



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

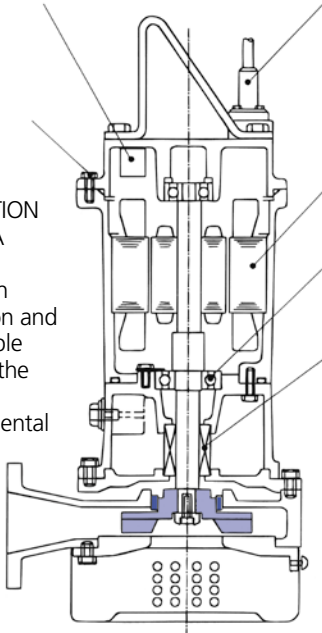
ALL FASTENERS
made of
STAINLESS STEEL

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

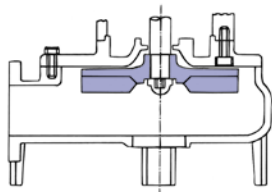
Air filled, high efficiency copper wound motors with class F insulation

BALL BEARINGS are permanently lubricated high Temperatura type

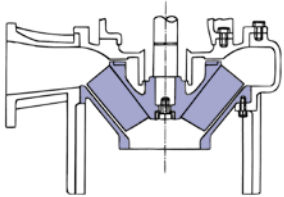
MECHANICAL SEALS
Oil lubricated, double mechanical seals with hard faces provide reliable shaft sealing



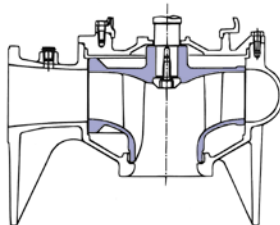
MODEL DS



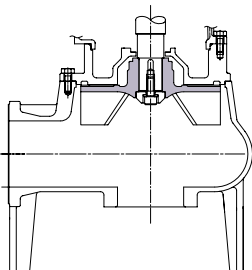
MODEL DVS



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

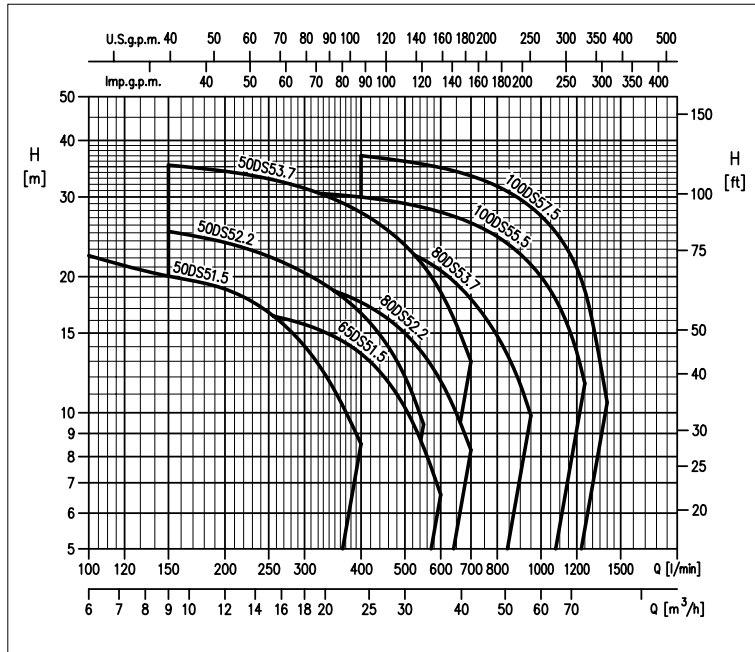


SPECIFICATIONS

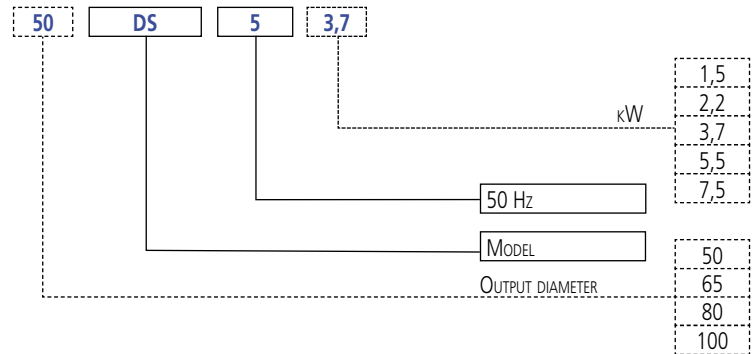
PUMP		
Liquid Handled	Type of liquid	Sump
	Temperature	0-40°C
	Pump size: Max solid diameter	5 (50DS); 6 (65DS); 7 (80DS); 8 (100DS)
Maximum Submersible depth of the pump	4 m (1,5 kW); 8 m (2,2-7,5 kW)	
Synchronous Speed	~2850 min ⁻¹	
Construction	Mechanical Seal	Double mechanical seal
	Impeller	Semi-open
	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:

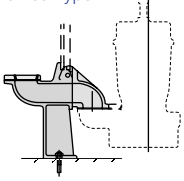
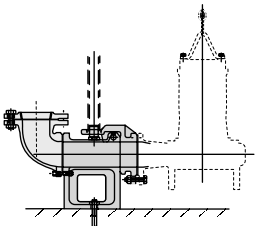
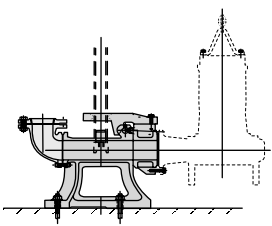
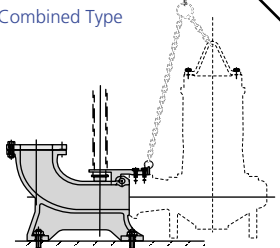
- Efficient Semi-Open Impeller
- Strainer prevents blockages

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	-

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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