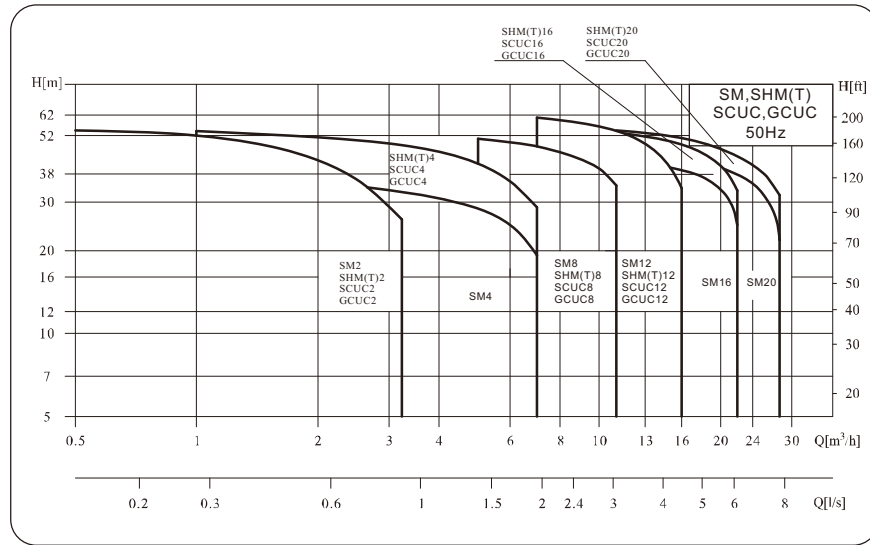


SM,SHM/SHMT,SCUC,GCUC

Performance Range



Specification

Key parameter	SM2	SM4	SM8	SM12	SM16	SM20
Rated Flow [m³/h]	2	4	8	12	16	20
Rated Flow [l/s]	0.56	1.1	2.2	3.3	4.4	5.6
Flow Range [m³/h]	0.6~3.2	1~7	5~11	7~16	8~22	10~28
Flow Range [l/s]	0.17~0.89	0.28~1.9	1.39~3	1.9~4.4	2.2~6.1	2.8~7.8
Max. Pressure [bar]	5.3	3.7	5	6	3.9	3.9
Motor Capacity [kW]	0.37~0.75	0.37~0.75	0.75~2.2	1.2~3	2.2~3	2.2~4
Temp. Range [°C]	-15~105					
Max. Efficiency [%]	46	58	62	63	66	69
Thread joint						
water outlet	Rp1	Rp1	Rp2	Rp2	Rp2	Rp2
Water inlet	Rp1	Rp1 $\frac{1}{4}$	Rp2	Rp2	Rp2	Rp2

Key parameter	SHM(T)2 SCUC2,GCUC2	SHM(T)4 SCUC4,GCUC4	SHM(T)8 SCUC8,GCUC8	SHM(T)12 SCUC12,GCUC12	SHM(T)16 SCUC16,GCUC16	SHM(T)20 SCUC20,GCUC20
Rated Flow [m³/h]	2	4	8	12	16	20
Rated Flow [l/s]	0.56	1.1	2.2	3.3	4.4	5.6
Flow Range [m³/h]	0.6~3.2	1~7	5~11	7~16	8~22	10~28
Flow Range [l/s]	0.17~0.89	0.28~1.9	1.39~3	1.9~4.4	2.2~6.1	2.8~7.8
Max. Pressure [bar]	5.3	5.6	5	6	5.3	5.3
Motor Capacity [kW]	0.37~0.75	0.37~1.1	0.75~2.2	1.2~3	2.2~4	2.2~4.4
Temp. Range [°C]	-15~105					
Max. Efficiency [%]	46	58	62	63	66	69
Thread joint						
water outlet	Rp1	Rp1	Rp1 $\frac{1}{4}$	Rp1 $\frac{1}{2}$	Rp2	Rp2
Water inlet	Rp1	Rp1 $\frac{1}{4}$	Rp1 $\frac{1}{2}$	Rp1 $\frac{1}{2}$	Rp2	Rp2

Model Description

SM2/4/8/12/16/20

SM 4 - 40
 Series/number of impeller × 10
 Rated Flow (m³/h)
 horizontal multistage centrifugal pump
 (Wet parts component made of SS 304 -316L)

SHM(T),SCUC,GCUC 2/4/8/12/16/20

SHM
SCUC, GCUC T 8 - 30
 Series/number of impeller × 10
 Rated Flow (m³/h)
 Water inlet/outlet cast iron seat
 (stainless steel not indicated)
 horizontal(sectional type)
 multistage centrifugal pump

Pumped liquids

- Thin, clean, non-explosive liquids, not containing solid particles or fibers.
- Mineral water, soft water, pure water, edible vegetable oil and other light chemical mediums
- When pumping liquids with a density and/or viscosity higher than those of water, oversized motor must be used, if required.
- Whether a pump is suitable for a particular liquid depends on a number of factors of which then most important are the chloride content, pH value, temperature and content of chemicals and oils.

Operation conditions

- Liquid temperature:
normal temperature type: -15°C~+70°C
hot water type: -15°C~+105°C
- Ambient temperature: maximum +40°C
- Operation pressure: maximum 10 bar
- Maximum suction pressure is limited by maximum operating pressure

Applications

- Air-conditioning systems
- Cooling system
- Washing and cleaning systems,
- Water treatment
- Aquaculture
- Fertilizing/metering system
- Environmental application
- Other special applications

Motor

- Fitted with a totally enclosed, fan-cooled, 2-pole motor
- Enclosure class: IP55
- Insulation class: F
- Supply voltage: 50Hz: 1x200-240V
3x220-240/380-415V
- 0.37 to 2.4kW are fitted Single-phase

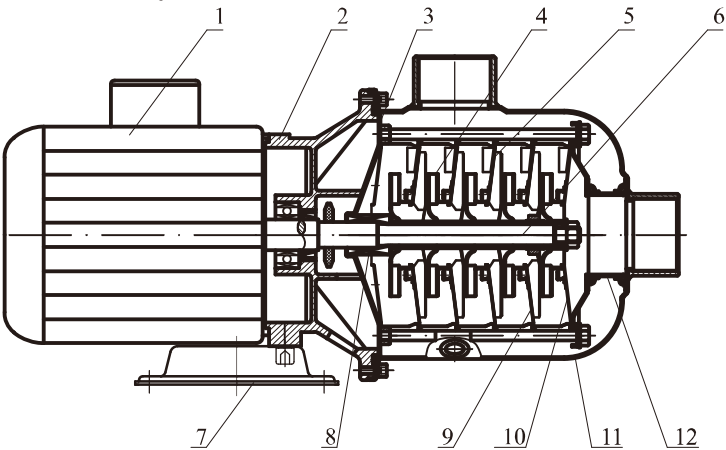
Performance curve

- 1. All curves are based on 50hz, rated speed of 2900rpm or 2950 rpm
- 2. Tolerances to ISO9006, Annex A
- 3. Measurements have been made with airless water at a temperature of 20 °C, kinematic viscosity of 1mm2/s
- 4. Due to the risk of overheating and overload, the operation of pump shall refer to the performance region indicated by the thickened curve

Pump

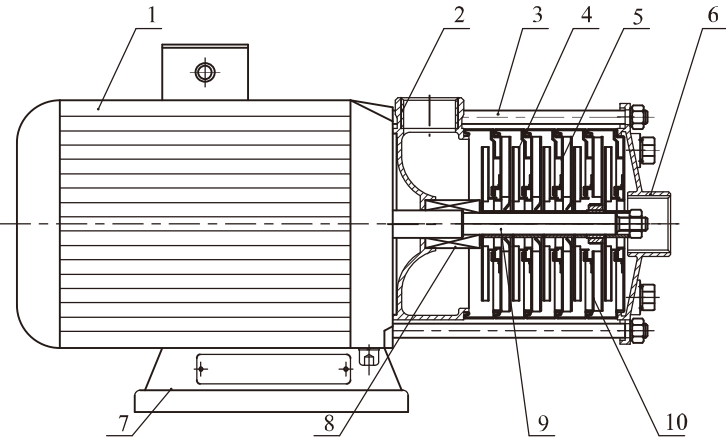
- 1. SM,SHM(T),SCUC,GCUC pumps are non-self-priming, horizontal, multistage centrifugal pumps, with extended motor shaft.
- 2. The compact structure renders small size of pump, axial inlet and radial outlet.

Cross-section drawing SM



Material							
No	Description	Material	AISI/ASTM	No	Description	Material	AISI/ASTM
1	Motor	Assembling unit		7	Base plate	Steel	AISI1015
2	Motor front housing	Aluminium alloy		8	Mechanical seal	Assembling unit	
3	Seal seat	Stainless	AISI304	9	Dupport diffuser	Stainless steel	AISI304
4	Impeller	Stainless	AISI304	10	Inlet guide vane	Stainless	AISI304
5	Diffuser	Stainless	AISI304	11	Casing	Stainless	AISI304
6	Shaft	Stainless	AISI304	12	Inlet pipeline	Stainless	AISI304

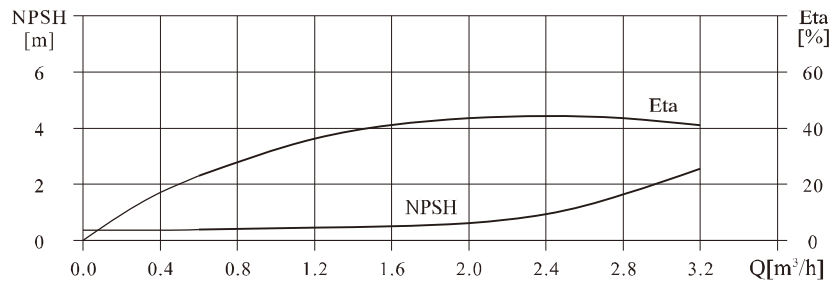
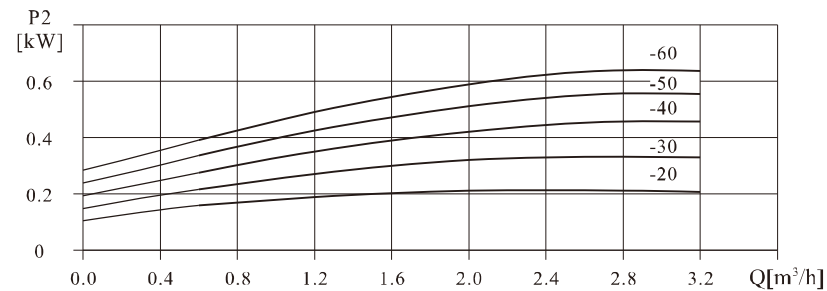
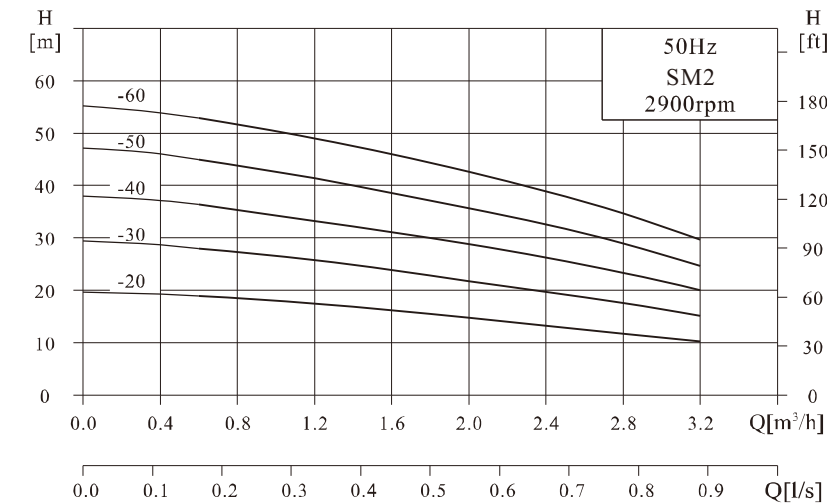
Cross-section drawing SHM(T),SCUC,GCUC



Material

NO	Description	Material	AISI/ASTM	NO	Description	Material	AISI/ASTM
1	Motor	Assembling unit		10	Dupport diffuser	Stainless	AISI304
3	Tie rod	Stainless	AISI304	SHM,SCUC,GCUC			
4	Impeller	Stainless	AISI304	2	Outlet seat	Stainless	AISI304
5	Diffuser	Stainless	AISI304	6	Inlet seat	Stainless	AISI304
7	Base plate	Steel	AISI11015	SHMT			
8	Mechanical seal	Assembling unit		2	Outlet seat	Cast Iron	ASTM25B
9	Shaft	Stainless	AISI304	6	Inlet seat	Cast Iron	ASTM25B

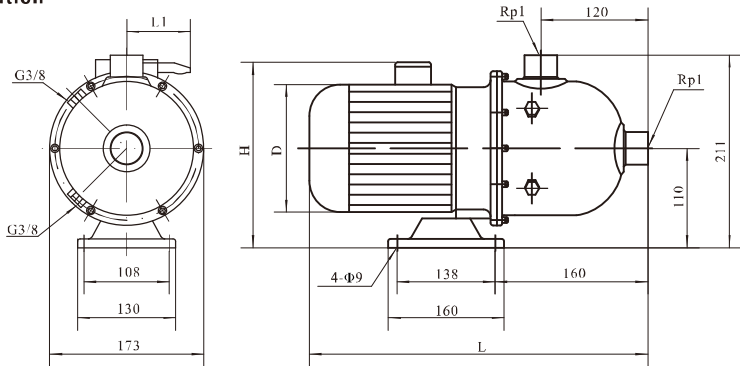
Performance Curve



Performance Curves

Model	Motor Capacity		Q (m³/h)	0.6	1.2	1.6	2	2.4	2.8	3.2
	(kW)	(hp)								
SM2-20	0.37	0.5	H (m)	18.6	17.6	16	15	13.5	10.6	9.3
SM2-30	0.37	0.5		27.7	26	24	22	19.5	16.5	13.5
SM2-40	0.55	0.75		35.7	34	32	29	25.5	23.5	19
SM2-50	0.55	0.75		45	42	39	36	33	28	24.5
SM2-60	0.75	1		53	50	47.5	43.5	39	34	29.5

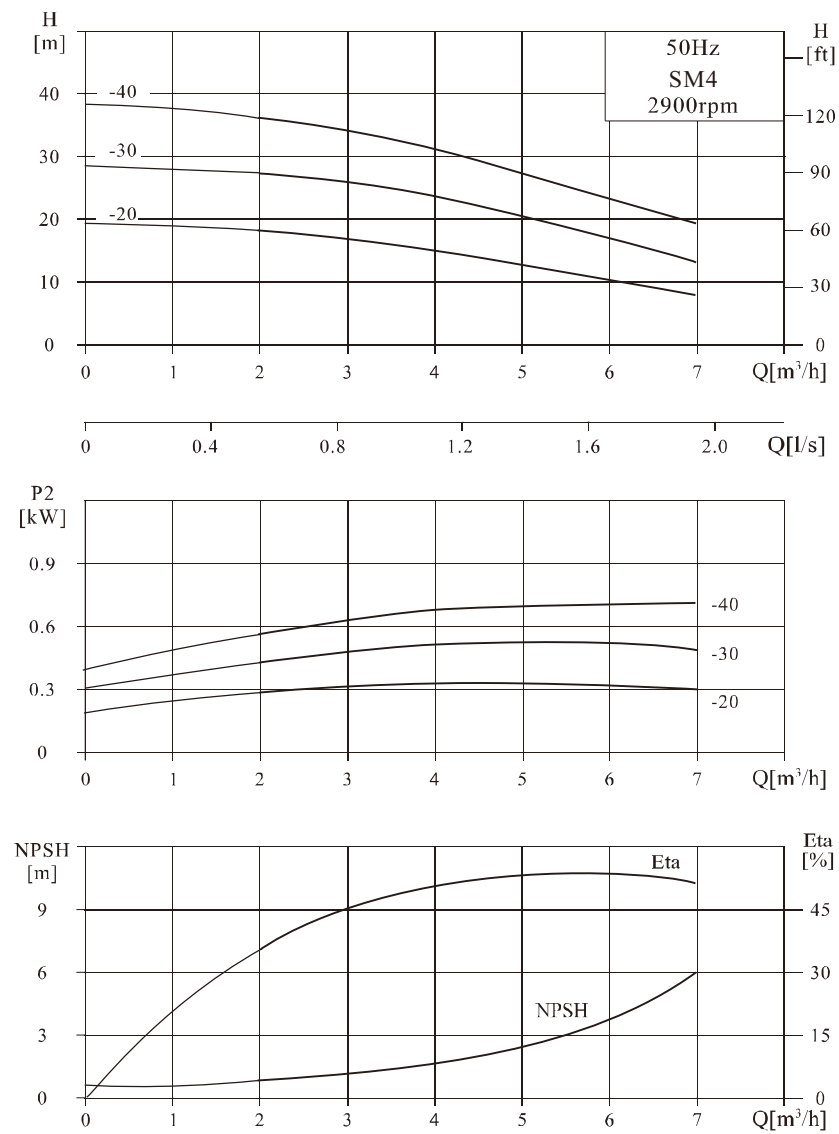
Installation



Size and Weight

Motor	Model	Specification (mm)				Weight (kg)
		L	D	H	L1	
Three phase /Single phase	SM2-20	400	145	215/230	/96	13
	SM2-30	400	145	215/230	/96	13
	SM2-40	400	145	215/230	/96	13
	SM2-50	400	145	215/230	/96	13
	SM2-60	445	170	225/245	/100	14

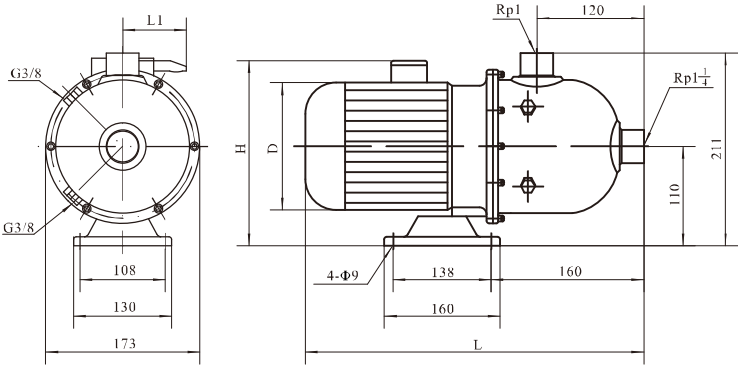
Performance Curve



Performance Curves

Model	Motor Capacity		Q (m³/h)	1	2	3	4	5	6	7
	(kW)	(hp)								
SM4-20	0.37	0.55	H (m)	19	18	17	15	12.5	10	7.5
SM4-30	0.55	0.75		28	27	26	23.5	20.5	17	13
SM4-40	0.75	1		37.5	36	34	31	27	23	19

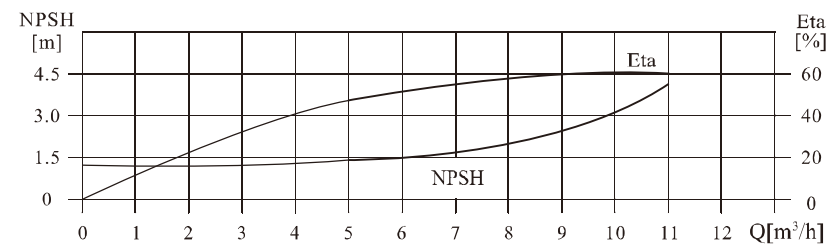
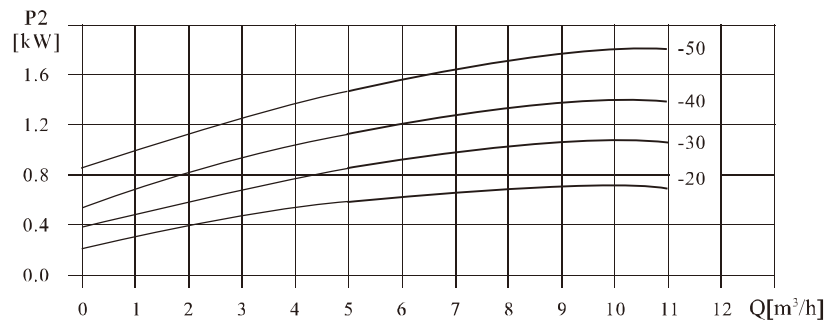
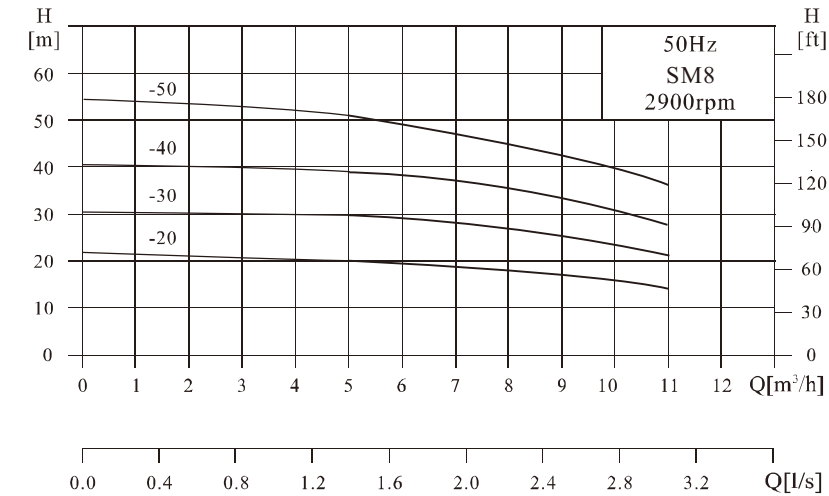
Installation



Size and Weight

Motor	Model	Specification (mm)				Weight (kg)
		L	D	H	L1	
Three phase /Single phase	SM4-20	400	145	215/230	/96	12
	SM4-30	400	145	215/230	/96	13
	SM4-40	445	170	225/245	/100	15

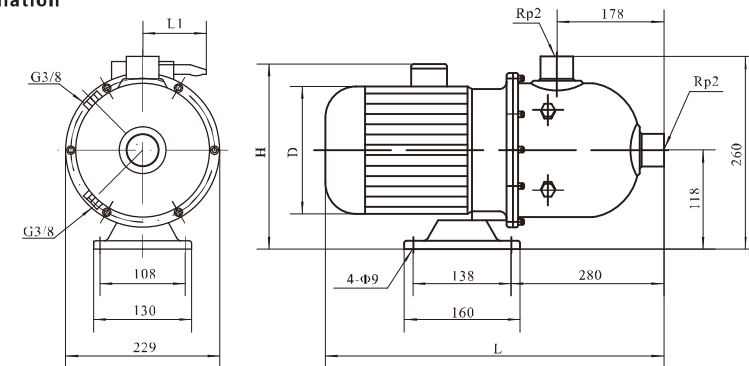
Performance Curve



Performance Curves

Model	Motor Capacity		Q (m³/h)	5	6	7	8	9	10	11
	(kW)	(hp)								
SM8-20	0.75	1	H (m)	19.5	19	18.5	17.5	16.5	15	13.5
SM8-30	1.1	1.5		29	28.5	27.5	26.5	24	22	20
SM8-40	1.5	2		39	38	36.5	35	32	29.5	26
SM8-50	2.2	3		50.5	49	46.5	44	41	38	33

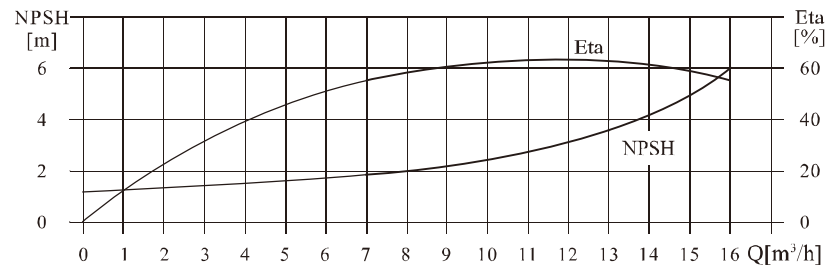
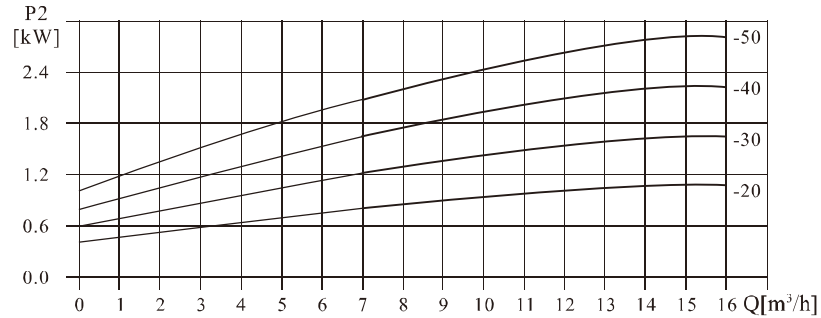
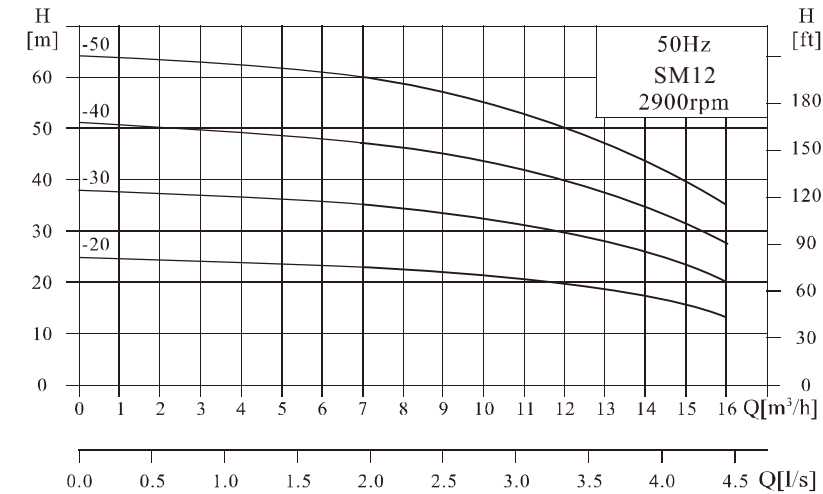
Installation



Size and Weight

Motor	Model	Specification (mm)				Weight (kg)
		L	D	H	L1	
Three phase /Single phase	SM8-20	560	170	230/265	/100	20
	SM8-30	560	170	230/265	/100	23
	SM8-40	580	180	240/270	/100	25
	SM8-50	580	180	240/270	/100	29

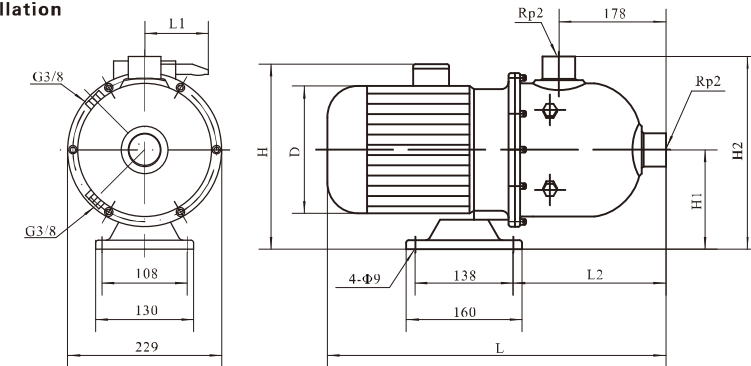
Performance Curve



Performance Curves

Model	Motor Capacity		Q (m³/h)	7	9	11	12	13	15	16
	(kW)	(hp)								
SM12-20	1.2	1.6	H (m)	23	22	20.5	19.5	18.5	15.5	13
SM12-30	1.8	2.4		35	33.5	31	29.5	28	23.5	20
SM12-40	2.4	3.3		47	45	41.5	39.5	37.5	31.5	27.5
SM12-50	3	4		60	56.5	52.5	50	47	40	35

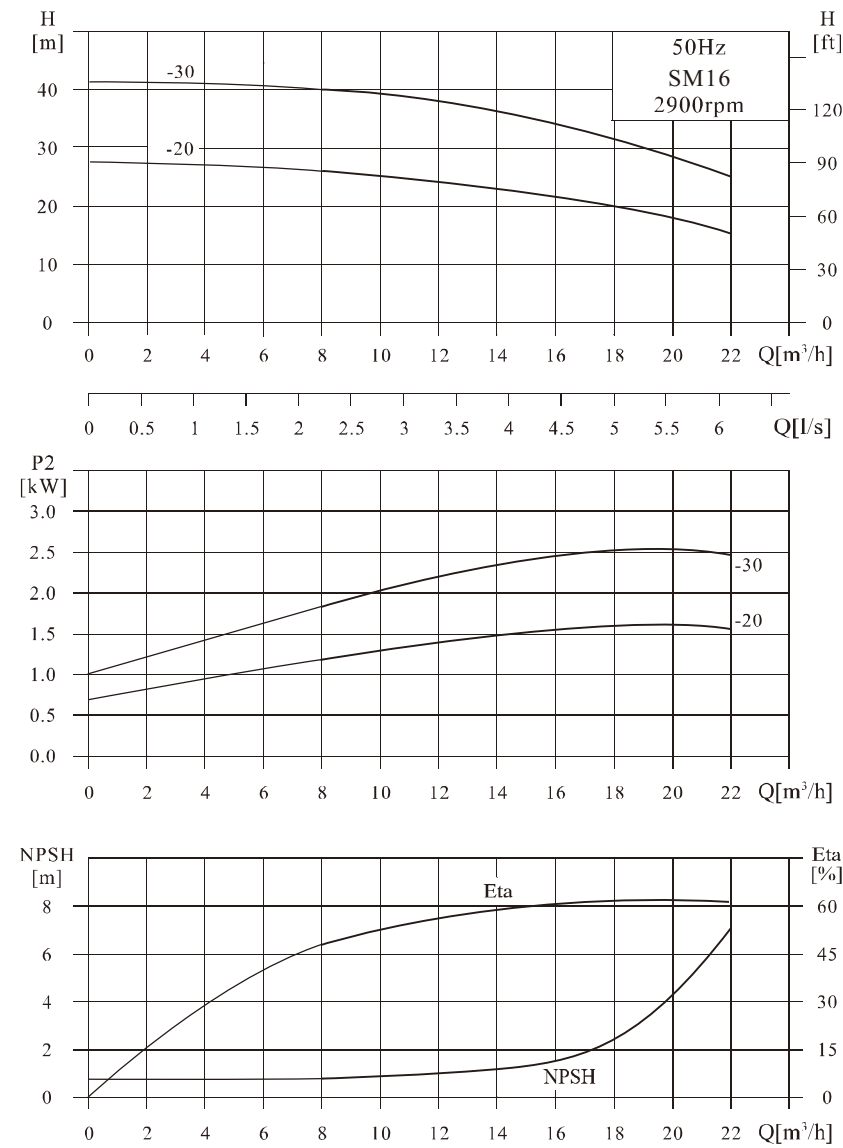
Installation



Size and Weight

Motor	Model	Specification (mm)							Weight (kg)
		L	L1	L2	H	H1	H2	D	
Three phase /Single phase	SM12-20	560	/100	280	230/265	118	260	170	21
	SM12-30	580	/100	280	240/270	118	260	170	25
	SM12-40	580	/100	280	240/270	118	260	180	28
	SM12-50	610		270	270/	126	268	180	33

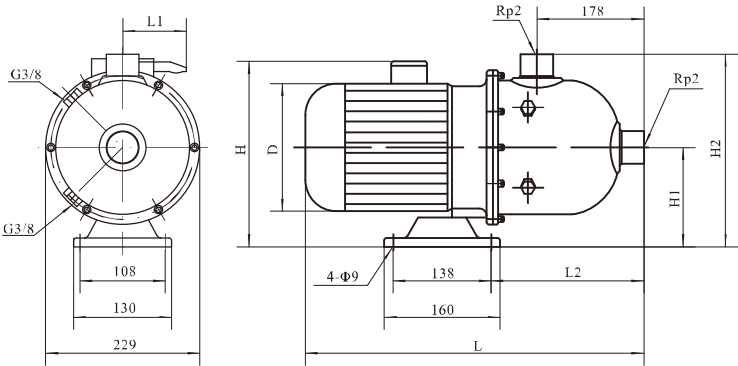
Performance Curve



Performance Curves

Model	Motor Capacity		Q (m³/h)	8	10	12	14	16	18	20	22
	(kW)	(hp)									
SM16-20	2.2	3	H (m)	26	25	24	23	21.6	20	18	15.5
SM16-30	3	4		40	39	38	36	34	31.5	29	25

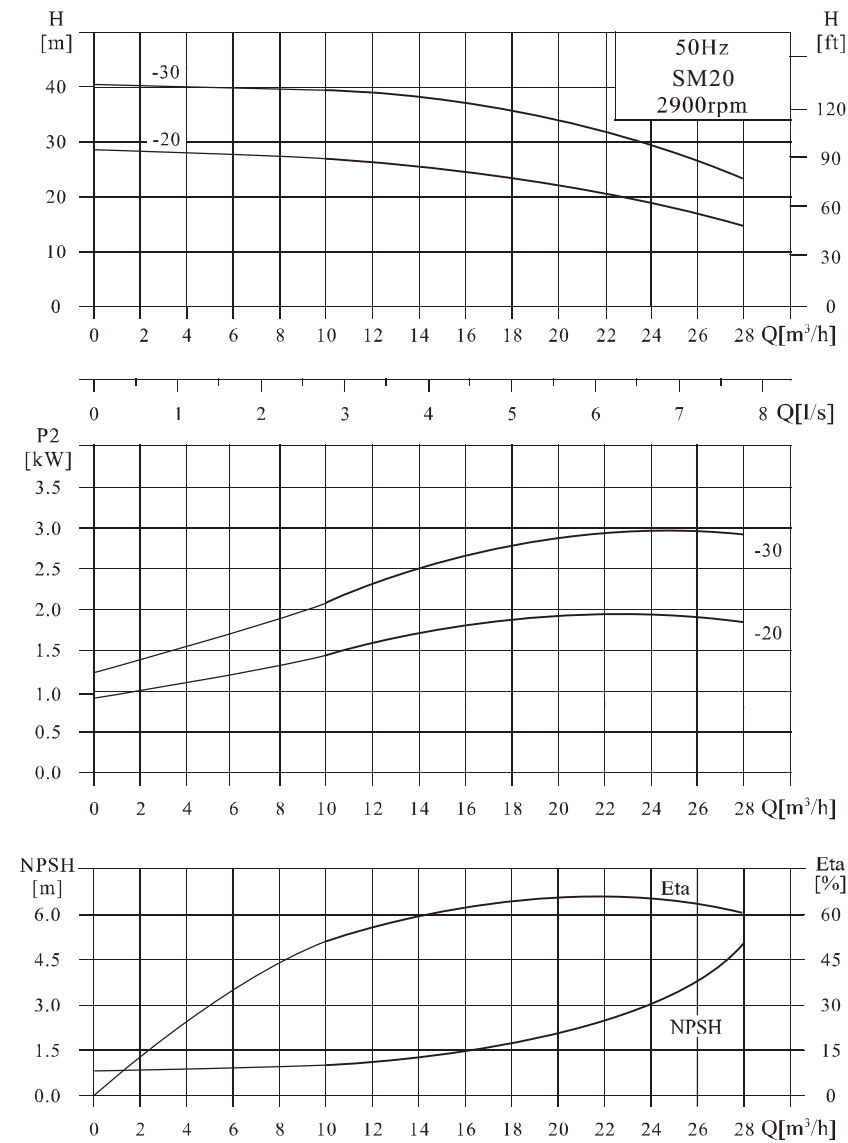
Installation



Size and Weight

Motor	Model	Specification (mm)							Weight (kg)
		L	L1	L2	H	H1	H2	D	
Three phase /Single phase	SM16-20	580	/100	280	240/270	118	260	180	26
	SM16-30	610		270	270/	126	268	195	33

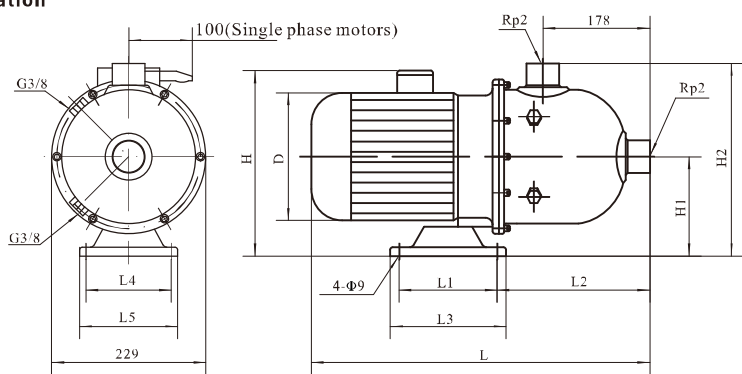
Performance Curve



Performance Curves

Model	Motor Capacity		Q (m³/h)	10	14	16	18	20	22	24	28
	(kW)	(hp)									
SM20-20	2.2	3	H (m)	27	25.5	25	23.5	22	20.5	18.5	14.5
SM20-30	4	5.5		39.5	38	37.5	35.5	34	31	29	23

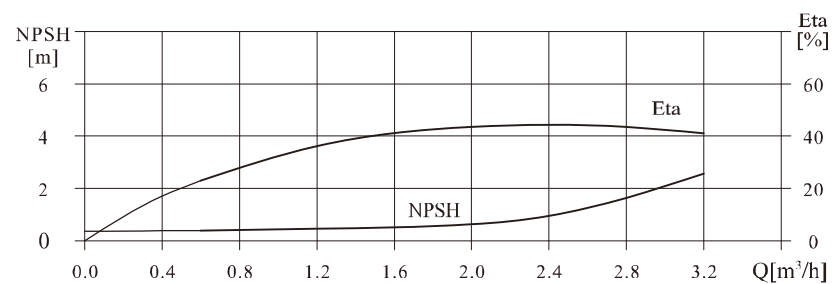
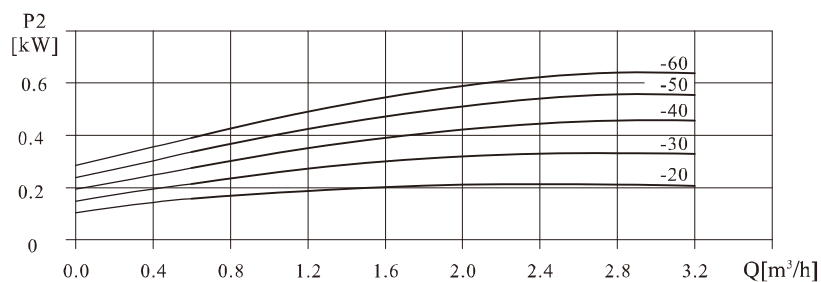
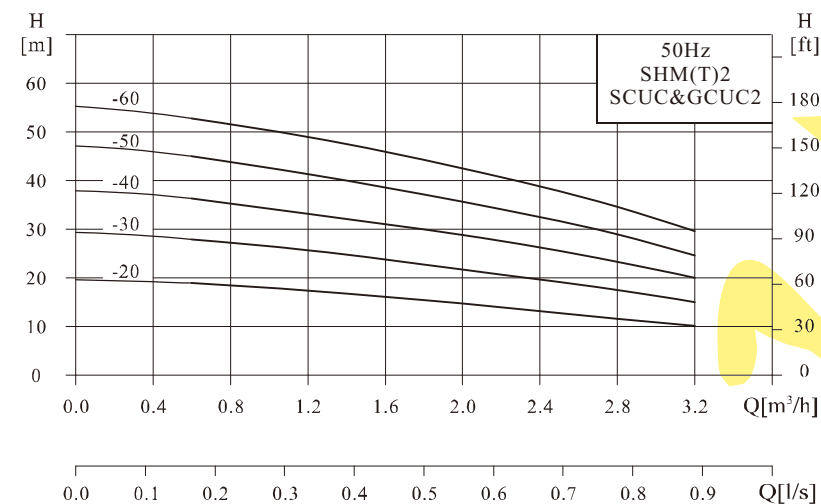
Installation



Size and Weight

Motor	Specification (mm)											Weight (kg)
	L	L1	L2	L3	L4	L5	Hthree phase	Hsingle phase	H1	H2	D	
SM20-20	580	138	280	160	108	130	240	270	118	260	180	28
SM20-30	650	140	360	170	190	230	270		120	262	220	41

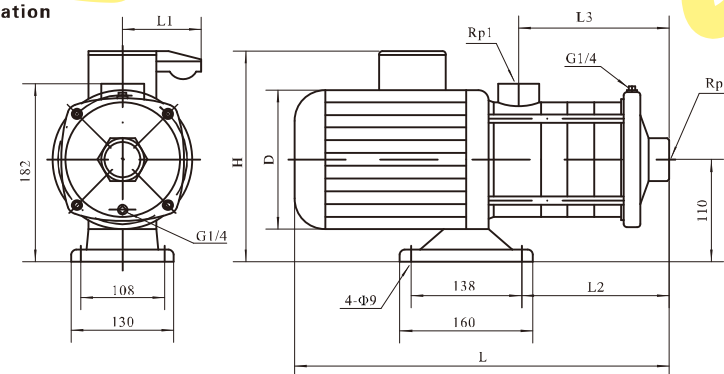
Performance Curve



Performance Curves

Model	Motor Capacity		Q (m ³ /h)	0.6	1.2	1.6	2	2.4	2.8	3.2
	(kW)	(hp)								
SHM(T)2-20 SCUC&GCUC2-20	0.37	0.5	II (m)	18.6	17.6	16	15	13.5	10.6	9.3
SHM(T)2-30 SCUC&GCUC2-30	0.37	0.5		27.7	26	24	22	19.5	16.5	13.5
SHM(T)2-40 SCUC&GCUC2-40	0.55	0.75		35.7	34	32	29	25.5	23.5	19
SHM(T)2-50 SCUC&GCUC2-50	0.55	0.75		45	42	39	36	33	28	24.5
SHM(T)2-60 SCUC&GCUC2-60	0.75	1		53	50	47.5	43.5	39	34	29.5

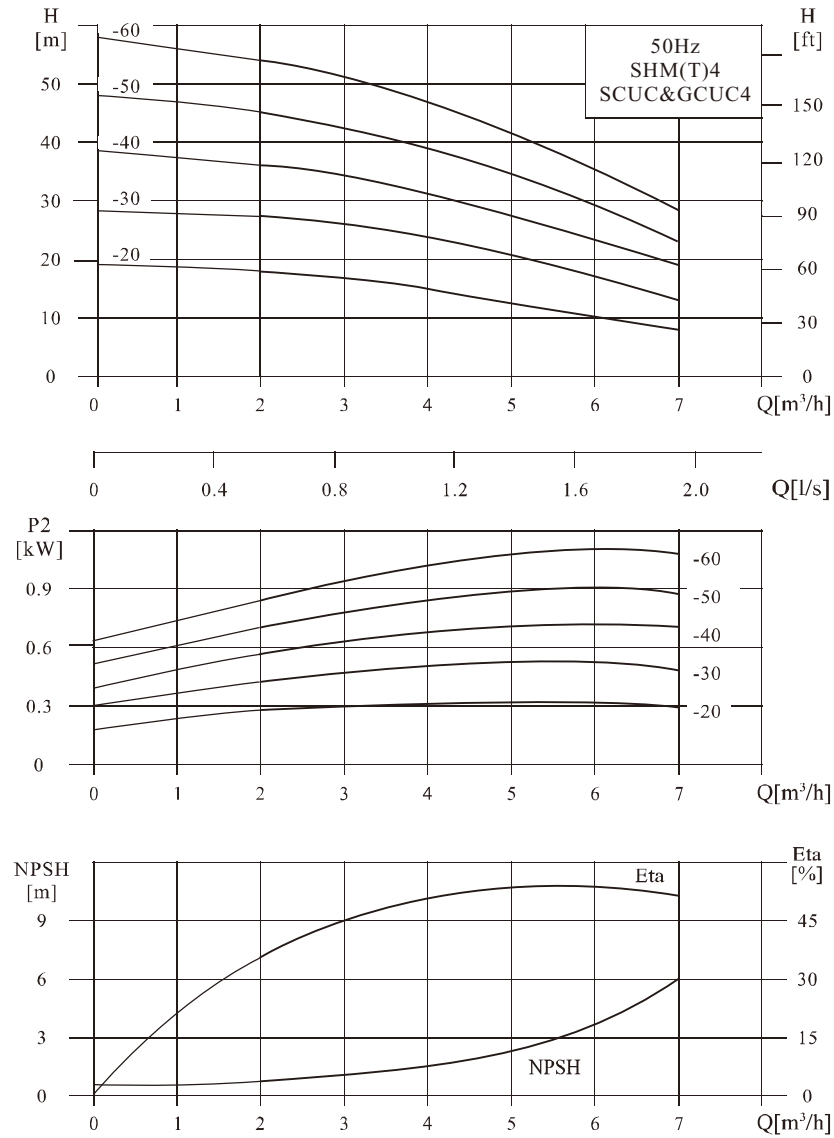
Installation



Size and Weight

Motor	Model	Specification (mm)						Weight (kg)
		L	L1	L2	L3	H	D	
Three phase /Single phase	SHM(T)2-20 SCUC&GCUC2-20	305	/96	87	84	215/230	145	13
	SHM(T)2-30 SCUC&GCUC2-30	323	/96	105	102	215/230	145	13
	SHM(T)2-40 SCUC&GCUC2-40	341	/96	123	120	215/230	145	14
	SHM(T)2-50 SCUC&GCUC2-50	359	/96	141	138	215/230	145	14
	SHM(T)2-60 SCUC&GCUC2-60	422	/100	159	156	225/245	170	16

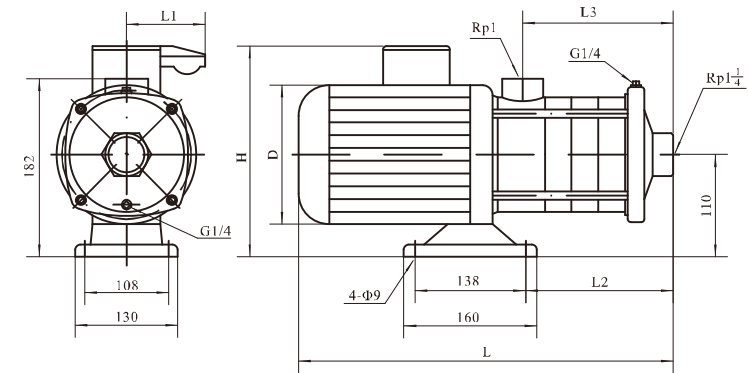
Performance Curve



Performance Curves

Model	Motor Capacity		Q (m³/h)	1	2	3	4	5	6	7
	(kW)	(hp)								
SHM(T)4-20 SCUC&GCUC4-20	0.37	0.55	H (m)	19	18	17	15	12.5	10	7.5
SHM(T)4-30 SCUC&GCUC4-30	0.55	0.75		28	27	26	23.5	20.5	17	13
SHM(T)4-40 SCUC&GCUC4-40	0.75	1		37.5	36	34	31	27	23	19
SHM(T)4-50 SCUC&GCUC4-50	1.1	1.5		47	45	42.5	39	34	29	23
SHM(T)4-60 SCUC&GCUC4-60	1.1	1.5		56	54	51	47	41.5	35.5	28

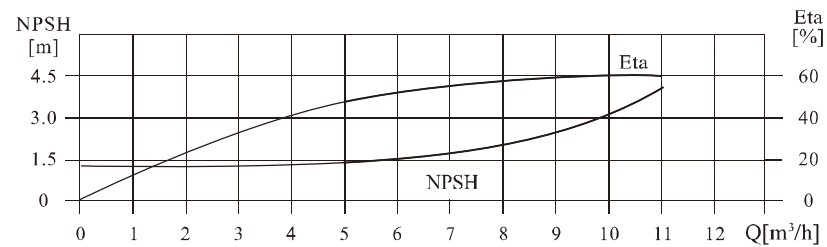
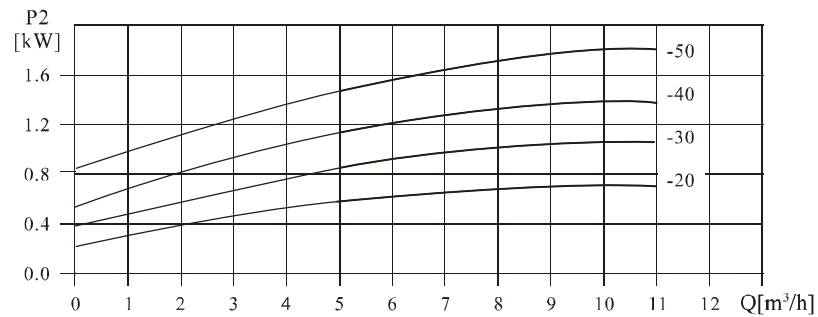
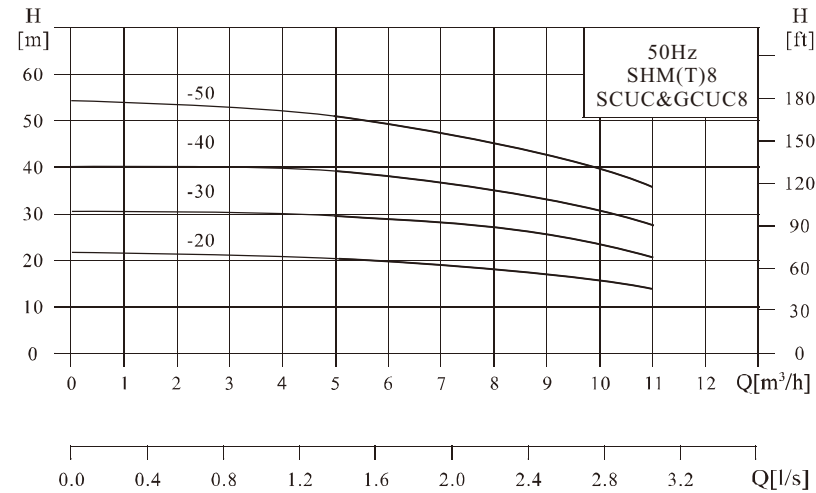
Installation



Size and Weight

Motor	Model	Specification (mm)						Weight (kg)
		L	L1	L2	L3	H	D	
Three phase /Single phase	SHM(T)4-20 SCUC&GCUC4-20	329	/96	105	102	215/230	145	12
	SHM(T)4-30 SCUC&GCUC4-30	356	/96	132	129	215/230	145	13
	SHM(T)4-40 SCUC&GCUC4-40	416	/100	159	156	225/245	170	14
	SHM(T)4-50 SCUC&GCUC4-50	455	/100	188	183	225/245	170	16
	SHM(T)4-60 SCUC&GCUC4-60	482	/100	215	210	225/245	170	16

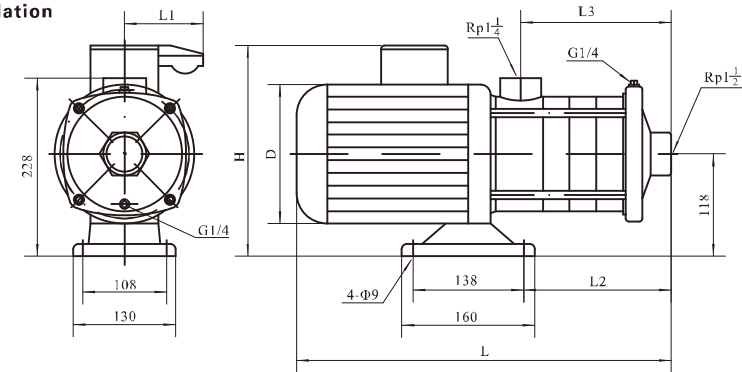
Performance Curve



Performance Curves

Model	Motor Capacity		Q (m³/h)	5	6	7	8	9	10	11
	(kW)	(hp)								
SHM(T)8-20 SCUC&GCUC8-20	0.75	1	H (m)	19.5	19	18.5	17.5	16.5	15	13.5
SHM(T)8-30 SCUC&GCUC8-30	1.1	1.5		29	28.5	27.5	26.5	24	22	20
SHM(T)8-40 SCUC&GCUC8-40	1.5	2		39	38	36.5	35	32	29.5	26
SHM(T)8-50 SCUC&GCUC8-40	2.2	3		50.5	49	46.5	44	41	38	33

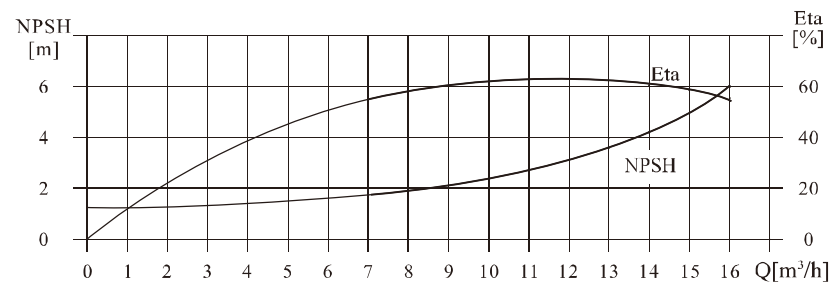
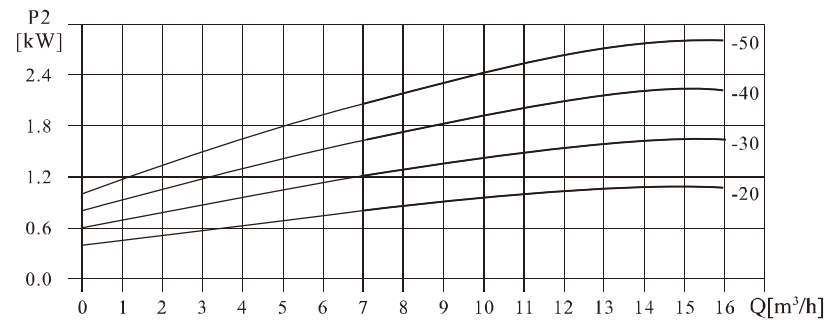
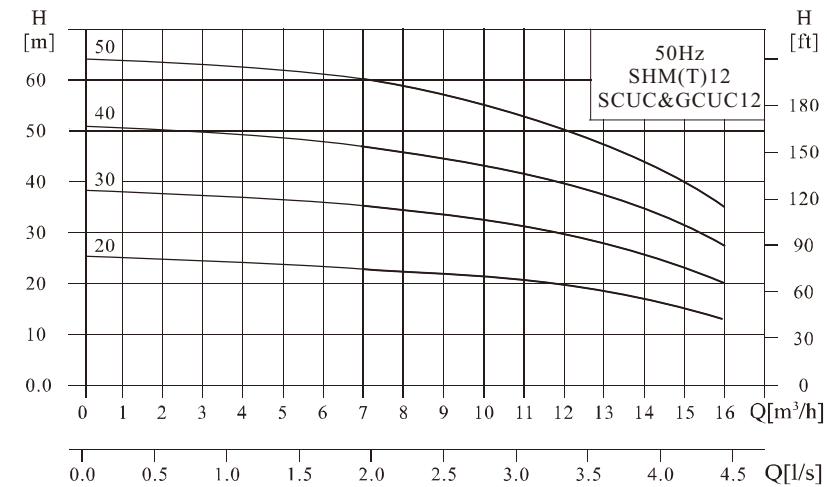
Installation



Size and Weight

Motor	Model	Specification (mm)						Weight (kg)
		L	L1	L2	L3	H	D	
Three phase /Single phase	SHM(T)8-20 SCUC&GCUC8-20	395	/100	126	108	230/265	170	20
	SHM(T)8-30 SCUC&GCUC8-30	425	/100	156	138	230/265	170	24
	SHM(T)8-40 SCUC&GCUC8-40	490	/100	186	168	240/270	180	28
	SHM(T)8-50 SCUC&GCUC8-40	520	/100	216	198	240/270	180	30

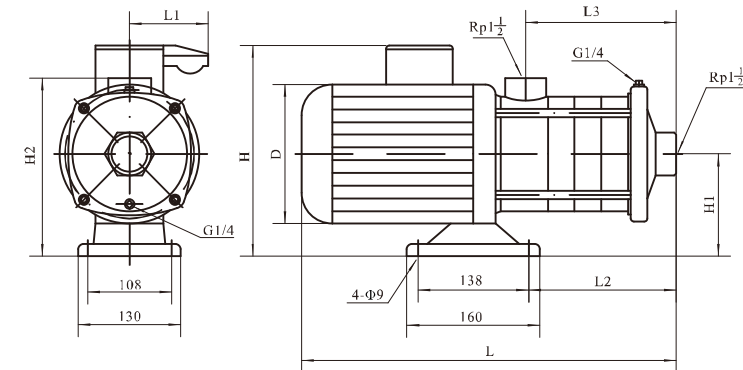
Performance Curve



Performance Curves

Model	Motor Capacity		Q (m³/h)	7	9	11	12	13	15	16
	(kW)	(hp)								
SHM (T) 12-20 SCUC&GCUC12-20	1.2	1.6	H (m)	23	22	20.5	19.5	18.5	15.5	13
SHM (T) 12-30 SCUC&GCUC12-30	1.8	2.4		35	33.5	31	29.5	28	23.5	20
SHM (T) 12-40 SCUC&GCUC12-40	2.4	3.3		47	45	41.5	39.5	37.5	31.5	27.5
SHM (T) 12-50 SCUC&GCUC12-50	3	4		60	56.5	52.5	50	47	40	35

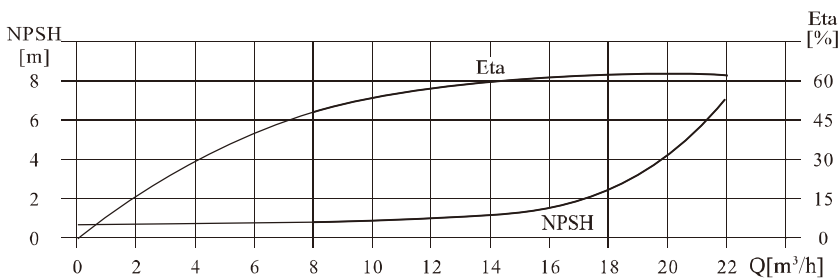
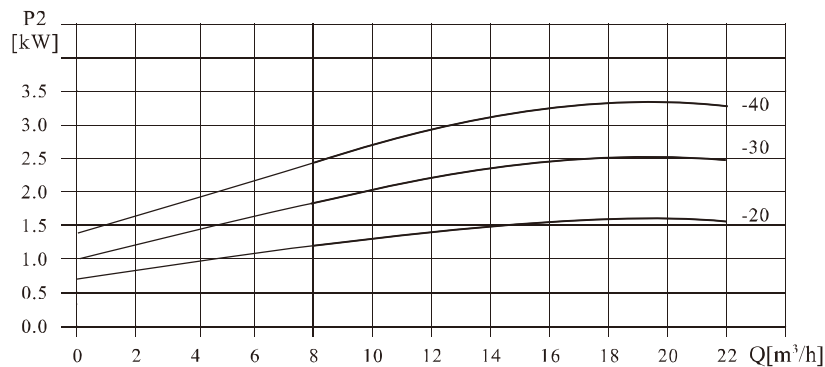
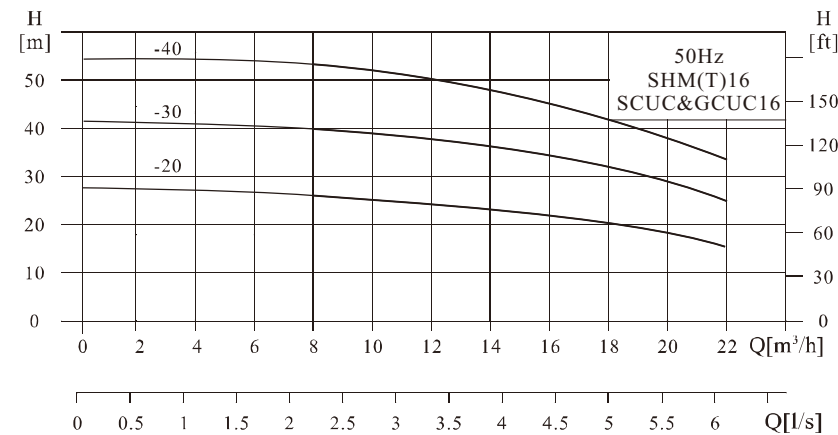
Installation



Size and Weight

Motor	Model	Specification (mm)								Weight (kg)
		L	L1	L2	L3	H	H1	H2	D	
Three phase /Single phase	SHM (T) 12-20 SCUC&GCUC12-20	395	/100	126	108	230/265	118	228	170	21
	SHM (T) 12-30 SCUC&GCUC12-30	460	/100	156	138	240/270	118	228	180	25
	SHM (T) 12-40 SCUC&GCUC12-40	490	/100	186	168	240/270	118	228	180	29
	SHM (T) 12-50 SCUC&GCUC12-50	555		216	198	270/	126	240	195	34

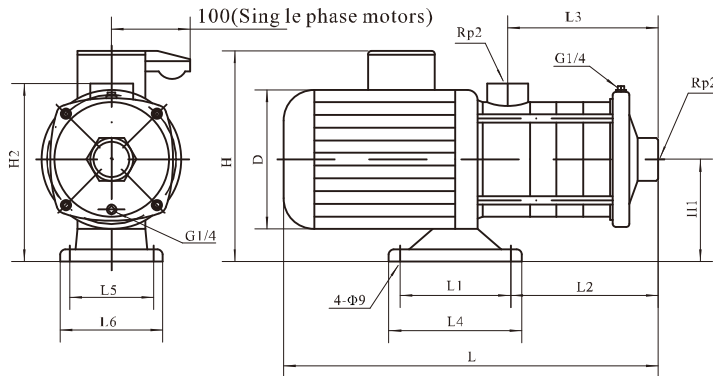
Performance Curve



Performance Curves

Model	Motor Capacity		Q (m³/h)	8	10	12	14	16	18	20	22
	(kW)	(hp)									
SHM(T) 16-20 SCUC&GCUC16-20	2.2	3	H (m)	26	25	24	23	21.6	20	18	15.5
SHM(T) 16-30 SCUC&GCUC16-30	3	4		40	39	38	36	34	31.5	29	25
SHM(T) 16-40 SCUC&GCUC16-40	4	5.5		53.5	52	50	48	45	42	38	33.5

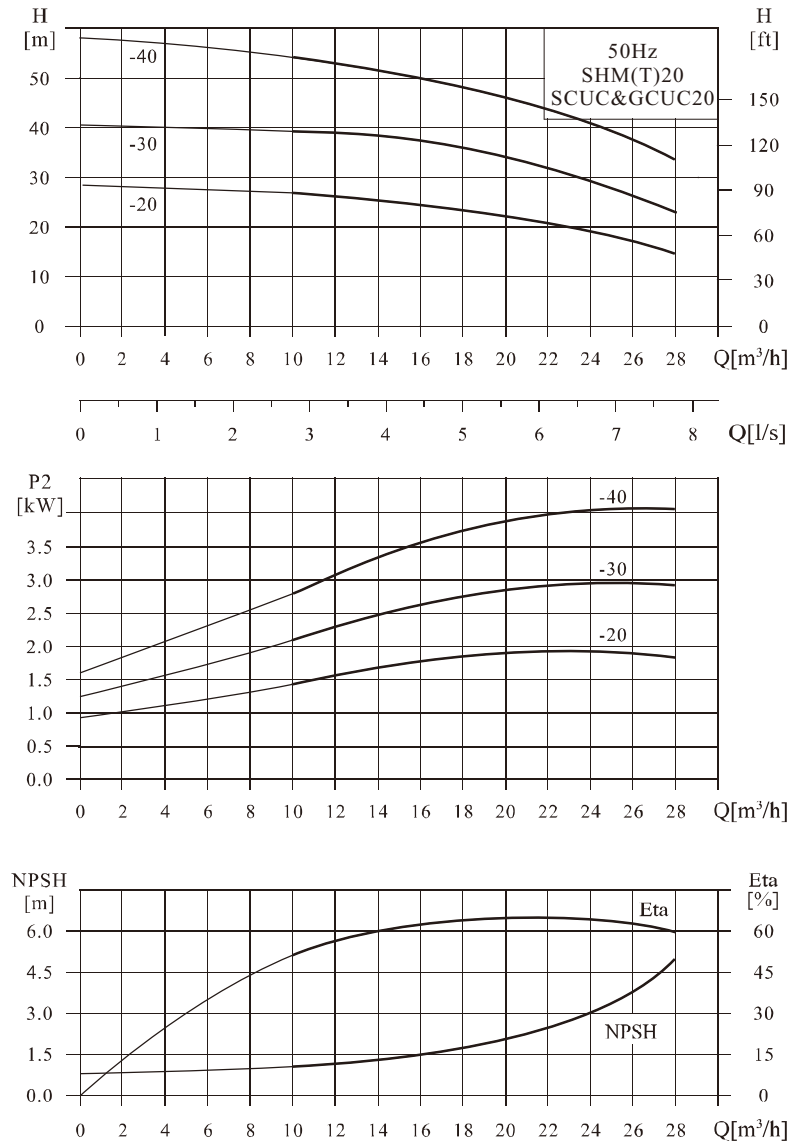
Installation



Size and Weight

Motor	Specification (mm)												Weight (kg)
	L	L1	L2	L3	L4	L5	L6	Hthree phase	Hsingle phase	H1	H2	D	
SHM (T) 16-20 SCUC&GCUC16-20	455	138	151	126	160	108	130	240	270	118	228	180	27
SHM (T) 16-30 SCUC&GCUC16-30	561	138	196	171	160	108	130	270		130	240	195	33
SHM (T) 16-40 SCUC&GCUC16-40	621	140	340	216	170	190	230	270		120	230	220	40

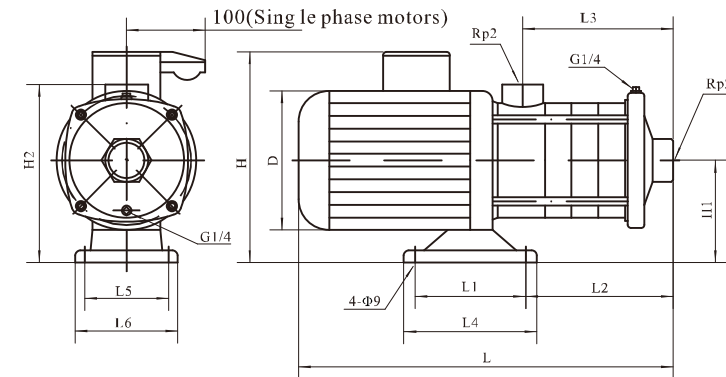
Performance Curve



Performance Curves

Model	Motor Capacity		Q (m³/h)	10	14	16	18	20	22	24	28
	(kW)	(hp)									
SHM (T) 20-20 SCUC&GCUC20-20	2.2	3	H (m)	27	25.5	25	23.5	22	20.5	18.5	14.5
SHM (T) 20-30 SCUC&GCUC20-30	4	5.5		39.5	38	37.5	35.5	34	31	29	23
SHM (T) 20-40 SCUC&GCUC20-40	4.4	6		53	51	50	48.5	46.5	43	40	32.5

Installation



Size and Weight

Motor	Specification (mm)												Weight (kg)
	L	L1	L2	L3	L4	L5	L6	Hthree phase	Hsingle phase	H1	H2	D	
SHM (T) 20-20 SCUC&GCUC20-20	455	138	151	126	160	108	130	240	270	118	228	180	27
SHM (T) 20-30 SCUC&GCUC20-30	576	140	294	171	170	190	230	270		120	230	220	40
SHM (T) 20-40 SCUC&GCUC20-40	621	140	340	216	170	190	230	270		120	230	220	44