Ebara Submersible Sewage Pumps (With Cutter)  
Model DF

Features and Applications

Features

Non-clog operation with “cutting” action
- Non-clog semi-open impeller and “cutting” action prevents clogging by fibrous matter.
- Models up to 3.7 kW have a chrysalis shaped suction port, while larger models have a radially grooved suction cover.

Robust construction
- Rugged cast iron construction, all fasteners of stainless steel and a 4 pole motor.

Double mechanical seal in oil chamber
- An oil lubricated double mechanical seal with lower faces of hard silicon carbide provides strong and reliable shaft sealing

In built motor protection
- Quick acting dual response overloads provides protection against overload, lock or open phase.

Automatic operation
- All models up to 3.7 kW are available as automatic (A' type) pumps with inbuilt controls and float switches. No need for separate control panels, simply connect to power source.

Applications

Sewage
Waste water
Storm water drainage

50Hz
Ebara Submersible Sewage Pumps (With Cutter)

Model DF

Performance Chart

50Hz

Model code

80 DFA 5 3.7

Motor output (kW)
Frequency (5 = 50 Hz)

DF = Manual version
DFA = Automatic version

Discharge size (mm)
Ebara Submersible Sewage Pumps (With Cutter)  
Model DF

Dimensions - Manual Models - DF

50Hz

Discharge Flange Dimensions
(JIS 10kgf/cm²)

<table>
<thead>
<tr>
<th>DA</th>
<th>DE</th>
<th>DF</th>
<th>DG</th>
<th>DT</th>
<th>DN</th>
<th>DD</th>
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<td>65</td>
<td>150</td>
<td>175</td>
<td>116</td>
<td>18</td>
<td>4</td>
<td>15</td>
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<td>80</td>
<td>150</td>
<td>185</td>
<td>126</td>
<td>18</td>
<td>4</td>
<td>15</td>
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<td>100</td>
<td>175</td>
<td>210</td>
<td>151</td>
<td>20</td>
<td>8</td>
<td>15</td>
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Note:

1/. L.W.L (Low Water Level)
   Is limited to 10 minutes operation
   at low water level.

2/. Is limited to 30 minutes operation
   with water level below top of motor.

<table>
<thead>
<tr>
<th>Size</th>
<th>Model</th>
<th>Output KW</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>H</th>
<th>J</th>
<th>L1</th>
<th>CL</th>
<th>Weight</th>
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<td>65 DF 51.5</td>
<td>1.5</td>
<td>497</td>
<td>291</td>
<td>353</td>
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<td>200</td>
<td>576</td>
<td>200</td>
<td>140</td>
<td>10 m</td>
<td>52 kg</td>
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<tr>
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<td>80 DF 51.5</td>
<td>1.5</td>
<td>524</td>
<td>292</td>
<td>378</td>
<td>146</td>
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<td>220</td>
<td>597</td>
<td>210</td>
<td>165</td>
<td>10 m</td>
<td>55 kg</td>
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<td>2.2</td>
<td>542</td>
<td>308</td>
<td>388</td>
<td>154</td>
<td>295</td>
<td>220</td>
<td>654</td>
<td>220</td>
<td>165</td>
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<td>67 kg</td>
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<tr>
<td></td>
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<td>328</td>
<td>403</td>
<td>164</td>
<td>310</td>
<td>220</td>
<td>687</td>
<td>235</td>
<td>165</td>
<td>10 m</td>
<td>75 kg</td>
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<td>335</td>
<td>445</td>
<td>169</td>
<td>340</td>
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<td>706</td>
<td>235</td>
<td>185</td>
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<td>369</td>
<td>460</td>
<td>186</td>
<td>355</td>
<td>323</td>
<td>768</td>
<td>250</td>
<td>205</td>
<td>10 m</td>
<td>123 kg</td>
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</table>

Units: mm unless otherwise specified
Ebara Submersible Sewage Pumps (With Cutter)

Dimensions with QDC

**Applicable Models - 65 & 80 DF**

| Pump Model | A  | P1 | P2 | G1 | G2 | F  | H1 | H2 | H3 | L1 | L6  | BN1 | BN2 | D1 | E1 | QDC Model | Weight |
|------------|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|----|    |           |        |
| 65 DF 51.5 | 464| 75 | 95 | 120| 160| 250| 145| 190| 240| 140| 50  | 75  | 95  | 12 | 140| LM65      | 14 kg  |
| 80 DF 51.5 | 481| 75 | 90 | 125| 165| 285| 175| 230| 280| 165| 65  | 75  | 90  | 15 | 155| LM80      | 17 kg  |
| 80 DF 52.2 | 499| 75 | 90 | 125| 165| 285| 175| 230| 280| 165| 65  | 75  | 90  | 15 | 155| LM80      | 17 kg  |
| 80 DF 53.7 | 524| 75 | 90 | 125| 165| 285| 175| 230| 280| 165| 65  | 75  | 90  | 15 | 155| LM80      | 17 kg  |

Units: mm unless otherwise specified

**Note:**
1/. For detailed dimensions of the pumps, refer to separate dimension data sheets.
2/. The discharge bend and companion flange supplied with the pump are used with the QDC.
3/. The weight in dimension tables refers only to the weight of the QDC.
4/. Standard accessories supplied with QDC include:
   - Connector body with foundation bolts.
   - Guide pipe support
   - Sliding Glide
   - Adaptor Flange
   Guide Pipe is not supplied.

**Discharge Flange** (JIS 10kgf/cm²)

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EBARA CORPORATION
Ebara Submersible Sewage Pumps (With Cutter)

Dimensions with QDC

Applicable Models - 100 DF

Note:
1/. For detailed dimensions of the pumps, refer to separate dimension data sheets.
2/. The discharge bend and companion flange supplied with the pump are used with the QDC.
3/. The weight in dimension tables refers only to the weight of the QDC.
4/. Standard accessories supplied with QDC include:
   - Connector body with foundation bolts.
   - Guide pipe support
   - Sliding Glide
   - Adaptor Flange
   Guide Pipe is not supplied.

Discharge Flange
(JIS 10kgf/cm²)

Units: mm unless otherwise specified

| Pump Model | A  | P1  | P2  | G1  | G2  | F  | H1  | H2  | H3  | L1  | L6  | BN1 | BN2 | BM  | BY1 | BW  | DM  | I  | D1  | E1  | QDC Model | Weight |
|------------|----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|----------|--------|
| 100 DF 53.7 | 589 | 105 | 105 | 185 | 210 | 365| 240 | 265 | 335 | 185 | 115 | 100 | 40  | 220 | 180 | 230 | 800 | 700 | 19  | 175 | LL100    | 46 kg  |
| 100 DF 55.5 | 621 | 105 | 105 | 185 | 210 | 365| 240 | 265 | 335 | 205 | 42  | 100 | 40  | 220 | 180 | 230 | 800 | 700 | 19  | 175 | LL100    | 46 kg  |
| 100 DF 57.5 | 648 | 105 | 105 | 185 | 210 | 365| 240 | 265 | 335 | 205 | 42  | 100 | 40  | 220 | 180 | 230 | 800 | 700 | 19  | 175 | LL100    | 46 kg  |

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