



**EBARA**

MCF001LA

# D'Series SUBMERSIBLE PUMP

Model **DS/DVS/DML/DL**

**50Hz**



**Sump Pump  
TYPE DS**

**Effluent Pump  
TYPE DVS**

**Sewage Pump  
TYPE DML**

**Sewage Pump  
TYPE DL**

**新法機械有限公司**

**NEW WAY ENGINEERING CO., LTD.**

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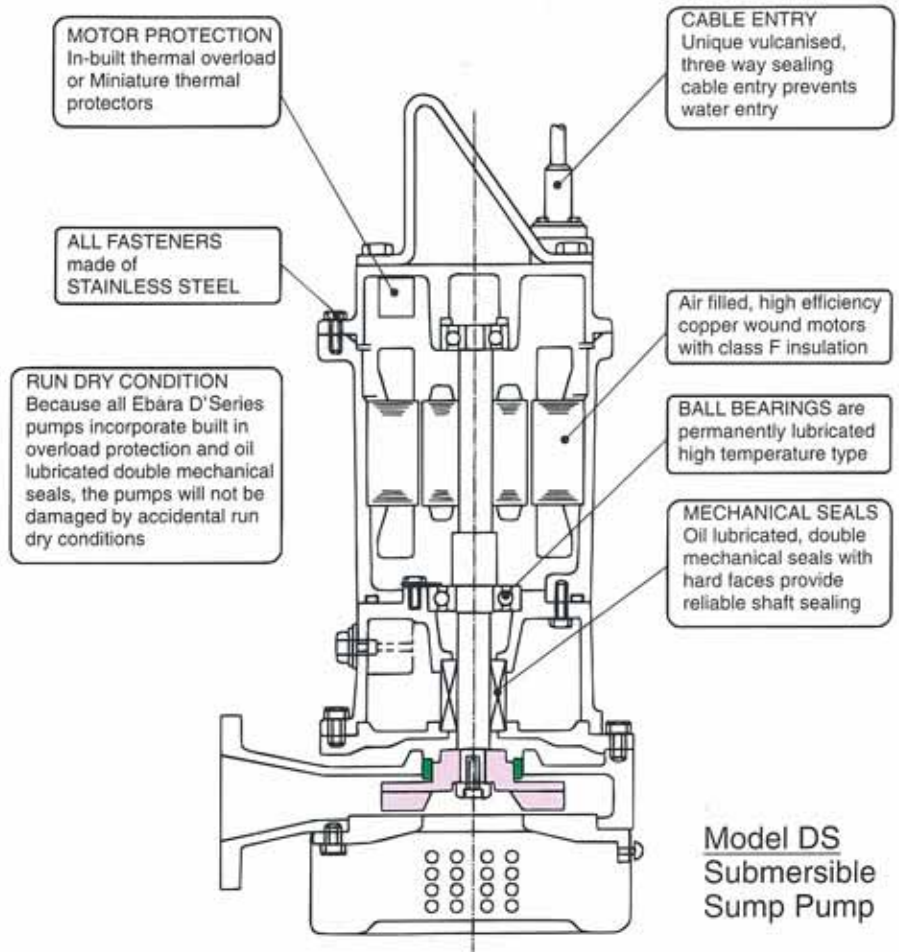
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# EBARA D'Series SUBMERSIBLE PUMP - *Quality that shows....*

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

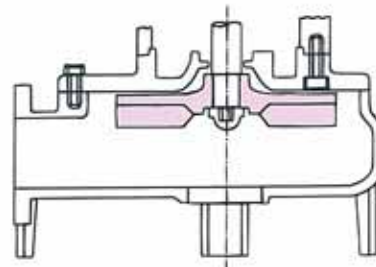
## Model DVS

### ■ 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



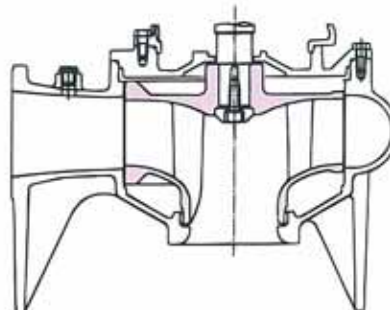
## Model DML

### ■ FEATURES

- Non-Clog Single channel Impeller 3" passage.
- Range of Models up to 150mm discharge.
- Dry pit is available as optional.

### ■ APPLICATIONS

- Sewage
- Waste water



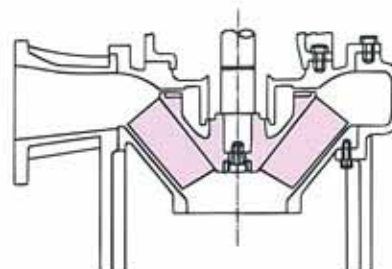
## Model DL

### ■ FEATURES

- Non-Clog Type Impellers prevents clogging by fibrous matter.
- Range of Models up to 300mm discharge size and 45kW available.

### ■ APPLICATIONS

- Sewage
- Waste water



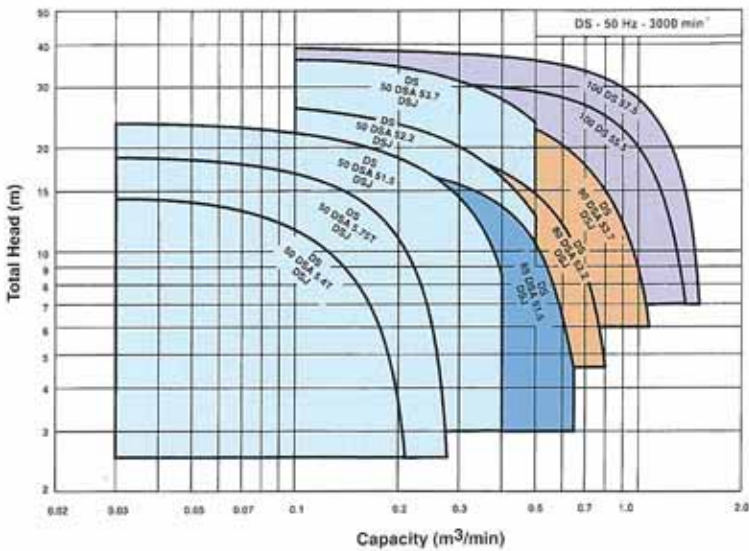
# Model DS

## SPECIFICATIONS



		Pump	
Liquid Handled	Type of liquid	Sump	
	Temperature	0°C–40°C for DS, DSA; 0°C–32°C for DSJ	
	Max solids size	50:5mm, 65:6mm, 80:7mm, 100:8mm	
Maximum Submergence		4m (0.4– 1.5 kW) ; 8m (2.2 –7.5 kW)	
Minimum Submergence		Refer to water level (L.W.L.) in Dimensions. It is possible to operate at low water level for 30min.	
Synchronous Speed		3000min <sup>-1</sup>	
Construction	Mechanical Seal	Double mechanical seal	
	Impeller	Semi-open	
	Bearing	Prelubricated bearing	
Material	Casing	Cast iron	
	Impeller	Cast iron	
	Shaft	403 Stainless Steel	
	Mechanical Seal	Impeller side	Silicon carbide
	Seal	Motor side	Ceramic / Carbon
	Packing		NBR
		Motor	
Type	2 pole, air-filled watertight		
Insulation	Class F		
Protection	Built in overload protector		
		Accessories	
Standard	Submersible cable: 0.4–1.5kW x 6m, 2.2–7.5kW x 10m, Float switch (for DSA, DSJ)		
Optional	Quick discharge connector, Float switch (for DS only)		

## PERFORMANCE CHART



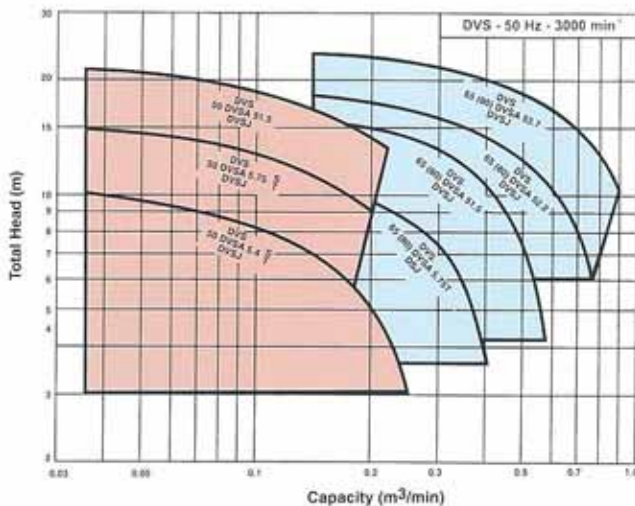
# Model DVS

## SPECIFICATIONS

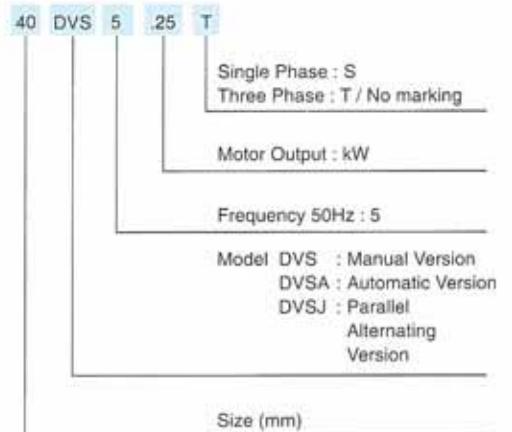


Pump			
Liquid Handled	Type of liquid	River water, Effluent	
	Temperature	0°C-40°C for DVS, DVSA; 0°C-32°C for DVSJ	
	Pump size: Max solids size	50 : 32mm, 65 (80) : 45mm or 56mm	
Maximum Submergence		4m (0.4-1.5kW) ; 8m (2.2-3.7kW)	
Minimum Submergence		Refer to water level (L.W.L.) in Dimensions. It is possible to operate at low water level for 30min.	
Synchronous Speed		3000min <sup>-1</sup>	
Construction	Mechanical Seal	Double mechanical seal	
	Impeller	Semi-Vortex	
	Bearing	Prelubricated bearing	
Material	Casing	Cast iron	
	Impeller	Cast iron	
	Shaft	403 Stainless Steel	
	Mechanical Seal	Impeller side	Silicon carbide
		Motor side	Ceramic / Carbon
Packing	NBR		
Motor			
Type	2 pole, air-filled watertight		
Insulation	Class F		
Protection	Built in thermal protector		
Accessories			
Standard	Submersible cable: 0.4-1.5kW x 6m, 2.2-3.7kW x 10m Float switch (for DVSA, DVSJ)		
Optional	Quick discharge connector, Float switch (for DVS only)		

## PERFORMANCE CHART

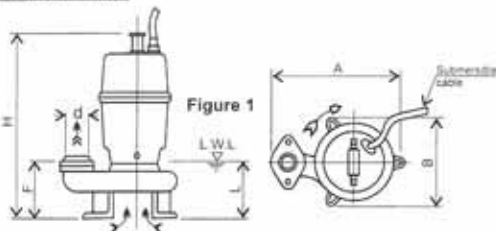


## MODEL CODE

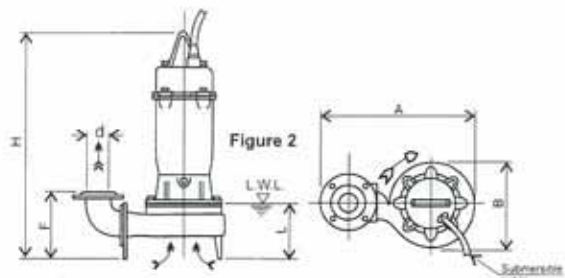


## DIMENSIONS

### Manual type



Unit: mm



Size d	Model	Output kW	Phase	Pump and Motor					L.W.L. L	wt kg
				d	A	B	F	H		
50	50DVS5.4S	0.4	Single	PT2	239	160	82	435	105	18
	50DVS5.4T	0.4	3Ø	PT2	239	160	82	398	105	17
	50DVS5.75S	0.75	Single	PT2	249	171	82	497	105	26
	50DVS5.75T	0.75	3Ø	PT2	249	171	82	397	105	19
	50DVS51.5	1.5	3Ø	PT2	249	171	82	439	105	27
	65	65DVS5.75T	0.75	3Ø	-	396	195	178	467	125
65DVS51.5		1.5	3Ø	-	396	195	178	519	125	34

Size d	Model	Output kW	Phase	Pump and Motor				L.W.L. L	wt kg
				A	B	F	H		
65	65DVS52.2	2.2	3Ø	427	227	201	643	155	50
	65DVS53.7	3.7	3Ø	427	227	201	643	155	59
	80DVS5.75T	0.75	3Ø	411	195	183	467	125	26
80	80DVS51.5	1.5	3Ø	411	195	183	519	125	35
	80DVS52.2	2.2	3Ø	442	227	206	643	155	51
	80DVS53.7	3.7	3Ø	442	227	206	643	155	60

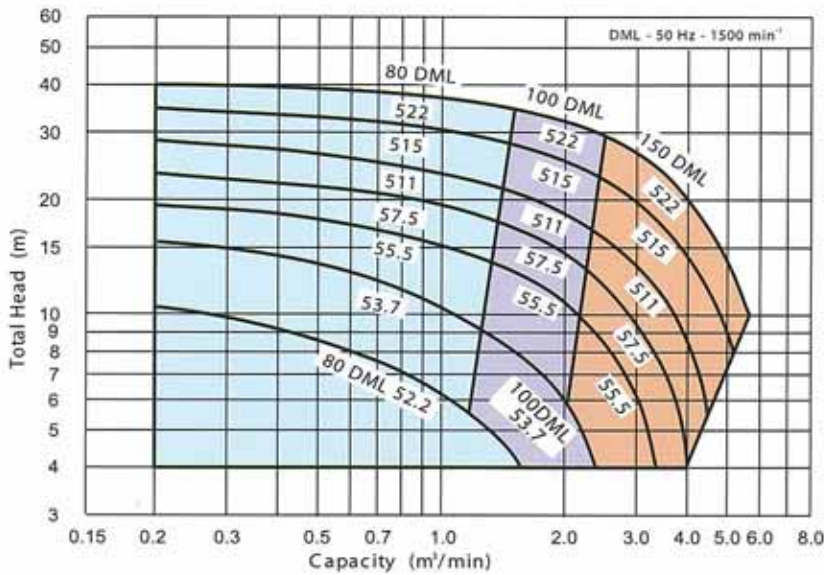
# Model DML

## SPECIFICATIONS

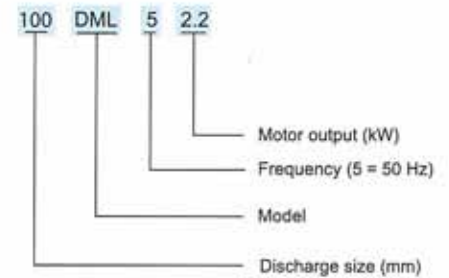


		Pump	
Liquid Handled	Type of liquid	Sewage, Wastewater	
	Temperature	0°C-40°C	
	Max solids size	76mm	
Maximum Submergence		8m	
Minimum Submergence		Refer to water level (L.W.L.) in Dimensions. It is possible to operate at low water level for 30min.	
Synchronous Speed		1500min <sup>-1</sup>	
Construction	Mechanical Seal	Double mechanical seal	
	Impeller	Single channel, non-clog	
	Bearing	Prelubricated bearing	
Material	Casing	Cast iron	
	Impeller	Cast iron	
	Shaft	403 Stainless Steel	
	Mechanical Seal	Impeller side Motor side	Silicon carbide Ceramic / Carbon
	Packing	NBR	
		Motor	
Type	4 pole, air-filled watertight		
Insulation	Class F		
Protection	Built in overload protector (2.2kW); Built-in temperature detector protection (3.7-22kW)		
		Accessories	
Standard	Submersible cable (10m)		
Optional	Quick discharge connector, Dry pit type.		

## PERFORMANCE CHART

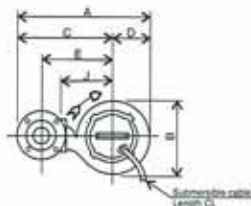
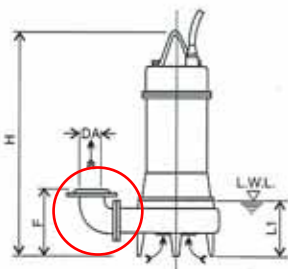


## MODEL CODE



## DIMENSIONS

### Manual type



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.

Size	Model	Output kW	A	B	C	D	E	F	H	J	L1	CL	Weight
80	80 DML 52.2	2.2	534	320	378	157	285	298	668	210	279	10 m	80 kg
	80 DML 53.7	3.7	534	320	378	157	285	298	727	210	279	10 m	87 kg
	80 DML 55.5	5.5	640	381	453	188	360	334	824	255	310	10 m	118 kg
	80 DML 57.5	7.5	640	381	453	188	360	334	824	255	310	10 m	123 kg
	80 DML 511	11	734	455	513	221	420	350	938	315	329	10 m	157 kg
	80 DML 515	15	734	455	513	221	420	350	938	315	329	10 m	163 kg
	80 DML 522	22	777	497	533	245	440	363	1021	335	332	10 m	223 kg
100	100 DML 52.2	2.2	534	320	378	157	285	298	668	210	279	10 m	80 kg
	100 DML 53.7	3.7	577	320	420	157	315	313	727	210	279	10 m	89 kg
	100 DML 55.5	5.5	653	381	465	188	360	334	824	255	310	10 m	121 kg
	100 DML 57.5	7.5	653	381	465	188	360	334	824	255	310	10 m	125 kg
	100 DML 511	11	746	455	525	221	420	350	938	315	329	10 m	160 kg
	100 DML 515	15	746	455	525	221	420	350	938	315	329	10 m	166 kg
	100 DML 522	22	790	497	545	245	440	363	1021	335	332	10 m	226 kg
150	150 DML 55.5	5.5	713	381	525	188	385	368	824	255	310	10 m	127 kg
	150 DML 57.5	7.5	713	381	525	188	385	368	824	255	310	10 m	132 kg
	150 DML 511	11	806	455	585	221	445	385	938	315	329	10 m	166 kg
	150 DML 515	15	806	455	585	221	445	385	938	315	329	10 m	172 kg
150 DML 522	22	850	497	605	245	485	388	1021	335	332	10 m	232 kg	

Units: mm unless otherwise specified

# Model DL

DL

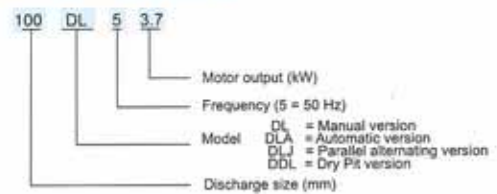
DL 30/37/45 kW

## SPECIFICATIONS

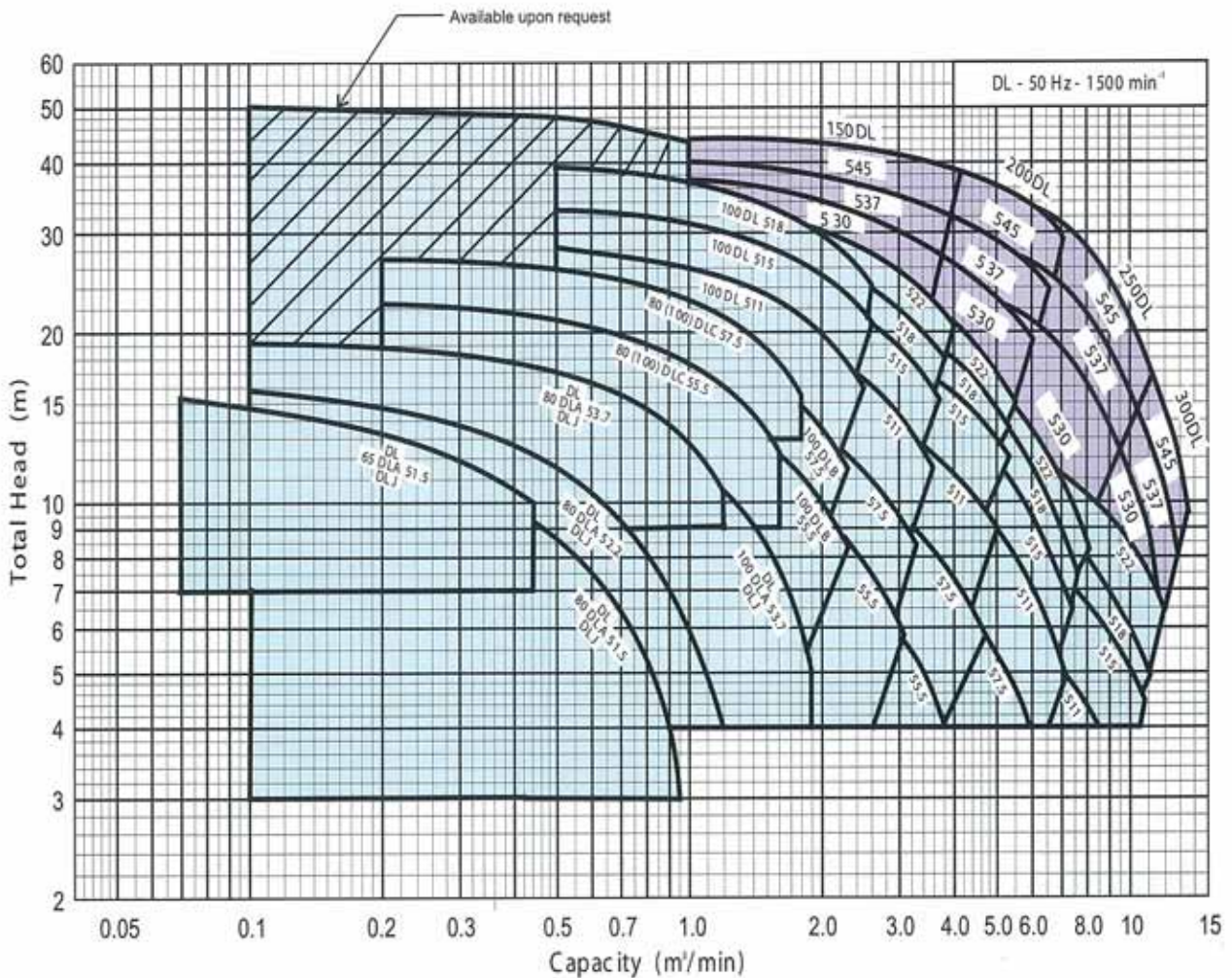


		Standard	Optional
Scope	Discharge	85 - 300 mm	
	Motor Power	1.5 - 45 kW (3 phase)	
	Performance	Capacity : 0.07 - 12 m <sup>3</sup> /min Head : 3 - 52 m	
Liquid	Type	Sewage	
	Maximum Temperature	40 °C (Manual and A Type) 32 °C (J Type)	
	Submergence	8 m (Max)	
	Construction	Impeller : Non-clog type Mechanical Seal : Oil lubricated, double mechanical seal (single spring 3.7 kW) (tandem spring 5.5 to 45kW)	
Materials	Casing	Cast Iron	S/S Upon request
	Impeller	Cast Iron	
	Suction Cover	Cast Iron	
	Shaft	403 Stainless Steel	
	Motor Frame	Cast Iron	
	Fasteners	304 Stainless Steel	
	Mechanical Seal	Upper Faces : Carbon / Ceramic Lower Faces : Silicon Carbide / Silicon Carbide Lubricating Oil: Turbine Oil VG32 (SAE 10W/20W)	
	Motor	Type : Air filled dry submersible, IP68, Class F insulation Nominal speed : 4 pole - 1450 rpm	
Motor	Applicable Voltages	380/400/415 volts 3 phase 50 Hz	
	Starting Protection	DOL (up to 7.5 kW) Star-Delta (11 to 45 kW) In built overload protection (up to 7.5 kW) Miniature thermal protector (11 to 45 kW)	Leakage detector upon request
	Bearings	Pre lubricated sealed ball bearings	
	Cable Length	10m	
Accessories	Flange	Discharge elbow	
Others			Quick Discharge Connector (QDC)

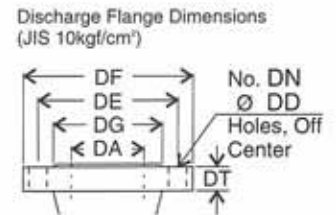
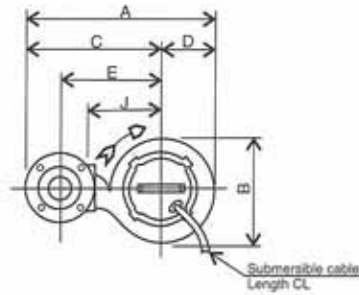
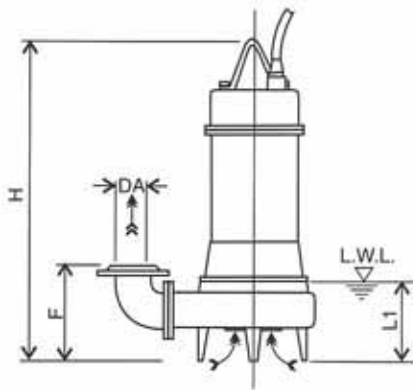
## MODEL CODE



## PERFORMANCE CHART



# Dimensions - DL (MANUAL WET PIT MODEL)



DA	DE	DF	DG	DT	DN	DD
65	150	175	116	18	4	15
80	150	185	126	18	4	15
100	175	210	151	20	8	15
150	240	280	212	22	8	19
200	290	330	262	26	12	23
250	355	400	324	30	12	25
300	400	445	368	32	16	25

- Note:
- L.W.L. (Low Water Level) is limited to 10 minutes operation at low water level.
  - is limited to 30 minutes operation with water level below top of motor.

Size DA	Model	Output kW	A	B	C	D	E	F	H	J	L1	CL	Weight
65	65 DL 51.5	1.5	497	291	353	144	265	200	576	200	140	10 m	52 kg
	80 DL 51.5	1.5	524	292	378	146	285	220	597	210	165	10 m	55 kg
80	80 DL 52.2	2.2	542	308	388	154	295	220	654	220	165	10 m	67 kg
	80 DL 53.7	3.7	567	328	403	164	310	220	687	235	165	10 m	75 kg
	80 DLC 55.5	5.5	618	379	428	190	335	307	753	260	205	10 m	134 kg
	80 DLC 57.5	7.5	648	399	448	200	355	305	751	280	205	10 m	148 kg
	100 DL 53.7	3.7	614	335	445	169	340	250	706	235	185	10 m	79 kg
	100 DLB 55.5	5.5	646	369	460	186	355	323	768	250	205	10 m	123 kg
100	100 DLC 55.5	5.5	660	379	470	190	365	322	753	260	205	10 m	134 kg
	100 DLB 57.5	7.5	673	385	480	193	375	323	760	270	205	10 m	141 kg
	100 DLC 57.5	7.5	690	399	490	200	385	320	751	280	205	10 m	148 kg
	100 DL 511	11	701	402	500	201	395	323	859	290	205	10 m	180 kg
	100 DL 515	15	741	441	520	221	415	330	954	310	205	10m	230 kg
	100 DL 518	18.5	741	441	520	221	415	330	958	310	205	10 m	285 kg
	150 DL 55.5	5.5	750	398	550	200	410	381	799	280	245	10 m	146 kg
	150 DL 57.5	7.5	780	418	570	210	430	377	784	300	245	10 m	158 kg
150	150 DL 511	11	810	438	590	220	450	377	883	320	245	10 m	199 kg
	150 DL 515	15	810	438	590	220	450	377	972	320	245	10 m	237 kg
	150 DL 518	18.5	848	476	610	238	470	381	979	340	245	10 m	300 kg
	150 DL 522	22	848	476	610	238	470	381	979	340	245	10 m	325 kg
	150 DL 530	30	912	520	650	262	510	468	1284	360	1080	10 m	350 kg
	150 DL 537	37	912	520	650	262	510	468	1404	360	1135	10 m	350 kg
	150 DL 545	45	912	520	650	262	510	468	1404	360	1135	10 m	350 kg
	200 DL 55.5	5.5	832	430	615	217	450	414	826	300	285	10 m	160 kg
200	200 DL 57.5	7.5	863	453	635	228	470	410	809	320	285	10 m	176 kg
	200 DL 511	11	863	453	635	228	470	410	908	320	285	10 m	212 kg
	200 DL 515	15	896	479	655	241	490	411	995	340	285	10 m	260 kg
	200 DL 518	18.5	932	512	675	257	510	415	1001	360	285	10 m	305 kg
	200 DL 522	22	932	512	675	257	510	415	1001	360	285	10 m	330 kg
	200 DL 530	30	937	520	675	262	510	483	1284	360	1080	10 m	350 kg
	200 DL 537	37	937	520	675	262	510	483	1404	360	1135	10m	370 kg
	200 DL 545	45	937	520	675	262	510	483	1404	360	1135	10 m	370 kg
250	250 DL 57.5	7.5	969	525	700	269	500	622	904	370	400	10 m	260 kg
	250 DL 511	11	993	541	720	273	520	634	1000	390	400	10 m	320 kg
	250 DL 515	15	1007	549	730	277	530	646	1086	400	400	10 m	380 kg
	250 DL 518	18.5	1007	549	730	277	530	646	1089	400	400	10 m	420 kg
	250 DL 522	22	1007	549	730	277	530	646	1089	400	400	10 m	440 kg
	250 DL 530	30	1125	660	790	335	590	706	1336	460	1132	10 m	458 kg
	250 DL 537	37	1125	660	790	335	590	706	1475	460	1206	10 m	522 kg
300	250 DL 545	45	1125	660	790	335	590	706	1475	460	1206	10 m	540 kg
	300 DL 511	11	1100	588	798	302	575	671	1050	420	450	10 m	365 kg
	300 DL 515	15	1100	588	798	302	575	671	1131	420	450	10 m	395 kg
	300 DL 518	18.5	1135	618	818	317	595	668	1131	440	450	10 m	440 kg
	300 DL 522	22	1135	618	818	317	595	668	1131	440	450	10 m	465 kg
	300 DL 530	30	1172	660	838	335	615	726	1336	460	1132	10 m	458 kg
	300 DL 537	37	1172	660	838	335	615	726	1475	460	1206	10 m	522 kg
300 DL 545	45	1172	660	838	335	615	726	1475	460	1206	10 m	540 kg	

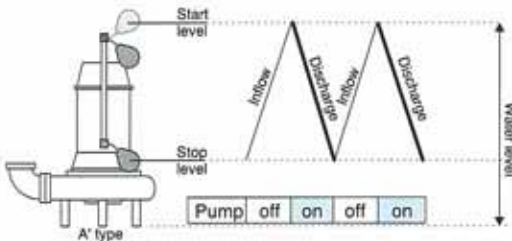
Units: mm unless otherwise specified

## 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.

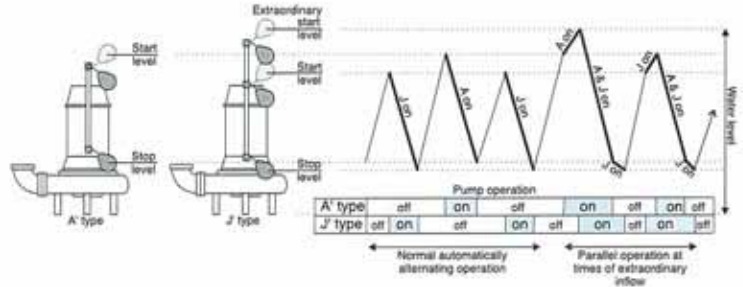
### SINGLE PUMP INSTALLATION (A' TYPE)

A single automatic (A' type) pump is installed in the sump. The pump automatically start when the water level in the sump reaches the "start level", and stop 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.



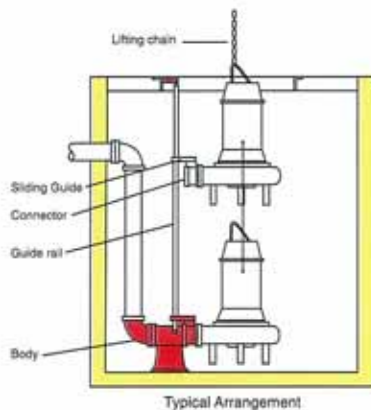
## FLOAT SWITCH

FLOAT SWITCH	
Model	EF-4
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 12VA DC 12VA
Lead Wire	2x0.2mm <sup>2</sup> x6m



## 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



EBARA Pump with QDC - Typical Arrangement

Note: All specifications subject to change without prior notice.



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