

CDL 60Hz Light Vertical Multistage Centrifugal Pump

CDLF

For NEMA C-FRAME MOTORS



subject to amendments



W WISHART
PUMPS



General Data

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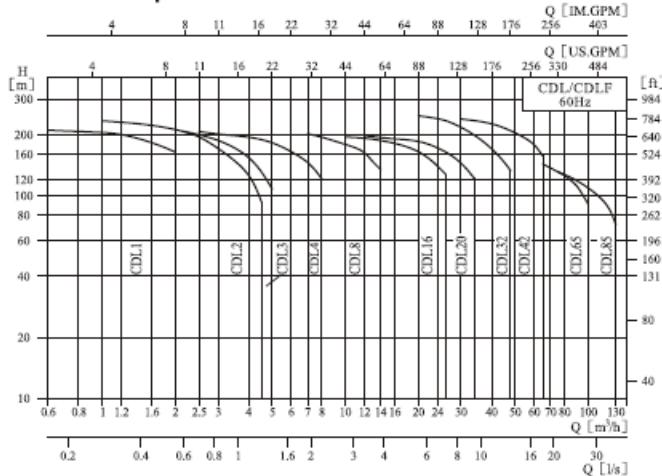
Technical Data

| | |
|-----------------|----|
| CDL/CDLF1,60Hz | 11 |
| CDL/CDLF2,60Hz | 13 |
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| CDL/CDLF42,60Hz | 27 |
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General Data

General Data

Performance scope



Product range

| Description | CDL1 | CDL2 | CDL3 | CDL4 | CDL8 | CDL16 | CDL20 | CDL32 | CDL42 | CDL65 | CDL85 |
|------------------------|-----------|-----------|----------|----------|---------|----------|----------|----------|--------|-----------|-----------|
| Rated flow [m³/h] | 1 | 2 | 3 | 4 | 8 | 16 | 20 | 32 | 42 | 65 | 85 |
| Rated flow [l/s] | 0.28 | 0.56 | 0.83 | 1.1 | 2.2 | 4.4 | 5.6 | 8.9 | 11.7 | 18 | 24 |
| Flow range [m³/h] | 0.6-2 | 1-4.5 | 1.5-5 | 2.5-8 | 7-14 | 10-26 | 12-34 | 20-48 | 30-65 | 40-100 | 60-130 |
| Flow range [l/s] | 0.17-0.56 | 0.28-1.25 | 0.42-1.4 | 0.7-2.2 | 1.9-3.9 | 2.8-7.2 | 3.3-9.4 | 5.5-13.3 | 8.3-18 | 11.1-27.7 | 16.7-36.1 |
| Max. pressure [bar] | 22 | 23.5 | 23 | 21 | 20 | 20 | 20 | 25 | 26 | 18 | 15 |
| Motor power [kW] | 0.37-2.2 | 0.55-3.7 | 0.37-3.7 | 0.75-5.5 | 0.75-11 | 2.2-18.5 | 2.2-18.5 | 2.2-30 | 5.5-45 | 7.5-45 | 11-45 |
| Temperature range [°C] | -15~+120 | | | | | | | | | | |
| Max. efficiency (%) | 44 | 46 | 54 | 57 | 62 | 66 | 69 | 73 | 75 | 76 | 77 |
| Type | | | | | | | | | | | |
| CDL | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| CDLF | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| CDL Pipe connection | | | | | | | | | | | |
| ANSI Flange | 1" | 1" | 1" | 1½" | 1¾" | 2" | 2" | 2½" | 3" | 4" | 4" |
| CDLF Pipe connection | | | | | | | | | | | |
| ANSI Flange | 1" | 1" | 1" | 1½" | 1¾" | 2" | 2" | 2½" | 3" | 4" | 4" |

Pump

CDL / CDLF is a kind of vertical non-self priming multistage centrifugal pump, which is driven by a standard electric motor. The motor output shaft directly connects with the pump shaft through a coupling. The pressure-resistant cylinder and flow passage components are fixed between pump head and inlet & outlet section with tie-bar bolts. The inlet and outlet are located at the pump bottom at the same plane. This kind of pump can be equipped with an intelligent protector to effectively prevent it from dry-running, out-of-phase and overload.

Operation conditions

- Thin, clean, non-flammable and non-explosive liquid containing no solid granules and fibers.
- Liquid temperature:
Normal temperature type: -15°C~+70°C,
Hot water type: -15°C~+120°C
- Ambient temperature: up to +40°C
- Altitude: up to 1000m

Application

CDL / CDLF is a kind of multifunctional products. It can be used to convey various medium from tap water to industrial liquid at different temperature and with different flow rate and pressure. CDL type is applicable to conveying non-corrosive liquid, while CDLF is suitable for slightly corrosive liquid.

- Water supply: Water filter and transport in Waterworks, boosting of main pipeline, boosting in high-rise buildings.
- Industrial boosting: Process flow water system, cleaning system, high-pressure washing system, fire fighting system.
- Industrial liquid conveying: Cooling and air-conditioning system, boiler water supply and condensing system, machine-associated purpose, acids and alkali.
- Water treatment: Ultrafiltration system, reverse osmosis system, distillation system, separator, swimming pool.
- Irrigation: Farmland irrigation, spray irrigation, drip irrigation.

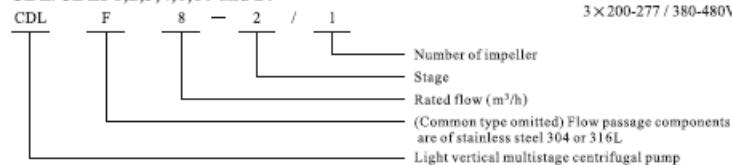
Motor

- Full-enclosed air-blast two-pole standard motor
- Protection class: IP55
- Insulation class: F

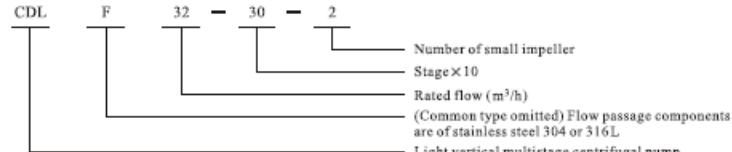
Standard voltage: 60Hz: 3×200-230 / 346-400V
3×200-255 / 380-440V
3×200-277 / 380-480V

Definition of Model

CDL/CDLF1,2,3,4,8,16 and 20



CDL/CDLF32,42,65 and 85



General Data

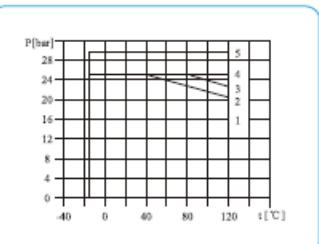
Max working pressure

| Model | Curve number |
|-----------------|--------------|
| 60Hz | |
| CDL,CDLF1,2,3,4 | 2 |
| CDL,CDLF8,16,20 | 3 |
| CDL32 | |
| 32-10-1~32-60-2 | 1 (**) |
| 32-60~32-100-2 | 5 |
| CDLF32 | 5 |
| CDL42 | |
| 42-10-1~42-40-2 | 1 (**) |
| 42-40~42-60 | 4 (**) |
| 42-70-2~42-70 | 5 |
| CDLF42 | |
| 42-10-1~42-60 | 4 (**) |
| 42-70-2~42-70 | 5 |
| CDL65 | |
| 65-10-1~65-30 | 1 (**) |
| 65-40-2~65-50-2 | 4 |
| CDL85 | |
| 85-10-1~85-30-2 | 1 (**) |
| 85-30-1~85-40-2 | 4 |
| CDLF65,85 | 4 |

*: For curve 5, need to specify especially;

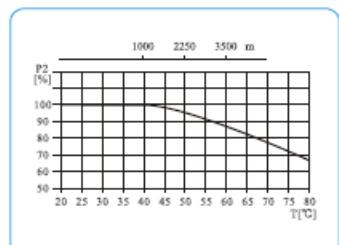
**: For curve 4, need to specify especially.

The following figure shows the limitation of pressure and temperature, which shall be kept within the region as shown in the figure.

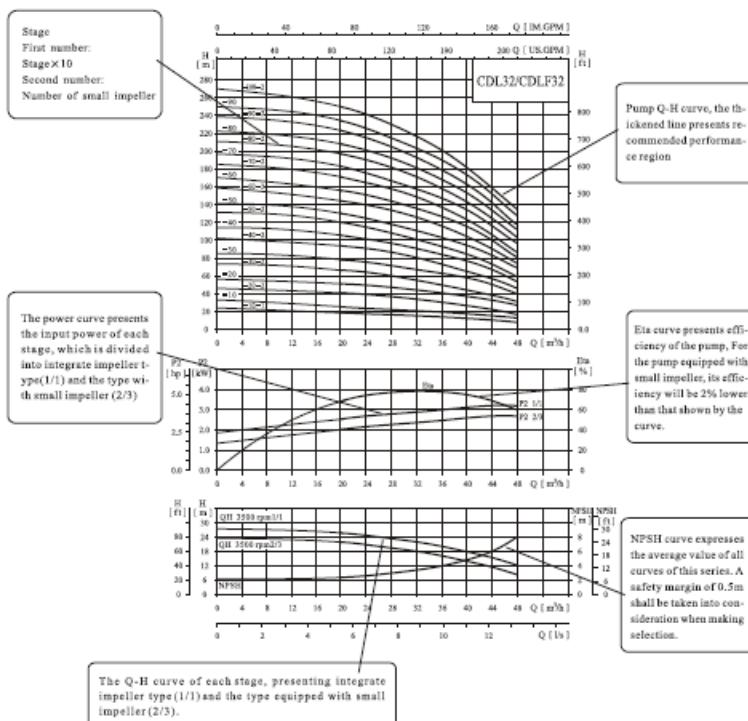


Max. Ambient temperature

When the pump operates under ambient temperature higher than 40°C or under altitude higher than 1000m, because of low air density and poor cooling effects, the motor output power P_2 will be decreased to certain extent. If the pump is operated under the above-said conditions, it should be equipped with motor of higher power.



Curve illustration



Performance curve

Following conditions are suitable for the performance curves shown below:

1. All curves are based on the measured values of constant motor speed 3500 r/min;
2. Curve tolerance in conformity with ISO9906 Annex A.
3. Measurement is done with 20°C air-free water, kin-

ematic viscosity of 1mm²/sec.

4. The operation of pump shall refer to the performance region indicated by the thickened curve to prevent overheating due to too small flow rate or overload of motor due to too large flow rate.

General Data

General Data

● Minimum inlet pressure NPSH

In case that the pressure in pump is lower than the steam pressure used to convey liquid, the cavitations will occur. To avoid cavitations, a minimum pressure at the inlet side of the pump shall be guaranteed. The maximum suction stroke can be calculated with following formula:

$$H = Pb \times 10.2 - NPSH - Hf - Hv - Hs$$

Pb=atmosphere pressure [bar]
(can be set as 1bar)

In a closed system, Pb means system pressure [bar]
NPSH=Net positive suction head [m]

(It can be read out from the point of possible max. flow rate shown on NPSH curve)

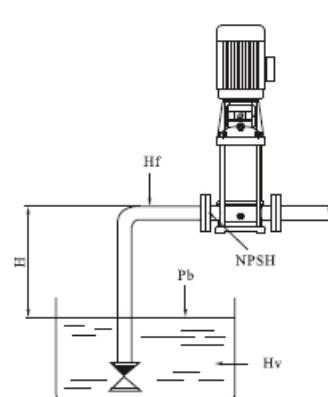
Hf=Pipeline loss at the inlet [m]

Hv=Steam pressure [m]

Hs=Safety margin=Minimum 0.5m delivery head

If the calculated result H is positive, the pump may run under the max. Suction stroke H.

In case the calculated result H is negative, a delivery head of min. Inlet pressure is necessary.



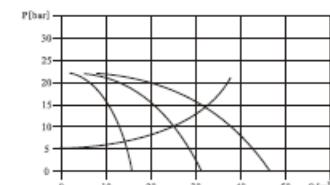
Check and ensure that the pump is not at cavitations state.

● Operation in parallel

Connecting several pumps in parallel running will benefit much more than running a single large pump.

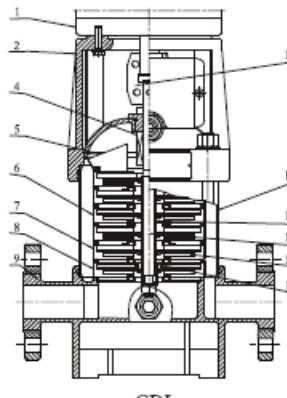
● Applicable to different working states necessary in a variable flow system.

● Increasing the possibility of water supply when the pump is in failure. Because in case of pump failure, only part of the system flow is effected.

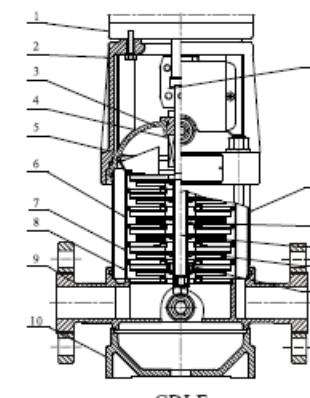


Two pumps or more can be connected in parallel running if necessary.

● Section drawing CDL/CDLF1,2,3,4



CDL



CDLF

● Material CDL/CDLF1,2,3,4

| NO. | Name | Material | AISI/ASTM |
|-----|------------------|------------------|---------------------|
| 1 | Motor | | |
| 2 | Pump head | Cast iron | ASTM25B |
| 4 | Mechanical seal | | |
| 5 | Top diffuser | Stainless steel | AISI304 |
| 6 | Diffuser | Stainless steel | AISI304 |
| 7 | Support diffuser | Stainless steel | AISI304 |
| 8 | Inducer | Stainless steel | AISI304 |
| 11 | Bearing | Tungsten carbide | |
| 12 | Impeller | Stainless steel | AISI304 |
| 13 | Shaft | Stainless steel | AISI304 AISI316L |
| 14 | Impeller sleeve | Stainless steel | AISI304 |
| 15 | Cylinder | Stainless steel | AISI304 |
| 16 | Coupling | Carbon steel | |

| NO. | Name | Material | AISI/ASTM |
|-----|--------------------------|-----------------|-----------|
| 3 | Seal base | Stainless steel | AISI304 |
| 9 | Inlet and outlet chamber | Stainless steel | AISI304 |
| 10 | Base plate | Cast iron | ASTM25B |

| NO. | Name | Material | AISI/ASTM |
|-----|--------------------------|-----------|-----------|
| 9 | Inlet and outlet chamber | Cast iron | ASTM25B |

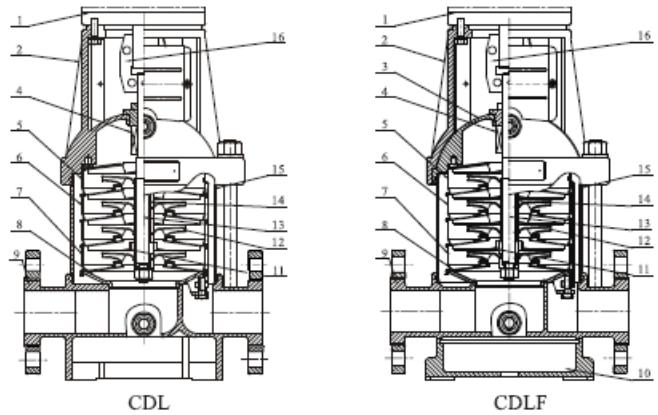
CDL

CDLF

General Data

General Data

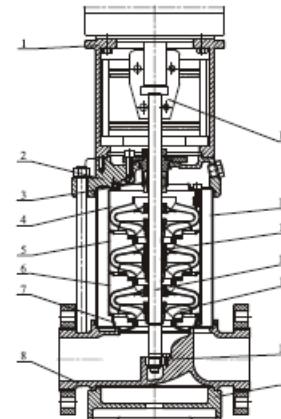
● Section drawing CDL/CDLF8,16,20



● Material CDL/CDLF8,16,20

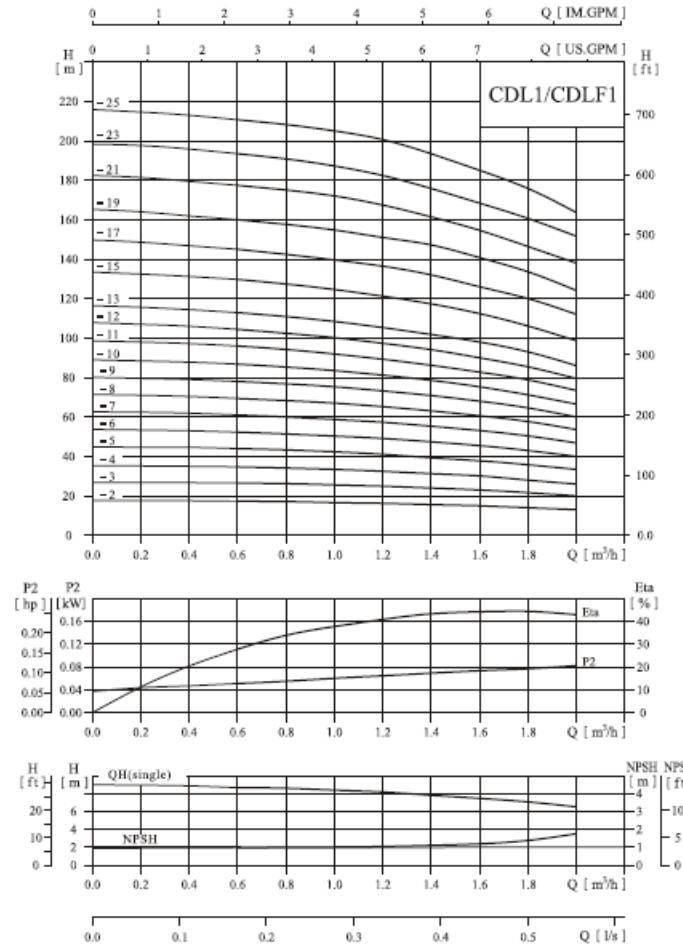
| NO. | Name | Material | AISI/ASTM | NO. | Name | Material | AISI/ASTM |
|-----|------------------|------------------|---------------------|------|--------------------------|-----------------|-----------|
| 1 | Motor | | | 14 | Impeller sleeve | Stainless steel | AISI304 |
| 2 | Pump head | Cast iron | ASTM25B | 15 | Cylinder | Stainless steel | AISI304 |
| 4 | Mechanical seal | | | 16 | Coupling | Carbon steel | |
| 5 | Top diffuser | Stainless steel | AISI304 | CDLF | | | |
| 6 | Diffuser | Stainless steel | AISI304 | 3 | Seal base | Stainless steel | AISI304 |
| 7 | Support diffuser | Stainless steel | AISI304 | 9 | Inlet and outlet chamber | Stainless steel | AISI304 |
| 8 | Inducer | Stainless steel | AISI304 | 10 | Base plate | Cast iron | ASTM25B |
| 11 | Bearing | Tungsten carbide | | CDL | | | |
| 12 | Impeller | Stainless steel | AISI304 | 9 | Inlet and outlet chamber | Cast iron | ASTM25B |
| 13 | Shaft | Stainless steel | AISI304 AISI316L | | | | |

● Section drawing CDL/CDLF32,42,65,85

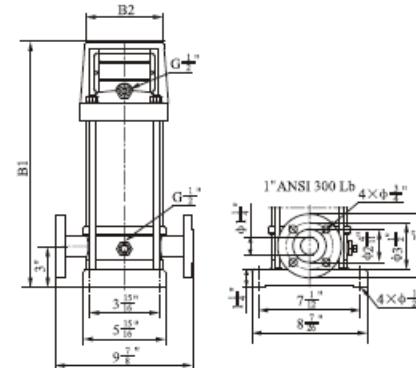


● Material CDL/CDLF32,42,65,85

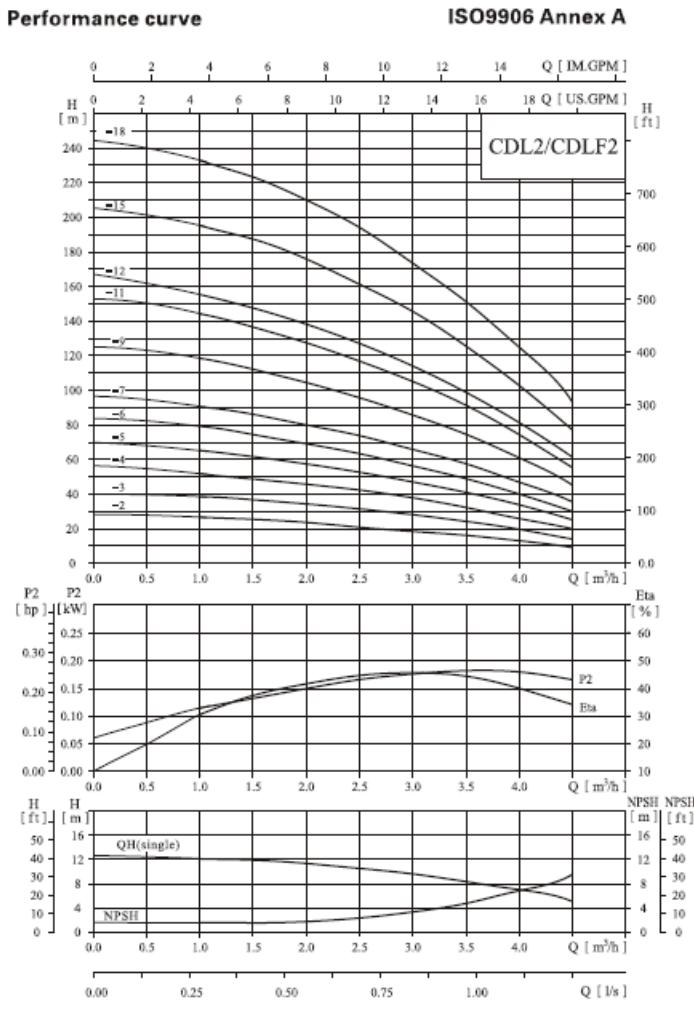
| NO. | Name | Material | AISI/ASTM | NO. | Name | Material | AISI/ASTM |
|-----|------------------|------------------|-----------|--------------|--------------------------|------------------|--------------------------------|
| 1 | Bracket | Cast iron | ASTM25B | 12 | Shaft | Stainless steel | AISI316L AISI304 AISI431 |
| 3 | Mechanical seal | | | 13 | Intermediate bearing | Tungsten carbide | |
| 4 | Top diffuser | Stainless steel | AISI304 | 14 | Cylinder | Stainless steel | AISI304 |
| 5 | Support diffuser | Stainless steel | AISI304 | 15 | Coupling | Carbon steel | |
| 6 | Diffuser | Stainless steel | AISI304 | Rubber parts | NBR | | |
| 7 | Inducer | Stainless steel | AISI304 | CDL | | | |
| 9 | Base plate | Cast iron | ASTM25B | 2 | Pump head | Cast iron | ASTM25B |
| 10 | Bottom bearing | Tungsten carbide | | 8 | Inlet and outlet chamber | Cast iron | ASTM25B |
| 11 | Impeller | Stainless steel | AISI304 | CDLF | | | |
| | | | | 2 | Pump head | Stainless steel | AISI304 |
| | | | | 8 | Inlet and outlet chamber | Stainless steel | AISI304 |

Performance curve**ISO9906 Annex A****Performance table**

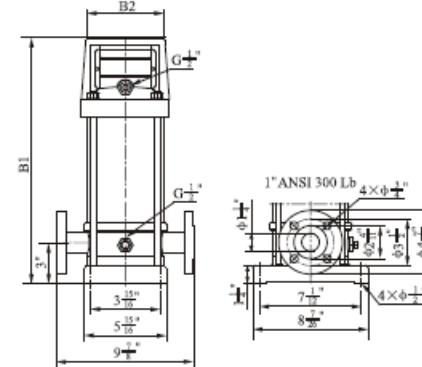
| Model | Driving motor (kW) (hp) | Frame | Q (m³/h) | 0.6 | 0.8 | 1 | 1.2 | 1.4 | 1.6 | 1.8 | 2 |
|---------|-------------------------------|-------|-------------|------|-----|------|-----|------|-----|-----|-----|
| CDL1-2 | 0.37 | 0.5 | 56C | 17.5 | 17 | 16.5 | 16 | 15.5 | 15 | 14 | 13 |
| CDL1-3 | 0.37 | 0.5 | 56C | 26.5 | 26 | 25 | 24 | 23 | 22 | 21 | 20 |
| CDL1-4 | 0.37 | 0.5 | 56C | 35 | 34 | 33 | 32 | 31 | 30 | 28 | 26 |
| CDL1-5 | 0.55 | 0.75 | 56C | 43 | 42 | 41 | 40 | 39 | 38 | 35 | 33 |
| CDL1-6 | 0.55 | 0.75 | 56C | 52 | 51 | 50 | 48 | 47 | 45 | 43 | 39 |
| CDL1-7 | 0.75 | 1 | 56C | 60 | 59 | 58 | 56 | 55 | 52 | 50 | 46 |
| CDL1-8 | 0.75 | 1 | 56C | 68 | 67 | 65 | 64 | 62 | 59 | 57 | 53 |
| CDL1-9 | 0.75 | 1 | 56C | 76 | 75 | 74 | 73 | 71 | 66 | 64 | 60 |
| CDL1-10 | 1.1 | 1.5 | 56C | 85 | 84 | 83 | 81 | 78 | 74 | 72 | 67 |
| CDL1-11 | 1.1 | 1.5 | 56C | 95 | 93 | 90 | 87 | 85 | 81 | 78 | 73 |
| CDL1-12 | 1.1 | 1.5 | 56C | 103 | 102 | 98 | 96 | 92 | 88 | 86 | 79 |
| CDL1-13 | 1.1 | 1.5 | 56C | 112 | 110 | 107 | 105 | 100 | 95 | 93 | 86 |
| CDL1-15 | 1.5 | 2 | 56C | 127 | 125 | 123 | 121 | 117 | 112 | 107 | 99 |
| CDL1-17 | 1.5 | 2 | 56C | 144 | 141 | 139 | 137 | 132 | 124 | 120 | 112 |
| CDL1-19 | 2.2 | 3 | 182TC | 160 | 157 | 155 | 153 | 147 | 141 | 134 | 124 |
| CDL1-21 | 2.2 | 3 | 182TC | 177 | 174 | 172 | 168 | 162 | 153 | 147 | 138 |
| CDL1-23 | 2.2 | 3 | 182TC | 193 | 190 | 188 | 184 | 174 | 167 | 161 | 152 |
| CDL1-25 | 2.2 | 3 | 182TC | 210 | 207 | 205 | 202 | 192 | 184 | 176 | 164 |

Installation sketch**Size and weight**

| Model | Size (in) | | Weight (lbs) |
|---------|-----------|-------|-----------------|
| | B1 | B2 | |
| CDL1-2 | 11 1/4 | 6 1/2 | 34 |
| CDL1-3 | 12 | 6 1/2 | 35 |
| CDL1-4 | 12 11/32 | 6 1/2 | 36 |
| CDL1-5 | 13 1/2 | 6 1/2 | 37 |
| CDL1-6 | 14 1/2 | 6 1/2 | 39 |
| CDL1-7 | 14 11/32 | 6 1/2 | 40 |
| CDL1-8 | 15 2/3 | 6 1/2 | 41 |
| CDL1-9 | 16 1/4 | 6 1/2 | 42 |
| CDL1-10 | 16 11/32 | 6 1/2 | 43 |
| CDL1-11 | 17 1/16 | 6 1/2 | 44 |
| CDL1-12 | 18 1/8 | 6 1/2 | 45 |
| CDL1-13 | 19 11/32 | 6 1/2 | 46 |
| CDL1-15 | 20 1/16 | 6 1/2 | 49 |
| CDL1-17 | 21 15/32 | 6 1/2 | 51 |
| CDL1-19 | 23 5/16 | 8 7/8 | 56 |
| CDL1-21 | 25 1/16 | 8 7/8 | 57 |
| CDL1-23 | 26 1/16 | 8 7/8 | 60 |
| CDL1-25 | 27 1/2 | 8 7/8 | 62 |

Performance curve**Performance table**

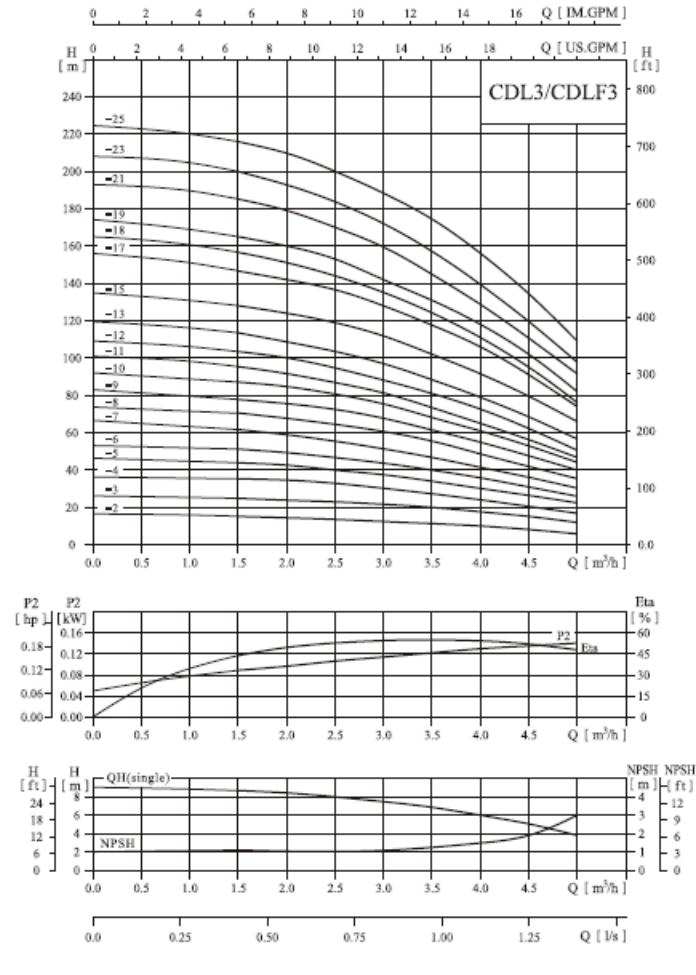
| Model | Driving motor (kW) (hp) | Frame | Q (m³/h) | 1 | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 |
|---------|-------------------------------|-------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| CDL2-2 | 0.55 | 0.75 | 56C | 26 | 24 | 22 | 21 | 18 | 16 | 12 | 9 |
| CDL2-3 | 0.75 | 1 | 56C | 39 | 36 | 33 | 31 | 27 | 24 | 19 | 15 |
| CDL2-4 | 1.1 | 1.5 | 56C | 52 | 48 | 45 | 42 | 36 | 32 | 26 | 20 |
| CDL2-5 | 1.1 | 1.5 | 56C | 65 | 60 | 57 | 52 | 46 | 41 | 32 | 25 |
| CDL2-6 | 1.1 | 1.5 | 56C | 78 | 74 | 69 | 63 | 56 | 49 | 40 | 30 |
| CDL2-7 | 1.5 | 2 | 56C | 91 | 86 | 81 | 74 | 66 | 57 | 47 | 35 |
| CDL2-9 | 2.2 | 3 | 182TC | 117 | 111 | 104 | 95 | 86 | 75 | 61 | 45 |
| CDL2-11 | 2.2 | 3 | 182TC | 143 | 136 | 128 | 116 | 104 | 90 | 75 | 56 |
| CDL2-12 | 2.2 | 3 | 182TC | 157 | 149 | 140 | 126 | 114 | 98 | 82 | 61 |
| CDL2-15 | 3.7 | 5 | 184TC | 195 | 186 | 176 | 160 | 142 | 125 | 103 | 77 |
| CDL2-18 | 3.7 | 5 | 184TC | 234 | 228 | 212 | 195 | 171 | 151 | 126 | 94 |

Installation sketch**Size and weight**

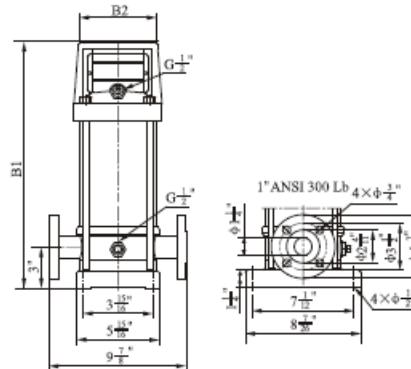
| Model | Size (in) | | Weight (lbs) |
|---------|--------------------|-----------------|-----------------|
| | B1 | B2 | |
| CDL2-2 | 10 $\frac{1}{4}$ | 6 $\frac{1}{2}$ | 34 |
| CDL2-3 | 12 | 6 $\frac{1}{2}$ | 35 |
| CDL2-4 | 12 $\frac{11}{16}$ | 6 $\frac{1}{2}$ | 36 |
| CDL2-5 | 13 $\frac{3}{8}$ | 6 $\frac{1}{2}$ | 37 |
| CDL2-6 | 14 $\frac{1}{8}$ | 6 $\frac{1}{2}$ | 39 |
| CDL2-7 | 14 $\frac{11}{16}$ | 6 $\frac{1}{2}$ | 40 |
| CDL2-9 | 16 $\frac{3}{16}$ | 8 $\frac{3}{8}$ | 42 |
| CDL2-11 | 18 | 8 $\frac{3}{8}$ | 44 |
| CDL2-12 | 18 $\frac{11}{16}$ | 8 $\frac{7}{8}$ | 50 |
| CDL2-15 | 20 $\frac{11}{16}$ | 8 $\frac{7}{8}$ | 53 |
| CDL2-18 | 22 $\frac{15}{16}$ | 8 $\frac{7}{8}$ | 55 |

Performance curve

ISO9906 Annex A

**Performance table**

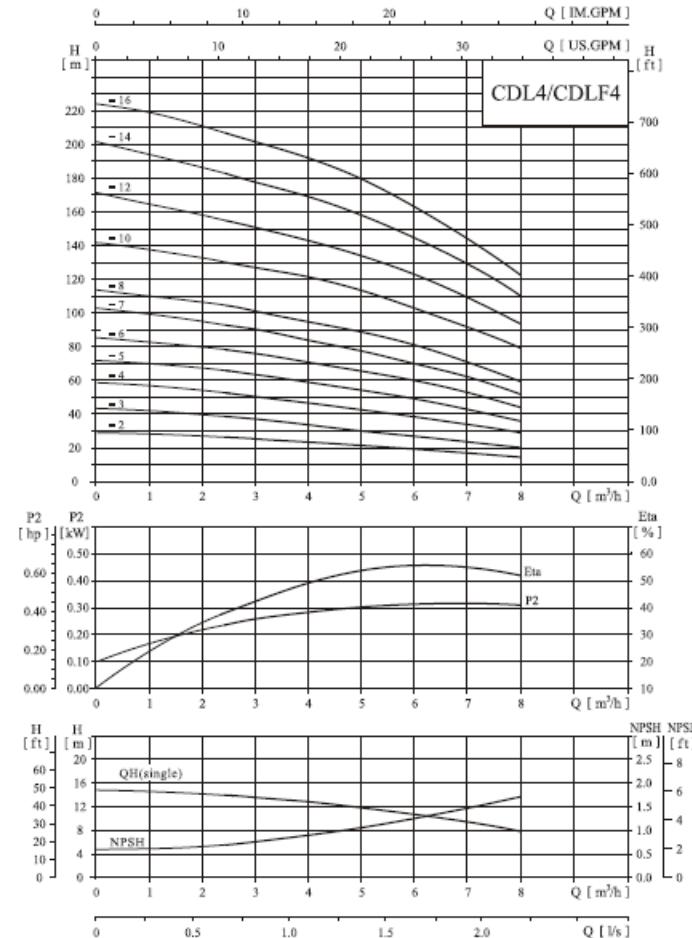
| Model | Driving motor (kW) | Frame | Q (m^3/h) | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 |
|---------|-----------------------|-------|----------------------------------|------|-----|-----|-----|-----|-----|-----|-----|
| CDL3-2 | 0.37 | 0.5 | 56C | 17.5 | 16 | 15 | 14 | 13 | 11 | 9 | 8 |
| CDL3-3 | 0.55 | 0.75 | 56C | 26.5 | 25 | 24 | 23 | 20 | 18 | 15 | 12 |
| CDL3-4 | 0.55 | 0.75 | 56C | 35 | 34 | 32 | 30 | 27 | 25 | 20 | 17 |
| CDL3-5 | 0.75 | 1 | 56C | 44 | 42 | 40 | 38 | 33 | 31 | 26 | 23 |
| CDL3-6 | 1.1 | 1.5 | 56C | 51 | 50 | 48 | 45 | 40 | 37 | 32 | 27 |
| CDL3-7 | 1.1 | 1.5 | 56C | 61 | 59 | 56 | 52 | 46 | 43 | 38 | 31 |
| CDL3-8 | 1.1 | 1.5 | 56C | 70 | 67 | 64 | 61 | 53 | 49 | 44 | 35 |
| CDL3-9 | 1.5 | 2 | 56C | 78 | 77 | 72 | 68 | 60 | 56 | 50 | 40 |
| CDL3-10 | 1.5 | 2 | 56C | 87 | 84 | 81 | 76 | 68 | 63 | 55 | 44 |
| CDL3-11 | 1.5 | 2 | 56C | 96 | 92 | 87 | 82 | 74 | 69 | 59 | 48 |
| CDL3-12 | 2.2 | 3 | 182TC | 104 | 100 | 96 | 90 | 79 | 73 | 63 | 52 |
| CDL3-13 | 2.2 | 3 | 182TC | 112 | 109 | 104 | 98 | 86 | 80 | 69 | 57 |
| CDL3-15 | 2.2 | 3 | 182TC | 129 | 126 | 120 | 112 | 99 | 93 | 81 | 65 |
| CDL3-17 | 2.2 | 3 | 182TC | 147 | 143 | 137 | 128 | 114 | 106 | 91 | 74 |
| CDL3-18 | 2.2 | 3 | 182TC | 156 | 152 | 145 | 135 | 120 | 112 | 96 | 78 |
| CDL3-19 | 3.7 | 5 | 184TC | 165 | 160 | 153 | 142 | 126 | 118 | 102 | 82 |
| CDL3-21 | 3.7 | 5 | 184TC | 183 | 178 | 170 | 160 | 141 | 129 | 112 | 91 |
| CDL3-23 | 3.7 | 5 | 184TC | 200 | 194 | 185 | 174 | 154 | 142 | 122 | 98 |
| CDL3-25 | 3.7 | 5 | 184TC | 217 | 211 | 202 | 187 | 167 | 154 | 134 | 108 |

Installation sketch**Size and weight**

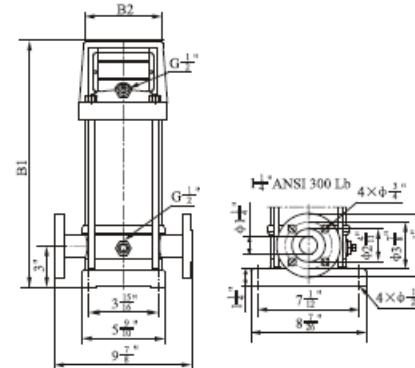
| Model | Size (in) | | Weight (lbs) |
|---------|------------------|-----------------|-----------------|
| | B1 | B2 | |
| CDL3-2 | 11 $\frac{1}{4}$ | 6 $\frac{1}{4}$ | 34 |
| CDL3-3 | 12 | 6 $\frac{1}{4}$ | 35 |
| CDL3-4 | 12 $\frac{1}{2}$ | 6 $\frac{1}{4}$ | 36 |
| CDL3-5 | 13 $\frac{1}{4}$ | 6 $\frac{1}{4}$ | 37 |
| CDL3-6 | 13 $\frac{1}{2}$ | 6 $\frac{1}{4}$ | 39 |
| CDL3-7 | 14 $\frac{1}{4}$ | 6 $\frac{1}{4}$ | 40 |
| CDL3-8 | 15 $\frac{1}{2}$ | 6 $\frac{1}{4}$ | 41 |
| CDL3-9 | 16 $\frac{1}{2}$ | 6 $\frac{1}{4}$ | 42 |
| CDL3-10 | 16 $\frac{1}{4}$ | 6 $\frac{1}{2}$ | 43 |
| CDL3-11 | 17 $\frac{1}{4}$ | 6 $\frac{1}{2}$ | 44 |
| CDL3-12 | 18 $\frac{1}{2}$ | 8 $\frac{1}{2}$ | 50 |
| CDL3-13 | 19 $\frac{1}{2}$ | 8 $\frac{1}{2}$ | 51 |
| CDL3-15 | 20 $\frac{1}{2}$ | 8 $\frac{1}{2}$ | 53 |
| CDL3-17 | 22 $\frac{1}{2}$ | 8 $\frac{1}{2}$ | 54 |
| CDL3-18 | 22 $\frac{1}{2}$ | 8 $\frac{1}{2}$ | 55 |
| CDL3-19 | 23 $\frac{1}{2}$ | 8 $\frac{1}{2}$ | 56 |
| CDL3-21 | 25 $\frac{1}{2}$ | 8 $\frac{1}{2}$ | 57 |
| CDL3-23 | 26 $\frac{1}{2}$ | 8 $\frac{1}{2}$ | 60 |
| CDL3-25 | 27 $\frac{1}{2}$ | 8 $\frac{1}{2}$ | 62 |

Performance curve

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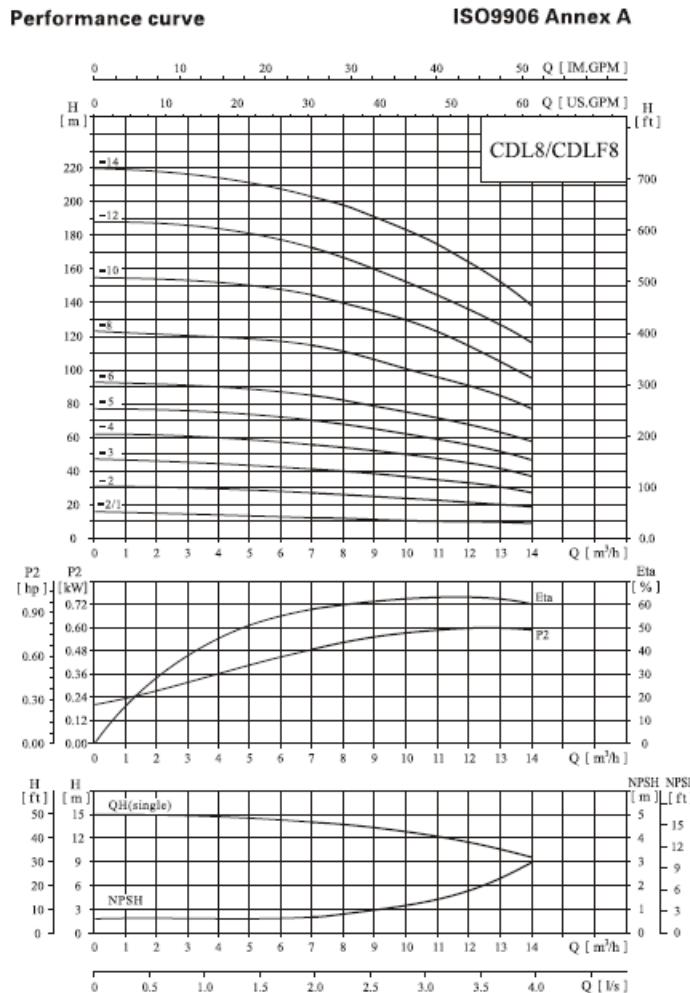
**Performance table**

| Model | Driving motor (kW) (hp) | Frame | Q (m³/h) | 2.5 | 3 | 4 | 5 | 6 | 7 | 8 |
|---------|-------------------------------|-------|---------------|-----|-----|-----|-----|-----|-----|-----|
| CDL4-2 | 0.75 | 1 | H (m) | 26 | 25 | 23 | 21 | 19 | 16 | 14 |
| CDL4-3 | 1.1 | 1.5 | | 39 | 38 | 36 | 32 | 28 | 24 | 21 |
| CDL4-4 | 1.5 | 2 | | 52 | 50 | 48 | 44 | 38 | 35 | 31 |
| CDL4-5 | 2.2 | 3 | | 65 | 62 | 60 | 55 | 49 | 44 | 39 |
| CDL4-6 | 2.2 | 3 | | 78 | 75 | 72 | 67 | 59 | 54 | 47 |
| CDL4-7 | 3.7 | 5 | | 92 | 88 | 84 | 78 | 69 | 62 | 55 |
| CDL4-8 | 3.7 | 5 | | 104 | 100 | 95 | 90 | 79 | 72 | 63 |
| CDL4-10 | 3.7 | 5 | | 130 | 125 | 120 | 113 | 102 | 90 | 80 |
| CDL4-12 | 5.5 | 7.5 | | 156 | 150 | 145 | 136 | 122 | 109 | 96 |
| CDL4-14 | 5.5 | 7.5 | | 182 | 176 | 170 | 159 | 145 | 129 | 112 |
| CDL4-16 | 5.5 | 7.5 | | 207 | 201 | 196 | 183 | 165 | 146 | 128 |

Installation sketch**Size and weight**

| Model | Size (in) | | Weight (lbs) |
|---------|-----------|-------|-----------------|
| | B1 | B2 | |
| CDL4-2 | 12 | 6 1/2 | 37 |
| CDL4-3 | 13 1/2 | 6 1/2 | 39 |
| CDL4-4 | 14 1/8 | 6 1/2 | 40 |
| CDL4-5 | 15 7/16 | 8 7/8 | 46 |
| CDL4-6 | 16 9/16 | 8 7/8 | 47 |
| CDL4-7 | 17 5/8 | 8 7/8 | 49 |
| CDL4-8 | 18 11/16 | 8 7/8 | 50 |
| CDL4-10 | 20 13/16 | 8 7/8 | 51 |
| CDL4-12 | 23 7/16 | 8 7/8 | 55 |
| CDL4-14 | 25 9/16 | 8 7/8 | 57 |
| CDL4-16 | 27 11/16 | 8 7/8 | 60 |

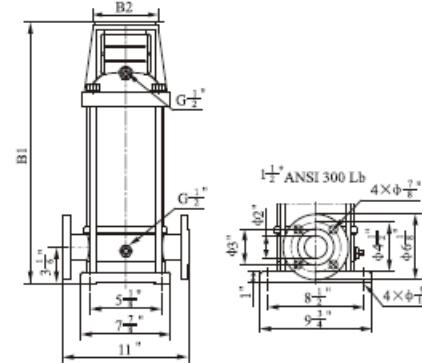
● Performance curve



● Performance table

| Model | Driving motor (kW) (hp) | Frame | Q (m³/h) | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|----------|-------------------------------|-------|---------------|-----|-----|------|-----|------|-----|-----|-----|
| CDL8-2/I | 0.75 | 1 | H (m) | 13 | 12 | 11.5 | 11 | 10.5 | 10 | 9.5 | 9 |
| CDL8-2 | 1.5 | 2 | | 27 | 26 | 25 | 24 | 23 | 22 | 20 | 18 |
| CDL8-3 | 2.2 | 3 | | 41 | 40 | 38 | 37 | 35 | 33 | 30 | 28 |
| CDL8-4 | 3.7 | 5 | | 55 | 54 | 52 | 50 | 47 | 45 | 41 | 38 |
| CDL8-5 | 3.7 | 5 | | 70 | 68 | 65 | 63 | 59 | 56 | 52 | 47 |
| CDL8-6 | 3.7 | 5 | | 85 | 82 | 78 | 76 | 72 | 68 | 62 | 57 |
| CDL8-8 | 5.5 | 7.5 | | 115 | 110 | 105 | 101 | 97 | 91 | 84 | 75 |
| CDL8-10 | 7.5 | 10 | | 145 | 140 | 132 | 126 | 122 | 115 | 105 | 95 |
| CDL8-12 | 7.5 | 10 | | 173 | 167 | 160 | 152 | 147 | 132 | 125 | 115 |
| CDL8-14 | 11 | 15 | | 202 | 195 | 188 | 179 | 174 | 163 | 147 | 135 |

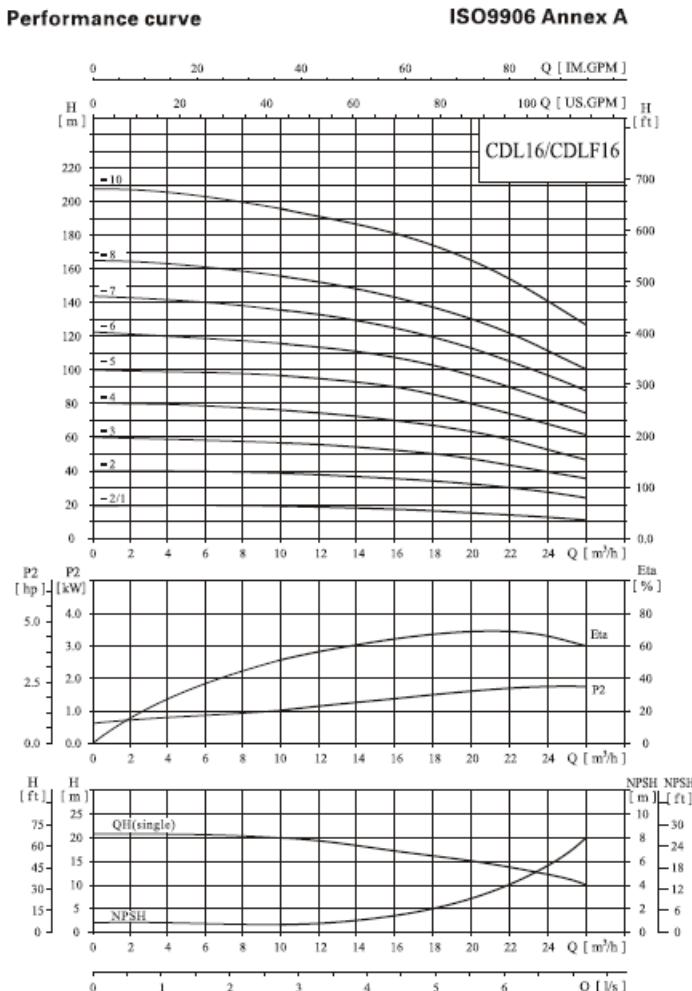
● Installation sketch



● Size and weight

| Model | Size (in) | | Weight (lbs) |
|----------|-----------|-------|-----------------|
| | B1 | B2 | |
| CDL8-2/I | 14 4/9 | 6 1/2 | 57 |
| CDL8-2 | 14 4/9 | 6 1/2 | 57 |
| CDL8-3 | 16 11/16 | 8 3/8 | 65 |
| CDL8-4 | 17 1/4 | 8 7/8 | 66 |
| CDL8-5 | 18 1/2 | 8 7/8 | 67 |
| CDL8-6 | 19 1/2 | 8 7/8 | 68 |
| CDL8-8 | 22 11/16 | 8 7/8 | 82 |
| CDL8-10 | 24 4/9 | 8 7/8 | 84 |
| CDL8-12 | 27 1/2 | 8 7/8 | 86 |
| CDL8-14 | 33 11/16 | 8 7/8 | 95 |

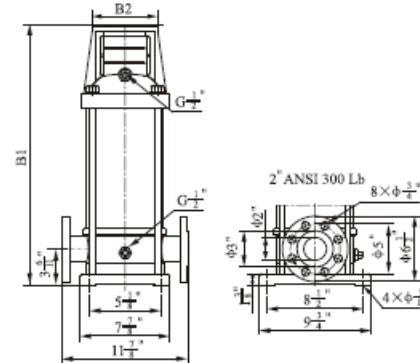
● Performance curve



● Performance table

| Model | Driving motor (kW) (hp) | Frame | $\frac{Q}{(m^3/h)}$ | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 |
|-----------|-------------------------------|-------|---------------------|-----|------|-----|-----|-----|-----|-----|-----|-----|
| CDL16-2/1 | 2.2 | 3 | H (m) | 19 | 18.5 | 18 | 17 | 16 | 15 | 14 | 13 | 11 |
| CDL16-2 | 3.7 | 5 | | 38 | 37 | 36 | 35 | 34 | 32 | 30 | 27 | 24 |
| CDL16-3 | 5.5 | 7.5 | | 57 | 56 | 55 | 54 | 51 | 48 | 45 | 40 | 36 |
| CDL16-4 | 7.5 | 10 | | 76 | 75 | 73 | 72 | 68 | 64 | 60 | 54 | 49 |
| CDL16-5 | 11 | 15 | | 96 | 94 | 92 | 90 | 85 | 80 | 75 | 68 | 62 |
| CDL16-6 | 11 | 15 | | 115 | 113 | 111 | 108 | 102 | 96 | 91 | 82 | 75 |
| CDL16-7 | 15 | 20 | | 135 | 132 | 129 | 126 | 119 | 113 | 106 | 96 | 88 |
| CDL16-8 | 15 | 20 | | 155 | 152 | 148 | 144 | 137 | 130 | 122 | 111 | 101 |
| CDL16-10 | 18.5 | 25 | | 197 | 192 | 187 | 181 | 174 | 165 | 153 | 139 | 127 |

● Installation sketch

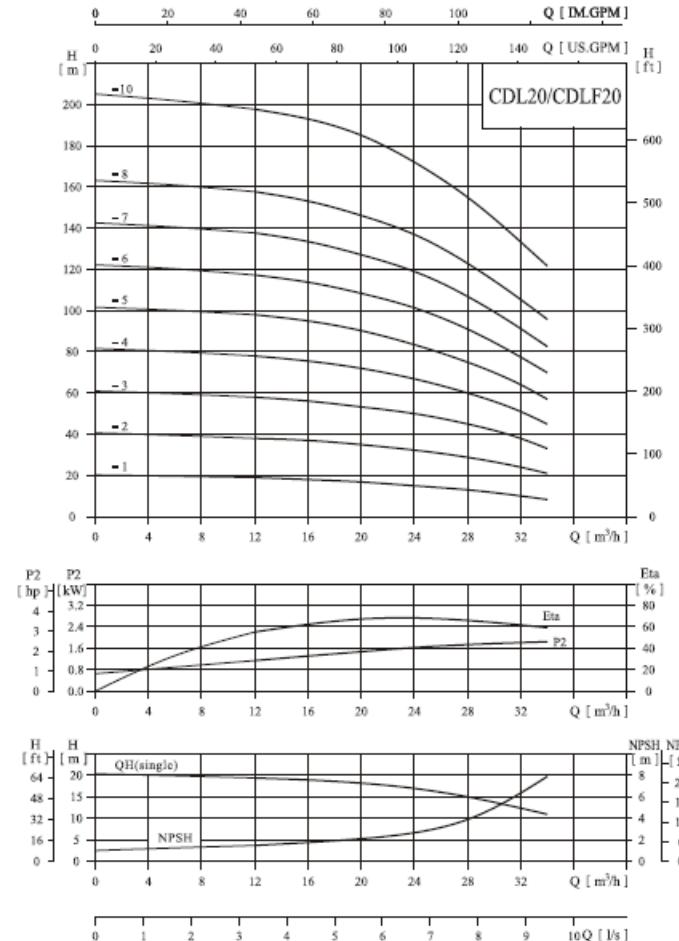


● Size and weight

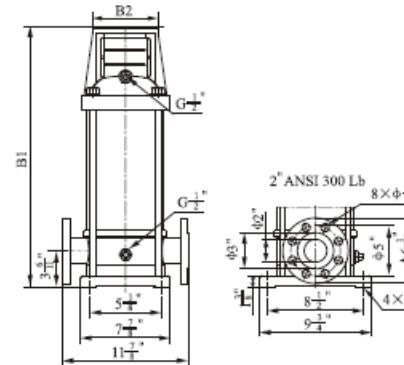
| Model | Size (in) | | Weight (lbs) |
|-----------|--------------------|------------------|-----------------|
| | B1 | B2 | |
| CDL16-2/1 | 16 $\frac{1}{2}$ | 8 $\frac{1}{2}$ | 71 |
| CDL16-2 | 16 $\frac{11}{16}$ | 8 $\frac{7}{8}$ | 71 |
| CDL16-3 | 18 $\frac{3}{8}$ | 8 $\frac{7}{8}$ | 73 |
| CDL16-4 | 20 $\frac{3}{4}$ | 8 $\frac{3}{4}$ | 75 |
| CDL16-5 | 22 $\frac{4}{15}$ | 8 $\frac{7}{8}$ | 84 |
| CDL16-6 | 27 | 8 $\frac{7}{8}$ | 86 |
| CDL16-7 | 28 $\frac{11}{16}$ | 8 $\frac{7}{8}$ | 88 |
| CDL16-8 | 30 $\frac{5}{8}$ | 8 $\frac{7}{8}$ | 93 |
| CDL16-10 | 33 $\frac{3}{8}$ | 11 $\frac{1}{2}$ | 101 |

Performance curve

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**Performance table**

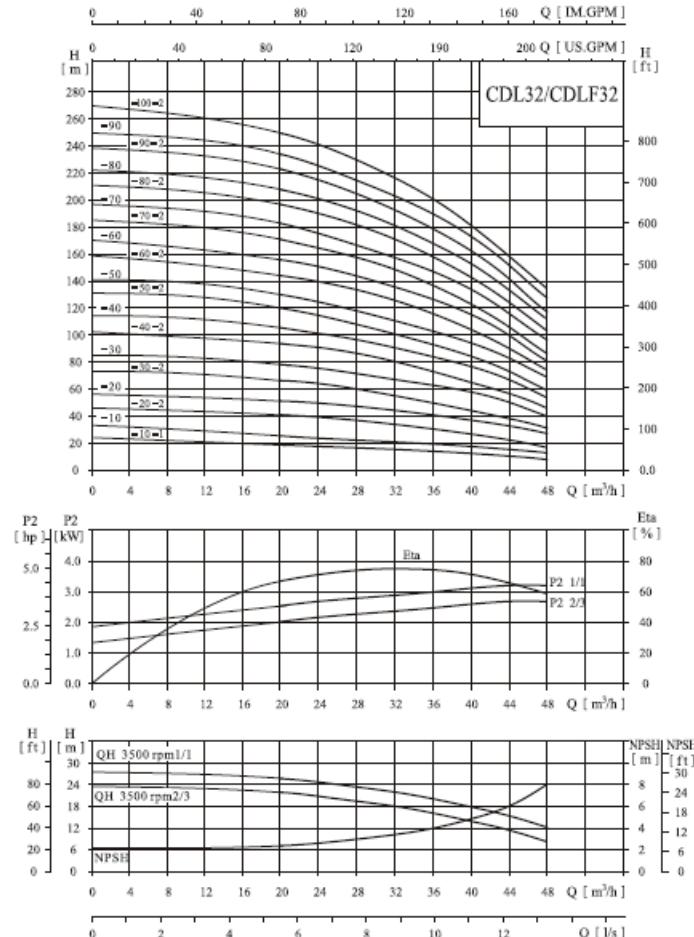
| Model | Driving motor (kW) (hp) | Frame | Q (m³/h) | 12 | 16 | 20 | 24 | 28 | 32 | 34 |
|----------|-------------------------------|-------|-------------|-----|-----|-----|-----|-----|-----|-----|
| CDL20-1 | 2.2 | 3 | 182TC | 19 | 18 | 17 | 15 | 13 | 10 | 8.5 |
| CDL20-2 | 3.7 | 5 | | 38 | 37 | 35 | 32 | 29 | 24 | 21 |
| CDL20-3 | 5.5 | 7.5 | | 58 | 56 | 53 | 50 | 45 | 38 | 33 |
| CDL20-4 | 7.5 | 10 | | 78 | 75 | 72 | 67 | 60 | 51 | 45 |
| CDL20-5 | 11 | 15 | | 98 | 94 | 90 | 85 | 75 | 64 | 57 |
| CDL20-6 | 11 | 15 | | 118 | 113 | 108 | 102 | 91 | 77 | 70 |
| CDL20-7 | 15 | 20 | | 138 | 133 | 127 | 119 | 107 | 91 | 83 |
| CDL20-8 | 15 | 20 | | 158 | 153 | 146 | 137 | 123 | 105 | 96 |
| CDL20-10 | 18.5 | 25 | | 198 | 193 | 185 | 172 | 155 | 133 | 122 |

Installation sketch**Size and weight**

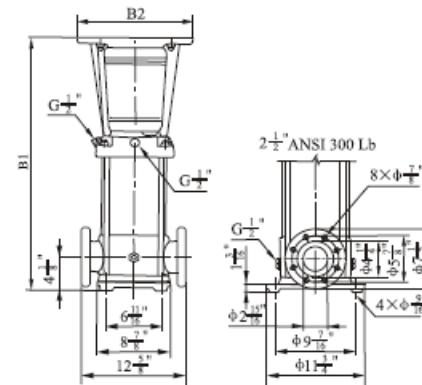
| Model | Size (in) | | Weight (lbs) |
|----------|--------------------|------------------|-----------------|
| | B1 | B2 | |
| CDL20-1 | 16 $\frac{1}{2}$ | 8 $\frac{1}{2}$ | 73 |
| CDL20-2 | 16 $\frac{11}{16}$ | 8 $\frac{1}{2}$ | 73 |
| CDL20-3 | 18 $\frac{1}{2}$ | 8 $\frac{1}{2}$ | 75 |
| CDL20-4 | 20 $\frac{1}{2}$ | 8 $\frac{1}{2}$ | 77 |
| CDL20-5 | 25 $\frac{4}{11}$ | 8 $\frac{1}{2}$ | 86 |
| CDL20-6 | 27 | 8 $\frac{1}{2}$ | 88 |
| CDL20-7 | 28 $\frac{1}{16}$ | 8 $\frac{1}{2}$ | 90 |
| CDL20-8 | 30 $\frac{5}{16}$ | 8 $\frac{1}{2}$ | 95 |
| CDL20-10 | 33 $\frac{3}{16}$ | 11 $\frac{1}{2}$ | 104 |

Performance curve

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**Performance table**

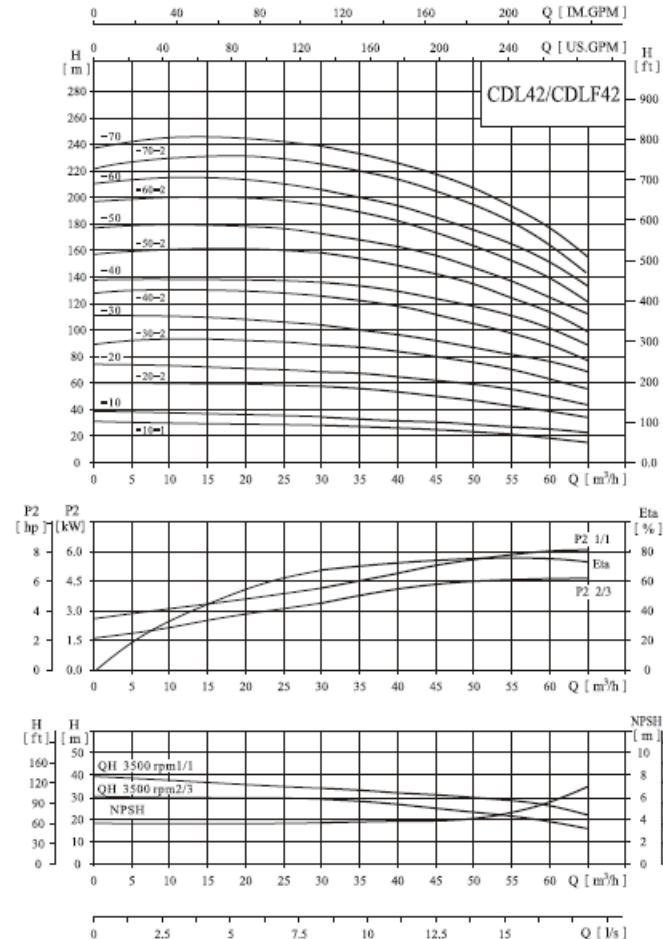
| Model | Driving motor (kW) | Frame | Q (m^3/h) | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 |
|-------------|-----------------------|-------|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| CDL32-10-1 | 2.2 | 3 | 182TC | 20 | 19 | 18 | 17 | 15 | 13 | 10 | 7 |
| CDL32-10 | 3.7 | 5 | 184TC | 26 | 25 | 24 | 23 | 21 | 19 | 17 | 14 |
| CDL32-20-2 | 5.5 | 7.5 | 213TC | 41 | 40 | 38 | 35 | 31 | 27 | 22 | 17 |
| CDL32-20 | 7.5 | 10 | 215TC | 52 | 50 | 48 | 45 | 41 | 37 | 33 | 27 |
| CDL32-30-2 | 7.5 | 10 | 215TC | 67 | 64 | 61 | 57 | 52 | 46 | 39 | 31 |
| CDL32-30 | 11 | 15 | 254TC | 78 | 75 | 71 | 67 | 62 | 56 | 50 | 40 |
| CDL32-40-2 | 11 | 15 | 254TC | 94 | 91 | 87 | 81 | 73 | 65 | 56 | 45 |
| CDL32-40 | 15 | 20 | 256TC | 104 | 101 | 96 | 91 | 83 | 75 | 66 | 55 |
| CDL32-50-2 | 15 | 20 | 256TC | 119 | 115 | 109 | 102 | 94 | 84 | 73 | 59 |
| CDL32-50 | 15 | 20 | 256TC | 130 | 125 | 119 | 112 | 104 | 94 | 83 | 69 |
| CDL32-60-2 | 18.5 | 25 | 284TC | 145 | 140 | 134 | 126 | 116 | 104 | 90 | 74 |
| CDL32-60 | 18.5 | 25 | 284TC | 155 | 150 | 144 | 136 | 126 | 114 | 100 | 81 |
| CDL32-70-2 | 22 | 30 | 286TC | 172 | 166 | 158 | 149 | 137 | 123 | 106 | 86 |
| CDL32-70 | 22 | 30 | 286TC | 182 | 176 | 168 | 159 | 148 | 133 | 118 | 97 |
| CDL32-80-2 | 22 | 30 | 286TC | 196 | 190 | 182 | 172 | 159 | 143 | 124 | 102 |
| CDL32-80 | 30 | 40 | 324TC | 208 | 201 | 192 | 181 | 167 | 152 | 132 | 111 |
| CDL32-90-2 | 30 | 40 | 324TC | 223 | 216 | 206 | 194 | 179 | 162 | 142 | 117 |
| CDL32-90 | 30 | 40 | 324TC | 234 | 226 | 216 | 204 | 189 | 172 | 152 | 127 |
| CDL32-100-2 | 30 | 40 | 324TC | 248 | 241 | 231 | 217 | 201 | 181 | 159 | 133 |

Installation sketch**Size and weight**

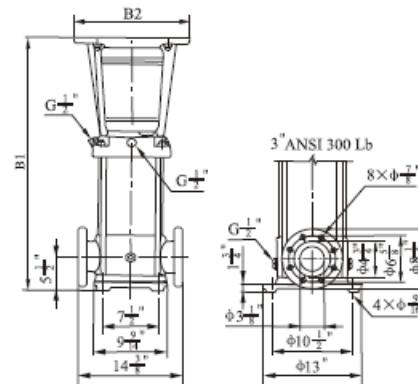
| Model | Size (in) | | Weight (lbs) |
|-------------|------------------|------------------|-----------------|
| | B1 | B2 | |
| CDL32-10-1 | $20\frac{3}{8}$ | $8\frac{7}{8}$ | 93 |
| CDL32-10 | $20\frac{3}{8}$ | $8\frac{7}{8}$ | 93 |
| CDL32-20-2 | $22\frac{3}{8}$ | $8\frac{7}{8}$ | 101 |
| CDL32-20 | $22\frac{3}{8}$ | $8\frac{7}{8}$ | 101 |
| CDL32-30-2 | $25\frac{3}{8}$ | $8\frac{7}{8}$ | 110 |
| CDL32-30 | $20\frac{3}{8}$ | $8\frac{7}{8}$ | 128 |
| CDL32-40-2 | $31\frac{3}{8}$ | $8\frac{7}{8}$ | 137 |
| CDL32-40 | $31\frac{3}{8}$ | $8\frac{7}{8}$ | 137 |
| CDL32-50-2 | $34\frac{3}{16}$ | $8\frac{7}{8}$ | 146 |
| CDL32-50 | $34\frac{3}{16}$ | $8\frac{7}{8}$ | 139 |
| CDL32-60-2 | $33\frac{3}{8}$ | $11\frac{1}{16}$ | 148 |
| CDL32-60 | $33\frac{3}{8}$ | $11\frac{1}{16}$ | 148 |
| CDL32-70-2 | $37\frac{3}{8}$ | $11\frac{1}{32}$ | 157 |
| CDL32-70 | $37\frac{3}{8}$ | $11\frac{1}{32}$ | 157 |
| CDL32-80-2 | $42\frac{1}{8}$ | $11\frac{1}{32}$ | 165 |
| CDL32-80 | $42\frac{1}{8}$ | $13\frac{7}{16}$ | 179 |
| CDL32-90-2 | $42\frac{1}{8}$ | $13\frac{7}{16}$ | 187 |
| CDL32-90 | $42\frac{1}{8}$ | $13\frac{7}{16}$ | 187 |
| CDL32-100-2 | $48\frac{3}{8}$ | $13\frac{7}{16}$ | 196 |

Performance curve

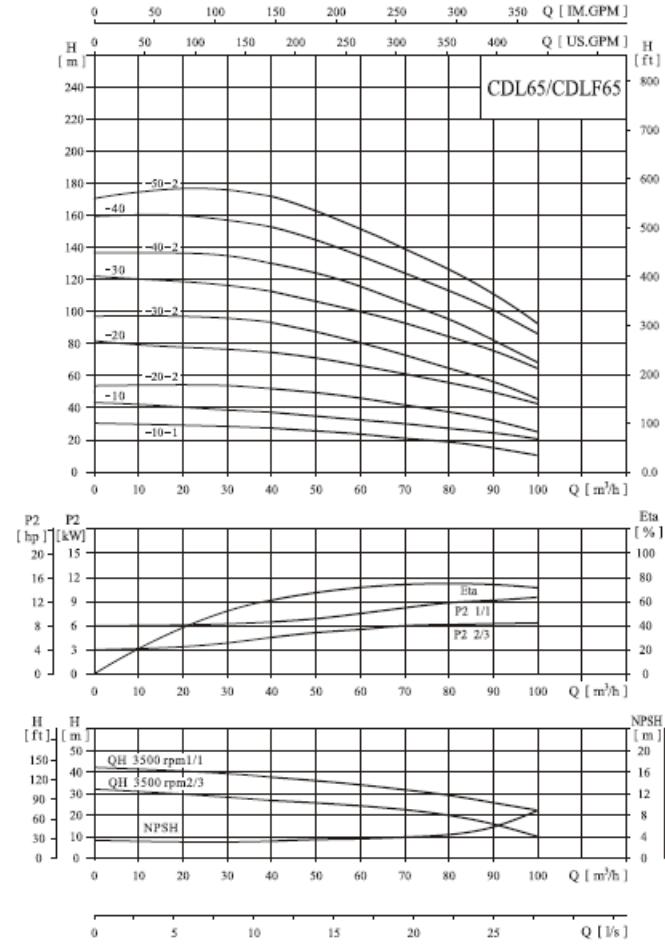
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**Performance table**

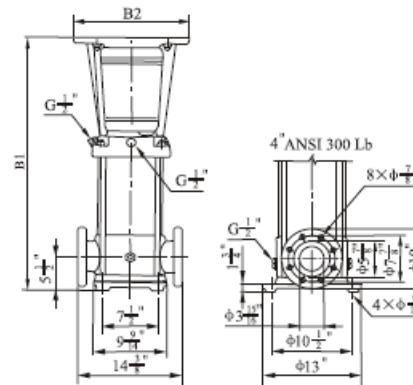
| Model | Driving motor (kW) | Frame | Q (m³/h) | 30 | 35 | 40 | 42 | 45 | 50 | 55 | 60 | 65 |
|------------|-----------------------|-------|---------------|-----|-----|-----|------|-----|-----|-----|-----|-----|
| CDL42-10-1 | 5.5 | 7.5 | 213TC | 29 | 28 | 27 | 26 | 25 | 23 | 21 | 19 | 16 |
| CDL42-10 | 7.5 | 10 | 215TC | 34 | 33 | 32 | 31.5 | 30 | 29 | 27 | 25 | 22 |
| CDL42-20-2 | 11 | 15 | 254TC | 57 | 55 | 53 | 52 | 49 | 46 | 43 | 38 | 33 |
| CDL42-20 | 15 | 20 | 256TC | 69 | 67 | 65 | 63 | 61 | 59 | 55 | 50 | 44 |
| CDL42-30-2 | 18.5 | 25 | 284TSC | 90 | 88 | 85 | 83 | 80 | 75 | 72 | 63 | 55 |
| CDL42-30 | 18.5 | 25 | 284TSC | 102 | 100 | 97 | 95 | 92 | 88 | 82 | 76 | 68 |
| CDL42-40-2 | 22 | 30 | 286TSC | 125 | 121 | 118 | 115 | 112 | 105 | 98 | 89 | 78 |
| CDL42-40 | 30 | 40 | 324TSC | 136 | 133 | 129 | 126 | 123 | 117 | 112 | 102 | 89 |
| CDL42-50-2 | 30 | 40 | 324TSC | 159 | 154 | 149 | 146 | 142 | 134 | 121 | 115 | 99 |
| CDL42-50 | 30 | 40 | 324TSC | 171 | 166 | 161 | 158 | 154 | 145 | 138 | 126 | 112 |
| CDL42-60-2 | 37 | 50 | 326TSC | 194 | 188 | 182 | 178 | 173 | 163 | 155 | 139 | 122 |
| CDL42-60 | 37 | 50 | 326TSC | 205 | 200 | 193 | 190 | 186 | 176 | 166 | 152 | 134 |
| CDL42-70-2 | 45 | 60 | 364TSC | 227 | 220 | 213 | 210 | 205 | 193 | 182 | 165 | 144 |
| CDL42-70 | 45 | 60 | 364TSC | 239 | 232 | 226 | 221 | 216 | 204 | 194 | 178 | 157 |

Installation sketch**Size and weight**

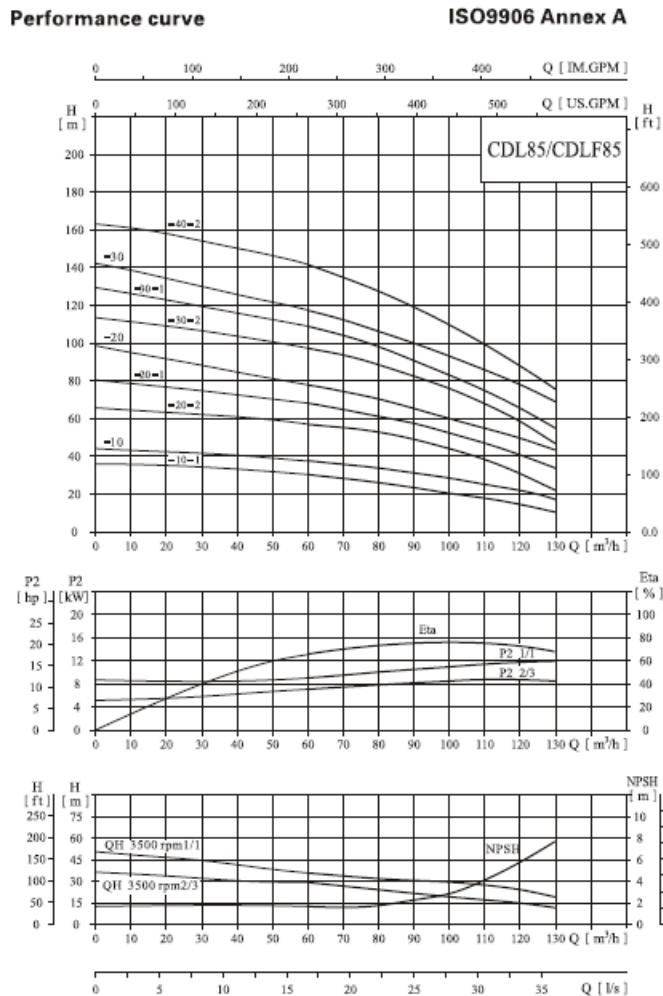
| Model | Size (in) | | Weight (lbs) |
|------------|-----------|----------|-----------------|
| | B1 | B2 | |
| CDL42-10-1 | 22 3/16 | 8 7/16 | 137 |
| CDL42-10 | 22 3/16 | 8 7/16 | 137 |
| CDL42-20-2 | 29 1/20 | 8 7/8 | 163 |
| CDL42-20 | 29 1/20 | 8 7/8 | 163 |
| CDL42-30-2 | 31 2/5 | 11 1/32 | 165 |
| CDL42-30 | 31 2/5 | 11 1/32 | 165 |
| CDL42-40-2 | 34 9/16 | 11 1/32 | 174 |
| CDL42-40 | 35 9/16 | 11 1/32 | 190 |
| CDL42-50-2 | 38 1/2 | 13 7/16 | 198 |
| CDL42-50 | 38 1/2 | 13 7/16 | 198 |
| CDL42-60-2 | 41 2/5 | 13 7/16 | 207 |
| CDL42-60 | 41 2/5 | 13 7/16 | 207 |
| CDL42-70-2 | 44 2/5 | 15 11/20 | 234 |
| CDL42-70 | 44 2/5 | 15 11/20 | 234 |

Performance curve**ISO9906 Annex A****Performance table**

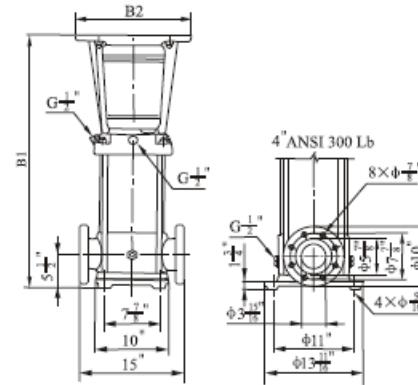
| Model | Driving motor (kW) (hp) | Frame | Q (m³/h) | 40 | 50 | 60 | 65 | 70 | 80 | 90 | 100 |
|------------|-------------------------------|-------|-------------|----------|-----|-----|-----|-----|-----|-----|-----|
| | | | | H (m) | 26 | 25 | 23 | 22 | 21 | 18 | 14 |
| CDL65-10-1 | 7.5 | 10 | 215TC | 37 | 35 | 33 | 32 | 31 | 28 | 24 | 21 |
| CDL65-10 | 11 | 15 | 254TC | 53 | 50 | 47 | 44 | 42 | 37 | 31 | 23 |
| CDL65-20-2 | 15 | 20 | 256TC | 74 | 72 | 67 | 64 | 62 | 57 | 51 | 42 |
| CDL65-20 | 22 | 30 | 286TSC | 93 | 88 | 80 | 76 | 72 | 65 | 56 | 45 |
| CDL65-30-2 | 22 | 30 | 286TSC | 112 | 108 | 100 | 96 | 93 | 86 | 77 | 65 |
| CDL65-30 | 30 | 40 | 324TSC | 130 | 124 | 115 | 110 | 103 | 94 | 83 | 66 |
| CDL65-40-2 | 30 | 40 | 324TSC | 152 | 144 | 135 | 130 | 123 | 114 | 102 | 86 |
| CDL65-40 | 37 | 50 | 326TSC | 172 | 162 | 151 | 144 | 137 | 126 | 112 | 91 |
| CDL65-50-2 | 45 | 60 | 364TSC | | | | | | | | |

Installation sketch**Size and weight**

| Model | Size (in) | | Weight (lbs) |
|------------|----------------------------------|----------------------------------|-----------------|
| | B1 | B2 | |
| CDL65-10-1 | 22 ⁸ / ₂₇ | 8 ⁷ / ₈ | 139 |
| CDL65-10 | 26 ¹ / ₄₂ | 8 ⁷ / ₈ | 157 |
| CDL65-20-2 | 29 ⁵ / ₁₇ | 8 ⁷ / ₈ | 168 |
| CDL65-20 | 28 ¹ / ₂ | 11 ¹ / ₁₆ | 161 |
| CDL65-30-2 | 31 ¹¹ / ₁₃ | 11 ¹ / ₃₁ | 172 |
| CDL65-30 | 32 ¹ / ₂ | 13 ⁷ / ₁₂ | 187 |
| CDL65-40-2 | 35 ¹⁶ / ₁₃ | 13 ⁷ / ₁₂ | 198 |
| CDL65-40 | 35 ¹⁵ / ₁₃ | 13 ⁷ / ₁₂ | 214 |
| CDL65-50-2 | 38 ⁵ / ₈ | 15 ¹¹ / ₂₀ | 225 |

Performance curve**Performance table**

| Model | Driving motor (kW) (hp) | Frame | Q (m³/h) | 60 | 70 | 80 | 85 | 90 | 100 | 110 | 120 | 130 |
|------------|-------------------------------|-------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| CDL85-10-1 | 11 | 15 | H (m) | 31 | 27 | 25 | 24 | 23 | 21 | 18 | 14 | 9 |
| CDL85-10 | 15 | 20 | | 36 | 35 | 33 | 31 | 30 | 29 | 26 | 23 | 18 |
| CDL85-20-2 | 18.5 | 25 | | 59 | 57 | 54 | 51 | 48 | 44 | 39 | 32 | 22 |
| CDL85-20-1 | 22 | 30 | | 67 | 65 | 62 | 59 | 57 | 51 | 47 | 41 | 33 |
| CDL85-20 | 30 | 40 | | 76 | 73 | 69 | 66 | 64 | 60 | 56 | 52 | 44 |
| CDL85-30-2 | 37 | 50 | | 98 | 94 | 88 | 85 | 82 | 75 | 69 | 59 | 46 |
| CDL85-30-1 | 37 | 50 | | 108 | 104 | 98 | 94 | 90 | 83 | 78 | 69 | 56 |
| CDL85-30 | 45 | 60 | | 116 | 111 | 105 | 102 | 97 | 93 | 88 | 79 | 69 |
| CDL85-40-2 | 45 | 60 | | 141 | 135 | 128 | 124 | 118 | 109 | 102 | 89 | 72 |

Installation sketch**Size and weight**

| Model | Size (in) | | Weight (lbs) |
|------------|-----------|----------|-----------------|
| | B1 | B2 | |
| CDL85-10-1 | 23 2/3 | 8 1/2 | 163 |
| CDL85-10 | 23 2/3 | 8 1/2 | 163 |
| CDL85-20-2 | 29 1/4 | 11 1/2 | 168 |
| CDL85-20-1 | 29 1/4 | 11 1/2 | 168 |
| CDL85-20 | 30 1/3 | 13 7/16 | 187 |
| CDL85-30-2 | 33 3/4 | 13 7/16 | 202 |
| CDL85-30-1 | 33 3/4 | 13 7/16 | 202 |
| CDL85-30 | 33 4/11 | 15 11/20 | 220 |
| CDL85-40-2 | 36 8/9 | 15 11/20 | 234 |