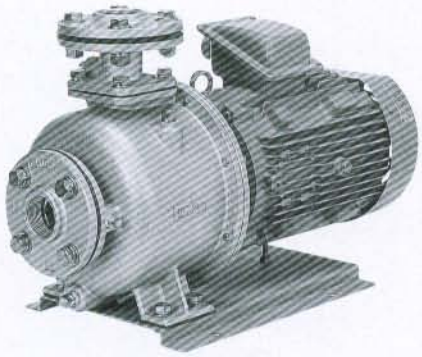
# KR$^{4}_{5}$-C Stainless steel Multi-stage Turbine pump

2 pole Quiet operation sound
Preventing red discolourment of water



## Applications

- Preventing red discolourment of water
- Wter supply to buildings
- Cooling water
- Industry
- Small regional drinking watrer supply
- Other general water supply

## Features

- Main parts are durable precision cast stainless steel.
- Quiet sound design of pump and electric motor enable pump unit operation with lower noise.
- Easy maintenance and inspection due to back pull out construction
- TEFC electric motor as standard
- Compact and light weight design

## Standard specifications

- Liquid: Clean water 0 ~ 40℃
- Materials: Impeller Resin or SCS or CAC406 (BC6)
  Shaft SUS304 (portion contacting water)
  Casing SCS13
- Shaft sealing: Mechnical seal (Ceramic x carbon)
  Shaft sealing : Mechanical seal (SiC x Carbon)
- Motor: TEFC
- Flange: JIS 10K thin type

## Standard accessories

Base, companion flange (bolts & nuts), connect pipe

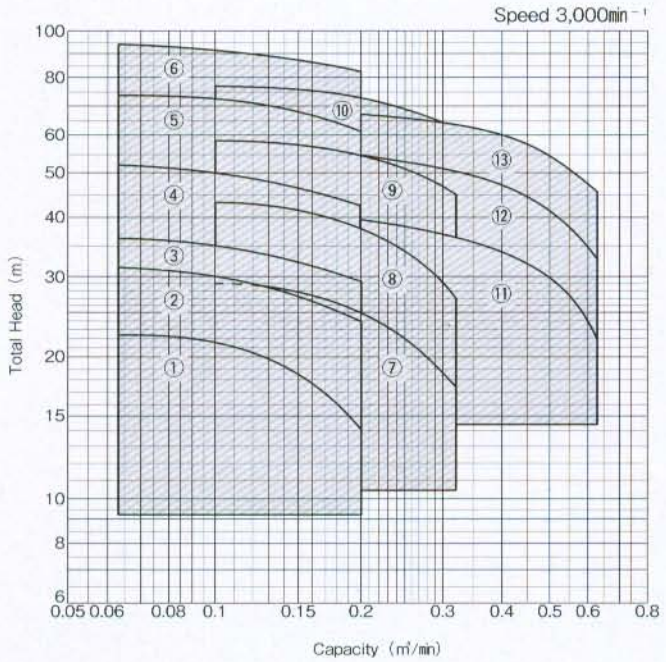
## Maximum back pressure

$$\left(0.98-\frac{\text{Total head at zero flow (m)} \times 0.098}{10}\right)\text{MPa}\left\{10-\frac{\text{Total head at zero flow (m)}}{10}\right\}\text{kgf/cm}^2$$

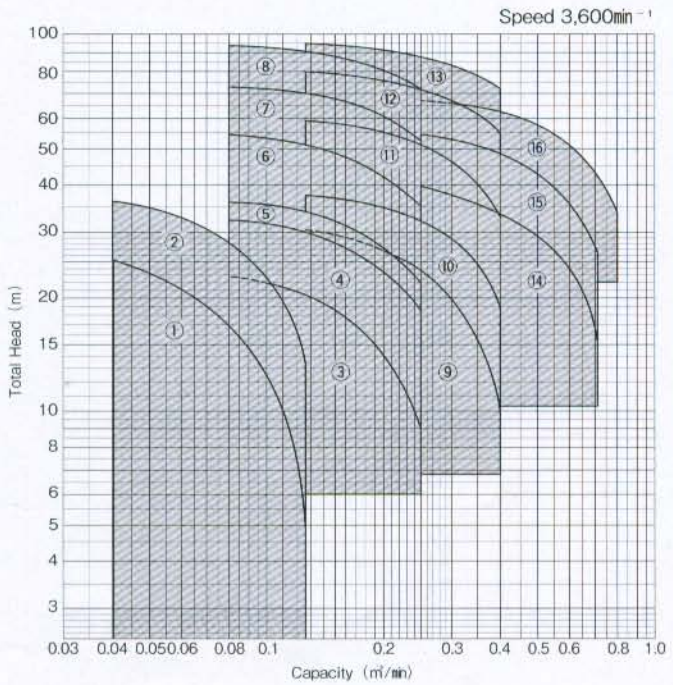
## Maximum suction head

− 6m (20℃)

## Selection chart 50Hz




## Selection chart 60Hz

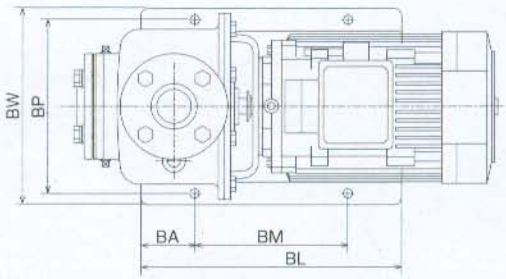


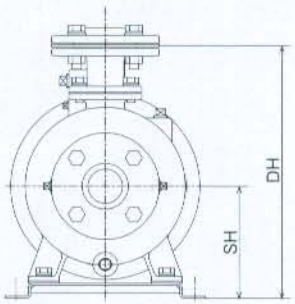
## ■ Specification & outline dimension table

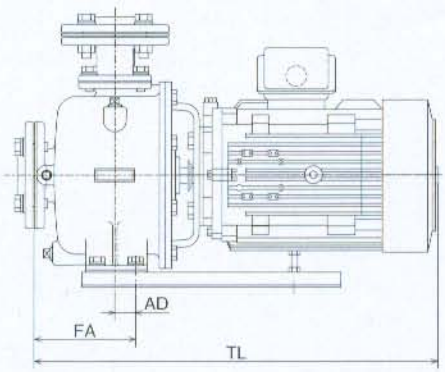
Inquire specification sheets and drawings in case of acutual work planning

Flange : JIS10K thin type

The drawing shows example of 1.5kW model




### ■ 50Hz

| Suction Bore | Discharge Bore | Ref | Model | Motor | Performance | | | | | | Max. Back pressure | Dimensions (mm) | | | | | | | | | | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Capacity | Head | Capacity | Head | Capacity | Head | | | | | | | | | | | | |
| mm | mm | | | kW | m³/min | m | m³/min | m | m³/min | m | MPa {kgf/cm²} | TL | AD | FA | DH | SH | BL | BA | BM | BP | BW | kg |
| 40 | 40 | 1 | KR4-405-CN0.75 | 0.75 | 0.063 | 22.5 | 0.125 | 20 | 0.2 | 14 | 0.75 {7.7} | 425 | 27 | 87 | 332 | 148 | 340 | 70 | 200 | 230 | 260 | 32 |
| | | 2 | KR4-405-CN1.1 | 1.1 | 0.063 | 31 | 0.125 | 28.5 | 0.2 | 24 | 0.68 {6.9} | 461 | 27 | 87 | 332 | 148 | 340 | 70 | 200 | 230 | 260 | 36 |
| | | 3 | KR5-405-C1.5 | 1.5 | 0.063 | 36 | 0.125 | 33.5 | 0.2 | 29 | 0.63 {6.4} | 460 | 27 | 87 | 332 | 148 | 340 | 70 | 200 | 230 | 260 | 42 |
| | | 4 | KR5-405-C2.2 | 2.2 | 0.063 | 51 | 0.125 | 48 | 0.2 | 42 | 0.48 {4.9} | 492 | 27 | 129 | 332 | 148 | 340 | 70 | 200 | 230 | 260 | 44 |
| | | 5 | KR5-405-C3.7 | 3.7 | 0.063 | 74 | 0.125 | 70 | 0.2 | 61 | 0.25 {2.6} | 536 | 22 | 127 | 375 | 173 | 410 | 80 | 250 | 280 | 314 | 59 |
| | | 6 | KR5-405-C5.5 | 5.5 | 0.063 | 93.5 | 0.125 | 89.5 | 0.2 | 81 | 0.059 {0.6} | 595 | 22 | 127 | 375 | 173 | 410 | 80 | 250 | 280 | 314 | 78 |
| 50 | 40 | 7 | KR5-505-C1.5 | 1.5 | 0.1 | 29 | 0.2 | 25 | 0.315 | 17.5 | 0.70 {7.1} | 460 | 27 | 87 | 332 | 148 | 340 | 70 | 200 | 230 | 260 | 43 |
| | | 8 | KR5-505-C2.2 | 2.2 | 0.1 | 43 | 0.2 | 38 | 0.315 | 27 | 0.56 {5.7} | 492 | 27 | 129 | 332 | 148 | 340 | 70 | 200 | 230 | 260 | 47 |
| | | 9 | KR5-505-C3.7 | 3.7 | 0.1 | 58 | 0.2 | 54 | 0.315 | 45 | 0.41 {4.2} | 532 | 27 | 129 | 332 | 148 | 340 | 70 | 200 | 230 | 260 | 50 |
| | | 10 | KR5-505-C5.5 | 5.5 | 0.1 | 76 | 0.2 | 72 | 0.315 | 63 | 0.24 {2.4} | 595 | 22 | 127 | 375 | 173 | 410 | 80 | 250 | 280 | 314 | 78 |
| 65 | 50 | 11 | KR5-655-C3.7 | 3.7 | 0.2 | 39.5 | 0.4 | 34 | 0.63 | 21.5 | 0.59 {6.0} | 516 | 20 | 120 | 338 | 173 | 410 | 80 | 250 | 280 | 314 | 58 |
| | | 12 | KR5-655-C5.5 | 5.5 | 0.2 | 54.5 | 0.4 | 47 | 0.63 | 32 | 0.44 {4.5} | 575 | 20 | 120 | 383 | 193 | 410 | 80 | 250 | 280 | 314 | 78 |
| | | 13 | KR5-655-C7.5 | 7.5 | 0.2 | 67 | 0.4 | 60 | 0.63 | 45 | 0.32 {3.3} | 596 | 20 | 120 | 383 | 193 | 410 | 80 | 250 | 280 | 314 | 101 |

### ■ 60Hz

| Suction Bore | Discharge Bore | Ref | Model | Motor | Performance | | | | | | Max. Back pressure | Dimensions (mm) | | | | | | | | | | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Capacity | Head | Capacity | Head | Capacity | Head | | | | | | | | | | | | |
| mm | mm | | | kW | m³/min | m | m³/min | m | m³/min | m | MPa {kgf/cm²} | TL | AD | FA | DH | SH | BL | BA | BM | BP | BW | kg |
| 32 | 40 | 1 | KR4-326-CN0.4S | 0.4※1 | 0.04 | 25 | 0.08 | 17 | 0.125 | 4 | 0.44 {4.5} | 419 | 27 | 99 | 332 | 148 | 340 | 70 | 200 | 230 | 260 | 29 |
| | | 2 | KR4-326-CN0.75S2 | 0.75※2 | 0.04 | 36 | 0.08 | 28 | 0.125 | 13.5 | 0.63 {6.4} | 465 | 27 | 99 | 332 | 148 | 340 | 70 | 200 | 230 | 260 | 33 |
| 40 | 40 | 3 | KR4-406-CN0.75 | 0.75 | 0.08 | 22.5 | 0.16 | 17.5 | 0.25 | 9 | 0.75 {7.7} | 425 | 27 | 87 | 332 | 148 | 340 | 70 | 200 | 230 | 260 | 32 |
| | | 4 | KR4-406-CN1.1 | 1.1 | 0.08 | 32 | 0.16 | 27.5 | 0.25 | 18.5 | 0.67 {6.8} | 461 | 27 | 87 | 332 | 148 | 340 | 70 | 200 | 230 | 260 | 36 |
| | | 5 | KR5-406-C1.5 | 1.5 | 0.08 | 36 | 0.16 | 31 | 0.25 | 22 | 0.63 {6.4} | 460 | 27 | 87 | 332 | 148 | 340 | 70 | 200 | 230 | 260 | 42 |
| | | 6 | KR5-406-C2.2 | 2.2 | 0.08 | 54 | 0.16 | 47.5 | 0.25 | 35 | 0.45 {4.6} | 492 | 27 | 129 | 332 | 148 | 340 | 70 | 200 | 230 | 260 | 44 |
| | | 7 | KR5-406-C3.7 | 3.7 | 0.08 | 72 | 0.16 | 66.5 | 0.25 | 53 | 0.27 {2.8} | 532 | 27 | 129 | 332 | 148 | 340 | 70 | 200 | 230 | 260 | 50 |
| | | 8 | KR5-406-C5.5 | 5.5 | 0.08 | 93.5 | 0.16 | 87 | 0.25 | 72 | 0.059 {0.6} | 595 | 22 | 127 | 375 | 173 | 410 | 80 | 250 | 280 | 314 | 78 |
| 50 | 40 | 9 | KR5-506-C1.5 | 1.5 | 0.125 | 30.5 | 0.25 | 23.5 | 0.4 | 10 | 0.68 {6.9} | 460 | 27 | 87 | 332 | 148 | 340 | 70 | 200 | 230 | 260 | 43 |
| | | 10 | KR5-506-C2.2 | 2.2 | 0.125 | 37.5 | 0.25 | 32 | 0.4 | 19 | 0.61 {6.2} | 450 | 27 | 87 | 332 | 148 | 340 | 70 | 200 | 230 | 260 | 47 |
| | | 11 | KR5-506-C3.7 | 3.7 | 0.125 | 59.5 | 0.25 | 51.5 | 0.4 | 33 | 0.39 {4.0} | 532 | 27 | 129 | 332 | 148 | 340 | 70 | 200 | 230 | 260 | 52 |
| | | 12 | KR5-506-C5.5 | 5.5 | 0.125 | 80 | 0.25 | 72 | 0.4 | 54 | 0.20 {2.0} | 595 | 22 | 127 | 375 | 173 | 410 | 80 | 250 | 280 | 314 | 78 |
| | | 13 | KR5-506-C7.5 | 7.5 | 0.125 | 95 | 0.25 | 88 | 0.4 | 71 | 0.049 {0.5} | 616 | 22 | 127 | 375 | 173 | 410 | 80 | 250 | 280 | 314 | 100 |
| 65 | 50 | 14 | KR5-656-C3.7 | 3.7 | 0.25 | 39.5 | 0.5 | 29.5 | 0.71 | 15.5 | 0.59 {6.0} | 516 | 20 | 120 | 338 | 173 | 410 | 80 | 250 | 280 | 314 | 57 |
| | | 15 | KR5-656-C5.5 | 5.5 | 0.25 | 54.5 | 0.5 | 43 | 0.71 | 26.5 | 0.44 {4.5} | 575 | 20 | 120 | 383 | 193 | 410 | 80 | 250 | 280 | 314 | 78 |
| | | 16 | KR5-656-C7.5 | 7.5 | 0.25 | 67 | 0.5 | 58 | 0.8 | 33 | 0.32 {3.3} | 596 | 20 | 120 | 383 | 193 | 410 | 80 | 250 | 280 | 314 | 101 |

※ 1 : Single phase 100V ※ 2 : Single phase 200V