



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

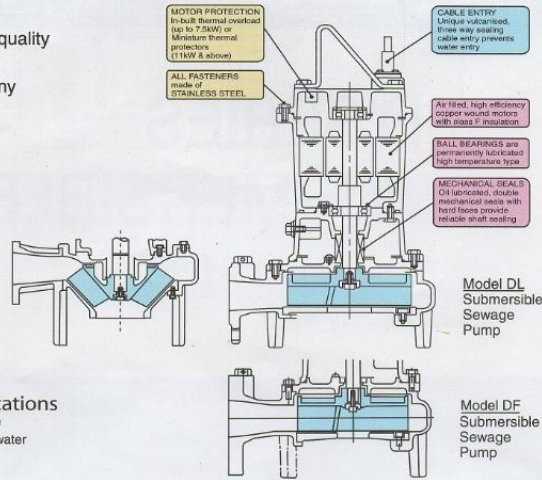
Model DF (with Cutter)

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

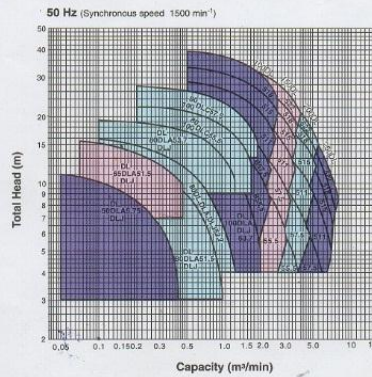


Specifications

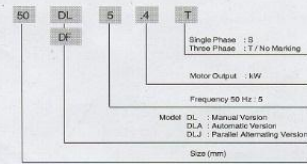
Description	Pump	
Model	DL	DF (With Cutter)
No. of Pole	4	4
Liquid Handled	Type of liquid	Sewage, Waste water
	Temperature	0°C - 40°C for DL, DLA 0°C - 32°C for DLJ
	Maximum solids size	50DL: 35 mm, 60DL: 40 mm, 80DL: 100 D.L.C: 46 mm, 100DL, DLB: 57 MM, 150DL: 69 mm, 200DL: 73 mm, 250DL: 79 mm.
Maximum Submergence	8 m	8 m
Minimum Submergence	Refer to water level (L.W.L.) in Dimensions	Refer to water level (L.W.L.) in Dimensions
Synchronous speed	1500 min ⁻¹	1500 min ⁻¹
Construction	Mechanical Seal	Double Mechanical Seal
	Impeller	Semi-open, non-clog
	Bearing	Pre-lubricated bearing
	Casing	Cast Iron
Material	Impeller	Cast Iron
	Shaft	403 Stainless Steel
	Mechanical Impeller side	Silicon carbide vs Silicon carbide
	Seal Motor side	Ceramic vs Carbon
	Packing	NBR
Motor		
Type	4 pole, air-filled, water-tight	
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 .04-1.5 kW = 6 m; 2.2-3.7 kW = 10m, Float switch for DLA, DLJ, DVA, DVJ, DFA, DFJ	
Optional	Quick discharge connector	

Model DL

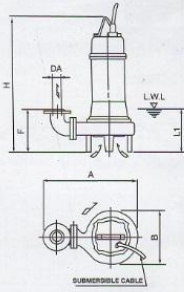
Selection Charts



Model Code



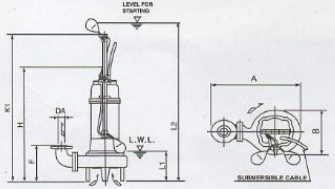
Manual type



Size Ø	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
	65DL51.5	1.5	524	292	220	587	165	55
	80DL52.2	2.2	542	308	220	654	165	67
80	80DL53.7	3.7	567	328	220	687	165	75
	100DL53.7	3.7	614	335	250	705	185	79
	100DL55.5	5.5	646	369	323	767	205	123
100	100DL55.5	5.5	660	379	322	752	205	134
	100DL57.5	7.5	673	385	323	759	205	141
	100DL57.5	7.5	690	399	320	750	205	148
	100DL511	11	701	402	323	868	205	180
	100DL515	15	741	441	330	954	205	230
100DL518	18.5	741	441	330	956	205	285	

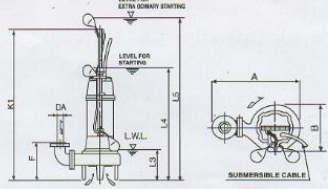
Size Ø	Model	Output kW	Pump and Motor					Weight (Mass) kg
			A	B	F	H	L1	
150	150DL55.5	5.5	750	398	381	708	245	148
	150DL57.5	7.5	780	418	377	783	245	158
	150DL511	11	810	438	377	882	245	199
	150DL515	15	810	438	377	971	245	237
	150DL518	18.5	848	476	381	979	245	300
200	150DL522	22	848	476	381	979	245	325
	200DL55.5	5.5	832	430	414	825	285	160
	200DL57.5	7.5	853	453	410	808	285	176
	200DL511	11	853	453	410	907	285	212
	200DL515	15	896	479	411	994	285	280
250	200DL518	18.5	932	512	415	1001	285	305
	200DL522	22	932	512	415	1001	285	330
	250DL57.5	7.5	969	525	422	903	400	260
	250DL511	11	993	541	434	999	400	320
	250DL515	15	1007	549	446	1085	400	380
250DL518	18.5	1007	549	446	1089	400	420	
250DL522	22	1007	549	446	1089	400	440	

Automatic type



Size Ø	Model	Output kW	Pump and Motor							Weight (Mass) kg
			A	B	F	K	L1	L2		
50	50DLA51.5	0.75	411	235	175	330	200	90	31	
65	65DLA51.5	1.5	497	291	200	340	200	90	35	
	65DLA51.5	1.5	524	292	220	340	200	90	39	
80	80DLA52.2	2.2	542	308	220	340	200	90	41	
	80DLA53.7	3.7	567	328	220	340	200	90	45	
100	100DLA53.7	3.7	614	335	250	340	200	90	49	

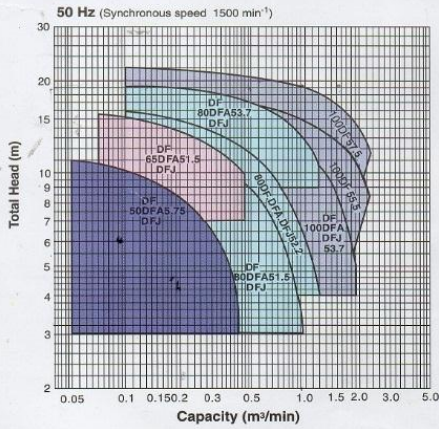
Parallel Alternate type



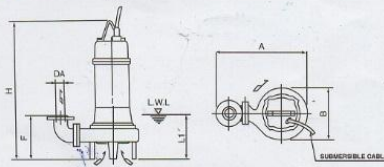
Size Ø	Model	Output kW	Pump and Motor							Weight (Mass) kg
			A	B	F	K1	L3	L4	L5	
50	50DLA51.5	0.75	411	239	175	340	220	90	36	
65	65DLA51.5	1.5	497	291	200	350	220	90	40	
	65DLA51.5	1.5	524	292	220	350	220	90	44	
80	80DLA52.2	2.2	542	308	220	350	220	90	46	
	80DLA53.7	3.7	567	328	220	350	220	90	50	
100	100DLA53.7	3.7	614	335	250	350	220	90	54	

Model DF (with Cutter)

Selection Charts

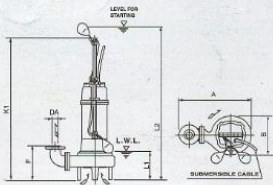


Manual type



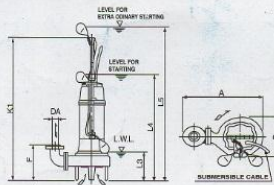
Size Ø	Model	Output kW	Pump and Motor					Weight (Mass) kg
			A	B	F	H	L1	
50	50DF5.75	0.75	411	239	175	510	120	34
65	65DF51.5	1.5	497	291	200	576	140	52
	80DF51.5	1.5	524	292	220	597	165	55
80	80DF52.2	2.2	542	308	220	654	165	67
	80DF53.7	3.7	567	328	220	687	165	75
	100DF53.7	3.7	614	335	250	705	185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

Automatic type



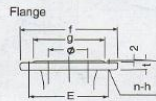
Size Ø	Model	Output kW	Pump and Motor						Weight (Pump) kg
			A	B	F	K	L1	L2	
Ø	SDCFAB15	0.75	471	239	115	800	250	880	38
Ø	SDCFAB15	1.5	467	291	200	840	320	880	55
Ø	SDCFAB15	1.5	524	300	226	840	320	880	59
Ø	SDCFAB22	2.2	540	308	220	840	320	880	70
Ø	SDCFAB17	3.7	567	326	226	840	320	880	78
1W	SDCFAB17	3.7	614	335	250	840	320	880	85

Parallel Alternate type



Size Ø	Model	Output kW	Pump and Motor						Weight (Pump) kg
			A	B	F	K1	L1	L2	
Ø	SDCFJ15	0.75	471	239	115	740	220	870	38
Ø	SDCFJ15	1.5	467	291	200	690	200	870	58
Ø	SDCFJ15	1.5	524	300	220	690	200	870	58
Ø	SDCFJ22	2.2	540	308	220	690	200	870	70
Ø	SDCFJ17	3.7	567	326	220	690	200	870	78
1W	SDCFJ17	3.7	614	335	250	690	200	870	85

Flange Dimensions



Ø	f	D	1	n	h
90	120	155	100	18	4
95	140	175	100	18	4
100	150	185	100	18	6
100	175	210	155	20	8
150	240	280	218	22	8
200	290	330	265	24	12
250	335	400	285	30	12
300	400	465	370	30	18

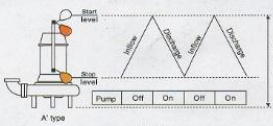
Options

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.

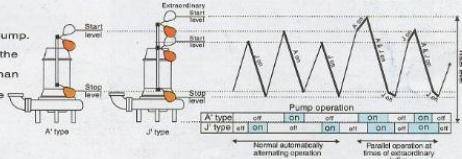
Single Pump Installation ("A" type)

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".



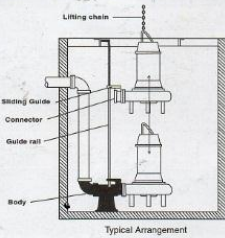
Duplex Pump Installation ("A" & "J" type)

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.



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.

Float Switch

FLOAT SWITCH	
Model	CDL024060 A
Temperature	0-50°C
Function of contact	Up = ON Down = OFF
Voltage	AC 24V DC 24V
Max Current	AC 0.5A DC 0.5A
Contact Capacity	AC 10 VA DC 1 VA
Lead Wire	2x0.2mm ² x6m



Distributor / Dealer