



EBARA

**SUBMERSIBLE ELECTRIC PUMPS
FOR WASTEWATER**

50 Hz

DS



DVS



DL • DL/WC



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

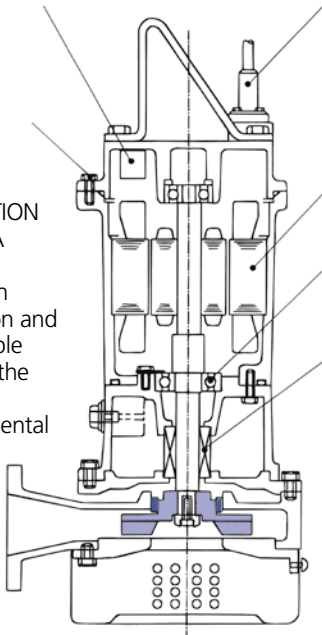
ALL FASTENERS
made of
STAINLESS STEEL

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

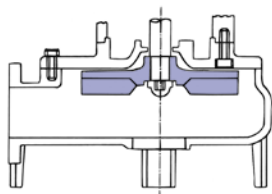
Air filled, high efficiency copper wound motors with class F insulation

BALL BEARINGS are permanently lubricated high Temperatura type

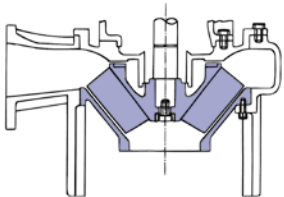
MECHANICAL SEALS
Oil lubricated, double mechanical seals with hard faces provide reliable shaft sealing



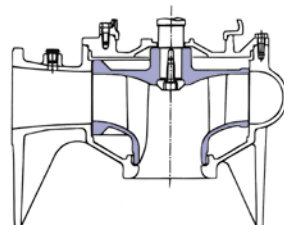
MODEL DS



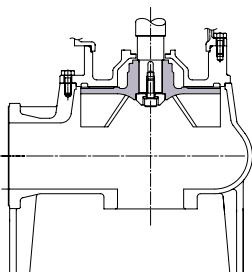
MODEL DVS



MODEL DL



MODEL DML



MODEL DMLV

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 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 - DL/WC

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

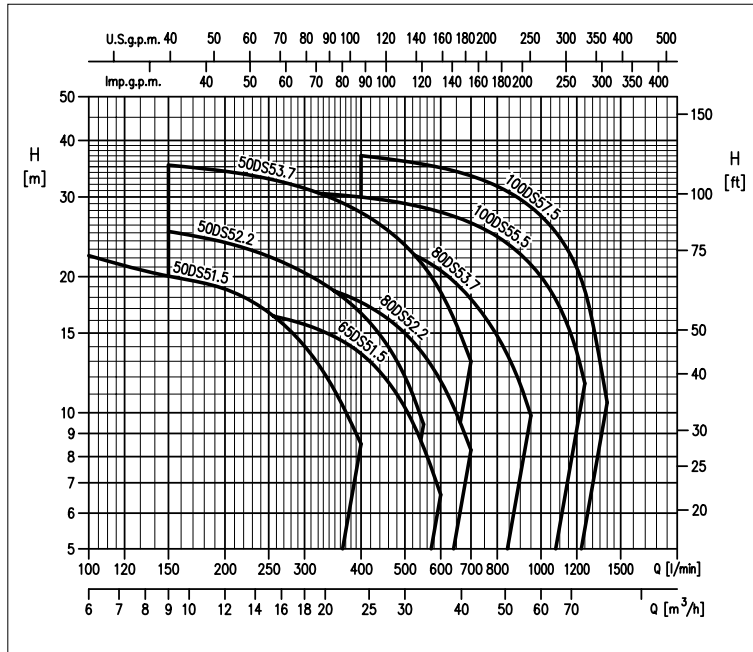


SPECIFICATIONS

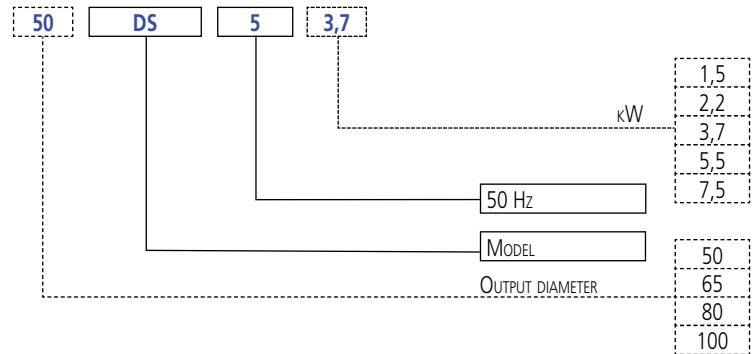
PUMP		
Liquid Handled	Type of liquid	Sump
	Temperature	0-40°C
	Pump size: Max solid diameter	5 (50DS); 6 (65DS); 7 (80DS); 8 (100DS)
Maximum Submersible depth of the pump	4 m (1,5 kW); 8 m (2,2-7,5 kW)	
Synchronous Speed	~2850 min ⁻¹	
Construction	Mechanical Seal	Double mechanical seal
	Impeller	Semi-open
	Bearing	Pre-lubricated bearing
Material	Casing	Cast iron
	Impeller	Cast iron
	Shaft	403 Stainless Steel
	Mechanical Seal	Impeller side: SiC / SiC / NBR
	Motor side	Ceramic / Carbon / NBR
MOTOR		
Type	Air-filled dry submersible three phase	
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



Model DS

Features:

- Efficient Semi-Open Impeller
- Strainer prevents blockages

Applications:

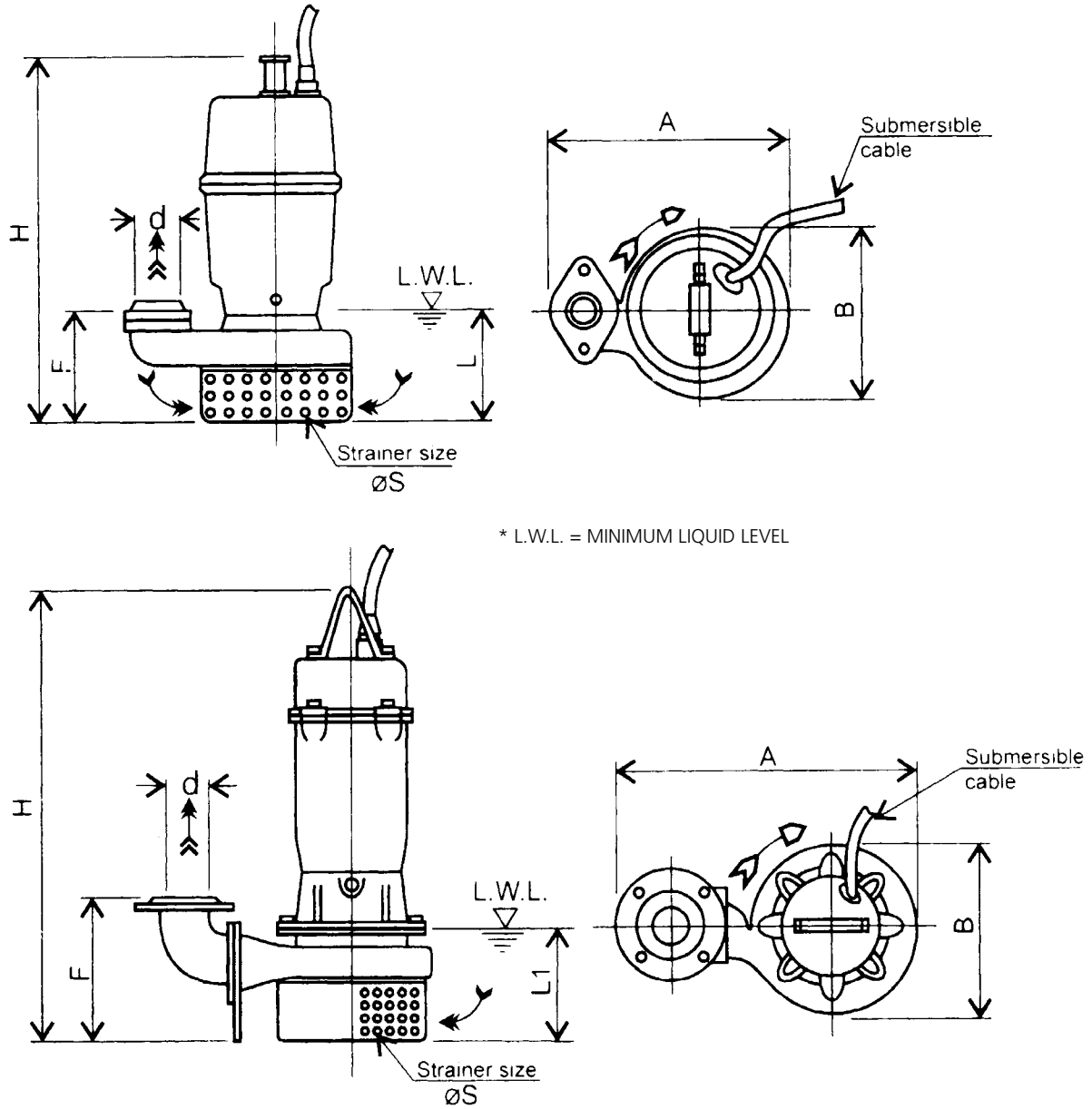
- Purification tank drainage
- Rain and spring water drainage
- Water supply

PERFORMANCES TABLE

Model	P ₂		Q = Capacity																		
	[kW]	[HP]	l/min 0	100	150	200	250	300	400	450	500	550	600	700	800	950	1000	1200	1250	1400	
			m ³ /h 0	6	9	12	15	18	24	27	30	33	36	42	48	57	60	72	75	84	
H = Total manometric head in meters																					
50DS51.5	1,5	2	24,0	22,3	20,7	18,8	16,5	14,0	8,5	-	-	-	-	-	-	-	-	-	-	-	
50DS52.2	2,2	3	27,0	-	25,2	23,7	22,1	20,4	16,6	14,4	12,0	9,4	-	-	-	-	-	-	-	-	
50DS53.7	3,7	5	37,4	-	35,3	34,2	32,9	31,4	27,7	25,7	23,5	21,1	18,6	-	-	-	-	-	-	-	
65DS51.5	1,5	2	18,0	-	17,5	17,1	16,5	15,7	13,5	12,0	10,3	8,5	6,6	-	-	-	-	-	-	-	
80DS52.2	2,2	3	22,0	-	-	20,8	20,2	19,4	17,6	16,4	15,0	13,4	11,8	8,3	-	-	-	-	-	-	
80DS53.7	3,7	5	27,5	-	-	-	26,3	25,8	24,6	23,7	22,8	21,8	20,6	17,8	14,8	9,9	-	-	-	-	
100DS55.5	5,5	7,5	31,6	-	-	-	-	30,7	30,0	29,5	29,0	28,4	27,8	26,3	24,5	21,3	20,0	13,6	11,6	-	
100DS57.5	7,5	10	39,2	-	-	-	-	-	37,0	36,6	36,0	35,5	34,8	33,4	31,7	28,5	27,3	21,4	19,7	13,2	

SUBMERSIBLE SUMP PUMP

DIMENSIONS



DIMENSIONS TABLE DS

Model	DN	[kW]	d	Dimensions [mm]						Weight [kg]
				A	B	F	H	S	L1	
50DS51.5	50	1,5	G2	266	200	115	450	10	110	25
50DS52.2		2,2	-	433	245	198	619	10	160	55
50DS53.7		3,7	-	433	245	198	619	10	160	61
65DS51.5	65	1,5	-	407	210	197	503	10	110	35
80DS52.2	80	2,2	-	503	268	215	625	10	160	59
80DS53.7		3,7	-	503	268	215	625	10	160	64
100DS55.5	100	5,5	-	615	309	257	730	13	200	92
100DS57.5		7,5	-	615	309	257	730	13	200	104

SUBMERSIBLE SEMI-VORTEX PUMP

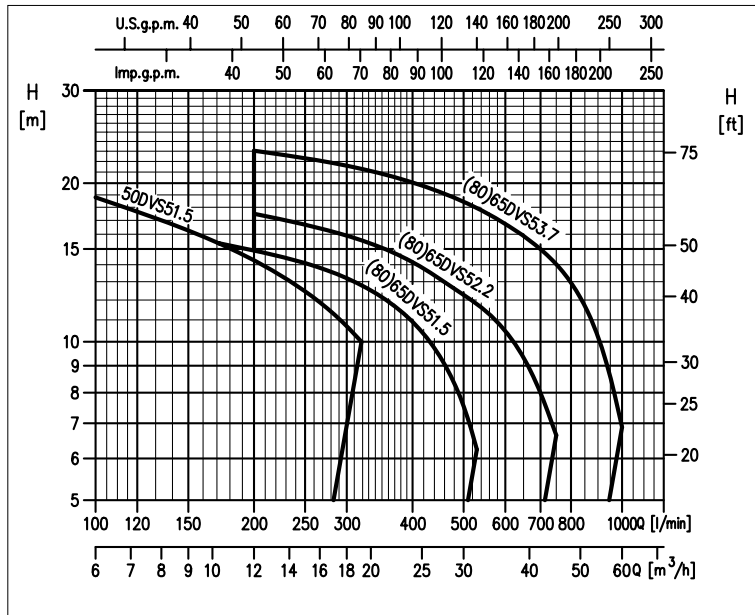


SPECIFICATIONS

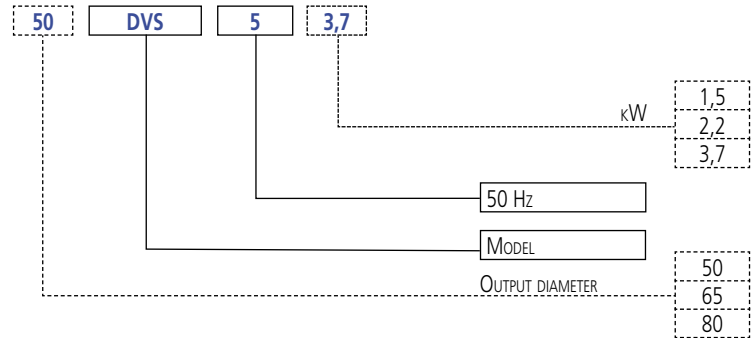
PUMP		
Liquid Handled	Type of liquid	Sewage
	Temperature	0-40°C
	Pump size: Max solid diameter	21 (50 DVS); 33 (65, 80 DVS - 1,5 kW); 41 (65, 80 DVS - 2,2÷3,7 kW)
	Max. Length of Fibers	100 (50 DVS); 200 (65, 80 DVS 1,5 kW); 245 (65, 80 DVS 2,2÷3,7 kW)
Maximum Submersible depth of the pump		4 m (1,5 kW), 8 m (2,2-3,7 kW)
Synchronous Speed		~2850 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: SiC / SiC / NBR Motor side: Ceramic / Carbon / NBR
MOTOR		
Type	Air-filled dry submersible three phase	
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



Model DVS

Features:

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

Applications:

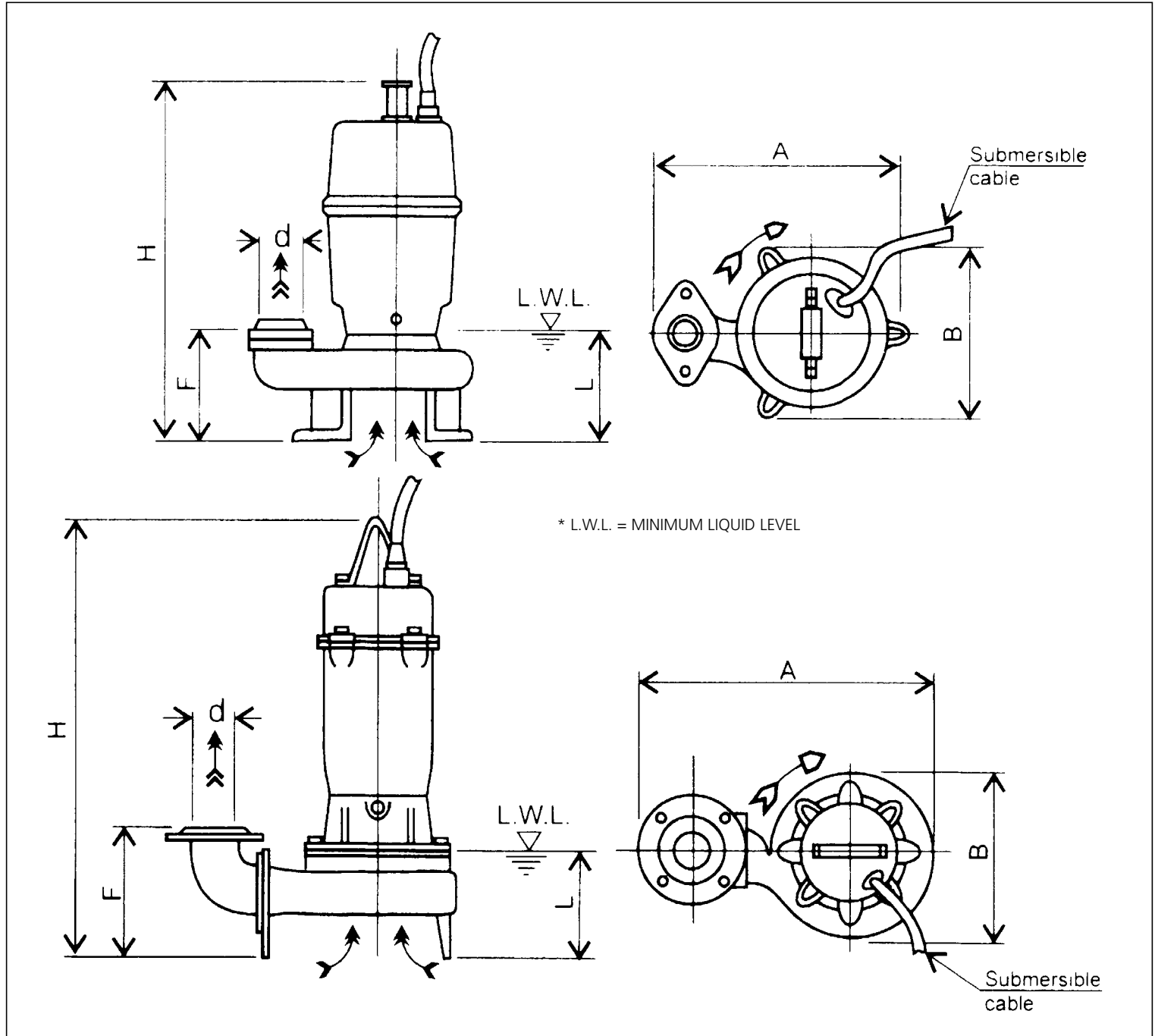
- Ideal for waste water applications containing soft or fibrous solids
- Industrial waste water drainage
- Septic effluent
- Miscellaneous drainage

PERFORMANCES TABLE

Model	P ₂		Q = Capacity												
	[kW]	[HP]	l/min 0	100	150	200	300	400	500	550	600	700	750	900	1000
			m ³ /h 0	6	9	12	18	24	30	33	36	42	45	54	60
H = Total manometric head in meters															
50DVS51.5	1,5	2	22,0	18,8	16,6	14,3	10,7	-	-	-	-	-	-	-	-
(80)65DVS51.5	1,5	2	18,6	-	15,8	14,9	13,2	10,9	7,6	5,3	-	-	-	-	-
(80)65DVS52.2	2,2	3	20,3	-	-	17,5	15,9	14,2	12,3	11,5	10,5	8,1	6,6	-	-
(80)65DVS53.7	3,7	5	25,7	-	-	23,0	21,6	20,1	18,4	17,6	16,7	15,0	14,0	10,4	6,9

SUBMERSIBLE SEMI-VORTEX PUMP

DIMENSIONS



DIMENSIONS TABLE DVS

Model	DN	[kW]	d	Dimensions [mm]					Weight [kg]
				A	B	F	H	L	
50DVS51.5	50	1,5	G2	249	171	82	439	105	27
65DVS51.5	65	1,5	-	396	195	178	519	125	34
65DVS52.2		2,2	-	427	227	201	643	155	50
65DVS53.7		3,7	-	427	227	201	643	155	59
80DVS51.5	80	1,5	-	411	195	183	519	125	35
80DVS52.2		2,2	-	442	227	206	643	155	51
80DVS53.7		3,7	-	442	227	206	643	155	60

DL - DL/WC

SUBMERSIBLE SEWAGE PUMP



SPECIFICATIONS

PUMP		
Liquid	Type of liquid	Sewage
	Temperature	0-40°C
Maximum Submersible depth of the pump		8 m
Synchronous Speed		~1450 min ⁻¹
Construction	Mechanical Seal	Double mechanical seal
	Impeller	Non-clog semi open 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: SiC / SiC / NBR Motor side: Ceramic / Carbon / NBR
MOTOR		
Type	Air filled dry submersible three phase	
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) / Miniature thermal protector (11-45 kW)	
ACCESSORIES		
Option	Quick discharge connector (QDC)	

The pump is equipped with a discharge elbow.

SOLIDS HANDLINGS										
Model		DL	DL, DLC	DLC	DL, DLB	DL	DL	DL	DL	DL
Output diameter	[mm]	65	80	100(80)	100	150	200	250	300	150, 200, 250, 300
Power	[kW]	1,5	1,5÷7,5	5,5÷7,5	3,7÷18,5	5,5÷22	5,5÷22	7,5÷22	7,5÷22	30÷45
Max. Diameter of Solids	[mm]	35	50	50	60	70	76	82	90	76
Max. Length of Fibers	[mm]	195	240	240	300	400	500	550	600	500

Model DL

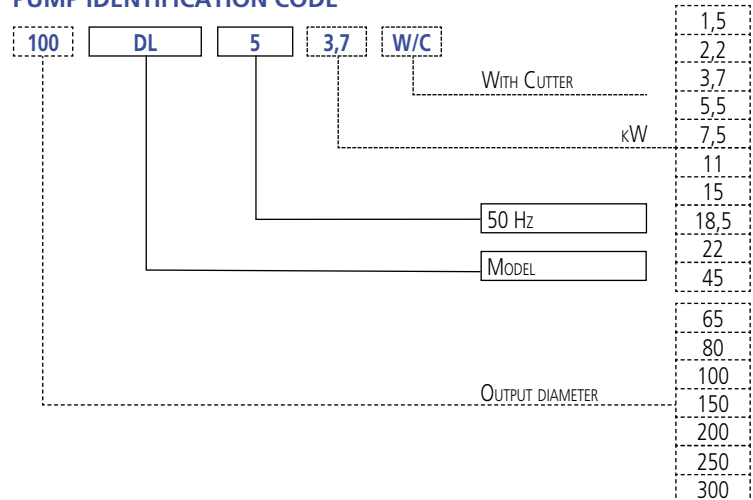
Features:

- 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



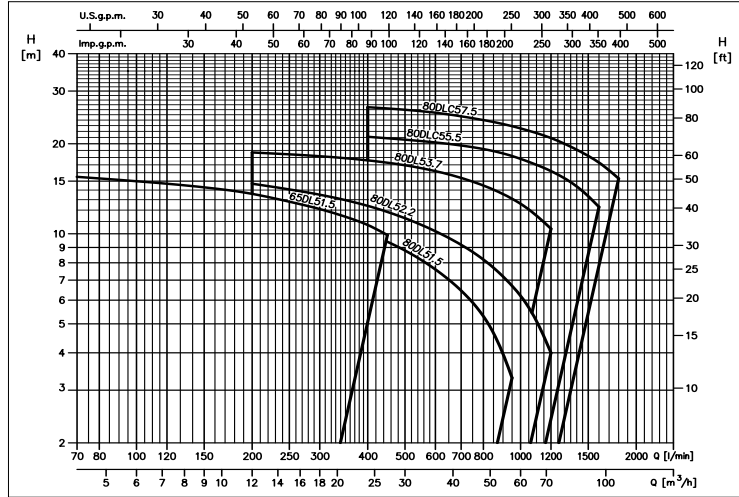


DL - DL/WC

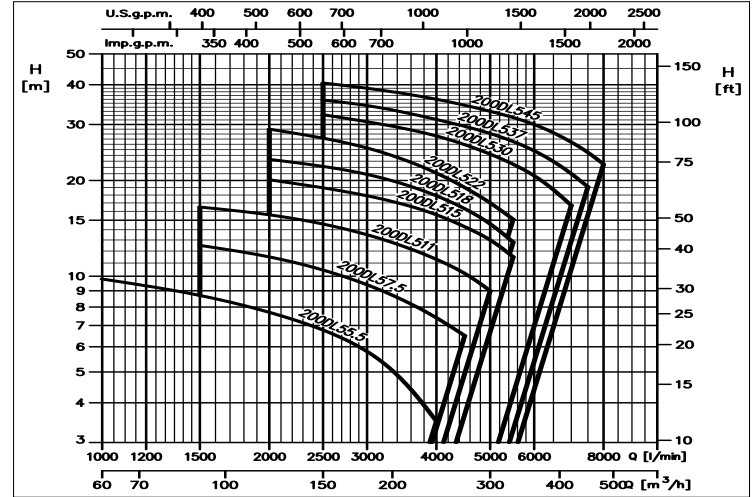
SUBMERSIBLE SEWAGE PUMP

PERFORMANCE CHART

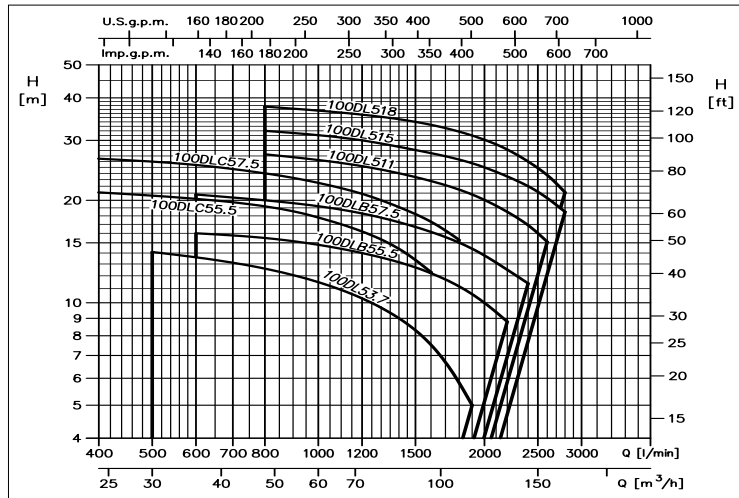
65-80DL



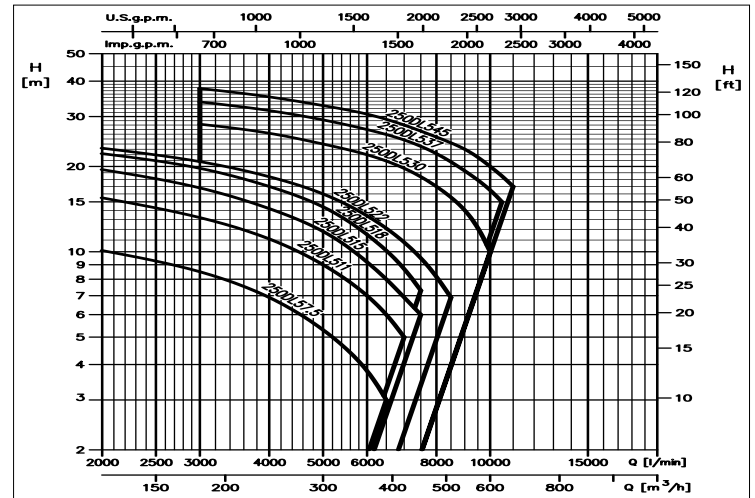
200DL



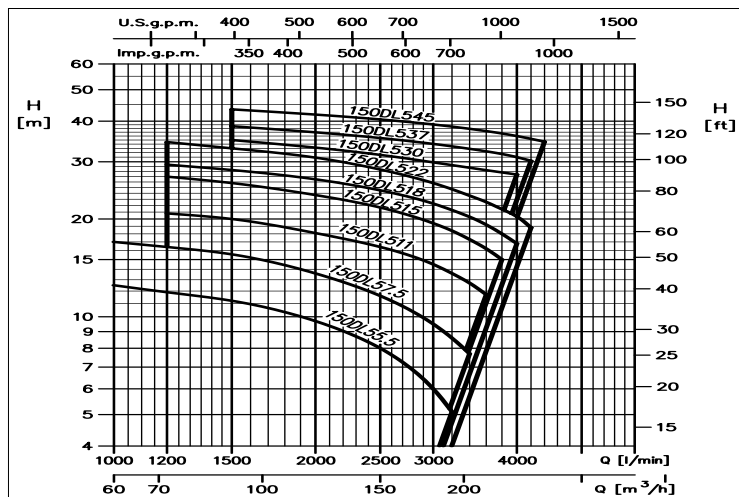
100DL



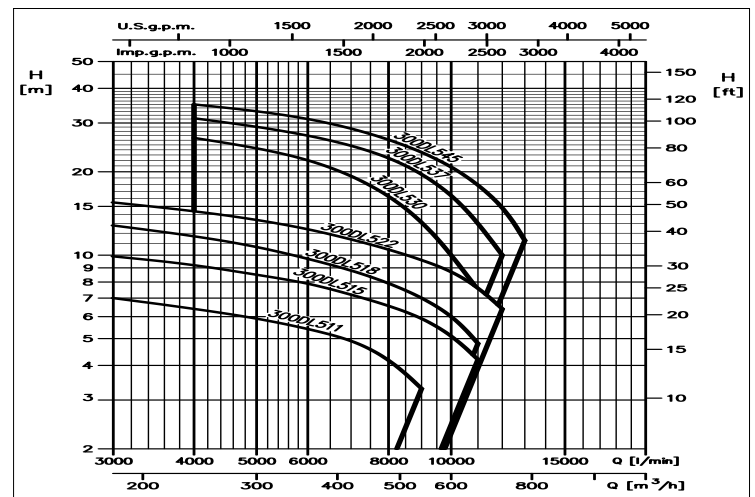
250DL



150DL

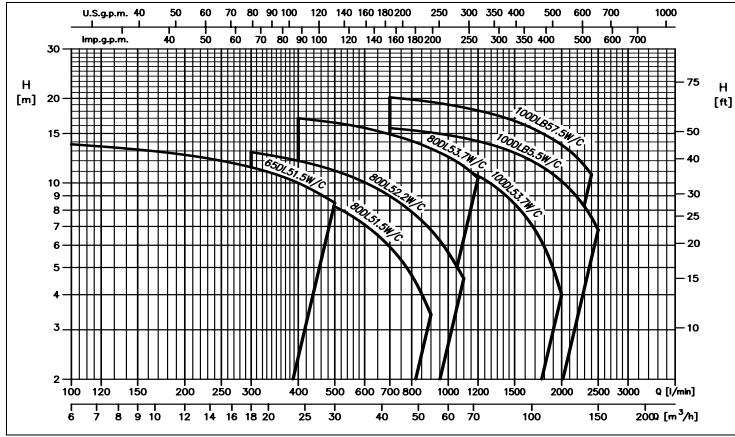


300DL



SUBMERSIBLE SEWAGE PUMP

PERFORMANCE CHART DL WITH CUTTER



PERFORMANCES TABLE 65-80DL

Model	P ₂		Q = Capacity													
	[kW]	[HP]	l/min 0	70	150	200	400	450	600	800	950	1000	1200	1400	1600	1800
			m ³ /h 0	4	9	12	24	27	36	48	57	60	72	84	96	108
H = Total manometric head in meters																
65DL51.5	1,5	2	16,4	15,5	14,3	13,6	10,7	9,9	-	-	-	-	-	-	-	-
80DL51.5	1,5	2	14,0	-	-	12,2	10,0	9,4	7,6	5,3	3,3	-	-	-	-	-
80DL52.2	2,2	3	17,1	-	-	14,7	12,4	11,8	10,2	8,2	6,7	6,2	4,0	-	-	-
80DL53.7	3,7	5	19,4	-	-	18,7	17,6	17,3	16,2	14,5	13,1	12,6	10,4	-	-	-
80DL55.5	5,5	7,5	22,2	-	-	-	21,1	20,9	20,2	19,2	18,2	17,8	16,2	14,4	12,3	-
80DL57.5	7,5	10	28,0	-	-	-	26,5	26,3	25,4	24,0	22,9	22,5	20,9	19,1	17,3	15,3

PERFORMANCES TABLE 100DL

Model	P ₂		Q = Capacity													
	[kW]	[HP]	l/min 0	400	500	600	800	1200	1500	1600	1800	1900	2200	2400	2600	2800
			m ³ /h 0	24	30	36	48	72	90	96	108	114	132	144	156	168
H = Total manometric head in meters																
100DL51.5	1,5	2	16,4	15,5	14,3	13,6	10,7	9,9	-	-	-	-	-	-	-	-
100DL52.2	2,2	3	17,1	-	-	14,7	12,4	11,8	10,2	8,2	6,7	6,2	4,0	-	-	-
100DL53.7	3,7	5	19,4	-	-	18,7	17,6	17,3	16,2	14,5	13,1	12,6	10,4	-	-	-
100DL55.5	5,5	7,5	22,2	-	-	-	21,1	20,9	20,2	19,2	18,2	17,8	16,2	14,4	12,3	-
100DL57.5	7,5	10	28,0	-	-	-	26,5	26,3	25,4	24,0	22,9	22,5	20,9	19,1	17,3	15,3
100DL511	11	15	30,4	-	-	-	27,3	25,2	23,4	22,8	21,5	20,8	18,5	16,9	15,1	-
100DL515	15	20	33,9	-	-	-	32,0	30,0	28,1	27,6	26,4	25,7	23,5	22,0	20,3	18,5
100DL518.5	18,5	25	41,0	-	-	-	37,7	35,7	34,0	33,4	31,9	31,0	28,2	26,0	23,7	21,1

PERFORMANCES TABLE 150DL

Model	P ₂		Q = Capacity														
	[kW]	[HP]	l/min 0	1000	1200	1500	2000	2500	3000	3200	3400	3500	3600	3800	4000	4200	4400
			m ³ /h 0	60	72	90	120	150	180	192	204	210	216	228	240	252	264
H = Total manometric head in meters																	
150DL55.5	5,5	7,5	15,8	12,5	11,9	11,2	9,7	8,0	6,0	5,1	-	-	-	-	-	-	-
150DL57.5	7,5	10	19,6	17,0	16,4	15,2	13,6	11,6	9,5	8,6	7,7	-	-	-	-	-	-
150DL511	11	15	24,7	-	20,8	20,0	18,1	16,4	14,5	13,6	12,7	12,2	11,7	-	-	-	-
150DL515	15	20	31,4	-	27,0	25,8	23,7	21,7	19,4	18,4	17,3	16,8	16,2	15,0	-	-	-
150DL518.5	18,5	25	32,5	-	29,4	28,3	26,5	24,5	22,3	21,3	20,3	19,8	19,2	18,0	16,8	-	-
150DL522	22	30	38,7	-	34,5	33,0	30,9	28,4	25,8	24,7	23,6	23,0	22,4	21,2	20,5	18,8	-
150DL530	30	40	39,0	-	-	35,0	33,2	31,5	29,9	29,3	28,8	28,5	28,3	27,8	27,4	-	-
150DL537	37	50	43,0	-	-	38,6	37,0	35,5	34,1	33,5	32,9	32,6	32,3	31,7	31,0	30,2	-
150DL545	45	60	48,0	-	-	43,5	42,0	40,5	39,1	38,5	37,9	37,6	37,3	36,7	36,0	35,3	34,6

SUBMERSIBLE SEWAGE PUMP

PERFORMANCES TABLE 200DL

Model	P ₂		Q = Capacity													
	[kW]	[HP]	l/min 0	1000	1500	2000	2500	3000	4000	4500	5000	5500	6000	7000	7500	8000
			m ³ /h 0	60	90	120	150	180	240	270	300	330	360	420	450	480
H = Total manometric head in meters																
200DL55.5	5,5	7,5	12,0	9,8	8,7	7,7	6,8	5,8	3,5	-	-	-	-	-	-	-
200DL57.5	7,5	10	15,5	-	12,5	11,5	10,5	9,4	7,4	6,5	-	-	-	-	-	-
200DL511	11	15	19,7	-	16,5	15,6	14,6	13,5	11,3	10,2	9,0	-	-	-	-	-
200DL515	15	20	23,9	-	-	20,1	19,0	17,9	15,6	14,3	13,0	11,5	-	-	-	-
200DL518.5	18,5	25	26,5	-	-	23,3	22,2	20,9	17,9	16,3	14,6	12,8	-	-	-	-
200DL522	22	30	34,9	-	-	29,0	27,2	25,3	21,1	19,0	17,0	15,1	-	-	-	-
200DL530	30	40	39,7	-	-	-	32,2	30,6	27,6	25,9	24,2	22,5	20,7	16,7	-	-
200DL537	37	50	43,0	-	-	-	35,8	34,4	31,1	29,6	28,1	26,5	24,8	21,0	19,1	-
200DL545	45	60	48,0	-	-	-	40,5	39,0	36,0	34,5	33,0	31,5	30,0	26,4	24,5	22,5

PERFORMANCES TABLE 250DL

Model	P ₂		Q = Capacity														
	[kW]	[HP]	l/min 0	2000	3000	4000	5000	6000	6500	7000	7500	8000	8500	9000	10000	10500	11000
			m ³ /h 0	120	180	240	300	360	390	420	450	480	510	540	600	630	660
H = Total manometric head in meters																	
250DL57.5	7,5	10	13,6	10,1	8,5	6,9	5,3	3,8	3,0	-	-	-	-	-	-	-	-
250DL511	11	15	20,2	15,5	13,2	11,1	9,0	7,0	6,0	5,0	-	-	-	-	-	-	-
250DL515	15	20	25,2	19,5	16,8	14,2	11,8	9,2	8,0	6,9	6,0	-	-	-	-	-	-
250DL518.5	18,5	25	27,0	22,2	19,7	17,0	14,4	11,5	10,1	8,7	7,3	-	-	-	-	-	-
250DL522	22	30	27,8	23,2	20,8	18,4	16,0	13,4	12,1	10,8	9,5	8,2	6,9	-	-	-	-
250DL530	30	40	36,0	-	28,2	26,2	24,0	22,0	20,9	19,7	18,4	17,0	15,6	14,0	10,0	-	-
250DL537	37	50	40,0	-	33,8	31,5	29,2	27,0	25,9	24,8	23,5	22,2	20,8	19,3	16,5	15,0	-
250DL545	45	60	45,0	-	37,7	35,2	32,8	30,6	29,3	28,0	26,7	25,4	24,2	23,0	20,0	18,5	17,0

PERFORMANCES TABLE 300DL

Model	P ₂		Q = Capacity											
	[kW]	[HP]	l/min 0	3000	4000	5000	6000	7000	8000	9000	10000	11000	12000	13000
			m ³ /h 0	180	240	300	360	420	480	540	600	660	720	780
H = Total manometric head in meters														
300DL511	11	15	9,2	7,0	6,4	5,9	5,5	4,9	4,2	3,3	-	-	-	-
300DL515	15	20	12,2	9,9	9,2	8,5	8,0	7,2	6,6	5,9	5,1	4,2	-	-
300DL518.5	18,5	25	16,6	12,8	11,7	10,7	9,7	8,8	7,9	7,0	6,0	4,8	-	-
300DL522	22	30	19,0	15,5	14,4	13,4	12,4	11,4	10,5	9,6	8,7	7,6	6,4	-
300DL530	30	40	36,0	-	26,5	24,4	22,0	19,3	16,3	13,1	10,0	7,5	-	-
300DL537	37	50	40,0	-	31,2	29,2	27,0	24,8	22,4	19,6	16,4	13,0	10,0	-
300DL545	45	60	45,0	-	35,0	33,1	31,0	28,6	26,1	23,5	20,8	17,9	14,8	11,3

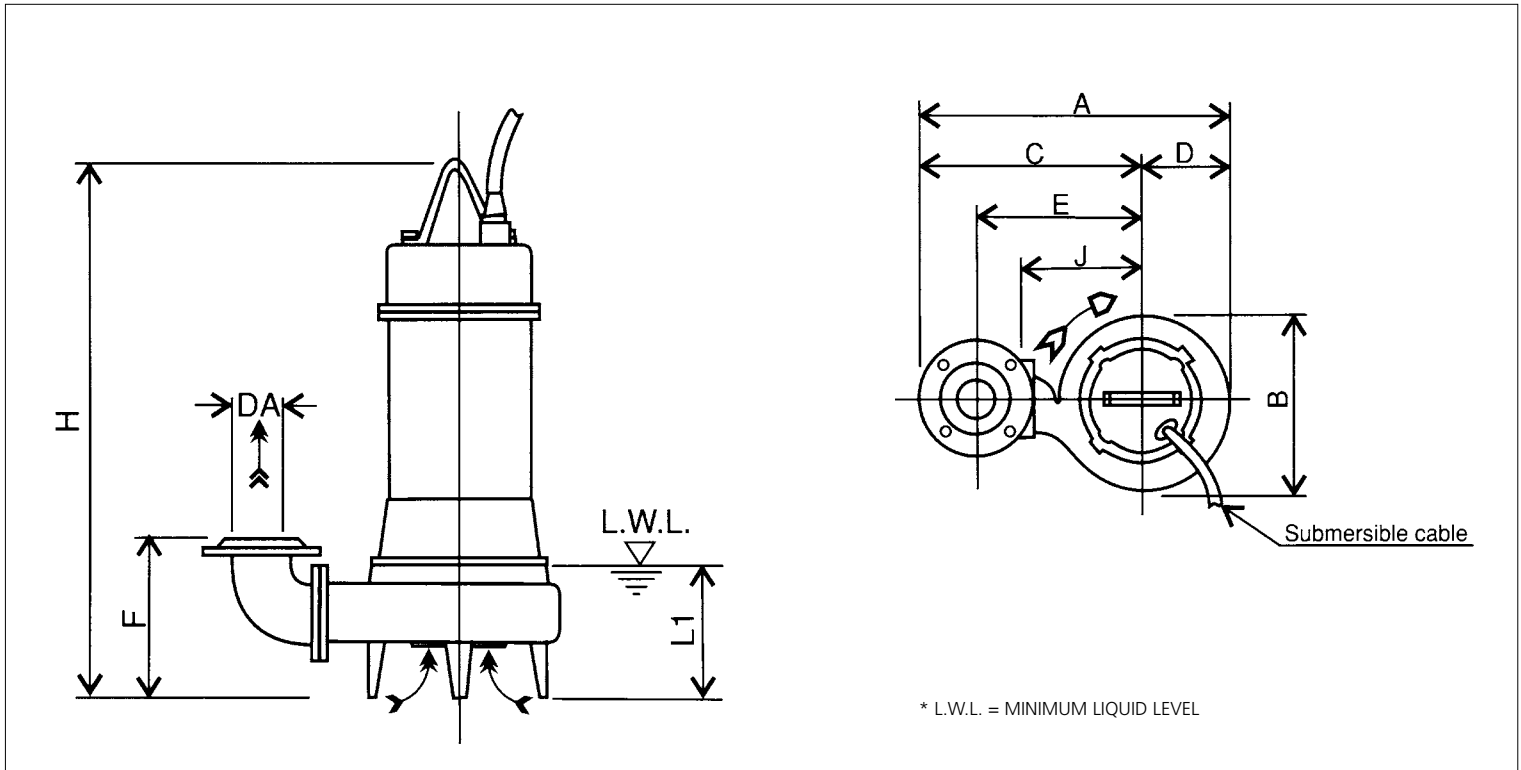
PERFORMANCES TABLE 65-80-100 DL WITH CUTTER

Model	P ₂		Q = Capacity															
	[kW]	[HP]	l/min 0	100	250	300	400	500	700	900	1000	1100	1200	1400	1600	2000	2400	2500
			m ³ /h 0	6	15	18	24	30	42	54	60	66	72	84	96	120	144	150
H = Total manometric head in meters																		
65DL51.5W/C	1,5	2	14,8	13,7	12,0	11,4	10,0	8,5	-	-	-	-	-	-	-	-	-	-
80DL51.5W/C	1,5	2	12,7	-	10,7	10,3	9,3	8,2	5,9	3,4	-	-	-	-	-	-	-	-
80DL52.2W/C	2,2	3	15,2	-	-	12,9	12,0	11,1	9,0	6,8	5,7	4,6	-	-	-	-	-	-
80DL53.7W/C	3,7	5	18,5	-	-	-	17,0	16,4	14,9	13,4	12,6	11,6	10,4	-	-	-	-	-
100DL53.7W/C	3,7	5	16,1	-	-	-	-	14,1	13,1	12,2	11,7	11,2	10,6	9,2	7,6	4,0	-	-
100DLB55.5W/C	5,5	7,5	16,9	-	-	-	-	-	15,7	15,1	14,8	14,5	14,1	13,3	12,3	10,1	7,5	6,8
100DLB57.5W/C	7,5	10	22,5	-	-	-	-	-	20,2	19,4	19,0	18,6	18,1	17,2	16,1	13,7	10,7	-

DL - DL/WC

SUBMERSIBLE SEWAGE PUMP

DIMENSIONS



SUBMERSIBLE SEWAGE PUMP

DIMENSIONS TABLE DL

Model	DA	[kW]	Dimensions [mm]									Weight [kg]	
			A	B	C	D	E	F	H	J	L1		
65DL51.5	65	1,5	497	291	353	144	265	200	576	200	140	52	
80DL51.5	80	1,5	524	292	378	146	285	220	597	210	165	55	
80DL52.2		2,2	542	308	388	154	295	220	654	220	165	67	
80DL53.7		3,7	567	328	403	164	310	220	687	235	165	75	
80DLC55.5		5,5	618	379	428	190	335	307	753	260	205	134	
80DLC57.5		7,5	648	399	448	200	355	305	751	280	205	148	
100DLC55.5		100	5,5	660	379	470	190	365	322	753	260	205	134
100DLC57.5	7,5		690	399	490	200	385	320	751	280	205	148	
100DL53.7	3,7		614	335	445	169	340	250	706	235	185	79	
100DLB55.5	5,5		646	369	460	186	355	323	768	250	205	123	
100DLB57.5	7,5		673	385	480	193	375	323	760	270	205	141	
100DL511	11		701	402	500	201	395	323	859	290	205	180	
100DL515	15		741	441	520	221	415	330	954	310	205	230	
100DL518.5	18,5		741	441	520	221	415	330	958	310	205	285	
150DL55.5	150		5,5	750	398	550	200	410	381	799	280	245	146
150DL57.5			7,5	780	418	570	210	430	377	784	300	245	158
150DL511		11	810	438	590	220	450	377	883	320	245	199	
150DL515		15	810	438	590	220	450	377	972	320	245	237	
150DL518.5		18,5	848	476	610	238	470	381	979	340	245	300	
150DL522		22	848	476	610	238	470	381	979	340	245	325	
150DL530		30	912	520	650	262	510	468	1284	360	486	350	
150DL537		37	912	520	650	262	510	468	1404	360	494	350	
150DL545		45	912	520	650	262	510	468	1404	360	494	350	
200DL55.5		200	5,5	832	430	615	217	450	414	826	300	285	160
200DL57.5			7,5	863	453	635	228	470	410	809	320	285	176
200DL511			11	863	453	635	228	470	410	908	320	285	212
200DL515	15		896	479	655	241	490	411	995	340	285	260	
200DL518.5	18,5		932	512	675	257	510	415	1001	360	285	305	
200DL522	22		932	512	675	257	510	415	1001	360	285	330	
200DL530	30		937	520	675	262	510	483	1284	360	486	350	
200DL537	37		937	520	675	262	510	483	1404	360	494	370	
200DL545	45		937	520	675	262	510	483	1404	360	494	370	
250DL57.5	250		7,5	969	525	700	269	500	622	904	370	400	260
250DL511		11	993	541	720	273	520	634	1000	390	400	320	
250DL515		15	1007	549	730	277	530	646	1086	400	400	380	
250DL518.5		18,5	1007	549	730	277	530	646	1089	400	400	420	
250DL522		22	1007	549	730	277	530	646	1089	400	400	440	
250DL530		30	1125	660	790	335	590	706	1336	460	538	458	
250DL537		37	1125	660	790	335	590	706	1475	460	565	522	
250DL545		45	1125	660	790	335	590	706	1475	460	565	540	
300DL511	300	11	1100	588	798	302	575	671	1050	420	450	365	
300DL515		15	1100	588	798	302	575	671	1131	420	450	395	
300DL518.5		18,5	1135	618	818	317	595	668	1131	440	450	440	
300DL522		22	1135	618	818	317	595	668	1131	440	450	465	
300DL530		30	1172	660	838	335	615	726	1336	460	538	458	
300DL537		37	1172	660	838	335	615	726	1475	460	565	522	
300DL545		45	1172	660	838	335	615	726	1475	460	565	540	

DIMENSIONS TABLE DL WITH CUTTER

Model	DA	[kW]	Dimensions [mm]									Weight [kg]
			A	B	C	D	E	F	H	J	L1	
65DL51.5W/C	65	1,5	497	291	353	144	265	200	576	200	140	52
80DL51.5W/C	80	1,5	524	292	378	146	285	220	597	210	165	55
80DL52.2W/C		2,2	542	308	388	154	295	220	654	220	165	67
80DL53.7W/C		3,7	567	328	403	164	310	220	687	235	165	75
100DL53.7W/C		3,7	614	335	445	169	340	250	706	235	185	79
100DLB55.5W/C	100	5,5	646	369	460	186	355	323	768	250	205	123
100DLB57.5W/C		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	~1450 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	SiC / SiC / NBR
		Motor side	Ceramic / Carbon / NBR
MOTOR			
Type	Air-filled dry submersible three phase		
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

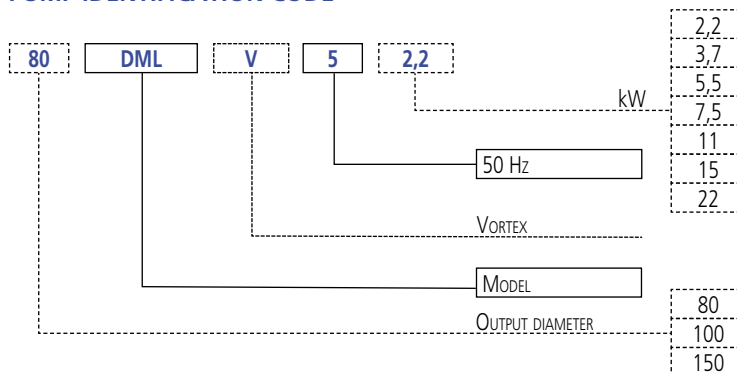
Features:

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



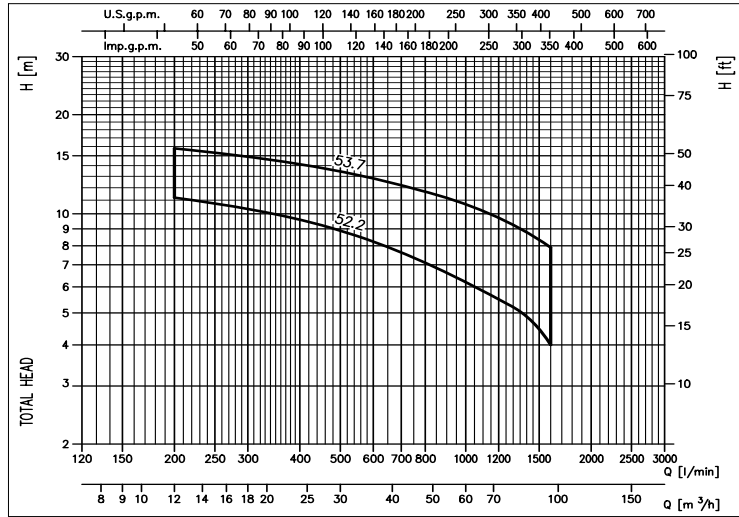


DML - DMLV

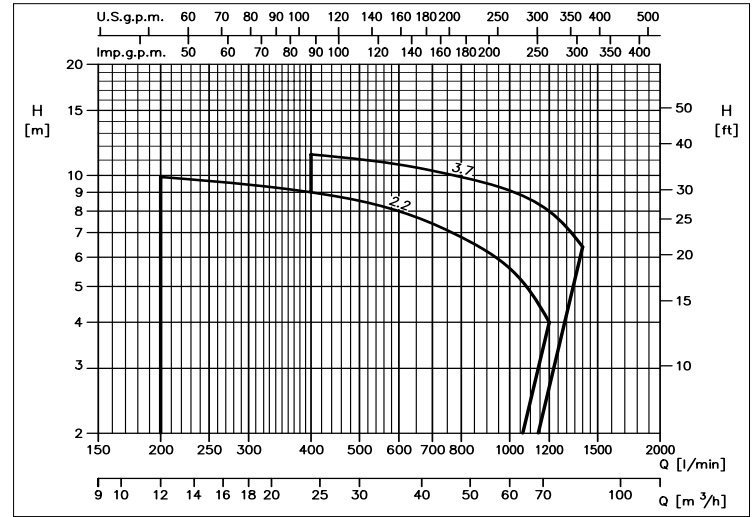
SUBMERSIBLE SEWAGE PUMP

PERFORMANCE CHART

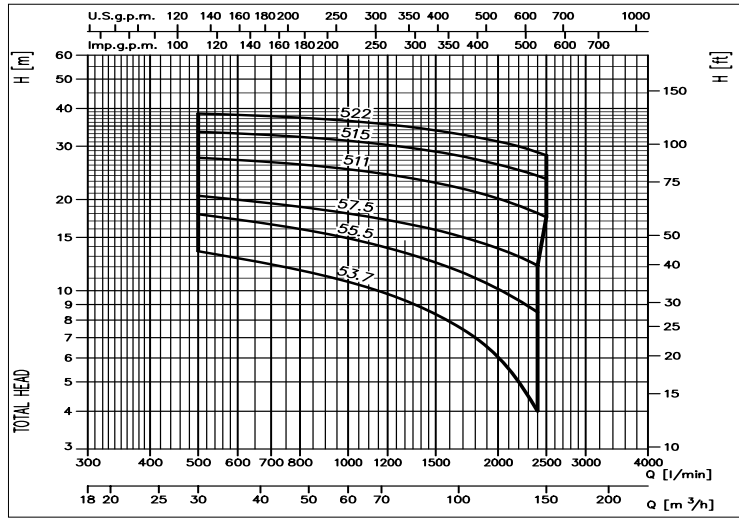
80DML



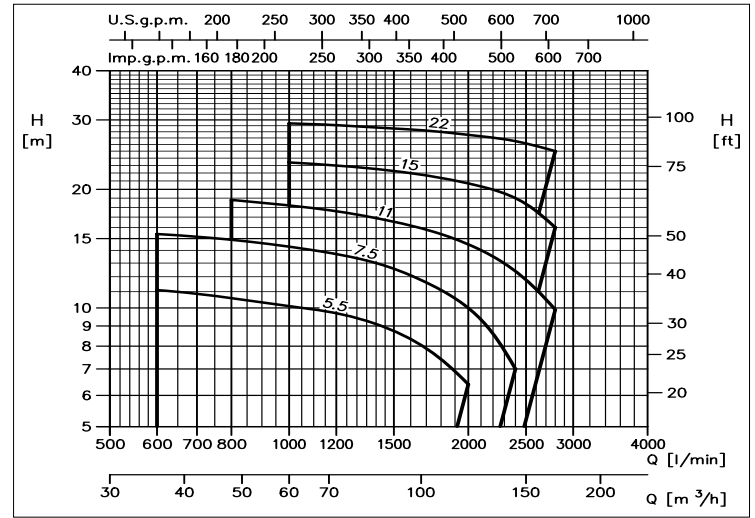
80DMLV



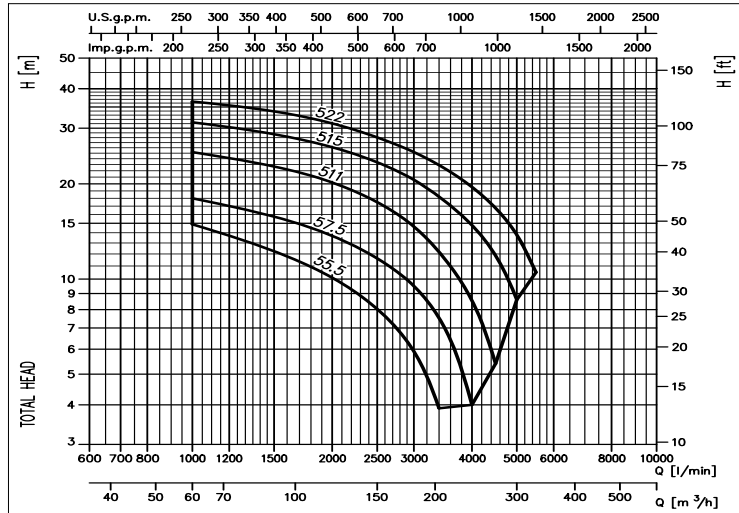
100DML



100DMLV



150DML



DML - DMLV

SUBMERSIBLE SEWAGE PUMP

PERFORMANCES TABLE 80DML

Model	P ₂		Q = Capacity								
			[l/min] 0	200	400	600	800	1000	1200	1400	1600
	[kW]	[HP]	[m ³ /h] 0	12	24	36	48	60	72	84	96
H = Total manometric head in meters											
80DML52.2	2,2	3	13,1	11,2	9,6	8,2	7,1	6,2	5,5	4,9	4,0
80DML53.7	3,7	5	17,9	15,8	14,2	12,8	11,7	10,7	9,7	8,8	7,9

PERFORMANCES TABLE 100DML

Model	P ₂		Q = Capacity								
			[l/min] 0	500	1000	1300	1600	1900	2200	2400	2500
	[kW]	[HP]	[m ³ /h] 0	30	60	78	96	114	132	144	150
H = Total manometric head in meters											
100DML53.7	3,7	5	17,9	13,5	10,7	9,3	7,9	6,5	5,0	4,0	-
100DML55.5	5,5	7,5	22,0	17,9	14,9	13,4	11,9	10,6	9,3	8,5	-
100DML57.5	7,5	10	25,3	20,6	18,0	16,7	15,5	14,2	13,0	12,1	-
100DML511	11	15	30,3	27,5	25,2	23,7	22,2	20,7	19,1	18,0	17,5
100DML515	15	20	35,0	33,5	31,3	29,8	28,3	26,7	25,1	24,0	23,4
100DML522	22	30	40,0	38,5	36,4	34,9	33,3	31,7	30,0	28,7	28,0

PERFORMANCES TABLE 150DML

Model	P ₂		Q = Capacity									
			[l/min] 0	1000	2000	2500	3000	3400	4000	4500	5000	5500
	[kW]	[HP]	[m ³ /h] 0	60	120	150	180	204	240	270	300	330
H = Total manometric head in meters												
150DML55.5	5,5	7,5	22,0	14,9	10,1	8,0	5,9	3,9	-	-	-	-
150DML57.5	7,5	10	25,3	18,0	13,7	11,6	9,5	7,5	4,0	-	-	-
150DML511	11	15	30,3	25,2	20,2	17,5	14,7	12,2	8,6	5,4	-	-
150DML515	15	20	35,0	31,3	26,1	23,4	20,6	18,2	14,8	11,9	8,6	-
150DML522	22	30	40,0	36,4	31,1	28,0	25,2	22,9	19,5	16,8	13,8	10,5

PERFORMANCES TABLE 80DMLV

Model	P ₂		Q = Capacity							
			[l/min] 0	200	400	600	800	1000	1200	1400
	[kW]	[HP]	[m ³ /h] 0	12	24	36	48	60	72	84
H = Total manometric head in meters										
80DMLV52.2	2,2	3	10,7	9,9	9,0	8,0	6,8	5,6	4,0	-
80DMLV53.7	3,7	5	12,8	12,0	11,4	10,7	9,9	9,1	8,0	6,4

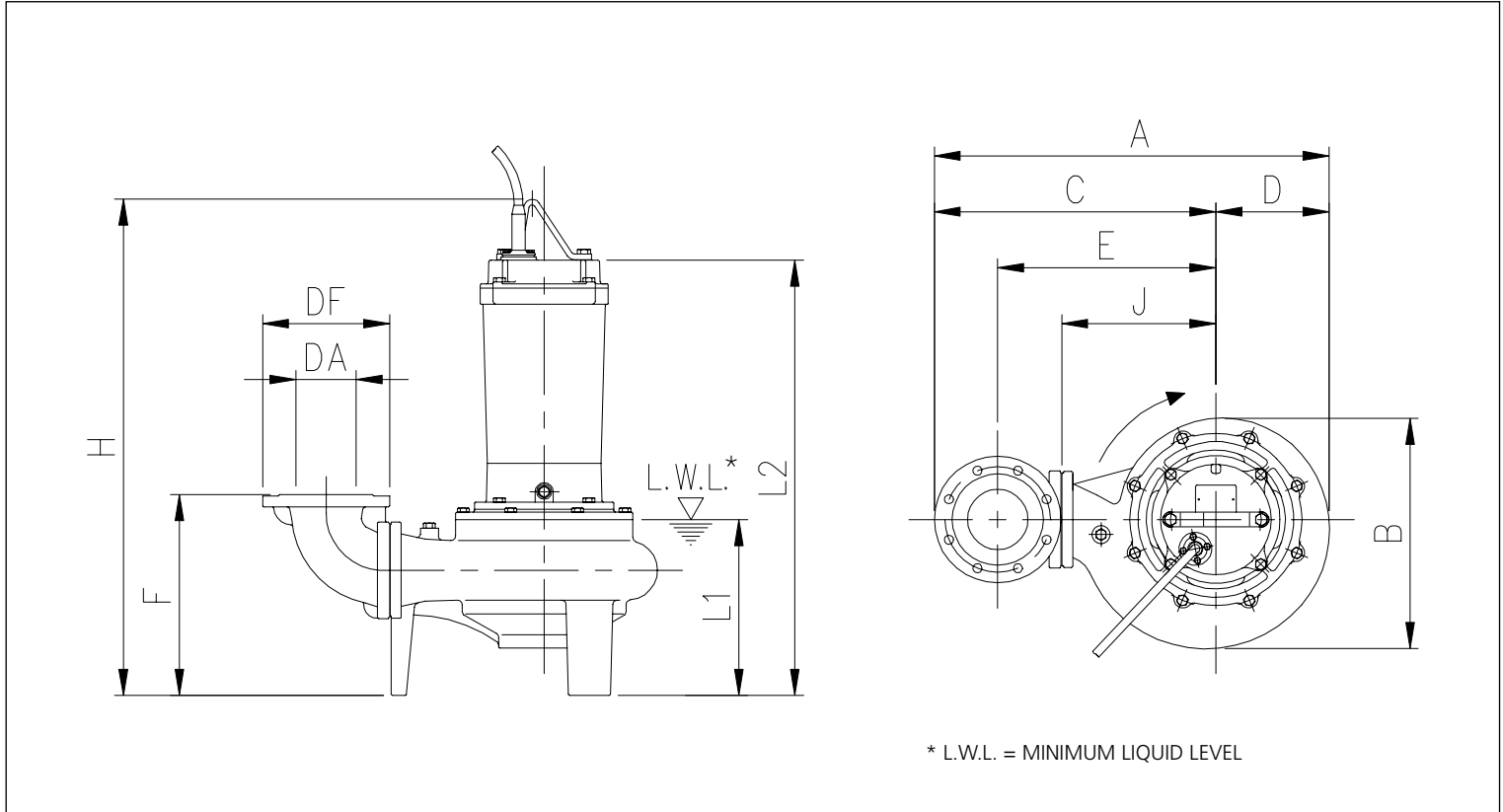
PERFORMANCES TABLE 100DMLV

Model	P ₂		Q = Capacity									
			[l/min] 0	600	800	1000	1200	1400	1700	2000	2400	2800
	[kW]	[HP]	[m ³ /h] 0	36	48	60	72	84	102	120	144	168
H = Total manometric head in meters												
100DMLV5,5	5,5	7,5	13,2	11,1	10,6	10,1	9,7	9,1	7,9	6,4	-	-
100DMLV57,5	7,5	10	16,8	15,4	14,9	14,3	13,7	13,0	11,6	10,0	7,0	-
100DMLV511	11	15	20,6	-	18,8	18,2	17,6	16,9	15,8	14,5	12,4	9,9
100DMLV515	15	20	24,9	-	-	23,4	23,0	22,5	21,7	20,7	19,0	16,0
100DMLV522	22	30	32,1	-	-	29,4	29,1	28,7	28,2	27,5	26,5	25,0

DML - DMLV

SUBMERSIBLE SEWAGE PUMP

DIMENSIONS DML - DMLV

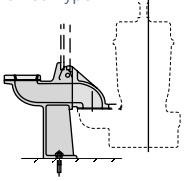
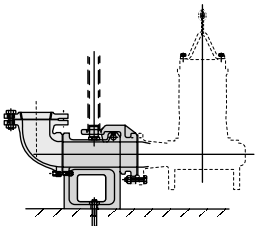
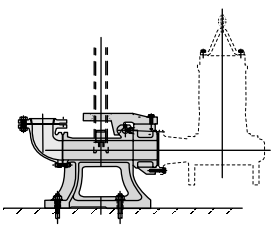
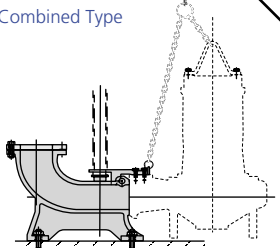


DIMENSIONS TABLE DML

Model	DA	[kW]	DF	Dimensions [mm]									Weight [kg]	
				A	B	C	D	E	F	H	J	L1		L2
80DML52.2	80	2,2	200	542	320	385	157	285	308	668	210	279	547	80
80DML53.7	80	3,7	200	542	320	385	157	285	308	727	210	279	627	87
100DML53.7	100	3,7	220	582	320	425	157	315	313	727	210	279	627	89
100DML55.5	100	5,5	220	658	381	470	188	360	339	824	255	310	724	121
100DML57.5	100	7,5	220	658	381	470	188	360	339	824	255	310	724	125
100DML511	100	11	220	751	455	530	221	420	355	938	315	329	778	160
100DML515	100	15	220	751	455	530	221	420	355	938	315	329	778	166
100DML522	100	22	220	795	497	550	245	440	358	1021	335	342	841	226
150DML55.5	150	5,5	285	715,5	381	527,5	188	385	369	824	255	310	724	127
150DML57.5	150	7,5	285	715,5	381	527,5	188	385	369	824	255	310	724	132
150DML511	150	11	285	808,5	455	587,5	221	445	385	938	315	329	778	166
150DML515	150	15	285	808,5	455	587,5	221	445	385	938	315	329	778	172
150DML522	150	22	285	852,5	497	607,5	245	465	388	1021	335	342	841	232

DIMENSIONS TABLE DMLV

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

LS Combined Type 	QDC Model	Size				Applicable Model				
		Discharge Flange Ø	Discharge elbow Ø	QDC Body Ø	Volute Flange Ø	DS	DVS	DLW/C	DL	DML
	LS50	50	-	50	50	50DS 1,5 kW	50DVS 1,5 kW			
LM Separate Type 	LM50	50	50x50	50	50	50DS 2,2÷3,7 kW				
	LM65	65	65x65	65	65	65DS 1,5 kW	65DVS 1,5÷3,7 kW	65DLW/C 1,5 kW	65DL 1,5 kW	
		80	65x80	65	65		80DVS 1,5÷3,7 kW			
	LM80	80	80x80	80	80	80DS 2,2÷3,7 kW		80DLW/C 1,5÷3,7 kW	80DL 1,5÷3,7 kW	80&100DML 2,2÷3,7 kW
LL Separate Type 	LL80	80	80x80	80	80				80DLC 5,5÷7,5 kW	
		100	80x100	80	80				100DLC 5,5÷7,5 kW	
LL Combined Type 	LL100	100	100x100	100	100	100DS 5,5÷7,5 kW		100DLW/C 3,7÷7,5 kW	100DL&DLB 3,7÷18,5 kW	100DML 5,5÷22 kW
		150	100x150	100	100					150DML 5,5÷22 kW
	LL125	150	125x150	125	125				150DL 5,5÷22 kW	
	LL150	150	150x150	150	150				150DL 30÷45 kW	
		200	150x200	150	150				200DL 5,5÷45 kW	
	LL250	250	-	200x250	200				250DL 7,5÷22 kW	
	LL300	250	(Reducer) 300x250	250x300	250				250DL 30÷45 kW	
		300	-	250x300	250				300DL 11÷45 kW	

Note: The discharge elbow & companion flange are not supplied with the QDC. These items are standard accessories supplied with the pump (except for DS and DVS 1.5 kW and DL 30÷45 kW), and they are used with the QDC.
With LS50 and LL300 the discharge elbow is not necessary, because it is included in the QDC body.

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