



EBARA

Certified System
Quality
ISO 9001
SAI GLOBAL
Certificate No. 04022106

DL/DF13CT-R0E

D'SERIES SUBMERSIBLE PUMPS

Model DL / DF

50Hz



DL & DF SUBMERSIBLE PUMPS

For Sewage

A comprehensive range of Reliable, High quality Submersible pumps.

Of Robust Cast iron construction, with many design features.

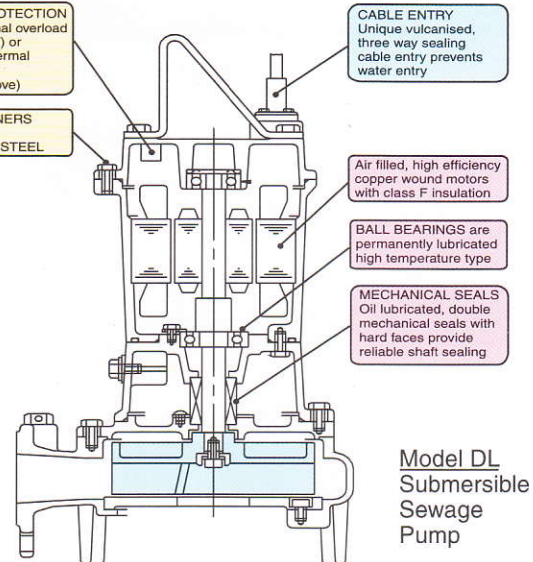
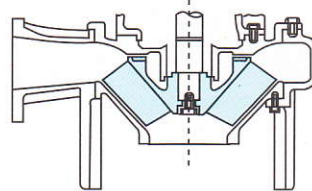
Model DL

Features

- Non-Clog Semi-Open Impellers prevents clogging by fibrous matter.
- Full Range of Models up to 250 mm discharge size and 22 kW available.

Applications

- Sewage
- Waste water



Model DL Submersible Sewage Pump

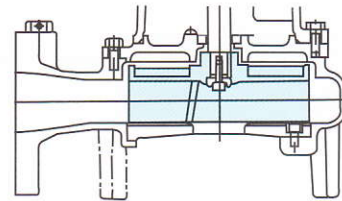
Model DF (with Cutter)

Features

- Non-Clog Semi-Open Impellers prevents clogging by fibrous matter.
- Full Range of Models up to 100 mm discharge size and 3.7 kW available.

Applications

- Sewage
- Waste water



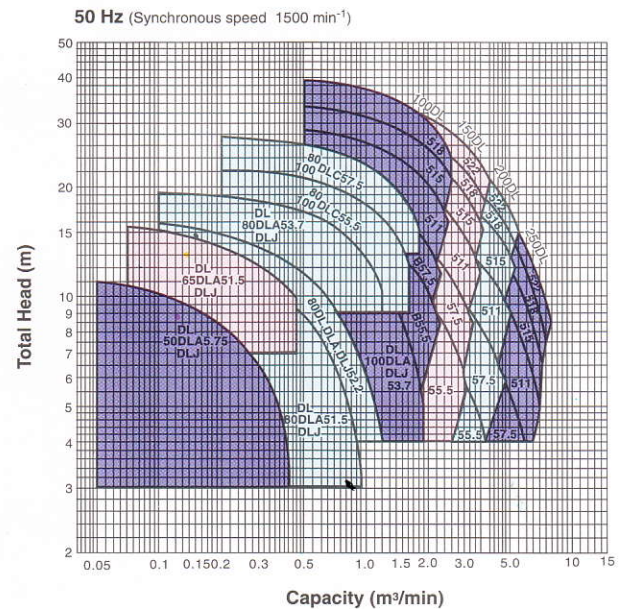
Model DF Submersible Sewage Pump

Specifications

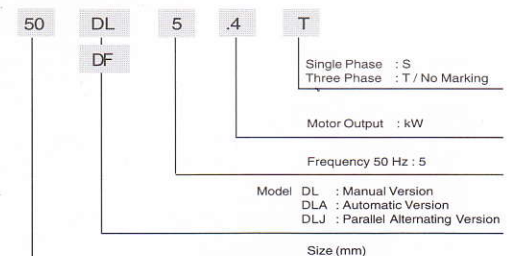
Description		Pump	
Model		DL	DF (With Cutter)
No. of Pole		4	4
Liquid Handled	Type of liquid	Sewage, Waste water	Sewage
	Temperature	0°C - 40°C for DL, DLA 0°C - 32°C for DLJ	0°C - 40°C for DF, DFA 0°C - 32°C for DFJ
	Maximum solids size	50DL : 35 mm, 65DL : 40 mm, 80DL, 100DL : 46 mm, 100DL, DLB : 57 mm, 150DL : 68 mm, 200DL : 73 mm, 250DL : 79 mm.	50DF : 35 mm, 65DF : 40 mm, 80DF : 46 mm, 100DF : 57 mm
Maximum Submergence		8 m	8 m
Minimum Submergence		Refer to water level (LWL) in Dimensions	Refer to water level (LWL) in Dimensions
Synchronous speed		1500 min ⁻¹	1500 min ⁻¹
Construction	Mechanical Seal	Double Mechanical Seal	Double Mechanical Seal
	Impeller	Semi-open, non-clog	Semi-open, non-clog
	Bearing	Prelubricated bearing	Prelubricated bearing
Material	Casing	Cast Iron	Cast Iron
	Impeller	Cast Iron	Cast Iron
	Shaft	403 Stainless Steel	403 Stainless Steel
	Mechanical Impeller side	Silicon carbide vs Silicon carbide	Silicon carbide vs Silicon carbide
	Seal Motor side	Ceramic vs Carbon	Ceramic vs Carbon
	Packing	NBR	NBR
Motor			
Type	4 pole, air-filled watertight		
Insulation	Class F		
Protection	Built in overload protector (up to 7.5 kW) ; Built in temperature detector protection (11 - 22 kW)		
Accessories			
Standard	Submersible cable : 0.4 - 1.5 kW = 6 m; 2.2 - 3.7 kW = 10m, Float switch for DLA, DLJ, DVA, DVJ, DFA, DFJ		
Optional	Quick discharge connector		

Model DL

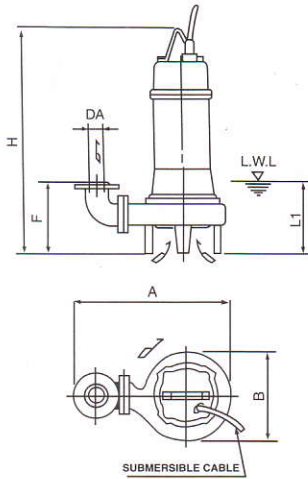
Selection Charts



Model Code



Manual type



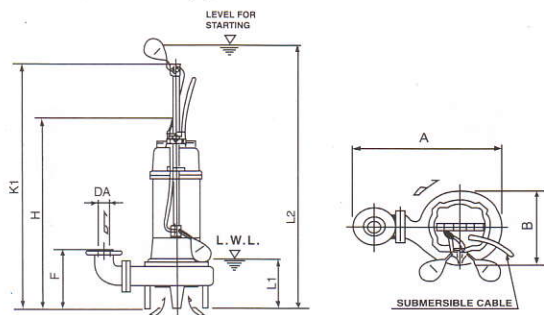
Unit mm

Size \varnothing	Model	Output kW	Pump and Motor					Weight (Mass) kg
			A	B	F	H	L1	
50	50DL5.75	0.75	411	239	175	510	120	34
65	65DL51.5	1.5	497	291	200	576	140	52
	80DL51.5	1.5	524	292	220	597	165	55
	80DL52.2	2.2	542	308	220	654	165	67
	80DL53.7	3.7	567	328	220	687	165	75
100	100DL53.7	3.7	614	335	250	705	185	79
	100DLB55.5	5.5	646	369	323	767	205	123
	100DLC55.5	5.5	660	379	322	752	205	134
	100DLB57.5	7.5	673	385	323	759	205	141
	100DLC57.5	7.5	690	399	320	750	205	148
	100DL511	11	701	402	323	858	205	180
	100DL515	15	741	441	330	954	205	230
	100DL518	18.5	741	441	330	958	205	285

Unit mm

Size \varnothing	Model	Output kW	Pump and Motor					Weight (Mass) kg
			A	B	F	H	L1	
150	150DL55.5	5.5	750	398	381	798	245	146
	150DL57.5	7.5	780	418	377	783	245	158
	150DL511	11	810	438	377	882	245	199
	150DL515	15	810	438	377	971	245	237
	150DL518	18.5	848	476	381	979	245	300
	150DL522	22	848	476	381	979	245	325
	200DL55.5	5.5	832	430	414	825	285	160
	200DL57.5	7.5	863	453	410	808	285	176
200	200DL511	11	863	453	410	907	285	212
	200DL515	15	896	479	411	994	285	260
	200DL518	18.5	932	512	415	1001	285	305
	200DL522	22	932	512	415	1001	285	330
	250DL57.5	7.5	969	525	622	903	400	260
	250DL511	11	993	541	634	999	400	320
250	250DL515	15	1007	549	646	1085	400	380
	250DL518	18.5	1007	549	646	1089	400	420
	250DL522	22	1007	549	646	1089	400	440

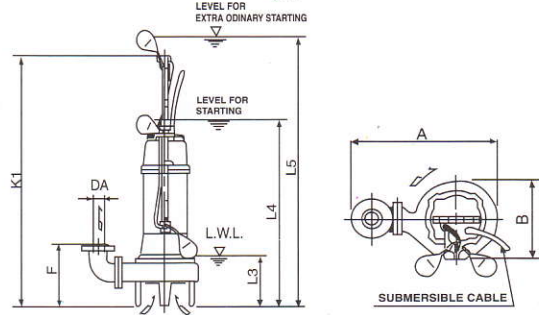
Automatic type



Unit mm

Size \varnothing	Model	Output kW	Pump and Motor						Weight (Mass) kg
			A	B	F	K	L1	L2	
50	50DLA5.75	0.75	411	239	175	630	250	650	36
65	65DLA51.5	1.5	497	291	200	840	320	860	55
	80DLA51.5	1.5	524	292	220	840	320	860	58
80	80DL52.2	2.2	542	308	220	840	320	860	70
	80DLA53.7	3.7	567	328	220	840	320	860	78
	100DLA53.7	3.7	614	335	250	840	320	860	85

Parallel Alternate type

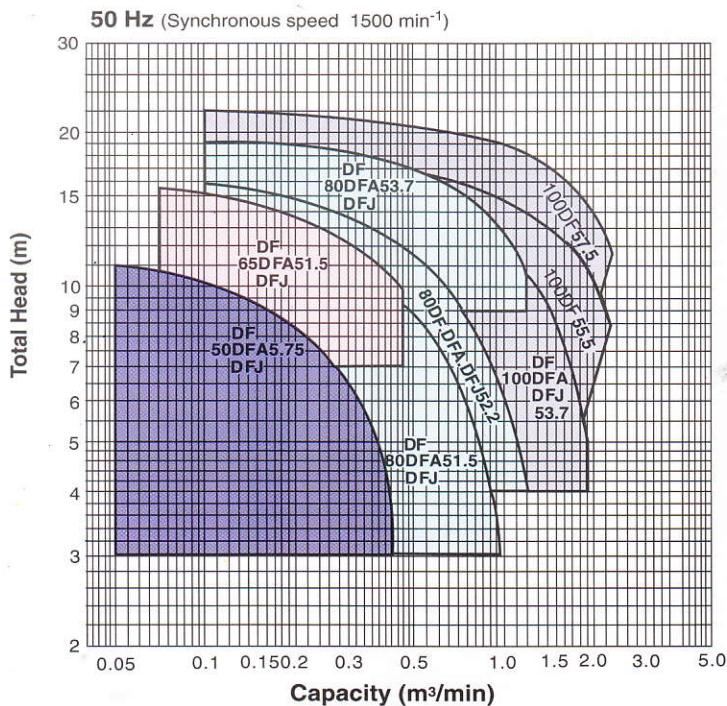


Unit mm

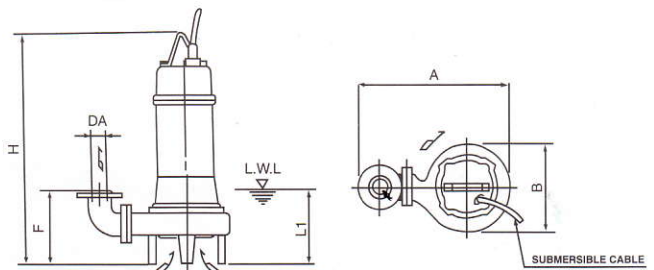
Size \varnothing	Model	Output kW	Pump and Motor						Weight (Mass) kg	
			A	B	F	K1	L3	L4		L5
50	50DLJ5.75	0.75	411	239	175	740	220	570	780	36
65	65DLJ51.5	1.5	497	291	200	950	290	780	970	55
	80DLJ51.5	1.5	524	292	220	950	290	780	970	58
80	80DLJ52.2	2.2	542	308	220	950	290	780	970	70
	80DLJ53.7	3.7	567	328	220	950	290	780	970	78
	100DLJ53.7	3.7	614	335	250	950	290	780	970	85

Model DF (with Cutter)

Selection Charts



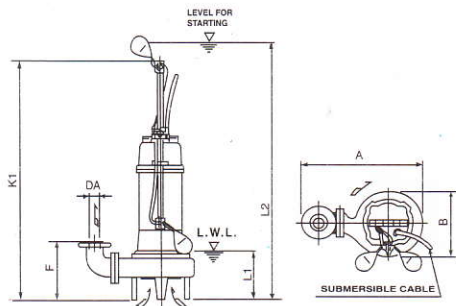
Manual type



Unit mm

Size \varnothing	Model	Output kW	Pump and Motor					Weight (Mass) kg
			A	B	F	H	L1	
50	50DF5.75	0.75	411	239	175	510	120	34
65	65DF51.5	1.5	497	291	200	576	140	52
80	80DF51.5	1.5	524	292	220	597	165	55
	80DF52.2	2.2	542	308	220	654	165	67
	80DF53.7	3.7	567	328	220	687	165	75
100	100DF53.7	3.7	614	335	250	705	185	79
	100DF55.5	5.5	646	369	323	767	205	123
	100DF57.5	7.5	673	385	323	759	205	141

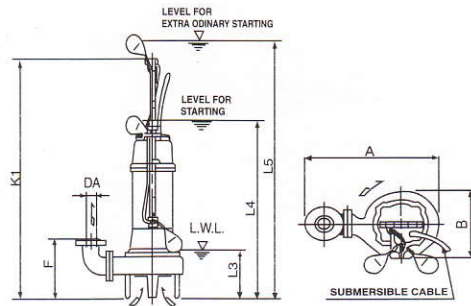
Automatic type



Size ϕ	Model	Output kW	Pump and Motor						Weight (Mass) kg
			A	B	F	K	L1	L2	
50	50DFAS.75	0.75	411	239	175	630	250	650	36
65	65DFAS1.5	1.5	497	291	200	840	320	860	55
	80DFAS1.5	1.5	524	292	220	840	320	860	58
80	80DFAS2.2	2.2	542	308	220	840	320	860	70
	80DFAS3.7	3.7	567	328	220	840	320	860	78
100	100DFAS3.7	3.7	614	335	250	840	320	860	85

Unit: mm

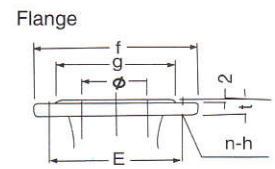
Parallel Alternate type



Size ϕ	Model	Output kW	Pump and Motor								Weight (Mass) kg
			A	B	F	K1	L3	L4	L5		
50	50DFJ5.75	0.75	411	239	175	740	220	570	760	36	
65	65DFJ51.5	1.5	497	291	200	950	290	780	970	55	
	80DFJ51.5	1.5	524	292	220	950	290	780	970	58	
80	80DFJ52.2	2.2	542	308	220	950	290	780	970	70	
	80DFJ53.7	3.7	567	328	220	950	290	780	970	78	
100	100DFJ53.7	3.7	614	335	250	950	290	780	970	85	

Unit: mm

Flange Dimensions



ϕ	e	f	g	t	n	h
50	120	155	100	18	4	15
65	140	175	120	18	4	15
80	150	185	130	18	8	15
100	175	210	155	20	8	15
150	240	280	215	22	8	19
200	290	330	265	24	12	19
250	355	400	325	30	12	25
300	400	445	370	32	16	25

Unit: mm

Options

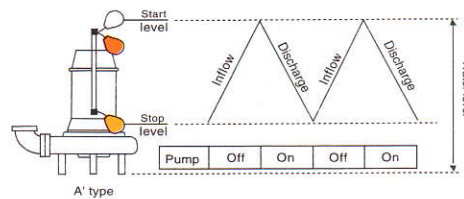
Automatic Operation ("A", "J" type)

All models up to 3.7kW are available as automatic (A' type) or parallel alternating (J' type) pumps with inbuilt control devices and float switches. There is no need for an external control panel, and operation can begin as soon as the pumps are installed and connected to a power source.

Single Pump Installation ("A" type)

A single automatic (A' type) pump is installed in the sump.

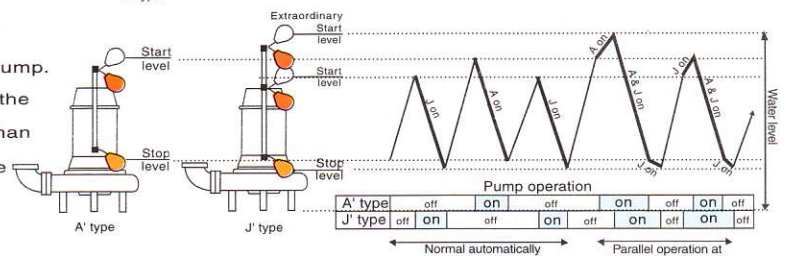
The pump automatically starts when the water level in the sump reaches the "start level", and stops when the pump has lowered the water level to the "stop level".



Duplex Pump Installation ("A" & "J" type)

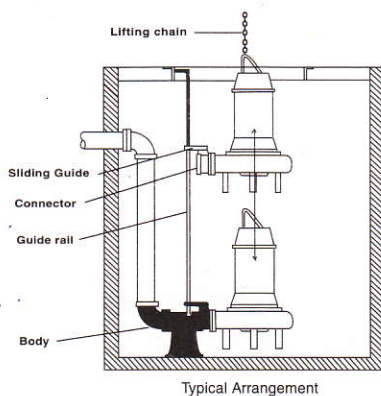
Two pumps, one A' type and one J' type are installed in the sump.

In normal operating conditions, operation alternates between the two pumps. In times of extraordinary inflow (inflow is greater than the capacity of a single pump), then the two pumps will operate together in parallel operation.



Quick Discharge Connection (QDC)

An optional quick discharge connector is available to suit all Ebara D'series submersible pumps, allowing easy removal and replacement of the pumps for maintenance purposes without having to enter the sump.



Typical Arrangement

Float Switch

FLOAT SWITCH	
Model	CDL024060 A
Temperature	0-50°C
Function of contact	Up = ON Down = OFF
Voltage	AC 24V DC 24 V
Max Current	AC 0.5A DC 0.5A
Contact Capacity	AC 10 VA DC 10 VA
Lead Wire	2x0.2mm ² x6m



Note: (1) Full details of the A' type, J' type and QDC dimensions are available in the respective model's Technical Data.
(2) All specifications subject to change without prior notice.



Distributor / Dealer