STAIRS

# CB,2, 4, 8, 12 CBI 2, 4 series
# HBI, HBN2, 4, 8, 12 series

## Horizontal Multistage Centrifugal Pumps 50, 60 Hz

STAIRS INDUSTRIAL CO., LTD.

## Performance range,50Hz

## Performance range,60Hz

## Applications

*Domestic
*Liquid transfer and circulation of liquids within light industry and farming
*Pressure boosting
*Air-conditioning systems
*Cooling systems or cooling machine
*Specialized OEM equipment

## Pump

The CB and CBI series are non-self priming, horizontal multistage centrifugal pumps. Pump is coupled with motor at the same shaft and mounted on a base-plate. The friendly design makes the pump suitable for installation in the small domestic or industrial water supply systems. The pump is fitted with a mechanical seal and through-going pump-motor shaft.

**CB:** The discharge and suction chamber are made of cast iron. The other parts of pump in contact with the liquid are made of stainless steel. EPDM or Viton O-rings are available as standard.

**CBI:** All parts of pump in contact with the liquid are made of stainless steel. EPDM or Viton O-rings are available as standard.

## Pipe connections:

| Connections | CB, CBI 2 | CB, CBI 4 | CB8 | CB12 |
|---|---|---|---|---|
| Suction port | Rp 1 | Rp 1 1/4 | Rp 1 1/2 | Rp 1 1/2 |
| Discharge port | Rp 1 | Rp 1 | Rp 1 1/4 | Rp 1 1/2 |
| Drain hole, priming hole | Rc 3/8 | Rc 3/8 | Rp 1/2 | Rp 1/2 |

## Motor

The pump is fitted with a totally enclosed, fan-cooled, squirrel-cage motor.
Single-phase motors have built-in thermal overload protection.
Rated speed: 2850rpm(50Hz), 3450rpm(60Hz)
Enclosure class: IP 54
Insulation class: F

## Standard voltages:

| | Phase | voltages |
|---|---|---|
| 50Hz | 1Φ | 220-240V |
| | 3Φ | 220-240V / 380-415V |
| 60Hz | 1Φ | 110 / 220V |
| | | 220-240V |
| | 3Φ | 220-255V / 380-440V |
| | | 220-277V / 380-480V |

## Operating conditions

Liquid temperature range: 0°C ~+90°C
Maximum ambient temperature: +40°C
Maximum operating pressure: 10 kg /cm$^2$.
Maximum inlet pressure is limited by maximum operating pressure.

## Model code

| Type range | Nominal flow rate [m³/h] | | Number of stages x10 | | Mechanical Seals |
|---|---|---|---|---|---|
| CB(I) 2 , 4 | 4 | - | 30 | - | CQBE |

| Type range | Nominal flow rate [m³/h] | | Max. discharge pressure[m] | | Mechanical Seals |
|---|---|---|---|---|---|
| CB 8 , 12 | 8 | - | 30 | - | CQBE |

## Operating conditions

Liquid: CB : Thin, clean, non-aggressive and non-explosive liquids without solid particles or fibres.
CBI : Thin, clean, slightly aggressive and non-explosive liquids without solid particles or fibres.

Liquid temperature range: 0°C ~ +90°C.

Maximum ambient temperature: +50°C.

The maximum operating pressure depends on the temperature of the pumped liquid, see table:

| Max. operating pressure | 10 kg/cm² / bar | 6 kg/cm² / bar |
|---|---|---|
| CB( I )2, CB( I )4 | 0°C to + 40°C | +41°C to + 90°C |
| CB 8,CB12 | 0°C to + 55°C | +56°C to + 90°C |

Min. inlet pressure: According to the NPSH curve + a safety margin of 0.5m.

Max. inlet pressure: Limited by the max. operating pressure.

## Mechanical seals

| List of Materials | |
|---|---|
| Q : Silicon carbide | E : EPDM |
| U : Tungsten carbide | V : Viton |
| B : Carbon | C : Seal Type |
| H : Seal Type | |

| Mechanical Seals | CB, CBI 2/4 | CB 8,12 |
|---|---|---|
| CQB | ● | ● |
| CQQ | Optional | Optional |
| HUU | Optional | Optional |
| O-rings | | |
| E | ● | ● |
| V | Optional | Optional |

● Standard

## Material construction

### CB(I) 2,4

### CB 8,12

## Materials

| Pos. | Description | Materials | |
|---|---|---|---|
| | | CB | CBI |
| 1 | Suction chamber | Cast iron | SS304 |
| 2 | Pump head | Cast iron | SS304 |
| 3 | Intermediate chamber | SS304 | SS304 |
| 4 | Impeller | SS304 | SS304 |
| 5 | Spacing pipe | SS304 | SS304 |
| 6 | Shaft | SS431 | SS431 |
| 7 | Mechanical seal | Silicon carbide / Carbon | Silicon carbide / Carbon |
| 8 | O-ring | EPDM | EPDM |
| 9 | Drain and priming plug | Steel | SS304 |
| 10 | Base plate | Steel | SS304 |

## Performance curves 50Hz

## Electrical data, 2850 rpm

| Pump type | 1Φ 220-240V | | | 3Φ △220-240V / Y 380-415V | | |
|---|---|---|---|---|---|---|
| | $I_{1/1}$ [A] | $P_1$ [W] | $P_2$ [W] | $I_{1/1}$ [A] | $P_1$ [W] | $P_2$ [W] |
| CB/CBI 2-20 | 1.7 - 2.0 | 380 | 295 | 2.2 - 2.6 / 1.3 - 1.5 | 430 | 330 |
| CB/CBI 2-30 | 2.1 - 2.2 | 470 | 360 | 2.2 - 2.5 / 1.3 - 1.45 | 530 | 410 |
| CB/CBI 2-40 | 2.7 - 2.8 | 620 | 480 | 2.4 - 2.8 / 1.4 - 1.6 | 660 | 510 |
| CB/CBI 2-50 | 3.2 - 3.1 | 720 | 550 | 2.5 - 2.9 / 1.45- 1.7 | 770 | 585 |
| CB/CBI 2-60 | 3.7 - 3.6 | 830 | 630 | 2.9 - 3.3 / 1.7 - 1.9 | 860 | 655 |

## Performance curves 50Hz

## Electrical data, 2850 rpm

| Pump type | 1Φ 220-240V | | | 3Φ △220-240V / Y 380-415V | | |
|---|---|---|---|---|---|---|
| | $I_{1/1}$ [A] | $P_1$ [W] | $P_2$ [W] | $I_{1/1}$ [A] | $P_1$ [W] | $P_2$ [W] |
| CB/CBI 4-20 | 2.6 - 2.5 | 560 | 430 | 2.4 - 2.9 / 1.4 - 1.7 | 610 | 465 |
| CB/CBI 4-30 | 3.6 - 3.5 | 770 | 595 | 2.5 - 2.9 / 1.5 - 1.7 | 790 | 604 |
| CB/CBI 4-40 | 4.4 - 4.1 | 960 | 735 | 3.1 - 3.3 / 1.8 - 1.9 | 1010 | 770 |
| CB/CBI 4-50 | 5.3 - 5.0 | 1160 | 940 | 4.2 - 4.5 / 2.4 - 2.6 | 1240 | 990 |
| CB/CBI 4-60 | 6.7 - 6.4 | 1430 | 1135 | 5.1 - 5.5 / 2.9 - 3.2 | 1460 | 1180 |

## Dimensions and weights 50 Hz

### CB-2 , CB-4

| pump type | mm | | | | | | | | | Kg | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | L1 | L2 | L3 | L4 | B1 | B2 | | H | | | |
| | | | | | | 1phase | 3phase | 1phase | 3phase | 1phase | 3phase |
| CB 2-20 | 309 | 75 | 63 | 101 | 141 | 127 | 115 | 228 | 207 | 10.3 | 10.0 |
| CB 2-30 | 327 | 93 | 81 | 119 | 141 | 127 | 115 | 228 | 207 | 10.5 | 10.3 |
| CB 2-40 | 345 | 111 | 99 | 137 | 141 | 127 | 115 | 228 | 207 | 10.8 | 10.5 |
| CB 2-50 | 363 | 129 | 117 | 155 | 141 | 127 | 115 | 228 | 207 | 11.6 | 11.2 |
| CB 2-60 | 381 | 147 | 135 | 173 | 141 | 127 | 115 | 228 | 207 | 11.8 | 11.5 |
| CB 4-20 | 318 | 84 | 72 | 110 | 141 | 127 | 115 | 228 | 207 | 10.4 | 10.1 |
| CB 4-30 | 344 | 111 | 99 | 137 | 141 | 127 | 115 | 228 | 207 | 10.8 | 10.5 |
| CB 4-40 | 372 | 138 | 126 | 164 | 141 | 127 | 115 | 228 | 207 | 11.6 | 11.2 |
| CB 4-50 | 438 | 165 | 153 | 191 | 141 | 127 | 115 | 228 | 207 | 13.4 | 13.1 |
| CB 4-60 | 465 | 192 | 180 | 218 | 141 | 127 | 115 | 228 | 207 | 14.8 | 14.5 |

### CBI-2 , CBI-4

| pump type | mm | | | | | | | | | Kg | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | L1 | L2 | L3 | L4 | B1 | B2 | | H | | | |
| | | | | | | 1phase | 3phase | 1phase | 3phase | 1phase | 3phase |
| CBI 2-20 | 309 | 75 | 63 | 101 | 141 | 127 | 115 | 228 | 207 | 9.1 | 8.8 |
| CBI 2-30 | 327 | 93 | 81 | 119 | 141 | 127 | 115 | 228 | 207 | 9.4 | 9.1 |
| CBI 2-40 | 345 | 111 | 99 | 137 | 141 | 127 | 115 | 228 | 207 | 9.6 | 9.4 |
| CBI 2-50 | 363 | 129 | 117 | 155 | 141 | 127 | 115 | 228 | 207 | 10.4 | 10.1 |
| CBI 2-60 | 381 | 147 | 135 | 173 | 141 | 127 | 115 | 228 | 207 | 10.7 | 10.3 |
| CBI 4-20 | 318 | 84 | 72 | 110 | 141 | 127 | 115 | 228 | 207 | 9.2 | 9.0 |
| CBI 4-30 | 344 | 111 | 99 | 137 | 141 | 127 | 115 | 228 | 207 | 9.6 | 9.3 |
| CBI 4-40 | 372 | 138 | 126 | 164 | 141 | 127 | 115 | 228 | 207 | 10.4 | 10.1 |
| CBI 4-50 | 438 | 165 | 153 | 191 | 141 | 127 | 115 | 228 | 207 | 11.3 | 12.0 |
| CBI 4-60 | 465 | 192 | 180 | 218 | 141 | 127 | 115 | 228 | 207 | 13.6 | 13.4 |

## Performance curves 50Hz

## Electrical data, 2850 rpm

| Pump type | 1Φ 220-240V | | | 3Φ △220-240V / Y 380-415V | | |
|---|---|---|---|---|---|---|
| | $I_{1/1}$ [A] | $P_1$ [W] | $P_2$ [W] | $I_{1/1}$ [A] | $P_1$ [W] | $P_2$ [W] |
| CB 8-20 | 3.3 - 3.2 | 760 | 595 | 2.9 - 3.3 / 1.7 - 1.9 | 810 | 620 |
| CB 8-25 | — | — | — | 3.5 - 3.8 / 2.0 - 2.2 | 1060 | 860 |
| CB 8-30 | 5.2 - 5.0 | 1130 | 910 | 4.3 - 4.8 / 2.5 - 2.8 | 1260 | 1020 |
| CB 8-40 | 6.3 - 6.1 | 1390 | 1105 | 5.7 - 6.3 / 3.3 - 3.7 | 1520 | 1205 |
| CB 8-50 | 8.2 - 8.1 | 1940 | 1610 | 5.7 - 6.3 / 3.4 - 3.7 | 1860 | 1475 |
| CB 8-60 | 9.0 - 8.8 | 2090 | 1740 | 6.5 - 7.0 / 3.8 - 4.1 | 2110 | 1755 |

## Performance curves 50Hz

## Electrical data, 2850 rpm

| Pump type | 1Φ 220-240V | | | 3Φ △220-240V / Y 380-415V | | |
|---|---|---|---|---|---|---|
| | $I_{1/1}$ [A] | $P_1$ [W] | $P_2$ [W] | $I_{1/1}$ [A] | $P_1$ [W] | $P_2$ [W] |
| CB 12-10 | — | — | — | 2.8 - 3.1 / 1.6 - 1.8 | 590 | 455 |
| CB 12-20 | 5.3 - 5.1 | 1160 | 935 | 3.8 - 4.0 / 2.2 - 2.3 | 1170 | 950 |
| CB 12-30 | 7.8 - 7.4 | 1680 | 1330 | 5.7 - 6.5 / 3.3 - 3.8 | 1690 | 1365 |
| CB 12-40 | 11.0 - 10.6 | 2400 | 1995 | 7.3 - 7.6 / 4.2 - 4.4 | 2350 | 1960 |
| CB 12-50 | 12.7 - 12.2 | 2910 | 2440 | 8.8 - 9.0 / 5.1 - 5.2 | 2820 | 2375 |
| CB 12-60 | — | — | — | 10.6-11.4 / 6.1 - 6.6 | 3320 | 2860 |

## Dimensions and weights 50 Hz

Fig. 1

Fig. 2

### CB - 8

| Pump type | Dimension [ mm ] | | | | | | | | | | | | | | | | | | | | Fig. | | Net Weight [ mm ] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 phase | | | | | | | | | | 3 phase | | | | | | | | | | | | | |
| | L1 | L2 | L3 | L4 | B1 | B2 | H1 | H2 | H3 | H4 | L1 | L2 | L3 | L4 | B1 | B2 | H1 | H2 | H3 | H4 | 1Φ | 3Φ | 1Φ | 3Φ |
| CB 8-20 | 320 | 54 | 41 | 77 | 181 | 135 | 110 | 187 | 239 | 245 | 320 | 54 | 41 | 77 | 181 | 114 | 110 | 187 | 239 | 224 | 1 | 1 | 17.2 | 17.0 |
| CB 8-25 | - | - | - | 107 | - | - | 110 | 187 | 239 | - | 390 | 84 | 71 | 107 | 181 | 114 | 110 | 187 | 239 | 224 | - | 1 | - | 19.1 |
| CB 8-30 | 390 | 84 | 71 | 107 | 181 | 135 | 110 | 187 | 239 | 245 | 390 | 84 | 71 | 107 | 181 | 114 | 110 | 187 | 239 | 224 | 1 | 1 | 19.5 | 19.2 |
| CB 8-40 | 390 | 84 | 71 | 107 | 181 | 135 | 110 | 187 | 239 | 245 | 390 | 84 | 71 | 107 | 181 | 114 | 110 | 187 | 239 | 224 | 1 | 1 | 20.7 | 20.5 |
| CB 8-50 | 480 | 162 | 111 | 137 | 185 | 152 | 110 | 187 | 239 | 262 | 420 | 114 | 101 | 137 | 181 | 114 | 110 | 187 | 239 | 224 | 2 | 1 | 28.5 | 21.4 |
| CB 8-60 | 480 | 162 | 111 | 137 | 185 | 152 | 110 | 187 | 239 | 262 | 480 | 162 | 111 | 137 | 185 | 139 | 110 | 187 | 239 | 249 | 2 | 2 | 28.7 | 27.6 |

### CB - 12

| Pump type | Dimension [ mm ] | | | | | | | | | | | | | | | | | | | | Fig. | | Net Weight [ mm ] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 phase | | | | | | | | | | 3 phase | | | | | | | | | | | | | |
| | L1 | L2 | L3 | L4 | B1 | B2 | H1 | H2 | H3 | H4 | L1 | L2 | L3 | L4 | B1 | B2 | H1 | H2 | H3 | H4 | 1Φ | 3Φ | 1Φ | 3Φ |
| CB 12-10 | - | - | - | 77 | - | - | 110 | 187 | 239 | - | 320 | 54 | 41 | 77 | 181 | 114 | 110 | 187 | 239 | 224 | - | 1 | - | 17.9 |
| CB 12-20 | 360 | 54 | 41 | 77 | 181 | 135 | 110 | 187 | 239 | 245 | 360 | 54 | 41 | 77 | 181 | 114 | 110 | 187 | 239 | 224 | 1 | 1 | 18.4 | 18.2 |
| CB 12-30 | 390 | 84 | 71 | 107 | 181 | 135 | 110 | 187 | 239 | 245 | 390 | 84 | 71 | 107 | 181 | 114 | 110 | 187 | 239 | 224 | 1 | 1 | 20.6 | 20.4 |
| CB 12-40 | 450 | 132 | 81 | 107 | 185 | 152 | 110 | 187 | 239 | 262 | 450 | 132 | 81 | 107 | 185 | 139 | 110 | 187 | 239 | 249 | 2 | 2 | 27.7 | 26.7 |
| CB 12-50 | 480 | 162 | 111 | 137 | 185 | 152 | 110 | 187 | 239 | 262 | 480 | 162 | 111 | 137 | 185 | 139 | 110 | 187 | 239 | 249 | 2 | 2 | 29.8 | 29.9 |
| CB 12-60 | - | - | - | 137 | - | - | 122 | 199 | 251 | - | 501 | 162 | 111 | 137 | 196 | 150 | 122 | 199 | 251 | 272 | - | 2 | - | 35.2 |

## Performance curves 60 Hz

## Electrical data, 3450 rpm

| Pump type | 1Φ 110 / 220V | | | 3Φ △ 220-255 / Y 380-440 V | | |
|---|---|---|---|---|---|---|
| | $I_{1/1}$ [A] | $P_1$ [W] | $P_2$ [W] | $I_{1/1}$ [A] | $P_1$ [W] | $P_2$ [W] |
| CB/CBI 2-20 | 6.3 / 3.2 | 570 | 460 | 1.8 - 1.9 / 1.0 - 1.1 | 550 | 430 |
| CB/CBI 2-30 | 7.9 / 4.1 | 780 | 630 | 3.5 - 3.3 / 2.0 - 1.9 | 680 | 540 |
| CB/CBI 2-40 | 8.8 / 4.4 | 870 | 710 | 3.1 - 3.2 / 1.8 - 1.9 | 950 | 725 |
| CB/CBI 2-50 | 11.7 / 5.9 | 1190 | 995 | 3.7 - 3.8 / 2.1 - 2.2 | 1160 | 940 |
| CB/CBI 2-60 | 13.7 / 6.9 | 1410 | 1180 | 3.7 - 3.8 / 6.4 - 6.6 | 1280 | 1060 |

## Performance curves 60Hz

## Electrical data, 3450 rpm

| Pump type | 1Φ 110 / 220V | | | 3Φ △ 220-255 / Y 380-440 V | | |
|---|---|---|---|---|---|---|
| | $I_{1/1}$ [A] | $P_1$ [W] | $P_2$ [W] | $I_{1/1}$ [A] | $P_1$ [W] | $P_2$ [W] |
| CB/CBI 4-20 | 9.5 / 4.7 | 950 | 770 | 2.85 - 3.0 / 1.65 - 1.8 | 890 | 720 |
| CB/CBI 4-30 | 12.5 / 6.2 | 1310 | 1100 | 3.9 - 4.0 / 2.3 - 2.4 | 1250 | 1050 |
| CB/CBI 4-40 | — / 8.3 | 1700 | 1360 | 5.1 - 5.3 / 2.9 - 3.1 | 1630 | 1310 |

## Dimensions and weights 60 Hz

### CB-2,CB-4

| pump type | mm | | | | | | | | | Kg | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | L1 | L2 | L3 | L4 | B1 | B2 | | H | | | |
| | | | | | | 1phase | 3phase | 1phase | 3phase | 1phase | 3phase |
| CB 2-20 | 309 | 75 | 63 | 101 | 141 | 127 | 115 | 228 | 207 | 10.3 | 10.0 |
| CB 2-30 | 327 | 93 | 81 | 119 | 141 | 127 | 115 | 228 | 207 | 11.1 | 10.8 |
| CB 2-40 | 345 | 111 | 99 | 137 | 141 | 127 | 115 | 228 | 207 | 11.3 | 11.1 |
| CB 2-50 | 403 | 129 | 117 | 155 | 141 | 127 | 115 | 228 | 207 | 13 | 12.4 |
| CB 2-60 | 421 | 147 | 135 | 173 | 141 | 127 | 115 | 228 | 207 | 13.2 | 12.7 |
| CB 4-20 | 318 | 84 | 72 | 110 | 141 | 127 | 115 | 228 | 207 | 12.2 | 10.7 |
| CB 4-30 | 384 | 111 | 99 | 137 | 141 | 127 | 115 | 228 | 207 | 12.7 | 12.3 |
| CB 4-40 | 412 | 138 | 126 | 164 | 141 | 127 | 115 | 228 | 207 | 14 | 13.7 |

### CBI-2,CBI-4

| pump type | mm | | | | | | | | | Kg | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | L1 | L2 | L3 | L4 | B1 | B2 | | H | | | |
| | | | | | | 1phase | 3phase | 1phase | 3phase | 1phase | 3phase |
| CBI 2-20 | 309 | 75 | 63 | 101 | 141 | 127 | 115 | 228 | 207 | 9.1 | 8.8 |
| CBI 2-30 | 327 | 93 | 81 | 119 | 141 | 127 | 115 | 228 | 207 | 10.0 | 9.6 |
| CBI 2-40 | 345 | 111 | 99 | 137 | 141 | 127 | 115 | 228 | 207 | 10.2 | 10.0 |
| CBI 2-50 | 403 | 129 | 117 | 155 | 141 | 127 | 115 | 228 | 207 | 11.8 | 11.5 |
| CBI 2-60 | 421 | 147 | 135 | 173 | 141 | 127 | 115 | 228 | 207 | 12.1 | 11.7 |
| CBI 4-20 | 318 | 84 | 72 | 110 | 141 | 127 | 115 | 228 | 207 | 9.8 | 9.5 |
| CBI 4-30 | 384 | 111 | 99 | 137 | 141 | 127 | 115 | 228 | 207 | 11.5 | 11.1 |
| CBI 4-40 | 412 | 138 | 126 | 164 | 141 | 127 | 115 | 228 | 207 | 12.8 | 12.6 |

## Performance curves 60Hz

## Electrical data, 3450 rpm

| Pump type | 1Φ 110 / 220V | | | 3Φ △ 220-255 / Y 380-440 V | | |
|---|---|---|---|---|---|---|
| | $I_{1/1}$ [A] | $P_1$ [W] | $P_2$ [W] | $I_{1/1}$ [A] | $P_1$ [W] | $P_2$ [W] |
| CB 8-20 | 11.7 / 5.9 | 1250 | 1050 | 3.7 - 3.8 / 2.2 - 2.3 | 1220 | 1020 |
| CB 8-25 | — | — | — | 4.8 - 5.0 / 2.8 - 2.9 | 1620 | 1295 |
| CB 8-30 | — / 8.9 | 1830 | 1510 | 5.7 - 5.5 / 3.3 - 3.2 | 1860 | 1490 |
| CB 8-40 | — / 10.4 | 2080 | 1720 | 3Φ △ 220-277 / Y 380-480 V | | |
| | | | | 6.4 - 5.9 / 3.7 - 3.4 | 2340 | 1930 |

## Performance curves 60Hz

## Electrical data, 3450 rpm

| Pump type | 1Φ 110 / 220V | | | 3Φ △ 220-255 / Y 380-440 V | | |
|---|---|---|---|---|---|---|
| | $I_{1/1}$ [A] | $P_1$ [W] | $P_2$ [W] | $I_{1/1}$ [A] | $P_1$ [W] | $P_2$ [W] |
| CB 12-10 | — | — | — | 3.5 - 3.7 / 2.0 - 2.1 | 910 | 765 |
| CB 12-20 | — / 9.4 | 2120 | 1750 | 6.0 - 5.9 / 3.5 - 3.4 | 1960 | 1570 |
| | | | | 3Φ △ 220-277 / Y 380-480 V | | |
| CB 12-30 | — | — | — | 8.8 - 10.2 / 5.1 - 5.9 | 2940 | 2430 |
| CB 12-40 | — | — | — | 11.2 - 11.3 / 6.5 - 6.6 | 3810 | 3250 |

## Dimensions and Weights 60Hz

Fig. 1

Fig. 2

### CB - 8

| Pump type | Dimension [ mm ] | | | | | | | | | | | | | | | | | | | | Fig. | | Net Weight [ mm ] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 phase | | | | | | | | | | 3 phase | | | | | | | | | | | | | |
| | L1 | L2 | L3 | L4 | B1 | B2 | H1 | H2 | H3 | H4 | L1 | L2 | L3 | L4 | B1 | B2 | H1 | H2 | H3 | H4 | 1Φ | 3Φ | 1Φ | 3Φ |
| CB 8-20 | 360 | 54 | 41 | 77 | 181 | 135 | 110 | 187 | 239 | 245 | 360 | 54 | 41 | 77 | 181 | 114 | 110 | 187 | 239 | 224 | 1 | 1 | 18.6 | 18.4 |
| CB 8-25 | - | - | - | 107 | - | - | 110 | 187 | 239 | - | 390 | 84 | 71 | 107 | 181 | 114 | 110 | 187 | 239 | 224 | - | 1 | - | 20.3 |
| CB 8-30 | 450 | 132 | 81 | 107 | 185 | 152 | 110 | 187 | 239 | 262 | 390 | 84 | 71 | 107 | 181 | 114 | 110 | 187 | 239 | 224 | 2 | 1 | 26.6 | 20.4 |
| CB 8-40 | 450 | 132 | 81 | 107 | 185 | 152 | 110 | 187 | 239 | 262 | 450 | 132 | 81 | 107 | 185 | 139 | 110 | 187 | 239 | 249 | 2 | 2 | 26.8 | 26.8 |

### CB - 12

| Pump type | Dimension [ mm ] | | | | | | | | | | | | | | | | | | | | Fig. | | Net Weight [ mm ] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 phase | | | | | | | | | | 3 phase | | | | | | | | | | | | | |
| | L1 | L2 | L3 | L4 | B1 | B2 | H1 | H2 | H3 | H4 | L1 | L2 | L3 | L4 | B1 | B2 | H1 | H2 | H3 | H4 | 1Φ | 3Φ | 1Φ | 3Φ |
| CB 12-10 | - | - | - | 77 | - | - | 110 | 187 | 239 | - | 360 | 54 | 41 | 77 | 181 | 114 | 110 | 187 | 239 | 224 | - | 1 | - | 16.2 |
| CB 12-20 | 420 | 102 | 51 | 77 | 185 | 152 | 110 | 187 | 239 | 262 | 360 | 54 | 41 | 77 | 181 | 114 | 110 | 187 | 239 | 224 | 2 | 1 | 25.8 | 19.1 |
| CB 12-30 | - | - | - | 107 | - | - | 110 | 187 | 239 | - | 450 | 132 | 81 | 107 | 185 | 139 | 110 | 187 | 239 | 249 | - | 2 | - | 28.9 |
| CB 12-40 | - | - | - | 107 | - | - | 122 | 199 | 251 | - | 471 | 132 | 81 | 107 | 196 | 150 | 122 | 199 | 251 | 272 | - | 2 | - | 34.2 |

STAIRS

www.stairs.com.tw

Subject to alterations

201903