



EBARA

SUBMERSIBLE ELECTRIC PUMPS FOR WASTEWATER

50 Hz

DS



DVS



DL



DML/DMLV



SUBMERSIBLE ELECTRIC PUMPS FOR WASTEWATER

MOTOR PROTECTION
In-built thermal overload or
Miniature thermal protectors

CABLE ENTRY
Unique vulcanised, three way
sealing cable entry prevents water
entry

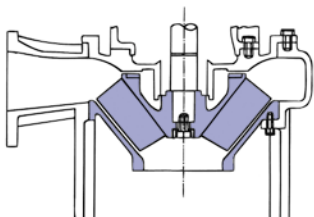
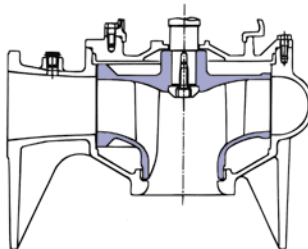
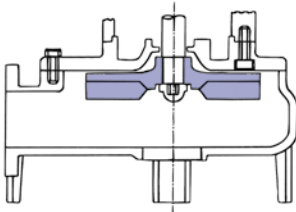
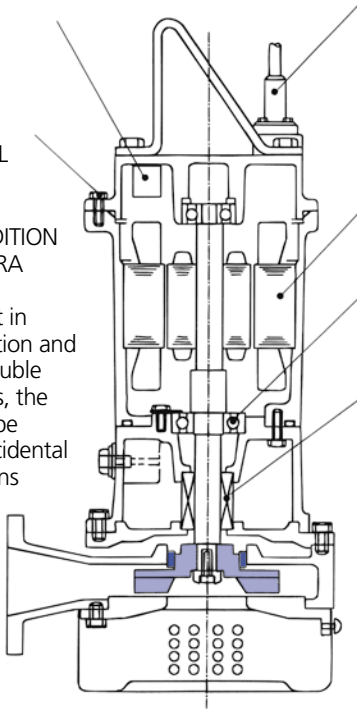
ALL FASTENERS
made of
STAINLESS STEEL

RUN DRY CONDITION
because all EBARA
D'Series pumps
incorporate built in
overload protection and
oil lubricated double
mechanical seals, the
pumps will not be
damaged by accidental
run dry conditions

Air filled, high
efficiency copper
wound motors with
class F insulation

BALL BEARINGS are
permanently lubricated
high Temperatura type

MECHANICAL SEALS
Oil lubricated, double
mechanical seals
with hard faces
provide reliable shaft
sealing



A comprehensive range of reliable, high quality submersible pumps of cast iron construction for sump, effluent, waste water and sewage.

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 DL

Features:

- Non-Clog Type Impellers prevents clogging by fibrous matter
- Range of models from 65 mm up to 300 mm discharge size and 45 kW available

Applications:

- Sewage
- Waster water

Model DML -DMLV

Features:

Single-channel impeller (DML) or vortex impeller (DMLV)

Applications:

- Evacuation of civil and industrial waste waters
- Treating liquid manure
- Draining sub-layer zones
- Generally moving foul waste liquids also containing solid substances and/or suspended filamentary substances
- Emptying seepage water
- Moving sewage (sanitary services)
- Emptying cesspits

SUBMERSIBLE SUMP PUMP

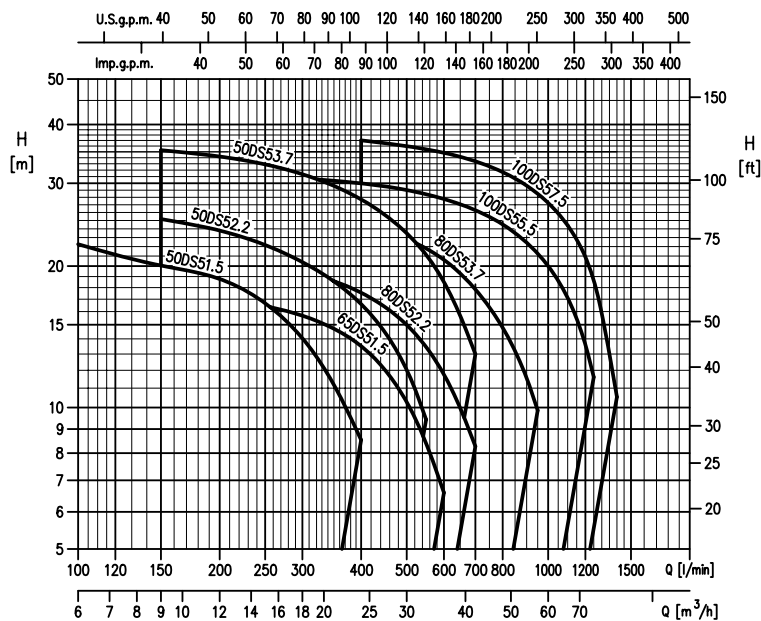
SPECIFICATIONS



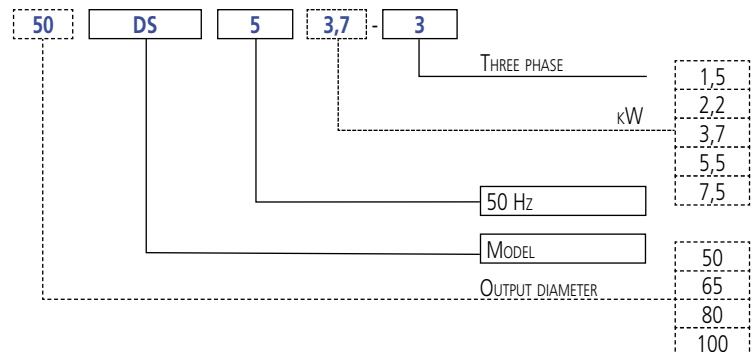
PUMP			
Liquid Handled	Type of liquid		Treated sewage
	Temperature		0-40°C
	Pump size: Max solid diameter		50 DS: 5 mm, 65DS: 6 mm, 80DS: 7 mm, 100DS: 8 mm
	Maximum Submersible depth of the pump		4 m (0.4-1.5 kW); 8 m (2.2-7.5 kW)
Synchronous Speed		3000 min ⁻¹	
Construction	Mechanical Seal		Double mechanical seal
	Impeller		Semi-open
	Bearing		Pre-lubricated bearing
Material	Casing		Cast iron
	Impeller		Cast iron
	Shaft		403 Stainless Steel
	Mechanical Seal	Impeller side	Silicon carbide
		Motor side	Ceramic / Carbon
MOTOR			
Type	Air-filled watertight		
N° of poles	2 poles		
Insulation Class	Class F		
Protection	Built in overload protector - Autocut		
ACCESSORIES			
Option	Quick discharge connector (QDC)		

The pump is equipped with a discharge elbow

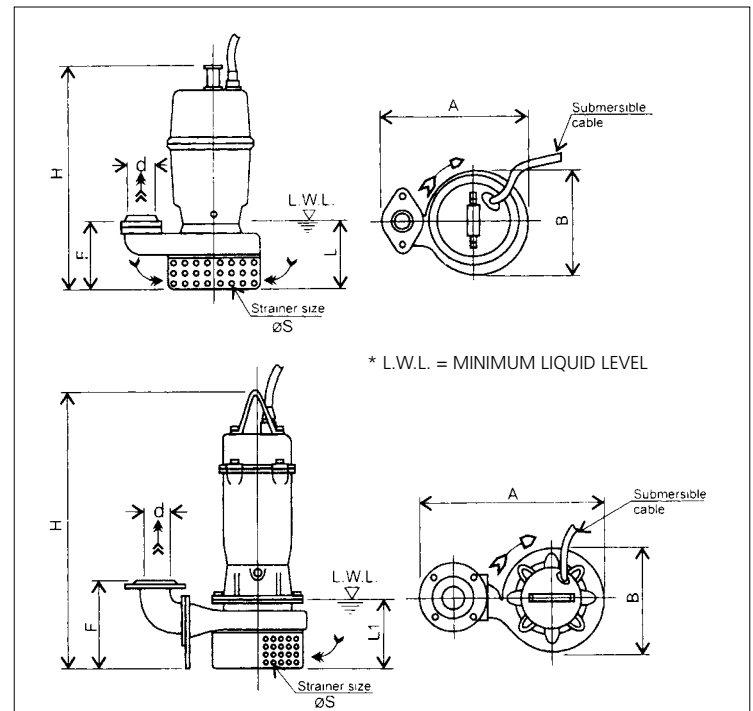
PERFORMANCE CHART



PUMP IDENTIFICATION CODE



DIMENSIONS



DIMENSIONS TABLE DS

Model	DA	kW	d	Dimensions [mm]					Weight [kg]
50DS51.5-3	50	1.5	G2	266	200	115	450	10	25
50DS52.2-3		2.2	G2	433	245	198	619	10	55
50DS53.7-3		3.7	G2	433	245	198	619	10	61
65DS51.5-3	65	1.5	-	407	210	197	503	10	35
80DS52.2-3	80	2.2	-	503	268	215	625	10	59
80DS53.7-3		3.7	-	503	268	215	625	10	64
100DS55.5-3	100	5.5	-	615	309	257	730	13	92
100DS57.5-3		7.5	-	615	309	257	730	13	104

SUBMERSIBLE SEMI-VORTEX PUMP

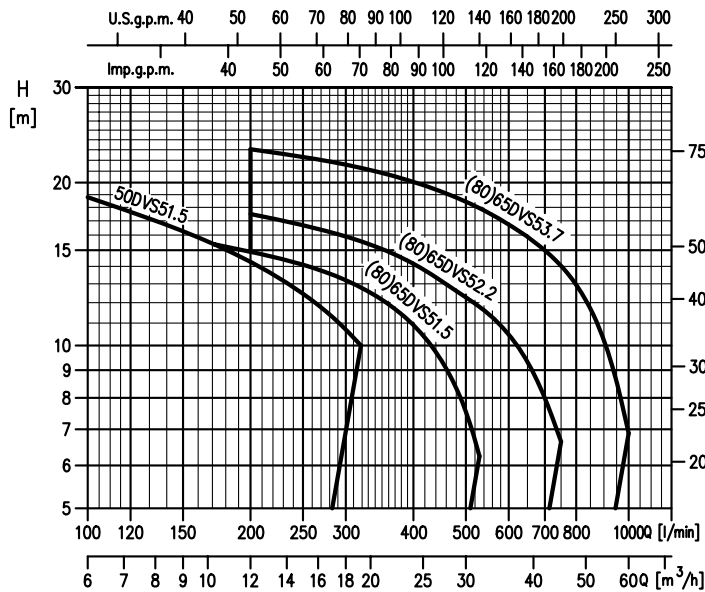


SPECIFICATIONS

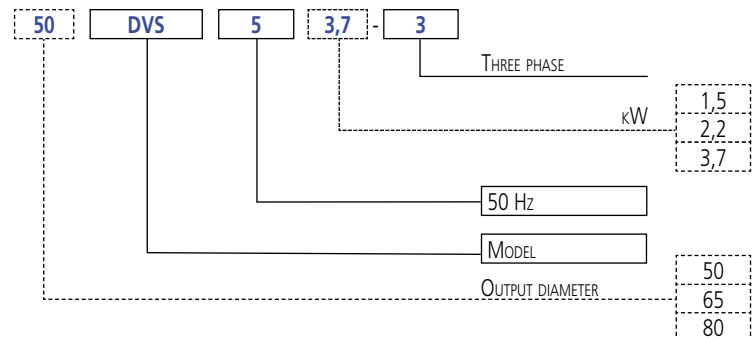
PUMP			
Liquid Handled	Type of liquid		Sewage
	Temperature		0-40°C
	Pump size: Max solid diameter		50DVS: 32 mm, 65(80)DVS: 45 mm, or 56 mm
	Maximum Submersible depth of the pump		4 m (0.4-1.5 kW), 8 m (2.2-3.7 kW)
Synchronous Speed		3000 min ⁻¹	
Construction	Mechanical Seal		Double mechanical seal
	Impeller		Semi-Vortex
	Bearing		Pre-lubricated bearing
Material	Casing		Cast iron
	Impeller		Cast iron
	Shaft		403 Stainless Steel
	Mechanical seal	Impeller side	Silicon carbide
		Motor side	Ceramic / Carbon
MOTOR			
Type	Air-filled watertight		
Nº of poles	2 pole		
Insulation Class	Class F		
Protection	Built in overload protector - Autocut		
ACCESSORIES			
Option	Quick discharge connector (QDC)		

The pump is equipped with a discharge elbow

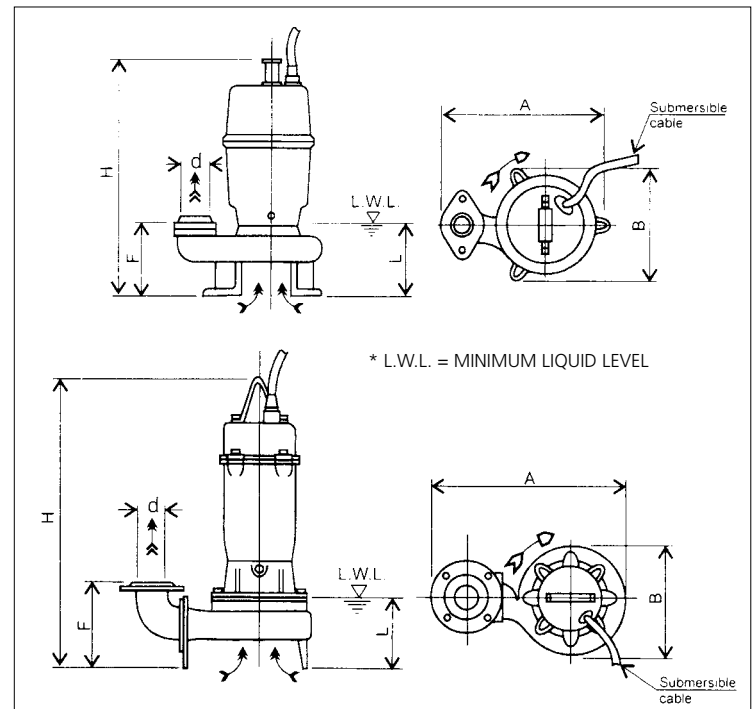
PERFORMANCE CHART



PUMP IDENTIFICATION CODE



DIMENSIONS



DIMENSIONS TABLE DVS

Model	DA	kW	Dimensions [mm]					Weight [kg]
			d	A	B	F	H	
50DVS51.5-3	50	1.5	G2	249	171	82	439	27
65DVS51.5-3	65	1.5	-	396	195	178	519	34
65DVS52.2-3		2.2	-	427	227	201	643	50
65DVS53.7-3		3.7	-	427	227	201	643	59
80DVS51.5-3	80	1.5	-	411	195	183	519	35
80DVS52.2-3		2.2	-	442	227	206	643	51
80DVS53.7-3		3.7	-	442	227	206	643	60

SUBMERSIBLE SEWAGE PUMP



SPECIFICATIONS

PUMP			
Liquid	Type of liquid	Sewage	
	Temperature	0-40°C	
Output diameter/Spherical shape		65mm/35mm - 80,100mm/50mm - 100mm/60mm - 150mm/70mm 200mm/76mm - 250mm/82mm - 300mm/90mm	
Output diameter/Max lenght of fibrous shape		65mm/195mm - 80,100mm/240mm - 100mm/300mm - 150mm/400mm 200mm/500mm - 250mm/550mm - 300mm/600mm	
Maximum Submersible depth of the pump		8 m (Max)	
Synchronous Speed		1450 min ⁻¹	
Construction	Mechanical Seal	Double mechanical seal	
	Impeller	Non-clog type	
	Bearings	Pre-lubricated bearings	
Material	Casing	Cast iron	
	Impeller	Cast iron	
	Suction Cover	Cast iron	
	Shaft	403 Stainless Steel	
	Motor Frame	Cast iron	
	Mechanical Seal	Impeller side	Silicon Carbide
		Motor side	Carbon / Ceramic
MOTOR			
Type	Air filled dry watertight		
N° of poles	4 poles		
Insulation Class	Class F		
Starting method	DOL (up to 7.5kW) Star-Delta (11-45 kW)		
Protection	Built in overload protector / up to 7.5 kW) / Minature thermal protector (11 to 45 kW)		
ACCESSORIES			
Option	Quick discharge connector (QDC)		

The pump is equipped with a discharge elbow

Model DL

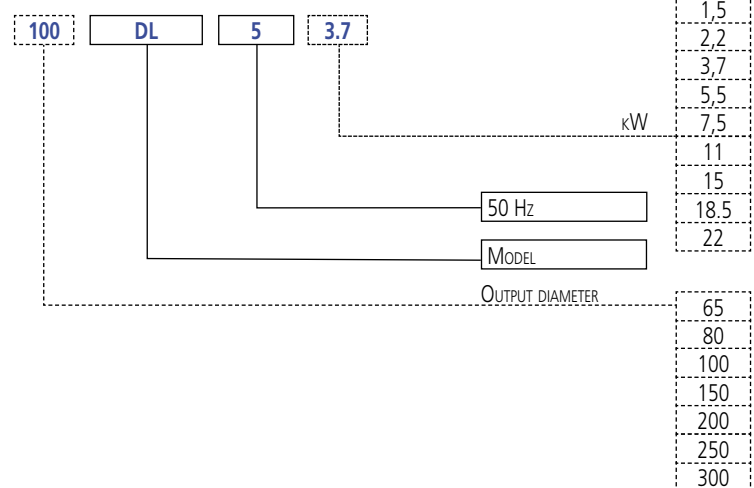
Features:

- Non-Clog Type Impellers prevents clogging by fibrous matter
- Range of models from 65 mm up to 300 mm discharge size and 45 kW available

Applications:

- Sewage
- Waster water

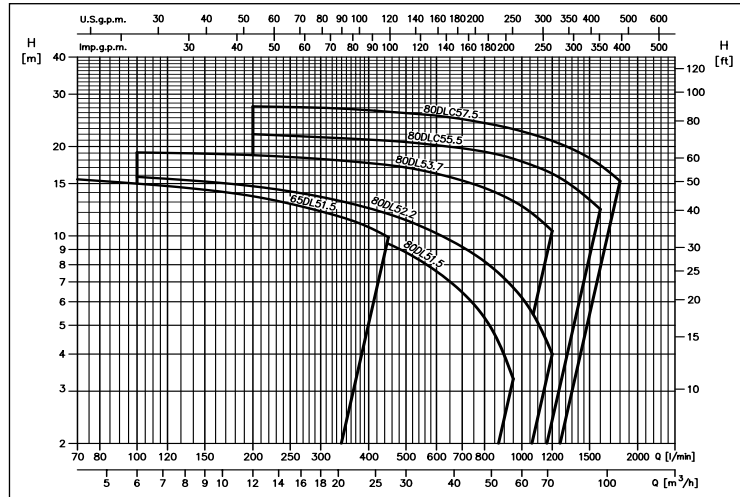
PUMP IDENTIFICATION CODE



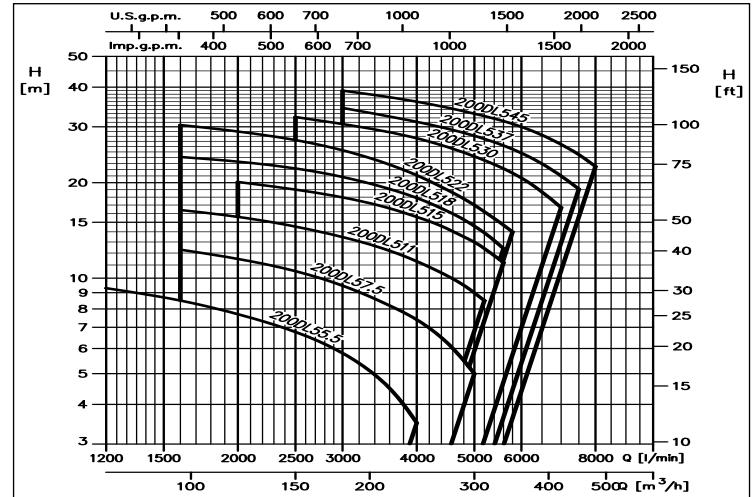
SUBMERSIBLE SEWAGE PUMP

PERFORMANCE CHART

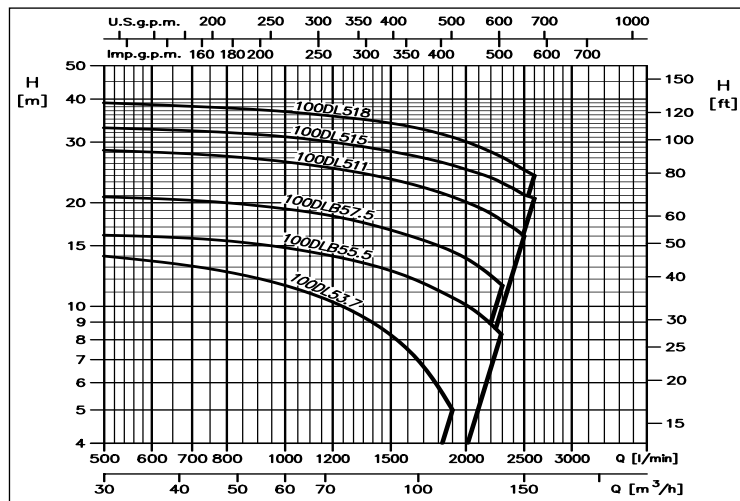
DL 65-80



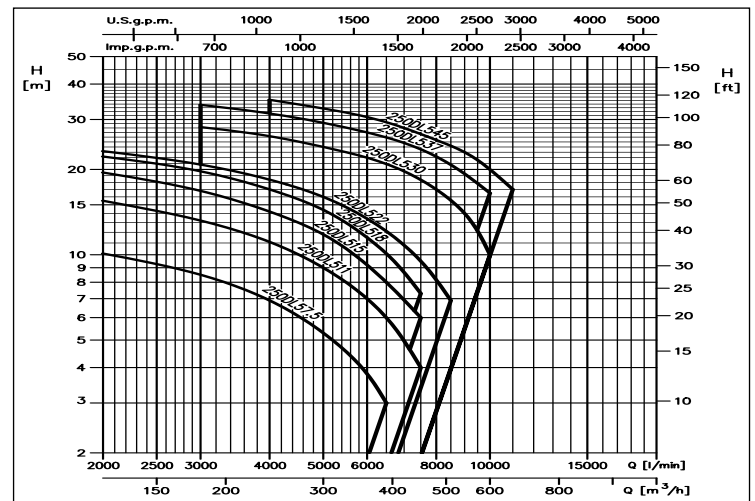
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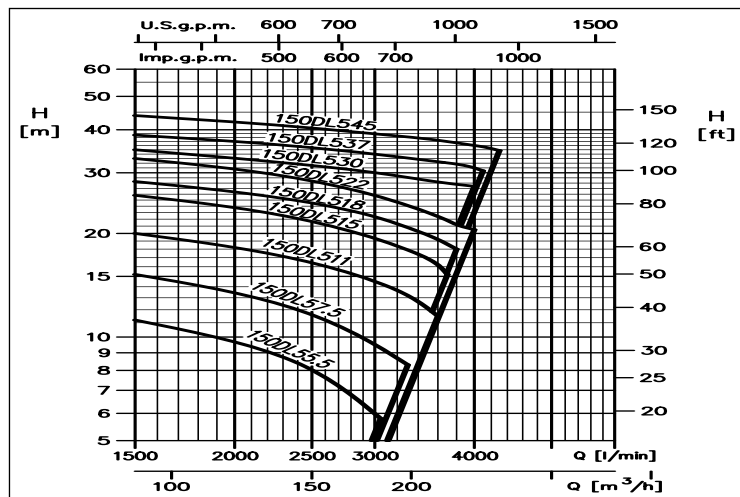
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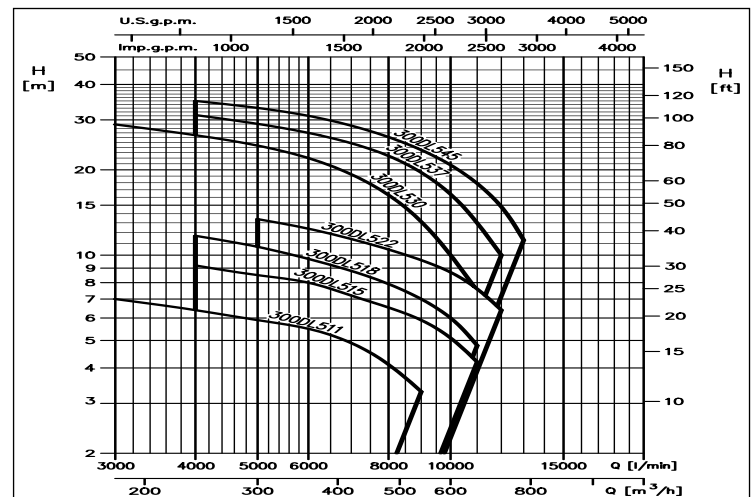
DL 250



DL 150

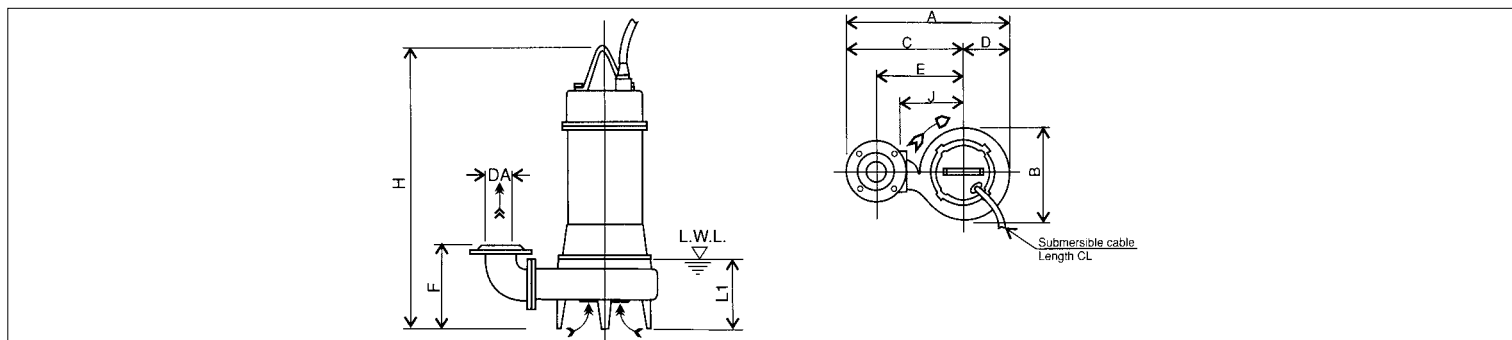


DL 300



SUBMERSIBLE SEWAGE PUMP

DIMENSIONS



DIMENSIONS TABLE DL

Model	DA	kW	Dimensions [mm]									Weight [kg]
			A	B	C	D	E	F	H	J	L1	
65DL51.5-3	65	1.5	497	291	353	144	265	200	576	200	140	52
80DL51.5-3	80	1.5	524	292	378	146	285	220	597	210	165	55
80DL52.2-3		2.2	542	308	388	154	295	220	654	220	165	67
80DL53.7-3		3.7	567	328	403	164	310	220	687	235	165	75
80DLC55.5-3		5.5	618	379	428	190	335	307	753	260	205	134
80DLC57.5-3		7.5	648	399	448	200	355	305	751	280	205	148
100DLC55.5-3	100	5.5	660	379	470	190	365	322	753	260	205	134
100DLC57.5-3		7.5	690	399	490	200	385	320	751	280	205	148
100DL53.7-3		3.7	614	335	445	169	340	250	706	235	185	79
100DLB55.5-3		5.5	646	369	460	186	355	323	768	250	205	123
100DLB57.5-3		7.5	673	385	480	193	375	323	760	270	205	141
100DL511-3		11	701	402	500	201	395	323	859	290	205	180
100DL515-3		15	741	441	520	221	415	330	954	310	205	230
100DL518.5-3		18.5	741	441	520	221	415	330	958	310	205	285
150DL55.5-3	150	5.5	750	398	550	200	410	381	799	280	245	146
150DL57.5-3		7.5	780	418	570	210	430	377	784	300	245	158
150DL511-3		11	810	438	590	220	450	377	883	320	245	199
150DL515-3		15	810	438	590	220	450	377	972	320	245	237
150DL518.5-3		18.5	848	476	610	238	470	381	979	340	245	300
150DL522-3		22	848	476	610	238	470	381	979	340	245	325
200DL55.5-3	200	5.5	832	430	615	217	450	414	826	300	285	160
200DL57.5-3		7.5	863	453	635	228	470	410	809	320	285	176
200DL511-3		11	863	453	635	228	470	410	908	320	285	212
200DL515-3		15	896	479	655	241	490	411	995	340	285	260
200DL518.5-3		18.5	932	512	675	257	510	415	1001	360	285	305
200DL522-3		22	932	512	675	257	510	415	1001	360	285	330
250DL57.5-3	250	7.5	969	525	700	269	500	622	904	370	400	260
250DL511-3		11	993	541	720	273	520	634	1000	390	400	320
250DL515-3		15	1007	549	730	277	530	646	1086	400	400	380
250DL518.5-3		18.5	1007	549	730	277	530	646	1089	400	400	420
250DL522-3		22	1007	549	730	277	530	646	1089	400	400	440
300DL511-3	300	11	1100	588	798	302	575	671	1050	420	450	365
300DL515-3		15	1100	588	798	302	575	671	1131	420	450	395
300DL518.5-3		18.5	1135	618	818	317	595	668	1131	440	450	440
300DL522-3		22	1135	618	818	317	595	668	1131	440	450	465

DIMENSIONS TABLE DL W/C

Model	DA	kW	Dimensions [mm]									Weight [kg]
			A	B	C	D	E	F	H	J	L1	
65DL51.5-3	65	1.5	497	291	353	144	265	200	576	200	140	52
80DL51.5-3	80	1.5	524	292	378	146	285	220	597	210	165	55
80DL52.2-3		2.2	542	308	388	154	295	220	654	220	165	67
80DL53.7-3		3.7	567	328	403	164	310	220	687	235	165	75
100DL53.7-3	100	3.7	614	335	445	169	340	250	706	235	185	79
100DLB55.5-3		5.5	646	369	460	186	355	323	768	250	205	123
100DLB57.5-3		7.5	673	385	480	193	375	323	760	270	205	141

DML - DMLV

SUBMERSIBLE SEWAGE PUMP

SPECIFICATIONS

PUMP		
Liquid Handled	Type of liquid	Sewage, Wastewater
	Temperature	0-40°C
	Max solid diameter	DML: 76 mm / DMLV: equivalent to the pump diameter
Maximum Submersible depth of the pump		8 m
Synchronous Speed		1500 min ⁻¹
Construction	Mechanical Seal	Double mechanical seal
	Impeller	Single channel, non-clog
	Bearing	Pre-lubricated bearing
Material	Casing	Cast iron
	Impeller	Cast iron
	Shaft	403 Stainless Steel
	Mechanical Seal	Impeller side: Silicon carbide
	Seal	Motor side: Ceramic / Carbon
MOTOR		
Type		Air-filled watertight
N° of poles		4 poles
Insulation Class		Class F
Protection		Built-in overload protector (2.2 kW), miniature thermal protector (3.7-22 kW)
ACCESSORIES		
Option		Quick discharge connector (QDC)

The pump is equipped with a discharge elbow



Model DML -DMLV

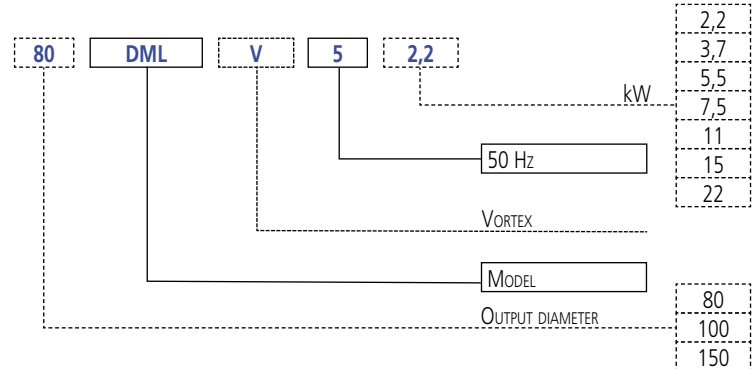
Features:

Single-channel impeller (DML) or vortex impeller (DMLV)

Applications:

- Evacuation of civil and industrial waste waters
- Treating liquid manure
- Draining sub-layer zones
- Generally moving foul waste liquids also containing solid substances and/or suspended filamentary substances
- Emptying seepage water
- Moving sewage (sanitary services)
- Emptying cesspits

PUMP IDENTIFICATION CODE

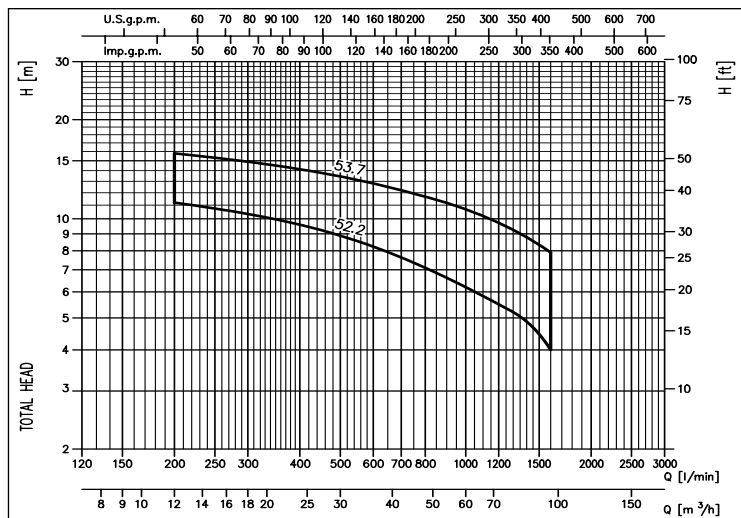


DML - DMLV

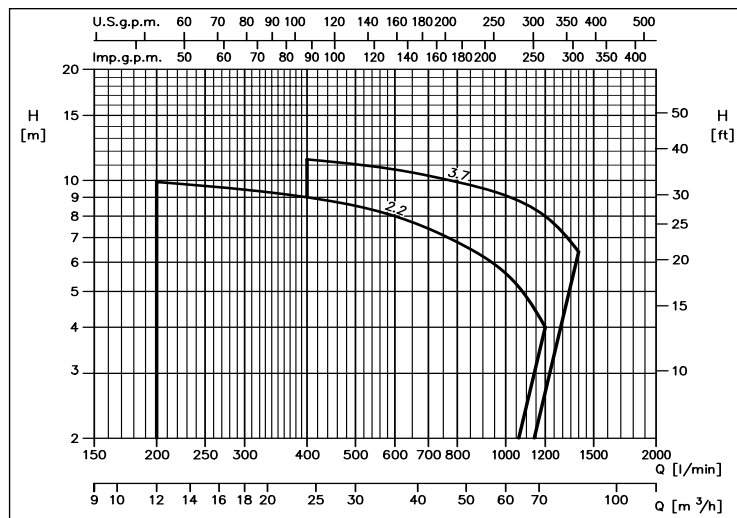
SUBMERSIBLE SEWAGE PUMP

PERFORMANCE CHART

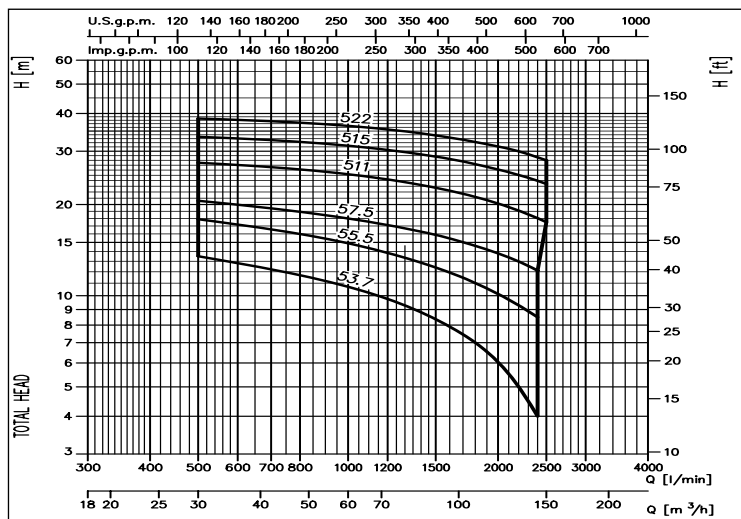
80 DML



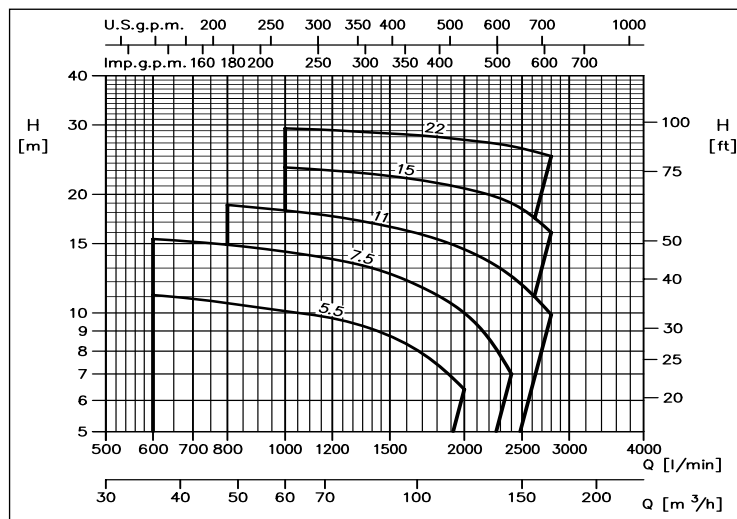
80 DMLV



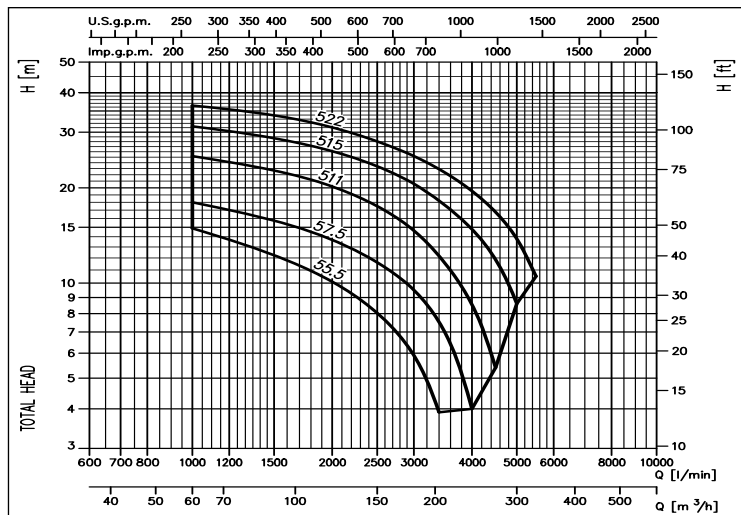
100 DML



100 DMLV



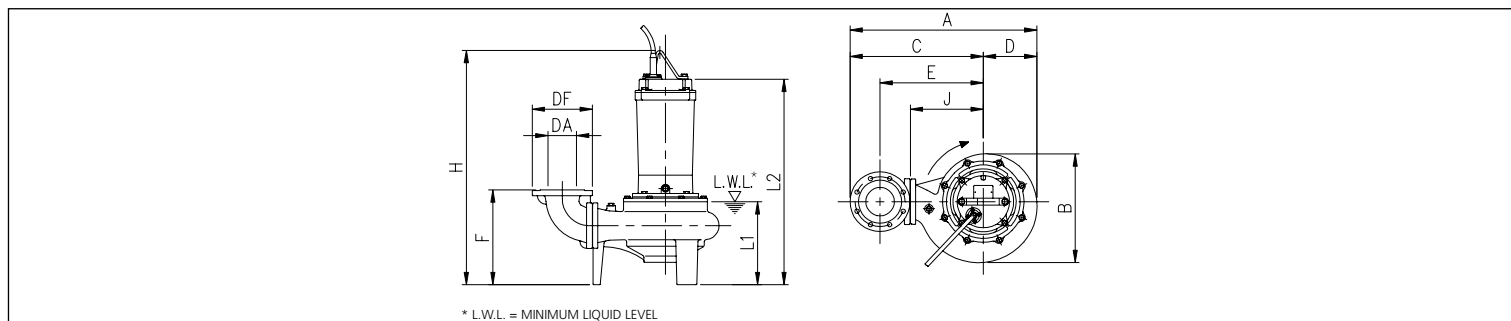
150 DML



DML - DMLV

SUBMERSIBLE SEWAGE PUMP

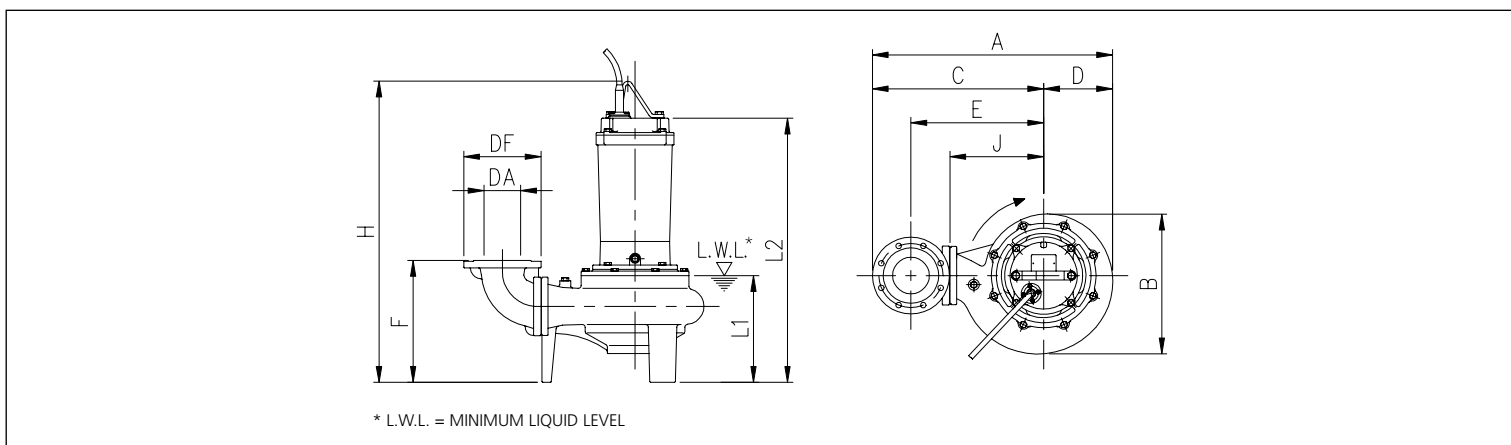
DIMENSIONS DML



DIMENSIONS TABLE DML

Model	DIMENSIONS [mm]												Weight [kg]
	DA	kW	A	B	C	D	E	F	H	J	L1	L2	
80DML52.5	80	2,2	542	320	385	157	285	308	668	210	279	547	80,0
80DML53.7	80	3,7	542	320	385	157	285	308	727	210	279	627	87,0
100DML53.7	100	3,7	582	320	425	157	315	313	727	210	279	627	89,0
100DML55.5	100	5,5	658	381	470	188	360	339	824	255	310	724	121,0
100DML57.5	100	7,5	658	381	470	188	360	339	824	255	310	724	125,0
100DML511	100	11	751	455	530	221	420	355	938	315	329	778	160,0
100DML515	100	15	751	455	530	221	420	355	938	315	329	778	166,0
100DML522	100	22	795	497	550	245	440	358	1021	335	342	841	226,0
150DML55.5	150	5,5	715,5	381	527,5	188	385	369	824	255	310	724	127,0
150DML57.5	150	7,5	715,5	381	527,5	188	385	369	824	255	310	724	132,0
150DML511	150	11	808,5	455	587,5	221	445	385	938	315	329	778	166,0
150DML515	150	15	808,5	455	587,5	221	445	385	938	315	329	778	172,0
150DML522	150	22	852,5	497	607,5	245	465	388	1021	335	342	841	232,0

DIMENSIONS DMLV



DIMENSIONS TABLE DMLV

Model	DIMENSIONS [mm]																		Weight [kg]
	DA	kW	DE	DF	DG	DT	N°	D1	A	B	C	D	E	F	H	J	L1	L2	
80DMLV52.2	80	2,2	160	200	138	22	8	18	518	285	375	143	275	254	660	200	200	560	70
80DMLV53.7	80	3,7	160	200	138	22	8	18	518	285	375	143	721	254	721	200	200	620	80
100DMLV55.5	100	5,5	180	220	158	24	8	22	584	308	430	154	860	305	860	215	250	760	105
100DMLV57.5	100	7,5	180	220	158	24	8	22	641	352	465	176	860	305	860	250	250	760	120
100DMLV511	100	11	180	220	158	24	8	22	641	352	465	176	970	305	970	250	250	810	150
100DMLV515	100	15	180	220	158	24	8	22	728	426	515	213	970	305	970	300	250	810	180
100DMLV522	100	22	180	220	158	24	8	22	728	426	515	213	1045	305	1045	300	250	865	235

EBARA Pumps Europe network

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EBARA CASERTA

Via S.S. 87 km 21+100
81025 Marcianise (CE)
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59100 Prato
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EBARA PALERMO

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Agencies

GENOVA

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