

# CJU

## HORIZONTAL, CENTRIFUGAL, MULTI-STAGE PUMPS



### APPLICATION

- auxiliary pumping stations in the heat plants
- for pumping in the heating plants
- industrial operations
- power plants for pumping condensate from the steam turbine to the feed tank

### WORKING CONDITIONS

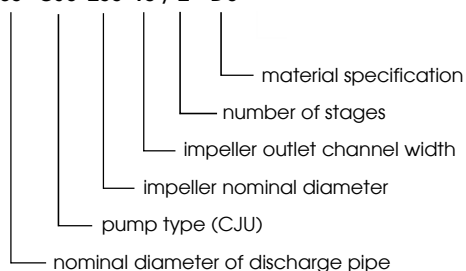
- for pumping hot water and condensate
- medium temperature up to +180°C
- pH > 6



CJU

### TYPE IDENTIFICATION

65- CJU-255-13 / 2 - DU

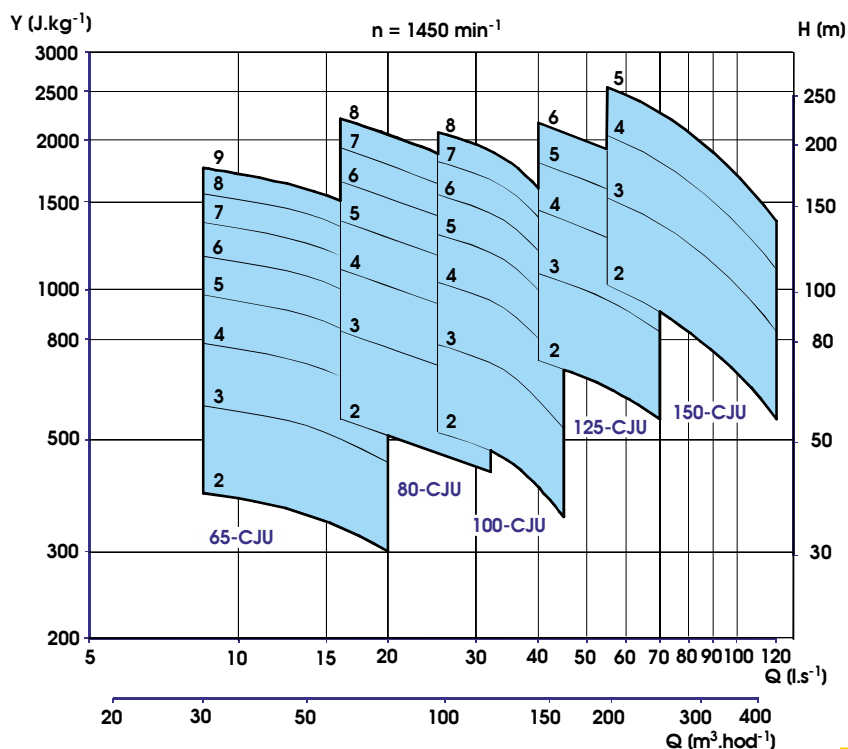


### WORKING AREA

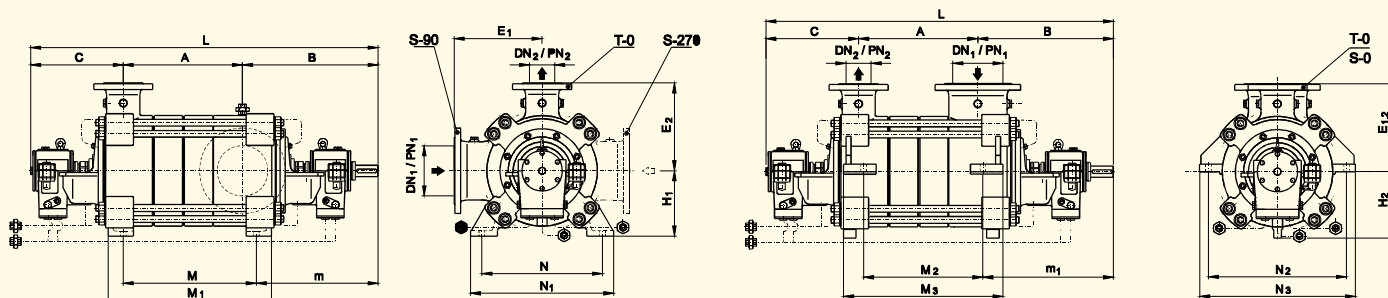
| PUMP SIZE            | SHAFT SPEED<br>(r.p.m.) | FLOW<br>$Q$ (l/s) | DELIVERY HEAD<br>$H$ (m) | TEMPERATURE<br>MAX.<br>(°C) |
|----------------------|-------------------------|-------------------|--------------------------|-----------------------------|
| 65-CJU-255-13/2 ÷ 9  | 1450                    | 13,9              | 180                      | 180                         |
| 80-CJU-300-14/2 ÷ 8  | 1450                    | 22,2              | 220                      | 180                         |
| 100-CJU-300-19/2 ÷ 8 | 1450                    | 34,7              | 210                      | 180                         |
| 125-CJU-350-22/2 ÷ 6 | 1450                    | 55,6              | 210                      | 180                         |
| 150-CJU-400-25/2 ÷ 5 | 1450                    | 87,5              | 220                      | 180                         |

### MATERIAL SPECIFICATION

| Part name       | DU            |
|-----------------|---------------|
| suction body    | 1.0625        |
| impeller body   | 1.0625        |
| discharge body  | 1.0625        |
| transducer      | X20Cr14 (DIN) |
| diffuser        | X20Cr14 (DIN) |
| impeller        | X20Cr14 (DIN) |
| seal ring       | 3346-HM       |
| shaft           | 1.0503        |
| tightening bolt | 1.5122        |
| bearing body    | EN-GJL-250    |



### BASIC DIMENSIONS



| Size           | Number<br>of stages | Discharge Pipe |         | Pump Dimensions |     |     |      |     |     |      | Feet (up to 120°C) |      |     |     |     | Feet in axis (over 120°C) |      |     |     |     |
|----------------|---------------------|----------------|---------|-----------------|-----|-----|------|-----|-----|------|--------------------|------|-----|-----|-----|---------------------------|------|-----|-----|-----|
|                |                     | DN1/PN1        | DN2/PN2 | A               | B   | C   | E1,2 | H1  | H2  | L    | M                  | M1   | N   | N1  | m   | M2                        | M3   | N2  | N3  | m1  |
| 65-CJU-255-13  | 2                   | 125/16         | 65/40   | 280             | 520 | 380 | 300  | 220 | 225 | 1180 | 300                | 420  | 400 | 480 | 495 | 235                       | 395  | 460 | 535 | 530 |
|                | 3                   | 125/16         | 65/40   | 380             | 520 | 380 | 300  | 220 | 225 | 1280 | 400                | 520  | 400 | 480 | 495 | 335                       | 495  | 460 | 535 | 530 |
|                | 4                   | 125/16         | 65/40   | 480             | 520 | 380 | 300  | 220 | 225 | 1380 | 500                | 620  | 400 | 480 | 495 | 435                       | 595  | 460 | 535 | 530 |
|                | 5                   | 125/16         | 65/40   | 580             | 520 | 380 | 300  | 220 | 225 | 1480 | 600                | 720  | 400 | 480 | 495 | 535                       | 695  | 460 | 535 | 530 |
|                | 6                   | 125/16         | 65/40   | 680             | 520 | 380 | 300  | 220 | 225 | 1580 | 700                | 820  | 400 | 480 | 495 | 635                       | 795  | 460 | 535 | 530 |
|                | 7                   | 125/16         | 65/40   | 780             | 520 | 380 | 300  | 220 | 225 | 1680 | 800                | 920  | 400 | 480 | 495 | 735                       | 895  | 460 | 535 | 530 |
|                | 8                   | 125/16         | 65/40   | 880             | 520 | 380 | 300  | 220 | 225 | 1780 | 900                | 1020 | 400 | 480 | 495 | 835                       | 995  | 460 | 535 | 530 |
|                | 9                   | 125/16         | 65/40   | 980             | 520 | 380 | 300  | 220 | 225 | 1880 | 1000               | 1120 | 400 | 480 | 495 | 935                       | 1095 | 460 | 535 | 530 |
| 80-CJU-300-14  | 2                   | 150/16         | 80/40   | 310             | 525 | 390 | 350  | 240 | 255 | 1225 | 340                | 460  | 480 | 560 | 495 | 285                       | 445  | 520 | 595 | 530 |
|                | 3                   | 150/16         | 80/40   | 420             | 525 | 390 | 350  | 240 | 255 | 1335 | 450                | 570  | 480 | 560 | 495 | 395                       | 555  | 520 | 595 | 530 |
|                | 4                   | 150/16         | 80/40   | 530             | 525 | 390 | 350  | 240 | 255 | 1445 | 560                | 680  | 480 | 560 | 495 | 505                       | 665  | 520 | 595 | 530 |
|                | 5                   | 150/16         | 80/40   | 640             | 525 | 390 | 350  | 240 | 255 | 1555 | 670                | 790  | 480 | 560 | 495 | 615                       | 775  | 520 | 595 | 530 |
|                | 6                   | 150/16         | 80/40   | 750             | 525 | 390 | 350  | 240 | 255 | 1665 | 780                | 900  | 480 | 560 | 495 | 725                       | 885  | 520 | 595 | 530 |
|                | 7                   | 150/16         | 80/40   | 860             | 525 | 390 | 350  | 240 | 255 | 1775 | 890                | 1010 | 480 | 560 | 495 | 835                       | 995  | 520 | 595 | 530 |
|                | 8                   | 150/16         | 80/40   | 970             | 525 | 390 | 350  | 240 | 255 | 1885 | 1000               | 1120 | 480 | 560 | 495 | 945                       | 1105 | 520 | 595 | 530 |
|                | 9                   | 150/16         | 80/40   | 1080            | 525 | 390 | 350  | 240 | 255 | 1995 | 1110               | 1230 | 480 | 560 | 495 | 1055                      | 1215 | 520 | 595 | 530 |
| 100-CJU-300-19 | 2                   | 200/10(16)     | 100/40  | 355             | 540 | 370 | 350  | 260 | 265 | 1265 | 410                | 530  | 480 | 570 | 485 | 355                       | 515  | 550 | 620 | 520 |
|                | 3                   | 200/10(16)     | 100/40  | 475             | 540 | 370 | 350  | 260 | 265 | 1385 | 530                | 650  | 480 | 570 | 485 | 475                       | 635  | 550 | 620 | 520 |
|                | 4                   | 200/10(16)     | 100/40  | 595             | 540 | 370 | 350  | 260 | 265 | 1505 | 650                | 770  | 480 | 570 | 485 | 595                       | 755  | 550 | 620 | 520 |
|                | 5                   | 200/10(16)     | 100/40  | 715             | 540 | 370 | 350  | 260 | 265 | 1625 | 770                | 890  | 480 | 570 | 485 | 715                       | 875  | 550 | 620 | 520 |
|                | 6                   | 200/10(16)     | 100/40  | 835             | 540 | 370 | 350  | 260 | 265 | 1745 | 890                | 1010 | 480 | 570 | 485 | 835                       | 995  | 550 | 620 | 520 |
|                | 7                   | 200/10(16)     | 100/40  | 955             | 540 | 370 | 350  | 260 | 265 | 1865 | 1010               | 1130 | 480 | 570 | 485 | 955                       | 1115 | 550 | 620 | 520 |
|                | 8                   | 200/10(16)     | 100/40  | 1075            | 540 | 370 | 350  | 260 | 265 | 1985 | 1130               | 1250 | 480 | 570 | 485 | 1075                      | 1235 | 550 | 620 | 520 |
|                | 9                   | 200/10(16)     | 100/40  | 1195            | 540 | 370 | 350  | 260 | 265 | 2105 | 1250               | 1370 | 480 | 570 | 485 | 1195                      | 1355 | 550 | 620 | 520 |
| 125-CJU-350-22 | 2                   | 200/10(16)     | 125/40  | 415             | 630 | 480 | 400  | 315 | 320 | 1525 | 465                | 615  | 580 | 680 | 585 | 375                       | 555  | 660 | 740 | 630 |
|                | 3                   | 200/10(16)     | 125/40  | 560             | 630 | 480 | 400  | 315 | 320 | 1670 | 610                | 760  | 580 | 680 | 585 | 520                       | 700  | 660 | 740 | 630 |
|                | 4                   | 200/10(16)     | 125/40  | 705             | 630 | 480 | 400  | 315 | 320 | 1815 | 755                | 905  | 580 | 680 | 585 | 665                       | 845  | 660 | 740 | 630 |
|                | 5                   | 200/10(16)     | 125/40  | 850             | 630 | 480 | 400  | 315 | 320 | 1960 | 900                | 1050 | 580 | 680 | 585 | 810                       | 990  | 660 | 740 | 630 |
|                | 6                   | 200/10(16)     | 125/40  | 995             | 630 | 480 | 400  | 315 | 320 | 2105 | 1045               | 1195 | 580 | 680 | 585 | 955                       | 1135 | 660 | 740 | 630 |
|                | 7                   | 200/10(16)     | 125/40  | 1140            | 630 | 480 | 400  | 315 | 320 | 2250 | 1190               | 1340 | 580 | 680 | 585 | 1100                      | 1280 | 660 | 740 | 630 |
| 150-CJU-400-25 | 2                   | 250/10(16)     | 150/40  | 460             | 730 | 510 | 450  | 355 | 350 | 1700 | 555                | 695  | 680 | 800 | 630 | 455                       | 635  | 720 | 800 | 680 |
|                | 3                   | 250/10(16)     | 150/40  | 620             | 730 | 510 | 450  | 355 | 350 | 1860 | 715                | 855  | 680 | 800 | 630 | 615                       | 795  | 720 | 800 | 680 |
|                | 4                   | 250/10(16)     | 150/40  | 780             | 730 | 510 | 450  | 355 | 350 | 2020 | 875                | 1015 | 680 | 800 | 630 | 775                       | 955  | 720 | 800 | 680 |
|                | 5                   | 250/10(16)     | 150/40  | 940             | 730 | 510 | 450  | 355 | 350 | 2180 | 1035               | 1175 | 680 | 800 | 630 | 935                       | 1115 | 720 | 800 | 680 |
|                | 6                   | 250/10(16)     | 150/40  | 1100            | 730 | 510 | 450  | 355 | 350 | 2340 | 1195               | 1335 | 680 | 800 | 630 | 1095                      | 1275 | 720 | 800 | 680 |

### SEAL DESIGN

- shaft sealed to prevent leakage on both suction and discharge ends using a packing
  - non-flooded packing
  - flooded from foreign source
- types of seals
  - single mechanical seal (balanced, unbalanced)
  - double mechanical seal (balanced, unbalanced)

### MOTORS

- foot-mounted electric motor drive
- driving force transmitted using a flexible coupling
  - flexible coupling without a spacer
  - flexible coupling with a spacer