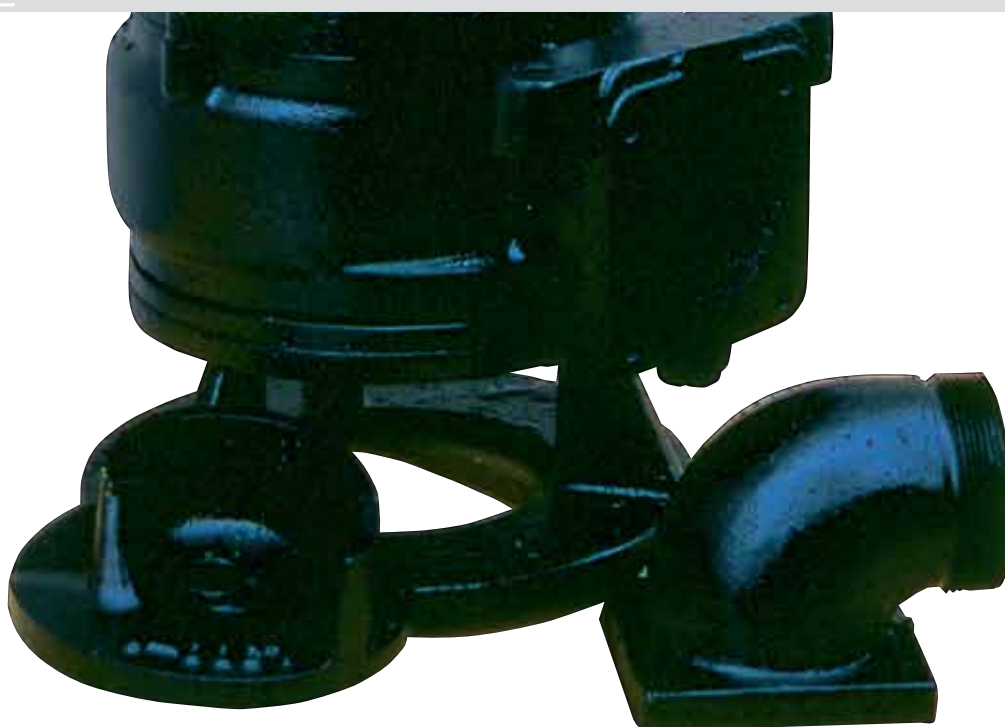




# CP SERIES Submersible Pump

General Data





CP, CPS Submersible Pump are designed for economical and reliable pumping of clear and waste water from commercial, communal and industrial sources.

Used in conjunction with the automatic coupling system the below ground level wet installation is a particularly economical solution which also does not damage the environment.

The pump are also suitable for quick portable applications.

- Maximum Temperature : +40°
- Materials
  - Casing : Cast Iron FC20
  - Shaft : Stainless Steel SUS316
  - Impeller : Cast Iron FC20
  - Fasteners : Stainless Steel SUS304
  - Special materials on request

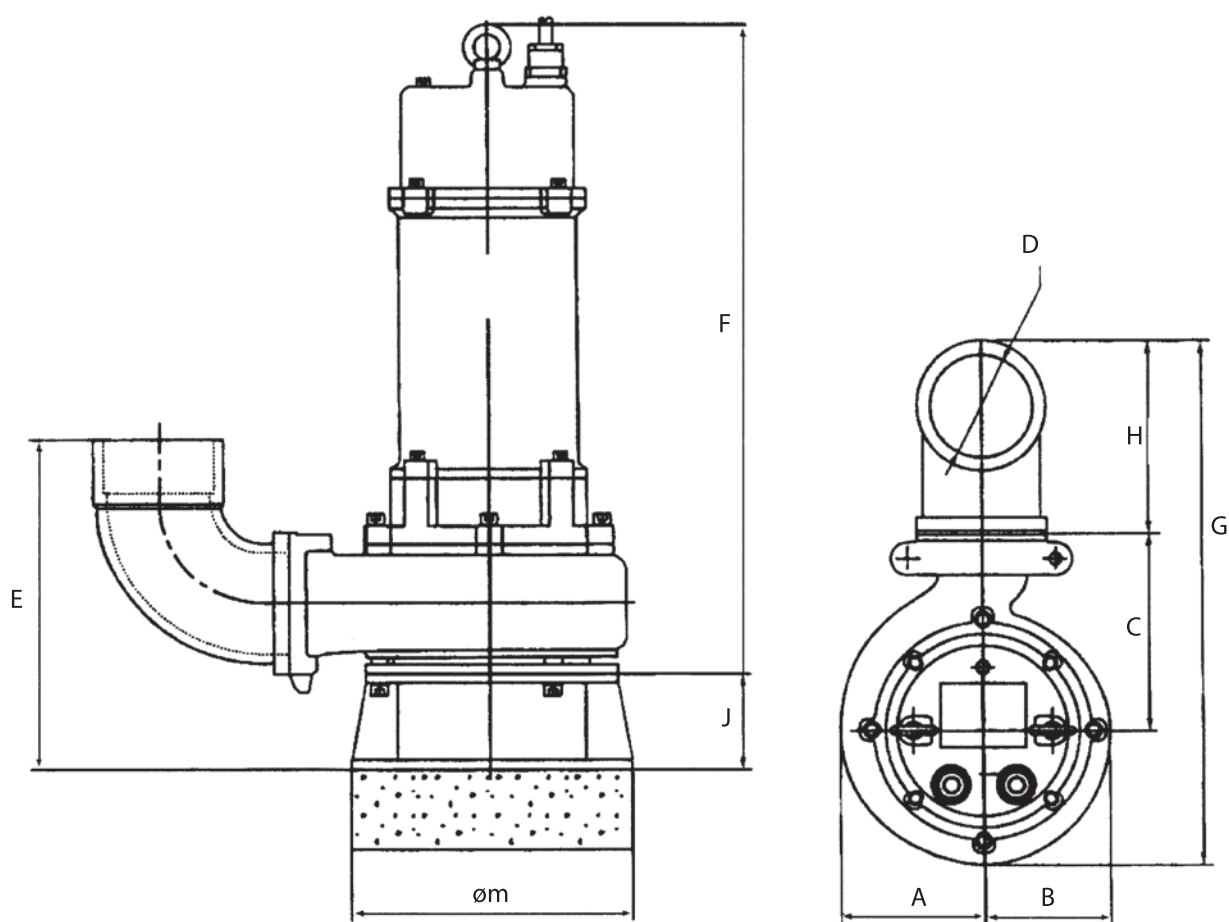
| PUMP MODE CODE |                                  |
|----------------|----------------------------------|
| CP             | Cutter Pump                      |
| (S)            | S - Single Phase                 |
| 150            | P2 / 100kw                       |
| - -            |                                  |
| 2              | 2 pole or 4 pole motor           |
| H              | Impeller size                    |
|                | S - Smaller Impeller             |
|                | M - Middle Impeller              |
|                | H - Large Impeller               |
| (A)            | With float switch automatic type |



CP SERIES

SPECIFICATIONS

| NO. | MODEL         | CAPACITY<br>(m3/h) | HEAD<br>(m) | POWER<br>(Kw) | PEDESTAL | PHASE | WEIGHT<br>(kg) | MAX SOLID<br>PASSED (mm) |        |     |  |        |     |  |  |  |
|-----|---------------|--------------------|-------------|---------------|----------|-------|----------------|--------------------------|--------|-----|--|--------|-----|--|--|--|
| 1   | CP75-2H (A)   | 10                 | 8           | 0.75          | 50GAK    | 3     | 33             | 45                       |        |     |  |        |     |  |  |  |
|     | CPS75-2H (A)  |                    |             |               |          | 1     |                |                          |        |     |  |        |     |  |  |  |
| 2   | CP100-2H (A)  | 10                 | 13          | 1             |          | 3     |                |                          | 35     |     |  |        |     |  |  |  |
|     | CPS100-2H (A) | 10                 | 9           |               |          | 1     |                |                          |        |     |  |        |     |  |  |  |
| 3   | CP150-2H (A)  | 10                 | 18          | 1.5           |          | 3     | 35             |                          |        |     |  |        |     |  |  |  |
|     | CPS150-2H (A) | 10                 | 15          |               |          | 1     |                |                          |        |     |  |        |     |  |  |  |
| 4   | CP100-2M (A)  | 17                 | 6           | 1             | 80GAK    | 3     | 33             | 65                       |        |     |  |        |     |  |  |  |
|     | CPS100-2M (A) |                    |             |               |          | 1     |                |                          |        |     |  |        |     |  |  |  |
| 5   | CP150-2M (A)  | 20                 | 9           | 1.5           |          | 3     | 35             |                          |        |     |  |        |     |  |  |  |
|     | CPS150-2M (A) |                    |             |               |          | 1     |                |                          |        |     |  |        |     |  |  |  |
| 6   | CP220-2H (A)  | 15                 | 20          | 2.2           |          | 3     | 45             | 75                       |        |     |  |        |     |  |  |  |
| 7   | CP220-2M (A)  | 30                 | 13          |               |          |       | 78             |                          |        |     |  |        |     |  |  |  |
| 8   | CP220-4M (A)  | 60                 | 5           | 2.2           | 100GAK   |       | 45             |                          |        |     |  |        |     |  |  |  |
| 9   | CP300-2H (A)  | 20                 | 22          | 3             | 80GAK    |       | 80             |                          |        |     |  |        |     |  |  |  |
| 10  | CP300-2M (A)  | 35                 | 14          |               | 100GAK   |       | 85             |                          |        |     |  |        |     |  |  |  |
| 11  | CP300-4M (A)  | 80                 | 5           |               |          |       | 120            |                          |        |     |  |        |     |  |  |  |
| 12  | CP400-2H (A)  | 20                 | 25          | 4             | 80GAK    |       | 130            |                          |        |     |  |        |     |  |  |  |
| 13  | CP400-2M (A)  | 40                 | 15          |               | 100GAK   |       | 130            | 100                      |        |     |  |        |     |  |  |  |
| 14  | CP400-4M (A)  | 100                | 6           |               |          |       | 140            |                          |        |     |  |        |     |  |  |  |
| 15  | CP400-6M      | 250                | 2.5         |               | 150GAK   |       | 200            | 75                       |        |     |  |        |     |  |  |  |
| 16  | CP550-2H      | 25                 | 28          | 5.5           | 100GAK   |       | 220            |                          |        |     |  |        |     |  |  |  |
| 17  | CP550-2M      | 30                 | 24          |               |          |       | 280            |                          |        |     |  |        |     |  |  |  |
| 18  | CP550-2S      | 60                 | 15          |               |          |       | 320            |                          |        |     |  |        |     |  |  |  |
| 19  | CP750-2H      | 45                 | 29          | 7.5           |          |       | 500            | 76                       |        |     |  |        |     |  |  |  |
| 20  | CP750-2M      | 70                 | 20          |               |          |       | 450            |                          |        |     |  |        |     |  |  |  |
| 21  | CP750-2S      | 80                 | 15          |               |          |       |                |                          | 150GAK |     |  |        |     |  |  |  |
| 22  | CP550-4S      | 100                | 8           | 5.5           | 200GAK   |       |                |                          |        |     |  |        |     |  |  |  |
| 23  | CP750-4S      | 10                 | 10          | 7.5           |          |       |                |                          | 300GAK |     |  |        |     |  |  |  |
| 24  | CP1100-2H     | 33                 | 33          | 11            | 80GAK    |       | 100            |                          |        |     |  |        |     |  |  |  |
| 25  | CP1500-2H     | 32                 | 32          | 15            | 100GAK   |       |                |                          |        |     |  |        |     |  |  |  |
| 26  | CP1100-2M     | 90                 | 20          | 11            |          |       |                |                          | 150GAK |     |  |        |     |  |  |  |
| 27  | CP1500-2M     | 150                | 17          | 15            | 200GAK   |       |                |                          |        |     |  |        |     |  |  |  |
| 28  | CP1100-4M     | 150                | 12          | 11            |          |       |                |                          | 300GAK |     |  |        |     |  |  |  |
| 29  | CP1500-4M     | 250                | 13          | 15            | 450      |       |                |                          |        |     |  |        |     |  |  |  |
| 30  | CP1100-4S     | 500                | 5           | 11            |          |       |                |                          | 500    |     |  |        |     |  |  |  |
| 31  | CP1500-4S     | 550                | 6           | 15            | 500      |       |                |                          |        |     |  |        |     |  |  |  |
| 32  | CP1500-8M     | 900                | 3.5         | 15            |          |       |                |                          | 300GAK | 450 |  |        |     |  |  |  |
| 33  | CP1850-4H-100 | 80                 | 34          | 18.5          | 100GAK   |       | 50             |                          |        |     |  |        |     |  |  |  |
| 34  | CP1850-4M-100 | 100                | 30          |               | 150GAK   |       |                |                          | 70     |     |  |        |     |  |  |  |
| 35  | CP1850-4H-150 | 150                | 18          |               |          |       |                |                          |        |     |  | 200GAK | 100 |  |  |  |
| 36  | CP1850-4M-150 | 300                | 11          |               |          |       |                |                          |        |     |  |        |     |  |  |  |
| 37  | CP1850-4M-200 | 400                | 10          |               |          |       | 22             |                          | 100GAK | 76  |  |        |     |  |  |  |
| 38  | CP2200-4H-100 | 80                 | 38          | 150GAK        | 100      |       |                |                          |        |     |  |        |     |  |  |  |
| 39  | CP2200-4M-100 | 100                | 35          |               |          |       |                |                          |        |     |  |        |     |  |  |  |
| 40  | CP2200-4H-150 | 150                | 22          |               |          |       |                |                          |        |     |  |        |     |  |  |  |
| 41  | CP2200-4M-150 | 250                | 17          |               |          |       |                |                          |        |     |  |        |     |  |  |  |
| 42  | CP2200-4M-200 | 400                | 13          | 200GAK        | 100      |       |                |                          |        |     |  |        |     |  |  |  |



PUMP DIMENSION

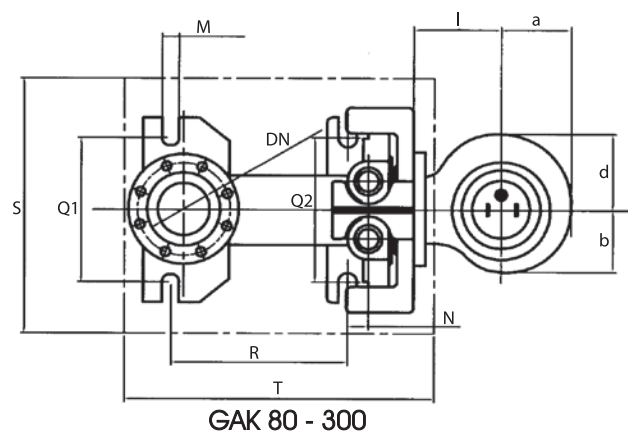
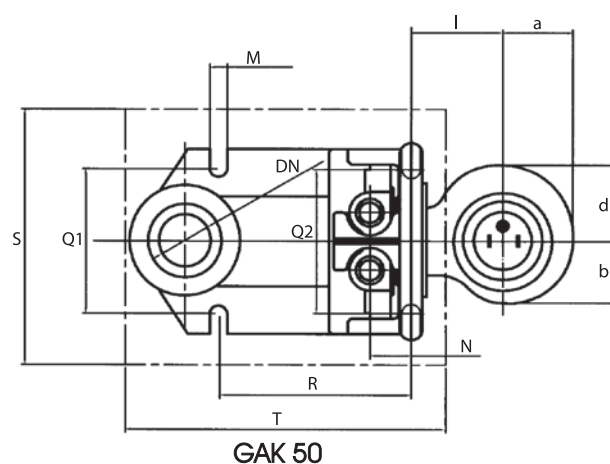
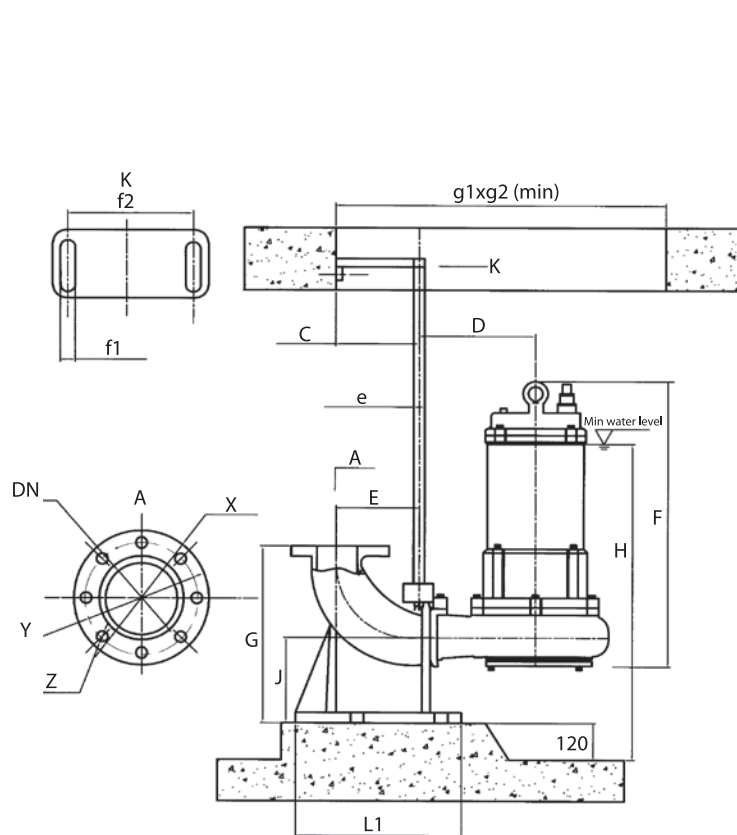
## Portable

| No. | MODEL        | A   | B  | C   | D    | E   | F   | G   | H   | J  | øm  |
|-----|--------------|-----|----|-----|------|-----|-----|-----|-----|----|-----|
| 1   | CP75-2H      | 110 | 97 | 135 | Rc2" | 197 | 427 | 355 | 110 | 50 | 195 |
| 2   | CP75-2H(A)   | 110 | 97 | 135 | Rc2" | 197 | 469 | 355 | 110 | 50 | 195 |
|     | CPS75-2H     |     |    |     |      |     |     |     |     |    |     |
| 3   | CP100-2H     | 116 | 96 | 145 | Rc2" | 219 | 516 | 365 | 110 | 75 | 220 |
|     | CP150-2H     |     |    |     |      |     |     |     |     |    |     |
| 4   | CP100-2H(A)  | 116 | 96 | 145 | Rc2" | 219 | 576 | 365 | 110 | 75 | 220 |
|     | CPS100-2H    |     |    |     |      |     |     |     |     |    |     |
|     | CPS100-2H(A) |     |    |     |      |     |     |     |     |    |     |
|     | CP150-2H(A)  |     |    |     |      |     |     |     |     |    |     |
|     | CPS150-2H    |     |    |     |      |     |     |     |     |    |     |
| 5   | CP100-2M     | 116 | 96 | 145 | Rc3" | 245 | 528 | 390 | 135 | 75 | 220 |
|     | CP150-2M     |     |    |     |      |     |     |     |     |    |     |
| 6   | CP100-2M(A)  | 116 | 96 | 145 | Rc3" | 245 | 588 | 390 | 135 | 75 | 220 |
|     | CPS100-2M    |     |    |     |      |     |     |     |     |    |     |
|     | CPS100-2M(A) |     |    |     |      |     |     |     |     |    |     |
|     | CP150-2M(A)  |     |    |     |      |     |     |     |     |    |     |
|     | CPS150-2M    |     |    |     |      |     |     |     |     |    |     |
|     | CPS150-2M(A) |     |    |     |      |     |     |     |     |    |     |

PUMP DIMENSION

| No. | MODEL         | A   | B   | C   | D     | E   | F    | G   | H   | J   | øm  |
|-----|---------------|-----|-----|-----|-------|-----|------|-----|-----|-----|-----|
| 7   | CP220-2H      | 125 | 106 | 165 | Rc3"  | 270 | 595  | 413 | 135 | 90  | 240 |
|     | CP220-2M      |     |     |     |       |     |      |     |     |     |     |
|     | CP300-2H      |     |     |     |       |     |      |     |     |     |     |
|     | CP300-2M      |     |     |     |       |     |      |     |     |     |     |
| 8   | CP220-2H(A)   | 125 | 106 | 165 | Rc3"  | 270 | 640  | 413 | 135 | 90  | 240 |
|     | CP220-2M(A)   |     |     |     |       |     |      |     |     |     |     |
|     | CP300-2H(A)   |     |     |     |       |     |      |     |     |     |     |
|     | CP300-2M(A)   |     |     |     |       |     |      |     |     |     |     |
| 9   | CP220-4M      | 161 | 147 | 210 | Rc4"  | 396 | 675  | 590 | 225 | 110 | -   |
|     | CP300-4M      |     |     |     |       |     |      |     |     |     |     |
| 10  | CP220-4M(A)   | 161 | 147 | 210 | Rc4"  | 396 | 720  | 590 | 225 | 110 | -   |
|     | CP300-4M(A)   |     |     |     |       |     |      |     |     |     |     |
| 11  | CP400-2H      | 135 | 115 | 200 | Rc2½" | 294 | 697  | 460 | 135 | 105 | 260 |
| 12  | CP400-2H(A)   | 135 | 115 | 200 | Rc2½" | 294 | 742  | 460 | 135 | 105 | 260 |
| 13  | CP400-2M      | 167 | 137 | 210 | Rc3"  | 298 | 706  | 501 | 135 | 105 | 260 |
| 14  | CP400-2M(A)   | 167 | 137 | 210 | Rc3"  | 298 | 751  | 501 | 135 | 105 | 260 |
| 15  | CP400-4M      | 179 | 161 | 243 | Rc4"  | 410 | 762  | 643 | 225 | 115 | -   |
| 16  | CP400-4M(A)   | 179 | 161 | 243 | Rc4"  | 410 | 807  | 643 | 225 | 115 | -   |
| 17  | CP400-6M      | 234 | 179 | 248 | Rc6"  | 470 | 894  | 717 | 275 | 110 | -   |
| 18  | CP550-2H      | 193 | 155 | 240 | Rc4"  | 535 | 967  | 682 | 225 | 215 | 450 |
|     | CP550-2M      |     |     |     |       |     |      |     |     |     |     |
|     | CP550-2S      |     |     |     |       |     |      |     |     |     |     |
|     | CP750-2H      |     |     |     |       |     |      |     |     |     |     |
|     | CP750-2M      |     |     |     |       |     |      |     |     |     |     |
|     | CP750-2S      |     |     |     |       |     |      |     |     |     |     |
| 19  | CP550-4S      | 234 | 179 | 248 | Rc6"  | 601 | 1019 | 717 | 275 | 215 | 450 |
|     | CP750-4S      |     |     |     |       |     |      |     |     |     |     |
| 20  | CP1100-2H     | 160 | 155 | 245 | Rc3"  | 235 | 868  | 560 | 135 | 110 | -   |
|     | CP1500-2H     |     |     |     |       |     |      |     |     |     |     |
| 21  | CP1100-2M     | 193 | 162 | 240 | Rc4"  | 406 | 930  | 638 | 225 | 110 | -   |
|     | CP1500-2M     |     |     |     |       |     |      |     |     |     |     |
| 22  | CP1100-4M     | 236 | 179 | 248 | Rc6"  | 472 | 980  | 717 | 275 | 110 | -   |
|     | CP1500-4M     |     |     |     |       |     |      |     |     |     |     |
| 23  | CP1100-4S     | 236 | 179 | 320 | -     | -   | 990  | -   | -   | 110 | -   |
|     | CP1500-4S     |     |     |     |       |     |      |     |     |     |     |
| 24  | CP1500-8M     | 240 | 180 | 330 | -     | -   | 1000 | -   | -   | 110 | -   |
| 25  | CP1850-4H-100 | 240 | 220 | 265 | Rc4"  | 406 | 1235 | 720 | 225 | 110 | -   |
|     | CP2200-4H-100 |     |     |     |       |     |      |     |     |     |     |
|     | CP1850-4M-100 |     |     |     |       |     |      |     |     |     |     |
|     | CP2200-4M-100 |     |     |     |       |     |      |     |     |     |     |
| 26  | CP1850-4H-150 | 270 | 230 | 300 | Rc6"  | 472 | 1235 | 825 | 275 | 110 | -   |
|     | CP2200-4H-150 |     |     |     |       |     |      |     |     |     |     |
|     | CP1850-4M-150 |     |     |     |       |     |      |     |     |     |     |
|     | CP2200-4M-150 |     |     |     |       |     |      |     |     |     |     |
| 27  | CP1850-4M-200 | 330 | 300 | 400 | -     | -   | 1235 | -   | -   | 110 | -   |
|     | CP2200-4M-200 |     |     |     |       |     |      |     |     |     |     |

## Automatic-Coupling System Installation (wet installation, stationary)



Standard Supply:

- (1) Pedestal
- (2) Bracket
- (3) Retiner

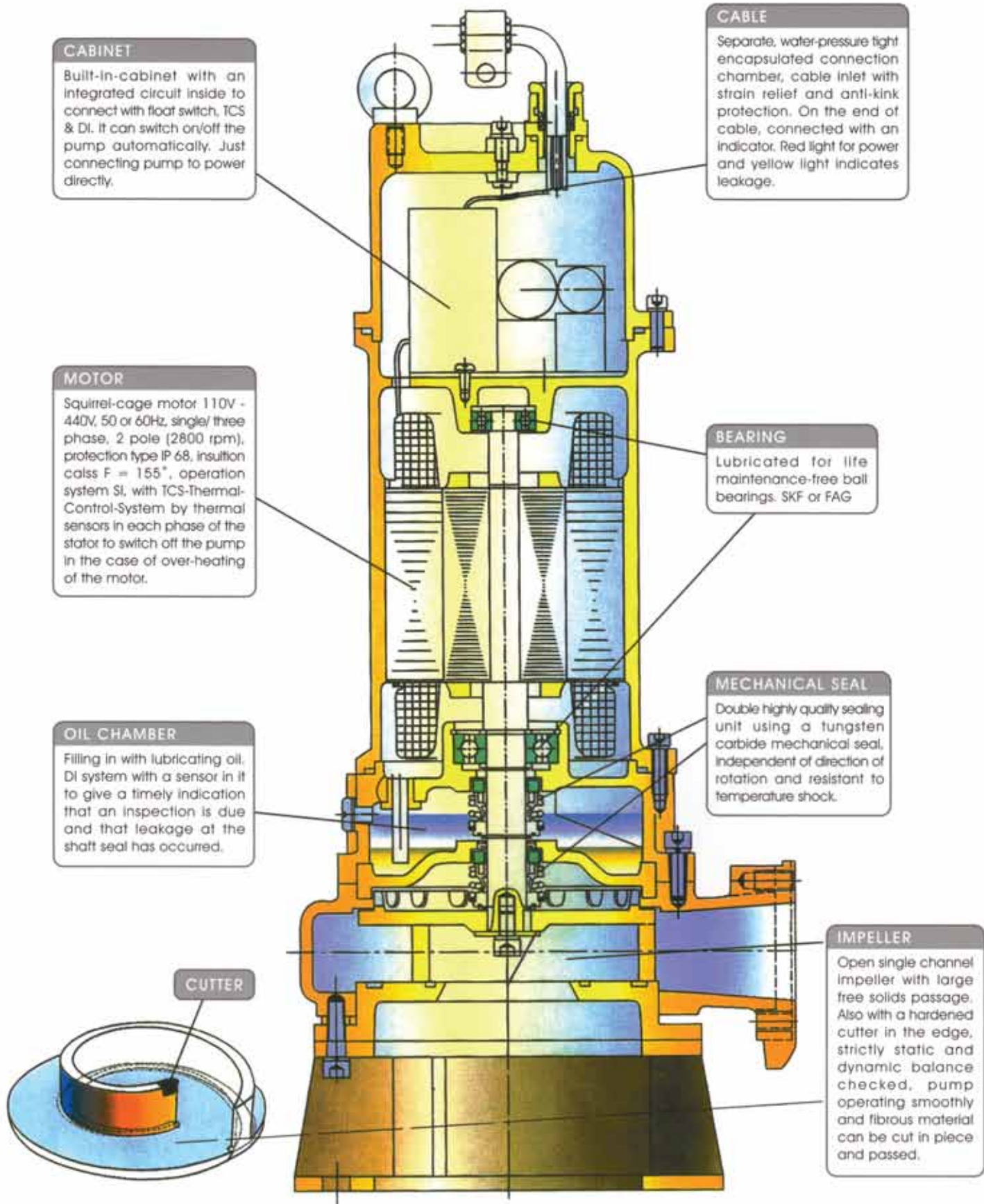
| TYPE        | X    | Y    | Z        |
|-------------|------|------|----------|
| 80 - II GAK | ø200 | ø160 | 8 - ø18  |
| 100GAK      | ø220 | ø180 | 8 - ø18  |
| 150GAK      | ø285 | ø240 | 8 - ø22  |
| 200GAK      | ø340 | ø295 | 8 - ø22  |
| 250GAK      | ø395 | ø350 | 12 - ø22 |
| 300GAK      | ø445 | ø400 | 12 - ø22 |

# PUMP DIMENSION

## Paragon 6

| MODEL         | TYPE   | b   | d   | l   | a   | N  | R   | Q1  | Q2  | S   | T    | M  | C   | D   | E    | F    | G   | J        | H     | e   | g1 x g2<br>(mm) | f1    | f2  | L1  |     |     |  |  |  |  |  |
|---------------|--------|-----|-----|-----|-----|----|-----|-----|-----|-----|------|----|-----|-----|------|------|-----|----------|-------|-----|-----------------|-------|-----|-----|-----|-----|--|--|--|--|--|
| CP220-4M      | 100GAK | 161 | 147 | 210 | 155 | 25 | 250 | 285 | 225 | 450 | 550  | 18 | 105 | 290 | 230  | 675  | 385 | 200      | 735   | Ø57 | 1150X900        | 2-Ø16 | 100 | 330 |     |     |  |  |  |  |  |
| CP300-4M      |        |     |     |     |     |    |     |     |     |     |      |    |     |     |      | 762  |     |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP220-4M(A)   |        |     |     |     |     |    |     |     |     |     |      |    |     |     |      |      |     |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP300-4M(A)   |        |     |     |     |     |    |     |     |     |     |      |    |     |     |      |      |     |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP400-4M      |        | 179 | 161 | 243 | 175 |    |     |     |     |     |      |    |     | 323 | 762  | 767  |     |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP400-4M(A)   |        |     |     |     |     |    |     |     |     |     |      |    |     |     | 807  |      |     |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP550-2H      |        | 193 | 155 | 240 | 217 |    |     |     |     |     |      |    |     | 320 | 967  | 838  | Ø57 | 1150X900 | 2-Ø16 |     |                 |       |     |     | 100 | 330 |  |  |  |  |  |
| CP550-2M      |        |     |     |     |     |    |     |     |     |     |      |    |     |     |      |      |     |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP550-2S      |        |     |     |     |     |    |     |     |     |     |      |    |     |     |      |      |     |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP750-2H      |        |     |     |     |     |    |     |     |     |     |      |    |     |     |      |      |     |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP750-2M      |        |     |     |     |     |    |     |     |     |     |      |    |     |     |      |      |     |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP750-2S      |        |     |     |     |     |    |     |     |     |     |      |    |     |     |      |      |     |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP1100-2M     |        | 193 | 162 | 240 | 183 | 25 | 325 | 230 | 930 | 285 | 940  |    |     |     |      |      |     |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP1500-2M     |        |     |     |     |     |    |     |     |     |     |      |    |     |     |      |      |     |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP1850-4H-100 |        | 240 | 220 | 265 | 230 | 25 | 250 | 285 | 225 | 450 | 550  | 18 | 105 | 380 | 230  | 1235 | 385 | 200      | 1080  |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP2200-4H-100 |        |     |     |     |     |    |     |     |     |     |      |    |     |     |      |      |     |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP1850-4M-100 |        |     |     |     |     |    |     |     |     |     |      |    |     |     |      |      |     |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP2200-4M-100 |        |     |     |     |     |    |     |     |     |     |      |    |     |     |      |      |     |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP400-6M      | 150GAK | 234 | 179 | 248 | 194 | 35 | 315 | 340 | 240 | 650 | 850  | 18 | 105 | 333 | 360  | 894  |     |          | 904   | Ø57 | 1200X900        | 2-Ø16 | 100 | 395 |     |     |  |  |  |  |  |
| CP550-4S      |        |     |     |     |     |    |     |     |     |     |      |    |     |     |      | 1019 |     |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP750-4S      |        |     |     |     |     |    |     |     |     |     |      |    |     |     |      | 980  |     |          | 1000  |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP1100-4M     |        |     |     |     |     |    |     |     |     |     |      |    |     |     |      |      |     |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP1500-4M     |        | 270 | 230 | 300 | 250 |    |     |     |     |     |      |    |     | 415 | 1235 | 1130 |     |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP1850-4H-150 |        |     |     |     |     |    |     |     |     |     |      |    |     |     |      |      |     |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP2200-4H-150 |        |     |     |     |     |    |     |     |     |     |      |    |     |     |      |      |     |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP1850-4M-150 |        |     |     |     |     |    |     |     |     |     |      |    |     |     |      |      |     |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP2200-4M-150 |        |     |     |     |     |    |     |     |     |     |      |    |     |     |      |      |     |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP1100-4S     | 200GAK | 236 | 179 | 320 | 194 | 25 | 420 | 420 | 420 | 680 | 900  | 22 | 105 | 440 |      | 900  |     | 565      | 285   | Ø57 | 1200X900        | 2-Ø16 | 100 | 540 |     |     |  |  |  |  |  |
| CP1500-4S     |        |     |     |     |     |    |     |     |     |     |      |    |     |     | 335  |      |     |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP1850-4M-200 |        | 330 | 300 | 400 | 315 |    |     |     |     |     |      |    |     | 515 | 1235 | 1190 | 395 |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP2200-4M-200 |        |     |     |     |     |    |     |     |     |     |      |    |     |     |      |      |     |          |       |     |                 |       |     |     |     |     |  |  |  |  |  |
| CP1500-8M     | 300GAK | 240 | 180 | 330 | 200 | 58 | 600 | 510 | 510 | 880 | 1300 | 26 | 150 | 470 | 470  | 1000 | 700 | 345      | 1100  | Ø78 | 1600X1200       | 2-Ø16 | 120 | 720 |     |     |  |  |  |  |  |

PUMP DIMENSION







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