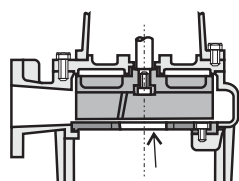




Model DF

Submersible Sewage Pumps

Submersible sewage pump with non-clog semi open impeller, with "cutting effect", to prevent clogging by fibrous matter. Suitable for sewage, waste water, storm water drainage, etc.



"Chrysalis" shaped suction port

up to
2.2 kW



3.7 kW



Impeller Type & Solids Handling

Semi-Open
Non-clog



Model	Ø kW	65 All	80 All
Foreign matter Diameter (mm)		40	46
Length of Fibre (mm)		195	240

Specifications

- Submersible pump with non-clog semi open impeller
- Maximum solids handling: refer to table
- Maximum liquid temperature: 40 °C
- Maximum submergence: 8 m

Materials

- Pump casing: Cast Iron
- Impeller: Cast Iron
- Suction cover: Cast Iron
- Shaft: 403 Stainless Steel
- Motor frame: Cast Iron
- Fasteners: 304 Stainless Steel
- Mechanical seal: Double mechanical seal in oil chamber, Silicon Carbide lower faces, Carbon/Ceramic upper faces.

Motor Data

- Air filled, dry submersible, 4 pole, 50 Hz
- Insulation class F
- IP68 protection
- 3 Phase - 400 Volt
- In built overload protection

Range

- 60 to 80 mm Ø discharge
- 1.5 to 3.7 kW - 3 Phase (Manual only)

Supply

- Cable: 10 m
- Discharge elbow with screwed companion flange

Accessories

- Quick Discharge Connectors (QDC) available

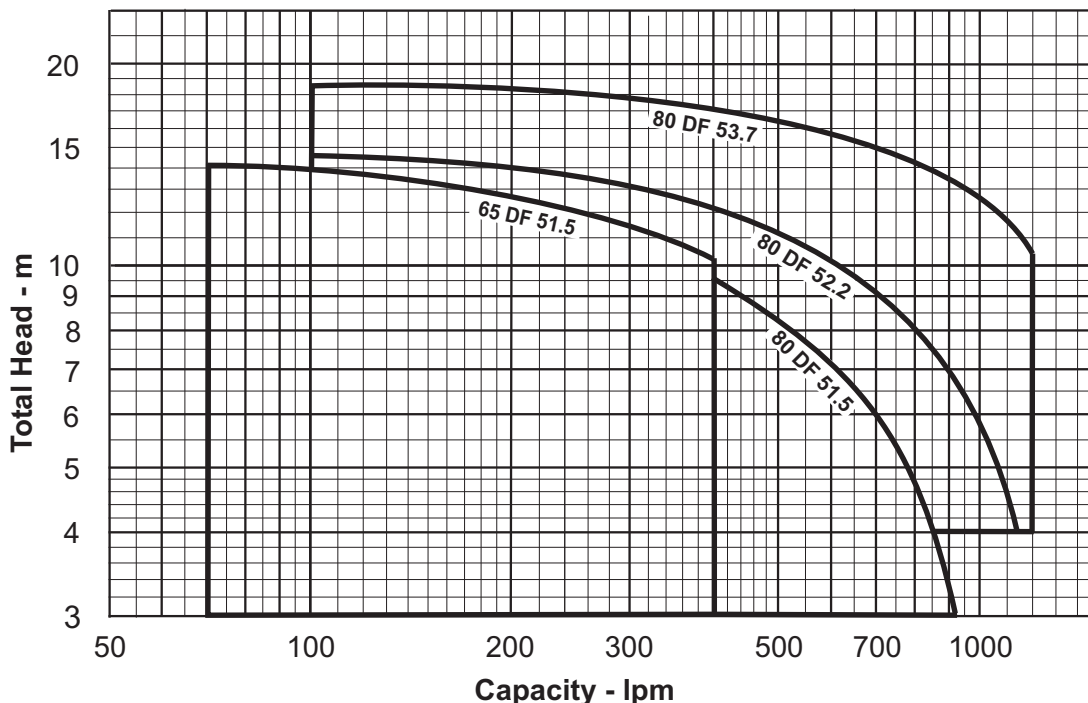
Performance Curve

Synchronous
Speed:
1500 rpm

Applicable
standard
of test :
ISO 9906
Annex A

Model Code

80 DF 5 3.7
└─ Motor output (kW)
└─ Frequency (5 = 50 Hz)
└─ Model
└─ Discharge size (mm)



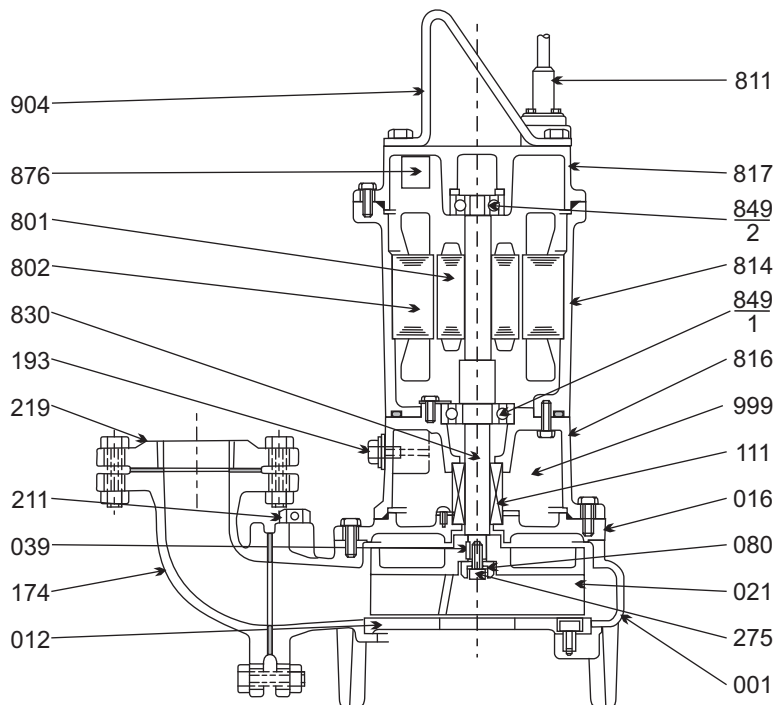
Performance Table

Pump Model	Motor Output	Discharge Ø mm	Full Load Current 3 PH, 400 V	Capacity - lpm									
				200	300	400	500	600	800	1000	1200		
65 DF 51.5	1.5 kW	65 mm	3.9 A	12.6	11.4	10.0	8.5						
80 DF 51.5	1.5 kW	80 mm	3.9 A			9.3	8.2	7.1	4.7				
80 DF 52.2	2.2 kW	80 mm	5.2 A			12.0	11.0	10.0	7.8	5.7			
80 DF 53.7	3.7 kW	80 mm	8.3 A			17.0	16.3	15.6	14.0	12.6	10.4		

Sectional Drawing

Model **DF**

Note: Typical sectional drawing only.



Mechanical Seal Lubricating Oil			
Motor - kW	1.5	2.2	3.7
Capacity - ml	920	1500	

No.	Description	Material	Qty.
001	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
039	Impeller key	SUS420 Stainless Steel	1
080	Bushing	St Steel	1
111	Mechanical seal	Silicon Carbide lower faces Carbon vs Ceramic upper faces	1
174	Discharge elbow	FC200 Cast Iron	1
193	Oil plug	SUS304 Stainless Steel	1
211	Air vent valve	C3604 Brass	1
219	Companion flange	FC200 Cast Iron	1
275	Impeller bolt	SUS304 Stainless Steel	1
801	Rotor	—	1
802	Stator	—	1
811	Cable	—	1
814	Motor frame	FC150 Cast Iron	1
816	Lower bracket	FC150 Cast Iron	1
817	Upper bracket	FC150 Cast Iron	1
830	Shaft #	SUS403 Stainless Steel	1
849-1	Ball bearing	—	1
849-2	Ball bearing	—	1
876	Auto cut	—	1
904	Lifting hanger	St Steel	1
999	Oil	Turbine Oil SAE 10W or 20W	*

refers to pump side of shaft material

* See table for oil capacity

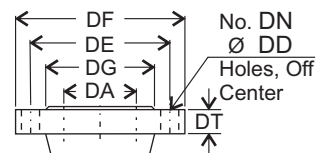
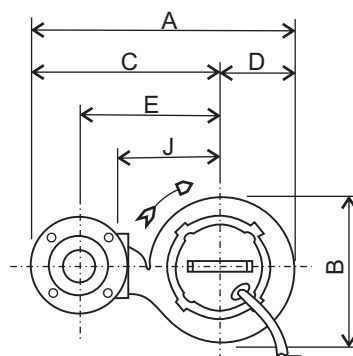
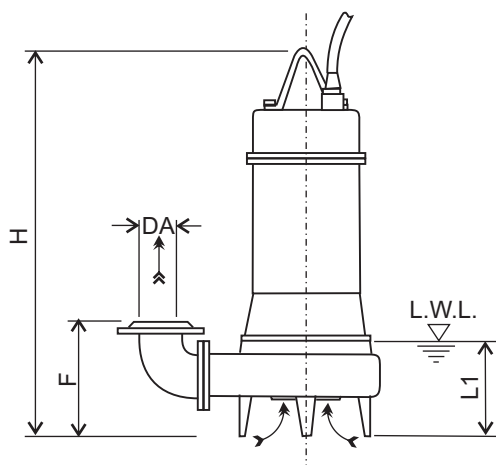
Dimensions

Model **DF**

Units: mm unless otherwise specified

Discharge Flange Dimensions
(JIS 10kgf/cm²)

DA	DE	DF	DG	DT	DN	DD
65	140	175	116	18	4	15
80	150	185	126	18	8	15



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.

Submersible cable Length CL

Size DA	Pump Model	Output kW	A	B	C	D	E	F	H	J	L1	CL	Weight kg
65	65 DF 51.5	1.5	497	291	353	144	265	200	576	200	140	10 m	52
80	80 DF 51.5	1.5	524	292	378	146	285	220	597	210	165	10 m	55
	80 DF 52.2	2.2	542	308	388	154	295	220	654	220	165	10 m	67
	80 DF 53.7	3.7	567	328	403	164	310	220	687	235	165	10 m	75

Specifications subject to change without notice



EBARA

EBARA PUMPS AUSTRALIA PTY. LTD.

Data Sheet

DF 13-03