

# Technical Data

Pump Name

200 DL 57.5

|          |            |                                       |           |
|----------|------------|---------------------------------------|-----------|
| Customer | Date       | 2024-06-13                            | Company   |
| Contact  | Item no.   |                                       | Issued by |
| Phone    | Project    |                                       | Phone     |
| E-mail   | Project ID | Proiect redenumit 2024-06-13 13:12:02 | E-mail    |

## Requested data

|   |                           |       |                                  |                    |          |        |
|---|---------------------------|-------|----------------------------------|--------------------|----------|--------|
| 1 | Pump type                 |       | SUBMERSIBLE SEWAGE PUMP-Non-clog | Fluid              |          | Water  |
| 2 | Number of pumps / Reserve | 1 / 0 |                                  | Liquid temperature | °C       | 20     |
| 3 | Flow                      | m³/h  |                                  | Kin. viscosity     | mm²/s    | 1.005  |
| 4 | Head                      | m     |                                  | Vapour pressure    | bar      | 0.0234 |
| 5 | Geodetic head             | m     |                                  | PH value           |          |        |
| 6 | Inlet pressure (pin)      | bar   | 0                                | Density            | kg/m³    | 998.3  |
| 7 | Available system NPSH     |       |                                  | Solids             | Weight % | 0      |
| 8 | Ambient temperature       | °C    | 20                               |                    |          |        |

## Pump

|    |                      |                                  |                                |                                   |           |      |      |     |
|----|----------------------|----------------------------------|--------------------------------|-----------------------------------|-----------|------|------|-----|
| 9  | Pump Name            | 200 DL 57.5                      | Frequency                      | Hz                                | 50        |      |      |     |
| 10 | Design               | SUBMERSIBLE SEWAGE PUMP-Non-clog | Installation type              |                                   | STANDARD  |      |      |     |
| 11 | Manufacturer         | EBARA                            | Impeller Diameter              | Max.                              | mm        | 263  |      |     |
| 12 | Speed                | rpm                              |                                | 1450                              | Designed  | mm   | 263  |     |
| 13 | No. of Stage         | 1                                |                                | Min.                              | mm        | 263  |      |     |
| 14 | Connection           | Suction side                     | Flow                           | Operating                         | m³/h      |      |      |     |
| 15 | Connection           | Discharge side                   |                                | JIS                               | 10K       | Max- | m³/h | 300 |
| 16 | Max Working Pressure | bar                              |                                |                                   | Min-      | m³/h | 174  |     |
| 17 | Shut-off head        | bar                              | 1.52                           | Head                              | Operating | m    |      |     |
| 18 | Total weight         | kg                               | See the table of "Dimensions". |                                   | - (Qmax.) | m    | 5.0  |     |
| 19 | Shaft power          | kW                               |                                |                                   | - (Qmin.) | m    | 9.6  |     |
| 20 |                      |                                  |                                | Max. Shaft Power at max. impeller | kW        | 7.03 |      |     |
| 21 | Required pump NPSH   | m                                |                                | Efficiency                        | %         |      |      |     |

## Materials

|    |                         |                |                         |  |                  |
|----|-------------------------|----------------|-------------------------|--|------------------|
| 22 | Casing                  | FC200          | Mechanical seal (Lower) |  | SiC/SiC          |
| 23 | Suction Cover           | FC200          | Lubricating Oil         |  | Turbine Oil VG32 |
| 24 | Impeller                | FC200          |                         |  |                  |
| 25 | Shaft                   | SUS403         |                         |  |                  |
| 26 | Motor frame             | FC150          |                         |  |                  |
| 27 | Mechanical seal (Upper) | Carbon/Ceramic |                         |  |                  |

## Motor

|    |                      |   |                  |                  |    |      |
|----|----------------------|---|------------------|------------------|----|------|
| 28 | Manufacturer         | --  | Insulation class |                  | F  |      |
| 29 | Type                 | DL 57.5_380_Three phase                     | Phases           |                  | 3~ |      |
| 30 | Specific design      | Submersible dry type / 50 Hz / Pole pairs 2 | Frame size       |                  |    |      |
| 31 | Rated power          | kW  | 7.5              | Weight           | kg |      |
| 32 | Number of poles      | 4   |                  | Electric voltage | V  | 380  |
| 33 | Speed                | rpm   | 1455             | Electric current | A  | 16.4 |
| 34 | Degree of protection | IP68  |                  |                  |    |      |
| 35 |                      |   |                  |                  |    |      |

## Remarks

# Performance Curve

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## Requested data

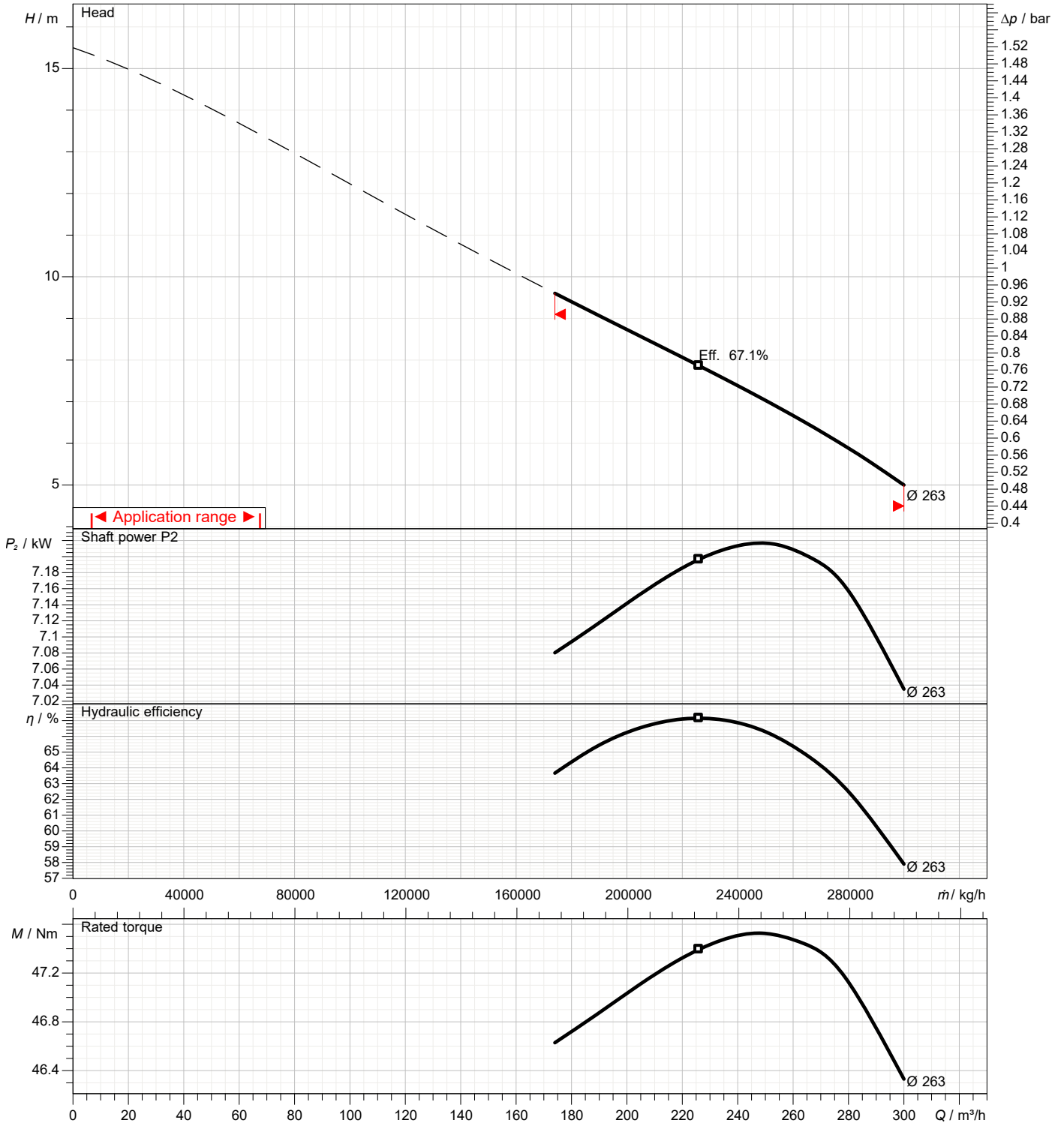
|   |               |      |  |
|---|---------------|------|--|
| 1 | Flow          | m³/h |  |
| 2 | Head          | m    |  |
| 3 | Geodetic head | m    |  |

## Pump

|                            |      |     |                 |     |      |
|----------------------------|------|-----|-----------------|-----|------|
| Operating flow             | m³/h |     | Frequency       | Hz  | 50   |
| Operating head             | m    |     | Number of poles |     | 4    |
| Impeller diameter designed | mm   | 263 | Speed           | rpm | 1450 |

Test standard: ISO 9906:2012 - Grade3B

Water; 20°C; 998.3kg/m³; 1mm²/s

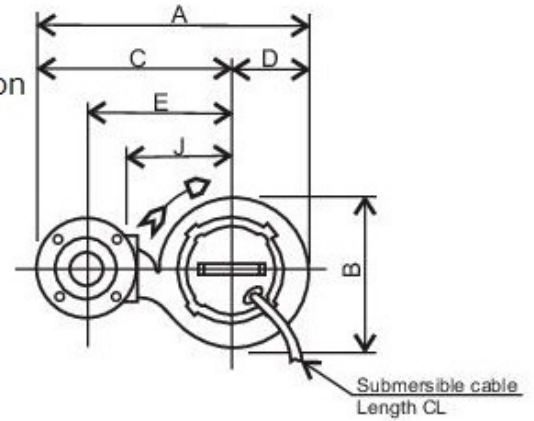
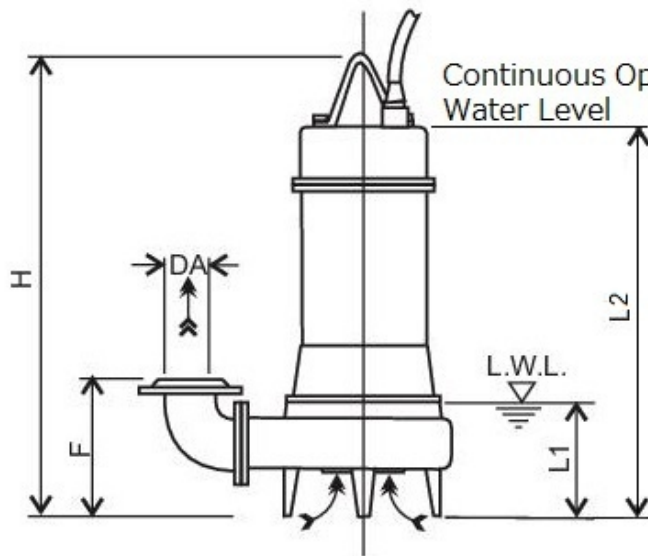


# Dimensions

Pump name

200 DL 57.5

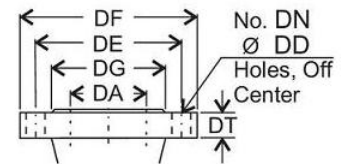
|          |            |                                       |           |
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Note:

- 1/. Operation is limited to 10 minutes at L.W.L. (Low Water Level).
- 2/. Operation is limited 30 minutes with water level below top of motor

**Discharge Flange Dimensions**  
(JIS 10kgf/cm<sup>2</sup>)



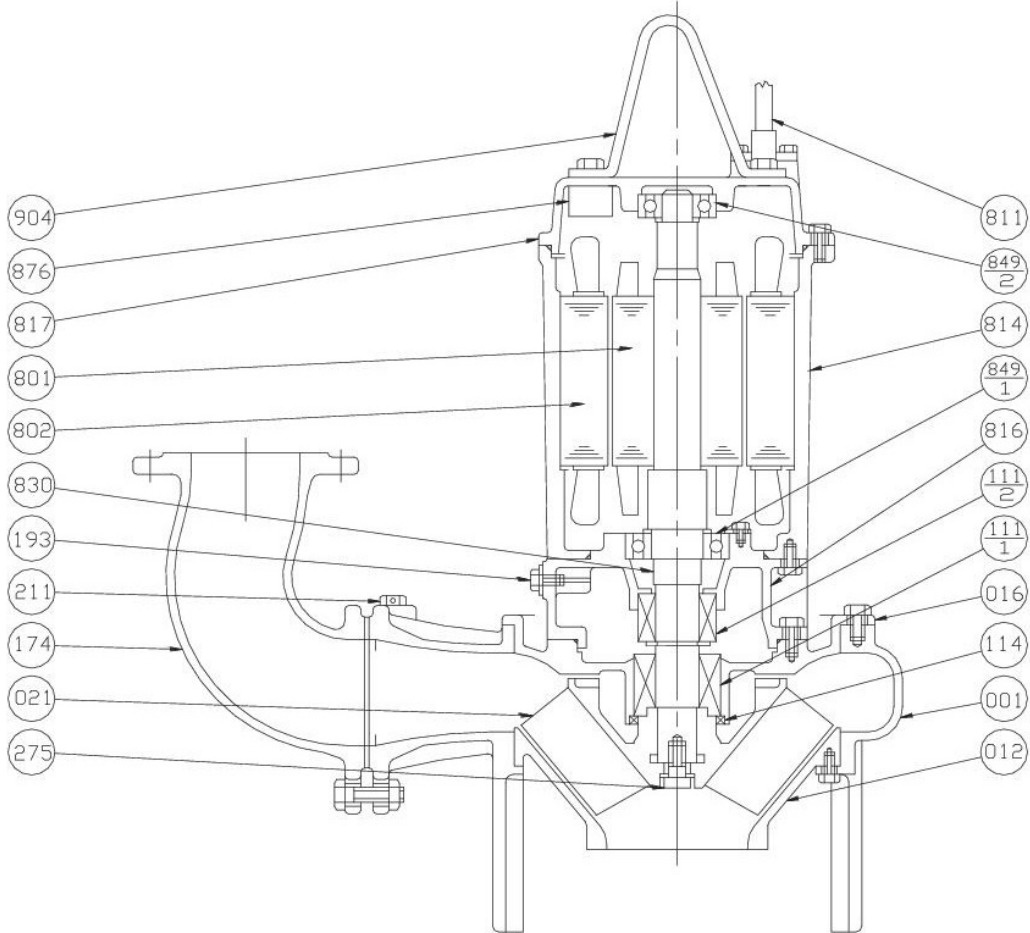
| Pump dimensions |     | mm |  | Suction side |  | mm     |          | Discharge side |  | mm |  |
|-----------------|-----|----|--|--------------|--|--------|----------|----------------|--|----|--|
| A               | 863 |    |  |              |  | DA     | 200      |                |  |    |  |
| B               | 453 |    |  |              |  | DD     | 23       |                |  |    |  |
| C               | 635 |    |  |              |  | DE     | 240      |                |  |    |  |
| CL              | 10m |    |  |              |  | DF     | 330      |                |  |    |  |
| D               | 228 |    |  |              |  | DG     | 262      |                |  |    |  |
| E               | 470 |    |  |              |  | DN Num | 12 (Num) |                |  |    |  |
| F               | 410 |    |  |              |  | DT     | 26       |                |  |    |  |
| H               | 809 |    |  |              |  |        |          |                |  |    |  |
| J               | 320 |    |  |              |  |        |          |                |  |    |  |
| L1              | 285 |    |  |              |  |        |          |                |  |    |  |
| L2              | 709 |    |  |              |  |        |          |                |  |    |  |

# Construction

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| Item Number | Description           | Material                                     | Quantity per unit |
|-------------|-----------------------|--|-------------------|
| 001         | Pump Casing           | FC200 Cast iron                              | 1                 |
| 012         | Suction Cover         | FC200 Cast Iron                              | 1                 |
| 016         | Mechanical Seal Cover | FC200 Cast iron                              | 1                 |
| 021         | Impeller              | FC200 Cast iron                              | 1                 |
| 111-1       | Mechanical Seal       |  | 1                 |
| 111-2       | Mechanical Seal       |  | 1                 |
| 114         | Oil Seal              | NBR Rubber                                   | 1                 |
| 174         | Discharge Bend        | FC200 Cast iron                              | 1                 |
| 193         | Oil Plug              | C3604 or SUS304 Brass or 304 Stainless Steel | 1                 |
| 211         | Airvent Valve         | C3604 Brass                                  | 1                 |
| 275         | Impeller Bolt         | SUS304 Stainless Steel                       | 1                 |

| Item Number | Description           | Material               | Quantity per unit |
|-------------|-----------------------|------------------------|-------------------|
| 801         | Rotor                 |                        | 1                 |
| 802         | Stator                |                        | 1                 |
| 811         | Submersible Cable     |                        | 1                 |
| 814         | Motor Frame           | FC150 Cast Iron        | 1                 |
| 816         | Power Side Bracket    | FC150 Cast Iron        | 1                 |
| 817         | Opposite Side Bracket | FC150 Cast Iron        | 1                 |
| 830         | Shaft                 | SUS403 Stainless Steel | 1                 |
| 849-1       | Ball Bearing          |                        | 1                 |
| 849-2       | Ball Bearing          |                        | 1                 |
| 876         | Protector             |                        | 1                 |
| 904         | Lifting Hanger        | SS Steel               | 1                 |