

# PC Series

## ISO2858 Compliant (Coupling-Type)

PC series is the largest series in stainless steel magnetic drive pumps and the maximum capacity can reach up to 3200LPM and power up to 110KW. The standard material of SUS316L is used for better corrosion resistance. This series is in the form of coupling type, which is convenient for disassembly and assembly during pump maintenance.

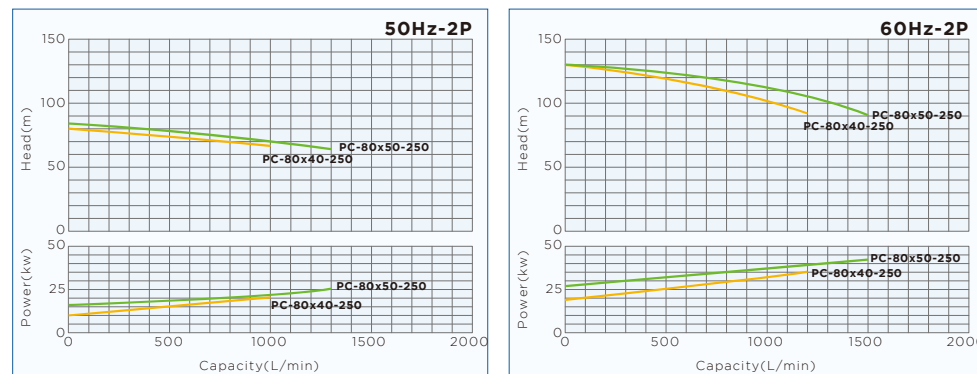


## Specification

|                     | PC                                                                 |              |              |              |
|---------------------|--------------------------------------------------------------------|--------------|--------------|--------------|
| Frequency           | 50Hz(2P)                                                           | 50Hz(4P)     | 60Hz (2P)    | 60Hz (4P)    |
| Max. capacity       | 2800L/m                                                            | 1400L/m      | 3200L/m      | 1600L/m      |
| Max. total head     | 87m                                                                | 23m          | 220m         | 34m          |
| Suction & discharge | 80x40 - 100x80                                                     |              |              |              |
| Temperature range   | -80°C - 280°C                                                      |              |              |              |
| Specific gravity    | <2                                                                 |              |              |              |
| Viscosity           | <300mPa.s(cp)                                                      |              |              |              |
| Design pressure     | 1.6MPaG                                                            |              |              |              |
| Flange standard     | ANSI Class 150 / JIS 10K / DIN PN16                                |              |              |              |
| Motor output        | 22KW - 75KW                                                        | 3.7KW - 11KW | 45KW - 110KW | 5.5KW - 15KW |
| Pump material       | SUS316L(Standard) / Alloy20(Optional) / Has-C equivalent(Optional) |              |              |              |

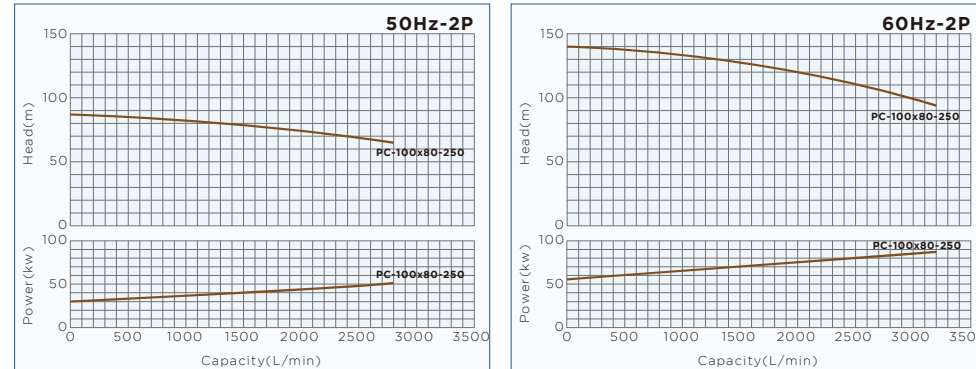
## Performance Curve

### PC-80x40-250 / 80x50-250

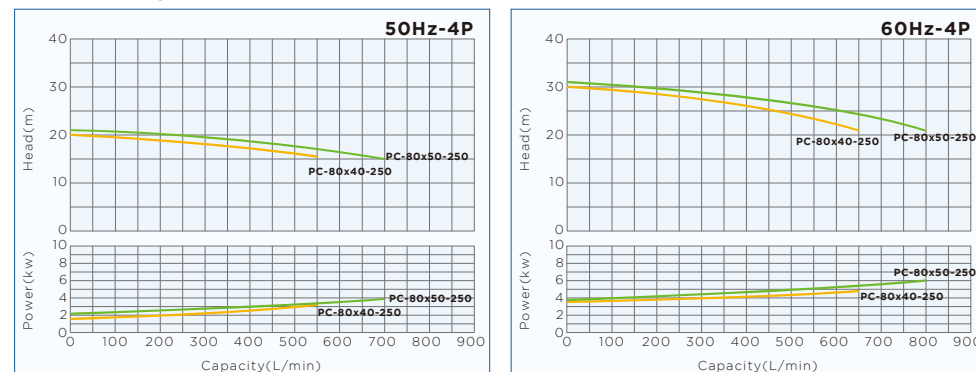


\*The performance curve is for reference and preliminary selection only

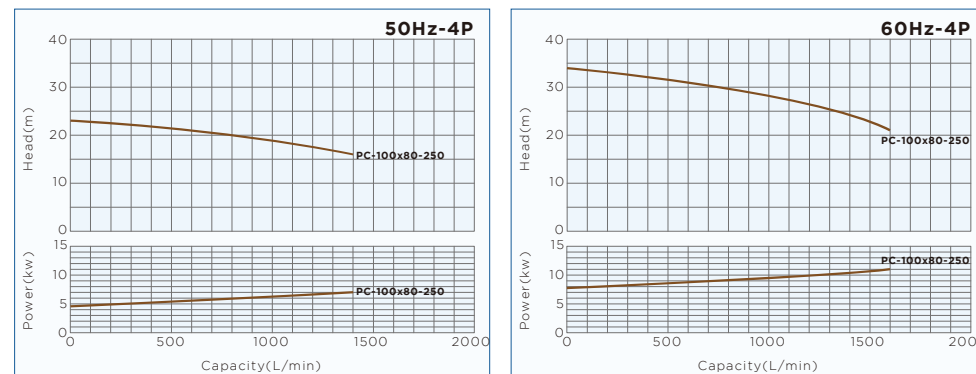
### PC-100x80-250



### PC-80x40-250 / 80x50-250



### PC-100x80-250



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PM

PS

PL

PW

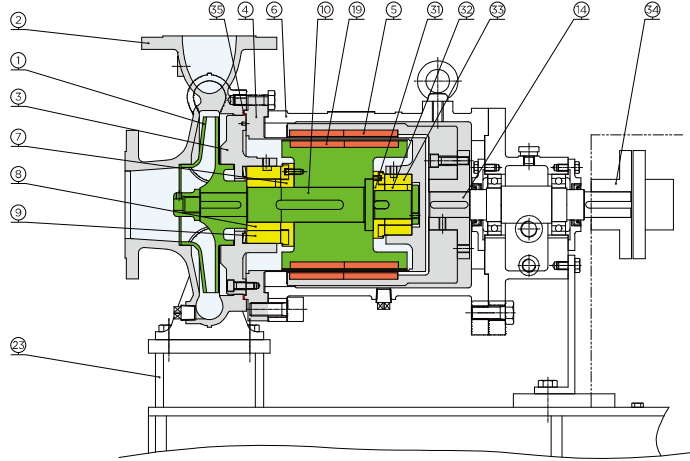
PSJ

PSO

PL2

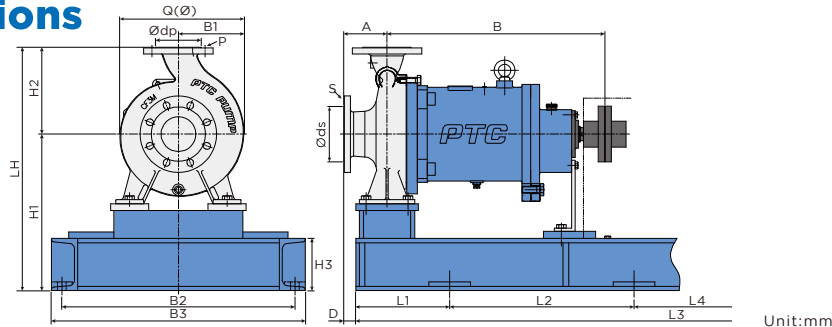
PC

## Construction and Material



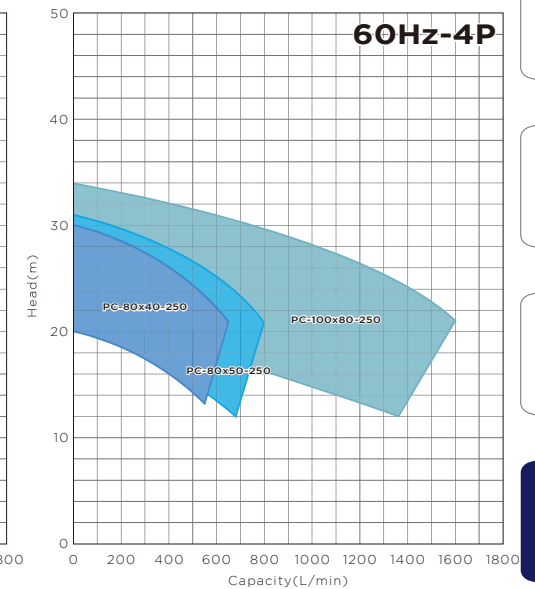
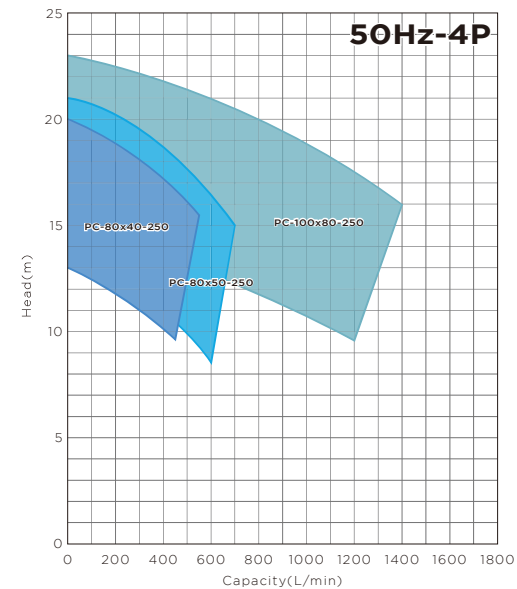
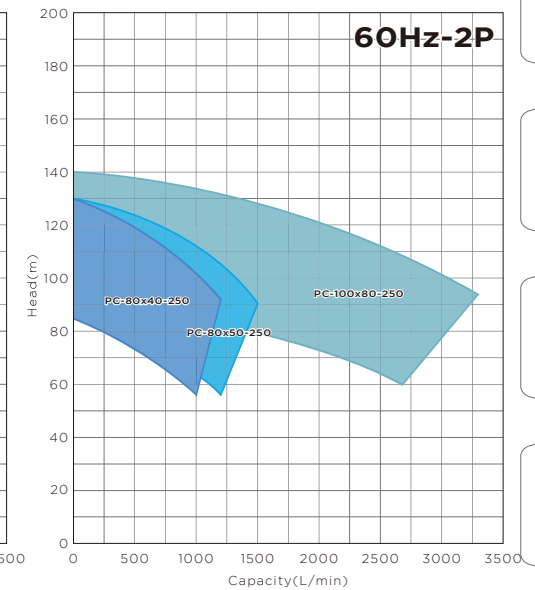
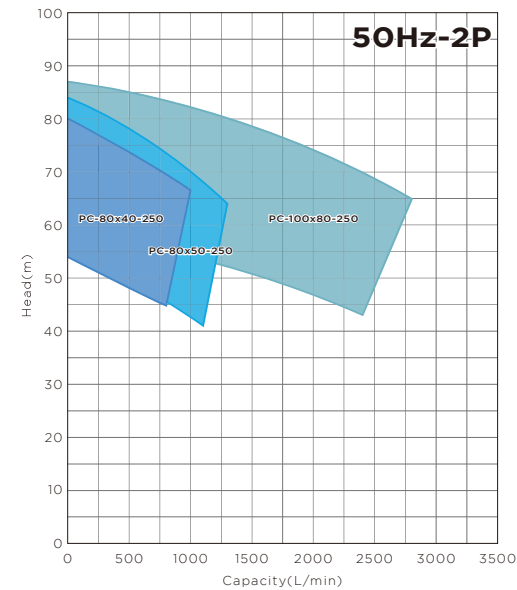
| No. | Parts Name     | Material         | No. | Parts Name         | Material           |
|-----|----------------|------------------|-----|--------------------|--------------------|
| ①   | Impeller       | SUS316L          | ⑩   | Shaft              | SUS316L            |
| ②   | Front casing   | SUS316L          | ⑫   | Outer magnet shaft | S45C               |
| ③   | Casing cover   | SUS316L          | ⑪   | Inner magnet       | SUS316L+Rare earth |
| ④   | Rear casing    | SUS316L          | ⑬   | Baseplate          | SS400              |
| ⑤   | Outer magnet   | SS400+Rare earth | ③   | Thrust ring(R)     | SiC                |
| ⑥   | Frame adapter  | FC25             | ⑭   | Sleeve(R)          | SiC                |
| ⑦   | Thrust ring(F) | SiC              | ⑮   | Bearing(R)         | SiC                |
| ⑧   | Sleeve(F)      | SiC              | ⑯   | Coupling           | S45C               |
| ⑨   | Bearing(F)     | SiC              | ⑰   | Gasket             | PTFE               |

## Dimensions



| Model         | Motor                  |                  | Bore  |                    |        |                    | Pump size |     |     |     |     |     |     |       |     |     |    |     |     |      |     |  |
|---------------|------------------------|------------------|-------|--------------------|--------|--------------------|-----------|-----|-----|-----|-----|-----|-----|-------|-----|-----|----|-----|-----|------|-----|--|
|               | Frame Size             | Output (KW)      | Suct. |                    | Disch. |                    | LH        | H1  | H2  | H3  | B1  | B2  | B3  | Q (Ø) | A   | B   | D  | L1  | L2  | L3   | L4  |  |
|               |                        |                  | ds    | S                  | dp     | P                  |           |     |     |     |     |     |     |       |     |     |    |     |     |      |     |  |
| PC-80x40-250  | 112M/132S<br>180M/200L | 3.7/5.5<br>22/45 | 80    | JIS 10K / DIN PN16 | 40     | JIS 10K / DIN PN16 | 565       | 340 | 225 | 125 | 172 | 600 | 660 | 333   | 125 | 625 | 40 | 240 | 940 | 1450 | -   |  |
| PC-80x50-250  | 132S/132M<br>180L/225S | 5.5/7.5<br>30/55 | 80    |                    | 50     |                    | 605       | 380 | 225 | 125 | 175 | 600 | 660 | 336.5 | 125 | 625 | 40 | 240 | 940 | 1450 | -   |  |
| PC-100x80-250 | 160M/160L<br>225S/280S | 11/15<br>75/110  | 100   | JIS 10K / DIN PN16 | 80     | JIS 10K / DIN PN16 | 700       | 450 | 250 | 150 | 188 | 670 | 730 | 356   | 125 | 625 | 35 | 270 | 530 | 1750 | 530 |  |

## PC Series Performance Family Curve



\*The performance family curve is for reference and preliminary selection only