



EBARA

ISO 9001 : 2000
Reg. No. QEC22040
Quality Endorsed
Company



D8001-5

D'SERIES SUBMERSIBLE PUMPS

Model DS / DVS / DL / DF

50Hz



D'SERIES SUBMERSIBLE PUMPS

For Sump, Effluent,
Waste water
and Sewage.

A comprehensive range
of Reliable, High quality
Submersible pumps.

Of Robust Cast iron
construction, with many
design features.

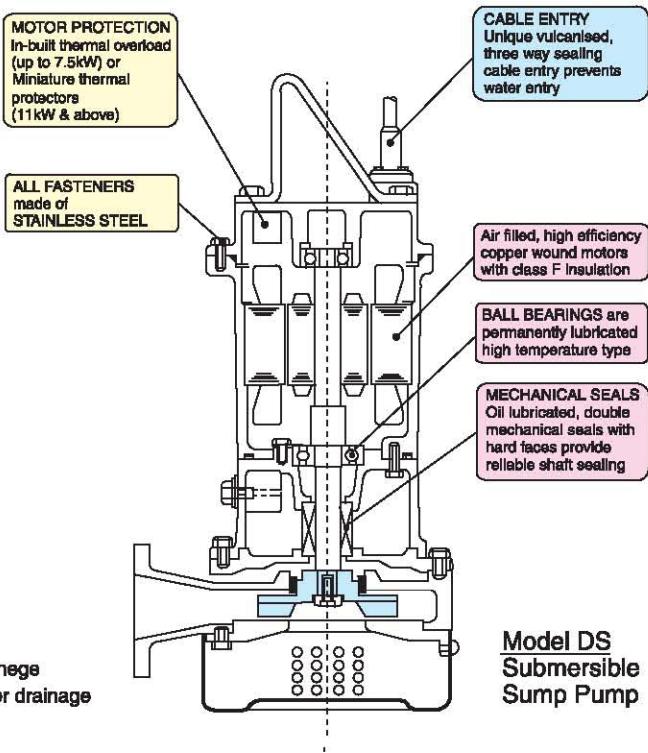
Model DS

■ FEATURES

- Efficient Semi-Open Impeller.
- Strainer prevents blockages.

■ APPLICATIONS

- Purification tank drainage
- Rain and spring water drainage
- Water supply



Model DS
Submersible
Sump Pump

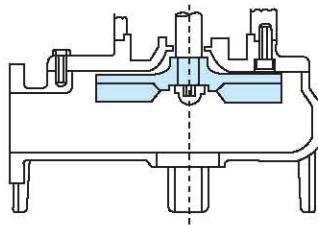
Model DVS

■ FEATURES

- Semi-Vortex Impeller offers non-clog operation and allows pumping of foreign matter up to 60-70% of discharge size.
- Easy Maintenance.

■ APPLICATIONS

- Ideal for waste water applications containing soft or fibrous solids
- Industrial waste water drainage
- Septic effluent
- Miscellaneous drainage

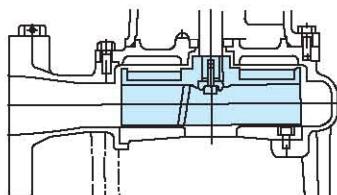


Model DVS
Submersible
Semi-Vortex
Pump

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.



Model DL
Submersible
Sewage
Pump

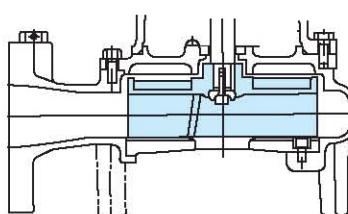
Model DF (with Cutter)

■ 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

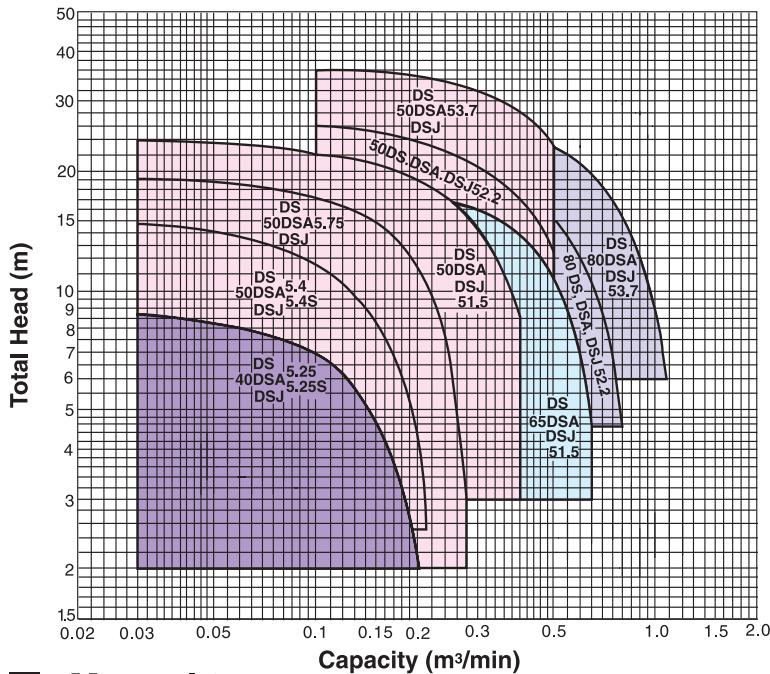
Specifications

Description		Pump			
Model	DS	DVS	DL	DF (With Cutter)	
No. of Pole	2	2	4	4	
Type of Liquid	Sump 0°C - 40°C for DS, DSA 0°C - 32°C for DSU	River water, Sewage 0°C - 40°C for DVS, DVA 0°C - 32°C for DVU	Sewage, Waste water 0°C - 40°C for DL, DLA 0°C - 32°C for DLJ	Sewage 0°C - 40°C for DF, DFA 0°C - 32°C for DFJ	
Liquid Handled	Maximum solids size 40DS : 3 mm, 50DS : 5mm, 65DS : 6mm, 80DS : 7 mm	40DVS : 25 mm, 50DVS : 32 mm, 65(B) : 45 mm	500L : 35 mm, 560L : 40 mm, 800L : 100 mm, 100DL : 46 mm, 100DL : 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	0.4 1.5 kW = 4 m; 2.2 3.7 kW = 8 m	0.4 1.5 kW = 4 m; 2.2 3.7 kW = 8 m	8 m	8 m	
Minimum Submergence	Refer to water level (L_WL) in Dimensions	Refer to water level (L_WL) in Dimensions	Refer to water level (L_WL) in Dimensions	Refer to water level (L_WL) in Dimensions	
Synchronous speed	3000 min ⁻¹	3000 min ⁻¹	1500 min ⁻¹	1500 min ⁻¹	
Mechanical Seal	Double Mechanical Seal	Double Mechanical Seal	Double Mechanical Seal	Double Mechanical Seal	
Construction	Semi-open	Semi-vortex	Semi-open, non-dog	Semi-open, non-dog	
Impeller	Prelubricated bearing	Prelubricated bearing	Prelubricated bearing	Prelubricated bearing	
Bearing	Cast Iron	Cast Iron	Cast Iron	Cast Iron	
Casing	Cast Iron	Cast Iron	Cast Iron	Cast Iron	
Impeller	Cast Iron	Cast Iron	Cast Iron	Cast Iron	
Shaft	403 Stainless Steel	403 Stainless Steel	403 Stainless Steel	403 Stainless Steel	
Mechanical	Impeller side	Silicon carbide vs Silicon carbide	Silicon carbide vs Silicon carbide	Silicon carbide vs Silicon carbide	
Material	Motor side	Ceramic vs Carbon	Ceramic vs Carbon	Ceramic vs Carbon	
Seal	Packing	NBR	NBR	NBR	
					Motor
Type	2 pole, air-filled waterlight		4 pole, air-filled waterlight		
Insulation	Class F		Class F		
Protection	Built in overload protector (up to 7.5 kW); Built in temperature detector protection (11-22 kW)				
			Accessories		
Standard	Special Companion flange cast iron with bolts: 40-50 DSS1.5, Submersible cable: 0.4 - 1.5 kW = 6 m; 2.2 - 3.7 kW = 10m, Float switch for DSA, DLS, DVA, DVJ, DFA, DFJ				
Optional	Quick discharge connector		Quick discharge connector		

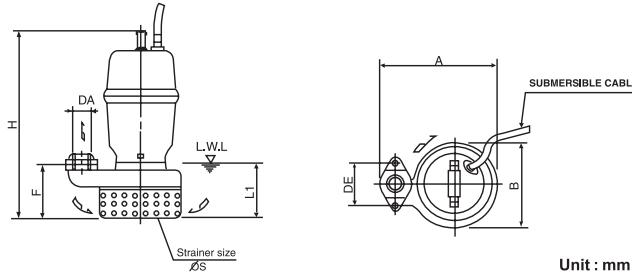
MODEL DS

■ SELECTION CHARTS

50 Hz (Synchronous speed 3000 min⁻¹)

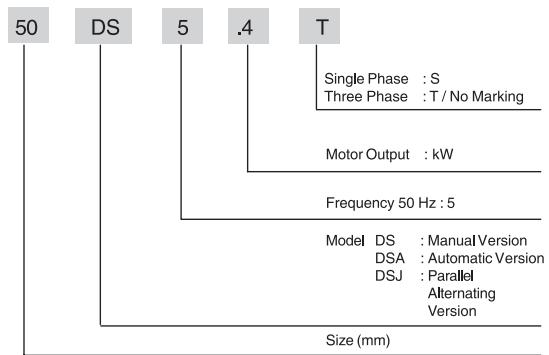


■ Manual type

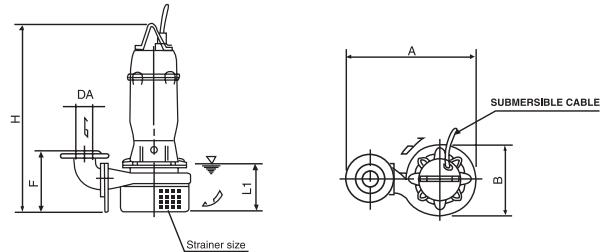


Size Ø	Model	Out Put kW	Phase	Pump and Motor							Weight (Mass) kg
				A	B	F	H	DE	S	L1	
40	40DS5.25S	0.25	Single	219	156	80	358	80	7	85	12
	40DS5.25	0.25	Three	219	156	80	358	80	7	85	12
50	50DS5.4S	0.4	Single	260	186	99	433	96	8	110	17
	50DS5.4	0.4	Three	260	186	99	396	96	8	110	16
	50DS5.75	0.75	Three	260	186	99	396	96	8	110	17
	50DS5.1.5	1.5	Three	266	200	115	450	96	10	120	25
	50DS53.7	3.7	Three	433	245	198	619	10	160	61	

■ MODEL CODE

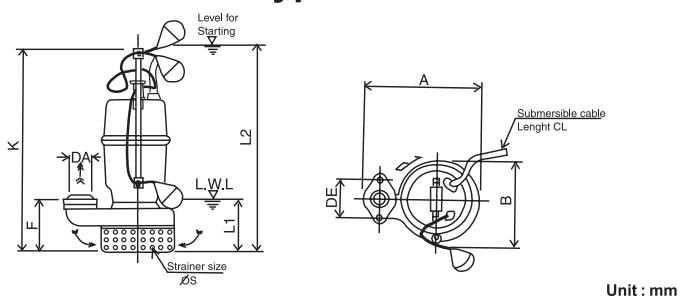


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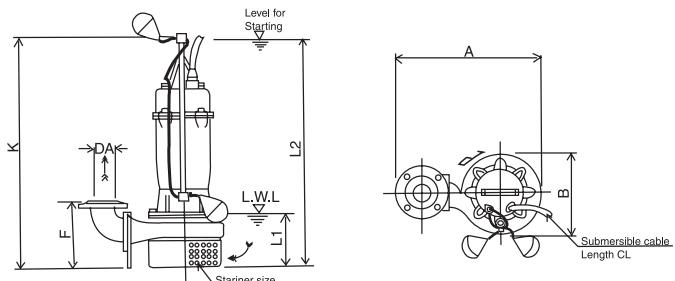


Size Ø	Model	Out Put kW	Phase	Pump and Motor							Weight (Mass) kg
				A	B	F	H	DE	S	L1	
50	50DS5.2	2.2	Three	433	245	198	619	10	160	55	55
	50DS53.7	3.7	Three	433	245	198	619	10	160	61	
65	65DS51.5	1.5	Three	407	210	197	503	10	120	35	35
	80DS52.2	2.2	Three	503	268	215	625	10	160	59	
80	80DS53.7	3.7	Three	503	268	215	625	10	160	64	

■ Automatic type

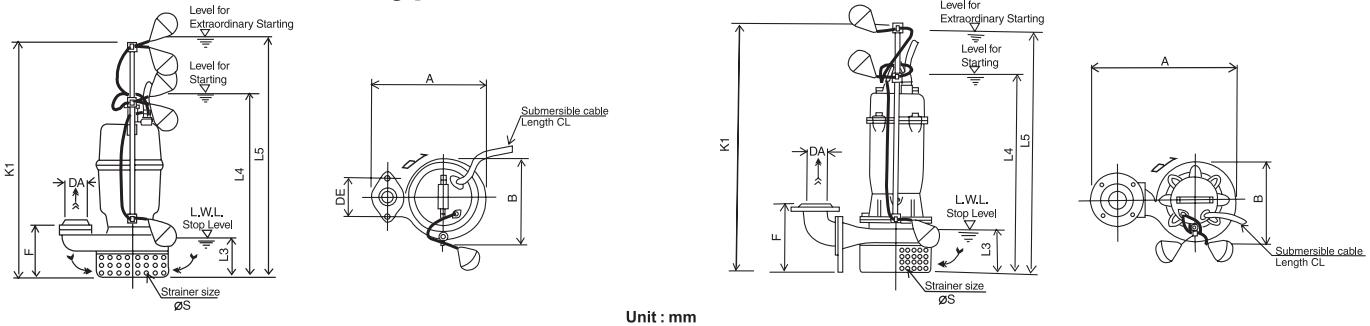


Size Ø	Model	Out Put kW	Phase	Pump and Motor							Weight (Mass) kg	
				A	B	F	DE	S	K	L1		
40	40DSA5.25S	0.25	Single	219	185	80	80	7	530	150	490	13
	40DSA5.25	0.25	Three	219	185	80	80	7	530	150	490	13
50	50DSA5.4S	0.4	Single	260	200	99	96	8	530	150	490	18
	50DSA5.4	0.4	Three	260	200	99	96	8	530	150	490	17
	50DSA5.75	0.75	Three	260	200	99	96	8	530	150	490	18
	50DSA51.5	1.5	Three	266	207	115	96	10	530	150	490	26
	50DSA53.7	3.7	Three	433	248	198	10	800	270	760	61	



Size Ø	Model	Out Put kW	Phase	Pump and Motor							Weight (Mass) kg
				A	B	F	S	K	L1	L2	
50	50DSA52.2	2.2	Three	433	248	198	10	800	270	760	61
	50DSA53.7	3.7	Three	433	248	198	10	800	270	760	67
65	65DSA51.5	1.5	Three	407	210	197	10	530	150	490	36
	80DSA52.2	2.2	Three	503	268	215	10	800	270	760	65
80	80DSA53.7	3.7	Three	503	268	215	10	800	270	760	70

■ Parallel Alternate type



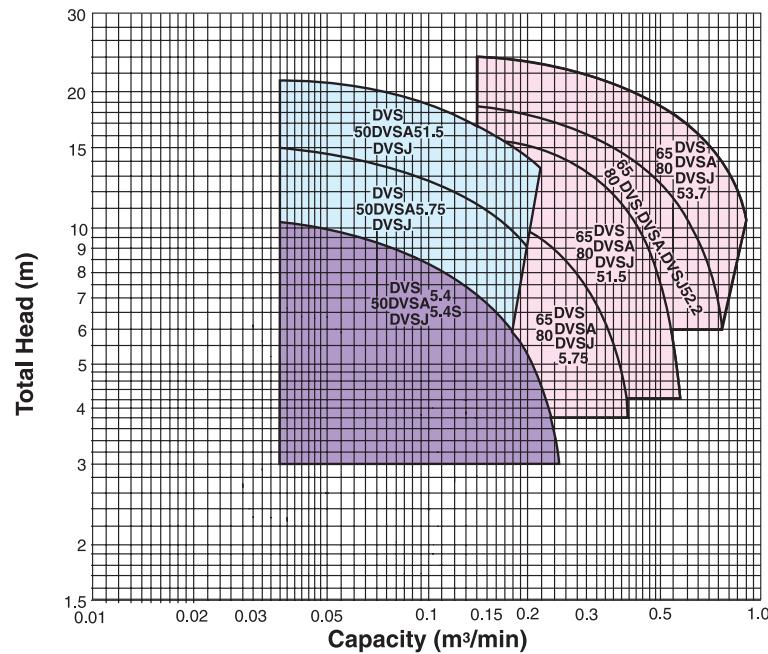
Size Ø	Model	Out Put kW	Phase	Pump and Motor							Weight (Mass) kg	Unit : mm	
				A	B	F	DE	S	K1	L3	L4		
40	40DSJ5.25S	0.25	Single	219	185	80	80	7	640	120	410	14	
	40DSJ5.25	0.25	Three	219	185	80	80	7	640	120	410	14	
50	50DSJ5.4S	0.4	Single	260	200	99	96	8	640	120	410	18	
	50DSJ5.4	0.4	Three	260	200	99	96	8	640	120	410	17	
	50DSJ5.75	0.75		260	200	99	96	8	640	120	410	18	
	50DSJ51.5	1.5		268	207	115	96	10	640	120	410	27	

Size Ø	Model	Out Put kW	Phase	Pump and Motor							Weight (Mass) kg	Unit : mm
				A	B	F	S	K1	L3	L4		
50	50DSJ52.2	2.2	Three	433	248	198	10	910	240	680	870	62
	50DSJ53.7	3.7	Three	433	248	198	10	910	240	680	870	67
65	65DSJ51.5	1.5	Three	407	210	197	10	640	120	410	600	36
	80DSJ52.2	2.2	Three	503	268	215	10	910	240	680	870	65
80	80DSJ53.7	3.7		503	268	215	10	910	240	680	870	70

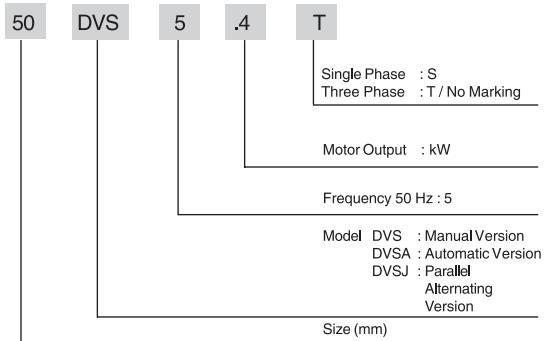
MODEL DVS

■ SELECTION CHARTS

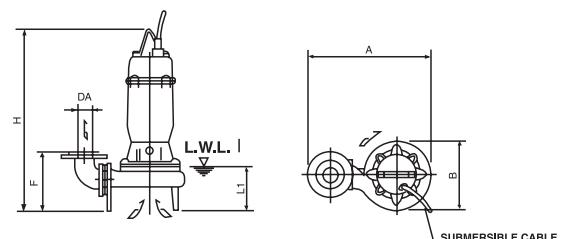
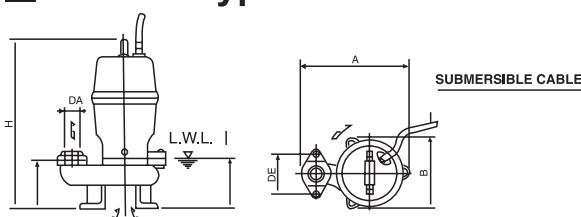
50 Hz (Synchronous speed 3000 min⁻¹)



■ MODEL CODE



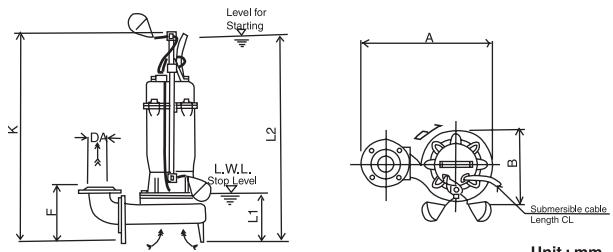
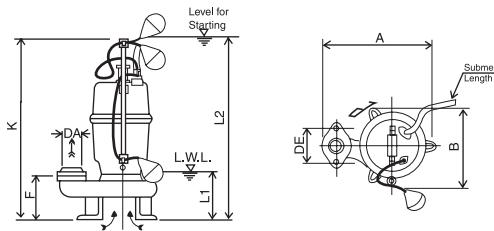
■ Manual type



Size Ø	Model	Out Put kW	Phase	Pump and Motor							Weight (Mass) kg	Unit : mm
				A	B	F	H	DE	L1			
50	50DVS5.4S	0.4	Single	239	160	82	435	96	105	18		
	50DVS5.4	0.4	Three	239	160	82	398	96	105	17		
	50DVS5.75	0.75	Three	249	171	82	400	96	105	19		
	50DVS51.5	1.5	Three	249	171	82	440	96	105	19		

Size Ø	Model	Out Put kW	Phase	Pump and Motor							Weight (Mass) kg	Unit : mm
				A	B	F	H	L1				
65	65DVS5.75	0.75	Three	396	195	178	503	125	25			
	65DVS51.5	1.5		396	195	178	521	125	24			
	65DVS52.2	2.2		427	227	201	643	155	50			
	65DVS53.7	3.7		427	227	201	643	155	59			
80	80DVS5.75	0.75	Three	411	195	183	503	125	26			
	80DVS51.5	1.5		411	195	183	521	125	35			
	80DVS52.2	2.2		442	227	206	643	155	51			
	80DVS53.7	3.7		442	227	206	643	155	60			

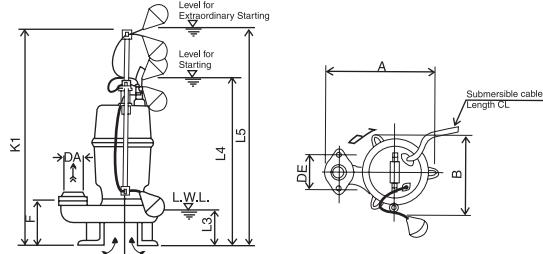
■ Automatic type



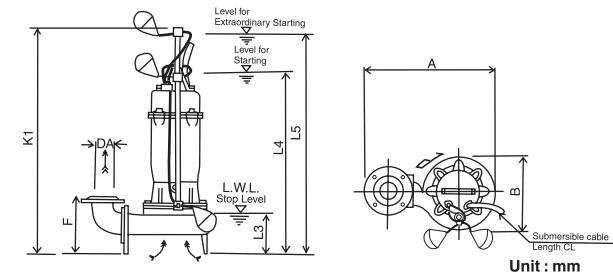
Size Ø	Model	Out Put kW	Phase	Pump and Motor						Weight (Mass) kg	
				Pump and Motor							
				A	B	F	DE	K	L1		
50	50DVA5.4S	0.4	Single	239	183	82	96	530	150	490	20
	50DVA5.4	0.4	Three	239	183	82	96	530	150	490	18
	50DVA5.75	0.75	Three	249	197	82	96	530	150	490	20
	50DVA51.5	1.5	Three	249	201	82	96	530	150	490	30

Size Ø	Model	Out Put kW	Phase	Pump and Motor								Weight (Mass) kg
				A	B	F	H	J	K	L1	L2	
65	65DVA5.75	0.75	Three	396	206	178	540	145	530	150	490	26
	65DVA51.5	1.5		396	210	178	572	145	530	150	490	35
	65DVA52.2	2.2		427	237	201	736	160	770	250	730	51
	65DVA53.7	3.7		427	237	201	796	160	770	250	730	60
80	80DVA5.75	0.75	Three	411	206	183	540	145	530	150	490	27
	80DVA51.5	1.5		411	210	183	572	145	530	150	490	36
	80DVA52.2	2.2		442	237	206	736	160	770	250	730	52
	80DVA53.7	3.7		442	237	206	736	160	770	250	730	61

■ Parallel Alternate type



Size Ø	Model	Out Put kW	Phase	Pump and Motor						Weight (Mass) kg	
				Pump and Motor							
				A	B	F	DE	K1	L3		
50	50DVSJ5.4S	0.4	Single	239	183	82	96	530	120	410	600
	50DVSJ5.4	0.4	Three	239	183	82	96	530	120	410	600
	50DVSJ5.75	0.75	Three	249	197	82	96	530	120	410	600
	50DVSJ51.5	1.5	Three	249	201	82	96	530	120	410	30

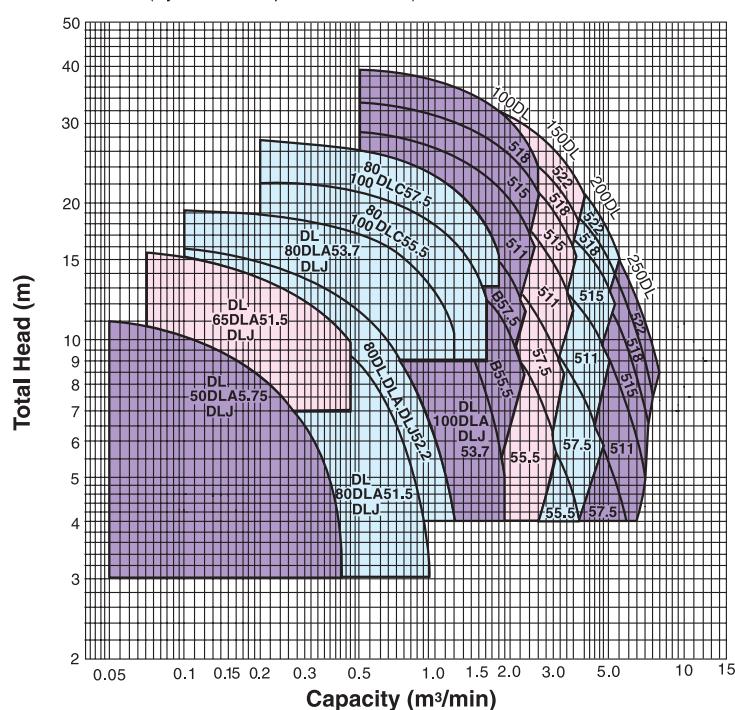


Size Ø	Model	Out Put kW	Phase	Pump and Motor						Weight (Mass) kg
				A	B	F	K1	L3	L4	
65	65DVSJ5.75	0.75	Three	396	206	178	640	120	410	600
	65DVSJ51.5	1.5		396	210	178	640	120	410	600
	65DVSJ52.2	2.2		427	237	201	880	220	650	840
	65DVSJ53.7	3.7		427	237	201	880	220	650	840
80	80DVSJ5.75	0.75	Three	411	206	183	640	120	410	600
	80DVSJ51.5	1.5		411	210	183	640	120	410	600
	80DVSJ52.2	2.2		442	237	206	880	220	650	840
	80DVSJ53.7	3.7		442	237	206	880	220	650	840

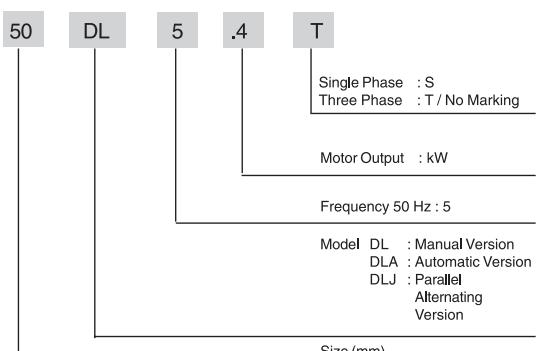
MODEL DL

■ SELECTION CHARTS

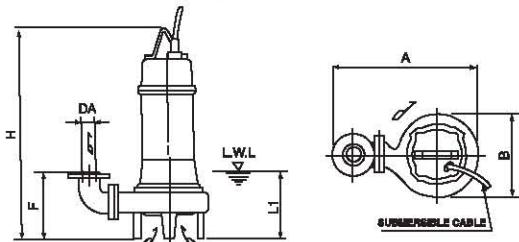
50 Hz (Synchronous speed 1500 min⁻¹)



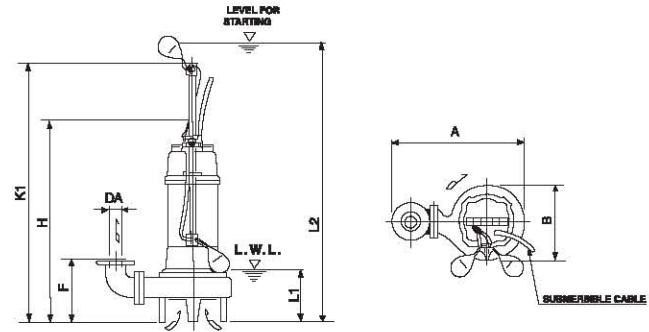
■ MODEL CODE



■ Manual type



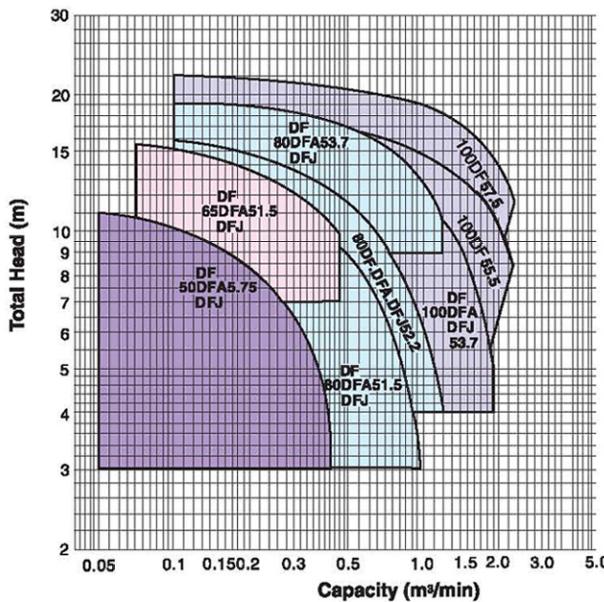
■ Automatic type



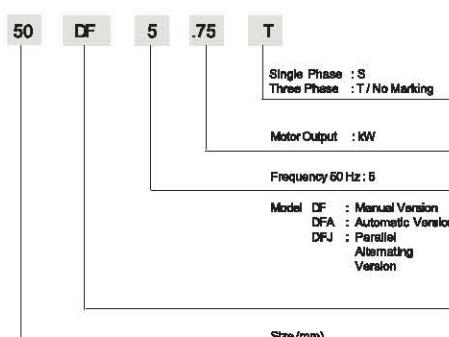
Size \varnothing	Model	Output kW	Pump and Motor					Weight (Mass) kg
			A	B	F	H	L1	
50	50DL6.75	0.75	411	239	175	510	120	34
65	65DL51.5	1.5	497	291	200	576	140	52
80	80DL51.5	1.5	524	292	220	597	165	55
	80DL52.2	2.2	542	308	220	654	165	67
	80DL53.7	3.7	567	328	220	687	165	75
	100DL53.7	3.7	614	335	250	705	185	79
	100DLB55.5	5.5	646	369	323	767	205	123
	100DLC65.5	5.5	660	379	322	752	205	134
100	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
	150DL55.5	5.5	750	398	381	798	245	146
	150DL57.5	7.5	780	418	377	783	245	158
150	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	984	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	998	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

MODEL DF (With Cutter)

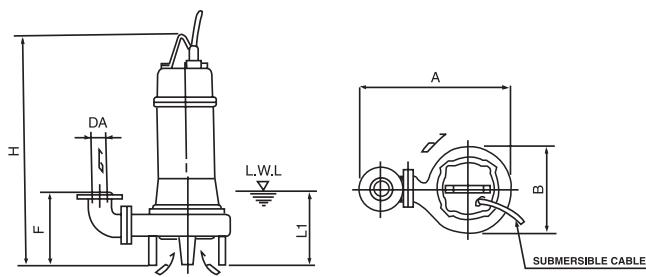
■ SELECTION CHARTS



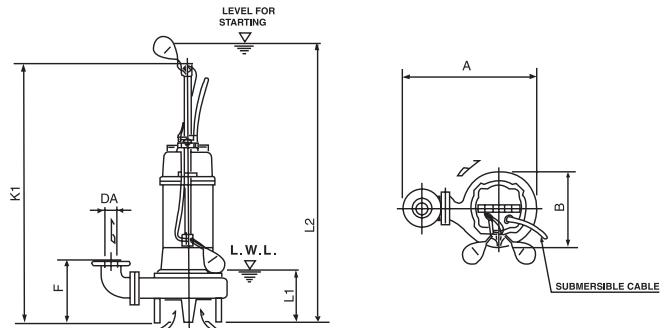
■ MODEL CODE



■ Manual type



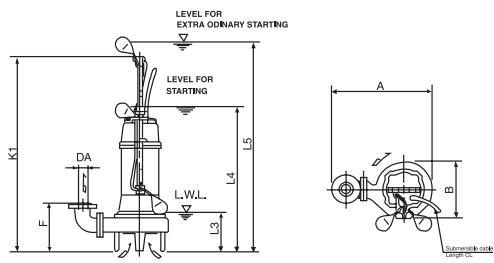
■ Automatic type



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

Size \varnothing	Model	Output kW	Pump and Motor						Weight (Mass) kg
			A	B	F	K	L1	L2	
50	50DFA5.75	0.75	411	239	175	630	250	650	36
65	65DFA51.5	1.5	497	291	200	840	320	860	55
80	80DFA51.5	1.5	524	292	220	840	320	860	58
	80DFA52.2	2.2	542	308	220	840	320	860	70
	80DFA53.7	3.7	567	328	220	840	320	860	78
100	100DFA53.7	3.7	614	335	250	840	320	860	85

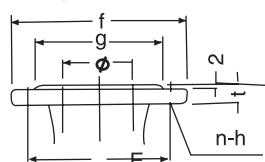
■ Parallel Alternate type



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

■ Flang Dimension type

Flange



Unit: mm

\varnothing	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

OPTIONS

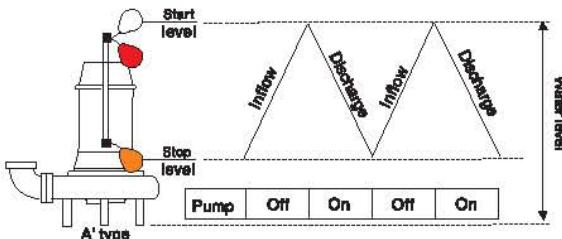
AUTOMATIC OPERATION (A', J' TYPE)

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.

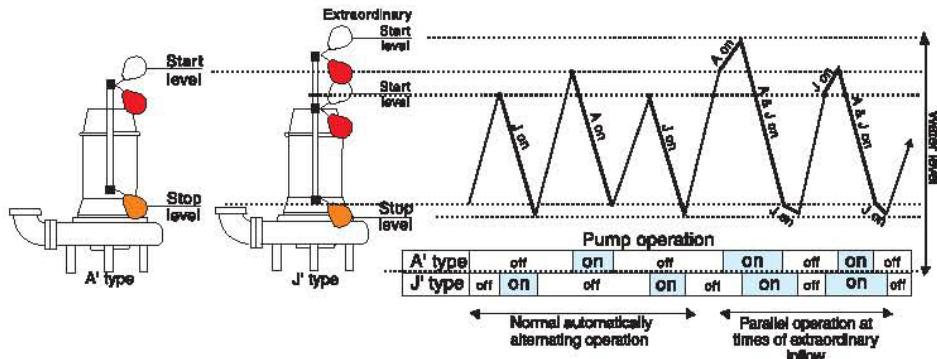
The pump automatically starts when the water level in the sump reaches the "start level", and stops when the pump has lowered the water level to the "stop level".



DUPLEX PUMP INSTALLATION (A' & J' TYPE)

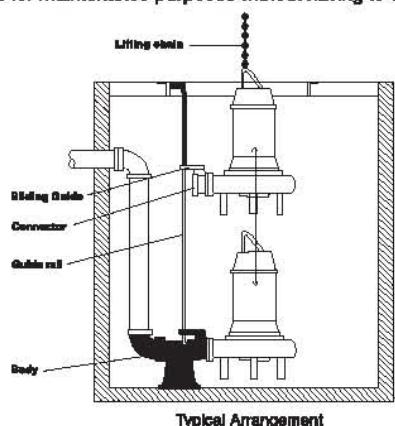
Two pumps, one A' type and one J' type are installed in the sump. In normal operating conditions, operation alternates between the two pumps.

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.



FLOAT SWITCH

FLOAT SWITCH	
Model	CDL024080 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

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