

Horizontal Multistage Pump

CHL/CHB/CHM/CHLF(T) Pump Catalog



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SHANGHAI PUMPINGTECH INTERNATIONAL CO.,LTD

CHL/CHB/CHLF/CHLF(T)

STAINLESS STEEL HORIZONTAL MULTI-STAGE CENTRIFUGAL PUMP



Applications and conditions

CHL, CHLF, CHLF(T) are non-self-priming light horizontal multistage centrifugal pump(abbr. as pump in the following). They are efficient, low noise, little corrosive tolerance, compact structure, good looking, small volume, light weight, etc.

Applications

Pumped liquids: Low viscosity, neutral, non-explosive liquids, not containing solid particles or fibres. The liquid must not attack the pump materials chemically. (Oil or the liquid mainly consisted of oil can be pumped by special type of pumps);

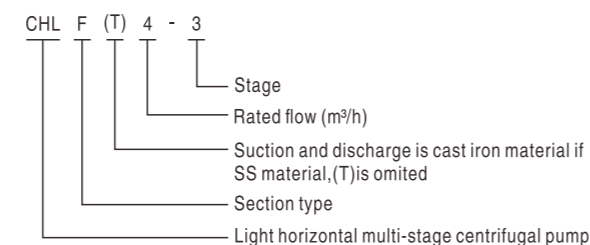
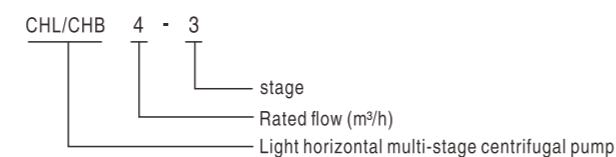
- Circulation for air condition system;
- Cooling system;
- Water treatment, purification system;
- Industry cleaning system;
- Liquid transferring, circulation, boosting;
- Hot or cold water;
- Feed proportioning system of food, drinking, agriculture, etc.

Operation conditions

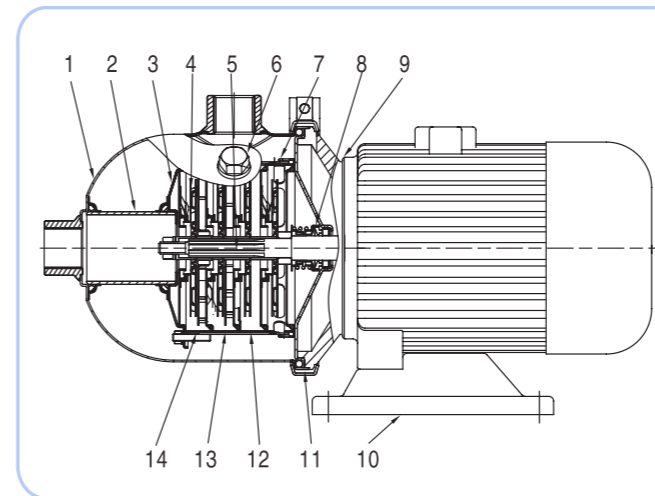
- Liquid temperature: Normal temperature type -15 °C ~+700°C ; Hot water type -15 °C~+110 °C ;
- Flow range: 0.5~28m³/h;
- Max pressure: 10 bar;
- Liquid pH range: pH5~9;
- Max ambient temperature: +40°C;
- The Max suction pressure is limited by max operating pressure;
- Min inlet pressure: Refer to CHL catalogue.

Caution: When pumping liquids with a density and/or viscosity higher than that of water, use motors with correspondingly higher outputs, if required.

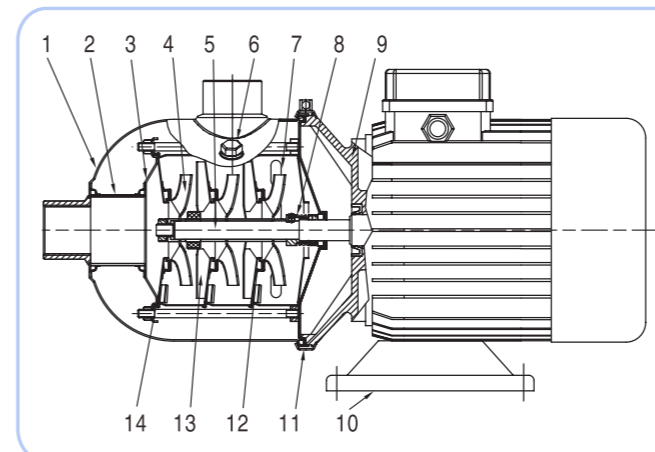
Definition of Model



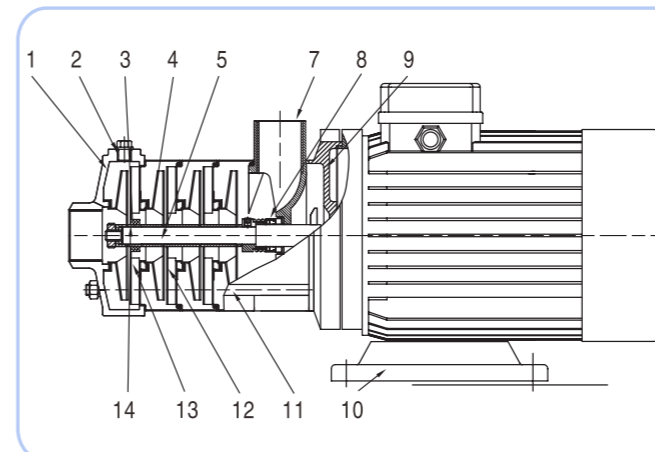
Section drawing CHL/CHB2,4



Section drawing CHL8,12,16,20/CHB8,12



Section drawing CHLF,CHLF(T)



Material CHL

| NO. | Name | Material | AISI/ASTM |
|-----|------------------------|-----------------|-----------|
| 1 | Pressure tank | Stainless steel | AISI304 |
| 2 | Connecting pipe | Stainless steel | AISI304 |
| 3 | Gland subassembly | Stainless steel | AISI304 |
| 4 | Impeller | Stainless steel | AISI304 |
| 5 | Shaft | Stainless steel | AISI304 |
| 6 | Screw plug | Stainless steel | AISI304 |
| 7 | Outlet fluid director | Stainless steel | AISI304 |
| 8 | Mechanical seal | | |
| 9 | End cover of motor | Aluminium alloy | |
| 10 | Base | Steel plate | AISI1015 |
| 11 | Anchor ear | Stainless steel | AISI304 |
| 12 | Fluid director | Stainless steel | AISI304 |
| 13 | Bearing fluid director | Stainless steel | AISI304 |
| 14 | Inlet fluid director | Stainless steel | AISI304 |

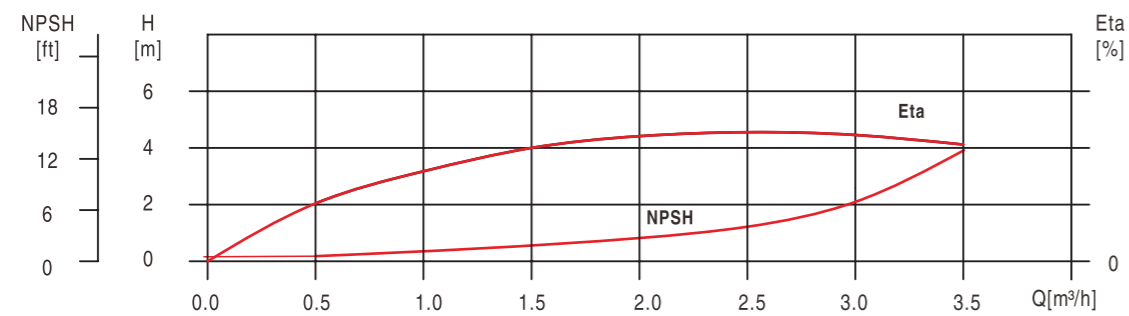
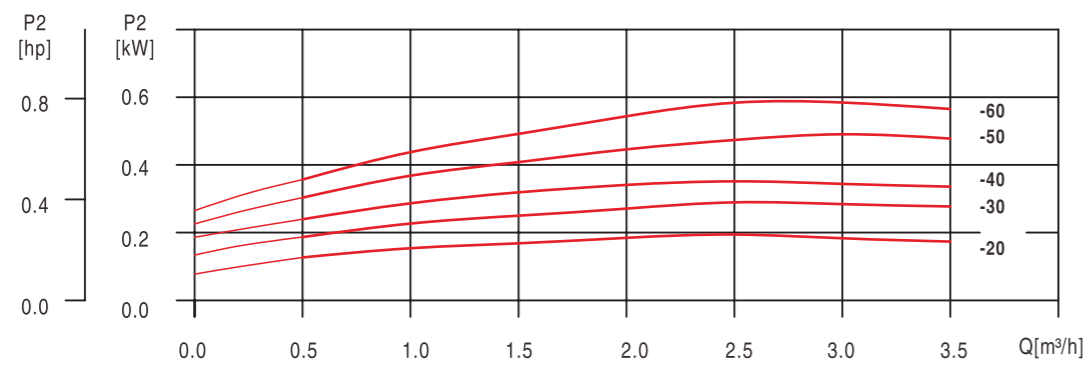
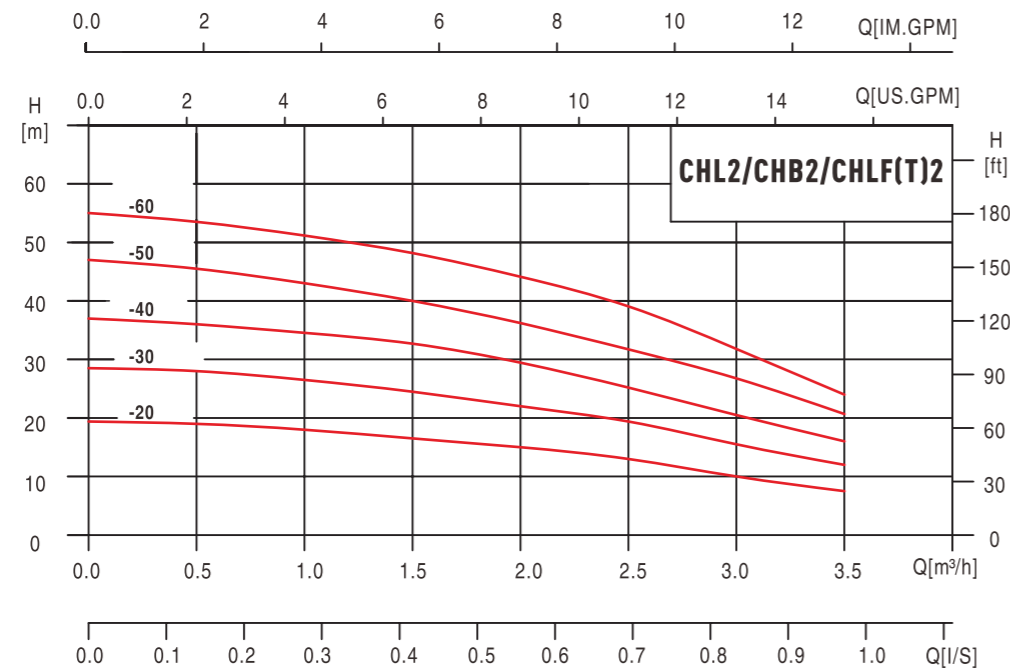
Material CHLF,CHLF(T)

| NO. | Name | Material | AISI/ASTM |
|---------|------------------------|------------------|-----------|
| 2 | screw plug | Stainless steel | AISI304 |
| 3 | bearing | Tungsten carbide | |
| 4 | impeller | Stainless steel | AISI304 |
| 5 | shaft | Stainless steel | AISI304 |
| 8 | mechanical seal | | |
| 9 | end cover of the motor | Aluminium alloy | |
| 10 | base | Steel plate | AISI1015 |
| 11 | pull rod | Stainless steel | AISI304 |
| 12 | fluid director | Stainless steel | AISI304 |
| 13 | bearing fluid director | Stainless steel | AISI304 |
| 14 | jacket | Stainless steel | AISI304 |
| CHLF | | | |
| 1 | water-in body | Stainless steel | AISI304 |
| 7 | water-out body | Stainless steel | AISI304 |
| CHLF(T) | | | |
| 1 | water-in body | Cast iron | ASTM25B |
| 7 | water-out body | Cast iron | ASTM25B |

CHL2/CHB2/CHLF(T)2, 50Hz

● Performance curve

2900rpm

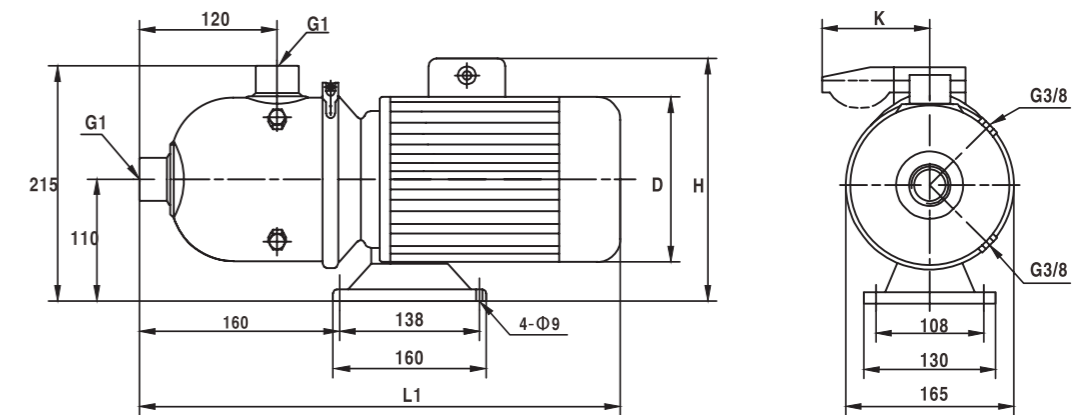


● Performance table

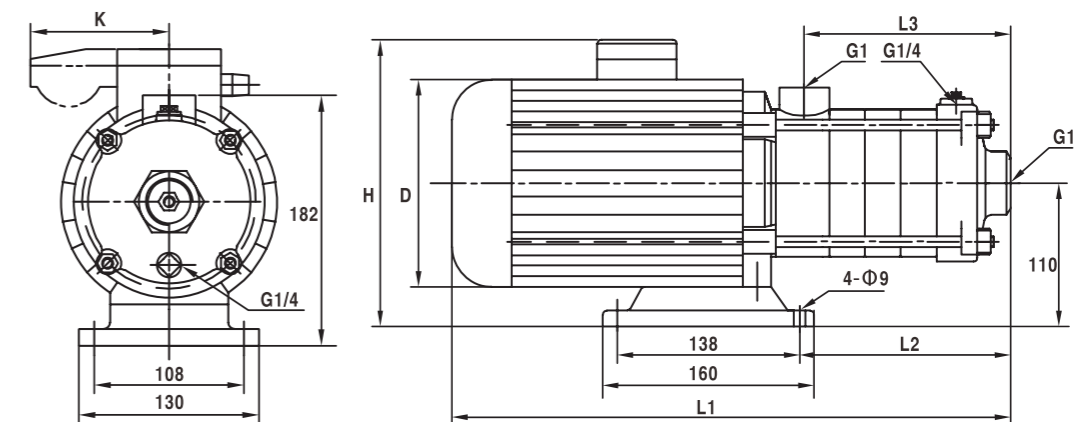
| MODEL | POWER (kW) | Q (m³/h) | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 |
|--------------------------------|------------|----------|------|------|------|-----|------|------|------|
| CHL2-2 CHB2-2 CHLF(T)2-2 | 0.37 | H (m) | 19 | 18 | 16.5 | 15 | 13 | 10 | 7.5 |
| CHL2-3 CHB2-3 CHLF(T)2-3 | 0.37 | | 28 | 26.5 | 24.5 | 22 | 19 | 15.5 | 12 |
| CHL2-4 CHB2-4 CHLF(T)2-4 | 0.55 | | 36 | 34.5 | 33 | 29 | 25 | 20.5 | 16 |
| CHL2-5 CHB2-5 CHLF(T)2-5 | 0.55 | | 45.5 | 43 | 40 | 36 | 31.5 | 26.5 | 20.5 |
| CHL2-6 CHB2-6 CHLF(T)2-6 | 0.75 | | 53.5 | 51 | 48 | 44 | 39 | 32 | 24 |

● Installation sketch

CHL2/CHB2



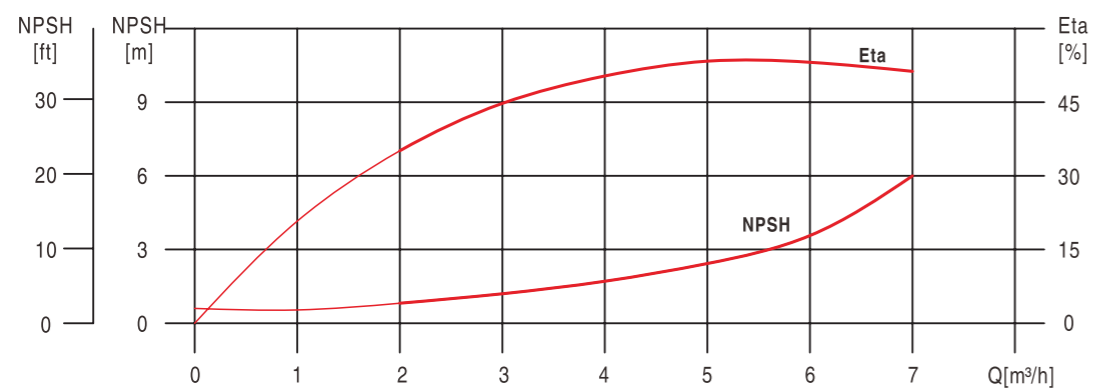
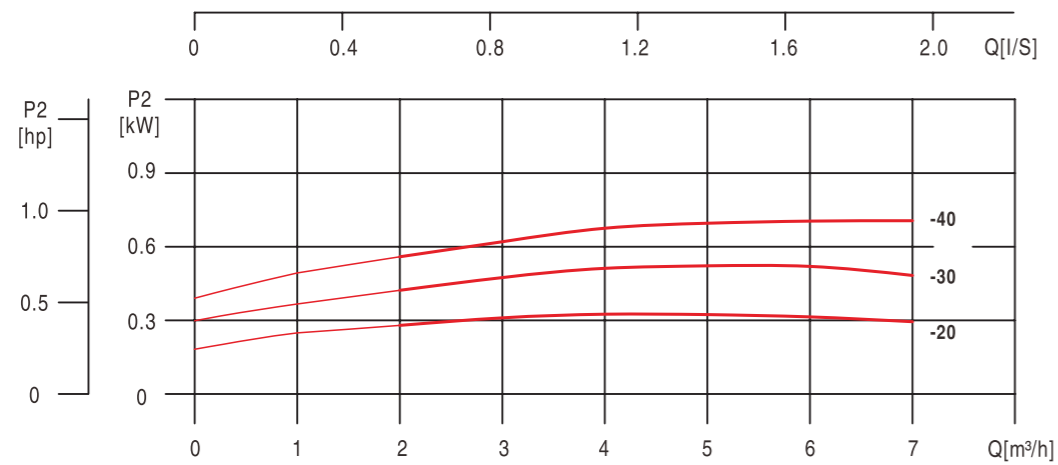
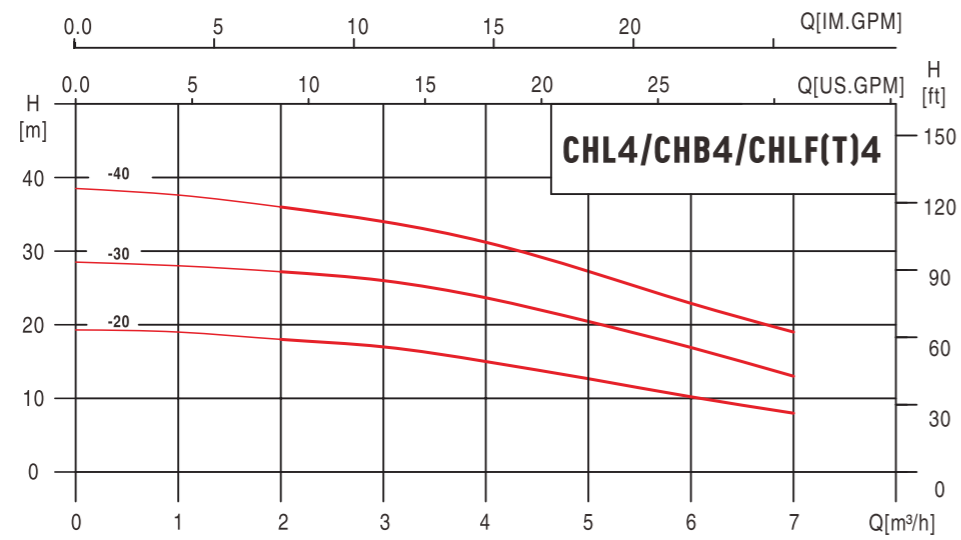
CHLF(T)2



CHL4/CHB4/CHLF(T)4, 50Hz

● Performance curve

2900rpm

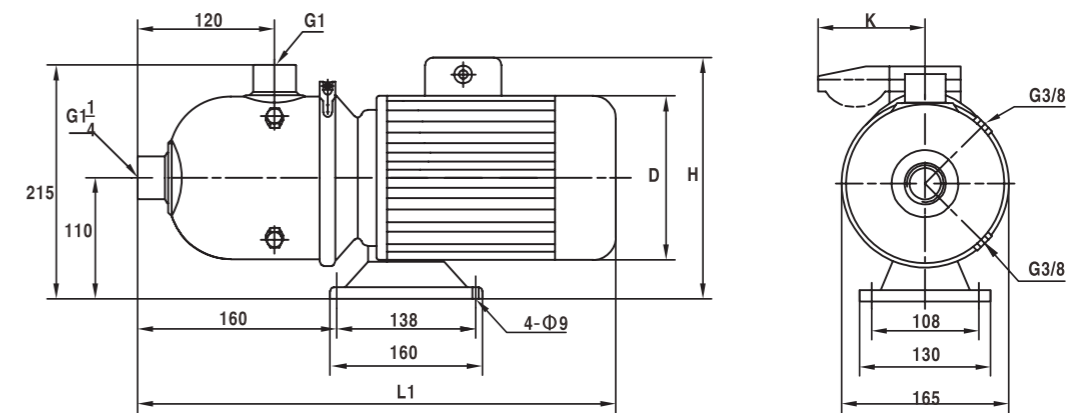


● Performance table

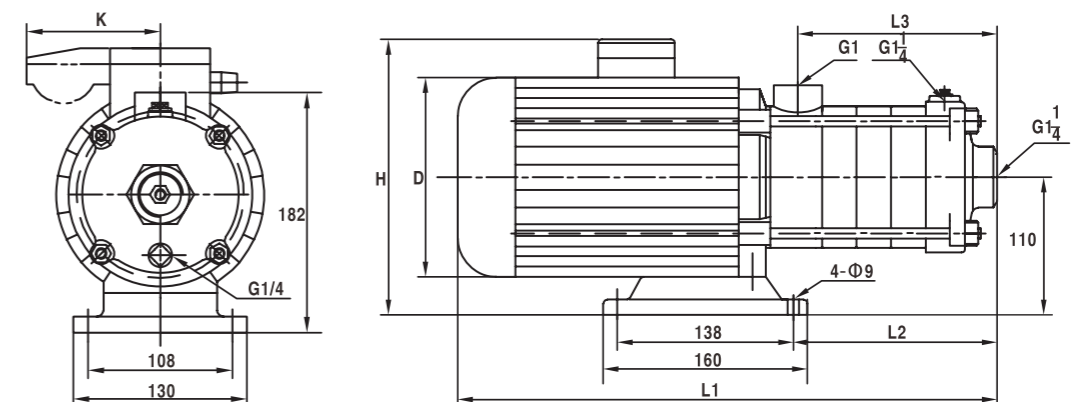
| MODEL | POWER (kW) | Q (m³/h) | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|--------------------------------|------------|----------|------|----|------|------|------|------|----|
| CHL4-2 CHB4-2 CHLF(T)4-2 | 0.37 | H (m) | 19 | 18 | 17 | 15 | 12.5 | 10 | 8 |
| CHL4-3 CHB4-3 CHLF(T)4-3 | 0.55 | | 28 | 27 | 26 | 23.5 | 20.5 | 17 | 13 |
| CHL4-4 CHB4-4 CHLF(T)4-4 | 0.75 | | 37.5 | 36 | 34 | 31 | 27 | 23 | 19 |
| CHB4-5 CHLF(T)4-5 | 1.1 | | 47 | 45 | 42.5 | 39 | 34 | 29 | 23 |
| CHB4-6 CHLF(T)4-6 | 1.1 | | 56 | 54 | 51 | 47 | 41.5 | 35.5 | 28 |

● Installation sketch

CHL4/CHB4



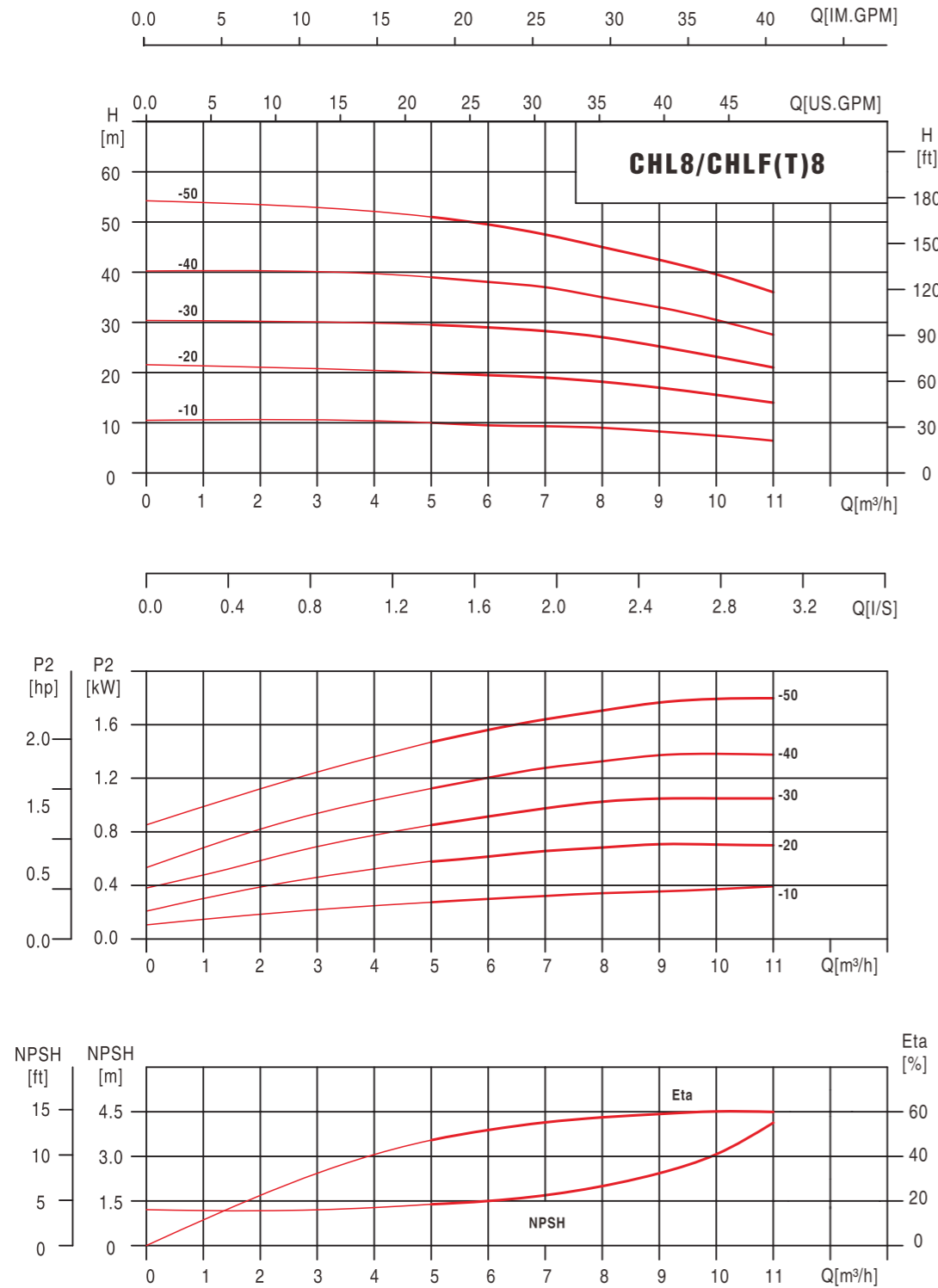
CHLF(T)4



CHL8/CHLF(T)8, 50Hz

● Performance curve

2900rpm

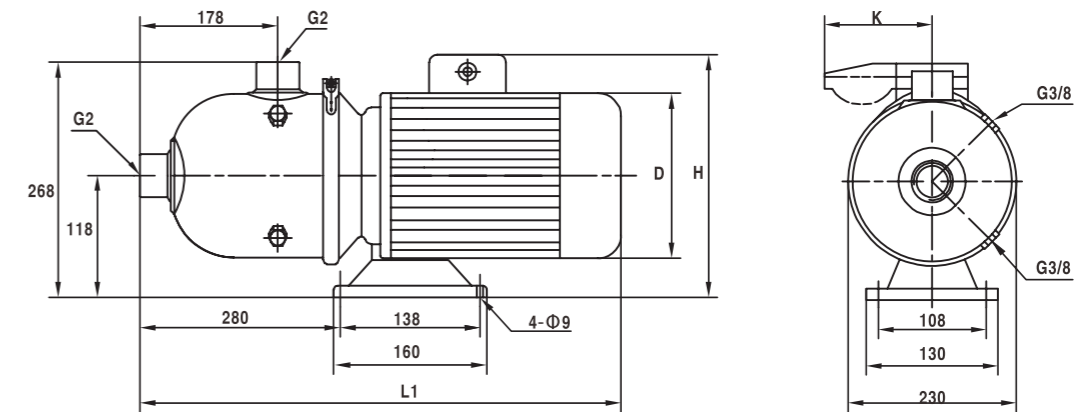


● Performance table

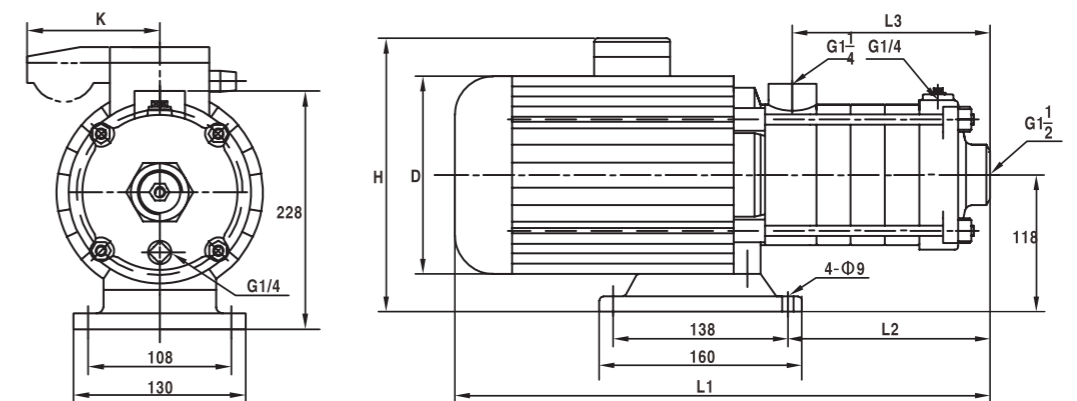
| MODEL | POWER (kW) | Q (m³/h) | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|----------------------|------------|----------|------|------|------|----|------|------|------|
| CHL8-1 CHLF(T)8-1 | 0.75 | H (m) | 10 | 9.5 | 9.3 | 9 | 8 | 7.5 | 7 |
| CHL8-2 CHLF(T)8-2 | 0.75 | | 20 | 19.5 | 19 | 18 | 17 | 15.5 | 14 |
| CHL8-3 CHLF(T)8-3 | 1.1 | | 29.5 | 29 | 28 | 27 | 25 | 23 | 21 |
| CHL8-4 CHLF(T)8-4 | 1.5 | | 39 | 38 | 37 | 35 | 33 | 30.5 | 27.5 |
| CHL8-5 CHLF(T)8-5 | 2.2 | | 51 | 49.5 | 47.5 | 45 | 42.5 | 39.5 | 36 |

● Installation sketch

CHL8



CHLF(T)8



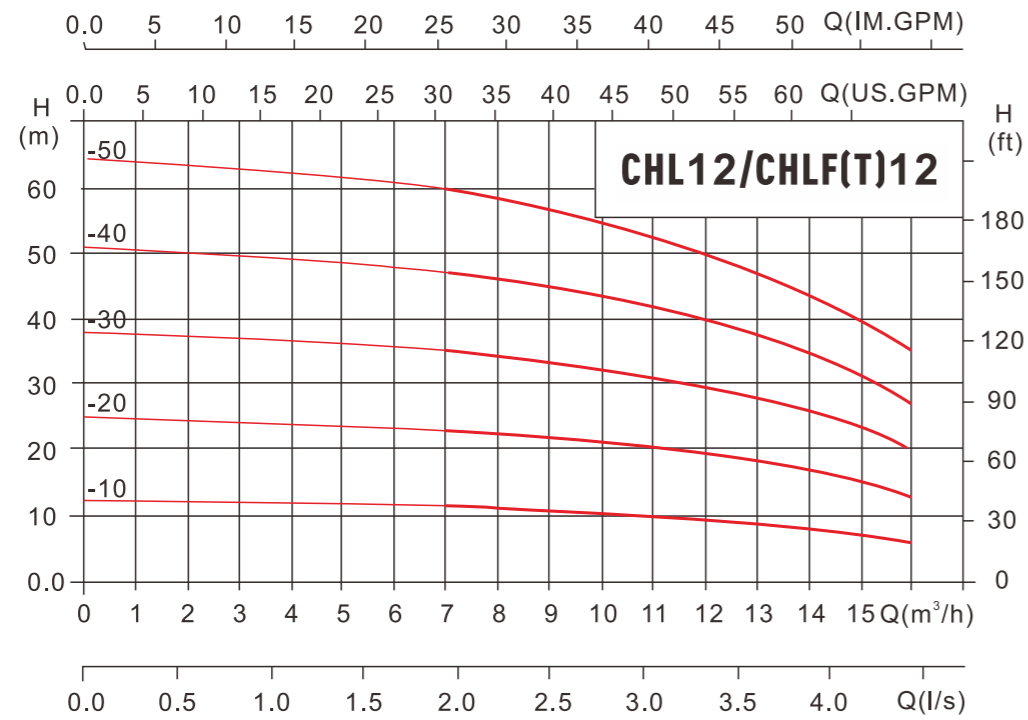
CHL12/CHLF(T)12, 50Hz

● Performance curve

2900rpm

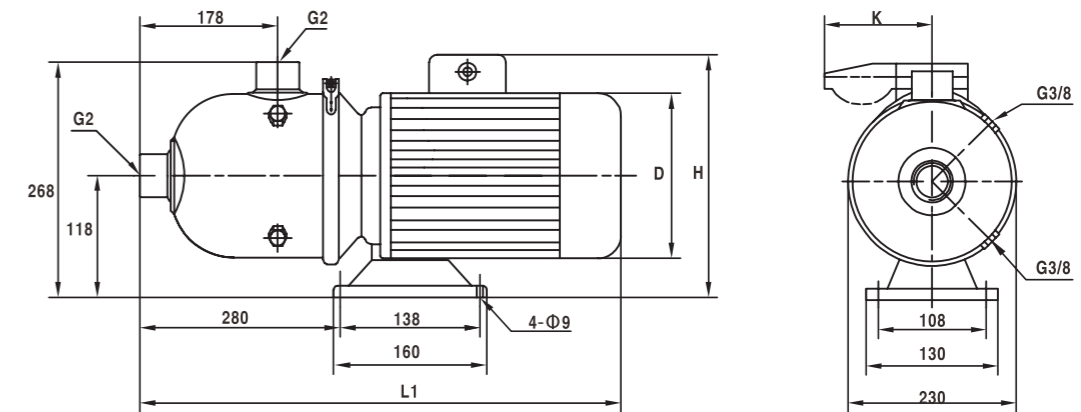
● Performance table

| Model | Driving motor | | Q (m ³ /h) | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|------------------------|---------------|------|-----------------------|------|------|------|------|------|------|------|----|------|------|
| | (kw) | (hp) | | | | | | | | | | | |
| CHL12-1 CHLF(T)12-1 | 0.75 | 1 | H (m) | 11.5 | 11.2 | 11 | 10.5 | 10 | 9.5 | 9 | 8 | 7 | 6 |
| CHL12-2 CHLF(T)12-2 | 1.2 | 1.6 | | 23 | 22.5 | 22 | 21.5 | 20.5 | 19.5 | 18.5 | 17 | 15.5 | 13 |
| CHL12-3 CHLF(T)12-3 | 1.8 | 2.4 | | 35 | 34.5 | 33.5 | 32.5 | 31 | 29.5 | 28 | 26 | 23.5 | 20 |
| CHL12-4 CHLF(T)12-4 | 2.4 | 3.3 | | 47 | 46 | 45 | 43.5 | 41.5 | 39.5 | 37.5 | 35 | 31.5 | 27.5 |
| CHL12-5 CHLF(T)12-5 | 3 | 4 | | 60 | 58 | 56.5 | 55 | 52.5 | 50 | 47 | 44 | 40 | 35 |

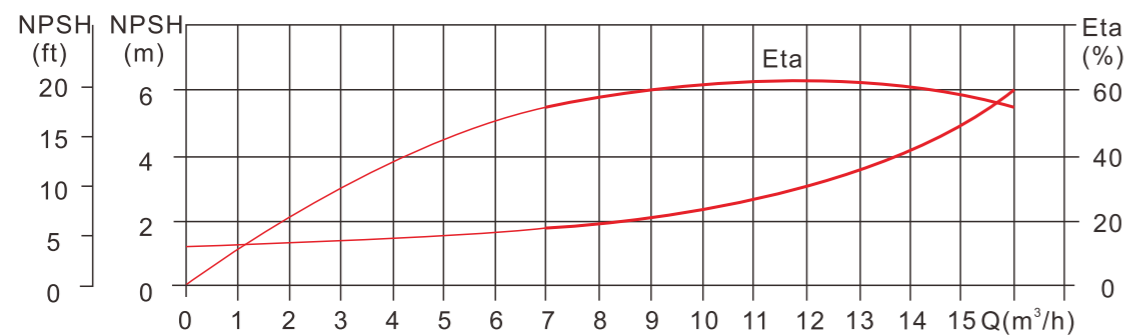
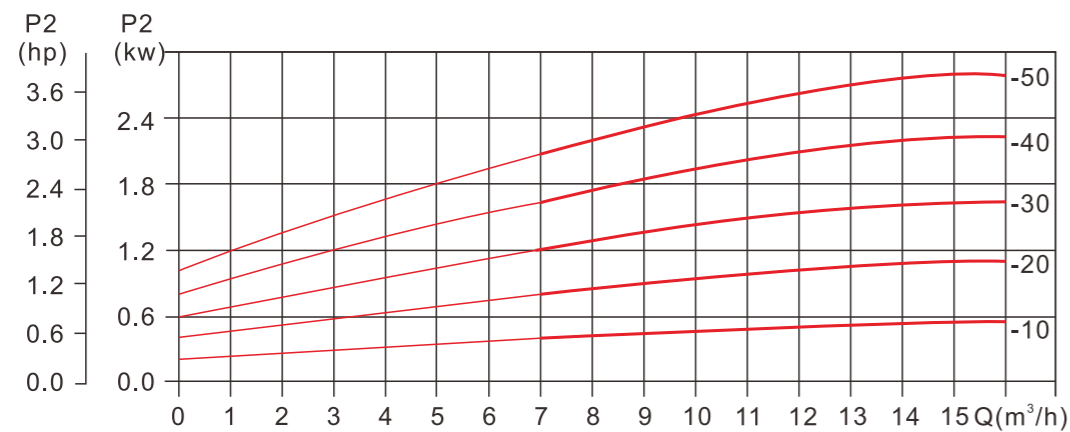
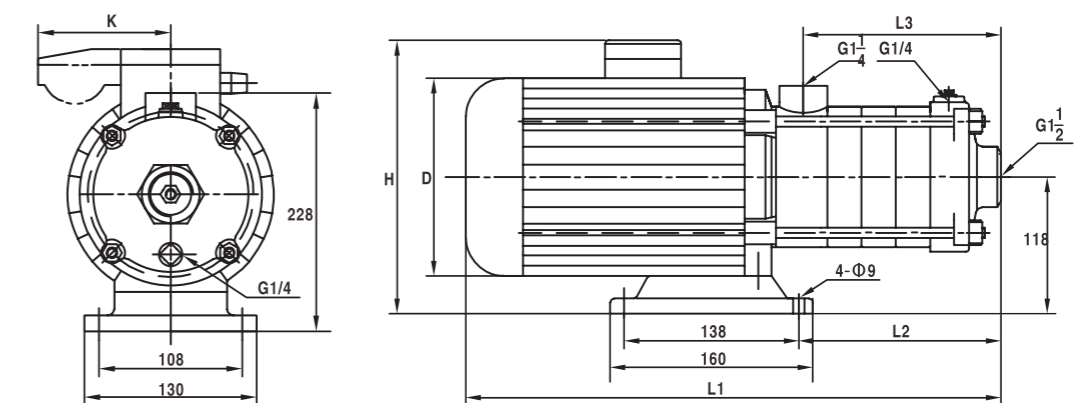


● Installation sketch

CHL12



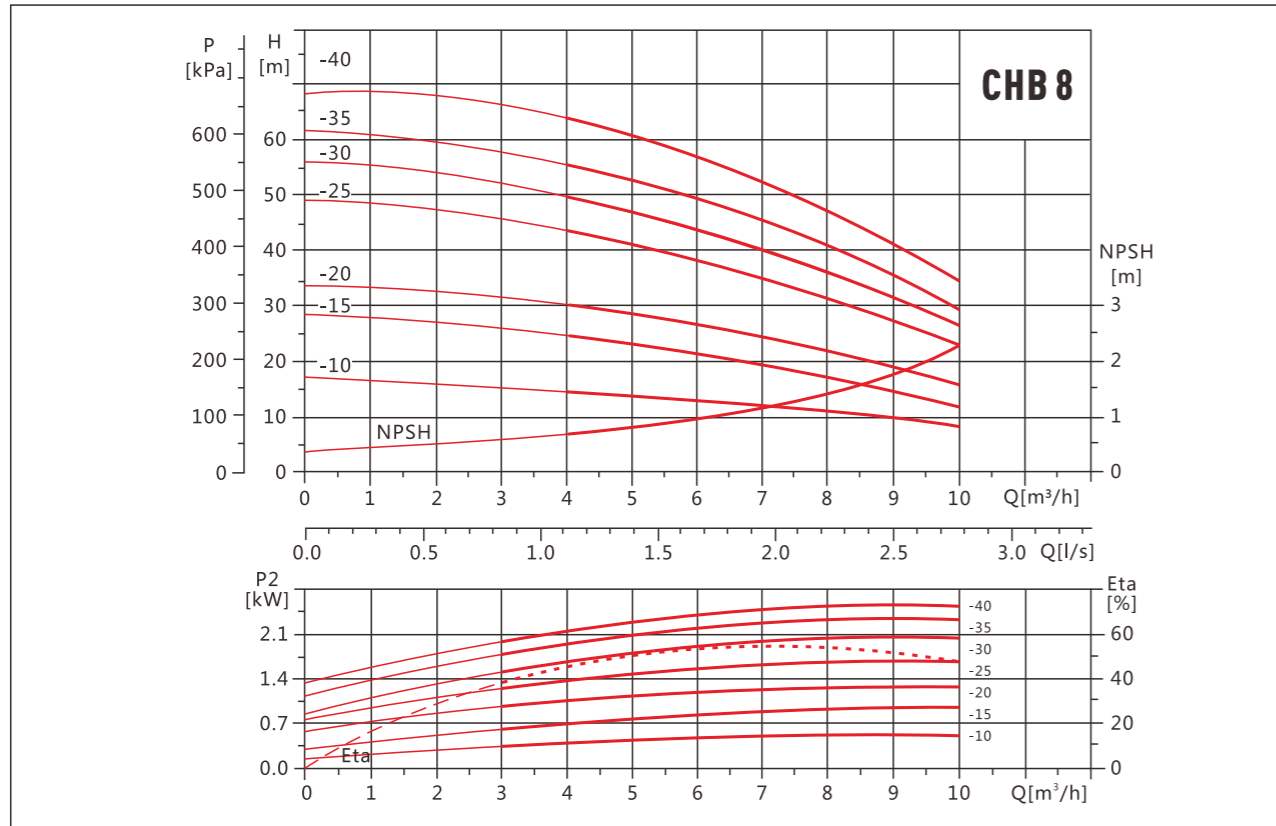
CHLF(T)12



CHB8/12, 50Hz

Performance curve

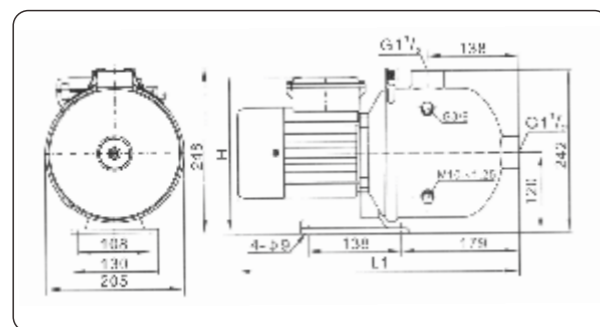
2900rpm



Performance table

| Model | Driving motor P ₂ (kW) | Q (m ³ /h) | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10 |
|---------|-----------------------------------|-----------------------|-----|------|-----|------|-----|-----|----|
| CHB8-10 | 0.55 | H (m) | 15 | 14 | 13 | 12.5 | 12 | 9 | 8 |
| CHB8-15 | 0.75 | | 25 | 23 | 22 | 21 | 20 | 14 | 12 |
| CHB8-20 | 1.0 | | 32 | 29 | 27 | 25 | 24 | 21 | 17 |
| CHB8-25 | 1.5 | | 43 | 40 | 38 | 34 | 27 | 25 | 20 |
| CHB8-30 | 1.85 | | 50 | 46 | 44 | 40 | 36 | 30 | 26 |
| CHB8-35 | 2.2 | | 56 | 51 | 48 | 44 | 43 | 35 | 28 |
| CHB8-40 | 2.2 | | 65 | 57.5 | 57 | 50 | 48 | 42 | 34 |

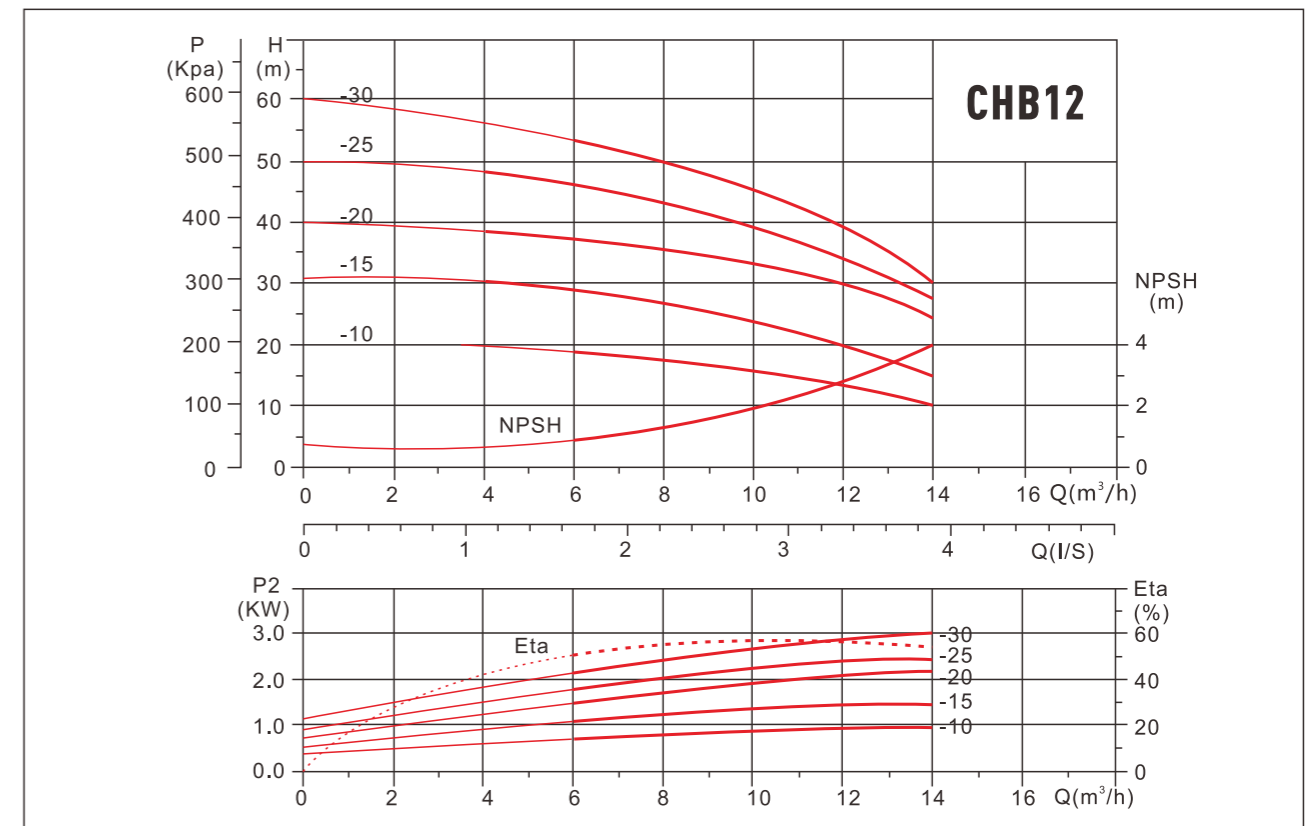
Installation sketch



| Model | Dimensions(mm) | | | | Weight (kg) |
|---------|----------------|-----|-------------|-----|-------------|
| | Single Phase | | Three Phase | | |
| | L1 | H | L1 | H | |
| CHB8-10 | 424 | 227 | 424 | 222 | 10.5 |
| CHB8-15 | 424 | 227 | 424 | 222 | 12 |
| CHB8-20 | 424 | 227 | 424 | 222 | 14 |
| CHB8-25 | 459 | 235 | 459 | 232 | 17 |
| CHB8-30 | 500 | 239 | 459 | 232 | 21.5 |
| CHB8-35 | 500 | 239 | 459 | 232 | 23 |
| CHB8-40 | 500 | 239 | 459 | 232 | 24 |

Performance curve

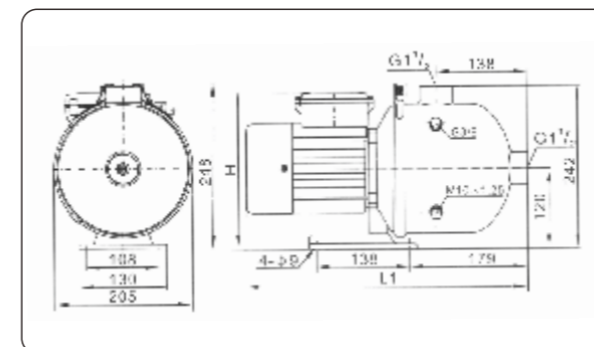
2900rpm



Performance table

| Model | Driving motor P ₂ (kW) | Q (m ³ /h) | 6.0 | 7.0 | 8.0 | 9.0 | 10 | 11 | 12 | 13 | 14 |
|----------|-----------------------------------|-----------------------|------|-----|------|------|------|----|------|------|------|
| CHB12-10 | 1.0 | H (m) | 19 | 18 | 17.5 | 16 | 15.5 | 14 | 13.5 | 12 | 10.5 |
| CHB12-15 | 1.5 | | 28 | 27 | 26 | 25 | 24 | 22 | 20 | 18 | 15 |
| CHB12-20 | 1.85 | | 38 | 36 | 35 | 32 | 31 | 29 | 28 | 24 | 20 |
| CHB12-25 | 2.2 | | 47 | 45 | 43 | 41.5 | 39 | 36 | 33.5 | 30.5 | 27 |
| CHB12-30 | 3.0 | | 53.5 | 52 | 50 | 47.5 | 45 | 42 | 39 | 35 | 30 |

Installation sketch

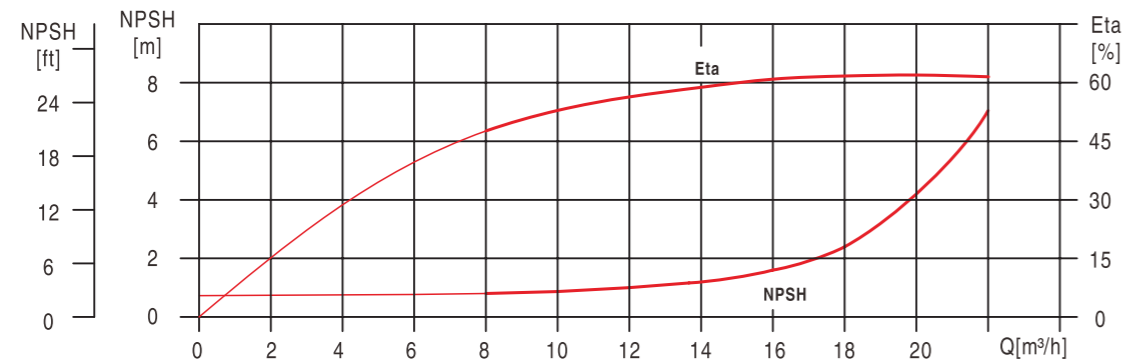
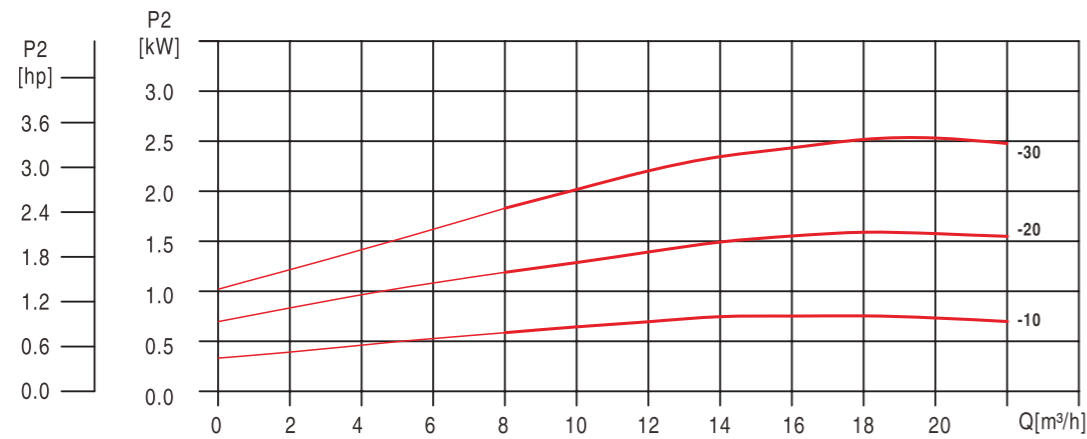
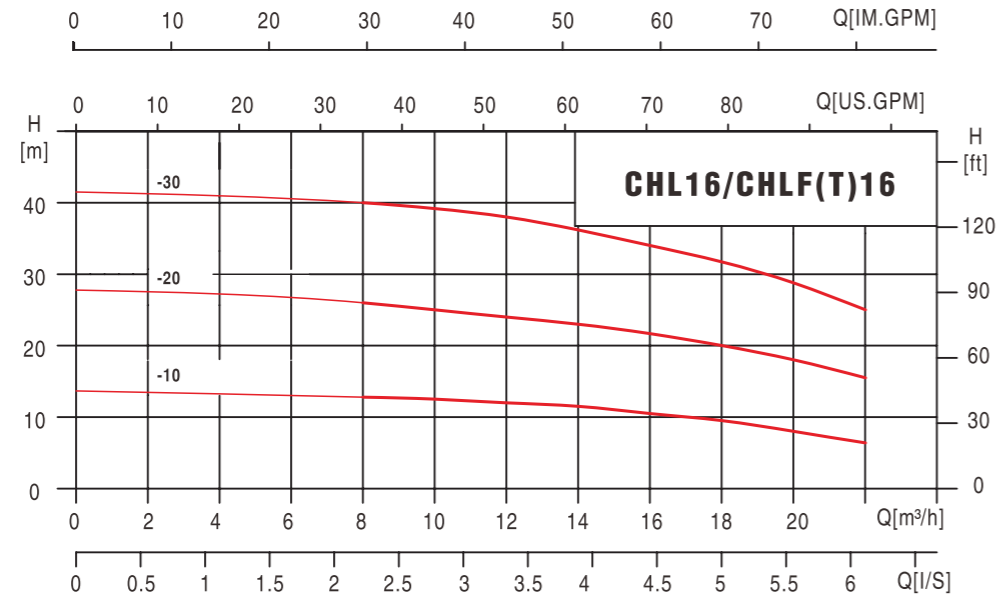


| Model | Dimensions(mm) | | | | Weight (kg) |
|----------|----------------|-----|-------------|-----|-------------|
| | Single Phase | | Three Phase | | |
| | L1 | H | L1 | H | |
| CHB12-10 | 424 | 227 | 424 | 222 | 10.5 |
| CHB12-15 | 424 | 227 | 424 | 222 | 12 |
| CHB12-20 | 424 | 227 | 424 | 222 | 14 |
| CHB12-25 | 459 | 235 | 459 | 232 | 17 |
| CHB12-30 | 500 | 239 | 459 | 232 | 21.5 |
| CHB12-35 | 500 | 239 | 459 | 232 | 23 |
| CHB12-40 | 500 | 239 | 459 | 232 | 24 |

CHL16/CHLF(T)16, 50Hz

● Performance curve

2900rpm

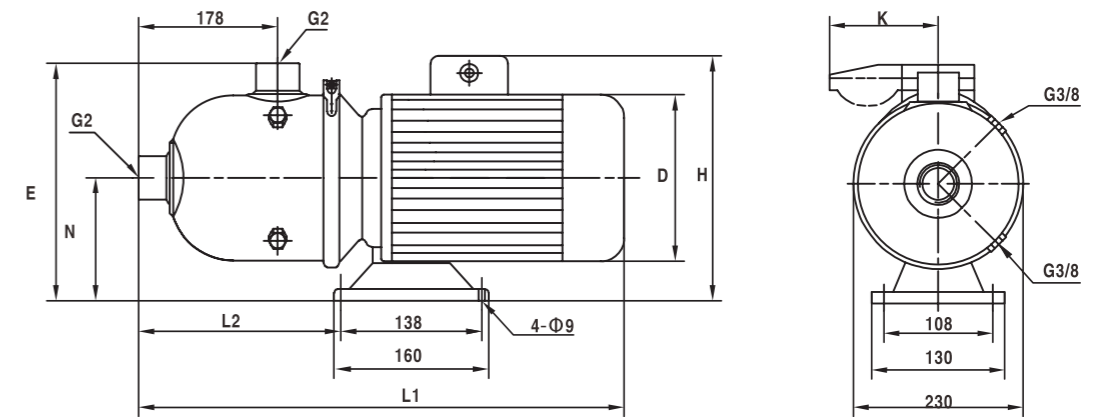


● Performance table

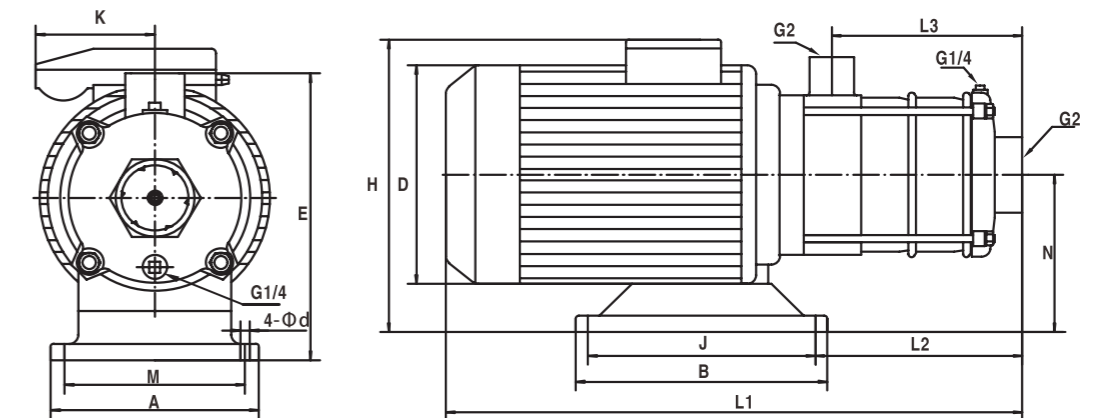
| MODEL | POWER (kW) | Q (m³/h) | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 |
|------------------------|------------|----------|------|------|----|------|------|------|----|------|
| CHL16-1 CHLF(T)16-1 | 1.1 | H (m) | 12.8 | 12.5 | 12 | 11.5 | 10.5 | 9.5 | 8 | 7 |
| CHL16-2 CHLF(T)16-2 | 2.2 | | 26 | 25 | 24 | 23 | 21.7 | 20 | 18 | 15.5 |
| CHL16-3 CHLF(T)16-3 | 3 | | 40 | 39 | 38 | 36 | 34 | 31.5 | 29 | 25 |
| CHL16-4 CHLF(T)16-4 | 4 | | 53.5 | 52 | 50 | 48 | 45 | 42 | 38 | 33.5 |

● Installation sketch

CHL16



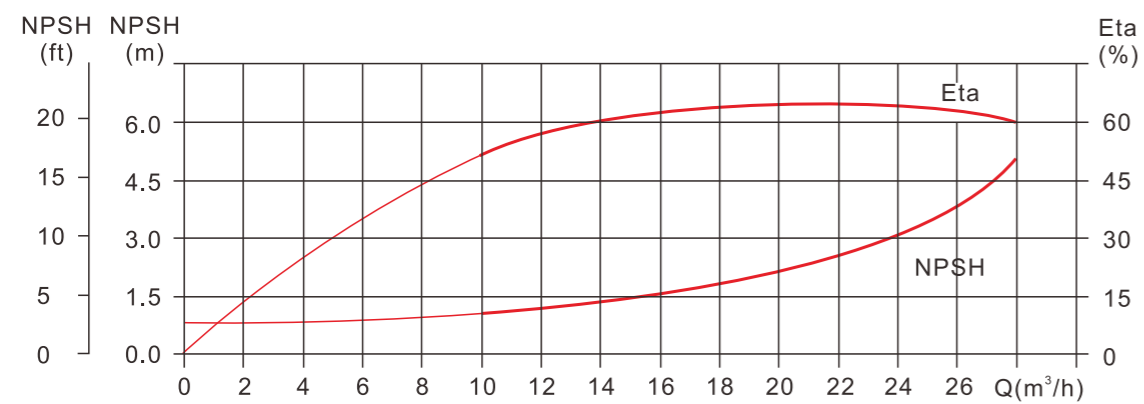
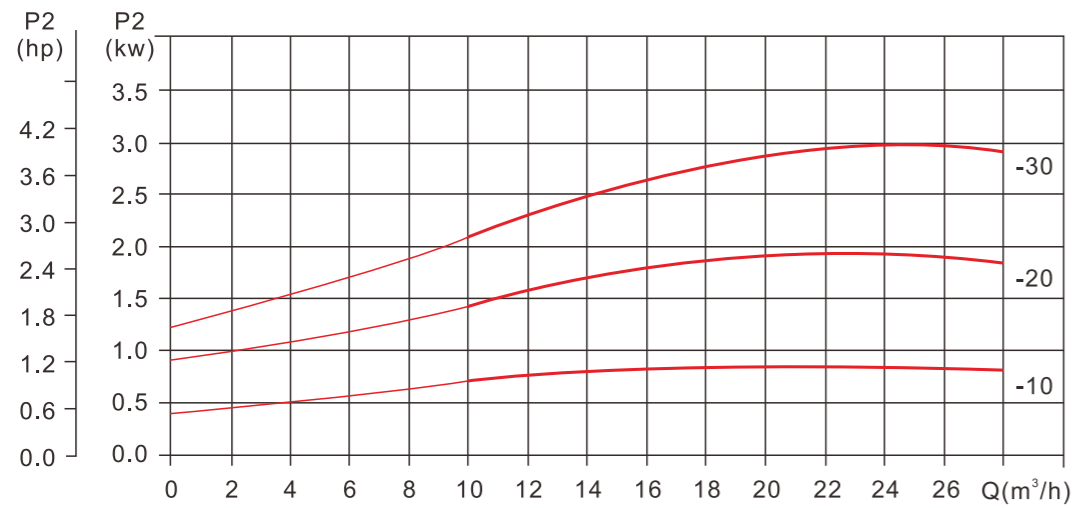
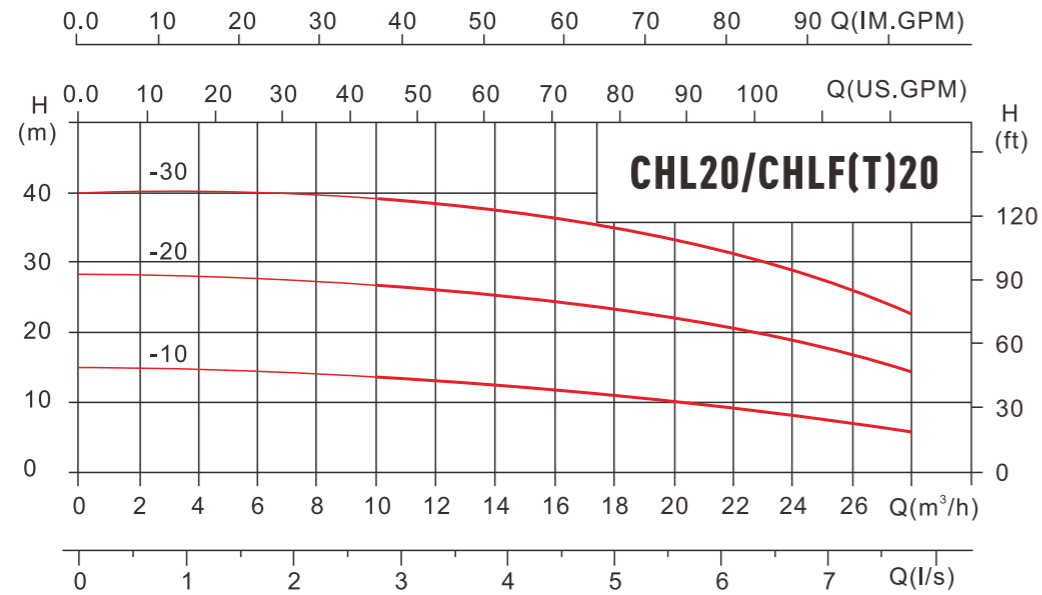
CHLF(T)16



CHL20/CHLF(T)20, 50Hz

● Performance curve

2900rpm

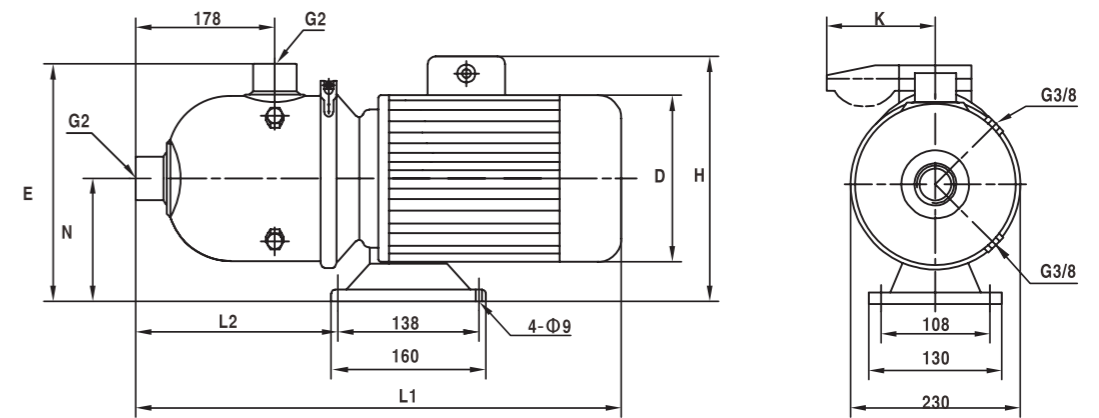


● Performance table

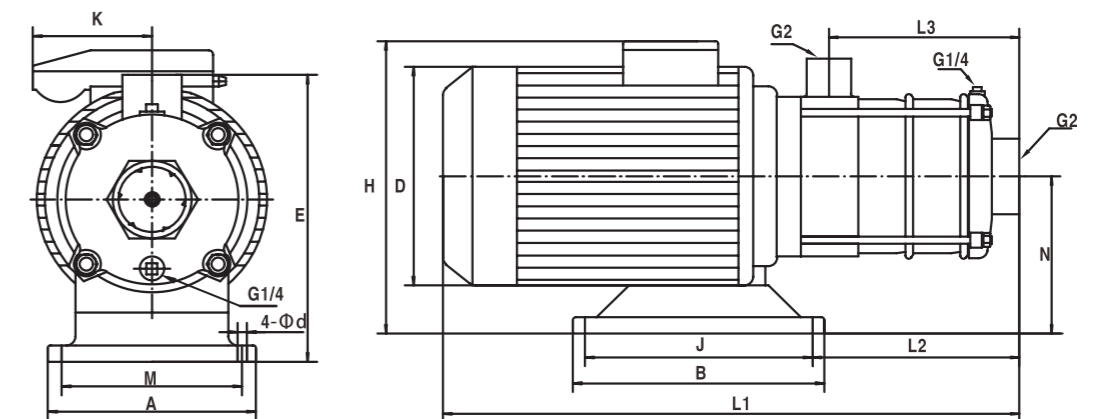
| Model | Driving motor | | Q (m³/h) | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 |
|------------------------|---------------|------|----------|-------|------|------|------|------|----|------|------|----|------|
| | (kw) | (hp) | | H (m) | | | | | | | | | |
| CHL20-1 CHLF(T)20-1 | 1.1 | 1.6 | H (m) | 13.5 | 13 | 12.5 | 12 | 11 | 10 | 9 | 8 | 7 | 6 |
| CHL20-2 CHLF(T)20-2 | 2.2 | 3 | | 27 | 26.5 | 25.5 | 25 | 23.5 | 22 | 20.5 | 18.5 | 17 | 14.5 |
| CHL20-3 CHLF(T)20-3 | 4 | 5.5 | | 39.5 | 39 | 38 | 37.5 | 35.5 | 34 | 31.5 | 29 | 26 | 23 |

● Installation sketch

CHL20



CHLF(T)20



CHM STAINLESS STEEL HORIZONTAL MULTI-STAGE CENTRIFUGAL PUMP



Applications and conditions

CHM is non-self-priming light horizontal multistage centrifugal pump (abbr. as pump in the following). They are efficient, low noise, little corrosive tolerance, compact structure, good looking, small volume, light weight, etc.

Applications

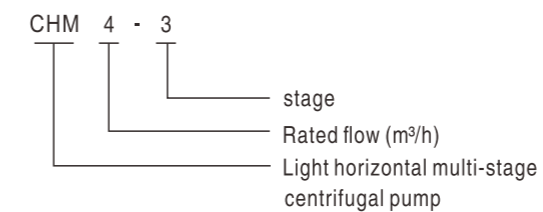
Pumped liquids: Low viscosity, neutral, non-explosive liquids, not containing solid particles or fibres. The liquid must not attack the pump materials chemically. (Oil or the liquid mainly consisted of oil can be pumped by special type of pumps);

- Circulation for air condition system;
- Cooling system;
- Water treatment, purification system;
- Industry cleaning system;
- Liquid transferring, circulation, boosting;
- Hot or cold water;
- Feed proportioning system of food, drinking, agriculture, etc.

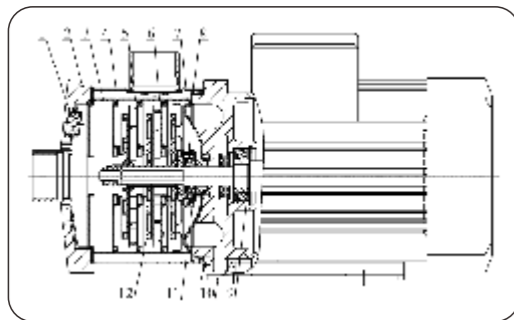
Operation conditions

- Liquid temperature: Normal temperature type - 15 °C ~+700°C ; Hot water type -15 °C~+110 °C ;
 - Flow range: 0.5~28m³/h;
 - Max pressure: 10 bar;
 - Liquid pH range: pH5~9;
 - Max ambient temperature: +40°C;
 - The Max suction pressure is limited by max operating pressure;
 - Min inlet pressure: Refer to CHL catalogue.
- Caution: When pumping liquids with a density and/or viscosity higher than that of water, use motors with correspondingly higher outputs, if required.

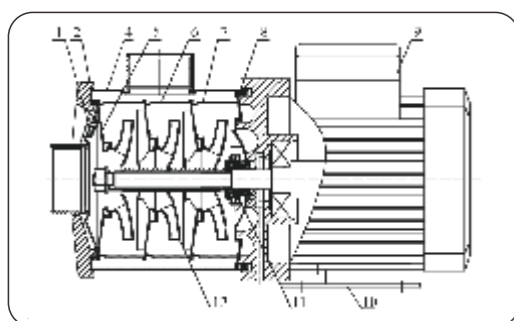
Definition of Model



Section drawing CHM1/2/4:



Section drawing CHM8/12/16/20:



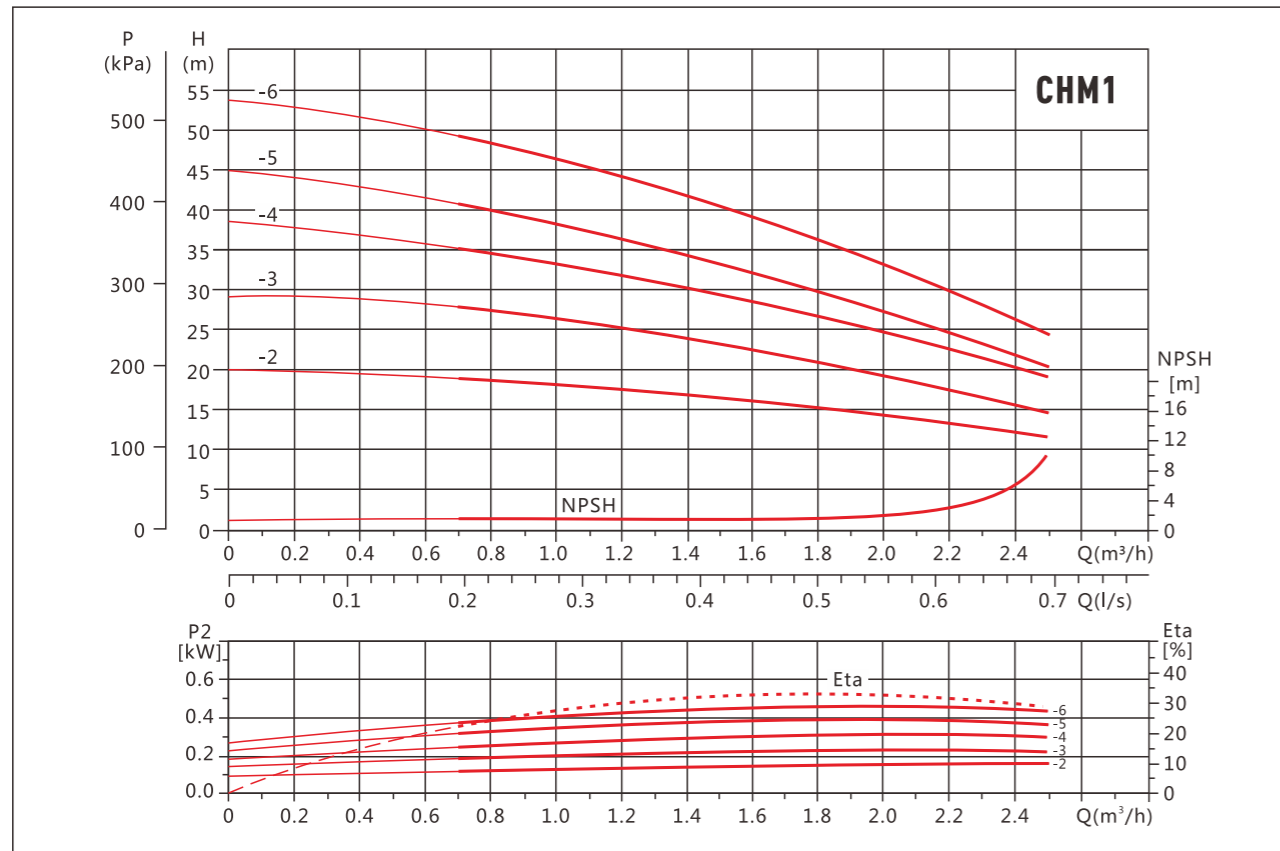
Material:

| Number | Name | Material | AISI/ASTM |
|--------|----------------------|-----------------|-------------|
| 1 | Plug | Stainless steel | SS-304N2-33 |
| 2 | Clamp plate | Aluminum alloy | ASTM383.1 |
| 3 | Inletsectional | Stainless steel | AISI304 |
| 4 | Inlet/Outlet section | Stainless steel | AISI304 |
| 5 | Inducer | Stainless steel | AISI304 |
| 6 | Guide vane | Stainless steel | AISI304 |
| 7 | Discharge diffuser | Stainless steel | AISI304 |
| 8 | Seal base | Stainless steel | AISI304 |
| 9 | Motor | | |
| 10 | Base frame | Steel | AISI015 |
| 11 | Mechanical seal | | |
| 12 | Impeller | Stainless steel | AISI304 |

CHM1/2, 50Hz

● Performance curve

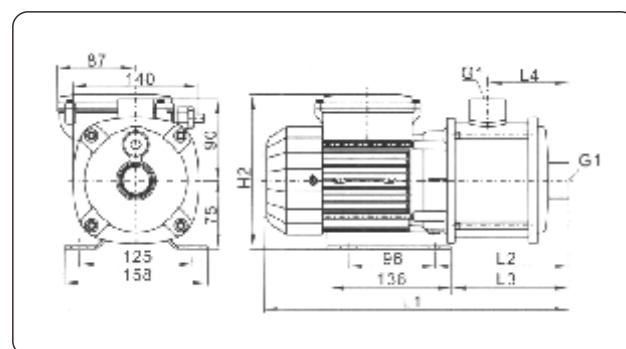
2900rpm



● Performance table

| Model | Driving motor P ₂ (kW) | Q (m³/h) | H (m) | | | | | | | | | | |
|--------|-----------------------------------|----------|-------|------|------|-----|------|------|-----|-----|-----|-----|-----|
| | | | 0.4 | 0.6 | 0.8 | 1.0 | 1.2 | 1.4 | 1.6 | 1.8 | 2.0 | 2.2 | 2.4 |
| CHM1-2 | 0.25 | H (m) | 19.5 | 19 | 18.5 | 18 | 17.5 | 17 | 16 | 15 | 14 | 13 | 12 |
| CHM1-3 | 0.25 | | 29 | 28.5 | 26 | 25 | 24.5 | 23.5 | 22 | 21 | 19 | 17 | 16 |
| CHM1-4 | 0.37 | | 37 | 36 | 35 | 33 | 32 | 30 | 28 | 27 | 26 | 22 | 20 |
| CHM1-5 | 0.37 | | 43 | 42 | 41 | 38 | 36 | 34 | 32 | 29 | 27 | 25 | 22 |
| CHM1-6 | 0.37 | | 51 | 50 | 49 | 46 | 44 | 42 | 40 | 36 | 32 | 30 | 26 |

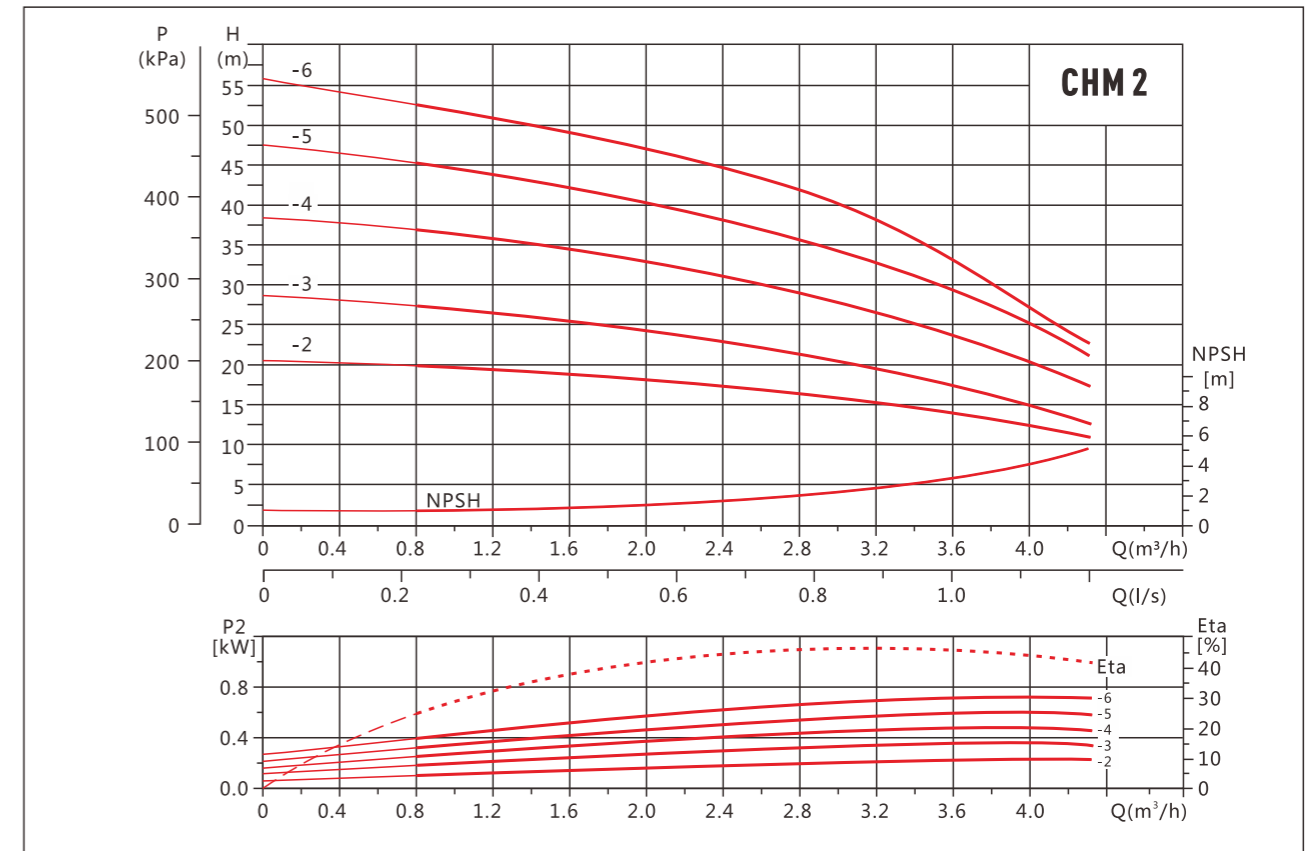
● Installation sketch



| Model | Dimensions(mm) | | | | | | Weight (kg) |
|--------|----------------|-------------|-----|-----|-----|-----|-------------|
| | Single phase | Three phase | L1 | L2 | L3 | L4 | |
| | H2 | | | | | | |
| CHM1-2 | 170 | 174 | 318 | 131 | 113 | 72 | 7.6 |
| CHM1-3 | 170 | 174 | 318 | 131 | 113 | 72 | 8.0 |
| CHM1-4 | 170 | 174 | 336 | 149 | 131 | 90 | 8.3 |
| CHM1-5 | 170 | 174 | 354 | 167 | 149 | 108 | 8.6 |
| CHM1-6 | 170 | 174 | 390 | 203 | 185 | 144 | 9 |

● Performance curve

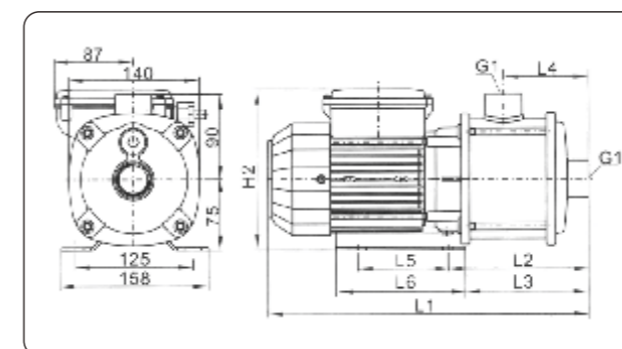
2900rpm



● Performance table

| Model | Driving motor P ₂ (kW) | Q (m³/h) | H (m) | | | | | | | | | |
|--------|-----------------------------------|----------|-------|------|------|-----|-----|------|------|------|-----|--|
| | | | 0.8 | 1.2 | 1.6 | 2.0 | 2.4 | 2.8 | 3.2 | 3.6 | 4.0 | |
| CHM2-2 | 0.25 | H (m) | 19.5 | 19 | 18.5 | 18 | 17 | 16.5 | 14.5 | 13.5 | 12 | |
| CHM2-3 | 0.37 | | 27 | 26 | 25 | 24 | 23 | 22 | 20 | 17 | 15 | |
| CHM2-4 | 0.55 | | 36 | 35 | 34 | 32 | 31 | 29 | 27 | 23 | 20 | |
| CHM2-5 | 0.55 | | 44 | 43 | 42 | 40 | 38 | 36 | 33 | 28.5 | 24 | |
| CHM2-6 | 0.75 | | 53 | 51.5 | 49 | 47 | 44 | 41 | 37 | 32 | 27 | |

● Installation sketch

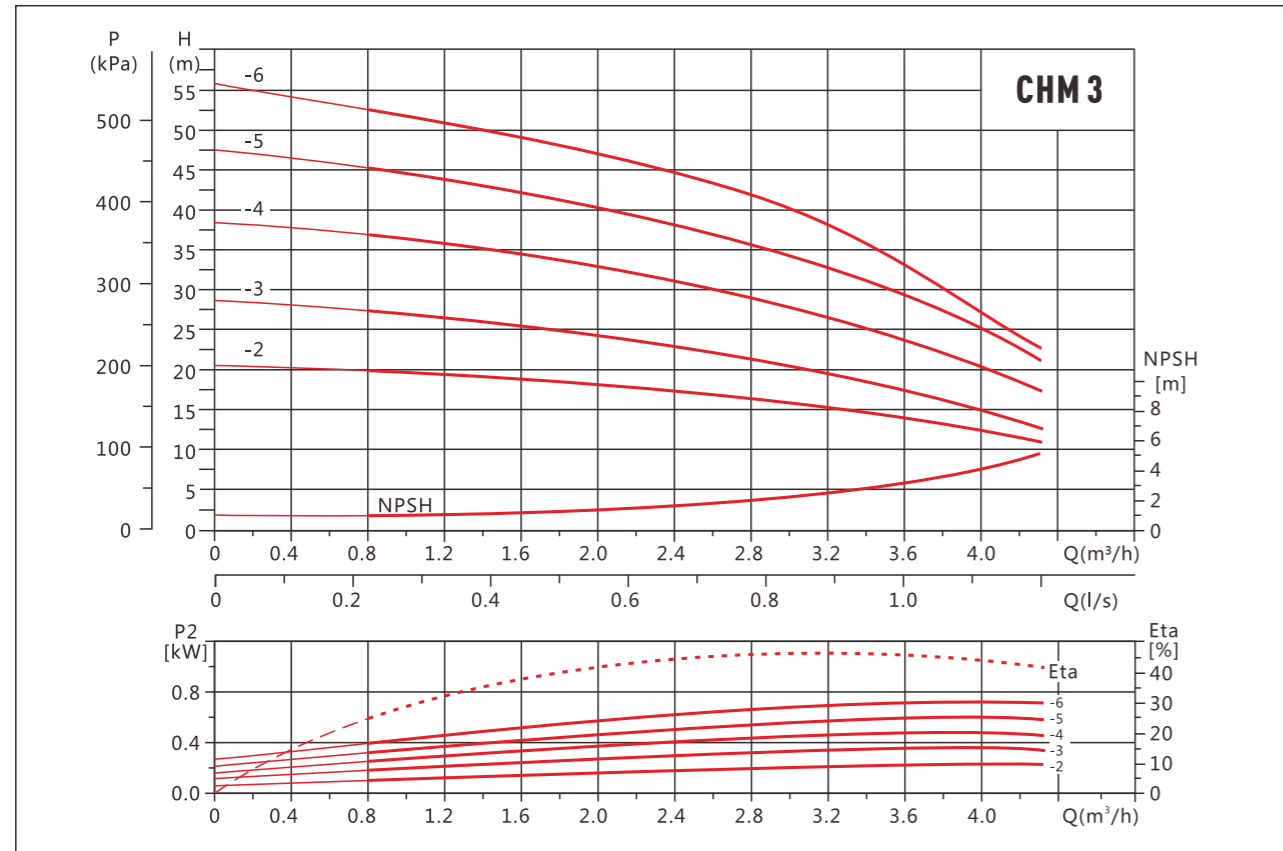


| Model | Dimensions(mm) | | | | | | Weight (kg) | | |
|-----------|----------------|-------------|-----|-----|-----|-----|-------------|-----|------|
| | Single phase | Three phase | L1 | L2 | L3 | L4 | | | |
| | H2 | | | | | | | | |
| CHM2-2(T) | 170 | 174 | 318 | 131 | 113 | 72 | 96 | 136 | 7.4 |
| CHM2-3(T) | 170 | 174 | 318 | 131 | 113 | 72 | 96 | 136 | 7.5 |
| CHM2-4(T) | 170 | 174 | 336 | 149 | 131 | 90 | 96 | 136 | 10 |
| CHM2-5(T) | 170 | 174 | 383 | 167 | 143 | 108 | 96 | 136 | 10.5 |
| CHM2-6(T) | 170 | 188 | 416 | 203 | 179 | 144 | 96 | 155 | 12 |

CHM3/4, 50Hz

● Performance curve

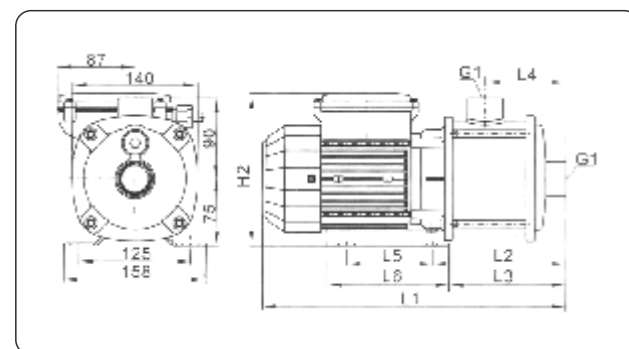
2900rpm



● Performance table

| Model | Driving motor P ₂ (kW) | Q (m ³ /h) | 0.8 | 1.2 | 1.6 | 2.0 | 2.4 | 2.8 | 3.0 | 3.2 | 3.6 | 4.0 |
|--------|-----------------------------------|-----------------------|------|------|------|-----|-----|------|-----|------|------|-----|
| CHM3-2 | 0.25 | H (m) | 19.5 | 19 | 18.5 | 18 | 17 | 16.5 | 15 | 14.5 | 13.5 | 12 |
| CHM3-3 | 0.37 | | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 17 | 15 |
| CHM3-4 | 0.55 | | 36 | 35 | 34 | 32 | 31 | 29 | 28 | 27 | 23 | 20 |
| CHM3-5 | 0.55 | | 44 | 43 | 42 | 40 | 38 | 36 | 34 | 33 | 28.5 | 24 |
| CHM3-6 | 0.75 | | 53 | 51.5 | 49 | 47 | 44 | 41 | 38 | 37 | 32 | 27 |

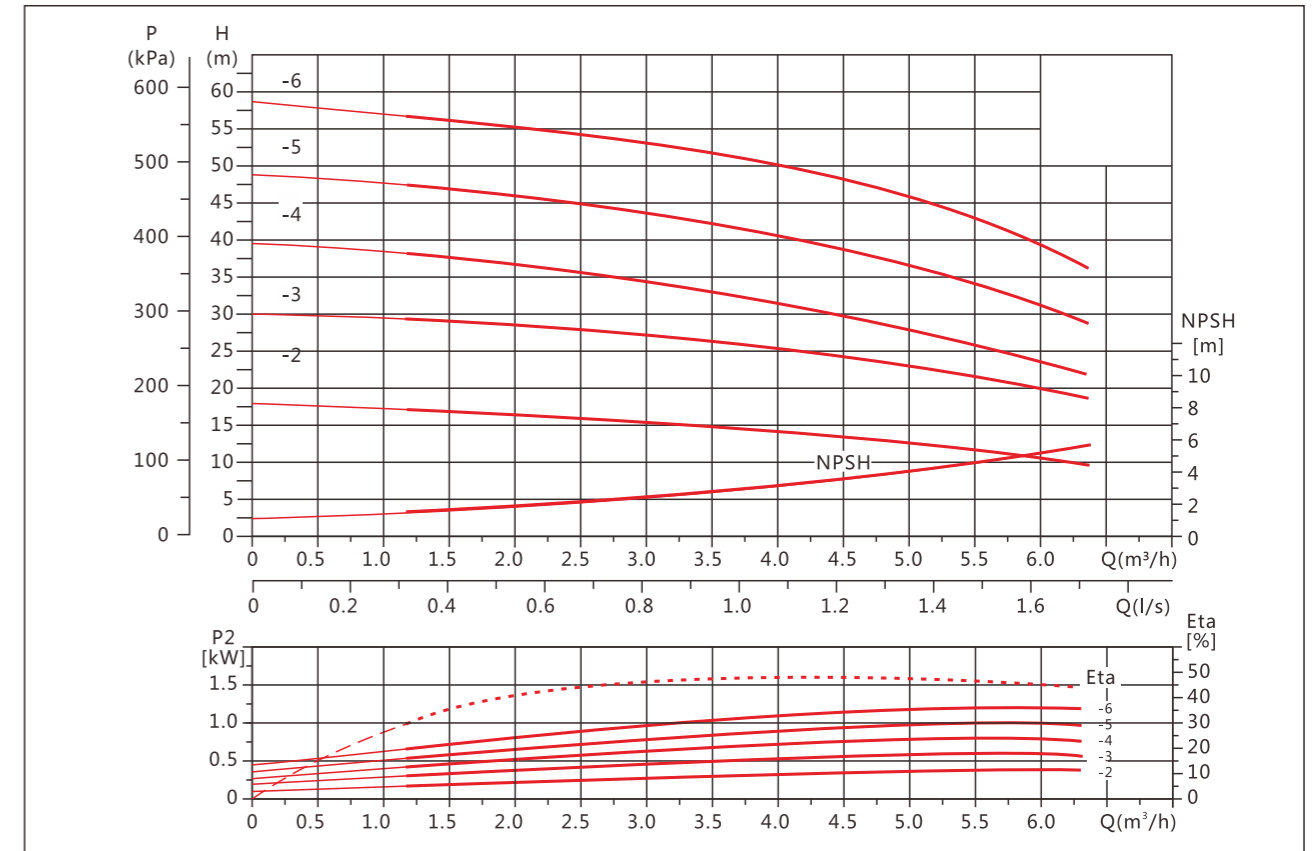
● Installation sketch



| Model | Dimensions(mm) | | | | | | | | Weight (kg) |
|--------|----------------|-------------|-----|-----|-----|-----|----|-----|-------------|
| | Single phase | Three phase | L1 | L2 | L3 | L4 | L5 | L6 | |
| CHM3-2 | 170 | 174 | 318 | 131 | 113 | 72 | 96 | 136 | 7.4 |
| CHM3-3 | 170 | 174 | 318 | 131 | 113 | 72 | 96 | 136 | 7.5 |
| CHM3-4 | 170 | 174 | 336 | 149 | 131 | 90 | 96 | 136 | 10 |
| CHM3-5 | 170 | 174 | 383 | 167 | 143 | 108 | 96 | 136 | 10.5 |
| CHM3-6 | 170 | 188 | 416 | 203 | 179 | 144 | 96 | 155 | 12 |

● Performance curve

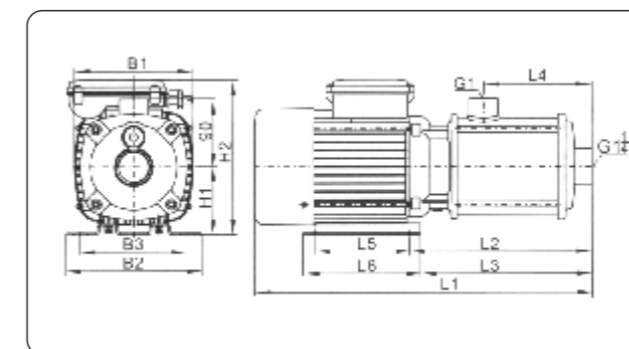
2900rpm



● Performance table

| Model | Driving motor P ₂ (kW) | Q (m ³ /h) | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 |
|--------|-----------------------------------|-----------------------|------|------|------|-----|------|------|-----|------|-----|-----|-----|
| CHM4-2 | 0.37 | H (m) | 18.5 | 18 | 17.5 | 17 | 16 | 15.5 | 15 | 13.5 | 13 | 11 | 10 |
| CHM4-3 | 0.55 | | 29 | 28.5 | 28 | 27 | 26.5 | 25.5 | 25 | 23 | 22 | 20 | 18 |
| CHM4-4 | 0.75 | | 38 | 37 | 36 | 34 | 33.5 | 32 | 30 | 28 | 27 | 24 | 20 |
| CHM4-5 | 1.0 | | 47 | 46 | 45 | 44 | 42.5 | 41 | 40 | 36 | 35 | 32 | 27 |
| CHM4-6 | 1.3 | | 56.5 | 55 | 54 | 53 | 52.5 | 51 | 49 | 45 | 44 | 42 | 36 |

● Installation sketch

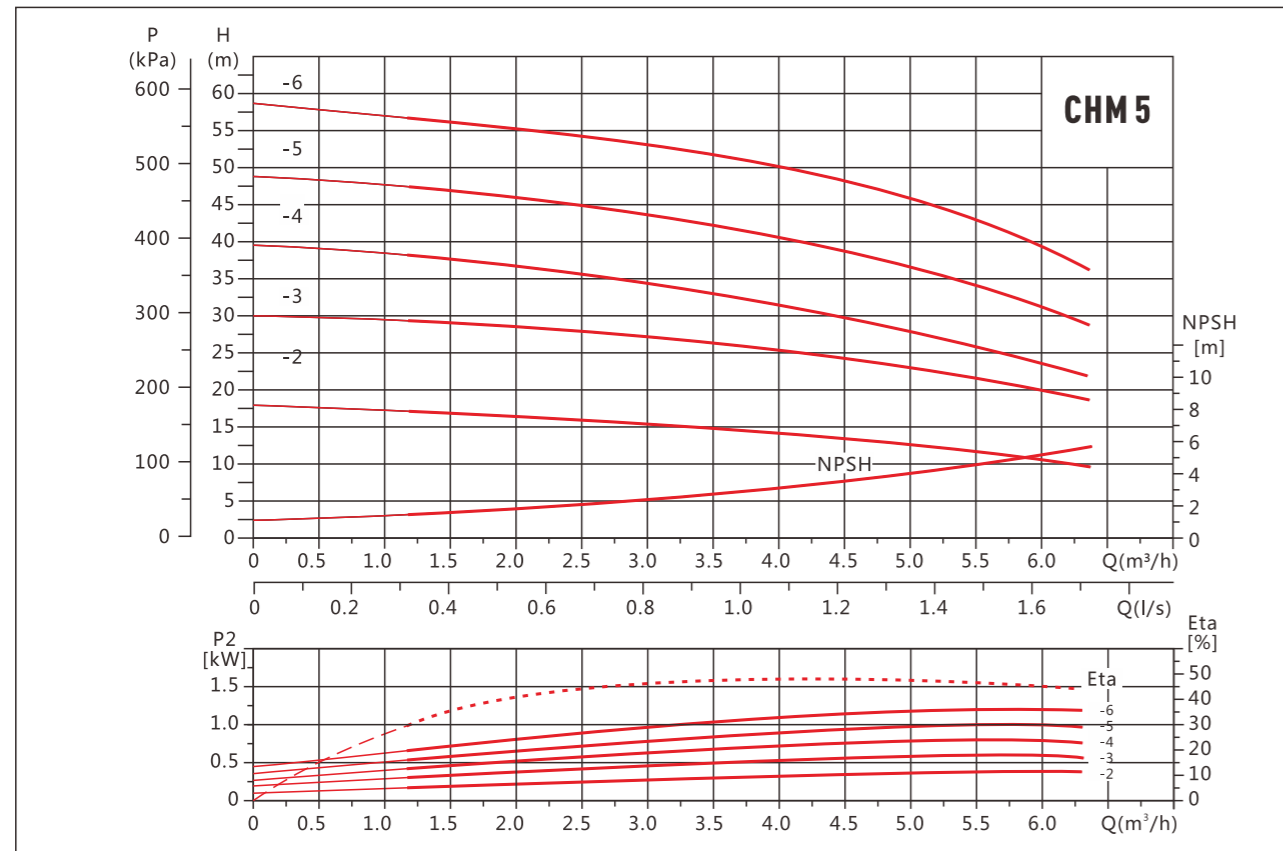


| Model | Dimensions(mm) | | | | | | | | | | | | Weight (kg) | |
|--------|----------------|-----|-----|----|--------------|-------------|-----|-----|-----|-----|-----|-----|-------------|------|
| | B1 | B2 | B3 | H1 | Single phase | Three phase | L2 | L3 | L4 | L5 | L6 | | | |
| CHM4-2 | 140 | 158 | 125 | 75 | 170 | 318 | 174 | 318 | 131 | 113 | 72 | 96 | 136 | 8.0 |
| CHM4-3 | 140 | 158 | 125 | 75 | 170 | 347 | 174 | 318 | 131 | 113 | 72 | 96 | 136 | 10 |
| CHM4-4 | 140 | 158 | 125 | 75 | 182 | 362 | 188 | 362 | 149 | 125 | 90 | 96 | 155 | 11.5 |
| CHM4-5 | 140 | 158 | 125 | 75 | 182 | 380 | 188 | 380 | 167 | 143 | 108 | 96 | 155 | 12.5 |
| CHM4-6 | 155 | 178 | 140 | 90 | 209 | 446 | 211 | 446 | 243 | 228 | 144 | 125 | 155 | 15 |

CHM5/10, 50Hz

● Performance curve

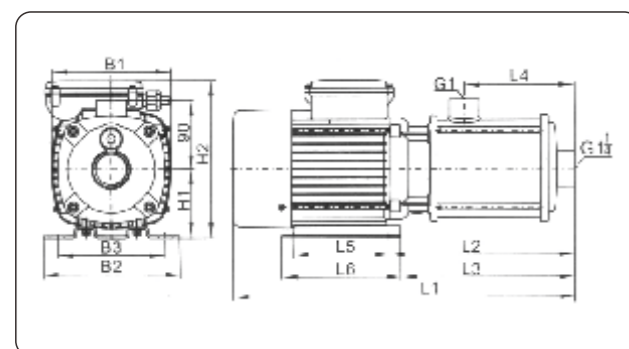
2900rpm



● Performance table

| Model | Driving motor P ₂ (kW) | Q (m ³ /h) | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 |
|--------|-----------------------------------|-----------------------|------|------|------|-----|------|------|-----|------|-----|-----|-----|
| CHM5-2 | 0.37 | H (m) | 18.5 | 18 | 17.5 | 17 | 16 | 15.5 | 15 | 13.5 | 13 | 11 | 10 |
| CHM5-3 | 0.55 | | 29 | 28.5 | 28 | 27 | 26.5 | 25.5 | 25 | 23 | 22 | 20 | 18 |
| CHM5-4 | 0.75 | | 38 | 37 | 36 | 34 | 33.5 | 32 | 30 | 28 | 27 | 24 | 20 |
| CHM5-5 | 1.0 | | 47 | 46 | 45 | 44 | 42.5 | 41 | 40 | 36 | 35 | 32 | 27 |
| CHM5-6 | 1.3 | | 56.5 | 55 | 54 | 53 | 52.5 | 51 | 49 | 45 | 44 | 42 | 36 |

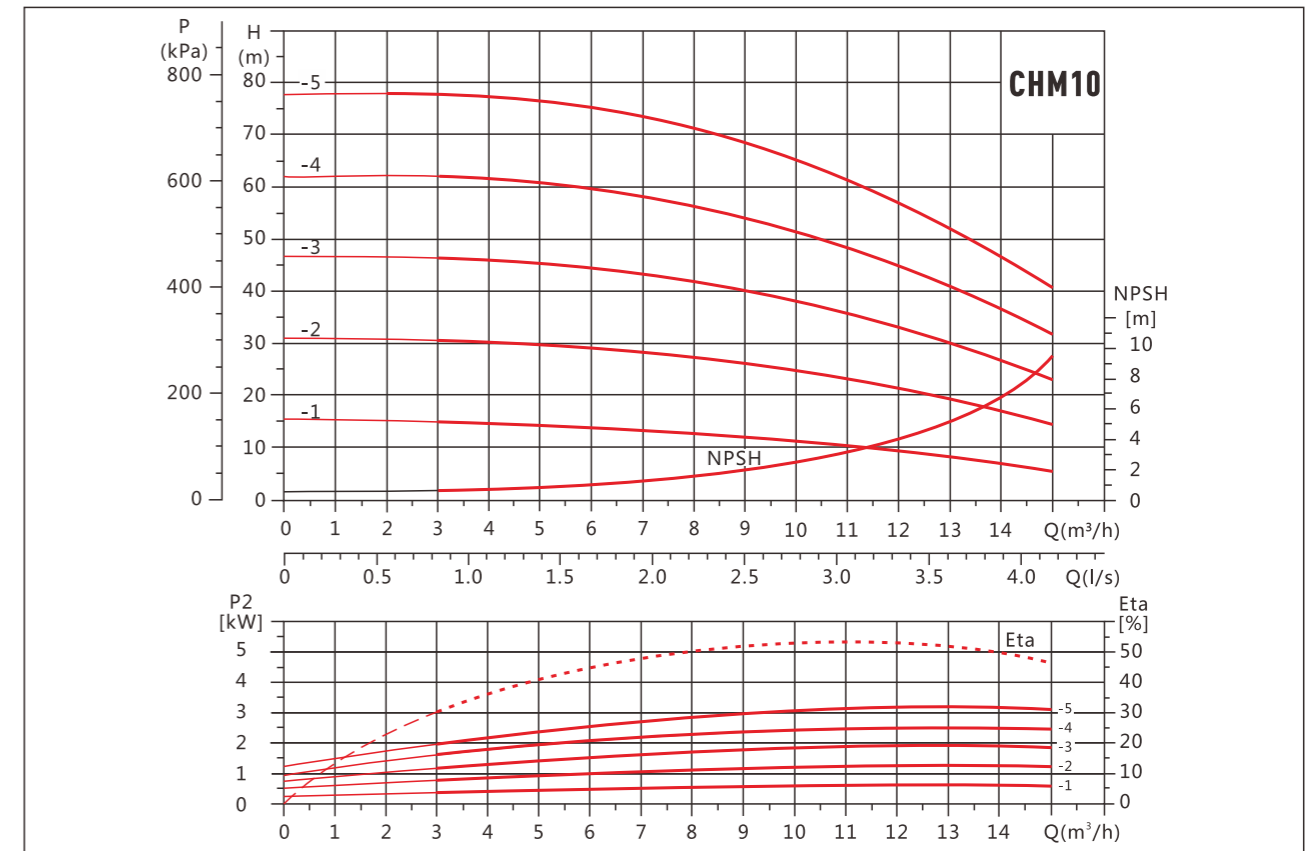
● Installation sketch



| Model | Dimensions(mm) | | | | | | | | | | | Weight (kg) | | |
|--------|----------------|-----|-----|----|--------------|-----|-------------|-----|-----|-----|-----|-------------|-----|------|
| | B1 | B2 | B3 | H1 | Single phase | | Three phase | | L2 | L3 | L4 | | L5 | L6 |
| CHM5-2 | 140 | 158 | 125 | 75 | 170 | 318 | 174 | 318 | 131 | 113 | 72 | 96 | 136 | 8.0 |
| CHM5-3 | 140 | 158 | 125 | 75 | 170 | 347 | 174 | 318 | 131 | 113 | 72 | 96 | 136 | 10 |
| CHM5-4 | 140 | 158 | 125 | 75 | 182 | 362 | 188 | 362 | 149 | 125 | 90 | 96 | 155 | 11.5 |
| CHM5-5 | 140 | 158 | 125 | 75 | 182 | 380 | 188 | 380 | 167 | 143 | 108 | 96 | 155 | 12.5 |
| CHM5-6 | 155 | 178 | 140 | 90 | 209 | 446 | 211 | 446 | 243 | 228 | 144 | 125 | 155 | 15 |

● Performance curve

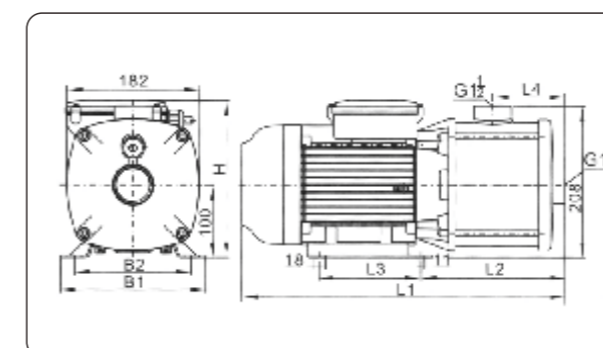
2900rpm



● Performance table

| Model | Driving motor P ₂ (kW) | Q (m ³ /h) | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---------|-----------------------------------|-----------------------|------|------|------|----|------|----|----|----|----|----|----|
| CHM10-1 | 0.65 | H (m) | 14.5 | 14 | 13.5 | 13 | 12.5 | 12 | 11 | 10 | 9 | 8 | 7 |
| CHM10-2 | 1.2 | | 30 | 29.5 | 29 | 28 | 27 | 26 | 24 | 23 | 21 | 19 | 16 |
| CHM10-3 | 2.2 | | 45.5 | 45 | 44 | 43 | 42 | 40 | 38 | 36 | 33 | 30 | 26 |
| CHM10-4 | 3.0 | | 61 | 60.5 | 60 | 58 | 56 | 54 | 52 | 48 | 45 | 41 | 36 |
| CHM10-5 | 3.0 | | 76.5 | 76 | 75 | 74 | 71 | 68 | 63 | 61 | 57 | 52 | 46 |

● Installation sketch

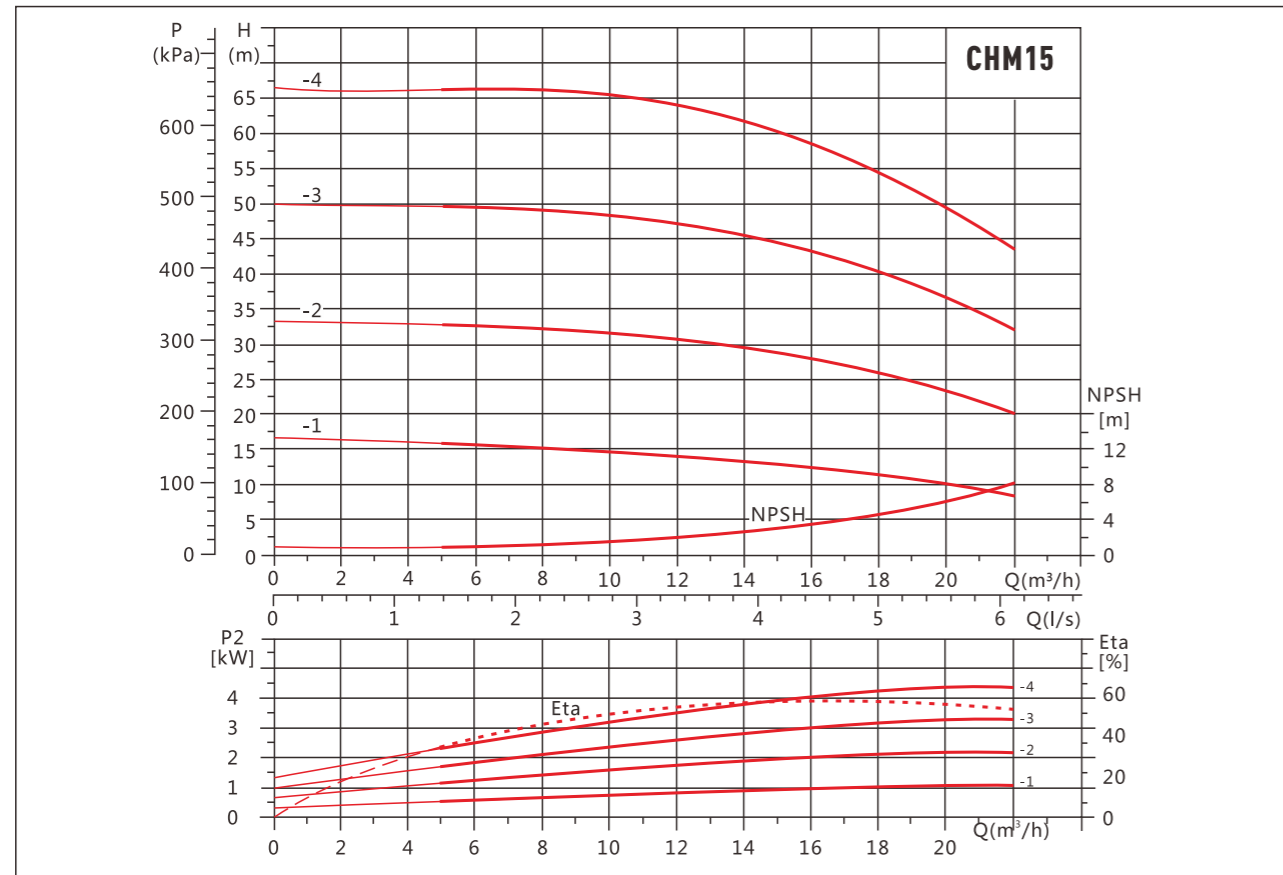


| Model | Dimensions(mm) | | | | | | | | Weight (kg) |
|---------|----------------|-----|-----|-----|-----|-----|----------------|---------------|-------------|
| | B1 | B2 | L1 | L2 | L3 | L4 | Single phase H | Three phase H | |
| CHM10-1 | 158 | 125 | 383 | 185 | 96 | 100 | 206 | 212 | 10 |
| CHM10-2 | 158 | 125 | 412 | 200 | 96 | 100 | 214 | 217 | 12 |
| CHM10-3 | 199 | 160 | 448 | 200 | 140 | 100 | 244 | 212 | 22 |
| CHM10-4 | 199 | 160 | 498 | 230 | 140 | 130 | — | 212 | 25 |
| CHM10-5 | 199 | 160 | 558 | 290 | 140 | 190 | — | 212 | 26 |

CHM15/25, 50Hz

● Performance curve

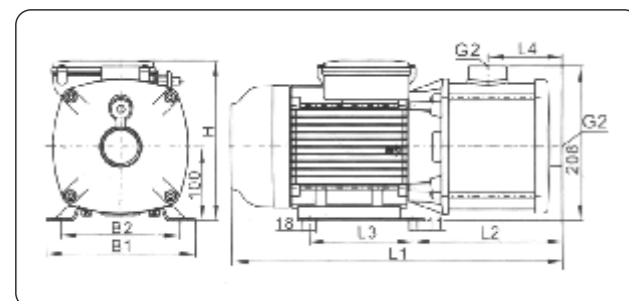
2900rpm



● Performance table

| Model | Driving motor P ₂ (kW) | Q (m³/h) | 6 | 8 | 10 | 12 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---------|-----------------------------------|----------|------|------|------|------|------|----|------|----|----|------|----|
| CHM15-1 | 1.2 | H (m) | 15.5 | 15 | 14.5 | 14 | 13 | 12 | 11.5 | 11 | 11 | 10.5 | 10 |
| CHM15-2 | 2.2 | | 32 | 31.5 | 31 | 30.5 | 29.5 | 29 | 28 | 27 | 26 | 24 | 22 |
| CHM15-3 | 4.0 | | 49 | 48 | 47.5 | 47 | 46 | 44 | 43 | 42 | 40 | 37 | 36 |
| CHM15-4 | 5.5 | | 67 | 66 | 65 | 64 | 62 | 61 | 57 | 56 | 54 | 52 | 49 |

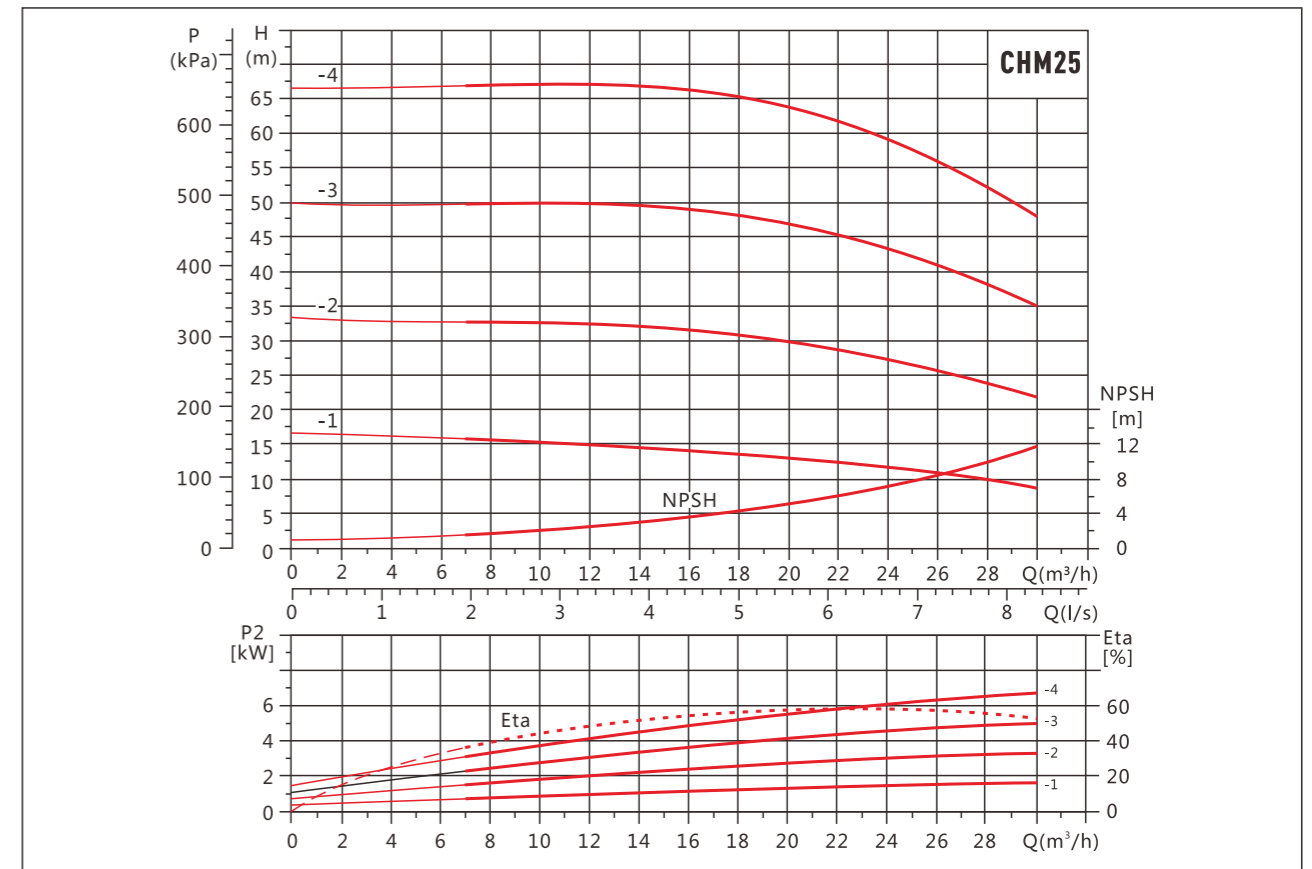
● Installation sketch



| Model | Dimensions(mm) | | | | | | | | Weight (kg) |
|---------|----------------|-----|-----|-----|-----|-----|----------------|---------------|-------------|
| | B1 | B2 | L1 | L2 | L3 | L4 | Single phase H | Three phase H | |
| CHM15-1 | 158 | 125 | 412 | 200 | 96 | 100 | 214 | 217 | 12 |
| CHM15-2 | 199 | 160 | 448 | 200 | 140 | 100 | 244 | 212 | 21 |
| CHM15-3 | 199 | 160 | 510 | 235 | 140 | 100 | — | 260 | 29 |
| CHM15-4 | 228 | 190 | 590 | 288 | 140 | 130 | — | 296 | 35 |

● Performance curve

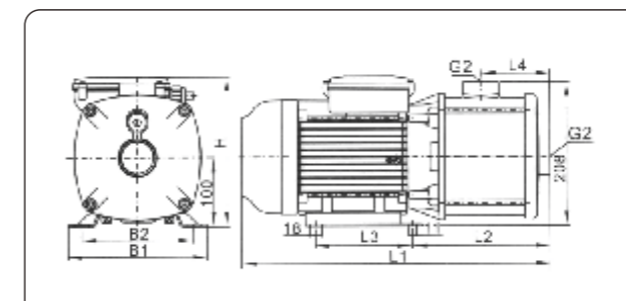
2900rpm



● Performance table

| Model | Driving motor P ₂ (kW) | Q (m³/h) | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 |
|---------|-----------------------------------|----------|------|------|----|------|----|------|----|----|------|----|----|
| CHM25-1 | 2.2 | H (m) | 15.5 | 15 | 15 | 14.5 | 14 | 13.5 | 13 | 12 | 11.5 | 11 | 10 |
| CHM25-2 | 4.0 | | 33 | 32.5 | 32 | 31.5 | 31 | 30.5 | 30 | 28 | 27 | 26 | 24 |
| CHM25-3 | 5.5 | | 50 | 50 | 40 | 49 | 48 | 47 | 46 | 45 | 43 | 41 | 38 |
| CHM25-4 | 7.5 | | 66 | 66 | 66 | 66 | 66 | 65 | 64 | 62 | 58 | 56 | 52 |

● Installation sketch

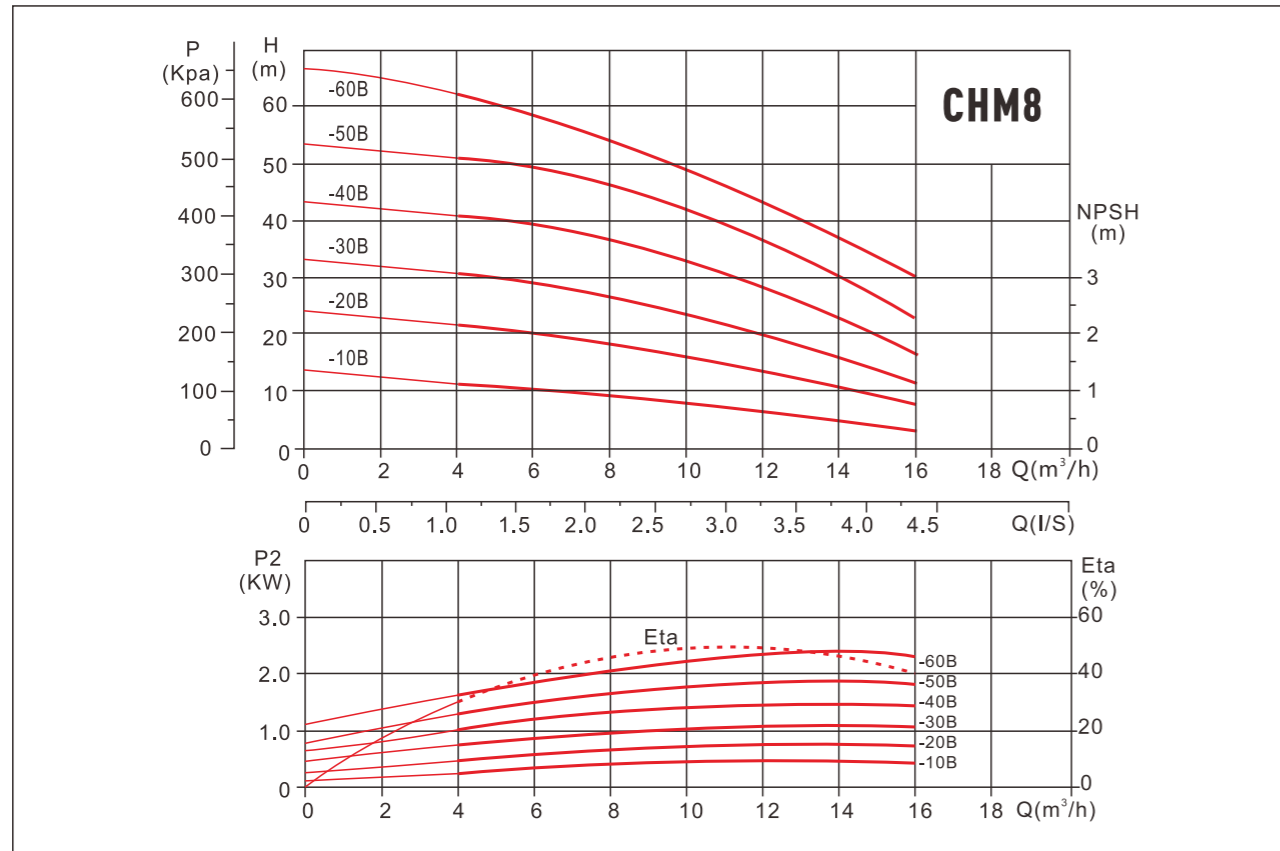


| Model | Dimensions(mm) | | | | | | | | Weight (kg) |
|---------|----------------|-----|-----|-----|-----|-----|----------------|---------------|-------------|
| | B1 | B2 | L1 | L2 | L3 | L4 | Single phase H | Three phase H | |
| CHM25-1 | 199 | 160 | 448 | 200 | 140 | 100 | 244 | 217 | 21 |
| CHM25-2 | 199 | 160 | 510 | 235 | 140 | 100 | — | 260 | 29 |
| CHM25-3 | 228 | 190 | 560 | 235 | 140 | 100 | — | 295 | 35 |
| CHM25-4 | 228 | 190 | 620 | 288 | 140 | 130 | — | 295 | 38 |

CHM8/8-B, 50Hz

● Performance curve

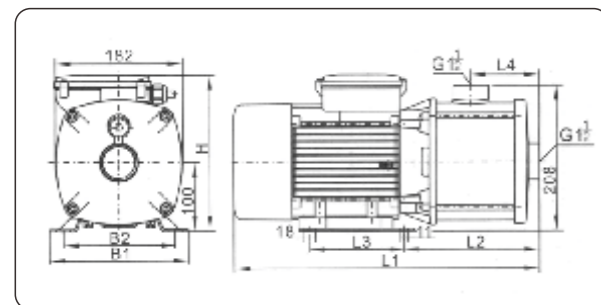
2900rpm



● Performance table

| Model | Driving motor P ₂ (kW) | Q (m³/h) | 4.0 | 6.0 | 8.0 | 10 | 12 | 14 | 16 |
|--------|-----------------------------------|----------|-----|-----|------|----|----|----|----|
| CHM8-1 | 0.55 | H (m) | 11 | 10 | 9 | 8 | 7 | 6 | 5 |
| CHM8-2 | 0.75 | | 22 | 20 | 19 | 18 | 13 | 11 | 8 |
| CHM8-3 | 1.1 | | 31 | 29 | 26 | 24 | 20 | 16 | 11 |
| CHM8-4 | 1.5 | | 41 | 39 | 37 | 33 | 28 | 23 | 17 |
| CHM8-5 | 2.2 | | 51 | 49 | 46.5 | 42 | 37 | 30 | 23 |
| CHM8-6 | 3.0 | | 62 | 58 | 52 | 48 | 42 | 36 | 30 |

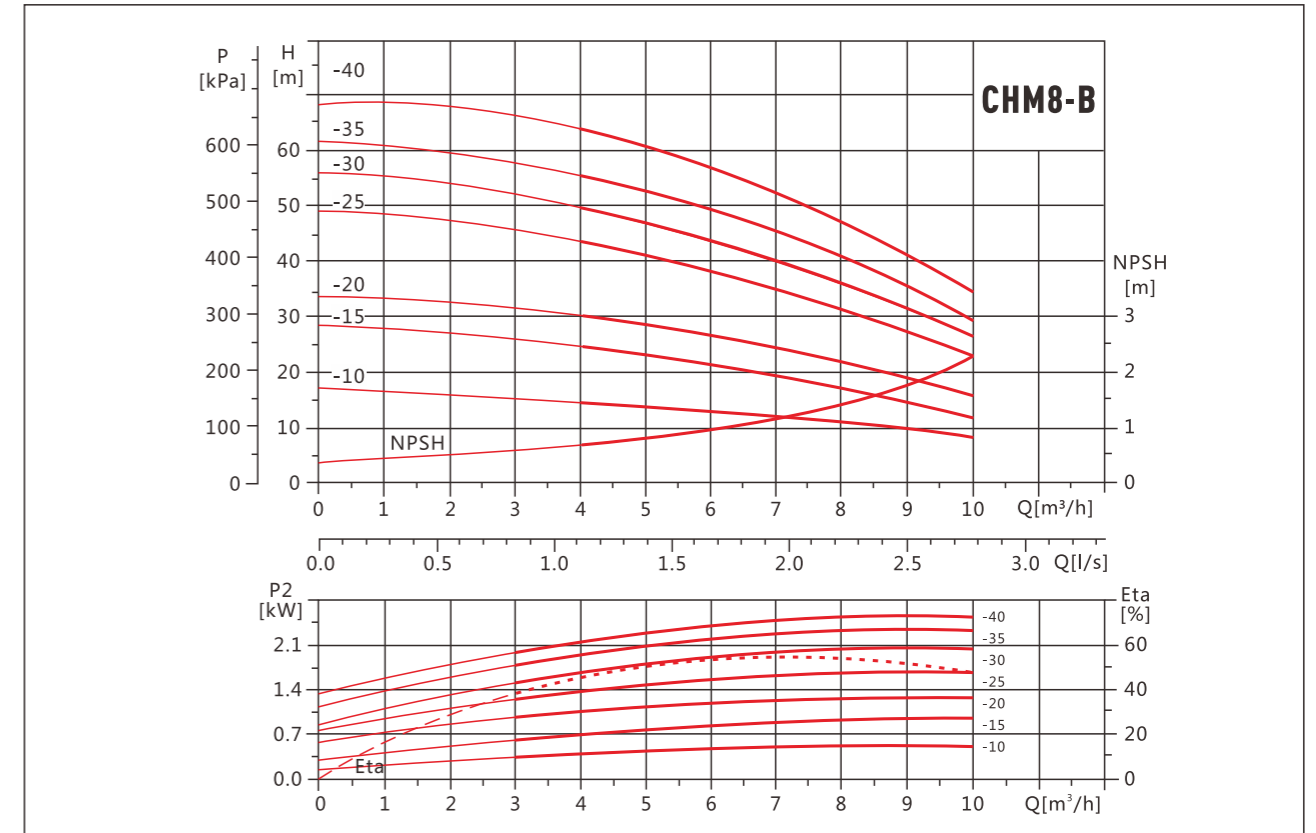
● Installation sketch



| Model | Dimensions(mm) | | | | | | | | | | | | L4 | Weight (kg) |
|--------|----------------|-----|-----|-----|-----|-----|-------------|-----|-----|-----|-----|-----|-----|-------------|
| | Single Phase | | | | | | Three Phase | | | | | | | |
| | B1 | B2 | L1 | L2 | L3 | H | B1 | B2 | L1 | L2 | L3 | H | | |
| CHM8-1 | 158 | 125 | 377 | 185 | 96 | 206 | 158 | 125 | 377 | 185 | 96 | 212 | 100 | 10 |
| CHM8-2 | 158 | 125 | 377 | 185 | 96 | 206 | 158 | 125 | 377 | 185 | 96 | 212 | 100 | 11 |
| CHM8-3 | 158 | 125 | 408 | 200 | 96 | 232 | 158 | 125 | 408 | 200 | 96 | 217 | 100 | 12 |
| CHM8-4 | 158 | 125 | 438 | 230 | 96 | 232 | 158 | 125 | 438 | 230 | 96 | 217 | 130 | 15 |
| CHM8-5 | 199 | 160 | 539 | 290 | 140 | 244 | 158 | 125 | 498 | 290 | 96 | 217 | 190 | 24 |
| CHM8-6 | — | — | — | — | — | — | 199 | 160 | 559 | 290 | 140 | 212 | 190 | 26 |

● Performance curve

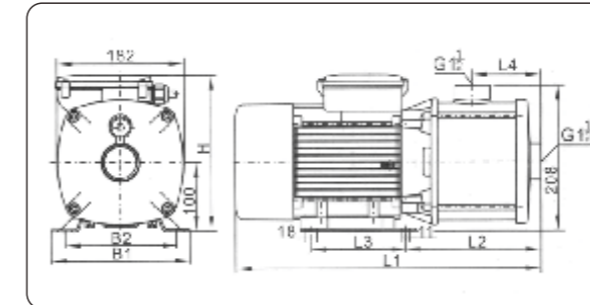
2900rpm



● Performance table

| Model | Driving motor P ₂ (kW) | Q (m³/h) | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10 |
|----------|-----------------------------------|----------|-----|------|-----|------|-----|-----|----|
| CHM8-10B | 0.55 | H (m) | 15 | 14 | 13 | 12.5 | 12 | 9 | 8 |
| CHM8-15B | 0.75 | | 25 | 23 | 22 | 21 | 20 | 14 | 12 |
| CHM8-20B | 1.0 | | 32 | 29 | 27 | 25 | 24 | 21 | 17 |
| CHM8-25B | 1.5 | | 43 | 40 | 38 | 34 | 27 | 25 | 20 |
| CHM8-30B | 1.85 | | 50 | 46 | 44 | 40 | 36 | 30 | 26 |
| CHM8-35B | 2.2 | | 56 | 51 | 48 | 44 | 43 | 35 | 28 |
| CHM8-40B | 2.2 | | 65 | 57.5 | 57 | 50 | 48 | 42 | 34 |

● Installation sketch

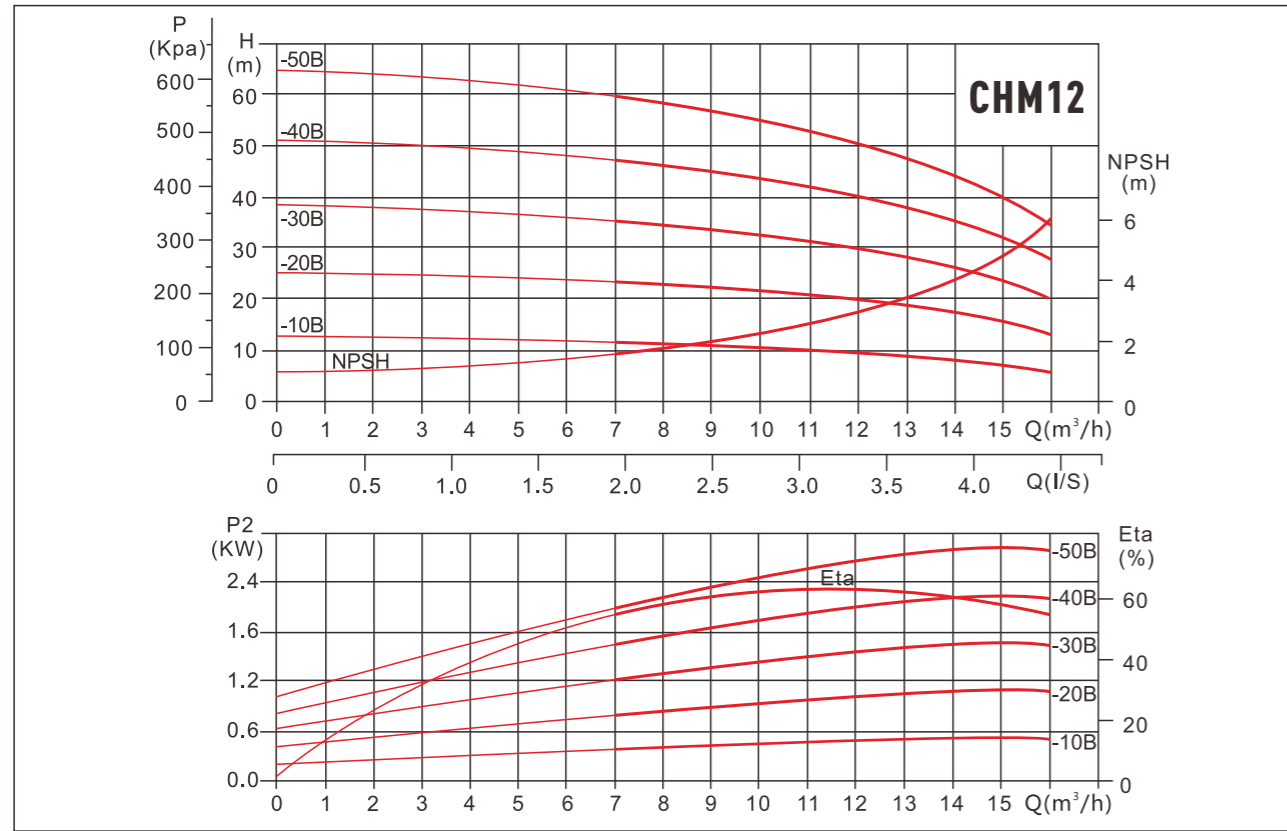


| Model | Dimensions(mm) | | | | | | | | | | | | L2 | L4 | Weight (kg) |
|----------|----------------|-----|-----|-----|-----|-----|-------------|-----|----|-----|-----|-----|----|----|-------------|
| | Single Phase | | | | | | Three Phase | | | | | | | | |
| | B1 | B2 | L1 | L3 | H | B1 | B2 | L1 | L3 | H | | | | | |
| CHM8-10B | 158 | 125 | 377 | 96 | 206 | 158 | 125 | 377 | 96 | 212 | 185 | 100 | 10 | | |
| CHM8-15B | 158 | 125 | 377 | 96 | 206 | 158 | 125 | 377 | 96 | 212 | 185 | 100 | 11 | | |
| CHM8-20B | 158 | 125 | 377 | 96 | 206 | 158 | 125 | 377 | 96 | 212 | 185 | 100 | 13 | | |
| CHM8-25B | 158 | 125 | 408 | 96 | 232 | 158 | 125 | 408 | 96 | 217 | 200 | 100 | 16 | | |
| CHM8-30B | 199 | 160 | 449 | 140 | 244 | 158 | 125 | 408 | 96 | 217 | 200 | 100 | 21 | | |
| CHM8-35B | 199 | 160 | 479 | 140 | 244 | 158 | 125 | 438 | 96 | 217 | 230 | 130 | 22 | | |
| CHM8-40B | 199 | 160 | 479 | 140 | 244 | 158 | 125 | 438 | 96 | 217 | 230 | 130 | 23 | | |

CHM12/12-B, 50Hz

● Performance curve

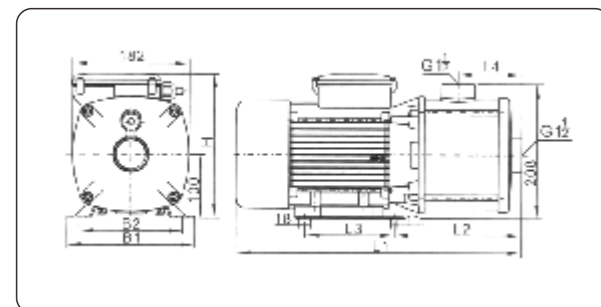
2900rpm



● Performance table

| Model | Driving motor P ₂ (kW) | Q (m ³ /h) | 7.0 | 8.0 | 9.0 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---------|--------------------------------------|--------------------------|-----|------|------|------|------|------|------|----|------|------|
| CHM12-1 | 0.75 | H (m) | 12 | 11.5 | 11 | 10.5 | 10 | 9.5 | 9 | 8 | 7 | 6 |
| CHM12-2 | 1.1 | | 23 | 22.5 | 22 | 21 | 20.5 | 19.5 | 18.5 | 17 | 15.5 | 13 |
| CHM12-3 | 1.85 | | 35 | 34.5 | 33.5 | 32.5 | 31 | 29.5 | 28 | 26 | 23.5 | 20 |
| CHM12-4 | 2.2 | | 47 | 46 | 45 | 43.5 | 41.5 | 39.5 | 37.5 | 35 | 31.5 | 27.5 |
| CHM12-5 | 3.0 | | 60 | 58 | 56.5 | 55 | 52.5 | 50 | 47 | 44 | 40 | 35 |

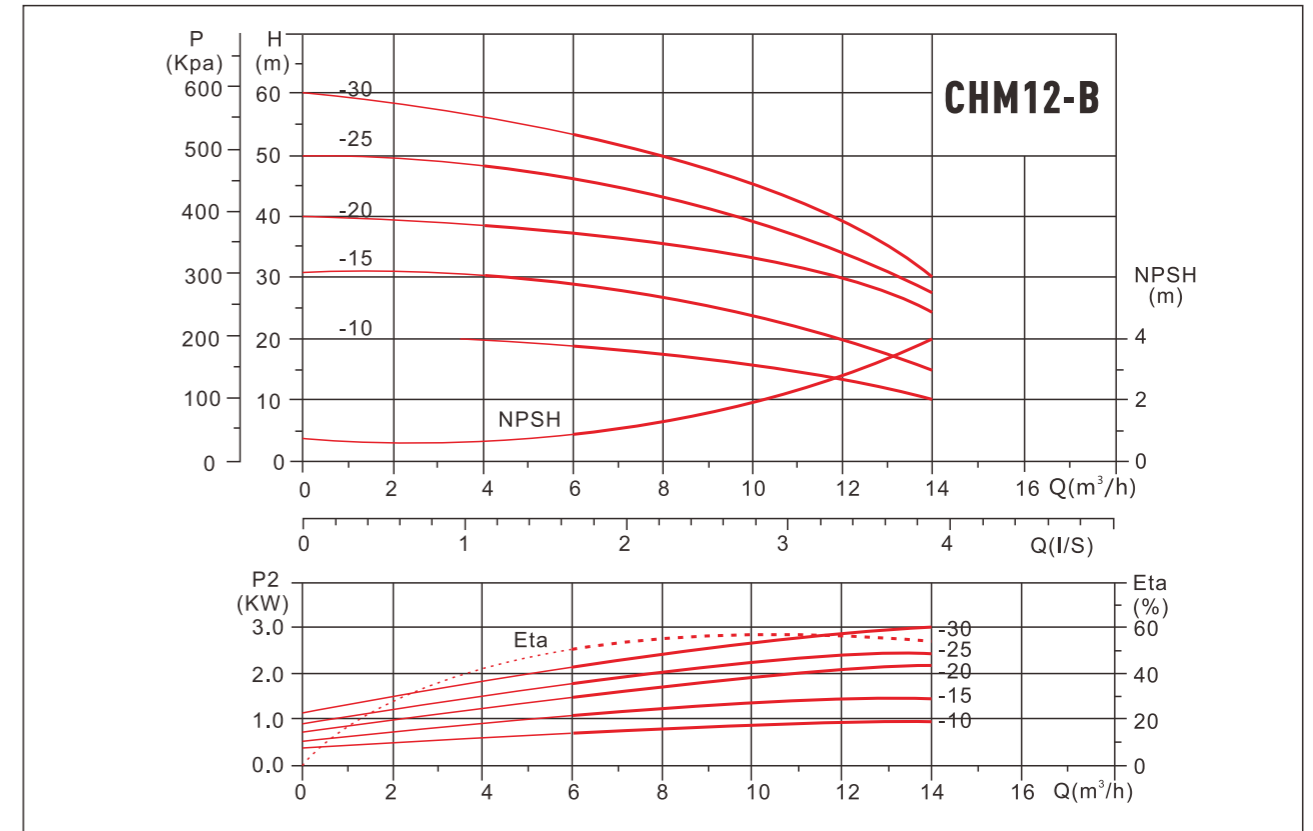
● Installation sketch



| Model | Dimensions(mm) | | | | | | | | | | | | | Weight (kg) |
|----------|----------------|-----|-----|-----|-----|-----|-------------|-----|-----|-----|-----|-----|-----|----------------|
| | Single | | | | | | Three Phase | | | | | | L4 | |
| | B1 | B2 | L1 | L2 | L3 | H | B1 | B2 | L1 | L2 | L3 | H | | |
| CHM12-10 | 158 | 125 | 377 | 185 | 96 | 206 | 158 | 125 | 377 | 185 | 96 | 212 | 100 | 11 |
| CHM12-20 | 158 | 125 | 408 | 200 | 96 | 214 | 158 | 125 | 408 | 200 | 96 | 217 | 100 | 12 |
| CHM12-30 | 199 | 160 | 449 | 200 | 140 | 244 | 158 | 125 | 408 | 200 | 96 | 217 | 100 | 22 |
| CHM12-40 | 199 | 160 | 479 | 200 | 140 | 244 | 158 | 125 | 438 | 200 | 96 | 217 | 130 | 23 |
| CHM12-50 | — | — | — | — | — | — | 199 | 160 | 539 | 290 | 140 | 212 | 190 | 26 |

● Performance curve

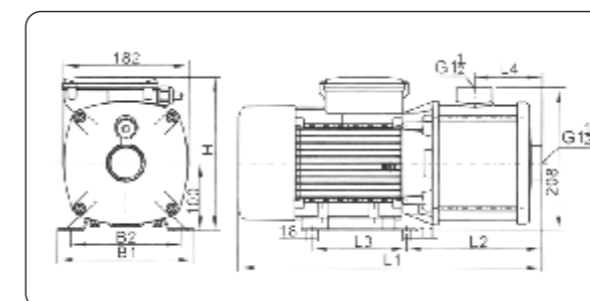
2900rpm



● Performance table

| Model | Driving motor P ₂ (kW) | Q (m ³ /h) | 6.0 | 7.0 | 8.0 | 9.0 | 10 | 11 | 12 | 13 | 14 |
|-----------|--------------------------------------|--------------------------|------|-----|------|------|------|----|------|------|------|
| CHM12-10B | 1.0 | H (m) | 19 | 18 | 17.5 | 16 | 15.5 | 14 | 13.5 | 12 | 10.5 |
| CHM12-15B | 1.5 | | 28 | 27 | 26 | 25 | 24 | 22 | 20 | 18 | 15 |
| CHM12-20B | 1.85 | | 38 | 36 | 35 | 32 | 31 | 29 | 28 | 24 | 20 |
| CHM12-25B | 2.2 | | 47 | 45 | 43 | 41.5 | 39 | 36 | 33.5 | 30.5 | 27 |
| CHM12-30B | 3.0 | | 53.5 | 52 | 50 | 47.5 | 45 | 42 | 39 | 35 | 30 |

● Installation sketch

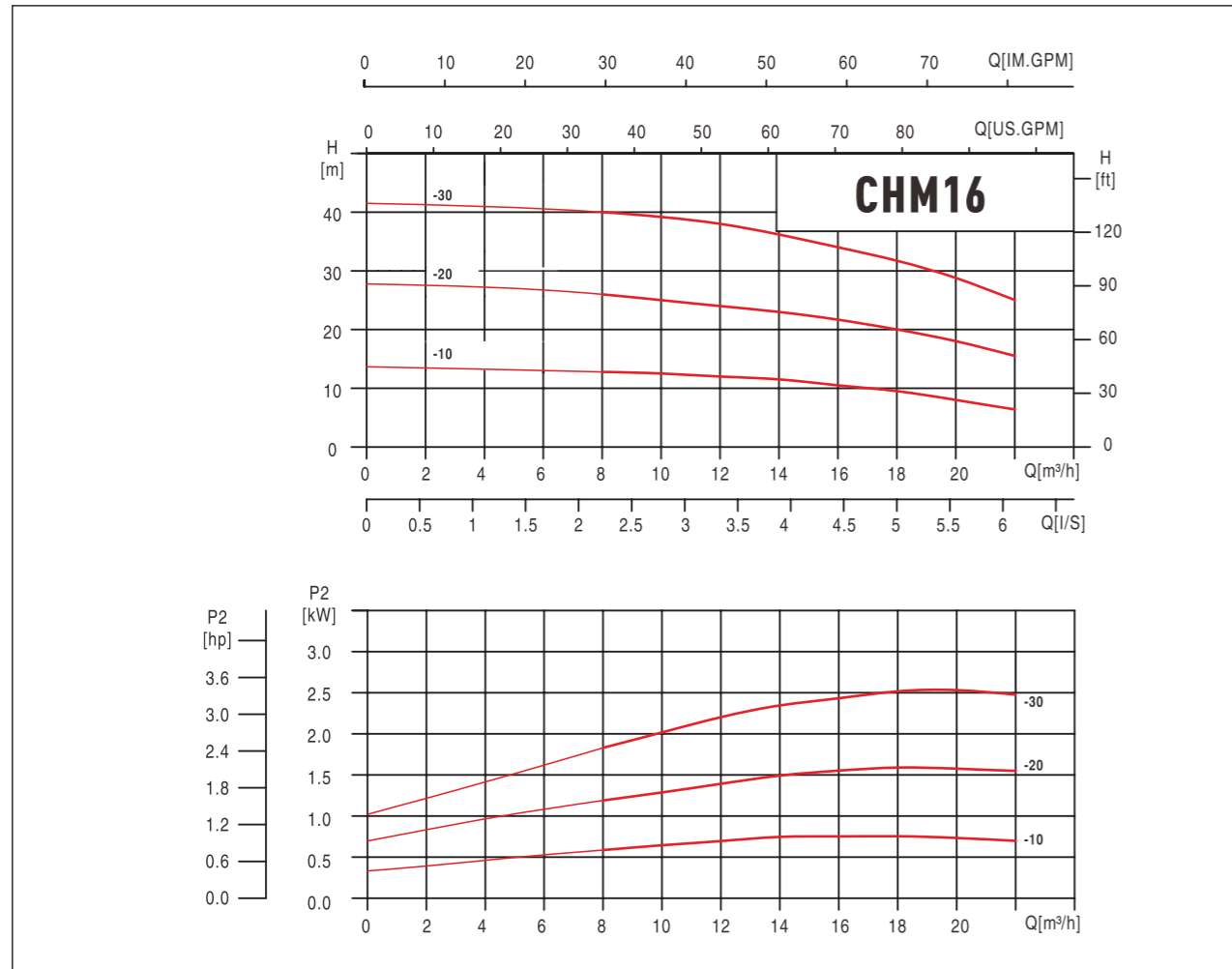


| Model | Dimensions(mm) | | | | | | | | | | | | | Weight (kg) |
|-----------|----------------|-----|-----|-----|-----|-------------|-----|-----|-----|-----|-----|-----|----|----------------|
| | Single | | | | | Three Phase | | | | | L2 | L4 | | |
| | B1 | B2 | L1 | L3 | H | B1 | B2 | L1 | L3 | H | | | | |
| CHM12-10B | 158 | 125 | 377 | 96 | 206 | 158 | 125 | 377 | 96 | 212 | 185 | 100 | 11 | |
| CHM12-15B | 158 | 125 | 408 | 96 | 214 | 158 | 125 | 408 | 96 | 217 | 200 | 100 | 13 | |
| CHM12-20B | 199 | 160 | 449 | 140 | 244 | 158 | 125 | 408 | 96 | 217 | 200 | 100 | 20 | |
| CHM12-25B | 199 | 160 | 449 | 140 | 244 | 158 | 125 | 409 | 96 | 217 | 200 | 100 | 23 | |
| CHM12-30B | — | — | — | — | — | 199 | 160 | 469 | 140 | 212 | 200 | 100 | 26 | |

CHM16/20, 50Hz

● Performance curve

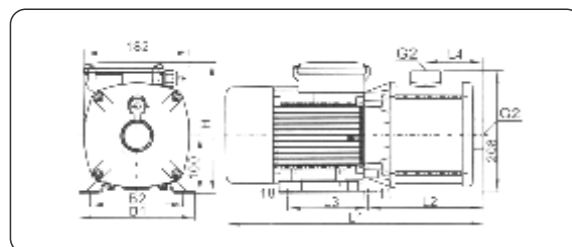
2900rpm



● Performance table

| MODEL | POWER (kW) | Q (m³/h) | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 |
|---------|------------|----------|------|------|----|------|------|------|----|------|
| CHM16-1 | 1.1 | H (m) | 12.8 | 12.5 | 12 | 11.5 | 10.5 | 9.5 | 8 | 7 |
| CHM16-2 | 2.2 | | 26 | 25 | 24 | 23 | 21.7 | 20 | 18 | 15.5 |
| CHM16-3 | 3 | | 40 | 39 | 38 | 36 | 34 | 31.5 | 29 | 25 |
| CHM16-4 | 4 | | 53.5 | 52 | 50 | 48 | 45 | 42 | 38 | 33.5 |

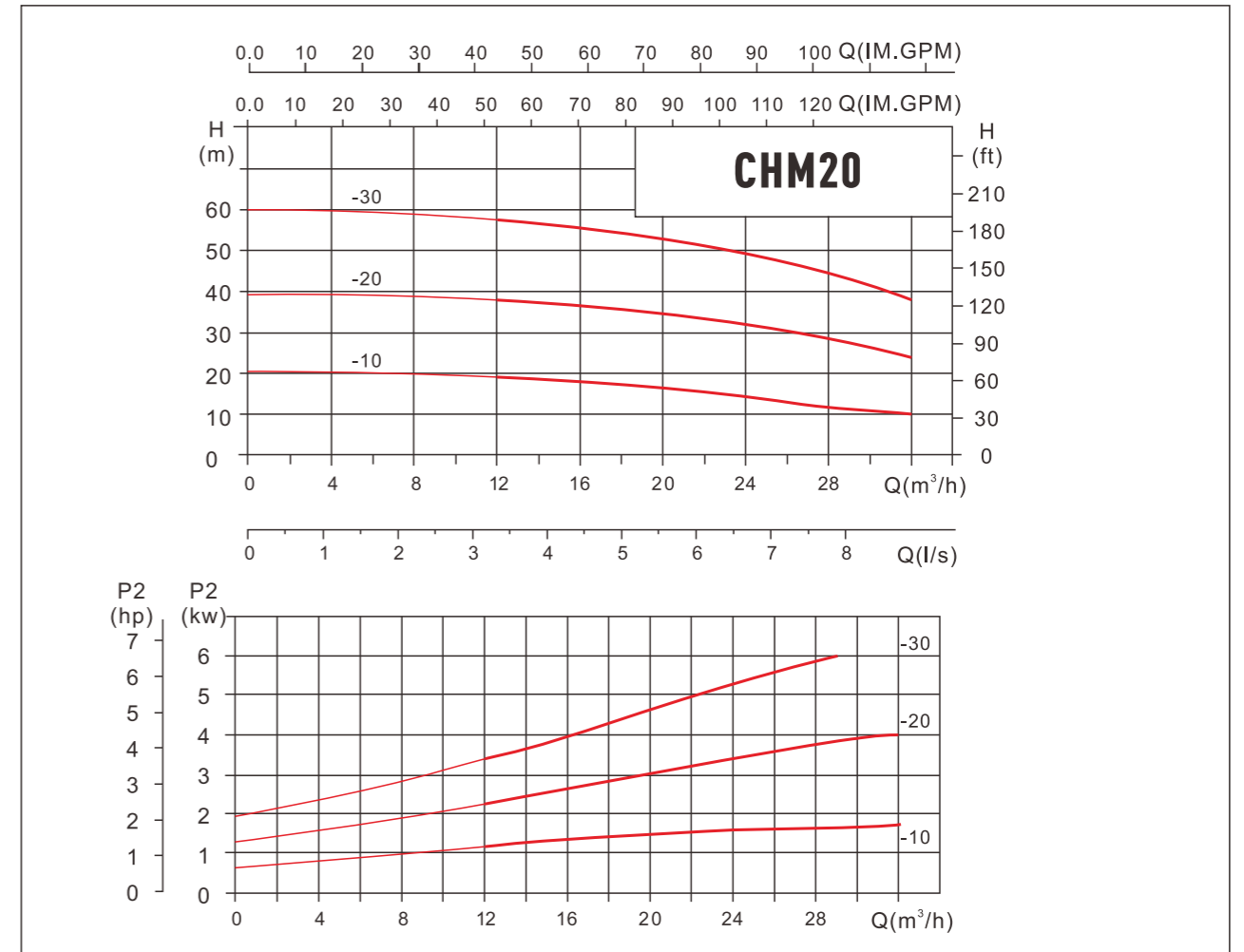
● Installation sketch



| Model | Dimensions(mm) | | | | | | | | | | | Weight (kg) | |
|----------|----------------|-----|-----|-----|-----|-------------|-----|-----|-----|-----|-----|-------------|----|
| | Single | | | | | Three Phase | | | | | L2 | | L4 |
| | B1 | B2 | L1 | L3 | H | B1 | B2 | L1 | L3 | H | | | |
| CHM16-10 | 158 | 125 | 408 | 96 | 209 | 158 | 125 | 408 | 96 | 212 | 215 | 130 | 13 |
| CHM16-20 | 158 | 125 | 439 | 96 | 232 | 158 | 125 | 439 | 96 | 217 | 230 | 130 | 16 |
| CHM16-30 | 199 | 160 | 480 | 140 | 244 | 199 | 160 | 580 | 140 | 212 | 230 | 130 | 22 |
| CHM16-40 | — | — | — | — | — | 199 | 160 | 545 | 140 | 212 | 275 | 175 | 27 |

● Performance curve

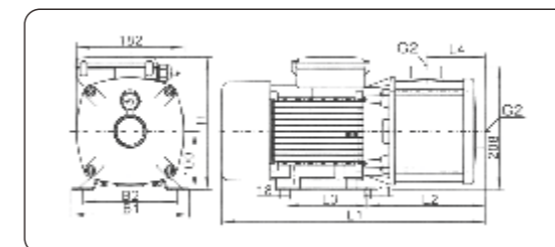
2900rpm



● Performance table

| Model | Driving motor | | Q (m³/h) | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 |
|---------|---------------|------|----------|-------|------|------|------|------|----|------|------|----|------|
| | (kw) | (hp) | | H (m) | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 |
| CHM20-1 | 1.1 | 1.6 | H (m) | 13.5 | 13 | 12.5 | 12 | 11 | 10 | 9 | 8 | 7 | 6 |
| CHM20-2 | 2.2 | 3 | | 27 | 26.5 | 25.5 | 25 | 23.5 | 22 | 20.5 | 18.5 | 17 | 14.5 |
| CHM20-3 | 4 | 5.5 | | 39.5 | 39 | 38 | 37.5 | 35.5 | 34 | 31.5 | 29 | 26 | 23 |

● Installation sketch



| Model | Dimensions(mm) | | | | | | | | | | | Weight (kg) | |
|----------|----------------|-----|-----|-----|-----|-------------|-----|-----|-----|-----|-----|-------------|----|
| | Single | | | | | Three Phase | | | | | L2 | | L4 |
| | B1 | B2 | L1 | L3 | H | B1 | B2 | L1 | L3 | H | | | |
| CHM20-10 | 158 | 125 | 408 | 96 | 209 | 158 | 125 | 408 | 96 | 212 | 215 | 130 | 19 |
| CHM20-20 | 199 | 160 | 480 | 140 | 244 | 199 | 125 | 439 | 96 | 217 | 230 | 130 | 21 |
| CHM20-30 | — | — | — | — | — | 199 | 160 | 500 | 140 | 212 | 230 | 130 | 24 |