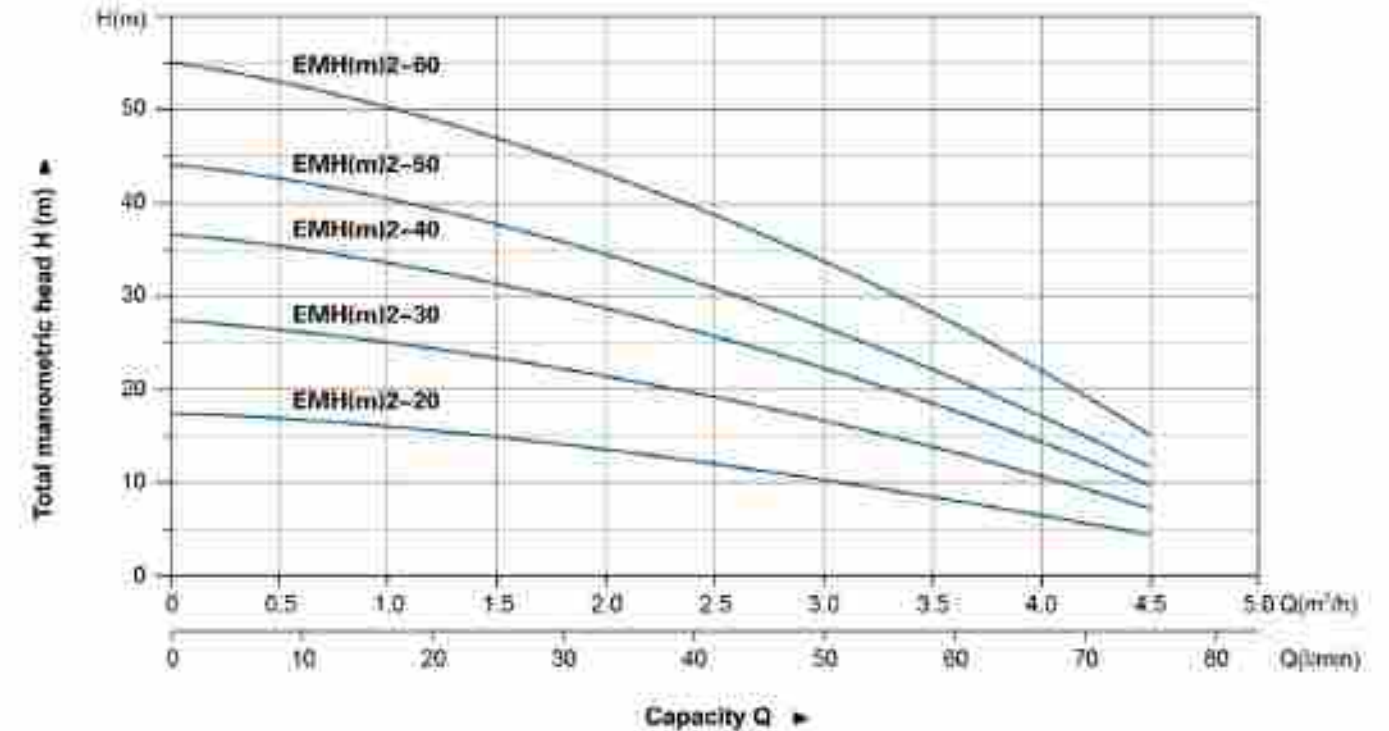
EMH

Materials Table

No.	Part	Material
1	Pump cover	ADC 12
2	Pump body	AISI 304
3	Diffuser 1	AISI 304
4	Base	Q235 Steel
5	Diffuser 2	AISI 304
6	Impeller	AISI 304
7	Sleeve	AISI 304
8	Diffuser 3	AISI 304
9	Mechanical seal	SiC/Carbon
10	O-ring	NBR
11	Bracket cover	AISI 304
12	Bracket	ADC 12
13	Flange	
14	Terminal block	
15	Stator	
16	Winding	
17	Rear cover	ADC 12
18	Flange	PP
19	Flange cover	PP



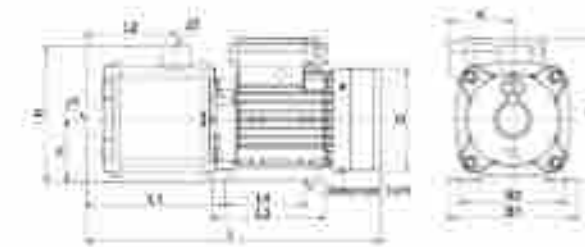
Hydraulic Performance Curves



Technical Data

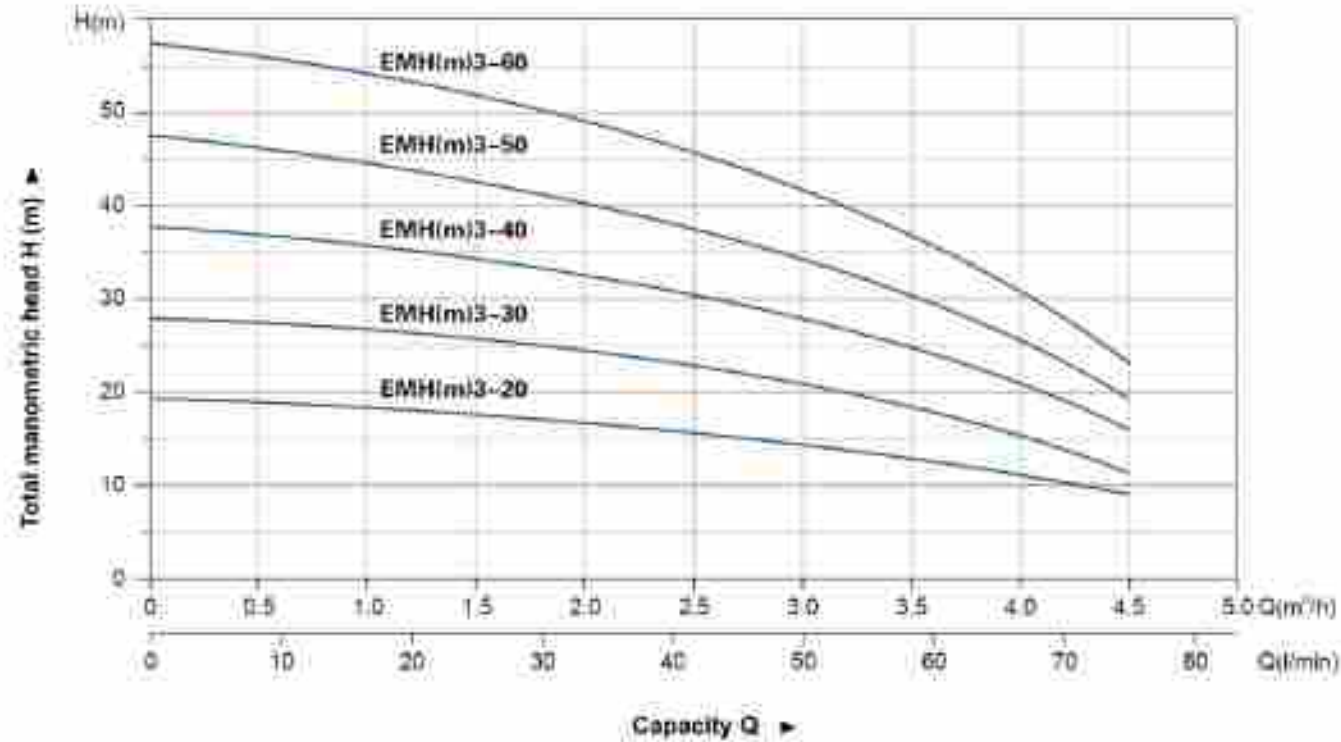
Model	Power		Q (m³/h) Q (l/min)	0	1	1.5	2	2.5	3	3.5	4	4.5
	kW	HP		0	16.7	25	33.3	41.7	50	58.3	66.7	75
EMH(m)2-20	0.25	0.33	H (m)	17	16	14.5	13.5	12	10.5	8.5	7	4.5
EMH(m)2-30	0.37	0.5		27	24.5	23	20.5	19	17	14	11	7
EMH(m)2-40	0.37	0.5		30	33	31	27.5	25.5	22.5	19	14.5	8.5
EMH(m)2-50	0.50	0.75		44	40	37	33.5	30.5	27	22.5	17	11
EMH(m)2-60	0.75	1.0		54	42.5	40	41.5	35.5	34	29	21.5	15

Dimension



Model	L	L1	L2	L3	L4	H	h	B1	B2	D	G		K	J1/J2	GW(kg)		L x W x H (mm)	Quantity (PC/200/1E10)
											1- / 3-	1- / 2-			1-	3-		
EMH(m)2-20	305	131	72	136	98	163	75	158	125	122	163/172.5	- / 76	G1/G1	7.6	7.2	344x189x232	1638	
EMH(m)2-30	305	131	72	136	98	163	75	158	125	122	163/172.5	- / 76	G1/G1	8.3	7.6	344x189x232	1638	
EMH(m)2-40	323	149	90	136	98	163	75	158	125	122	163/172.5	- / 76	G1/G1	9.7	7.7	362x189x232	1530	
EMH(m)2-50	354	167	108	136	98	163	75	158	125	122	163/172.5	- / 76	G1/G1	10.3	6.6	392x189x232	1458	
EMH(m)2-60	382	185	126	136	98	163	75	158	128	148.5	172/182.5	- / 89	G1/G1	12.4	11.4	420x214x247	1064	

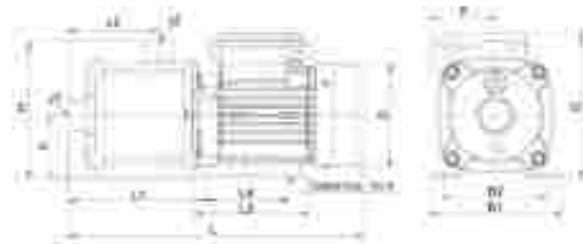
Hydraulic Performance Curves



Technical Data

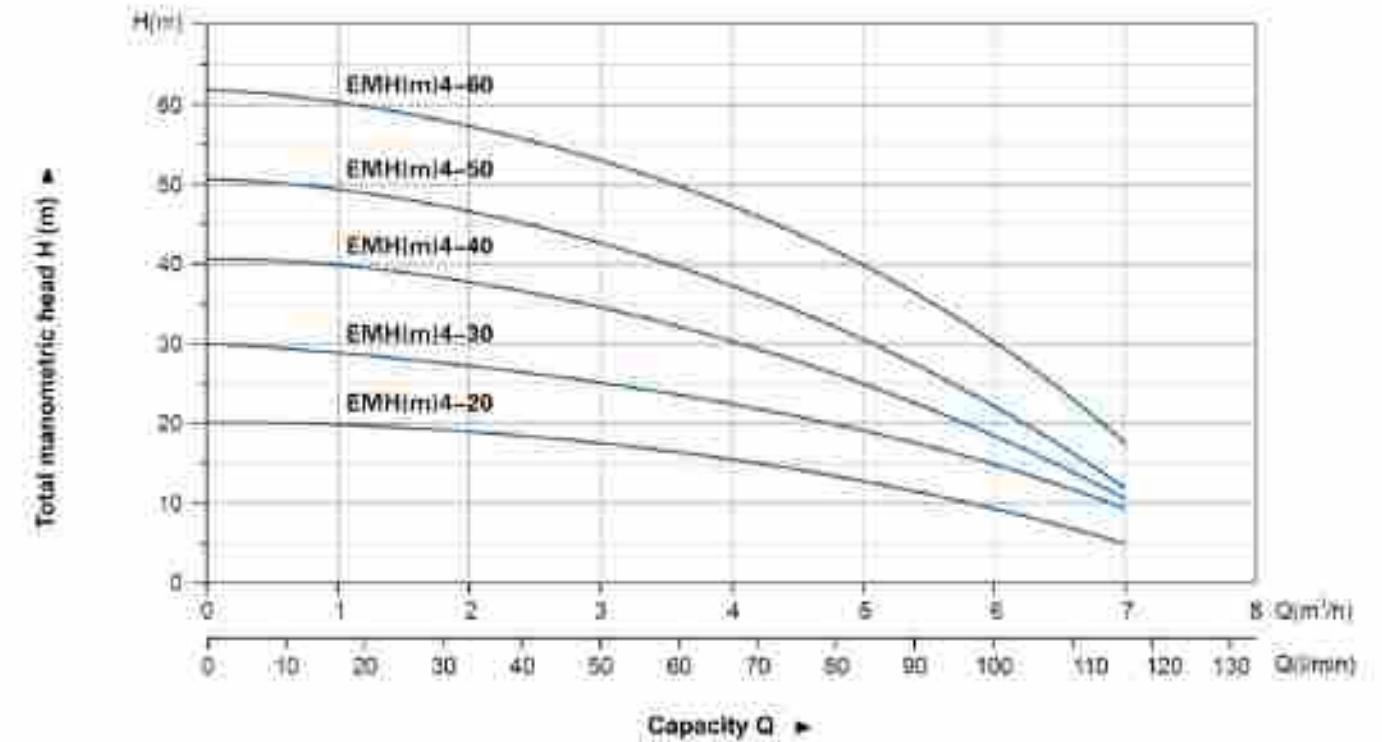
Model	Power		Q (m³/h) Q (l/min)	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5
	KW	HP		0	8.4	16.7	25	33.3	41.7	50	58.5	67	75
EMH(m)3-20	0.25	0.3	H (m)	19.5	18.5	18	17.5	16.5	15	14.5	13	11	9
EMH(m)3-30	0.37	0.5		29	27.5	26	25.5	24.5	23	21	19	10	12
EMH(m)3-40	0.55	0.75		38	36.5	35.5	34	32	30.5	28	26	21	18
EMH(m)3-50	0.75	1.0		47.5	46	44.5	42.5	40	37.5	34	29	24	19
EMH(m)3-60	1.1	1.5		57.5	55.5	53.5	52	49	45	42	35	29	23

Dimension



Model	L	L1	L2	L3	L4	H	h	B1	B2	D	G		K	J1/J2	GW(Kgs)		LxWxH (mm)	Quantity (PC/20/TEU)
											1- / 2-	1- / 2-			1-	2-		
EMH(m)3-20	305	131	72	108	96	163	75	158	125	122	163/172.5	-76	G1/G1	7.5	6.9	344*189*232	1638	
EMH(m)3-30	305	131	72	108	96	163	75	158	125	122	163/172.5	-76	G1/G1	7.9	7.9	344*189*232	1638	
EMH(m)3-40	336	149	90	138	96	163	75	158	125	122	163/172.5	-76	G1/G1	9.1	8.5	374*189*232	1485	
EMH(m)3-50	354	167	108	138	96	163	75	158	125	122	163/172.5	-76	G1/G1	10.4	9.3	392*189*232	1458	
EMH(m)3-60	382	185	126	138	96	163	75	158	125	146.5	172/192.0	-89	G1/G1	11.7	11.3	420*214*247	1004	

Hydraulic Performance Curves



Technical Data

Model	Power		Q (m³/h) Q (l/min)	0	1	2	3	4	4.5	5	6	7
	KW	HP		0	16.7	33.3	50	67	75	83	100	117
EMH(m)4-20	0.37	0.5	H (m)	20	19.5	18.5	17	16.5	15.5	13	9.5	5
EMH(m)4-30	0.55	0.75		30	29	27.4	25	22.5	21	18.5	13	10
EMH(m)4-40	0.75	1.0		40	38.5	36.8	34.5	30.5	28	26	18	10
EMH(m)4-50	0.95	1.3		50	47.5	45.5	42.5	37.5	35.5	32	23	12
EMH(m)4-60	1.1	1.5		61.5	59	56	53	47.5	45	41	30.5	17

Dimension



Model	L	L1	L2	L3	L4	H	h	B1	B2	D	G		K	J1/J2	GW(Kgs)		LxWxH (mm)	Quantity (PC/20/TEU)
											1- / 2-	1- / 2-			1-	2-		
EMH(m)4-20	300.5	134	75	108	96	163	75	158	125	122	163/172.5	-76	G1/G1	8	7.5	344*189*232	1638	
EMH(m)4-30	321	134	75	108	96	163	75	158	125	122	163/172.5	-76	G1/G1	8.7	8	307*189*232	1000	
EMH(m)4-40	349	152	93	138	96	163	75	158	125	146.5	172/192.5	-89	G1/G1	11	9.9	384*214*247	1130	
EMH(m)4-50	387	170	111	138	96	163	75	158	125	146.5	172/192.5	-89	G1/G1	12.2	10.8	402*214*247	1104	
EMH(m)4-60	411	186	129	158	125	178	90	178	140	167	203/212	-105.5	G1/G1	16.5	13.1	446*244*272	864	



0.75kw-7.5kw



9.2kw-55kw

EST

Application

- Circulation and transfer of clean, chemically non-aggressive water and other liquids
- Water supply & irrigation
- Water circulation in air conditioning systems

Operating Conditions

- Delivery: up to 220 m³/h
- Head: up to 95 m
- Liquid temperature
- Standard: +10°C to 85°C
- Maximum operating pressure: 12 bar (PN12)
- Anti-clockwise rotation when facing pump's suction port
- Impeller: AISI304/HT200
- Mechanical seal in compliance with DIN 24060
- Lubricated by internal recirculating pumped liquid
- Counter flange available on request

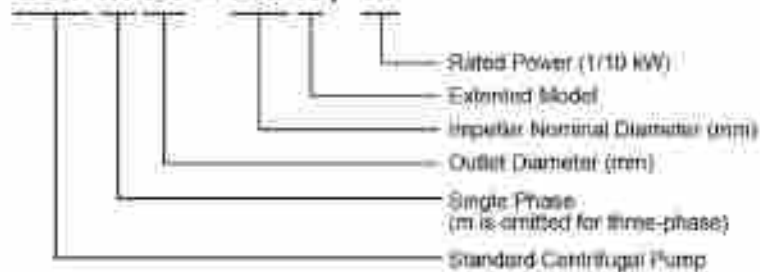
Motor

- Closed construction, external ventilation
- Insulation class: F
- Protection class: IP54
- Performance in compliance with CEI 2-3 (IEC 34.1)
- Max.ambient temperature: +40°C
- Overload protection
- For model that ≥9.2kw. Equipped with IE2 motor, IE3 motor available on request.

For model that <7.5kw, the following 4 models can equiped with IE3 motor (X5T40-160/30- X5T40-160/40- X5T50-160/55- X5T50-160/75)

Identification Codes

EST m 32 - 125 K / 11



Construction Features

- Single-impeller centrifugal pump featuring axial intake and radial discharge
- Inlet and outlet DN in compliance with EN 733 (ex DIN 24255) and UNI 7467
- Flanges in compliance with UNI 22381 and DIN 2532, rear entry (impeller, control valve and motor can be extracted without disconnecting the pump body from the pipes)

Materials Table

0.75kw-7.5kw

No.	Part	Material
1	Flange	HT200
2	Pump body	HT200
3	Impeller	HT200 / AISI304
4	Mechanical seal	Carbon/Silicon carbide
5	O-ring	NBR
6	Pump support	HT200
7	Fan cover	DBF
8	Fan	PP
9	Fan cover	ZL102
10	Support	HT200
11	Stator	
12	Bearing	
13	Wax	
14	Bearing	
15	Oil seal	

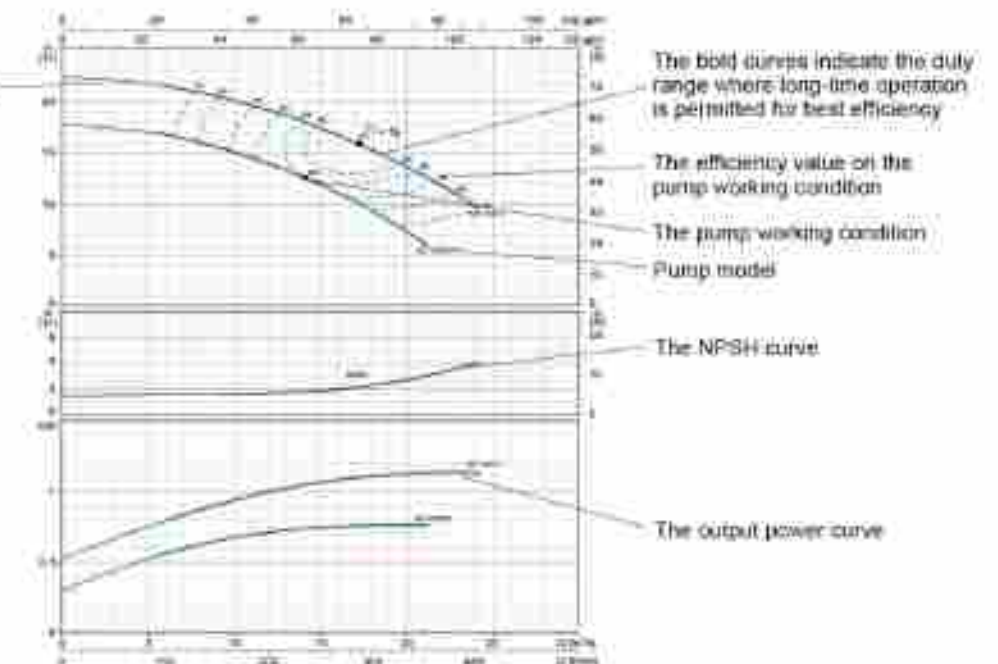
9.2kw-55kw

No.	Part	Material
1	Flange	HT200
2	Pump body	HT200
3	O-ring	NBR
4	Impeller	HT200 / AISI304
5	Mechanical seal	Carbon/Silicon carbide
6	Guarding plate	GGC10P410
7	Pump support	HT200
8	Pump shaft	450Cr15NiSi
9	Wax	



How to Read the Curve Charts

The thin curves indicate the duty range where long-time operation is not allowed



Guidelines to Performance Curves

Tolerances to ISO 9006, Annex A. Measurements have been made with stillness water at a temperature of 20°C and kinematic viscosity of 1 mm²/s. To avoid overheating of the motor, the pump should not be use against a high head for a long time.

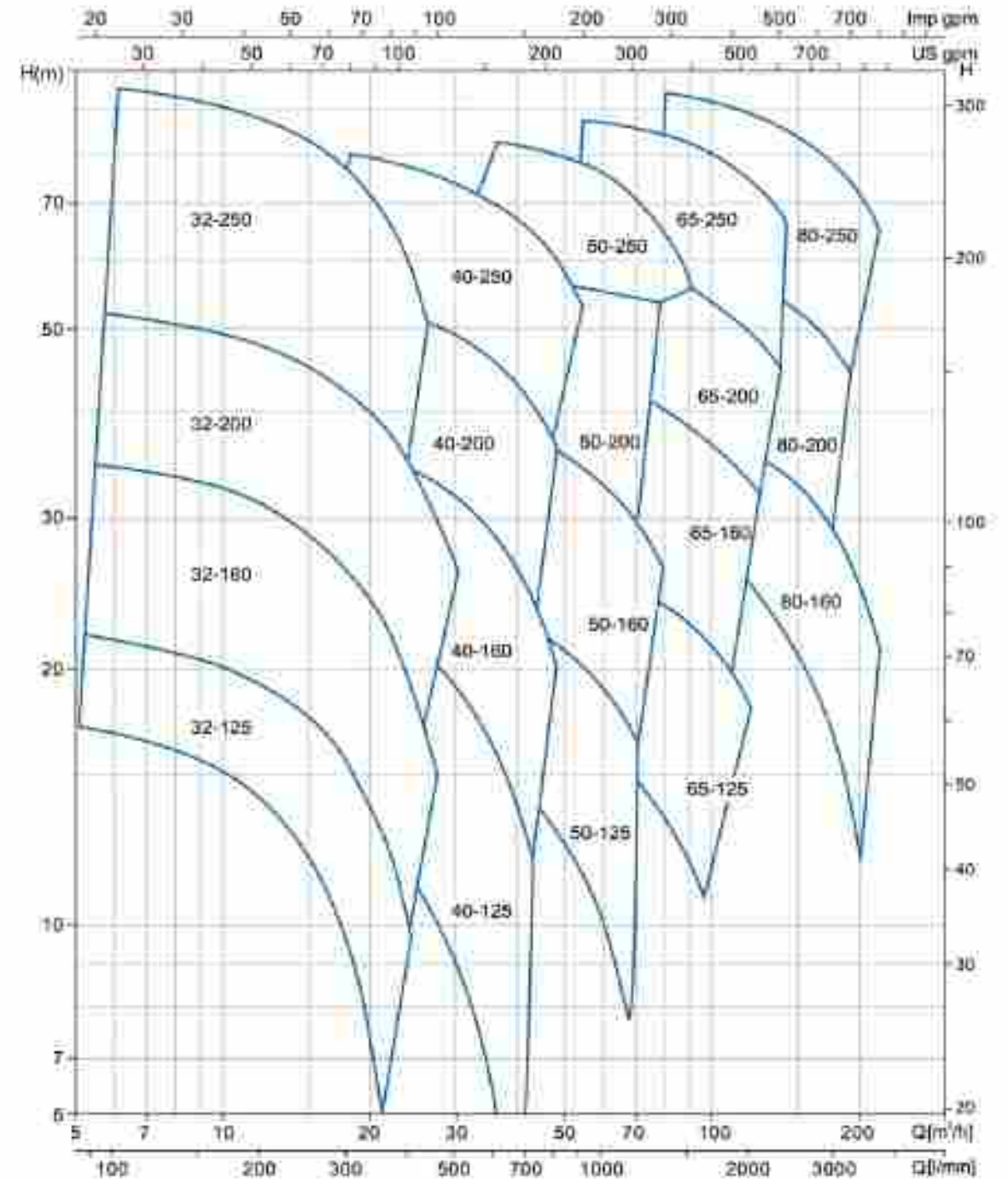
Technical Data

PUMP TYPE	POWER		Q/min	Q=DELIVERY																							
	kW	HP		0	100	150	200	250	300	400	450	500	600	700	800	900	1000	1200	1400	1500	1800	2000	2300	3000	3600		
32-125/7 [△]	0.75	1		17.5	16.7	15	12	9																			
32-125/11 [△]	1.1	1.5		22	21	20.2	17	15	9																		
32-160/15 [△]	1.5	2		24	23.7	22.5	19.5	16.2																			
32-160/22 [△]	2.2	3		31	29.6	29	25.5	22.5	15																		
32-160/30 [△]	3	4		34.5	33.5	33	29	26.5	20	16.5																	
32-200/30 [△]	3	4		43.2	42	40.5	35.2	32.2	24.6	19.8																	
32-200/40 [△]	4	5.5		52	50.8	50	45	41.8	35	30.3																	
32-250/50 [△]	5.5	7.5		79	77.7	71.8	63	56	37.5																		
32-250/75 [△]	7.5	10		95	92	89	82	75	67.8																		
40-125/11 [△]	1.1	1.5		14.7				13	11.5	10.1																	
40-125/15 [△]	1.5	2		18.1				17	15	13.8																	
40-125/22 [△]	2.2	3		24.5				23.2	21.5	20.2	16	12															
40-160/30 [△]	3	4		31.6				29	27.5	26.3	21.5	17.5															
40-160/40 [△]	4	5.5		38				36	34	33	28.5	25	20.1														
40-200/55 [△]	5.5	7.5		44				42	40	38	32	27															
40-200/75 [△]	7.5	10		55				52	49	48	42	37	32														
40-250/102 [△]	11	15		64				59	56.5	55	49.5	45	39.8														
40-250/110 [△]	11	15		72				67.5	65	63.5	57.5	52.2	47														
40-250/150 [△]	15	20		82				79	77.3	76.3	71	66	60.5														
50-125/22 [△]	2.2	3		17							16.4	14	12.8	11.5													
50-125/30 [△]	3	4		20							18.8	16	17	15.6													
50-125/40 [△]	4	5.5		24							23.1	22.6	21.5	20.3	19.8												
50-160/55 [△]	5.5	7.5		32							30.8	30	28	26.6	26.5												
50-160/75 [△]	7.5	10		40							38	37	36	34.4	34												
50-200/92 [△]	11	15		50.5							48.8	45	43	40.9	42.5												
50-200/110 [△]	11	15		57.5							53.5	52	50	47.5	49												
50-250/150 [△]	15	20		68.5							64	63	61.5	59	59	41											
50-250/180 [△]	18.5	25		77							73.2	72	70	68	66.5	61.5											
50-250/200 [△]	22	30		86.3							83	81.5	80	78	76	61											
65-125/40 [△]	4	5.5		19							17.3	16.8	14.5	13	11.8												
65-125/55 [△]	5.5	7.5		23							21.3	20.9	19	17.5	16.7	13.7											
65-125/75 [△]	7.5	10		27							26	25.8	24.5	23	22.5	20	18										
65-160/92 [△]	11	15		33							31.5	30	28	27.1	24	21.5											
65-160/110 [△]	11	15		36							34.5	33	31.5	30.8	28	25.6											
65-160/150 [△]	15	20		42							41	40	38.5	37.8	35	33											
65-200/150 [△]	15	20		45.5							46	43.5	41	39.2	33												
65-200/185 [△]	18.5	25		53							53.5	51.2	48.3	47	41.5												
65-200/220 [△]	22	30		59							59.5	57.2	54	53	47	43.5											
65-200K/185 [△]	18.5	25		41.2									42	41.2	40.8	38.2	36.5	34									
65-200K/220 [△]	22	30		48										48	47.5	46	44	41									
65-200K/300 [△]	30	40		59.5										59	58.5	58	56.2	54									
65-250/220 [△]	22	30		62							61.5	58.2	56.5	54	49	45											
65-200/300 [△]	30	40		76							75	73	70	69	64	61	54										
65-250/370 [△]	37	50		90							88	86	84	82	78	74	68										
80-160/110 [△]	11	15		27										27.3	26	24.5	22.5	18									
80-160/150 [△]	15	20		32.8										32.5	31.3	30.2	28	22.1	16.7								
80-160/185 [△]	18.5	25		39										38	36.8	35.7	33.8	28.8	23.8								
80-200/220 [△]	22	30		48										47.5	46	43.5	41	32.5									
80-200/300 [△]	30	40		60										59.5	58	57	54.5	47									
80-250/370 [△]	37	50		71.5										70.5	67.5	65.5	61.5	49.5	38								
80-250/450 [△]	45	60		82										80.5	78.5	76.5	72	62	51								
80-250/550 [△]	55	75		95										93.5	91.2	89.8	86.8	77.6	68.3								

△ AISI304 Impeller △ Double AISI304 Impeller
 Models marked with * have both single phase and three phase type, other models only have three phase type

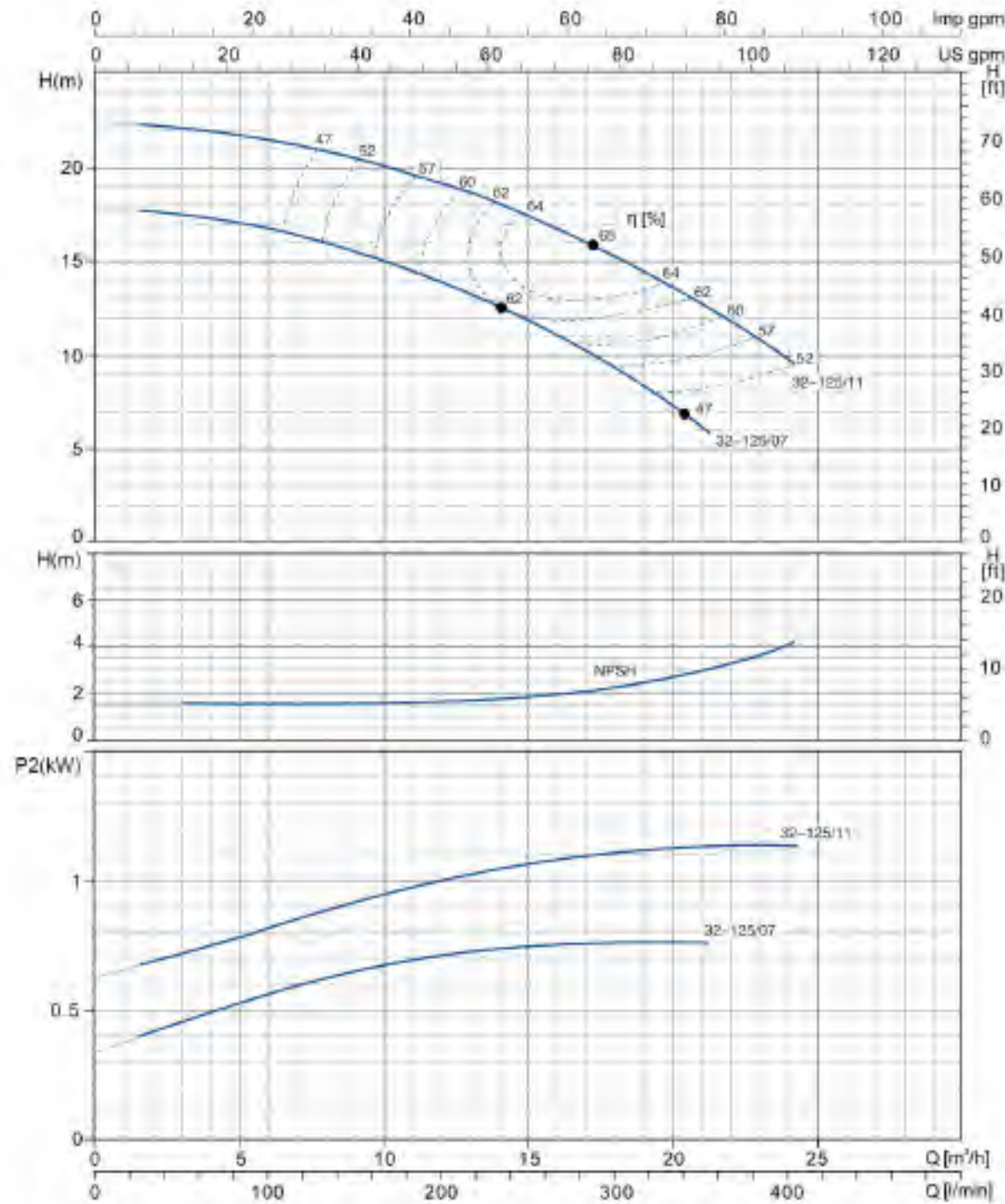
Characteristic Curves

EST	-2900 rpm	ISO 9906 Annex A
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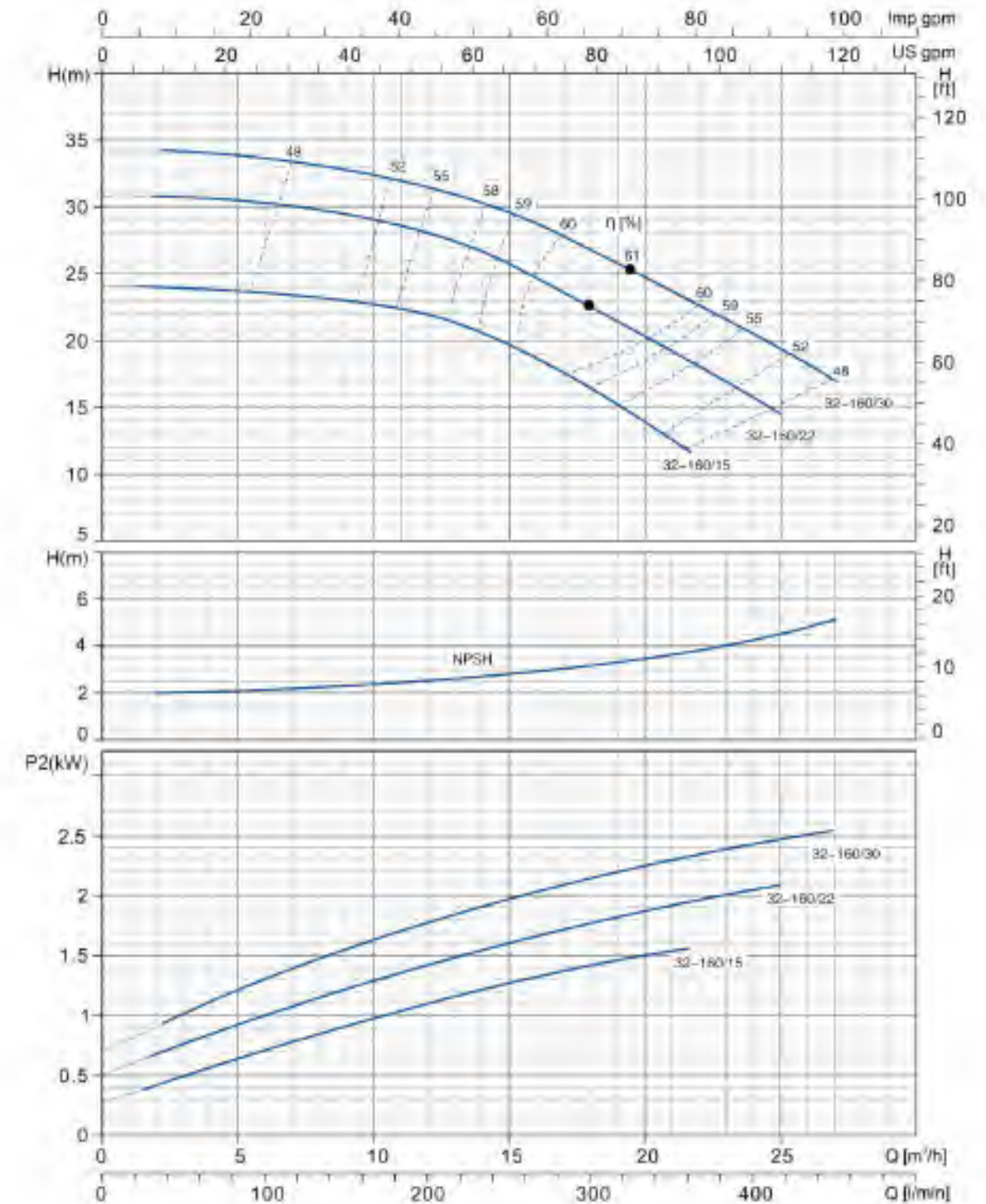
Hydraulic Performance Curves

EST 32-125	~2900 rpm	ISO 9906 Annex A
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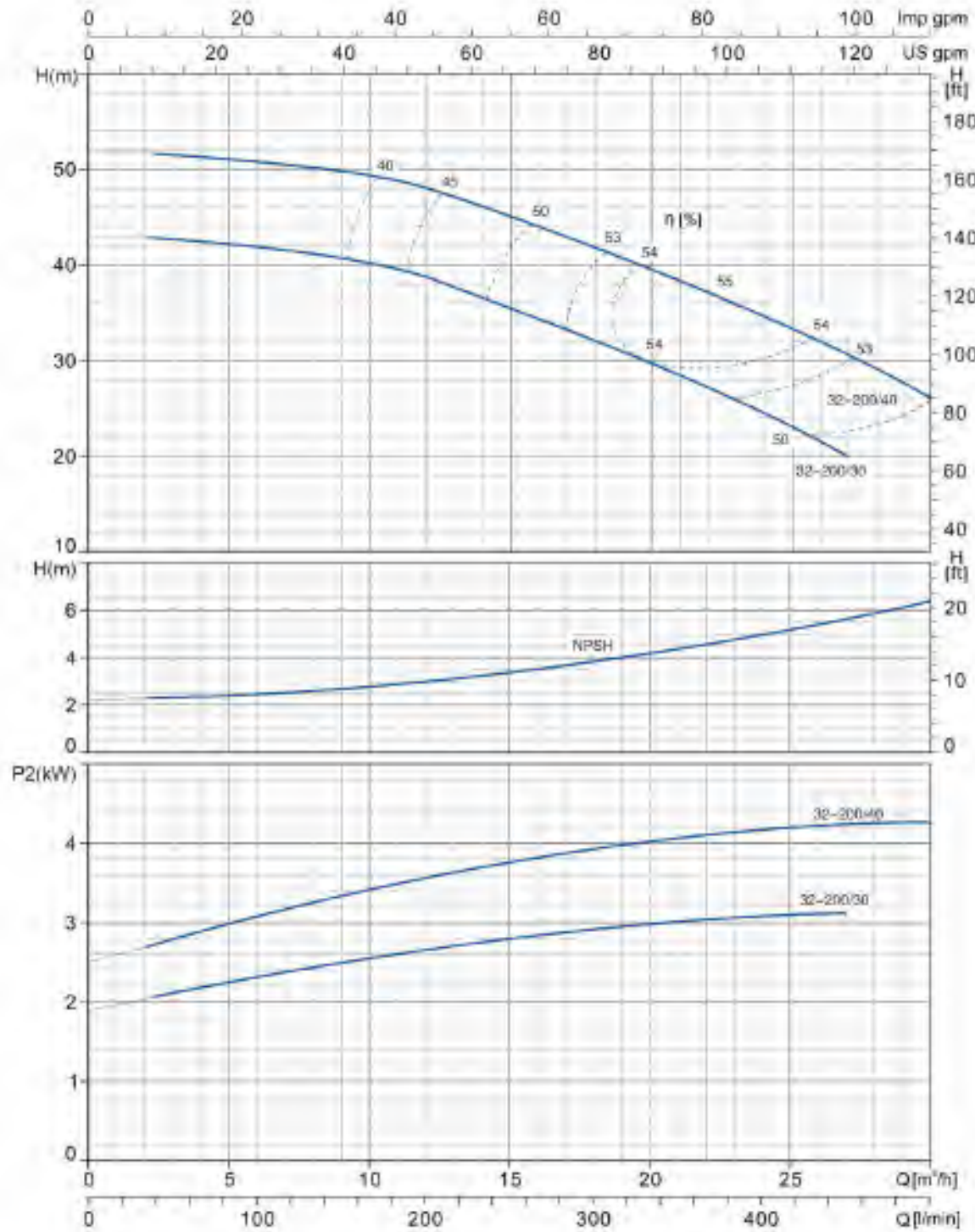
Hydraulic Performance Curves

EST 32-160	~2900 rpm	ISO 9906 Annex A
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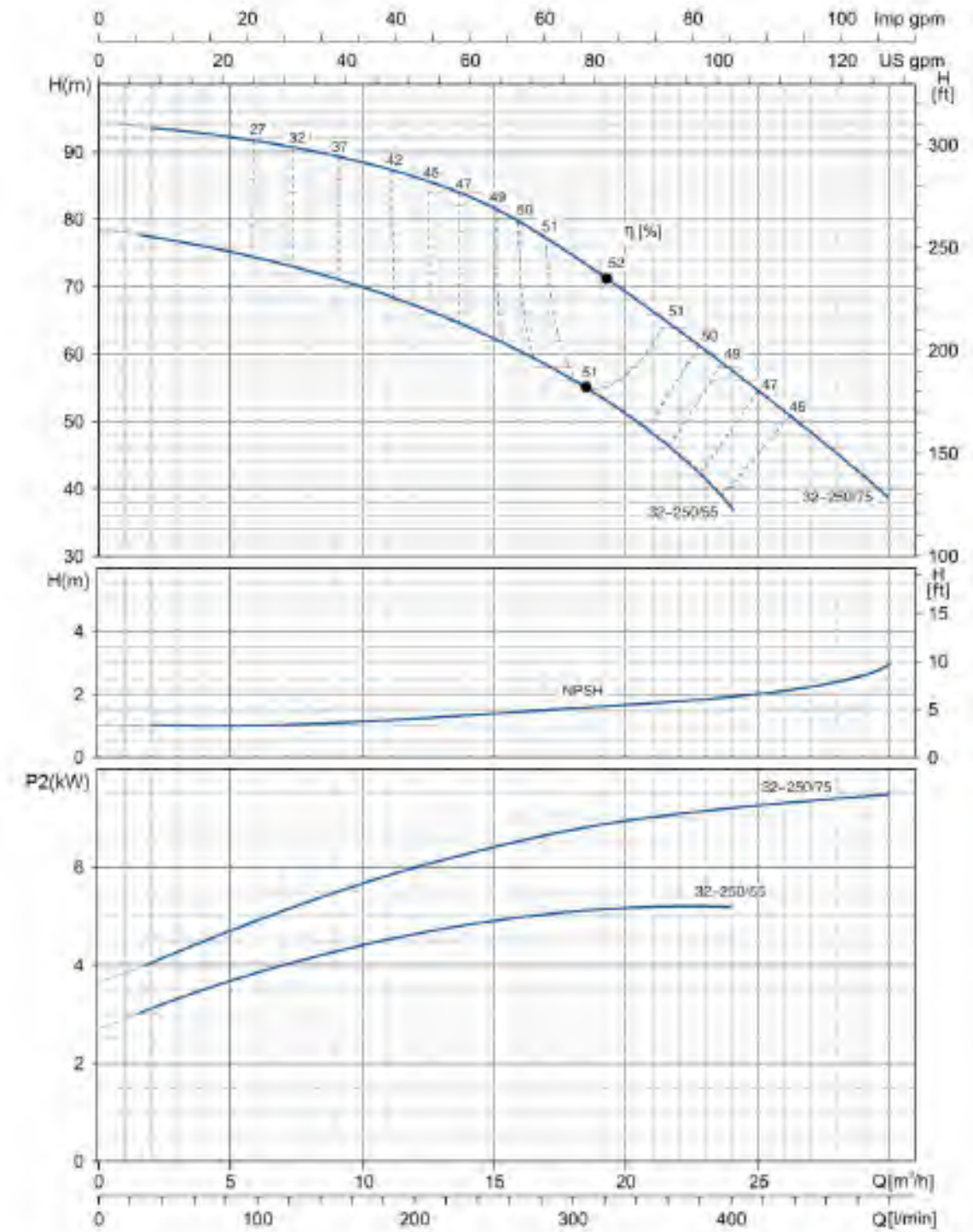
Hydraulic Performance Curves

EST 32-200	~2900 rpm	ISO 9906 Annex A
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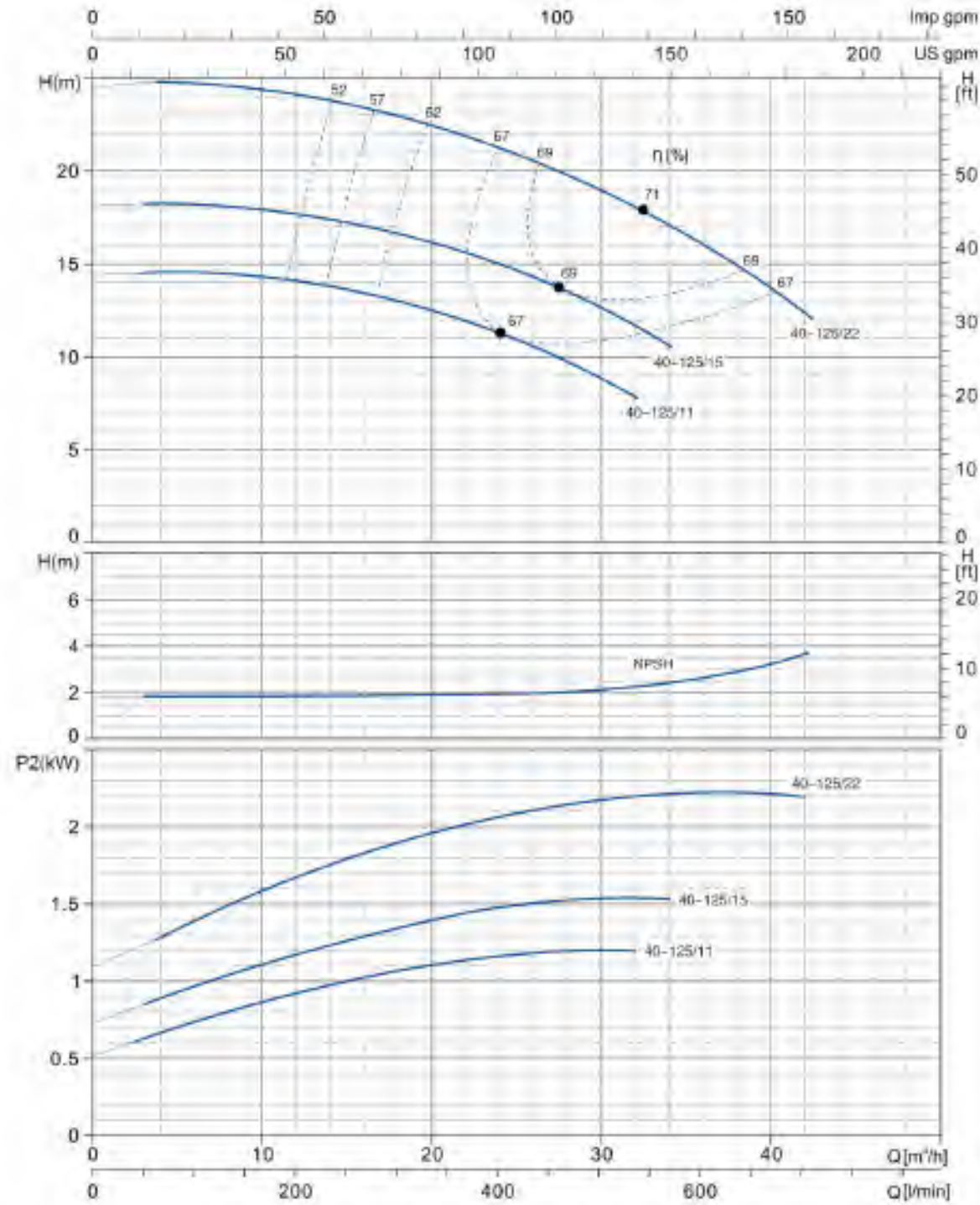
Hydraulic Performance Curves

EST 32-250	~2900 rpm	ISO 9906 Annex A
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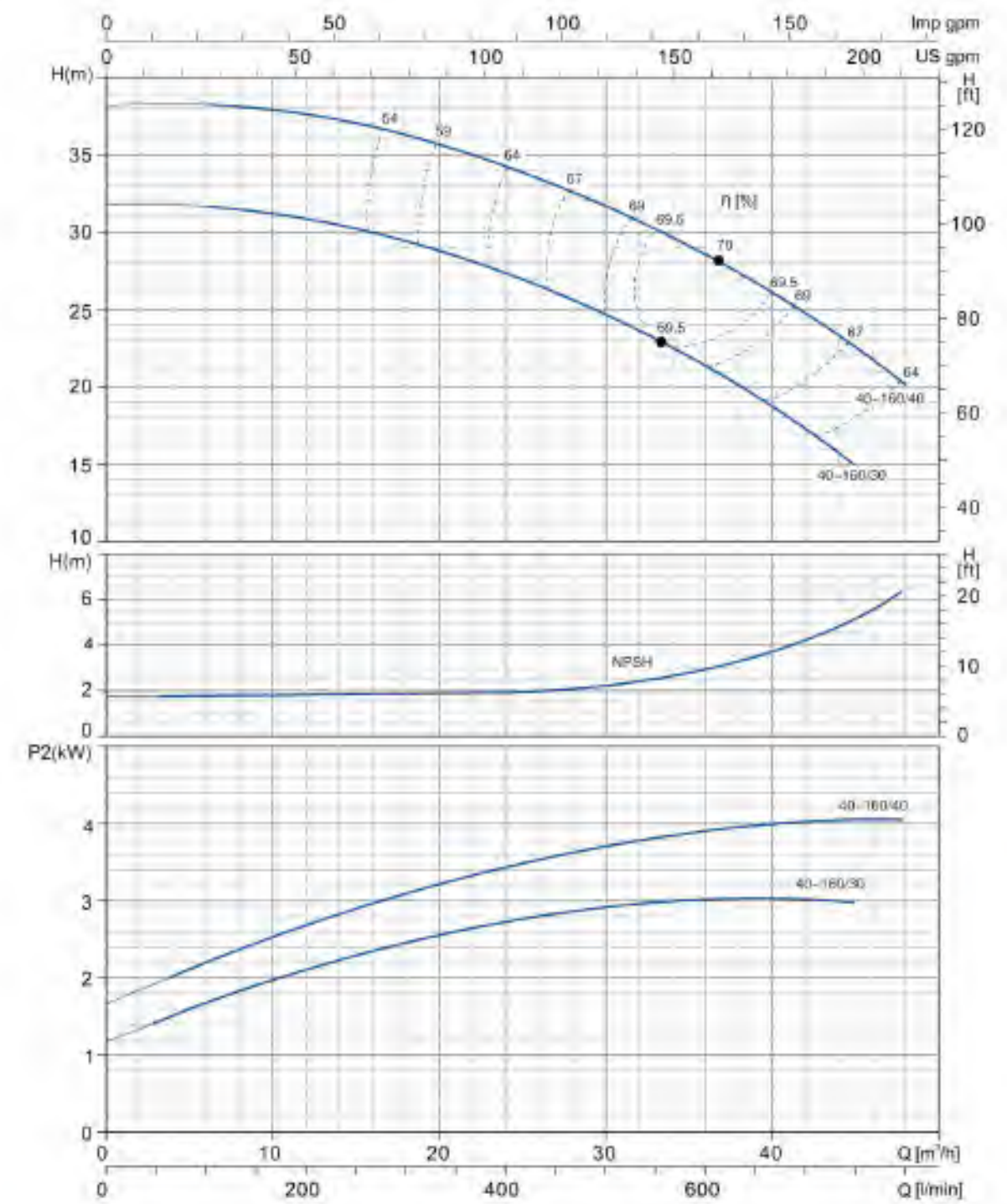
Hydraulic Performance Curves

EST 40-125	~2900 rpm	ISO 9906 Annex A
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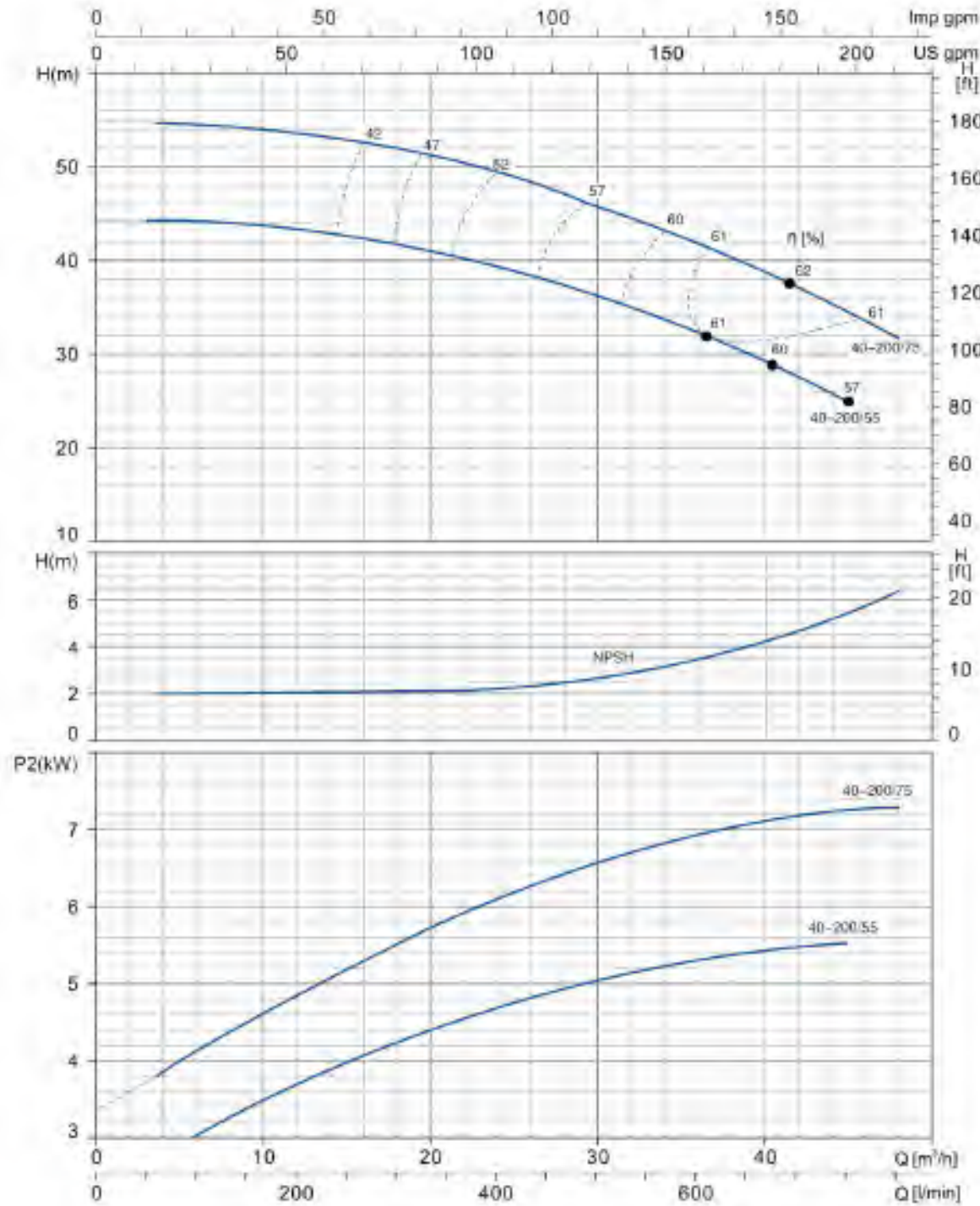
Hydraulic Performance Curves

EST 40-160	~2900 rpm	ISO 9906 Annex A
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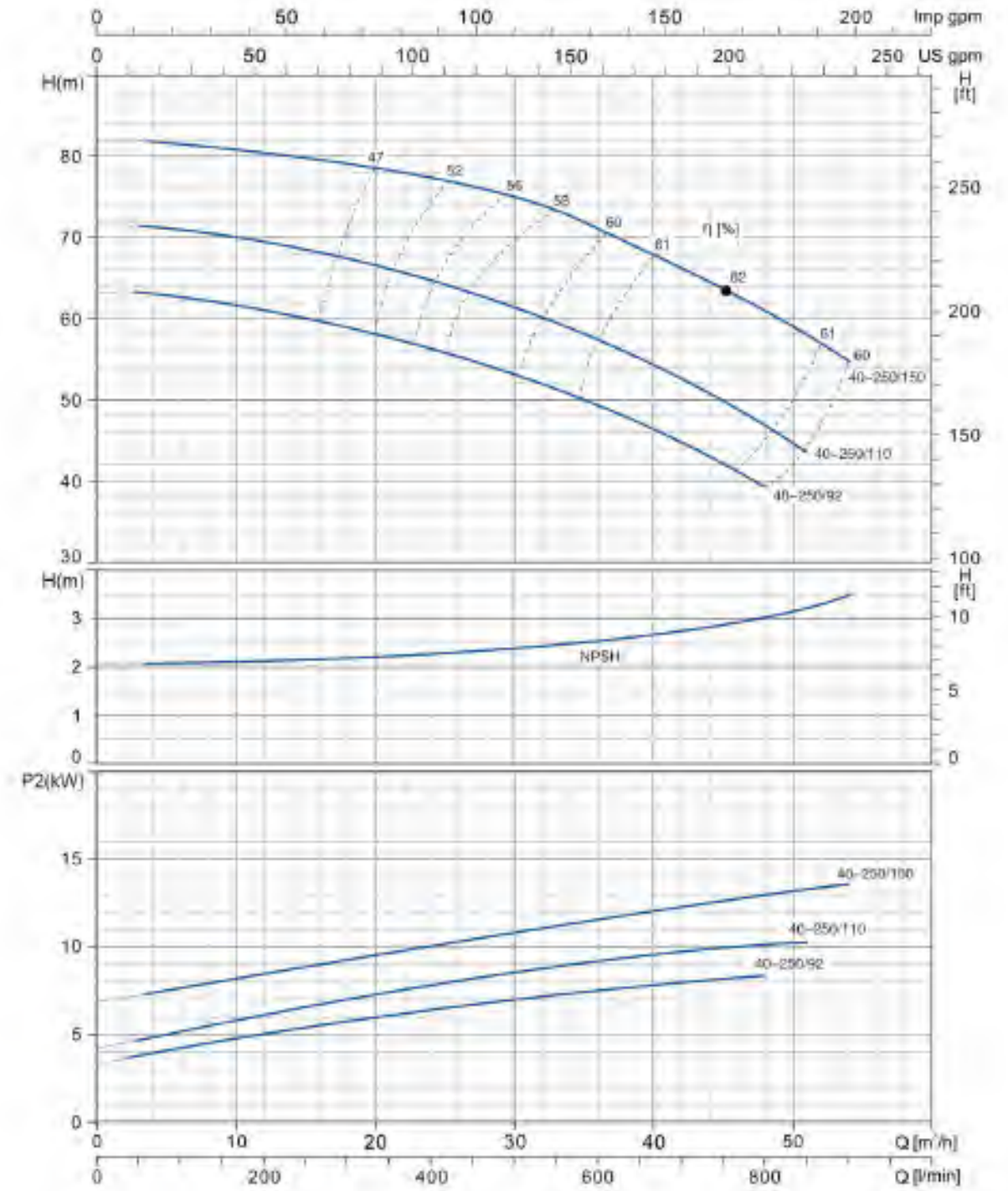
Hydraulic Performance Curves

EST 40-200	~2900 rpm	ISO 9906 Annex A
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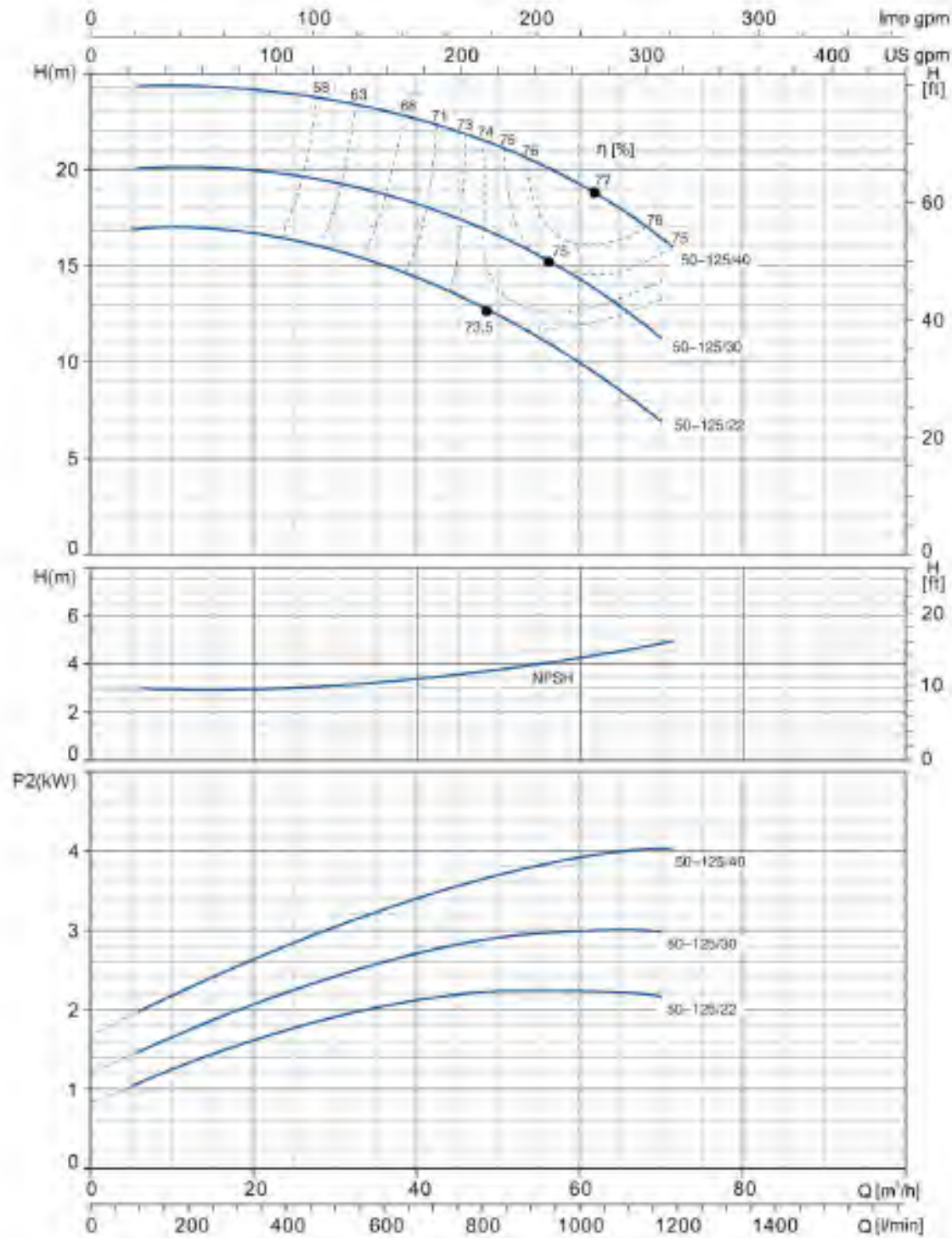
Hydraulic Performance Curves

EST 40-250	~2900 rpm	ISO 9906 Annex A
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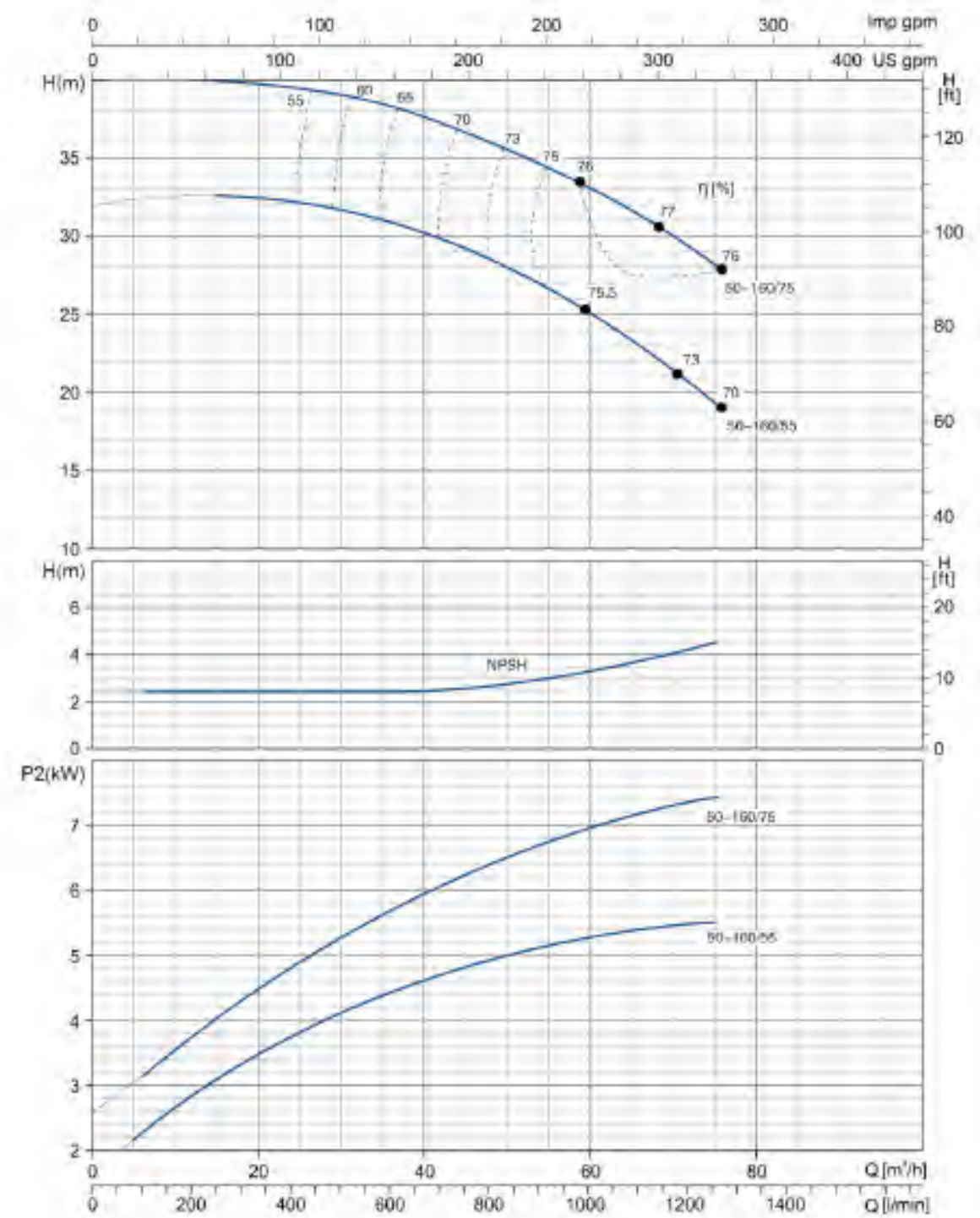
Hydraulic Performance Curves

EST 50-125	~2900 rpm	ISO 9906 Annex A
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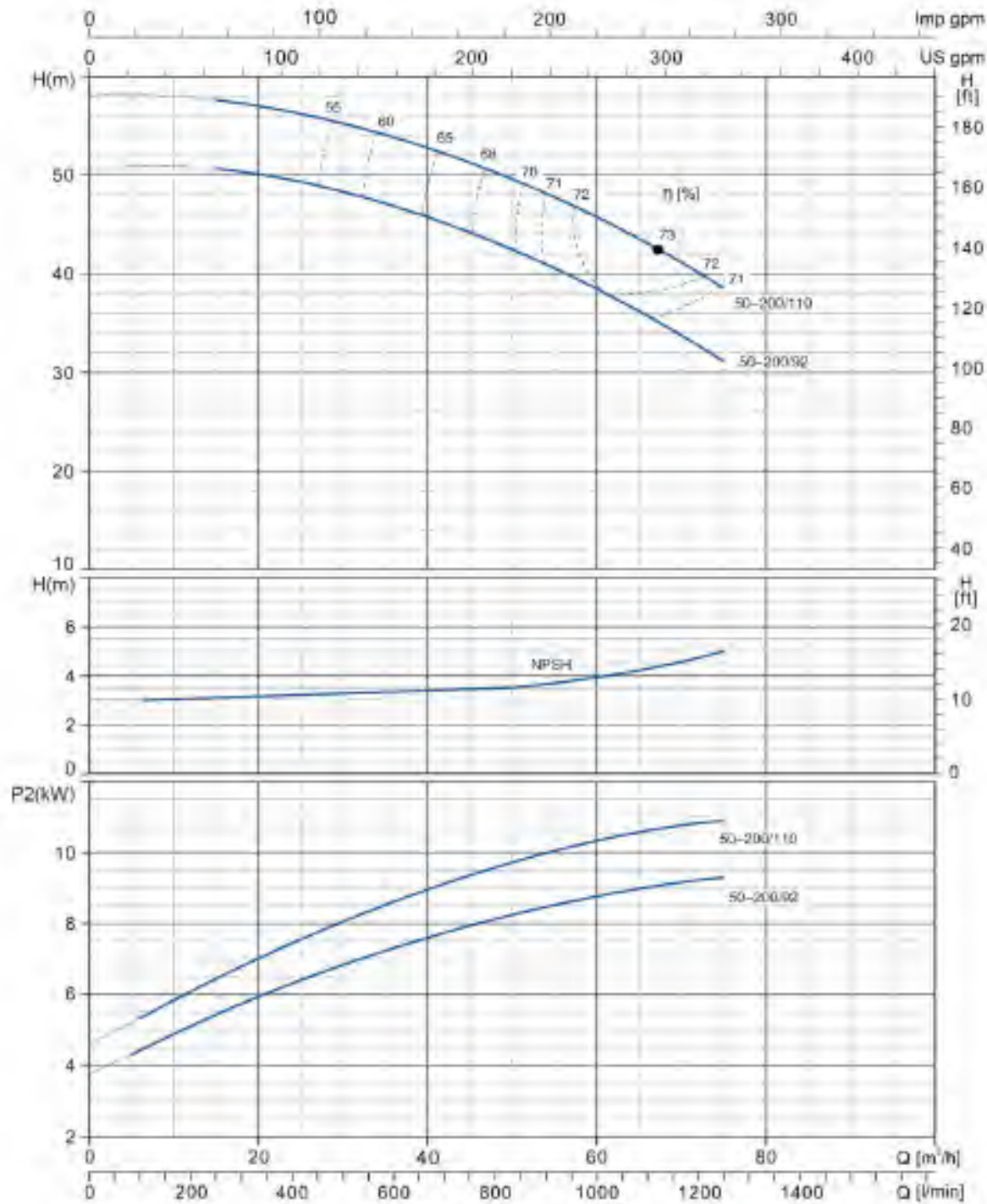
Hydraulic Performance Curves

EST 50-160	~2900 rpm	ISO 9906 Annex A
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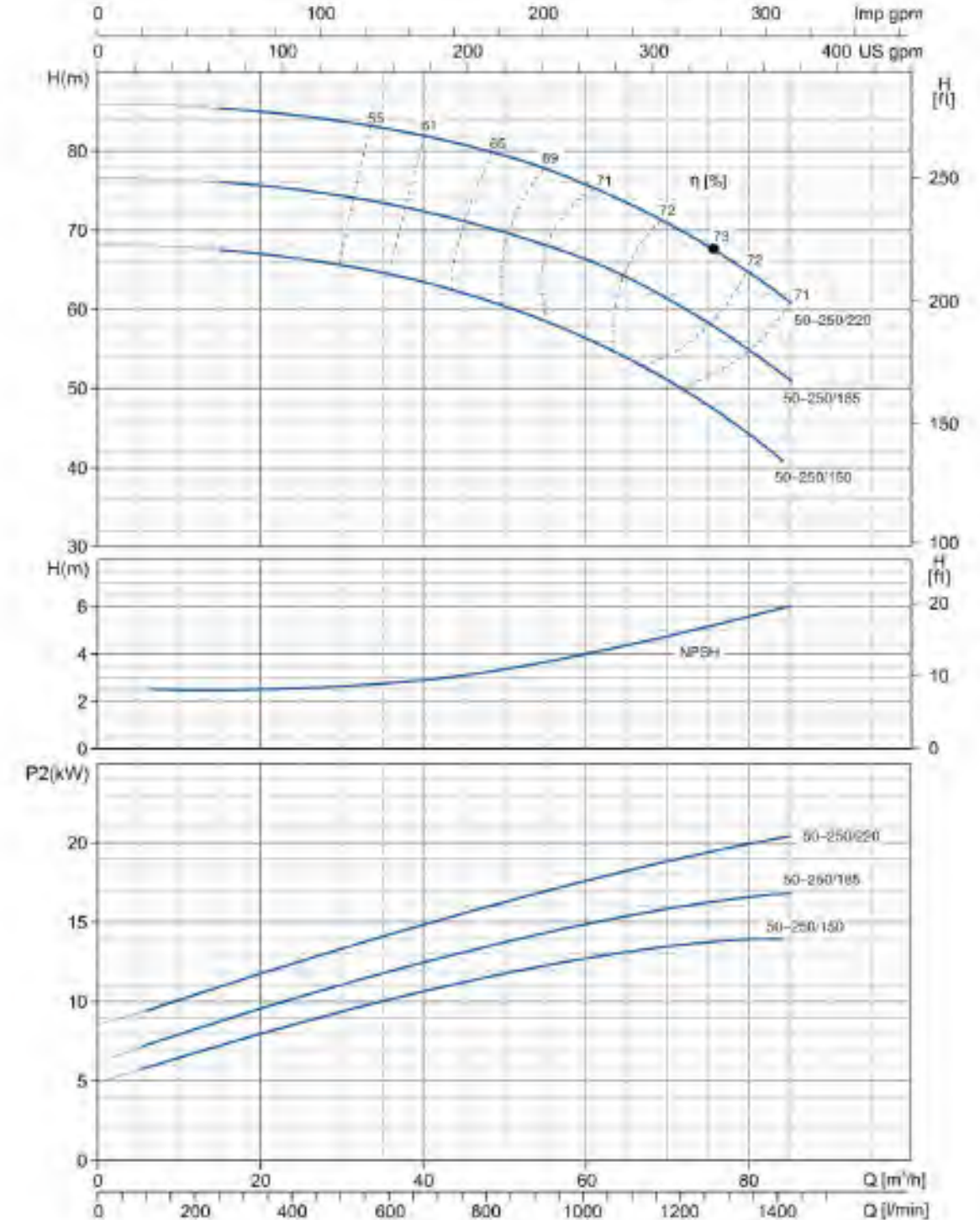
Hydraulic Performance Curves

EST 50-200	~2900 rpm	ISO 9906 Annex A
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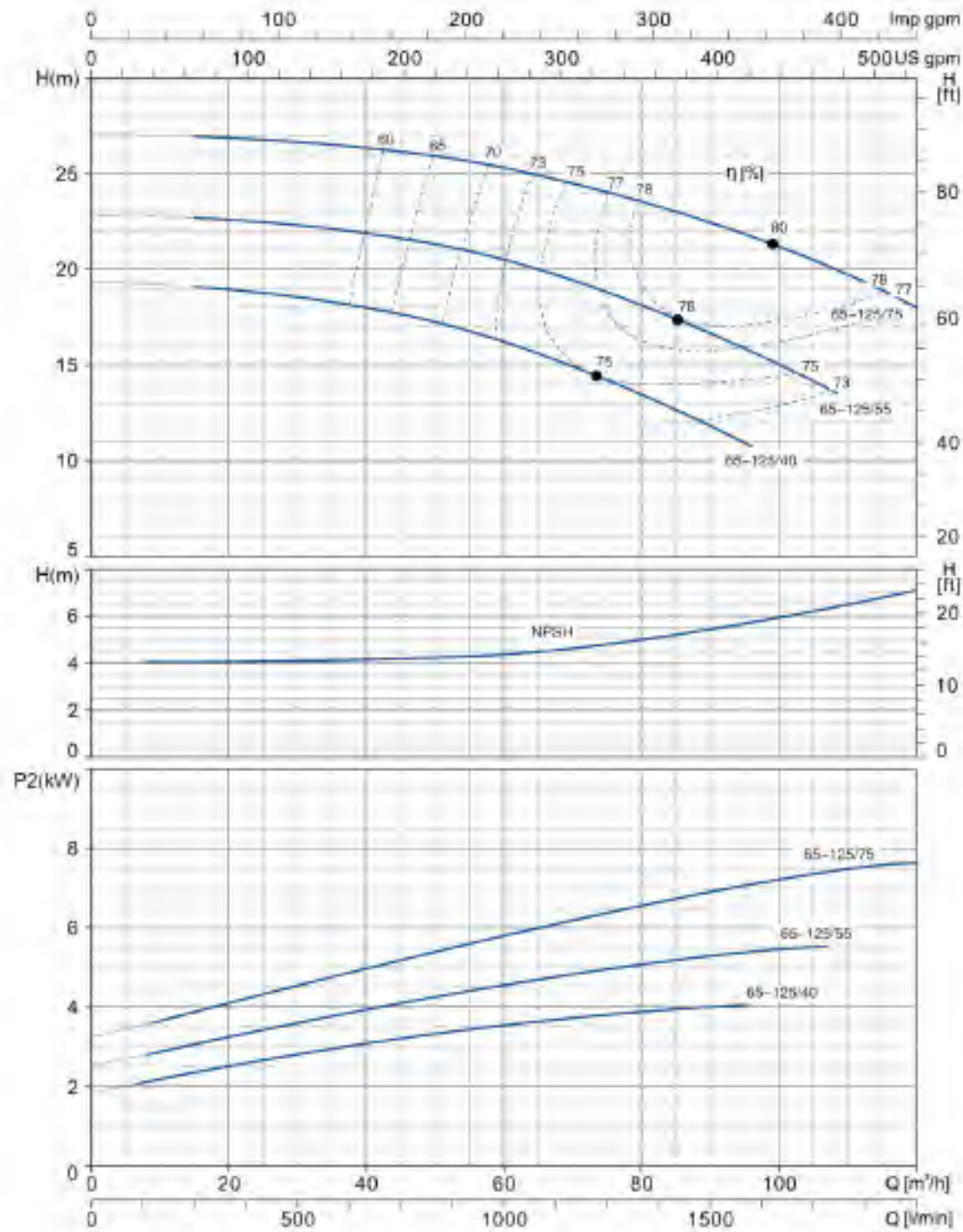
Hydraulic Performance Curves

EST 50-250	~2900 rpm	ISO 9906 Annex A
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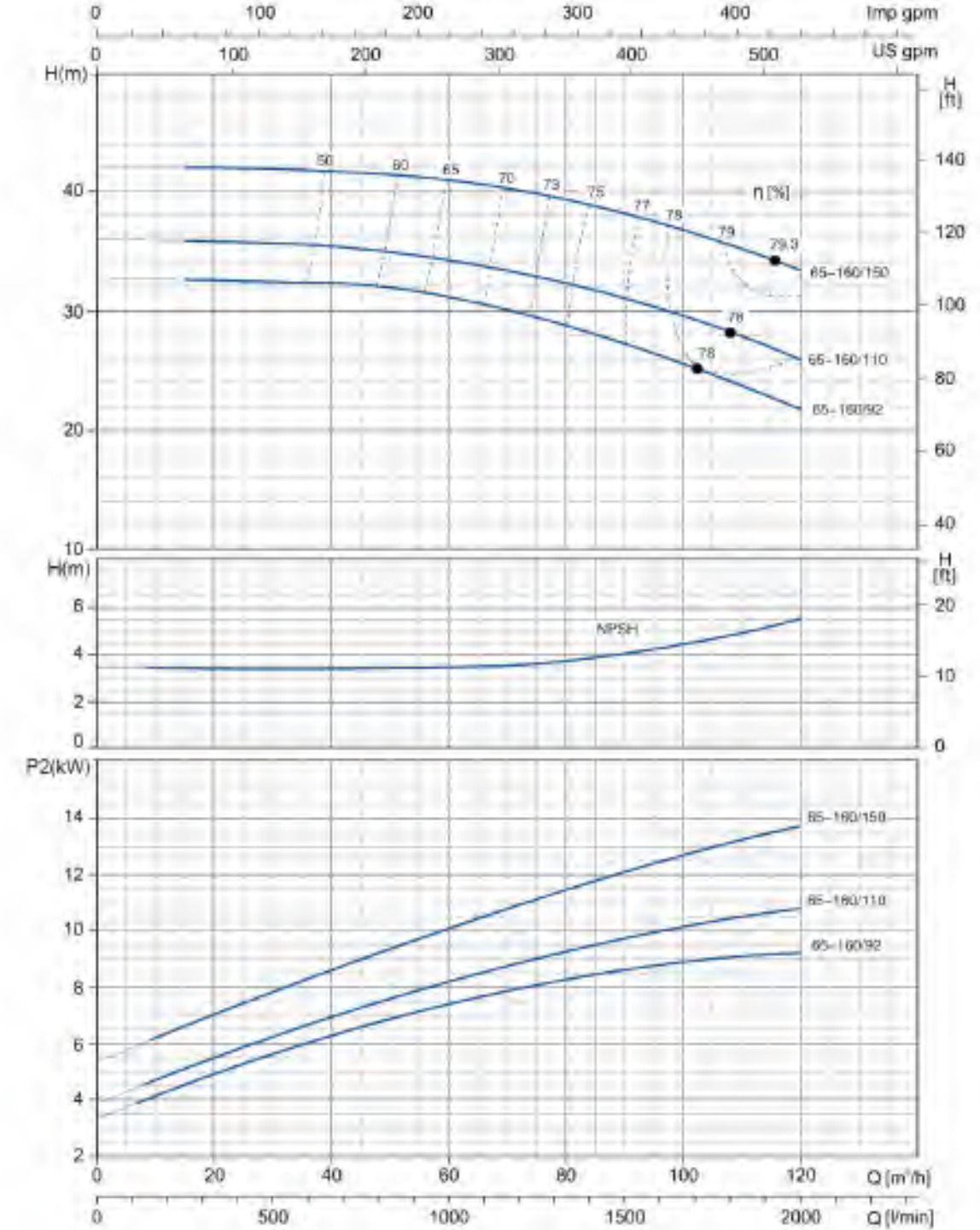
Hydraulic Performance Curves

EST 65-125	~2900 rpm	ISO 9906 Annex A
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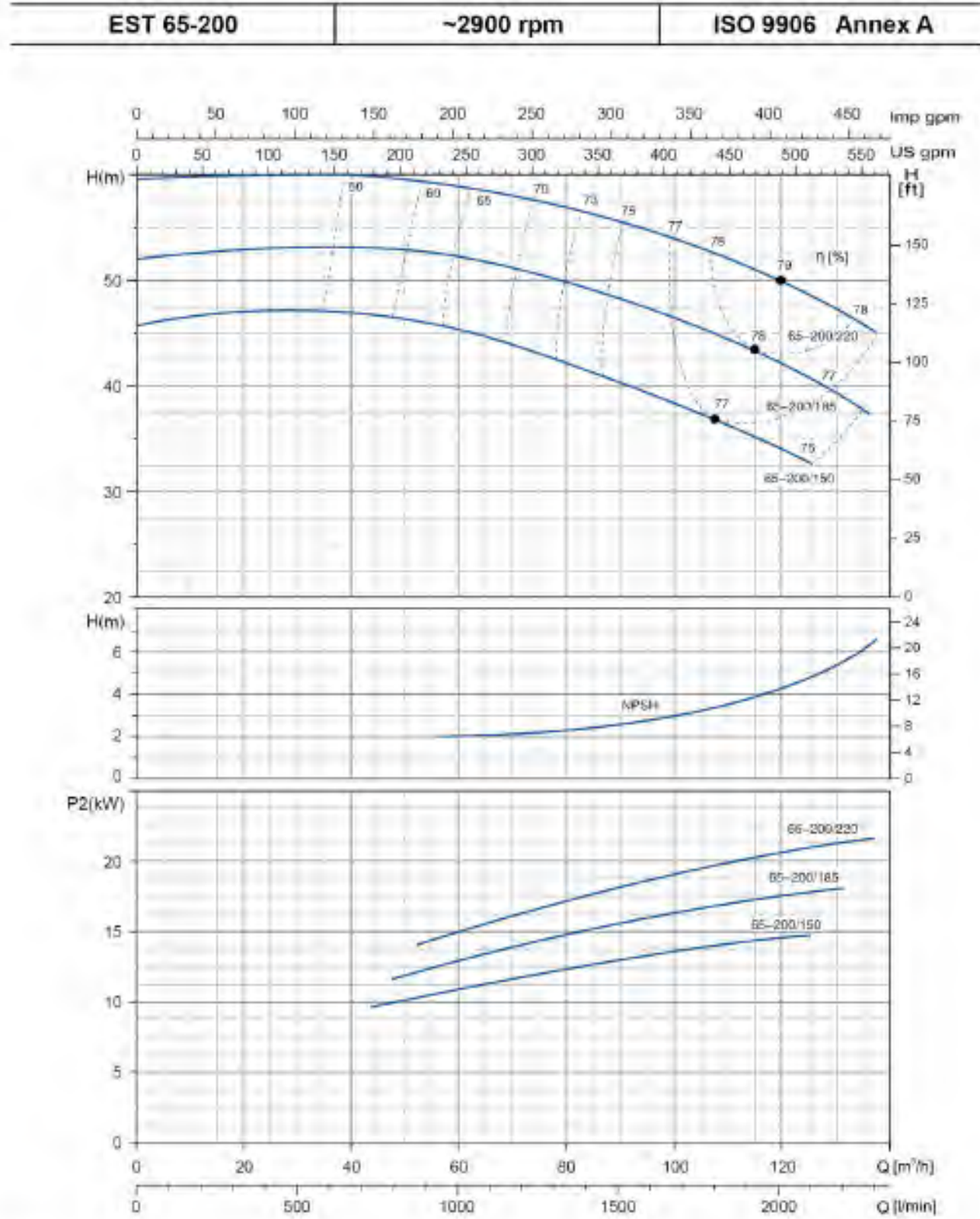


Hydraulic Performance Curves

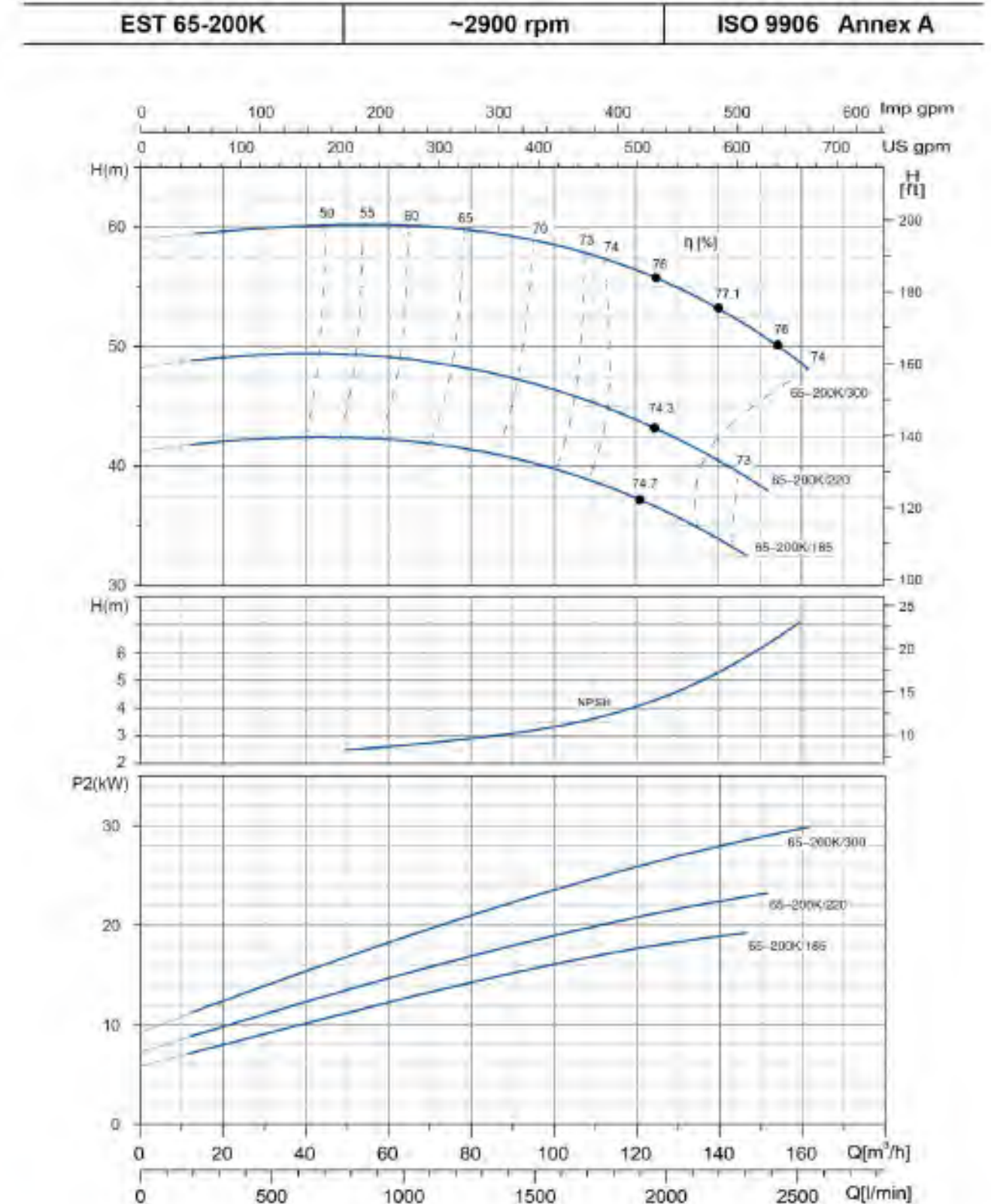
EST 65-160	~2900 rpm	ISO 9906 Annex A
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Hydraulic Performance Curves

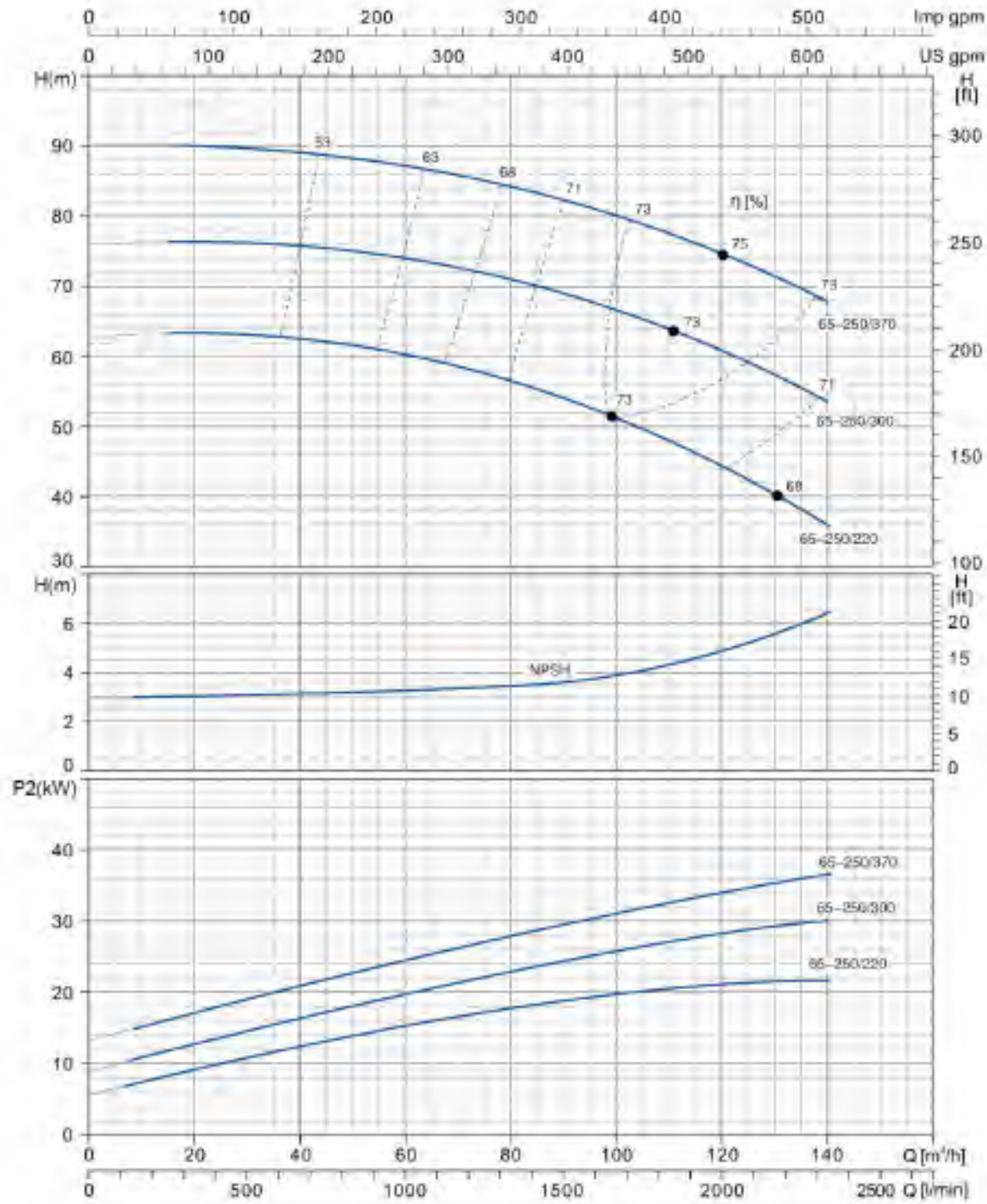


Hydraulic Performance Curves



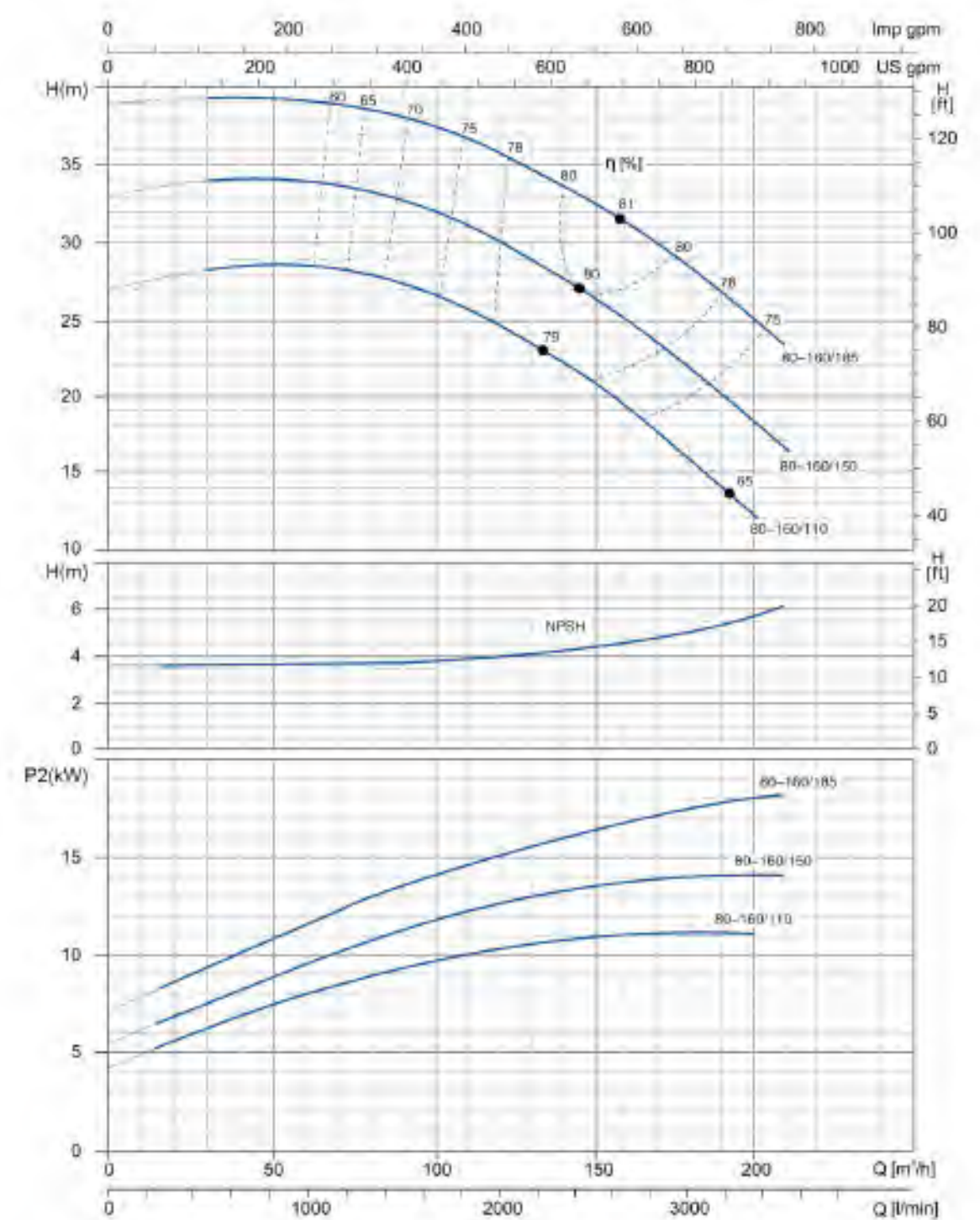
Hydraulic Performance Curves

EST 65-250	~2900 rpm	ISO 9906 Annex A
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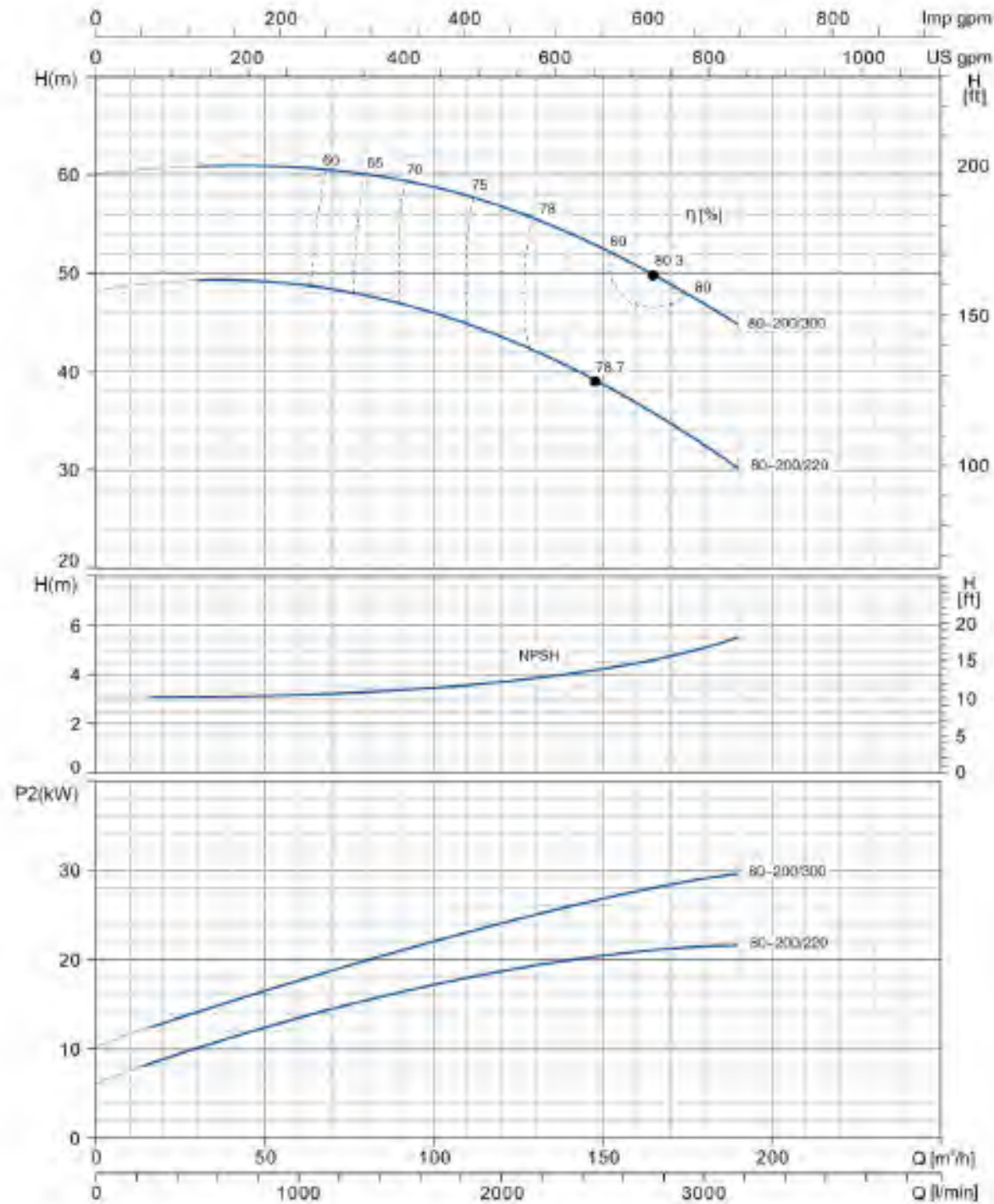
Hydraulic Performance Curves

EST 80-160	~2900 rpm	ISO 9906 Annex A
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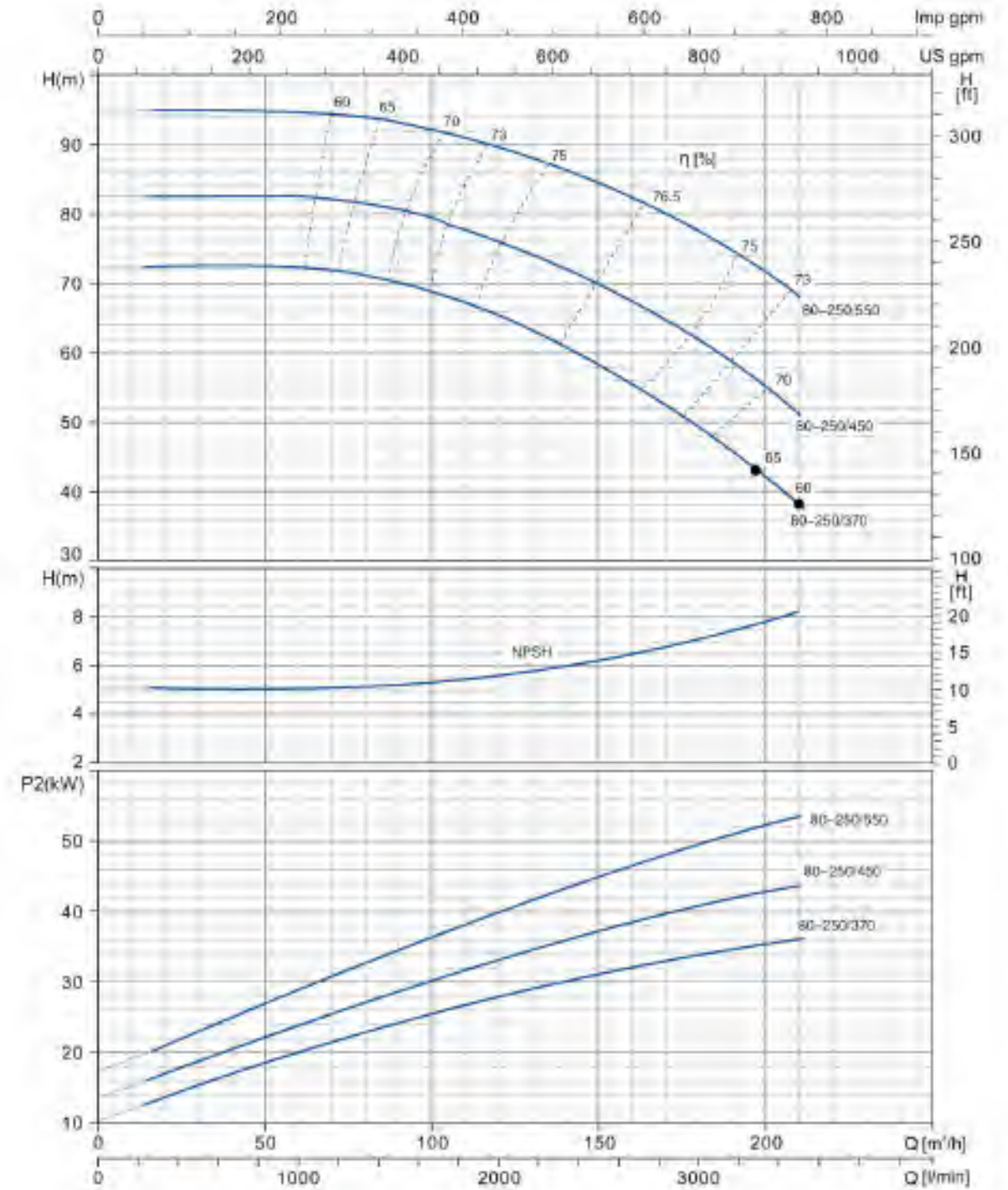
Hydraulic Performance Curves

EST 80-200	~2900 rpm	ISO 9906 Annex A
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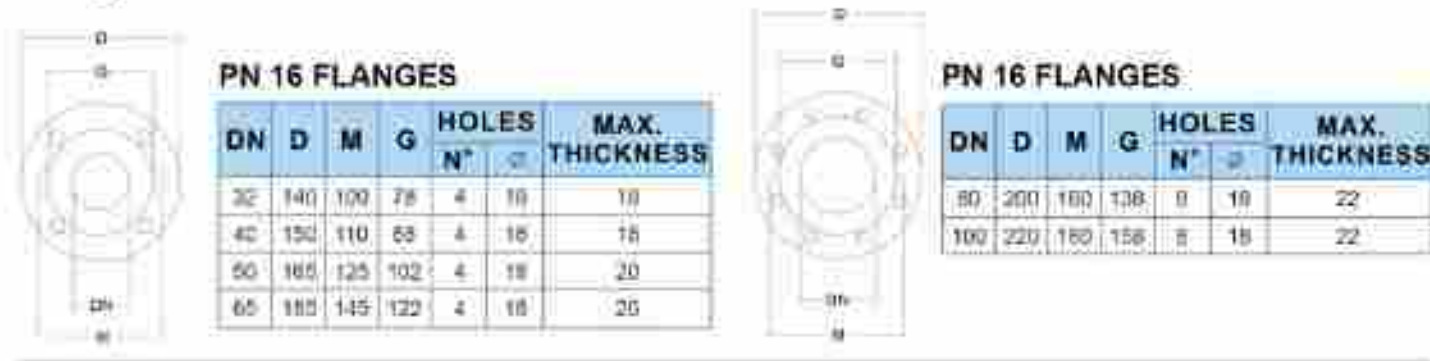


Hydraulic Performance Curves

EST 80-250	~2900 rpm	ISO 9906 Annex A
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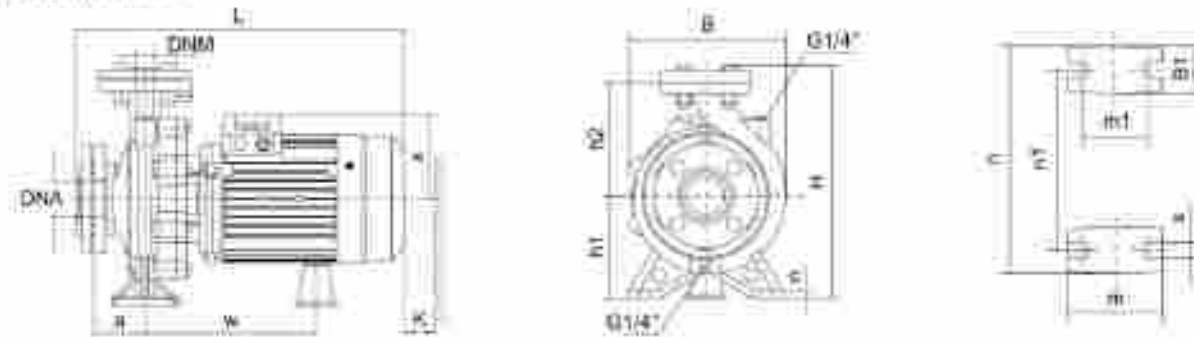


Flange Dimensions



Installation Sketch

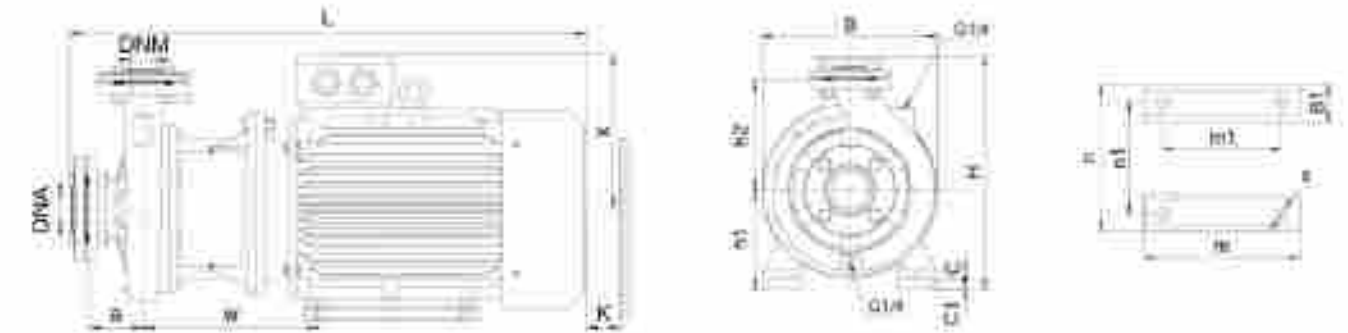
up to 7.5 kW included



MODEL	DN1	DNA	H	W	s	n2	B1	C	H1	n	m1	s	n1	s	B	H	L	K				
32-125/7	32	50	80	223	113	140	48	12	112	190	140	15	192	281	427	85						
32-125/11																				123		
32-160/15																					141	
32-160/27																						160
32-160/30																						
32-200/30			135	264	160	196	60	15	160	240	190	14	240	321	430	95						
32-200/40																				48		
32-200/50																					12	
32-250/75																						180
40-125/11	40	65	80	285	140	45	112	100	70	210	160	218	282	488	95							
40-125/15																			127			
40-125/22																				168		
40-160/30																					48	
40-160/40																						132
40-200/55			238	180	180	50	12	160	264	212	15	275	370	553	583				105			
40-200/75																				12		
50-125/22																					50	
50-125/30																						127
50-125/40																						
50-160/55	262	180	180	52	160	264	212	272	370	556	588	110										
50-160/75													132									
65-125/40														52								
65-125/55															160							
65-125/75																180						
65-125/75	265	160	180	66	14	125	95	280	212	263	372	564	504									

Installation Sketch

From 7.5 kW



MODEL	DN1	DNA	a	w	s	s2	B1	C	C1	H1	m	m1	s	s1	s	B	H	L	K																			
40-250/92	40	65	100	310	260	225	65	20	20	180	260	210	320	254	14.5	350	440	845	110																			
40-250/110																																						
40-250/150																																						
50-200/92																				50	65	100	310	260	200	65	20	-	160	260	210	320	254	14.5	350	420	845	120
50-200/110																																						
50-250/150																																						
50-250/165																																						
50-250/220																																						
65-160/92																				65	80	100	323	275	225	70	25	-	160	260	210	320	254	14.5	350	420	845	120
65-160/110																																						
65-160/150																																						
65-200/100																																						
65-200/165																																						
65-200/220																																						
65-200K/185	65	80	100	323	275	225	70	22	-	180	304	254	320	254	14.5	350	440	895	120																			
65-200K/220																																						
65-200K/220																																						
65-200K/300																																						
65-200/220																																						
65-250/300	65	80	100	305	305	250	70	22	-	200	369	305	305	318	18.0	400	505	1026	120																			
65-250/370																																						
80-160/110																				80	100	125	352	275	250	70	22	-	160	260	210	320	254	14.0	350	420	870	130
80-160/150																																						
80-160/195																																						
80-200/220																																						
80-200/300																																						
80-200/370	80	100	125	365	300	280	75	25	-	200	369	305	305	318	18.5	400	505	1050	120																			
80-250/370																																						
80-250/450																																						
80-250/500																																						
80-250/500																																						



1.1kw-7.5kw



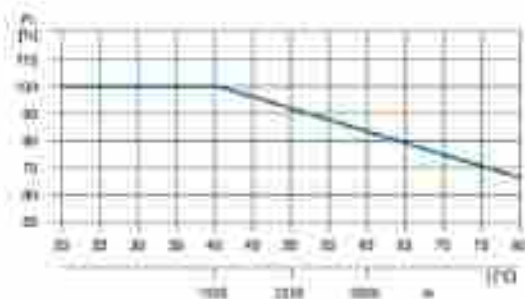
9.2kw-22kw

ESST

Ambient Temperature

Max. Ambient temperature: +40°C. Ambient temperature above +40°C, or installation at altitude of more than 1000 m above sea level, require the use of an oversize motor. Because of low air density and poor cooling effects, the motor output power P2 will be decreased. See the picture.

For example, when the pump is installed at altitude of more than 3500 m above sea level, P2 will be decreased to 88%. When the ambient temperature is 70°C, P2 will be decreased to 78%.



Application

- Water supply: filtration and transfer at waterworks, regional water supply and pressure boosting in main pipe
- Industrial pressure boosting: Water system, cleaning system
- Industrial water supply: boiler feeding, cooling system, air conditioning, transportation of light acid and alkali liquid
- Water treatment: distillation systems, separators, swimming pools
- Agricultural irrigation, petrochemical industry, medicine and sanitation, etc

Operating Conditions

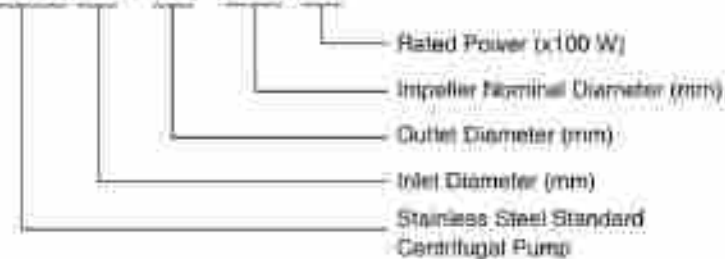
- Thin, clean, non-flammable and explosive, not containing the liquid with solid particles and fibers
- Liquid temperature: -15°C - +60°C
- Flow range: 0.7 - 132 m³/h
- Head range: 6 - 56 m
- Ambient temperature range: -15°C - +40°C
- Max. operation: 10 bar
- Altitude: up to 1000 m
- Liquid PH value: 3 - 9
- Max. ambient temperature: +40°C

Motor

- IE2 Motor (IE3 motor available on request for power ≥ 2.2kw)
- Totally enclosed & fan-cooled
- Protection class: IP55
- Insulation class: F

Identification Codes

ESST 65- 50- 160/40



Accessories on Request



Materials Table

1.1kw-7.5kw

No.	Part	Material	No.	Part	Material
1	Pump body	06Cr19Ni10	11	Pin	PO
2	Impeller	06Cr19Ni10	12	Fan cover	OSP
3	O-ring	NBR	13	Rear cover	ZL102
4	Support	HT200	14	Nameplate	06Cr19Ni10
5	Oil seal		15	Stator	
6	Bearing		16	Terminal cover	ZL102
7	Rotor		17	Terminal board	
8	Stand	HT200	18	Cable holder	
9	Bearing		19	Support cover	06Cr19Ni10
10	Oil seal		20	Mechanical seal	

9.2kw-22kw

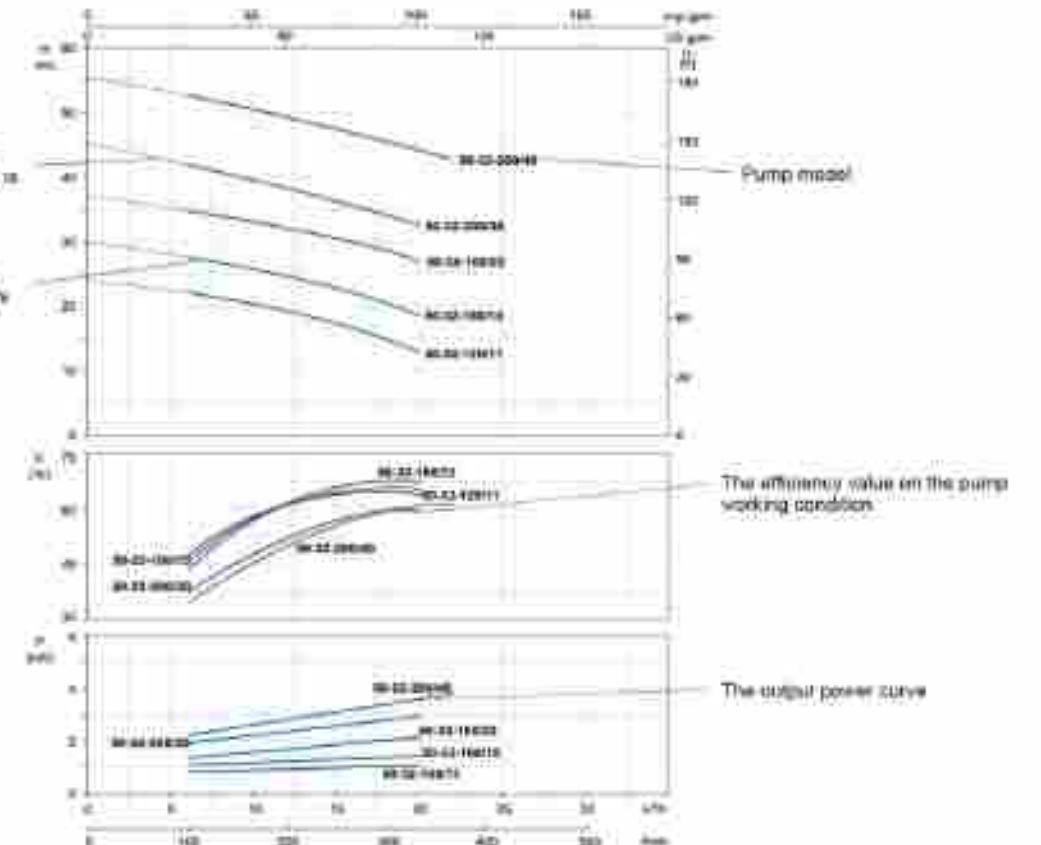
No.	Part	Material
1	Pump body	06Cr19Ni10
2	Impeller	06Cr19Ni10
3	O-ring	NBR
4	Support cover	06Cr19Ni10
5	Support	HT200
6	Rotor	06Cr19Ni10/45
7	Nameplate	06Cr19Ni10
8	Guard plate	06Cr19Ni10
10	Mechanical seal	



How to Read The Curve Charts

The thin curves indicate the duty range where long-time operation is not allowed.

The bold curves indicate the duty range where long-time operation is permitted for best efficiency.

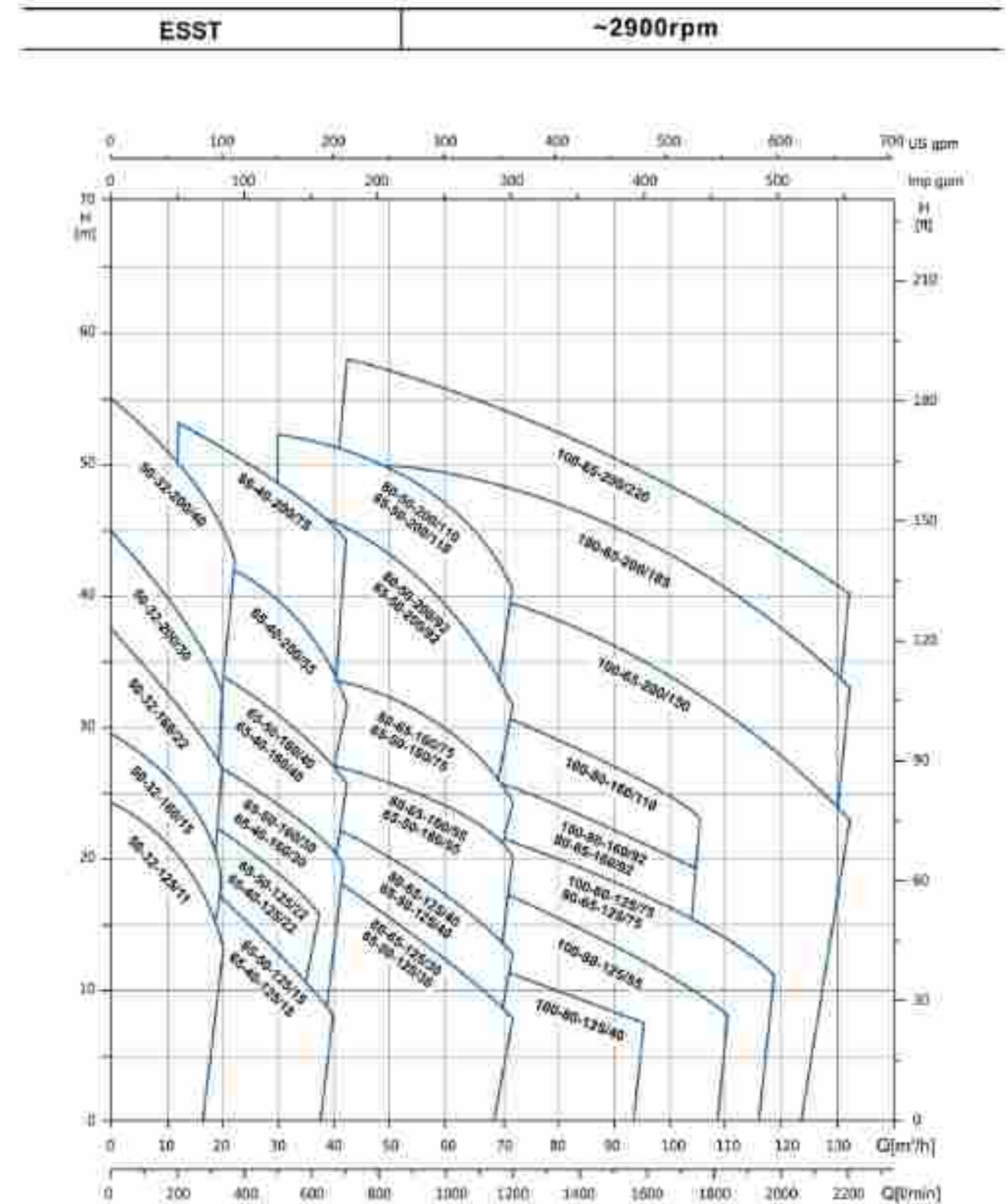


Technical Data

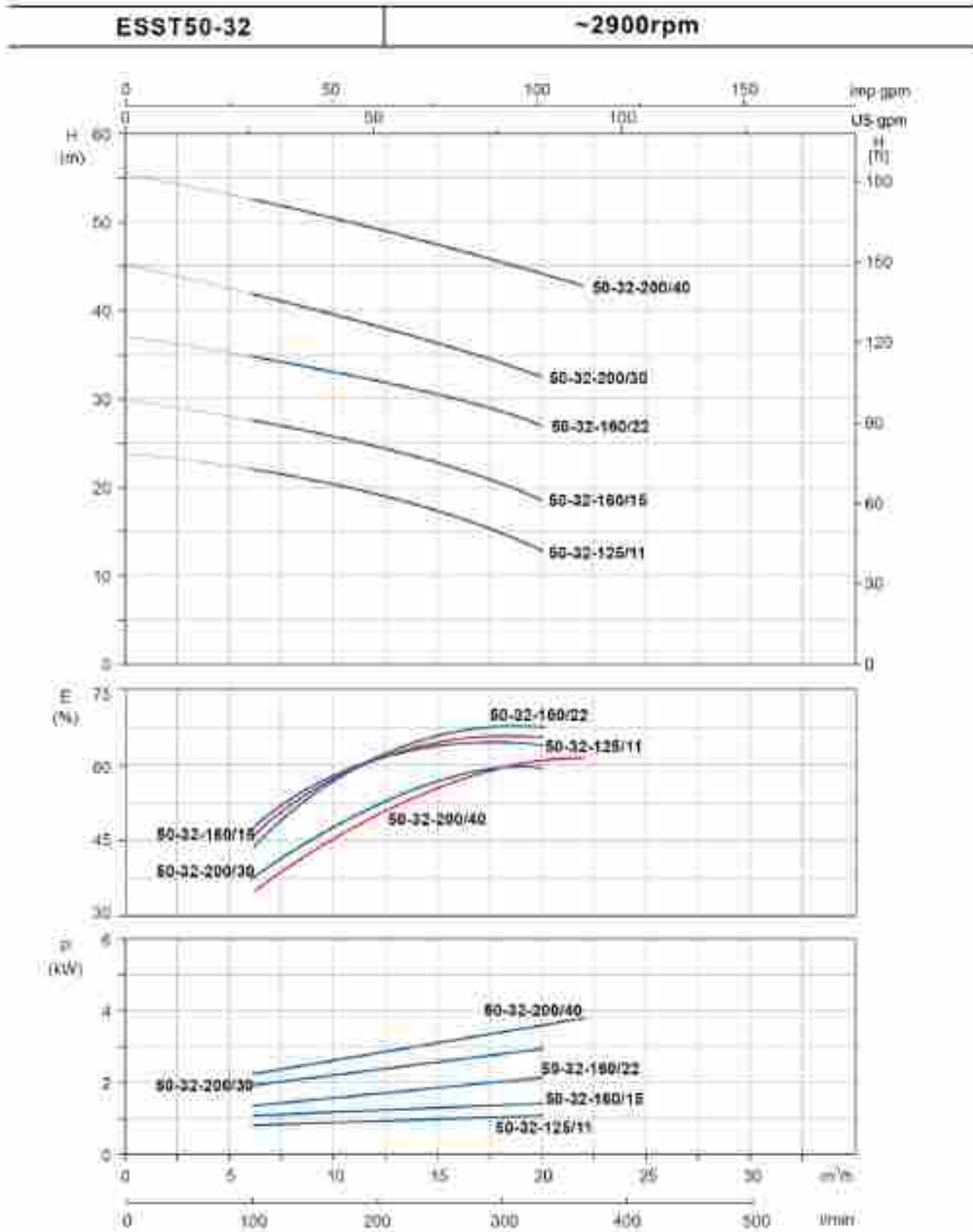
MODEL	Power	Q _{max} (m ³ /h)	Q ₀ -DELIVERY																						
			5	6	9	12	15	20	25	30	35	40	45	50	55	60	70	80	90	100	110	120	130		
Q ₀ (m ³ /h)	Q ₀ (US GPM)	Q ₀ (m ³ /h)	Q ₀ (US GPM)	Q ₀ (m ³ /h)	Q ₀ (US GPM)	Q ₀ (m ³ /h)	Q ₀ (US GPM)	Q ₀ (m ³ /h)	Q ₀ (US GPM)	Q ₀ (m ³ /h)	Q ₀ (US GPM)	Q ₀ (m ³ /h)	Q ₀ (US GPM)	Q ₀ (m ³ /h)	Q ₀ (US GPM)	Q ₀ (m ³ /h)	Q ₀ (US GPM)	Q ₀ (m ³ /h)	Q ₀ (US GPM)	Q ₀ (m ³ /h)	Q ₀ (US GPM)	Q ₀ (m ³ /h)	Q ₀ (US GPM)		
ESST100-32-125/11	1.1 1.5	24	21.5	20.5	19.5	18	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ESST150-32-180/15	1.5 2	28.5	27	26	25	21	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ESST150-32-180/22	2.2 3	31	29.5	28.5	27	23	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ESST150-32-250/30	3 4	45	41	40	38	34	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ESST150-32-200/40	4 5.5	55	51	50	48	45	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ESST75-60-125/15	ESST765-40-125/15	1.5 2	20	-	-	18	18	17	16.5	15	14	12.5	10	-	-	-	-	-	-	-	-	-	-	-	-
ESST75-60-125/22	ESST765-40-125/22	2.2 3	28	-	-	25.5	25.5	25	24.5	23	21.5	20	19.5	18.5	-	-	-	-	-	-	-	-	-	-	-
ESST75-50-160/30	ESST765-40-160/30	3 4	31	-	-	29	27.5	27	26.5	25.5	25	24	23	19	-	-	-	-	-	-	-	-	-	-	-
ESST75-50-160/40	ESST765-40-160/40	4 5.5	39	-	-	35.5	34.5	34	33.5	32.5	32	31	30	26	-	-	-	-	-	-	-	-	-	-	-
ESST75-40-200/15		5.5 7.5	43	-	-	41	42.5	42	41.5	41	40.5	38	37	35	-	-	-	-	-	-	-	-	-	-	-
ESST75-40-200/75		7.5 10	45	-	-	43	42.5	42	41.5	41	40.5	38	37	35	-	-	-	-	-	-	-	-	-	-	-
ESST70-45-125/30	ESST765-60-125/30	3 4	22.5	-	-	-	-	-	20	20.5	19	18.5	17.5	16	13	9	-	-	-	-	-	-	-	-	-
ESST70-45-125/40	ESST765-60-125/40	4 5.5	28.5	-	-	-	-	-	23	22.5	22	21.5	20.5	19	17	13.5	-	-	-	-	-	-	-	-	-
ESST70-45-160/50	ESST765-60-160/50	5.5 7.5	33	-	-	-	-	-	28.5	28	28.5	28	27	26	24	20	-	-	-	-	-	-	-	-	-
ESST70-45-160/75	ESST765-60-160/75	7.5 10	36	-	-	-	-	-	36	36	34.5	34	33.5	32.5	30	26	-	-	-	-	-	-	-	-	-
ESST70-65-200/40	ESST765-60-200/40	5.2 12.5	32	-	-	-	-	-	40	47.5	46.5	44.5	43.5	40.5	34	-	-	-	-	-	-	-	-	-	-
ESST70-65-200/75	ESST765-60-200/75	11 15	37.5	-	-	-	-	-	52	61	60.5	60	61	41	-	-	-	-	-	-	-	-	-	-	-
ESST100-45-125/40		4 5.5	30	-	-	-	-	-	17.5	16.5	15.5	14	12	7	-	-	-	-	-	-	-	-	-	-	-
ESST100-45-125/75		5.5 7.5	33	-	-	-	-	-	21.5	20.5	20	18	16	12	7.5	-	-	-	-	-	-	-	-	-	-
ESST100-45-125/75	ESST110-45-125/75	7.5 10	36	-	-	-	-	-	27.5	26.5	25.5	23.5	21.5	17.5	12	-	-	-	-	-	-	-	-	-	-
ESST100-45-160/90	ESST110-45-160/90	9.2 12.5	41	-	-	-	-	-	31	30	29	28	25	-	-	-	-	-	-	-	-	-	-	-	-
ESST100-45-160/110	ESST110-45-160/110	11 15	46.5	-	-	-	-	-	36	35	35	31	30	-	-	-	-	-	-	-	-	-	-	-	-
ESST110-65-200/150		15 20	47	-	-	-	-	-	44	43	41	39	36	32	30	26	24	23	-	-	-	-	-	-	-
ESST110-65-200/180		18.5 25	51	-	-	-	-	-	51	50	49	46	45	41	36	32	30	27	25	-	-	-	-	-	-
ESST110-65-200/220		22 30	58	-	-	-	-	-	57	56	55	54	51	47	42.5	41	42	40	37	-	-	-	-	-	-

* IE3 motor optional on request.

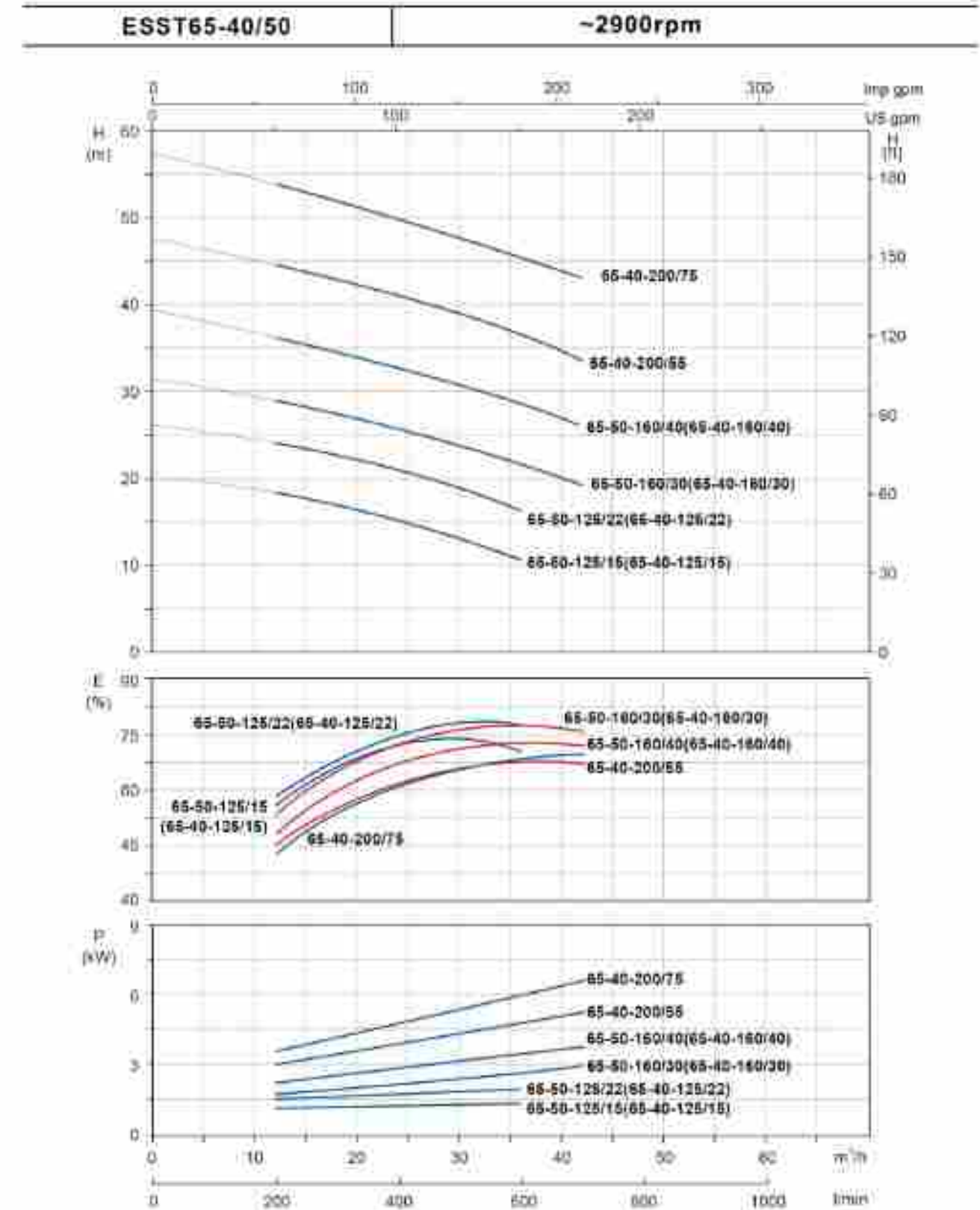
Characteristic Curves



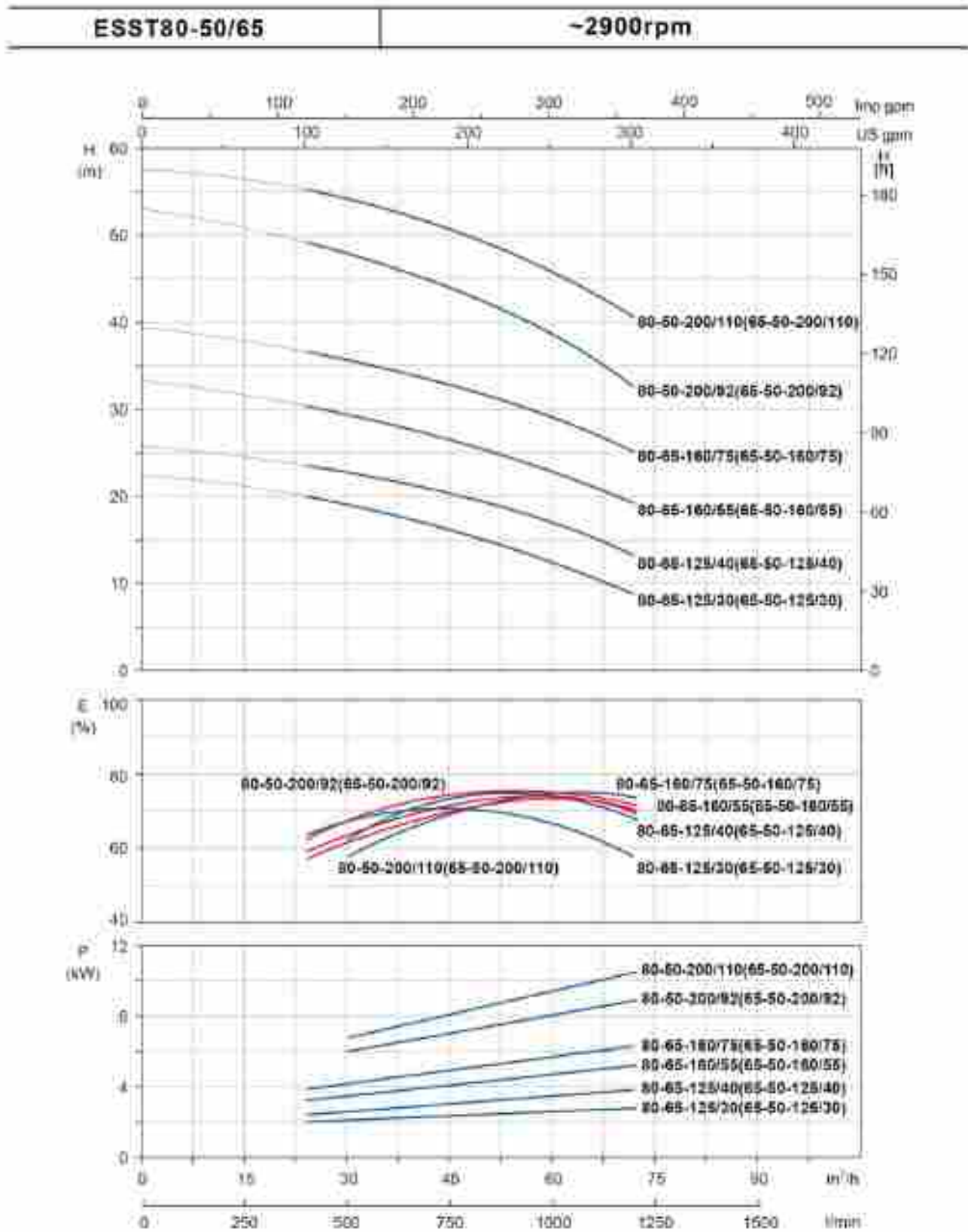
Hydraulic Performance Curves



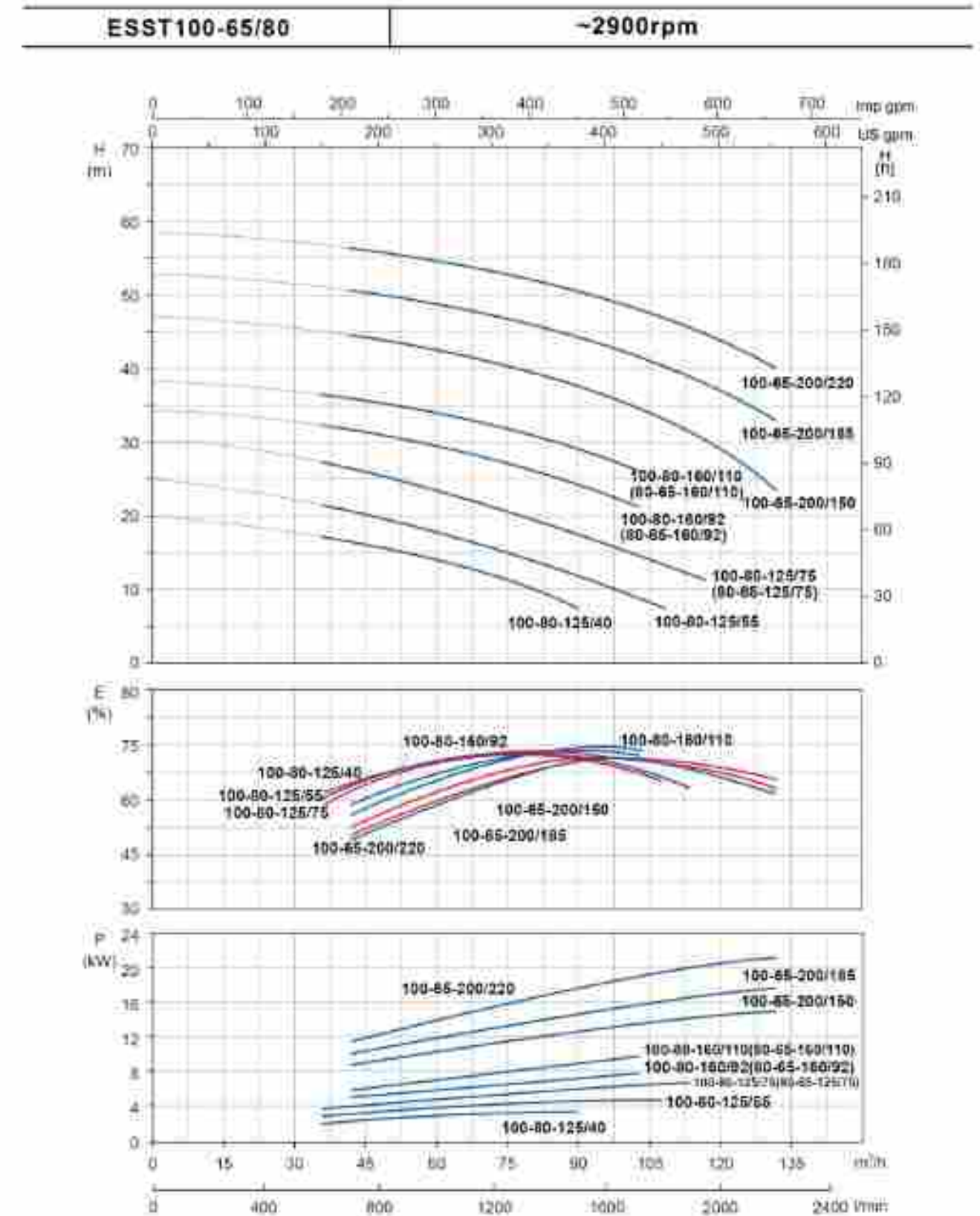
Hydraulic Performance Curves



Hydraulic Performance Curves

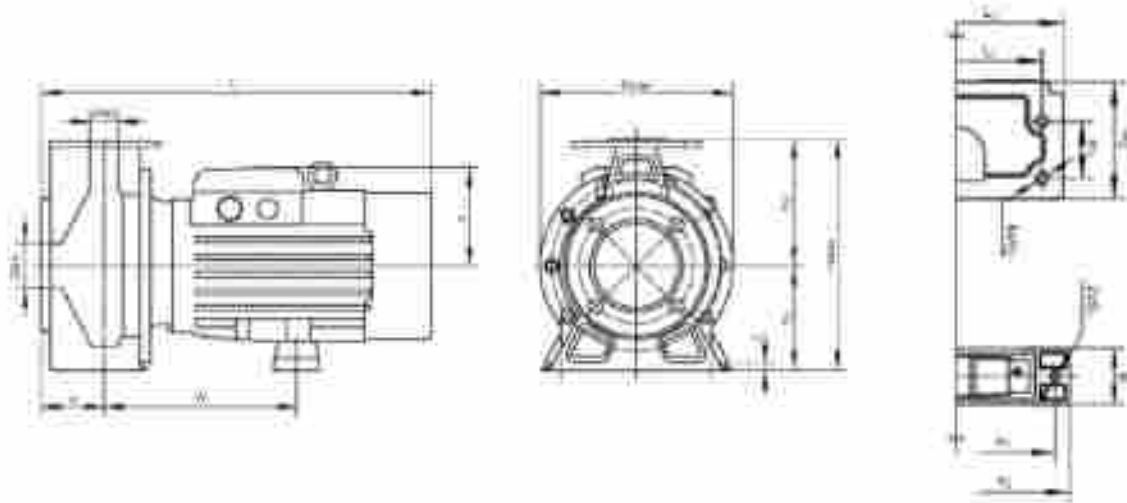


Hydraulic Performance Curves



Installation Sketch

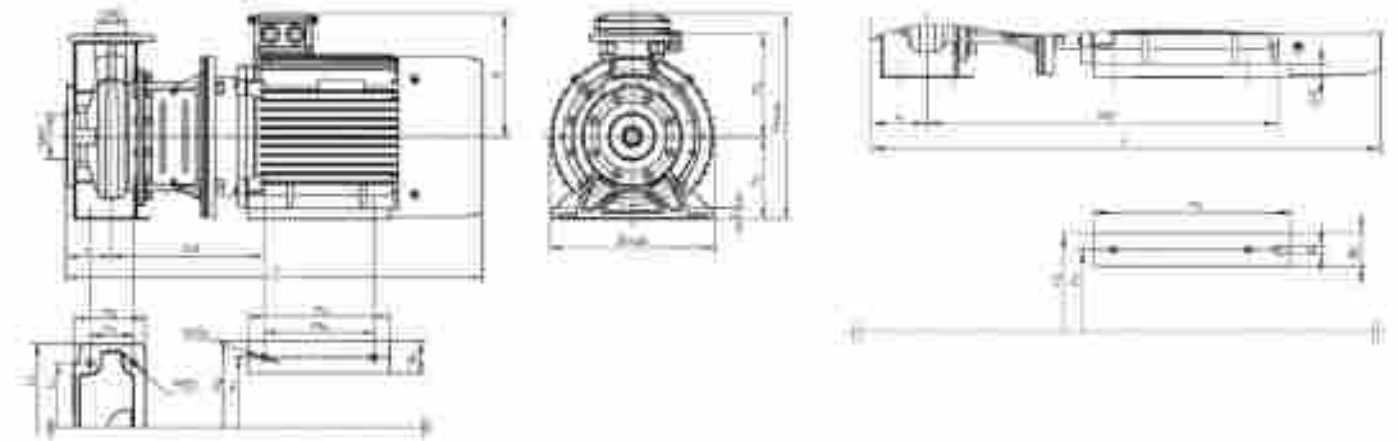
Up to 7.5 kW included



Model	DN1	DN2	a	w	L1	L2	m1	m2	m3	m4	m5	m6	3-φ12	4-φ15	B	C	X	Stroke	Minus	L
ESST50-32-125/11	50	32	80	205	140	180	70	122	205	240	112	140	2-φ12	4-φ15	65	12	127	240	250	475
ESST50-32-160/15	50	32	80	237	190	240	70	122	205	240	132	160	2-φ12	4-φ15	65	12	127	244	252	477
ESST50-32-180/22	50	32	80	237	190	240	70	122	205	240	132	160	2-φ12	4-φ15	65	12	127	244	252	477
ESST50-32-200/30	50	32	80	244	190	240	70	124	225	250	160	180	2-φ12	4-φ15	75	15	134	255	260	482
ESST50-32-200/40	50	32	80	244	190	240	70	124	225	255	160	180	2-φ12	4-φ15	75	15	134	255	260	482
ESST50-50-125/15	65	50	80	205	160	210	70	121	205	240	112	140	2-φ12	4-φ15	65	12	127	240	252	475
ESST50-50-125/22	65	50	80	205	160	210	70	121	205	240	112	140	2-φ12	4-φ15	65	12	127	240	252	475
ESST50-50-160/30	65	50	80	244	190	240	70	123	225	250	132	160	2-φ12	4-φ15	75	15	134	255	260	482
ESST50-50-160/40	65	50	80	244	190	240	70	123	225	250	132	160	2-φ12	4-φ15	75	15	134	255	260	482
ESST50-40-200/55	65	40	40	240	212	285	70	146	245	280	160	180	2-φ12	4-φ15	70	15	142	255	260	565
ESST50-40-200/75	65	40	40	240	212	285	70	146	245	280	160	180	2-φ12	4-φ15	70	15	142	255	260	565
ESST60-65-125/20	80	65	65	254	190	240	70	158	225	250	132	160	2-φ12	4-φ15	75	15	134	260	262	522
ESST60-65-125/40	80	65	65	254	190	240	70	158	225	250	132	160	2-φ12	4-φ15	75	15	134	260	262	522
ESST60-65-160/35	80	65	65	256	212	285	70	150	245	280	160	180	2-φ12	4-φ15	70	15	142	265	268	573
ESST60-65-160/75	80	65	65	256	212	285	70	150	245	280	160	180	2-φ12	4-φ15	70	15	142	265	268	573
ESST100-80-125/40	100	80	80	256	212	280	95	150	225	260	160	180	2-φ12	4-φ15	75	15	134	260	260	624
ESST100-80-125/65	100	80	80	258	212	280	95	150	245	280	160	180	2-φ12	4-φ15	70	15	142	260	260	625
ESST100-80-125/75	100	80	80	258	212	280	95	150	245	280	160	180	2-φ12	4-φ15	70	15	142	260	260	625
ESST65-40-125/15	65	40	80	205	160	210	70	121	205	240	112	140	2-φ12	4-φ15	65	12	127	240	252	475
ESST65-40-125/22	65	40	80	205	160	210	70	121	205	240	112	140	2-φ12	4-φ15	65	12	127	240	252	475
ESST65-40-160/30	65	40	80	244	190	240	70	123	225	250	132	160	2-φ12	4-φ15	75	15	134	255	260	482
ESST65-40-160/40	65	40	80	244	190	240	70	123	225	250	132	160	2-φ12	4-φ15	75	15	134	255	260	482
ESST65-50-125/35	65	50	100	254	190	240	70	158	220	250	132	160	2-φ12	4-φ15	75	15	134	260	262	522
ESST65-50-125/40	65	50	100	254	190	240	70	158	225	250	132	160	2-φ12	4-φ15	75	15	134	260	262	522
ESST65-50-160/55	65	50	100	256	212	285	70	150	245	280	160	180	2-φ12	4-φ15	70	15	142	260	260	573
ESST65-50-160/75	65	50	100	256	212	285	70	150	245	280	160	180	2-φ12	4-φ15	70	15	142	260	260	573
ESST60-65-125/75	80	65	100	256	212	280	95	155	245	280	160	180	2-φ12	4-φ15	70	15	142	260	260	675

Installation Sketch

From 7.5 kW



Model	DN1	DN2	a	w1	w2	L1	L2	m1	m2	m3	m4	m5	m6	m7	m8	m9	m10	m11	m12	m13	m14	m15	m16	m17	m18	m19	m20	m21	m22	m23	m24	m25	m26	m27	m28	m29	m30	m31	m32	m33	m34	m35	m36	m37	m38	m39	m40	m41	m42	m43	m44	m45	m46	m47	m48	m49	m50	m51	m52	m53	m54	m55	m56	m57	m58	m59	m60	m61	m62	m63	m64	m65	m66	m67	m68	m69	m70	m71	m72	m73	m74	m75	m76	m77	m78	m79	m80	m81	m82	m83	m84	m85	m86	m87	m88	m89	m90	m91	m92	m93	m94	m95	m96	m97	m98	m99	m100
ESST60-50-200/50	60	50	100	214	-	212	265	70	146	210	250	254	320	160	200	4-φ14.5	4-φ14	65	-	20	-	260	350	420	616																																																																																		
ESST60-50-200/75	60	50	100	214	-	212	265	70	146	210	250	254	320	160	200	4-φ14.5	4-φ14	65	-	20	-	260	350	420	616																																																																																		
ESST100-80-100/30	100	80	110	321	-	212	280	95	155	200	210	264	320	160	200	4-φ14.5	4-φ14	65	-	20	-	260	350	420	623																																																																																		
ESST100-80-100/40	100	80	110	321	-	212	280	95	155	200	210	264	320	160	200	4-φ14.5	4-φ14	65	-	20	-	260	350	420	623																																																																																		
ESST100-65-200/100	100	65	100	-	581	250	320	95	155	310	-	254	314	180	225	-	4-φ14	80	14.5	-	20	260	350	440	623																																																																																		
ESST100-65-200/135	100	65	100	-	625	250	320	95	155	324	-	254	314	180	225	-	4-φ14	80	14.5	-	20	260	350	440	668																																																																																		
ESST100-65-200/220	100	65	100	334	-	250	320	95	155	311	241	270	355	180	225	4-φ14.5	4-φ14	70	-	22	-	250	355	460	913																																																																																		
ESST65-50-200/40	65	50	100	214	-	212	265	70	146	210	250	254	320	160	200	4-φ14.5	4-φ14	65	-	-	-	260	350	420	616																																																																																		
ESST65-50-200/110	65	50	100	214	-	212	265	70	146	210	250	254	320	160	200	4-φ14.5	4-φ14	65	-	-	-	260	350	420	616																																																																																		
ESST60-65-100/30	60	65	110	321	-	212	280	95	155	280	310	254	320	160	200	4-φ14.5	4-φ14	65	-	-	-	260	350	420	623																																																																																		
ESST60-65-100/110	60	65	110	321	-	212	280	95	155	280	310	254	320	160	200	4-φ14.5	4-φ14	65	-	-	-	260	350	420	623																																																																																		

Flange Dimensions



PN16 FLANGES

DN	D	M	O	Holes		Max Thickness
				N	φ	
65	140	95	78	4	18	14
80	150	110	84	4	18	14.5
100	188	123	88	4	18	16
125	195	143	118	4	18	16
150	200	160	132	4	18	16



PN16 FLANGES

DN	O	M	O	Holes		Max Thickness
				N	φ	
150	220	180	152	4	18	16

Submersible Sewage Pumps

Submersible Sewage Pumps



11-45kW(4P)



Flange Elbow
Hose Coupling
Float Switch

Applications

- Wastewater drainage in factories, construction sites and commercial facilities.
- Drainage system in municipal sewage treatment plants
- Drainage station in residential quarters
- Municipal projects
- Methane pools and field irrigation in countryside

Pump

- Max. immersion depth: 10m (0.75-5.5kw-2P), 20m (7.5kw-2P/5.5-45kw-4P)
- Cable length: 5 m
- Max. liquid temperature: up to +40°C
- Liquid PH value: 6 - 10
- Max. liquid density: $1.3 \times 10^3 \text{ kg/m}^3$
- Allowed by the particle diameter: 20 - 80 mm
- Float switch: single phase

Motor

- Copper winding
- Insulation class: B (0.75-5.5kw-2P), F (7.5kw-2P/5.5-45kw-4P)
- Protection class: IP68
- Motor protection: built in (0.75-7.5kw-2P, 5.5-7.5kw-4P)

Identification Codes

65 WQ D 15 - 10 - 1.1 (F)



0.75-1.5kW(2P) 2.2-5.5kW(2P) 7.5kW(2P) 5.5-7.5kW(4P)

(Hose coupling as standard. Flange elbow is available on request.)

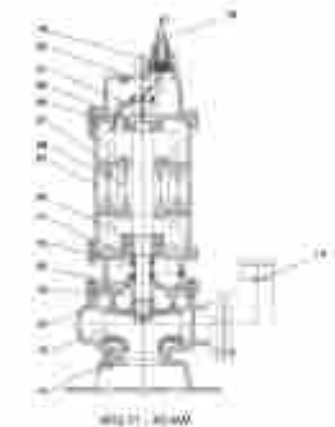
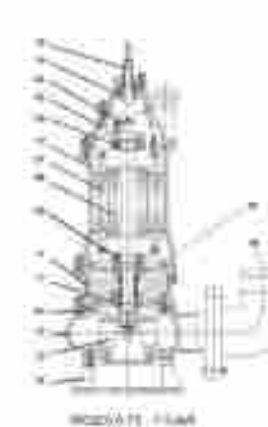
Technical Data

Model	Voltage	Speed	Max flow	Max head	Motor Power	Outlet	Guide Pipe Fitting	Impeller passage	N.W	G.W	Packing dimension	
	V	r.p.m	m³/h	m	kW	HP	in	mm	kg	kg	mm	
50WQ10-10-0.75	380	2850	25	12	0.75	1	2	50-50	25	18.5	22	400x250x240
50WQ10-10-0.75(F)	220	2850	25	12	0.75	1	2	50-50	25	18.5	21	400x250x240
50WQ15-15-1.1	380	2850	29	15	1.1	1.5	2	50-50	30	24	25.5	400x250x240
50WQ15-15-1.1(F)	220	2850	29	15	1.1	1.5	2	50-50	30	25.5	27	400x250x240
55WQ15-15-1.1	380	2850	33	15	1.1	1.5	2 1/2	50-50	35	23	24.5	400x250x240
65WQ15-15-1.1(F)	220	2850	33	15	1.1	1.5	2 1/2	50-50	35	23.5	25	400x250x240
50WQ20-20-1.5	380	2850	25	22	1.5	2	2	50-50	30	25	25	320x200x240
50WQ25-25-1.5(F)	220	2850	25	22	1.5	2	2	50-50	30	26	26	320x200x240
65WQ15-15-1.5	380	2850	37	20	1.5	2	2 1/2	50-50	35	28.5	26	510x250x240
65WQ15-15-1.5(F)	220	2850	37	20	1.5	2	2 1/2	50-50	35	28.5	26	510x250x240
80WQ15-15-2.2	380	2850	45	22	2.2	3	2	50-50	40	44	48	590x250x240
80WQ20-20-2.2	380	2850	42	22	2.2	3	2 1/2	65-65	35	42	46	600x250x240
85WQ20-20-2.2	380	2850	44	18	2.2	3	3	65-65	35	46	51.5	710x250x240
90WQ15-35-3	380	2850	46	35	3	4	3	50-50	35	49	54	710x250x240
85WQ25-23-3	380	2850	52	26	3	4	2 1/2	65-65	35	50	57	710x250x240
90WQ10-13-3	380	2850	75	20	3	4	3	80-80	30	54	60	700x250x225
100WQ10-13-3	380	2850	82	19	3	4	4	100-100	30	57	63	700x250x225
65WQ15-35-4	380	2850	58	35	4	5.5	2 1/2	65-65	35	60	66	700x250x225
80WQ10-13-4	380	2850	81	24	4	5.5	3	80-80	30	64	71.2	800x250x225
100WQ10-13-4	380	2850	93	24	4	5.5	4	100-100	30	68	73	800x250x225
50WQ15-40-5.5	380	2850	12	42	5.5	7.5	2	50-50	25	73	81	750x200x230
90WQ20-30-5.5	380	2850	47	36	5.5	7.5	3	80-80	30	73	80	800x250x225
100WQ20-15-5.5	380	2850	110	25	5.5	7.5	4	100-100	30	79	89	810x200x225
90WQ20-40-7.5	380	2850	37	52	7.5	10	2	50-50	25	114	127.5	830x250x230

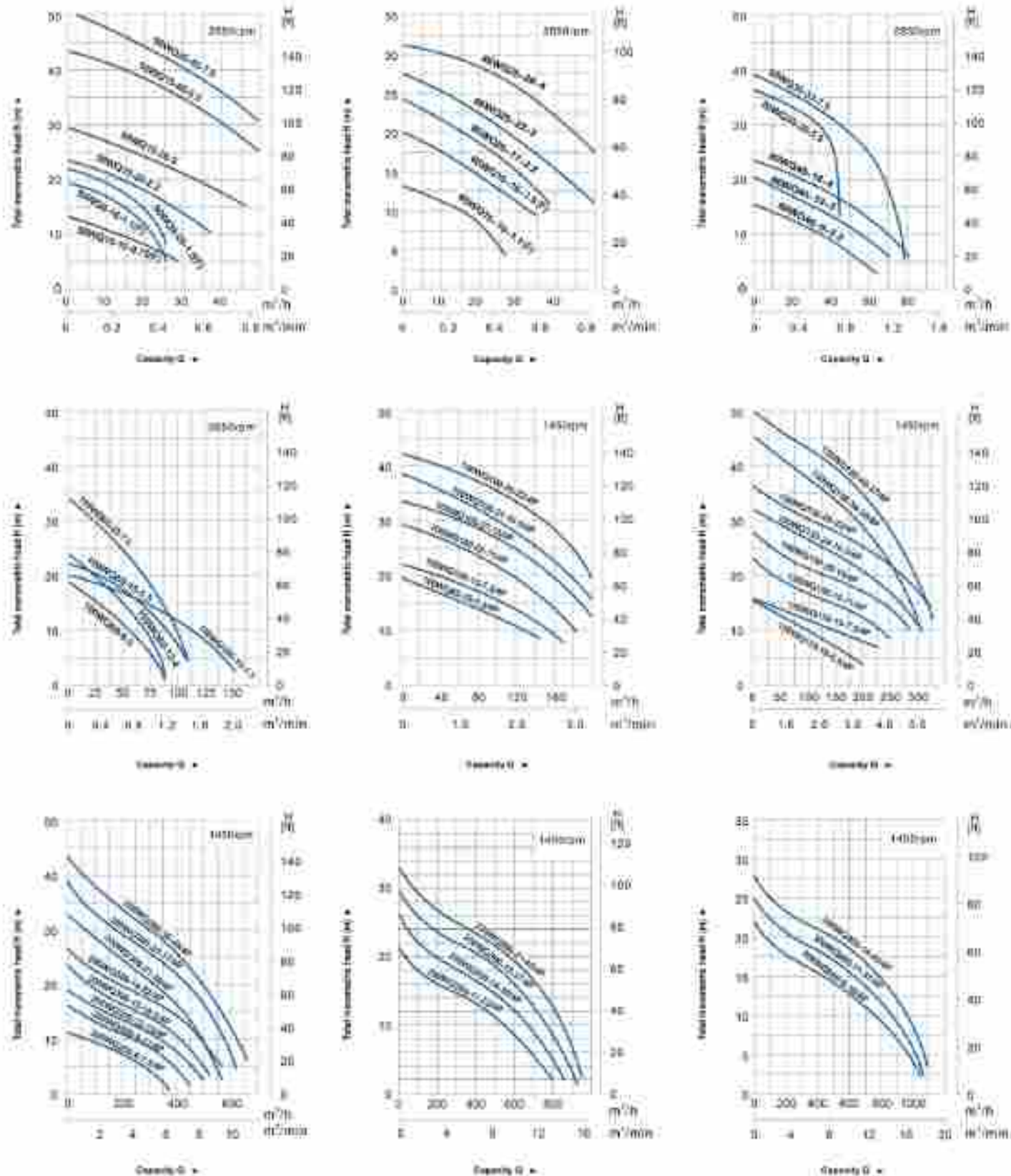
Model	Voltage	Speed	Max flow	Max head	Motor Power	Outlet	Guide Pipe Fitting	Impeller passage	N.W	G.W	Packing dimension	
	V	r.p.m	m³/h	m	kW	HP	in	mm	kg	kg	mm	
60WQ100-33-7.5	380	2850	65	40	7.5	10	2	80-80	30	112	120	830x250x230
100WQ25-30-7.5	380	2850	110	34	7.5	10	4	100-100	35	115	120.8	860x250x230
100WQ2100-30-7.5	380	2850	90	20	7.5	10	5	100-100	35	115	130	1010x250x230
100WQ20-15-5.5(F)	220	1450	150	19	5.5	7.5	4	100-100	55	142	158	800x415x230
150WQ110-10-5.5(F)	220	1450	200	26	5.5	7.5	6	150-150	55	151	167.5	825x440x230
100WQ120-15-7.5(F)	380	1450	170	24	7.5	10	4	100-100	55	150	170	800x415x230
150WQ150-10-7.5(F)	380	1450	240	18	7.5	10	6	150-150	75	169	196	880x440x230
200WQ250-6-7.5(F)	380	1450	400	12	7.5	10	6	200-200	88	200	218	730x500x118
100WQ100-22-11(F)	380	1450	190	31	11	15	4	100-100	90	253	271	700x470x190
150WQ150-15-11(F)	380	1450	290	24	11	15	6	150-150	90	250	278	700x470x190
200WQ200-9-11(F)	380	1450	450	17	11	15	6	200-200	85	280	298	700x500x170
100WQ100-27-15(F)	380	1450	210	35	15	20	4	100-100	90	275	295	700x470x190
150WQ150-20-15(F)	380	1450	350	28	15	20	6	150-150	90	277	295	700x470x190
200WQ200-12-15(F)	380	1450	490	21	15	20	6	200-200	85	300	320	700x500x120
100WQ100-31-18.5(F)	380	1450	300	30	18.5	25	4	100-100	90	326	344.8	700x480x1240
150WQ150-24-18.5(F)	380	1450	300	32	18.5	25	6	150-150	90	307	340	700x480x1240
200WQ200-15-18.5(F)	380	1450	530	25	18.5	25	6	200-200	85	354	373	700x500x120
100WQ100-35-22(F)	380	1450	220	44	22	30	4	100-100	90	340	356.5	700x480x1240
150WQ150-28-22(F)	380	1450	330	36	22	30	6	150-150	90	347	367	700x480x1240
200WQ200-19-23(F)	380	1450	550	27	22	30	6	200-200	85	374	395	720x510x1280
250WQ250-11-24(F)	380	1450	800	22	22	30	10	250-250	90	390	411	700x500x1250
100WQ100-34-30(F)	380	1450	310	45	30	40	6	100-100	90	487	519	780x500x1430
200WQ200-21-30(F)	380	1450	670	33	30	40	6	200-200	80	519	541	800x500x1470
250WQ250-14-30(F)	380	1450	950	27	30	40	10	250-250	85	512	530	780x500x1400
300WQ300-9-30(F)	380	1450	1040	22	30	40	10	300-300	90	557	581	800x500x1540
150WQ150-45-33(F)	380	1450	130	50	33	45	6	150-150	90	557	570	780x500x1480
200WQ200-25-37(F)	380	1450	820	39	37	50	6	200-200	80	676	706	800x500x1520
250WQ250-18-37(F)	380	1450	1150	30	37	50	10	250-250	85	670	690	780x500x1540
300WQ300-11-37(F)	380	1450	1060	25	37	50	10	300-300	90	614	636	880x720x1590
300WQ300-30-40(F)	380	1450	600	43	40	60	6	200-200	80	612	634	800x500x1520
250WQ250-21-40(F)	380	1450	850	34	40	60	10	250-250	85	606	629	780x500x1540
300WQ300-14-40(F)	380	1450	1080	28	40	60	10	300-300	90	620	674	880x720x1640

Materials Table

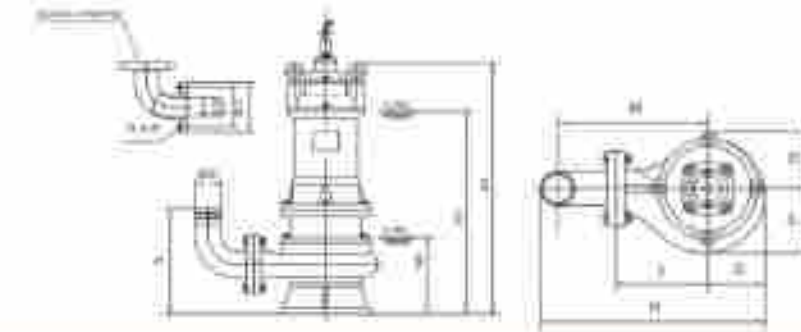
Item No.	Part Name	Material
01	Handle	Steel
02	Upper cover	Cast iron
03	Capacitor	
04	Thermal protector	
05	Upper bearing seal	Cast iron
06	Sealing	
07	Stator	
08	Rotor	
09	Gearing	
10	Motor body	Cast iron
11	Bearing seat	Cast iron
12	Pump body	Cast iron
13	Impeller	Cast iron
14	Base	Cast iron
15	Cable	
16	Mechanical seal	Si-Cr/Carbon-Carbon/PEEK Si-Cr/Carbon/PEEK
17	Oil seal	
18	Motor coupling	Cast iron
19	Terminal box	Cast iron
20	Seal flange	Cast iron
21	Wiring terminal	



Hydraulic Performance Curves

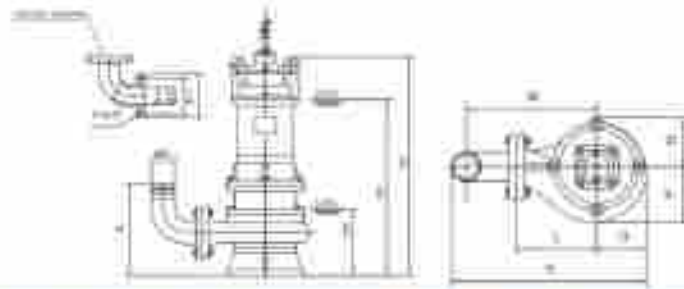


Dimension



Model	φD	φA1	φB1	φC1	φ-φH1	H	W1	W2	H3	H	φ	P	Q	L	M
QW15-10-0.75	80	60	110	140	4-φ14	200	310	100	448	332	30	36	35	128	182
QW20-15-0.75(F)	50	50	110	140	4-φ14	280	315	100	448	332	30	36	35	128	182
QW25-20-1.1	22	80	112	142	4-φ14	180	325	120	460	347	30	36	35	128	182
QW30-25-1.1(F)	30	90	110	140	4-φ14	190	325	120	460	347	30	36	35	128	182
QW40-30-1.1	15	90	112	142	4-φ14	190	345	120	460	347	30	36	35	128	182
QW50-40-1.1(F)	65	60	110	140	4-φ14	190	345	120	460	347	30	36	35	128	182
QW60-50-1.5	30	50	110	140	4-φ14	310	370	155	480	340	30	105	82	145	210
QW70-60-1.5(F)	50	50	115	145	4-φ14	290	390	155	500	348	30	105	82	145	210
QW80-70-1.1	11	50	112	142	4-φ14	180	345	120	460	347	30	36	35	128	182
QW100-90-1.1(F)	11	50	110	140	4-φ14	190	345	120	460	347	30	36	35	128	182
QW150-130-2.2	50	50	110	140	4-φ14	310	470	145	575	357	115	100	164	225	
QW200-160-2.2	65	65	150	180	4-φ14	325	470	145	575	353	115	100	164	234	
QW150-130-3	30	80	110	140	4-φ14	290	475	150	580	360	105	111	90	190	260
QW175-140-3	30	50	112	142	4-φ14	210	420	140	570	357	110	112	100	164	225
QW225-180-3	65	65	130	160	4-φ14	225	425	140	570	363	110	112	100	164	234
QW250-200-3	30	80	150	180	4-φ15	270	450	170	630	367	110	110	160	155	240
QW300-250-3	110	80	172	210	4-φ18	295	480	170	630	410	115	115	100	155	255
QW325-280-4	11	50	130	160	4-φ14	240	470	150	630	406	111	110	100	178	240
QW345-300-4	11	60	150	180	4-φ18	280	480	185	630	407	110	110	100	180	250
QW400-350-4	110	80	170	210	4-φ18	305	480	185	630	420	110	110	100	180	260
QW415-40-5.5	30	50	112	142	4-φ14	230	475	160	675	386	125	130	110	175	230
QW430-40-5.5	30	60	130	160	4-φ18	270	485	175	680	427	115	130	110	175	230
QW450-45-5.5	100	100	170	210	4-φ18	285	500	190	700	462	130	140	115	180	240
QW470-45-7.5	30	50	110	140	4-φ12	285	540	190	4700	449	140	140	134	200	264
QW530-50-7.5	30	80	150	180	4-φ18	330	540	240	700	450	140	140	134	200	264
QW600-50-7.5	110	100	170	210	4-φ18	340	580	230	750	513	145	154	135	200	260
QW700-100-7.5	110	130	225	260	4-φ18	400	670	240	750	538	145	160	130	210	240

Dimension



Model	φD	φA1	φS1	φC1	n-φd1	h	W1	W2	H3	N	φ	F	Q	L	M
120WQ05-15-5.5AP	100	100	170	210	4-φ18	380	365	210	305	620	130	200	177	290	180
150WQ10-10-5.5AP	150	150	225	265	5-φ18	430	415	285	355	720	200	215	185	300	430
180WQ15-7.5AP	100	100	170	210	4-φ18	360	350	210	300	620	100	200	177	290	180
150WQ15-10-7.5AP	150	150	225	265	5-φ18	430	420	290	360	720	200	215	185	300	430
200WQ20-6-7.5AP	200	200	280	340	6-φ22	540	530	320	410	980	230	230	190	350	530
100WQ100-22-11AP	100	100	170	210	4-φ18	355	350	210	310	670	200	217	185	310	410
150WQ150-15-11AP	150	150	225	265	5-φ18	440	430	285	340	750	200	225	185	320	470
200WQ300-9-11AP	200	200	280	340	6-φ22	540	530	320	400	960	230	230	190	340	540
100WQ100-27-15AP	100	100	170	210	4-φ18	355	350	210	355	670	200	217	185	310	410
150WQ150-20-15AP	150	150	225	265	5-φ18	440	430	285	360	750	200	225	185	320	470
200WQ300-12-15AP	200	200	280	340	6-φ22	540	530	320	420	980	230	230	190	340	540
100WQ100-31-18.5AP	100	100	170	210	4-φ18	355	350	210	410	670	210	227	200	320	420
150WQ150-24-18.5AP	150	150	225	265	5-φ18	410	400	290	370	790	220	230	200	330	480
200WQ300-18-18.5AP	200	200	280	340	6-φ22	540	530	320	430	980	230	230	200	350	550
100WQ100-36-22AP	100	100	170	210	4-φ18	355	350	210	490	670	210	227	200	320	420
150WQ150-28-22AP	150	150	225	265	5-φ18	410	400	290	450	790	220	230	200	330	480
200WQ300-16-22AP	200	200	280	340	6-φ22	540	530	320	450	980	230	230	200	350	550
250WQ500-11-22AP	250	250	330	390	12-φ22	630	620	400	490	1150	280	240	270	400	670
150WQ150-34-30AP	150	150	225	265	5-φ22	475	460	340	420	900	270	280	270	380	580
200WQ300-21-30AP	200	200	280	340	6-φ22	580	570	380	470	1070	280	300	270	390	620
250WQ500-14-30AP	250	250	330	390	12-φ22	630	620	400	490	1200	300	320	270	410	680
300WQ800-8-35AP	300	300	400	480	12-φ22	710	700	430	510	1300	340	360	290	430	730
150WQ150-40-37AP	150	150	225	265	5-φ22	480	470	340	430	900	270	280	270	380	580
200WQ300-28-37AP	200	200	280	340	6-φ22	580	570	380	470	1070	280	300	270	390	620
250WQ500-18-37AP	250	250	330	390	12-φ22	680	670	400	490	1180	300	320	270	410	680
300WQ800-11-37AP	300	300	400	480	12-φ22	750	740	430	510	1300	340	360	290	430	730
300WQ300-32-45AP	300	300	390	470	6-φ22	580	570	380	470	1070	280	300	270	390	620
250WQ500-21-45AP	250	250	330	390	12-φ22	680	670	400	490	1180	300	320	270	410	680
300WQ800-14-45AP	300	300	400	480	12-φ22	750	740	430	510	1300	340	360	290	430	730

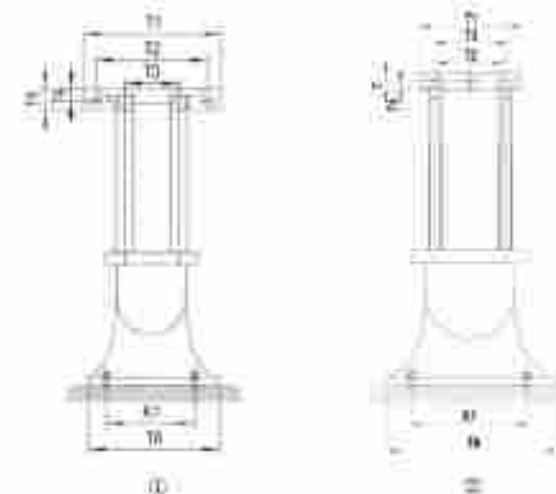


Guide Rail System

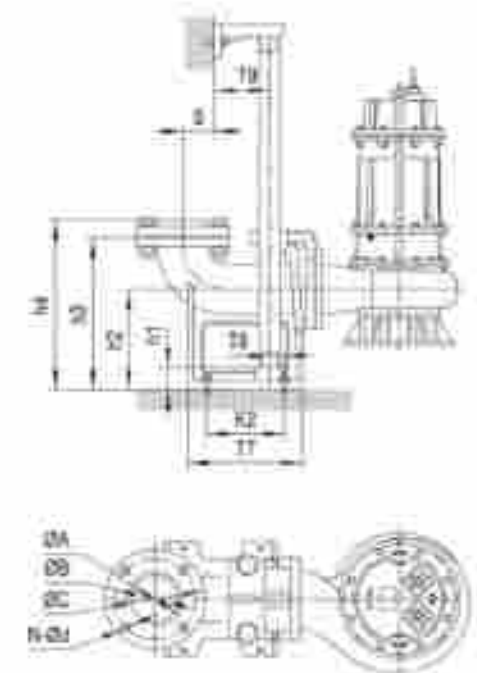
- Suitable for pumps with flange conforming ISO7005-02 standard.
- Automatic engagement with flanged elbow

Includes

- Dual-foot belt
 - Guide hook
 - Flange connector
 - Upper guide support
 - Bolts and lock washer(s)
- (Foundation bolts and guide pipes are not included)



(a) T2 > T3, Model 50-50(PW6) to 100-100(PW6)
 (b) T2 < T3, Model 150-100(PW6) to 300-300(PW10)



Model	φA	φB	φC	φd	T1	T2	T3	T4	T5	T6	T7	T8	T9	K1	K2	z	H1	H2	H3	l	ll	ll'			
50-50(PW)	φ100/52	110	140	4-φ14	255	215	105	25	42	200	210	15	67	155	135	63	25	180	200	280	F1403.5x3.5	4-M16x120	2-W12x40		
65-65(PW)	φ65/52	110	130	4-φ14	200	230	120	10	50	250	220	20	75	100	100	50	25	180	200	280	F1403.5x3.5	4-M16x120	2-W12x40		
80-80(PW)	φ80/52	130	150	4-φ18	315	265	140	27	50	250	220	20	70	210	130	77	25	180	200	280	F1404.5x3.5	4-M16x120	2-W12x40		
100-100(PW)	φ100/54	170	210	4-φ18	365	305	170	32	55	290	260	25	90	245	170	100	25	230	250	360	F1404.5x3.5	4-M16x150	2-W12x50		
150-150(PW)	φ150	225	265	5-φ18	400	390	240	24	60	400	410	25	90	280	200	100	300	300	430	-	F1404.5x3.5	4-M20x150	2-W14x50		
150-100(PW10)	φ150	240	280	6-φ22	400	390	280	24	60	400	410	25	90	280	200	100	300	300	430	-	F1404.5x3.5	4-M20x150	2-W14x50		
200-200(PW10)	φ200	290	340	6-φ22	400	390	280	24	60	400	440	25	90	300	200	100	330	330	440	320	550	-	F1404.5x3.5	4-M20x150	2-W14x50
250-250(PW10)	φ250	350	390	12-φ22	400	390	280	24	60	480	350	25	90	360	250	100	360	360	450	380	520	-	F1404.5x3.5	4-M20x150	2-W14x50
300-300(PW10)	φ300	400	440	12-φ22	520	340	370	32	65	550	400	25	110	410	250	100	410	410	470	410	730	-	F1405.5x3.5	4-M24x200	2-W16x50

φ = Dimensions of tube for guide rail
 z = Quantity and specification of foundation bolt
 H = Quantity and specification of upper guide rail bolt



Applications

- Wastewater drainage in factories, construction sites and commercial facilities
- Drainage system in municipal sewage treatment plants
- Drainage station in residential quarters
- Municipal projects
- Methane pools and fluid irrigation in countryside

Pump

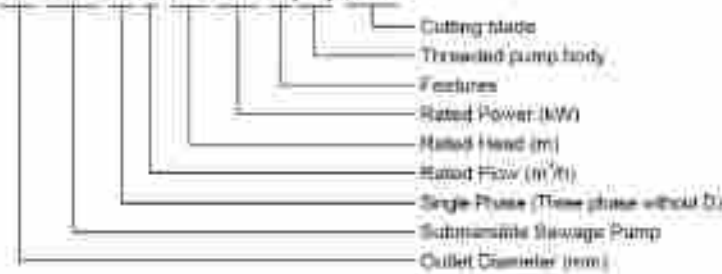
- Cable length: Standard with 10m
- All electrophoresis casting parts
- High strength cutting system
- Flexible installations with hoses, pipes or quick coupling
- Double-end mechanical seal
- Stainless Steel welded shaft
- Liquid density $\leq 1.2 \times 10^4 \text{kg/m}^3$
- Liquid temperature: 0 - 40 °C
- Liquid PH value: 4 - 10
- Max. immersion Depth: 5 m

Motor

- Current available with :220V/50HZ; 380V/50HZ
- Running mode:S1
- Copper winding
- Insulation class: F
- Ingress protection: IPX3

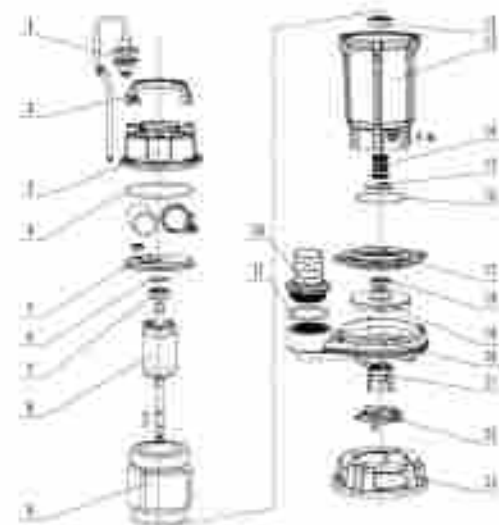
Identification Codes

50 WQ D 8-16-1.1 T(M)/QG



Materials Table

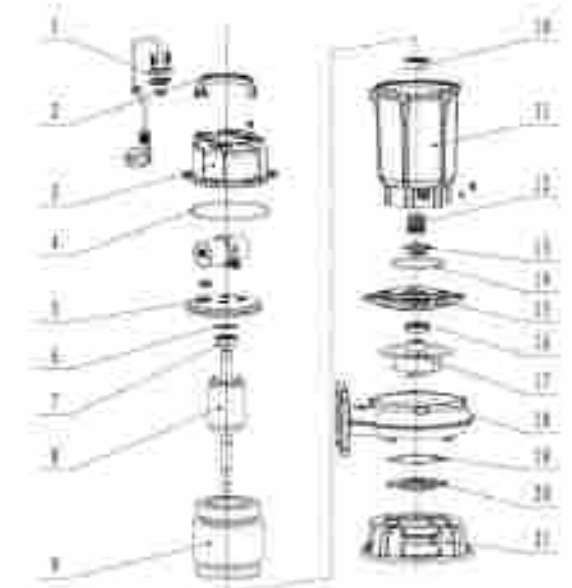
Item No.	Part Name	Material
1	Cable	
2	Handle	PP-GF15
3	Tail Cover	HT200
4	O-Ring	NBR
5	End Cover	HT200
6	Wave Spring Washer	65Mn
7	Bearing	2.3x6x32x1.1Nu5004
8	Rotor	Shaft:G2004+42# Steel
9	Stator	
10	Tail water collector	HT200
11	Rubber washer	NBR
12	Bearing	2.75x22x1.1Nu5204
13	Motor Casing	HT200
14	Mechanical Seal	QZG206A/QP1F1F1
15	Pressing plate	SS304
16	O-Ring	NBR
17	Cylinder Head	HT200
18	Oil Seal	NBR
19	Impeller	HT200
20	Pump Body	HT200
21	Cable	SC18
22	Fixed rotor head	SC18
23	Base	HT200



0.75 - 1.1kW
Thread connector

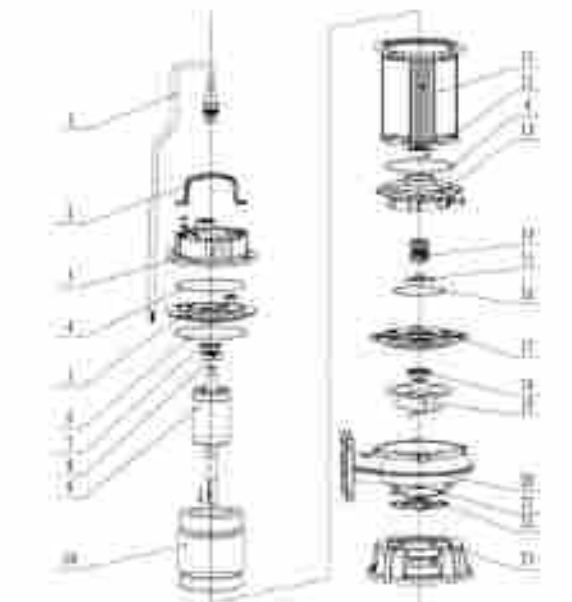
Materials Table

Item No.	Part Name	Material
1	Cable	
2	Handle	PP-GF15
3	Tail Cover	HT200
4	O-Ring	NBR
5	End Cover	HT200
6	Wave Spring Washer	65Mn
7	Bearing	6203
8	Rotor	Shaft:G2004+42# Steel
9	Stator	
10	Bearing	6204
11	Motor Casing	HT200
12	Mechanical Seal	QZG206A/QP1F1F1
13	Pressing plate	SS304
14	O-Ring	NBR
15	Cylinder Head	HT200
16	Oil Seal	NBR
17	Impeller	HT200
18	Pump Body	HT200
19	Paper gasket	Highland honey paper
20	Fixed rotor head	SC18
21	Base	HT200



1.1kW
Flange connector

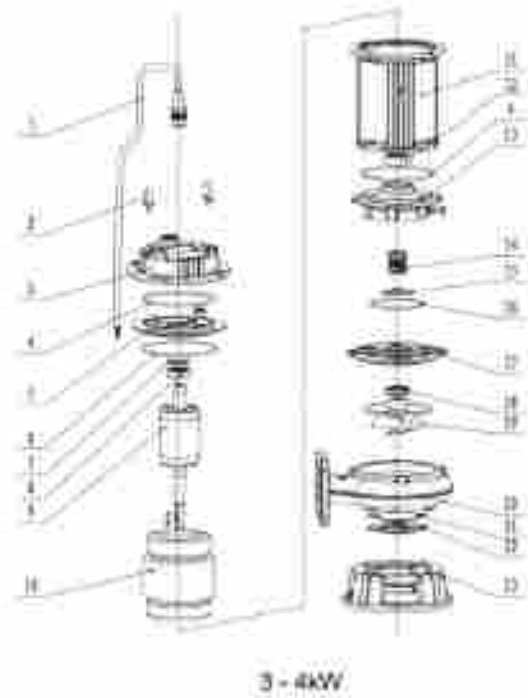
Item No.	Part Name	Material
1	Cable	
2	Handle	SS304
3	Tail Cover	HT200
4	O-Ring	NBR
5	End Cover	HT200
6	O-Ring	NBR
7	Wave Spring Washer	65Mn
8	Bearing	6203
9	Rotor	Shaft:G2004+42# Steel
10	Stator	
11	Motor Casing	HT200
12	Bearing	2.3x6x32x1.1Nu5004
13	Oil chamber	HT200
14	Mechanical Seal	QZG206A/QP1F1F1
15	Pressing plate	SS304
16	O-sealing ring	NBR
17	Cylinder Head	HT200
18	Oil Seal	NBR
19	Impeller	SC18
20	Pump Body	HT200
21	Paper gasket	Highland honey paper
22	Fixed rotor head	SC18
23	Base	HT200



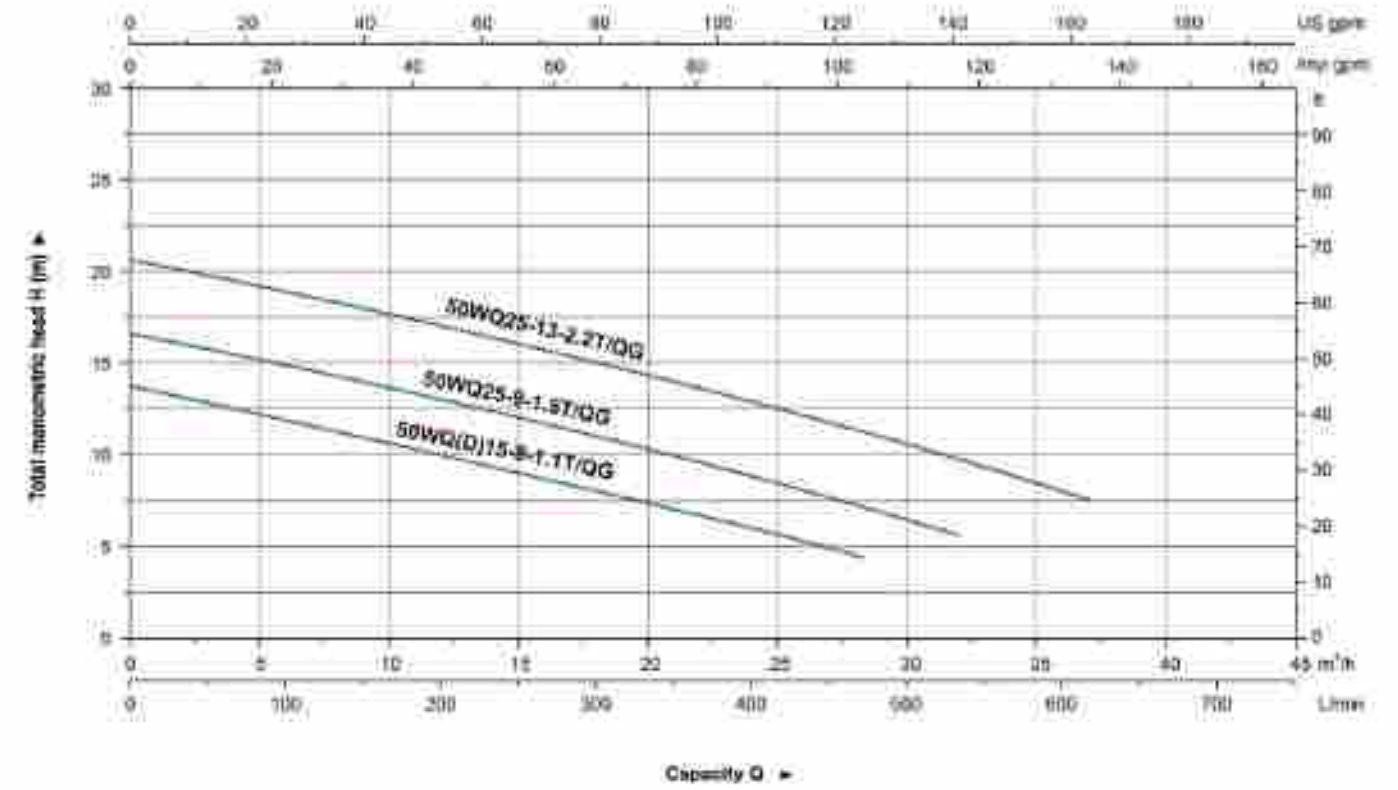
1.5 - 2.2kW

Materials Table

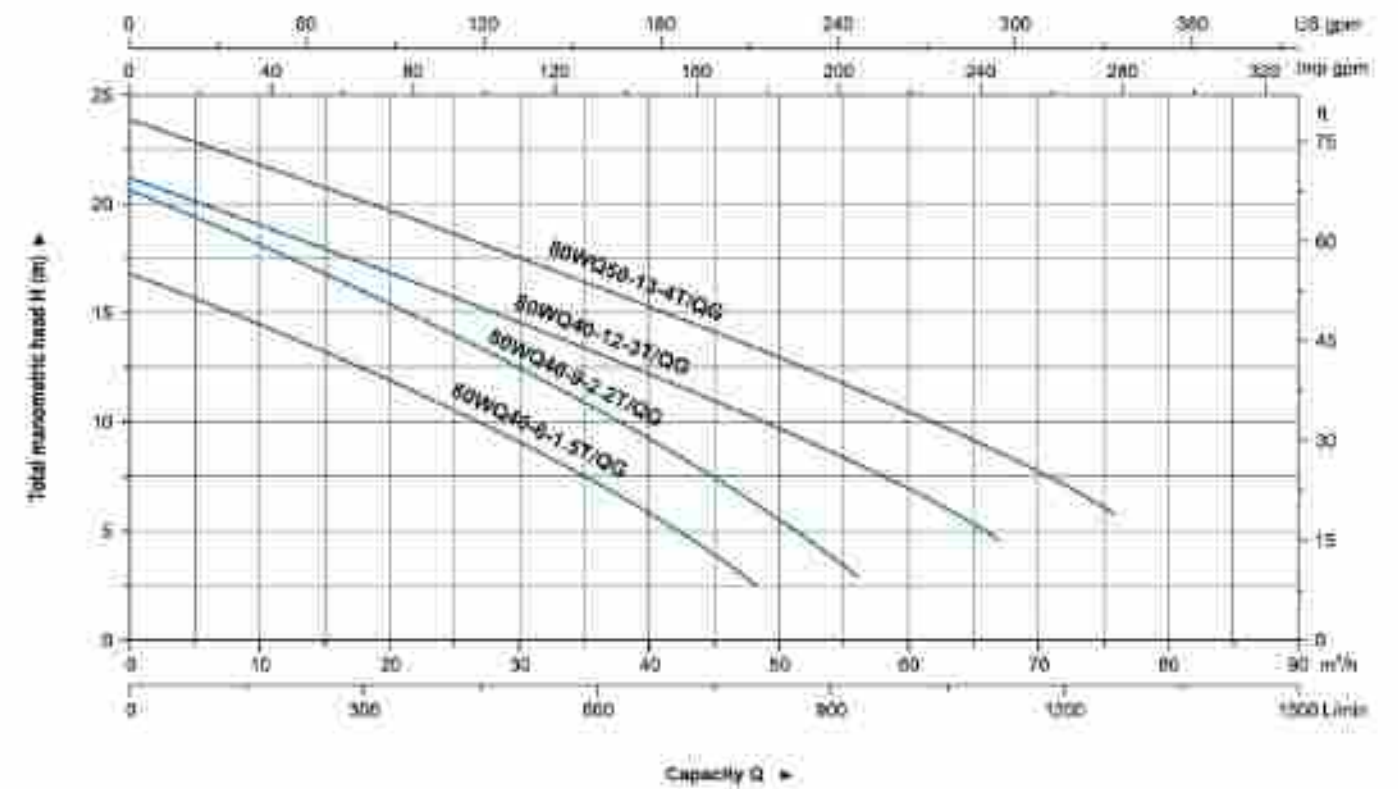
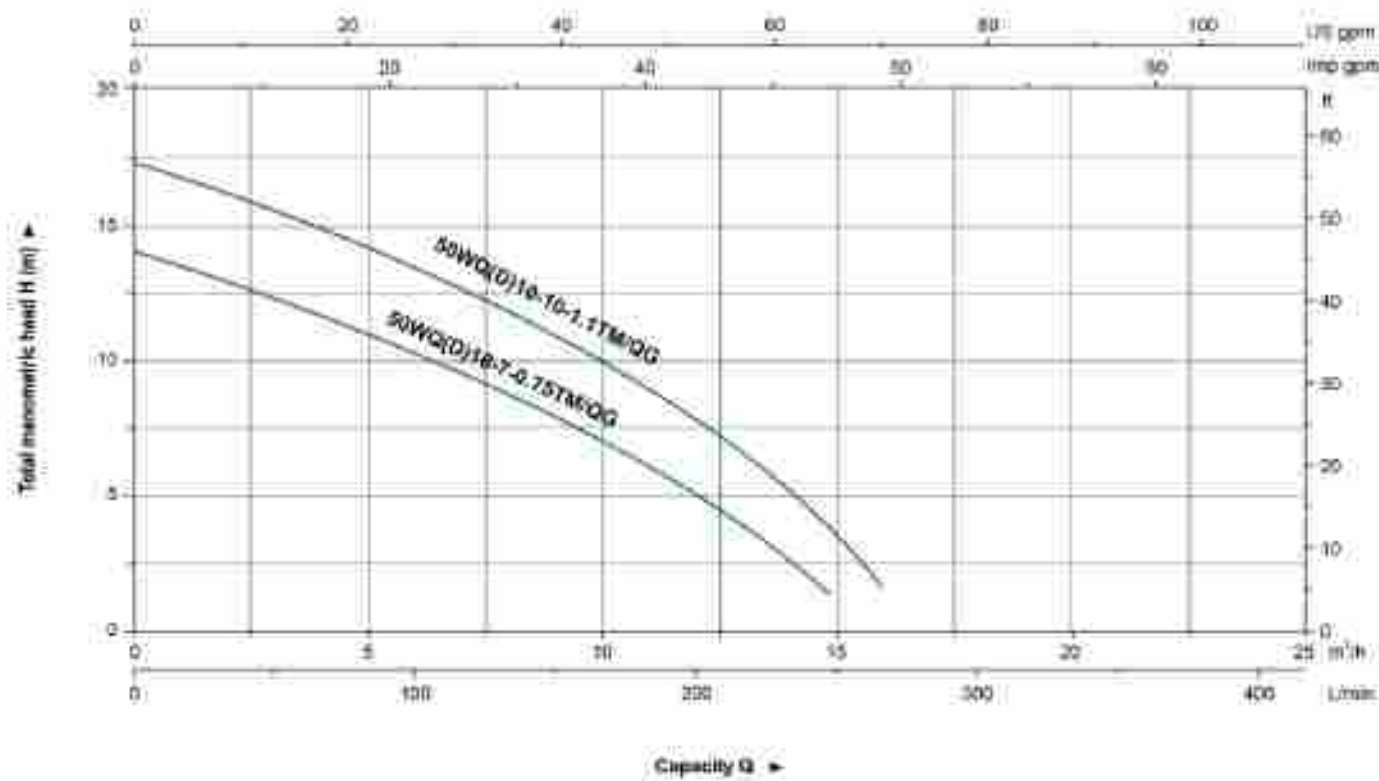
Item No.	Part Name	Material
1	Cable	
2	Handle	SS304
3	Top Cover	H7200
4	O-Ring	NBR
5	End Cover	H7200
6	O-Ring	NBR
7	Wash Spring (Water)	SS304
8	Sealing	SS304
9	Rotor	Stainless Steel
10	Stator	
11	Motor Casing	H7200
12	Sealing	SS304
13	Oil chamber	H7200
14	Mechanical Seal	CG200BBA/JPH1101
15	Pressing	SS304
16	O ₂ Sealing Ring	NBR
17	Cylinder Head	H7200
18	Oil Seal	
19	Inverter	3018
20	Pump Body	H7200
21	Pump gasket	High-strength rubber
22	Fixed outer head	3018
23	Base	H7200



Hydraulic Performance Curves



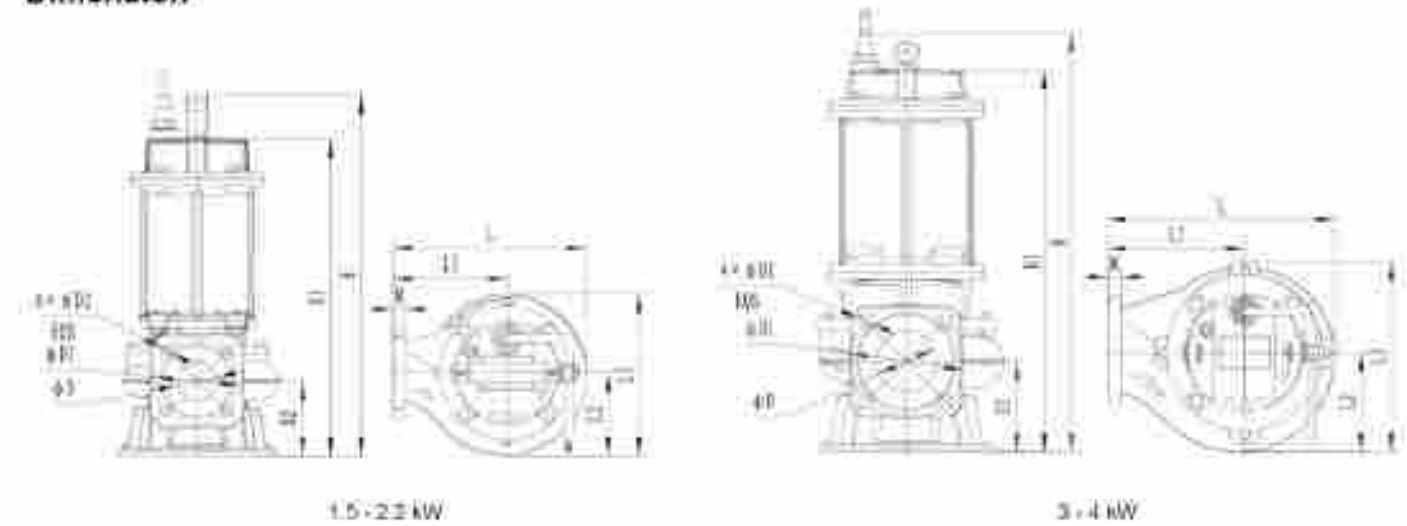
Hydraulic Performance Curves



Technical Data

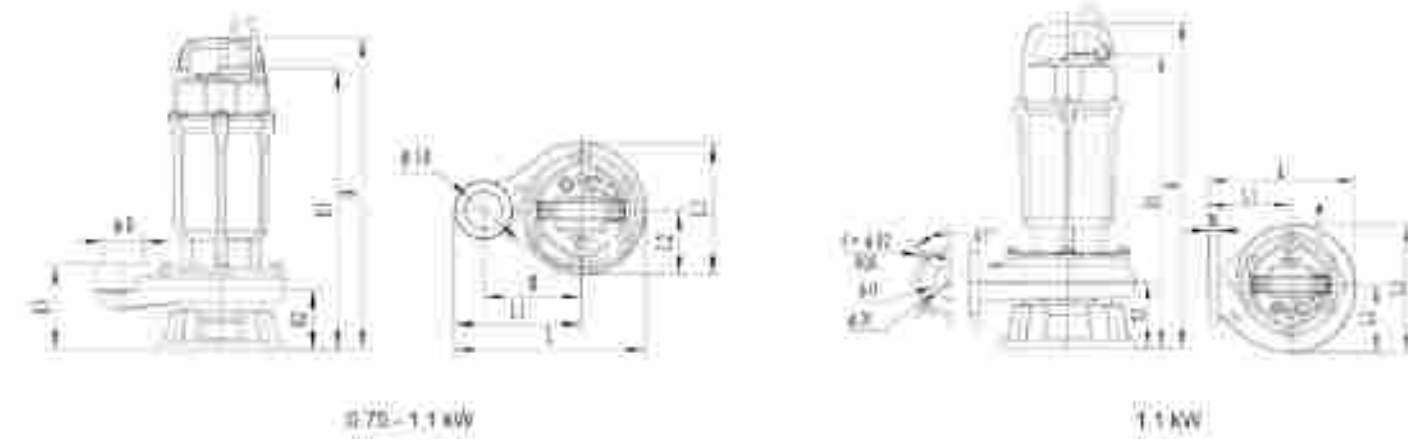
Model	Voltage	Speed	Max. Flow	Max. Head	Power		Outlet	Guide Rail	N.W.	G.W.	Packing Dimension	Quantity
	V	r.p.m.	m ³ /h	m	KW	HP	inch	Fitting	kg	kg		
50WQ10-7-0.75T/QG	220	2900	14	14	0.75	1	2"	50-50	10.1	11.3	404x200x214	1000
50WQ10-7-0.75I/QG	220	2900	14	14	0.75	1	2"	50-50	10.4	11.6	404x200x214	1000
50WQ15-10-1.1T/QG	220	2900	18	17	1.1	1.5	2"	50-50	21.0	23.0	544x200x244	792
50WQ15-10-1.1T/QG	380	2900	18	17	1.1	1.5	2"	50-50	20.2	24.1	544x200x244	792
50WQ15-9-1.1I/QG	220	2900	20	14	1.1	1.0	2"	50-40	22.5	26.2	544x200x244	792
50WQ15-9-1.1I/QG	380	2900	20	14	1.1	1.5	2"	50-40	21.1	26.8	544x200x244	792
50WQ25-5-1.5T/QG	380	2900	32	16	1.5	2	2"	50-40	25	30.7	544x200x244	792
50WQ40-6-1.5I/QG	220	2900	48	17	1.5	2	2"	50-50	27.0	35.52	604x200x248	678
50WQ25-13-2.2T/QG	380	2900	37	20	2.2	3	2"	50-40	28.3	35.27	604x200x244	678
50WQ40-6-2.2I/QG	220	2900	56	21	2.2	3	2"	50-50	31.9	38.63	604x200x248	678
50WQ40-12-3T/QG	380	2900	68	21	3	4	2"	50-50	43.0	53.52	744x240x288	378
50WQ50-15-4T/QG	380	2900	78	25	4	5.5	2"	50-50	48.2	66.12	744x240x288	378

Dimension



Model	L	L1	L2	L3	M	H	H1	H2	D	D1	D2
50WQ25-6-1.5T/QG	345.5	145	106	206	18	457	399.5	94.5	50	110	14
50WQ40-6-1.5T/QG	372.5	160	117	229	18	472.5	415	110	50	150	19
50WQ25-13-2.2T/QG	345.5	140	106	206	18	480	427.5	94.5	50	110	14
50WQ40-6-2.2T/QG	372.5	160	117	229	18	500	450	110	50	150	19
50WQ40-12-3T/QG	298	179	130	248.0	18	544	498.2	110	50	150	19
50WQ50-15-4T/QG	298	179	130	248.0	18	544	498.5	110	50	150	19

Dimension



Model	L	L1	L2	L3	M	H	H1	H2	D	D1	D2
50WQ10-7-0.75T/QG	245	103	82.5	185	125	387.5	308	75	50	-	-
50WQ10-7-0.75I/QG	245	103	82.5	185	125	387.5	308	75	50	-	-
50WQ15-10-1.1T/QG	250	106	100	200	133	452.5	407.5	90	50	-	-
50WQ15-10-1.1T/QG	250	106	100	200	133	452.5	407.5	90	50	-	-
50WQ15-9-1.1I/QG	245.5	145	100.5	216	16	470.5	437.5	94.5	50	110	14
50WQ15-9-1.1I/QG	245.5	140	100.5	216	16	470.5	437.5	94.5	50	110	14



1.5-2.2kw



3.7KW



5.5KW

Application

- Civil engineering
- Mines, quarries, Coal ore & slurries
- Sewage treatment plants
- General pumping purposes

Pump

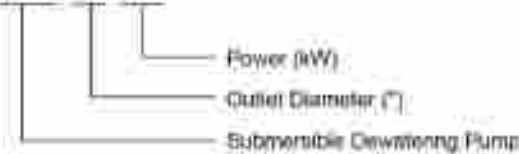
- Max. liquid temperature: +40°C
- Flow: up to 156 m³/h
- Head: up to 67 m
- Power: 1.5 kW (2 HP) to 15kW (20 HP)
- Max. immersion depth: 25 m
- Optional cable length

Motor

- Copper winding
- Insulation class: B
- Protection class: IP68

Identification Codes

KBZ 2 1.5

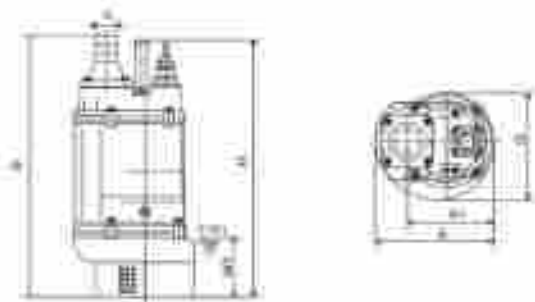


Technical Data

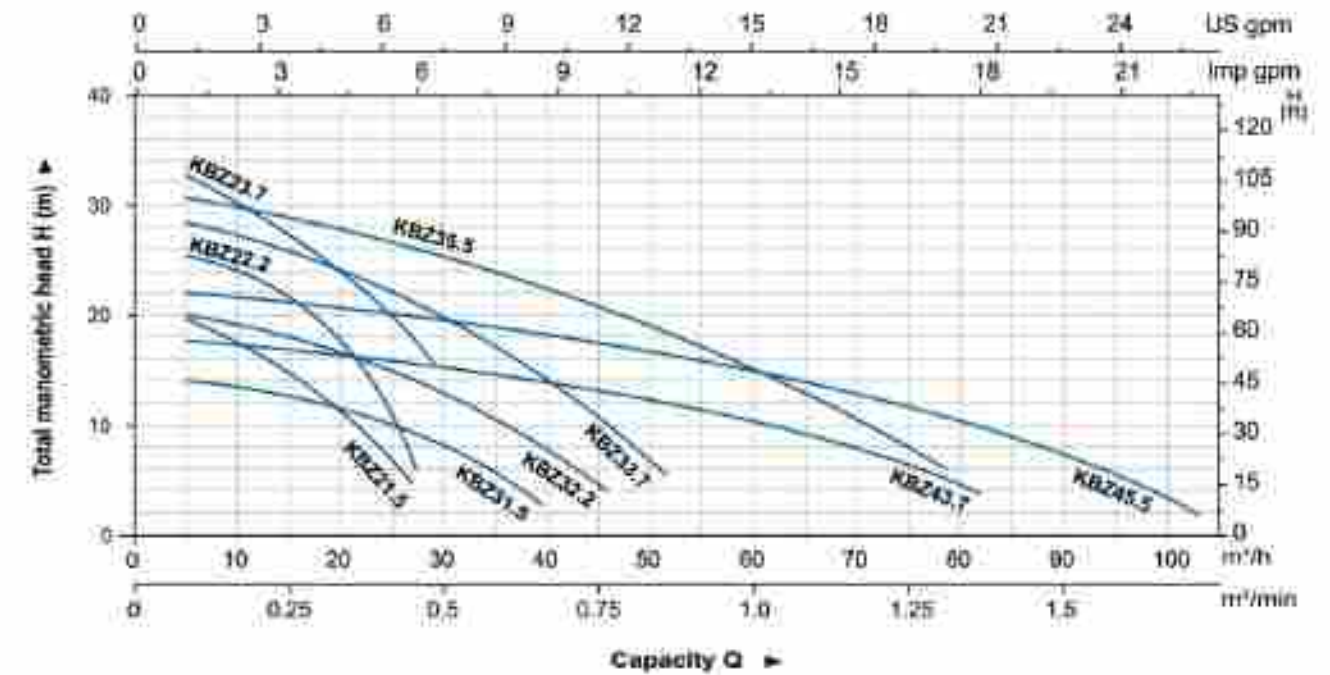
Model	Outlet mm	Power		Max head m	Max flow		Impeller package inch
		kW	HP		m ³ /h	gpm	
KBZ1.5	50	1.5	2	32	27	0.85	3.5
KBZ2.2	50	2.2	3	38	27	0.85	3.5
KBZ3.7	50	3.7	5	34	29	0.92	3.5
KBZ1.5	40	1.5	2	14.5	40	0.97	4.5
KBZ2.2	40	2.2	3	21	50	0.83	3.5
KBZ3.7	40	3.7	5	28	35	0.92	3.5
KBZ5.5	40	5.5	7.5	30	70	1.17	3.5
KBZ4.7	100	3.7	5	48	90	1.5	4.5
KBZ5.5	100	5.5	7.5	23	108	1.75	4.5

Dimension

Model	H	A	A1	E	D	H	W1
KBZ1.5	60	230	173	517	218	488	120
KBZ1.5	60	230	173	513	210	480	120
KBZ2.2	60	230	173	517	218	488	120
KBZ2.2	60	230	173	513	210	480	120
KBZ3.7	60	230	173	517	218	488	120
KBZ3.7	60	230	173	513	210	480	120
KBZ1.5	40	280	208	628	252	638	150
KBZ2.2	40	280	208	628	252	638	150
KBZ3.7	40	280	208	628	252	638	150
KBZ5.5	40	280	208	628	252	638	150
KBZ4.7	100	330	218	671	298	588	150
KBZ5.5	100	330	218	671	298	588	150

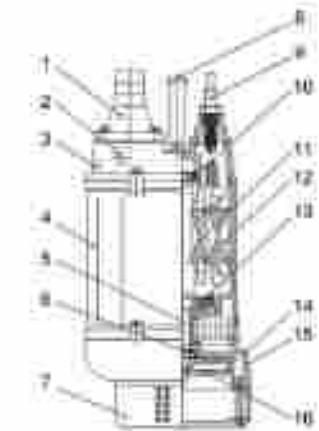


Hydraulic Performance Curves



Materials Table

No.	Part	Material	No.	Part	Material
1	Hose coupling	Cast iron	8	Cable	
2	Thermal protector		10	Bearing	
3	Upper cover	Cast iron	11	Motor	
4	Motor cover	Cast iron	12	Blade	
5	Oil seal		13	Bearing	
6	Mechanical seal	Lower Seal (upper Cable Seal) 304	14	Impeller	High strength alloy
7	Strainer	Steel	15	Pump body	Cast iron
8	Handle	Steel	16	Inner plate	Ductile iron



Package Information

Model	N.W (kg)	G.W (kg)	L (mm)	W (mm)	H (mm)	Quantity (PCS/QU/TEM)
KBZ1.5	34.5	37.5	385	270	270	648
KBZ2.2	56	59	385	270	270	648
KBZ3.7	60	65	385	270	270	648
KBZ1.5	24.5	27	385	270	270	648
KBZ2.2	56	59	385	270	270	648
KBZ3.7	60	65	385	270	270	648
KBZ1.5	27	30	720	330	370	288
KBZ2.2	51	55	685	325	355	408
KBZ4.7	78	85	720	330	370	288



Application

- Civil engineering
- Mines, quarries, Coal ore & slimes
- Sewage treatment plants
- General pumping purposes

Pump

- Max. liquid temperature: +40°C
- Flow: up to 156 m³/h
- Head: up to 57 m
- Power: 1.5 kW (2 HP) to 15kW (20 HP)
- Max. immersion depth: 25 m
- Optional cable length

Motor

- Copper winding
- Insulation class: B
- Protection class: IP58

Identification Codes

KBZ 4 7.5

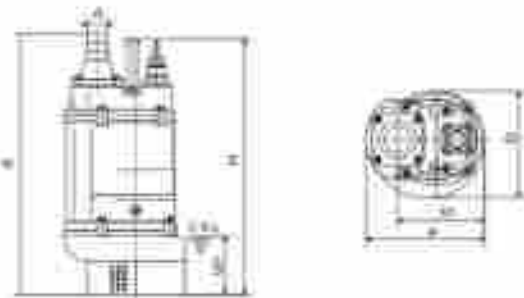


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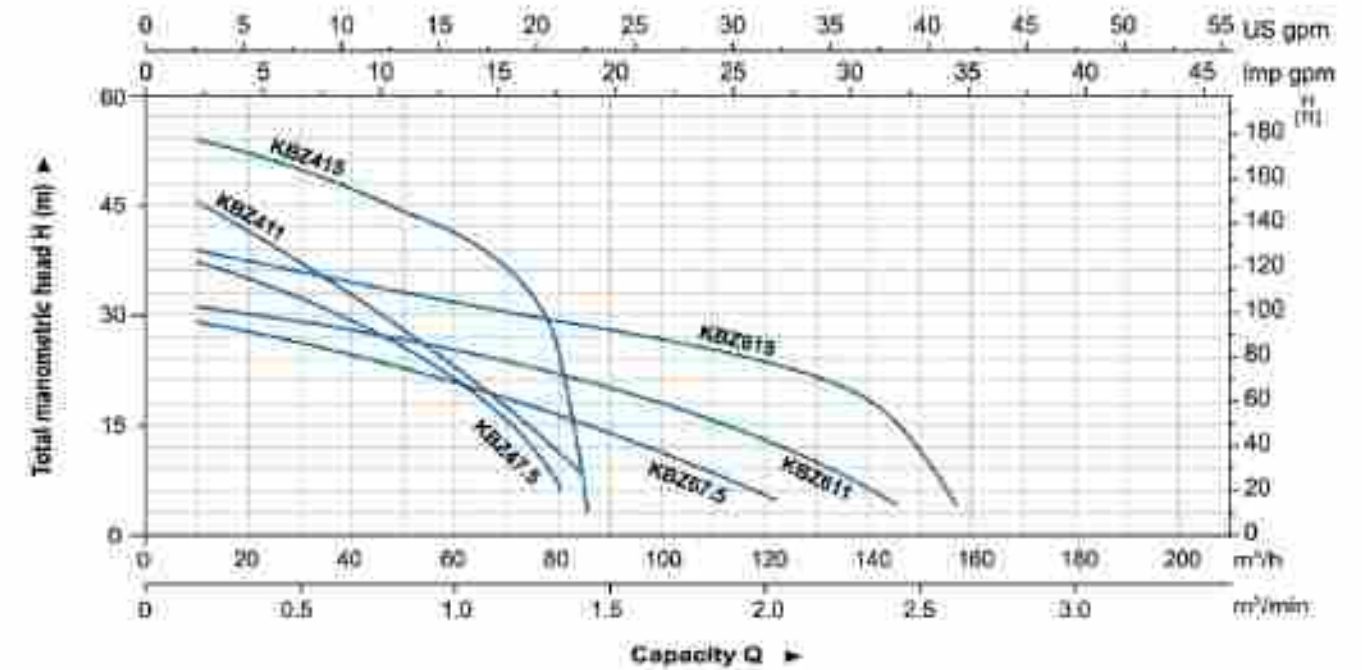
Model	Outlet mm	Power		Max head m	Max flow		Impeller passage mm
		kW	HP		m ³ /h	m ³ /min	
KBZ47.5	100	7.5	10	40	84	1.4	11.5
KBZ411	100	11	15	48.2	96.4	1.64	11.5
KBZ415	100	15	20	58	116.4	1.94	11.5
KBZ67.5	100	7.5	10	31	124.0	2.06	10.5
KBZ611	100	11	15	32	147	2.45	10.5
KBZ615	100	15	20	40	136	2.3	10.5

Dimension

Model	φ	A	A1	B	B1	H	W1
KBZ47.5	100	228	240	704	314	679	100
KBZ411	100	273	288	807	380	826	100
KBZ67.5	150	220	240	750	314	679	150
KBZ611	150	273	288	807	380	826	150
KBZ615	100	273	288	842	380	708	100
KBZ615	150	273	288	840	380	750	150
KBZ615	150	273	288	840	380	750	150

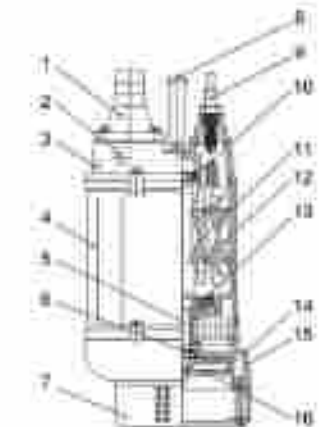


Hydraulic Performance Curves



Materials Table

No.	Part	Material	No.	Part	Material
1	Hose coupling	Cast iron	8	Cable	
2	Thermal protector		10	Bearing	
3	Upper cover	Cast iron	11	Motor	
4	Motor cover	Cast iron	12	Stator	
5	Oil seal		13	Bearing	
6	Mechanical seal	Upper: SiC/SiC Lower: Carbon/Graphite	14	Impeller	High strength alloy
7	Strainer	Steel	15	Pump body	Cast iron
8	Handle	Steel	16	Inner plate	Ductile iron



Package Information

Model	N.W (kg)	G.W (kg)	L (mm)	W (mm)	H (mm)	Quantity (PCS/SET)
KBZ47.5	105	114	802	288	380	215
KBZ411	130	140	802	415	440	100
KBZ615	142	153	844	415	440	90
KBZ67.5	106	114	802	288	380	200
KBZ611	131	143	802	415	440	100
KBZ615	145	156	802	415	440	100



Application

- Civil engineering
- Mines, quarries, Coal ore & slimes
- Sewage treatment plants
- General pumping purposes
- Pumping fluid: sludge, liquids containing mud and bentonite

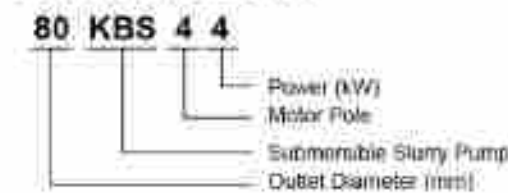
Pump

- Max. liquid temperature: +40°C
- Flow: up to 60 m³/h
- Head: up to 37 m
- Power: 1.5 kW (2 HP) to 15 kW (20 HP)
- Max. Immersion depth: 25 m
- Optional cable length

Motor

- Copper winding
- Insulation class: II
- Protection class: IP68

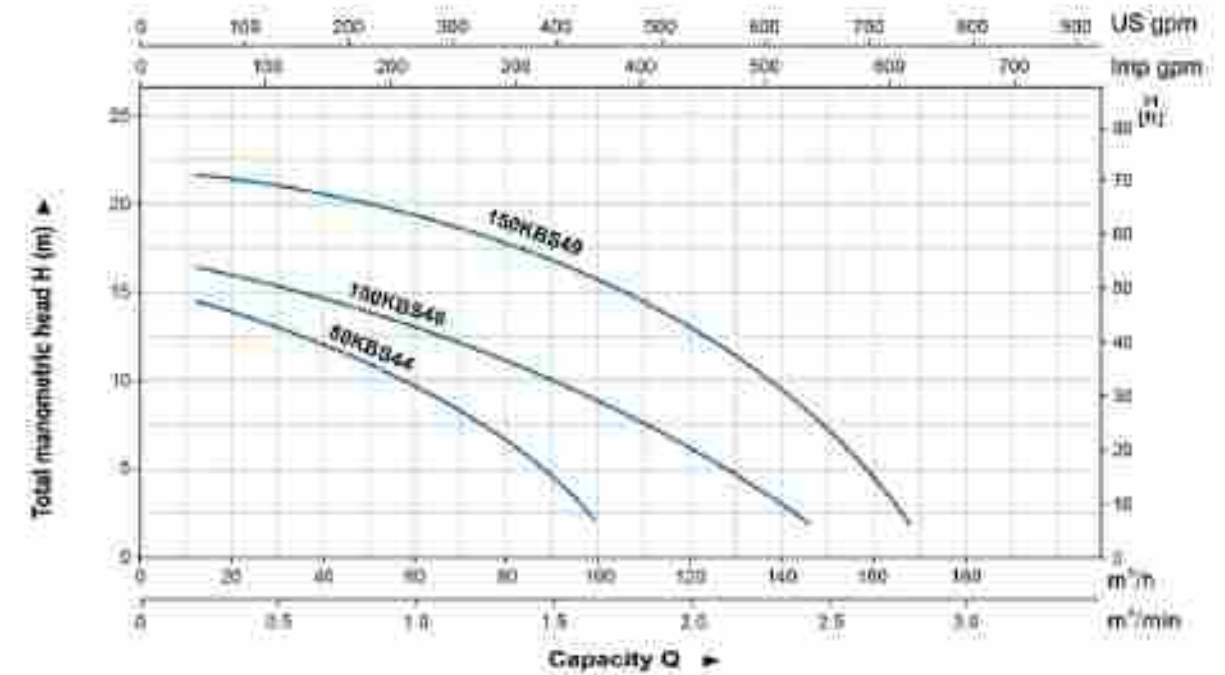
Identification Codes



Technical Data

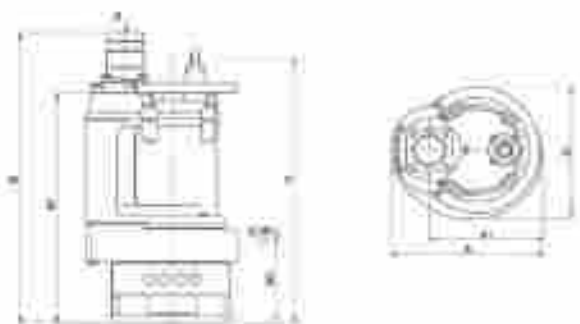
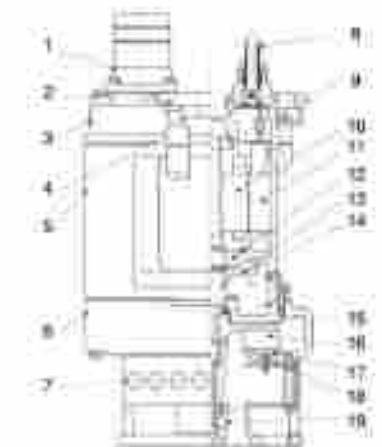
Model	Outlet mm	Power		Max head m	Max flow		Impeller passage mm
		kW	HP		m ³ /h	m ³ /min	
80KBS44	80	4	5.5	14.8	83	1.85	30
100KBS44	100	6	8	15.9	150	2.50	30
150KBS44	150	9	12	21.5	168	2.80	30

Hydraulic Performance Curves



Materials Table

No.	Part	Material	No.	Part	Material
1	Hook coupling	Cast iron	11	Stator	
2	Handle	Steel	12	Sealing	
3	Upper cover	Cast iron	13	Bearing house	Cast iron
4	Motor protector		14	Mechanical seal	SiC/SiC/AlC-SiC
5	Motor body	Cast iron	15	Oil seal	
6	Pump body	Cast iron	16	Impeller	High chrome alloy
7	Batteries	Steel	17	Wet parts	High chrome alloy
8	Cable		18	Wet base	Cast iron
9	Bearing		19	Agitator	High chrome alloy
10	Flange				



Dimension

Model	H	A	A1	B	B1	D	H	W1
80KBS44	98	350	200	818	888	328	730	290
100KBS44	130	415	305	844	918	373	730	290
150KBS44	180	494	354	888	958	403	778	280

Package Information

Model	N.W (kg)	G.W (kg)	L (mm)	W (mm)	H (mm)	Quantity (PCS/25/100)
80KBS44	105	112	355	415	400	130
100KBS44	145	156	410	475	390	140
150KBS44	175	186	475	475	390	110



3.7kw



1.5-2.2kw

Application

- Civil engineering
- Mines, quarries, coal ore & slimes
- Sewage treatment plants
- General pumping purpose

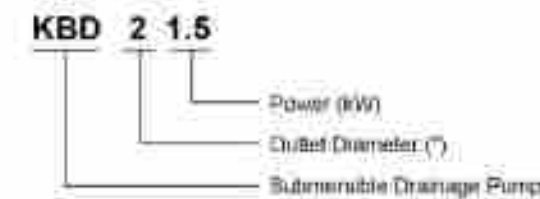
Pump

- Flow: up to 90 m³/h
- Head: up to 30 meters
- Max. liquid temperature: +40°C
- Max. immersion depth: 25 m

Motor

- Copper winding
- Insulation class: F
- Protection class: IP68
- Power: 1.5 kW(2HP) to 3.7 kW(5HP)
- Cable length: 10m as standard (Other length available on request)

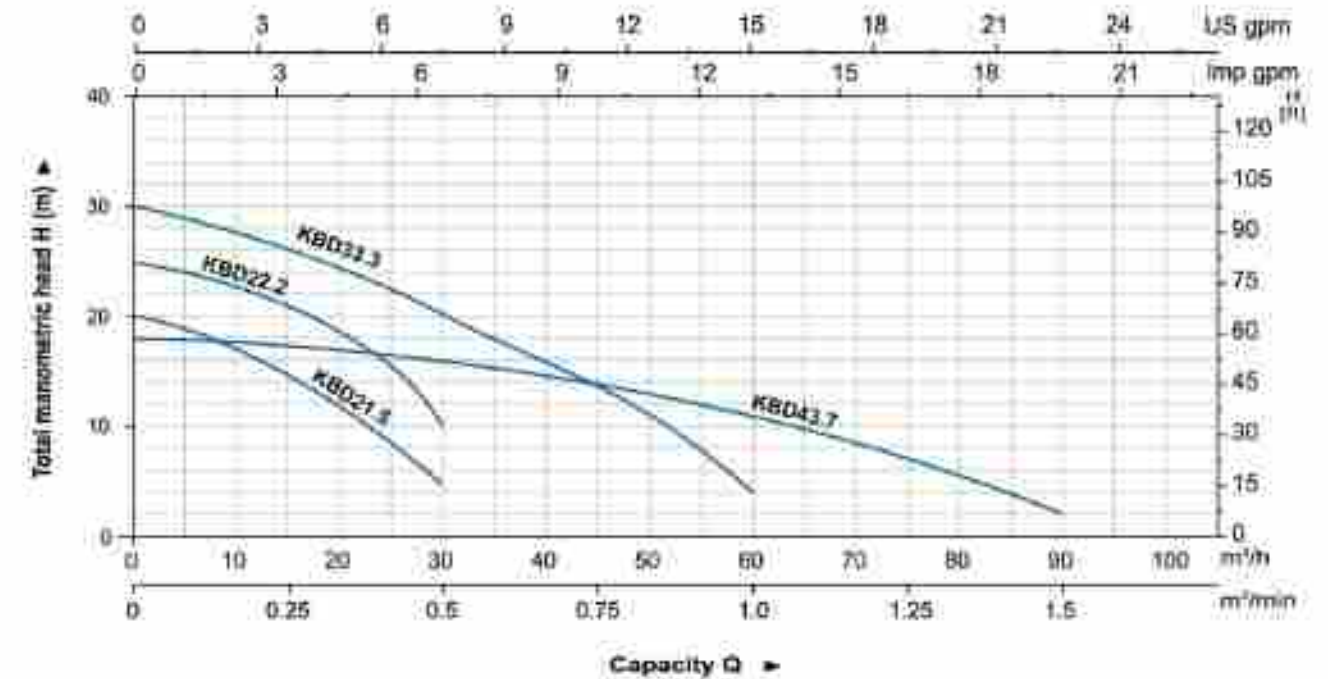
Identification Codes



Technical Data

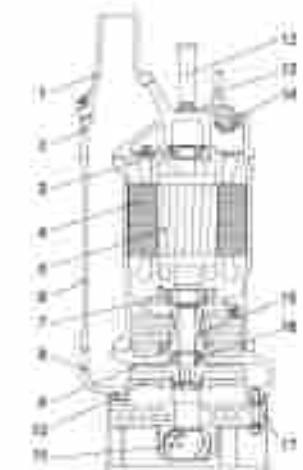
Model	Discharge		Power		Rated Head		Max. Head		Rated Flow		Max. Flow		Rated Current	Max. Solid Dia
	mm	in	kW	HP	ft	m	m ³ /h	USGPM	m ³ /h	USGPM	A	mm		
KBD21.5	50	2	1.5	2	15	20	15	250	30	500	3.5	10		
KBD22.2	50	2	2.2	3	15	25	15	300	30	500	5	12		
KBD33.3	80	3	3.3	4.5	20	30	30	500	40	1000	7.7	18		
KBD43.7	100	4	3.7	5	11	15	10	1000	70	1500	7	18		

Hydraulic Performance Curves



Materials Table

No.	Part	Material	No.	Part	Material
1	Hose coupling	Cast iron	18	Impeller	Cast iron
2	Upper cover	Cast iron	19	Agitator	High chrome alloy
3	Bearings	Ball bearing	20	Nozzle	Rubber & steel
4	Gears		21	Cable	
5	Filter	Sheet AISI304SS	22	Motor protector	
6	Motor body	Cast iron	23	Mechanical seal	30-SS/304SS/316L/316Ti
7	Bearings	Ball bearing	24	Oil seal	30-SS/304SS/316L/316Ti
8	Pump body	Cast iron	25	Strainer	Steel
9	Impeller	High chrome alloy			



Package Information

Model	N.W (kg)	G.W (kg)	L (mm)	W (mm)	H (mm)	Quantity (PCS/20' TEM)
KBD21.5	37	41	1100	200	300	500
KBD22.2	40	44	1100	200	300	500
KBD33.3	64	68	1100	200	300	300
KBD43.7	88	92	1100	200	300	200

Dimension

Model	H	A	A1	B	D	H	W1
KBD21.5	88	230	115	62	218	522	135
KBD22.2	88	230	115	62	218	522	135
KBD33.3	88	230	115	62	218	522	135
KBD43.7	100	230	115	62	218	522	135

