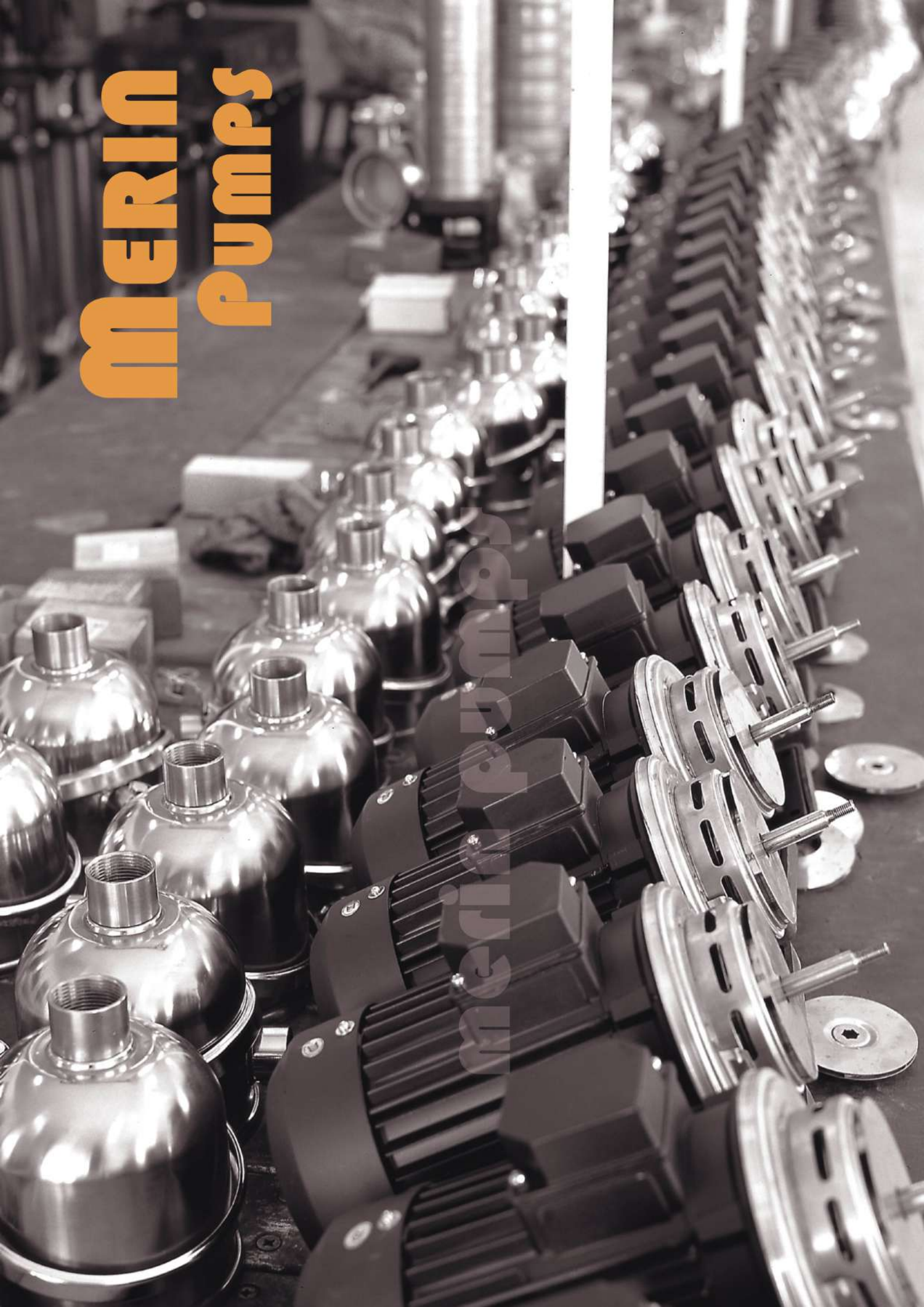


HORIZONTAL MULTISTAGE
STAINLESS STEEL CENTRIFUGAL PUMP



HMS Series

MERIN PUMPS



Horizontal Multistage in Line Stainless steel Centrifugal Pumps

1. Application

HMS & HMSS Horizontal multistage in line stainless steel centrifugal pumps are designed for the following applications.

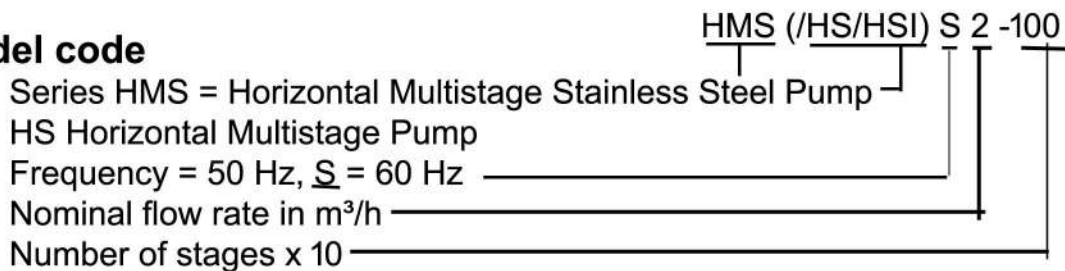
a. Pumped liquids

Thin, non-explosive liquids, not containing solid particles. The liquid not attack the pump material chemically. When pumping liquid with a density or viscosity higher than that of water, motor with correspondingly higher outputs must be used, if required.

b. Application

- Cooling water systems
- Domestic water supply
- Industrial cleaning
- Agriculture
- Pesticide dosing systems
- Environmental protection
- Water treatment
- Boosting & circulation systems

2. Model code



3. Technical Data

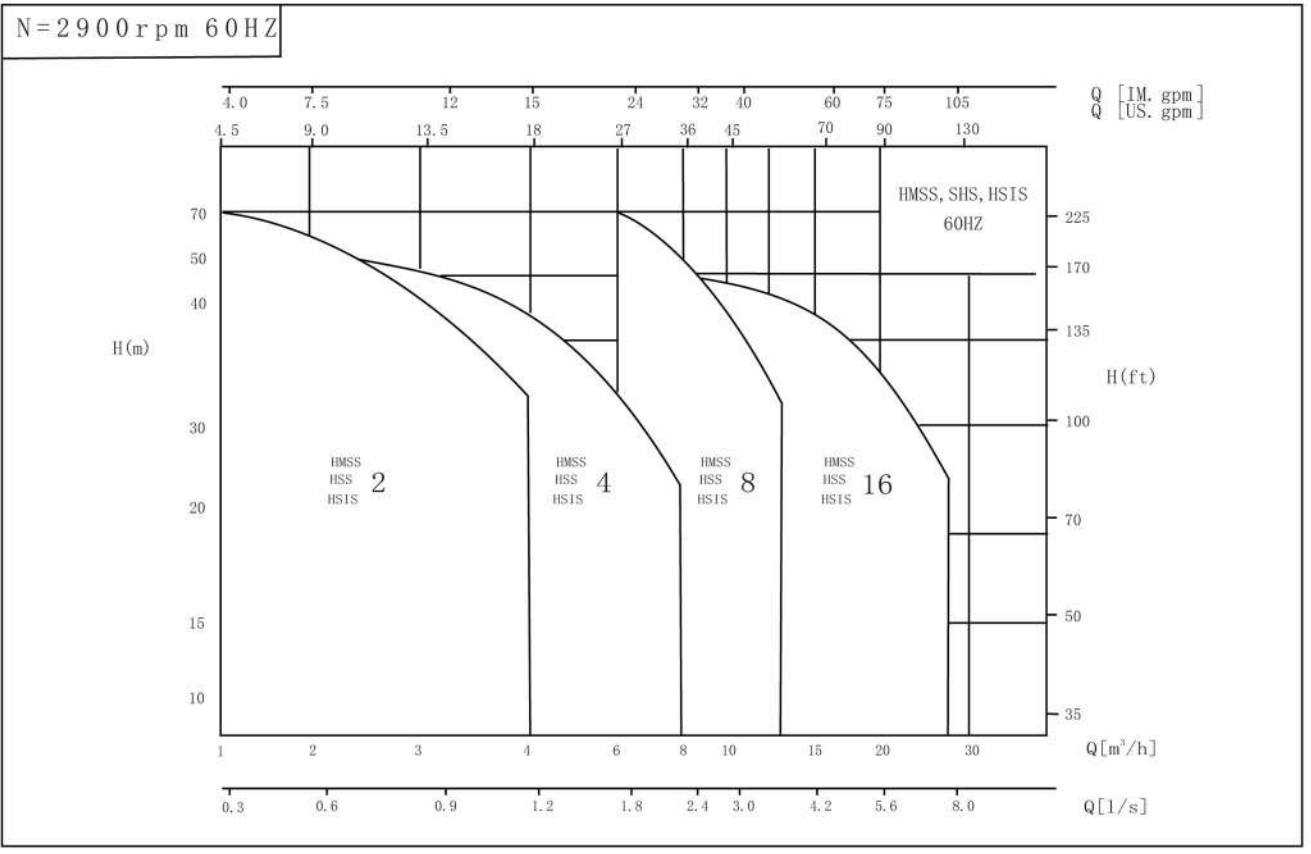
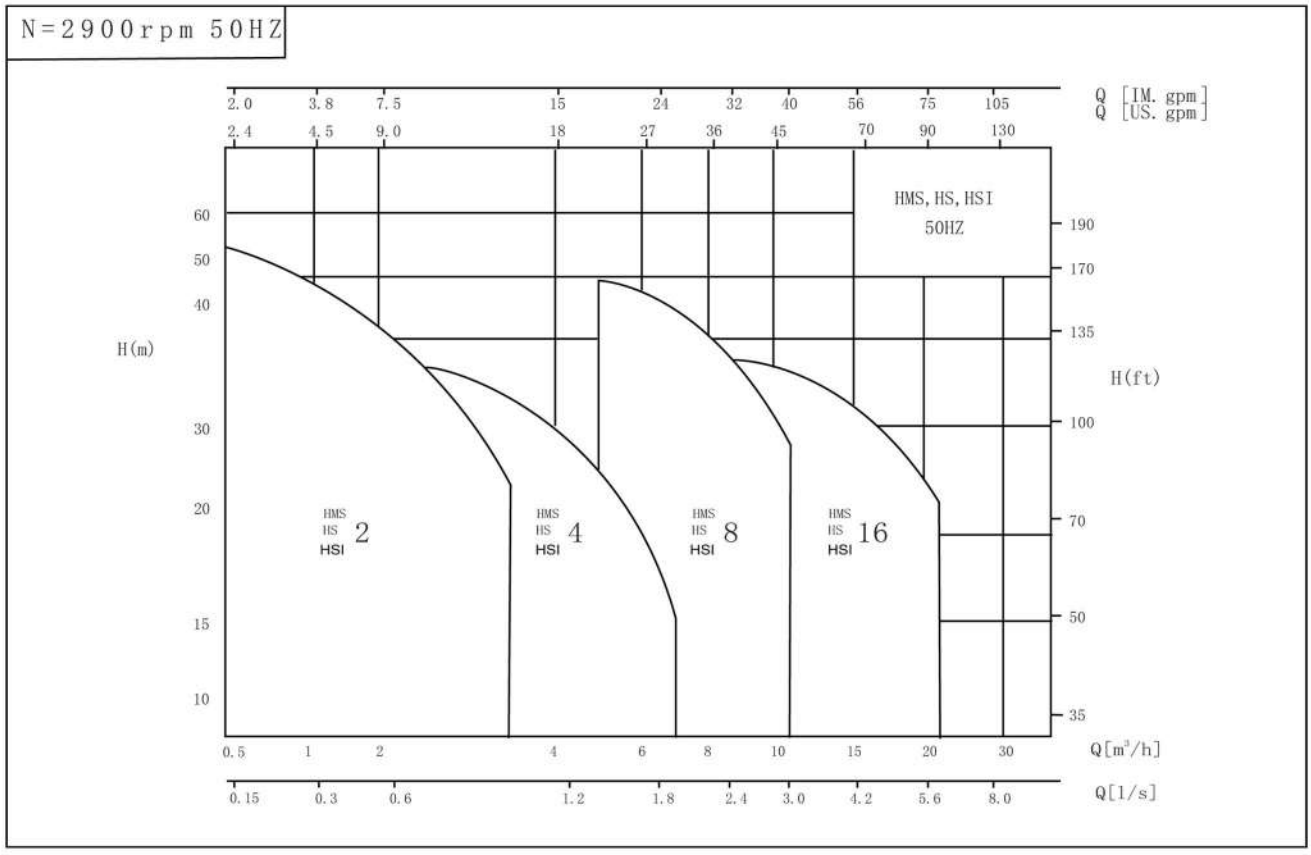
- a. Ambient Temperature
 b. Liquid Temperature
 Standards Design - 15°C to +90 °C
 For Hot water design :- 15 °C to + 120 °C
 c. Min Suction Pressure
 According to NPSH ass 0.5m water head



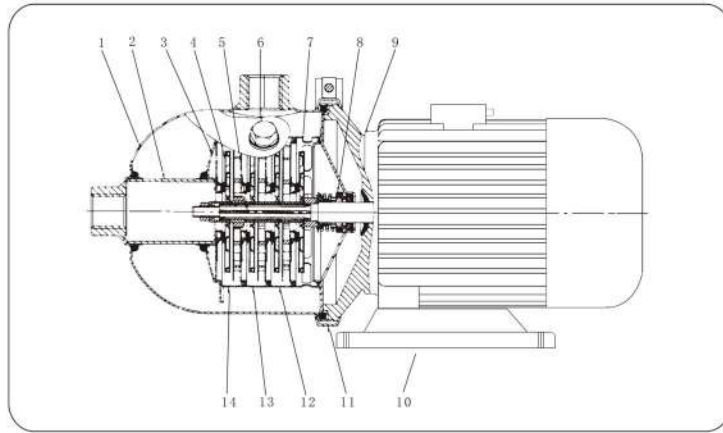
- d. Electric Motor standard be supplied as 50 hz, Single phase 220V – 240V or three phase 380V -415V, aluminium casing, IP55, class F. 60Hz, Single phase 110V or three phase 220V, aluminium casing, IP55, class F.
 NEMA standard motor on request
 e. Pump's material can be supplied in 304 or 316 stainless steel.



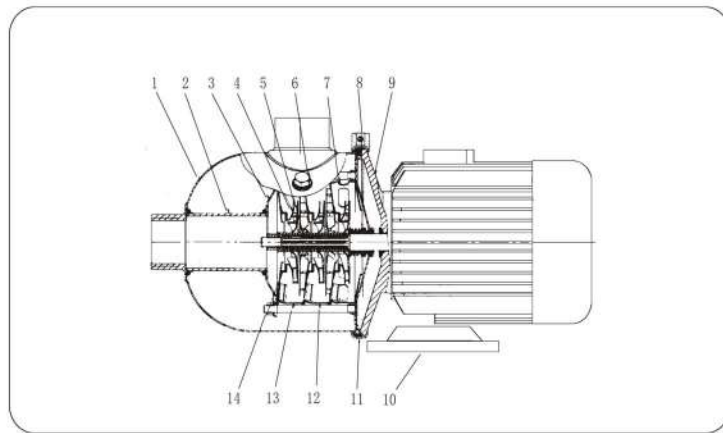
Selection Charts



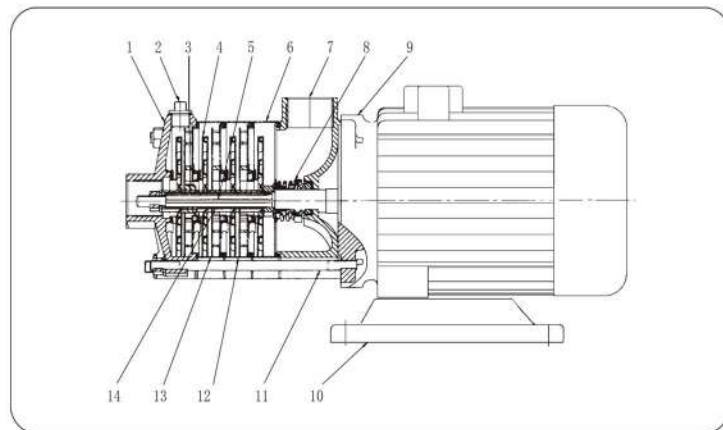
General Arrangement Drawings



HSM 2, 4



HSM 8, 16



HS, HSI 2, 4, 8

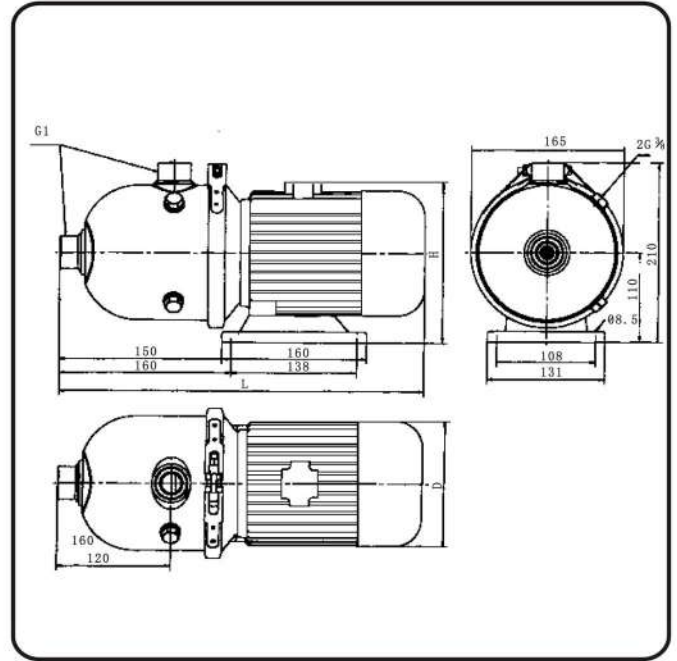
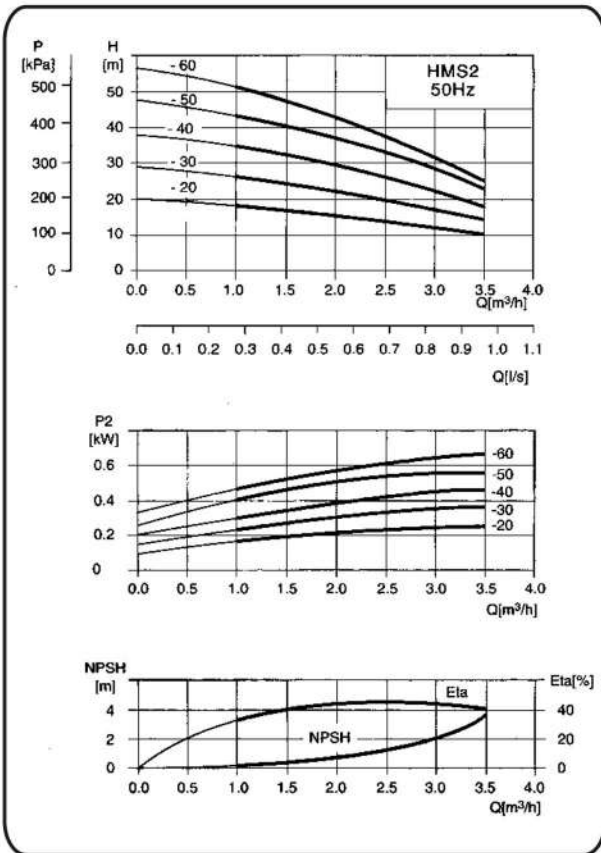
Material List

Part Name	Name	Material	AISI / ASTM
1	Suction and Discharge Head	Stainless Steel	304
2	Connection Pipe	Stainless Steel	304
3	Clamp plate	Stainless Steel	304
4	Impeller	Stainless Steel	304
5	Shaft	Stainless Steel	304
6	Vent	Stainless Steel	304
7	Discharge Diffuser	Stainless Steel	304
8	Mechanical Seal	NBR	
9	Motor end Cover	Aluminum Alloy	
10	Base Frame	Cast Iron	ASTM25B
11	Quick Joint	Stainless Steel	304
12	Diffuser	Stainless Steel	304
13	Support Diffuser	Stainless Steel	304
14	Inducer	Stainless Steel	304

Part Name	Name	Material	AISI / ASTM
HS, HIS. 2, 4, 8			
2	Vent	Stainless Steel	304
3	Bearing	Tungsten Carbide	
4	Impeller	Stainless Steel	304
5	Shaft	Stainless Steel	304
6	Discharge Diffuser	Stainless Steel	304
8	Mechanical Seal	NBR	
9	Motor end Cover	Aluminum Alloy	
10	Base Frame	Cast Iron	ASTM25B
11	Pull Rod	Stainless Steel	304
12	Diffuser	Stainless Steel	304
13	Support Diffuser	Stainless Steel	304
14	Sleeve	Stainless Steel	304
HIS			
1	Suction Head	Stainless Steel	304
7	Discharge Head	Stainless Steel	304
HS			
1	Suction Head	Cast Iron	ASTM25B
7	Discharge Head	Cast Iron	ASTM25B

Performance Curve

Dimensions



Size & Weight

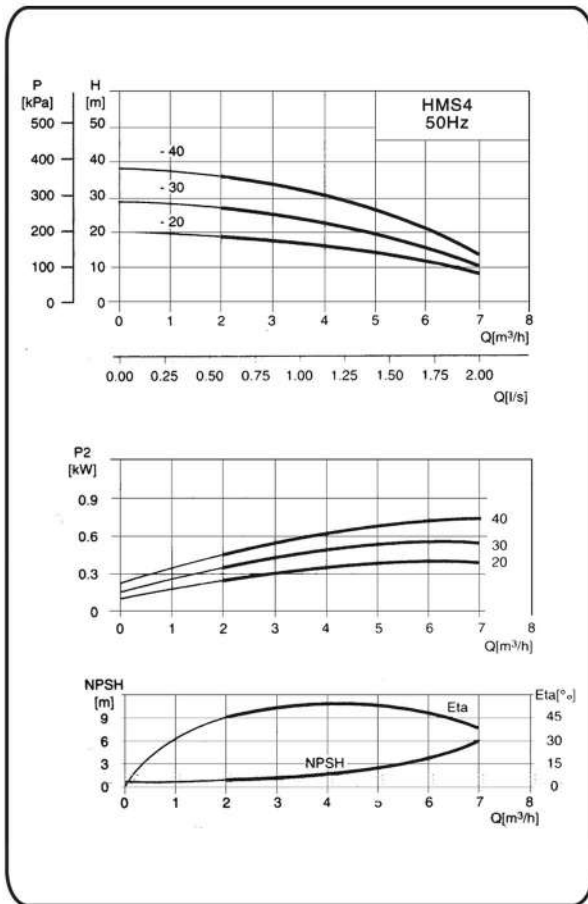
Model	L (mm)	D (mm)	Weight (Kg)
HMS 2- 20	400	145	10
HMS 2- 30	400	145	10
HMS 2- 40	400	145	10
HMS 2- 50	400	145	10
HMS 2- 60	445	170	10

Performance Table

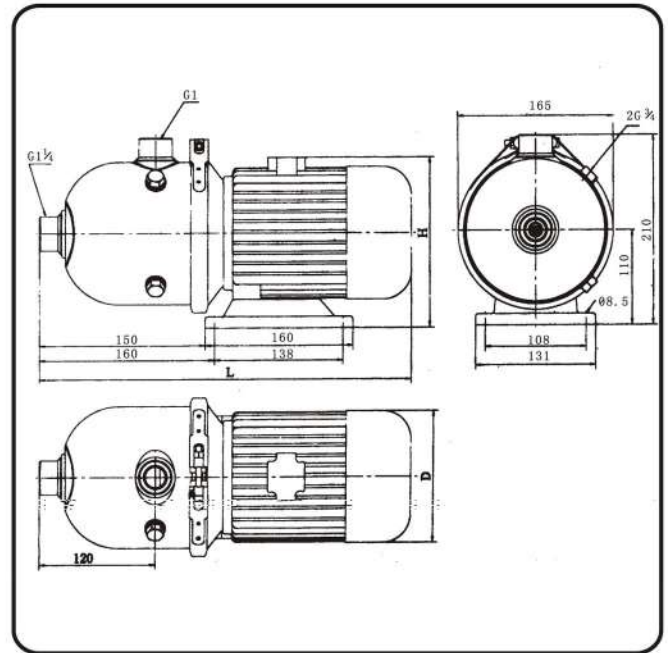
Model	Power (Kw)	Q (m³/h)	0.5	1	1.5	2.0	2.5	3.0	3.5
HMS 2- 20	0.37	H (m)	19	18	16	4	13	11	9
HMS 2- 30	0.55		28	27	24	21	20	17	14
HMS 2- 40	0.55		36	34	32	28	26	23	17
HMS 2- 50	0.55		46	43	40	35	33	28	22
HMS 2- 60	0.75		54	50	48	42	38	33	25

HMS 4

Performance Curve



Dimensions



Size & Weight

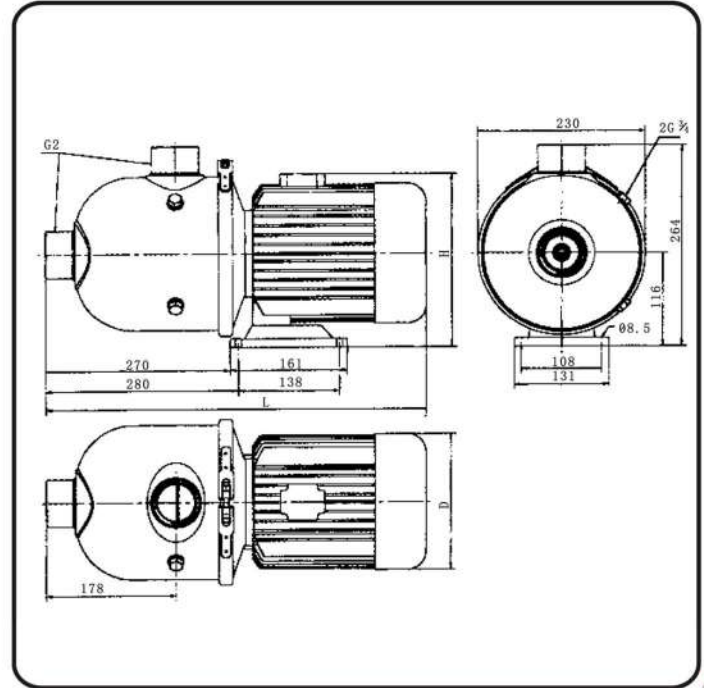
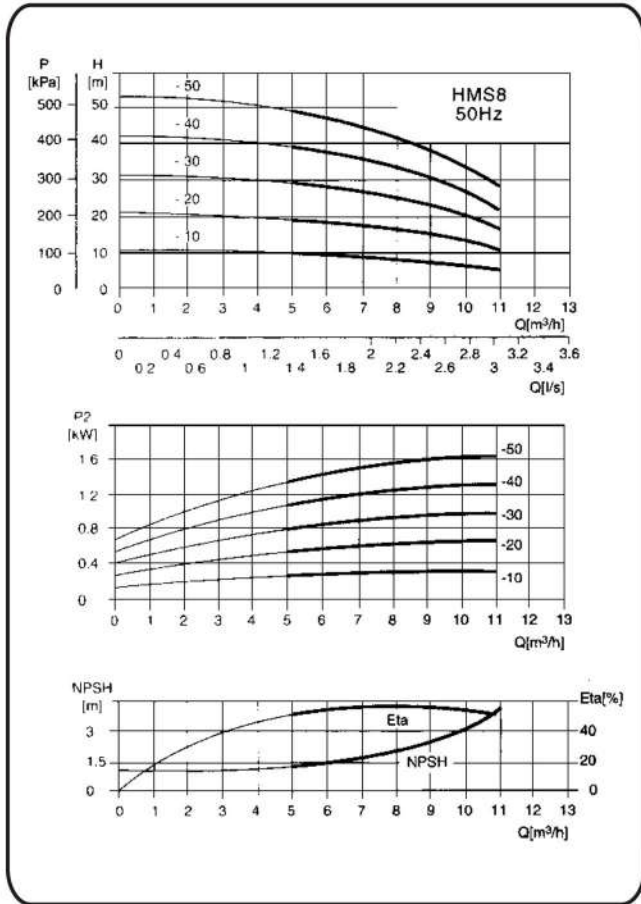
Model	L (mm)	D (mm)	Weight (Kg)
HMS 4- 20	400	145	10
HMS 4- 30	445	170	10
HMS 4- 40	445	170	10

Performance Table

Model	Power (Kw)	Q (m³/h)	1	2	3	4	5	6	7
HMS 4- 20	0.55	H (m)	19	18	16	15	13	10	7
HMS 4- 30	0.75		28	27	24	22	19	15	10
HMS 4- 40	0.75		38	36	32	32	26	20	14

Performance Curve

Dimensions



Size & Weight

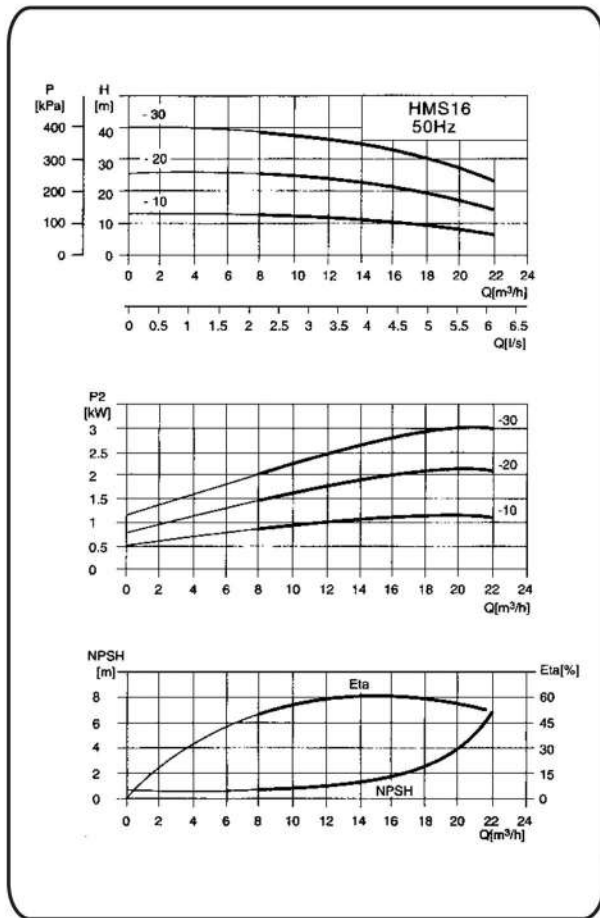
Model	L (mm)	H(mm)	D (mm)	Weight (Kg)
HMS 8- 20	540	220	170	20
HMS 8- 30	540	220	170	20
HMS 8- 40	550	220	170	25
HMS 8- 50	560	230	180	25
HMS 8- 60	570	230	180	30

Performance Table

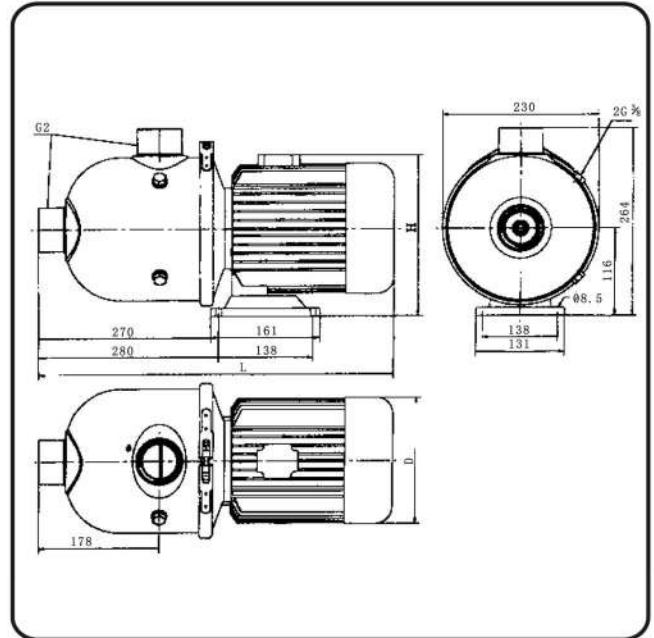
Model	Power (Kw)	Q (m³/h)	5	6	7	8	9	10	11
HMS 8- 20	0.75	H (m)	9.5	9.3	9	8.5	7.5	6.5	5.5
HMS 8- 30	0.75		19	18.5	18	17	15	13	11
HMS 8- 40	1.1		29	28	27	25.5	22.5	20	17.5
HMS 8- 50	1.5		39	38	36	34	30	26.5	22.5
HMS 8- 60	2.2		49	47	45	42.5	38	33.5	28

HMS 16

Performance Curve



Dimensions



Size & Weight

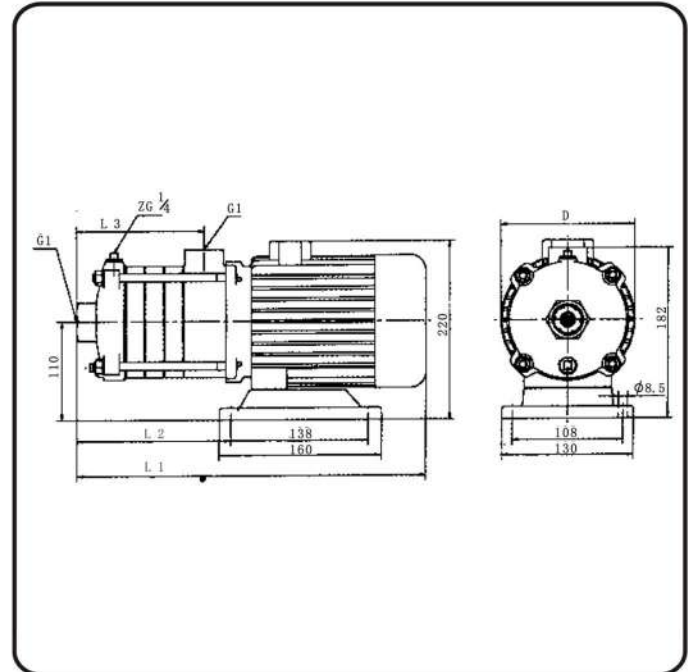
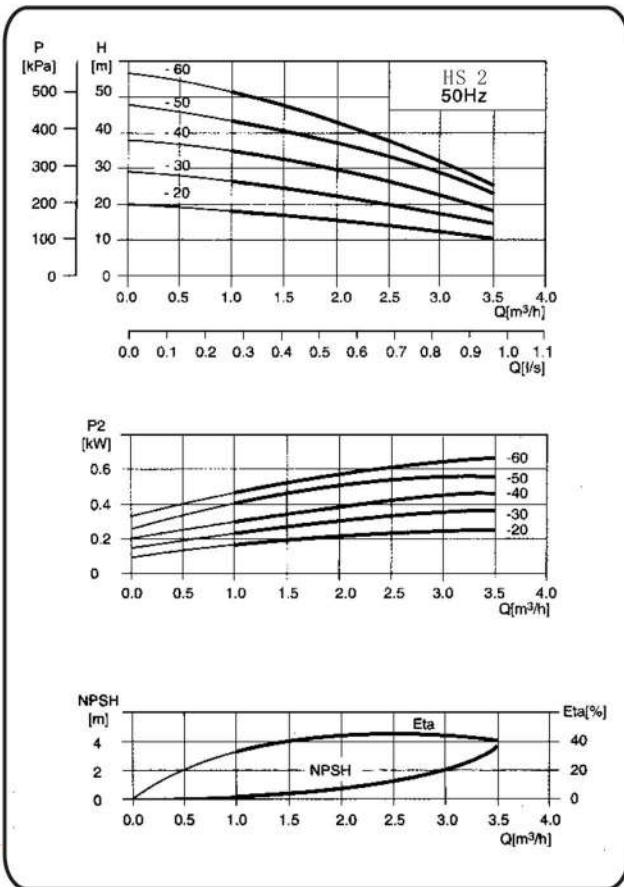
Model	L (mm)	H(mm)	D (mm)	Weight (Kg)
HMS 16 -10	560	220	170	20
HMS 16 -20	570	230	180	25
HMS 16 -30	590	230	180	30

Performance Table

Model	Power (Kw)	Q (m³/h)	8	10	12	14	16	18	20	22
HMS 16 -10	1.1	H (m)	12.5	12	11.5	10.5	10	9	7.5	6.5
HMS 16 -20	2.2		25.5	24	23	22	21	19	17	14.5
HMS 16 -30	3		38.5	37	36	34	32	30	27	23

Performance Curve

Dimensions



Size & Weight

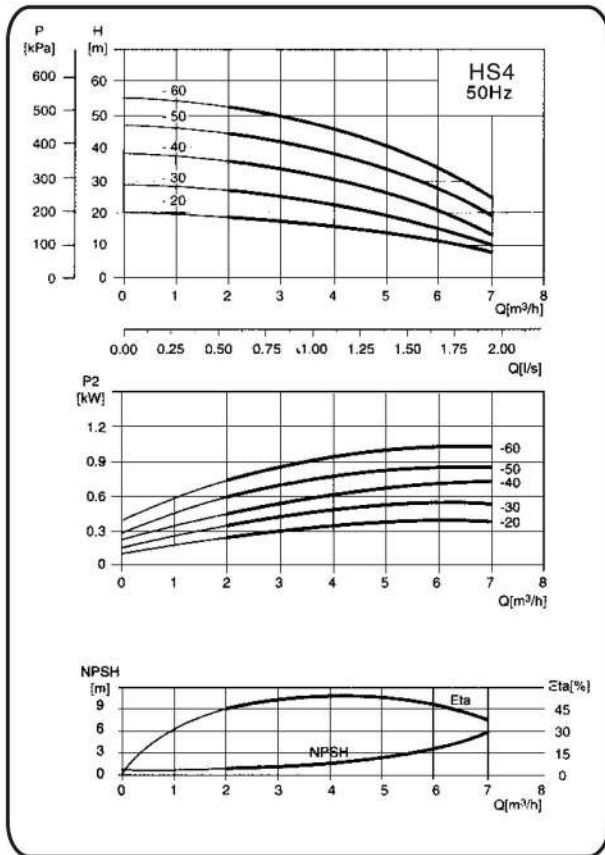
Model	L1 (mm)	L2 (mm)	L3 (mm)	D (mm)	Weight (Kg)
HS 2-20	305	87	87	145	15
HS 2-30	323	105	102	145	15
HS 2-40	341	123	120	145	15
HS 2-50	359	141	138	145	15
HS 2-60	422	159	156	170	17

Performance Table

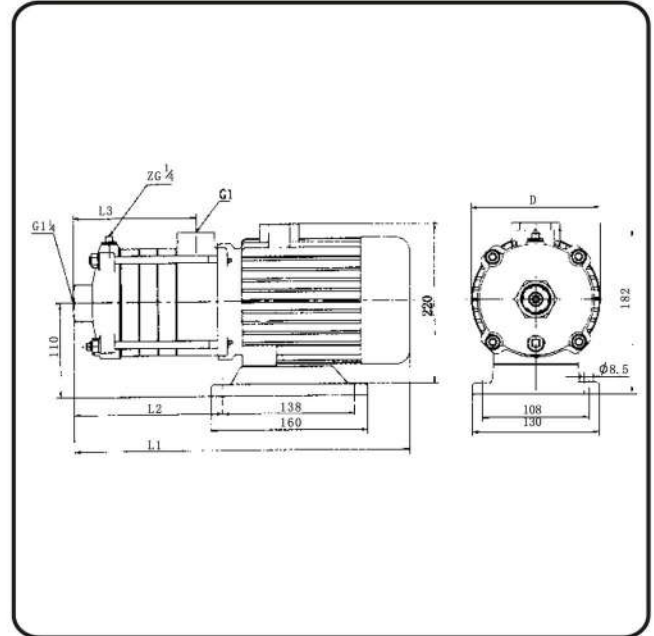
Model	Power (Kw)	Q (m³/h)	0.5	1.0	1.5	2.0	2.5	3.0	3.5
HS 2-20	0.37	H (m)	19	18	16	14	13	11	9
HS 2-30	0.55		28	27	24	21	20	17	14
HS 2-40	0.55		36	34	32	28	26	23	17
HS 2-50	0.55		46	43	40	35	33	28	22
HS 2-60	0.75		54	50	48	42	38	33	25

HS, HSI 4

Performance Curve



Dimensions



Size & Weight

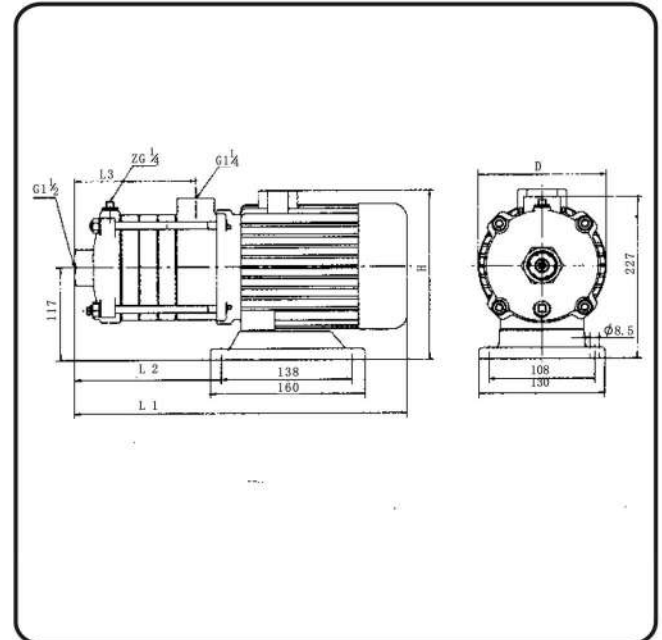
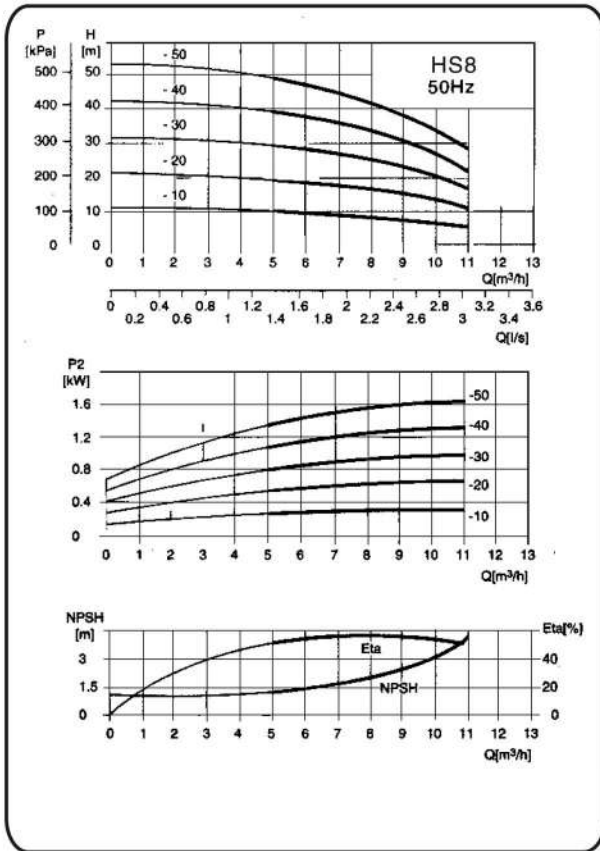
Model	L1 (mm)	L2 (mm)	L3 (mm)	D (mm)	Weight (Kg)
HS 4-20	323	96	102	145	15
HS 4-30	395	132	129	145	17
HS 4-40	422	156	156	170	17
HS 4-50	469	186	183	170	20
HS 4-60	496	213	210	170	20

Performance Table

Model	Power (Kw)	Q (m³/h)	1	2	3	4	5	6	7
HS 4-20	0.55	H (m)	19	18	16	15	13	10	7
HS 4-30	0.55		28	27	24	22	19	15	10
HS 4-40	0.75		38	36	32	30	26	20	14
HS 4-50	1.10		46	44	41	38	32	26	20
HS 4-60	1.10		55	53	50	45	37	31	26

Performance Curve

Dimensions



Size & Weight

Model	L1 (mm)	L2 (mm)	L3 (mm)	H (mm)	D (mm)	Weight (Kg)
HS 8-10	365	98	75	250	170	20
HS 8-20	395	128	105	250	170	20
HS 8-30	425	158	135	2850	170	25
HS 8-40	490	188	165	270	180	28
HS 8-50	520	218	195	270	180	30

Performance Table

Model	Power (Kw)	Q (m³/h)	5	6	7	8	9	10	11
HS 8-10	0.75	H (m)	9.5	9.3	9	8.8	7.8	6.5	5.5
HS 8-20	0.75		19	18.5	18	17	15	13	11
HS 8-30	1.1		29	28	27	25.5	22.5	20	17.5
HS 8-40	1.5		39	38	36	34	30	26.5	22.5
HS 8-50	2.2		49	47	45	42.5	38	33.5	28

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