



Submersible Dewatering Pump

Type EUL

The EUL series is a light weight version manufactured from corrosion resistant aluminium alloy. Performance data is identical to EUC series.

APPLICATIONS

- Civil engineering and construction
- Tunnel and caisson dewatering
- Narrow trenches
- Manholes
- Pit and sump dewatering
- Irrigation, etc.

FEATURES

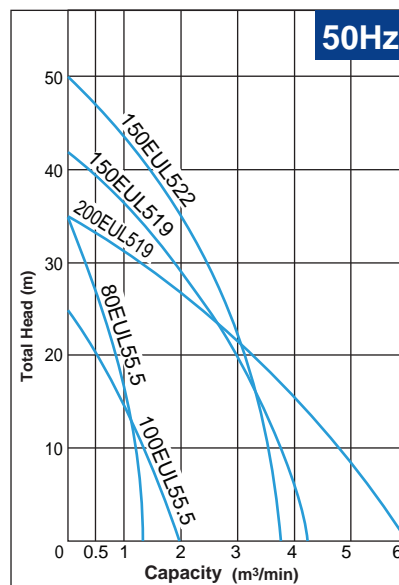
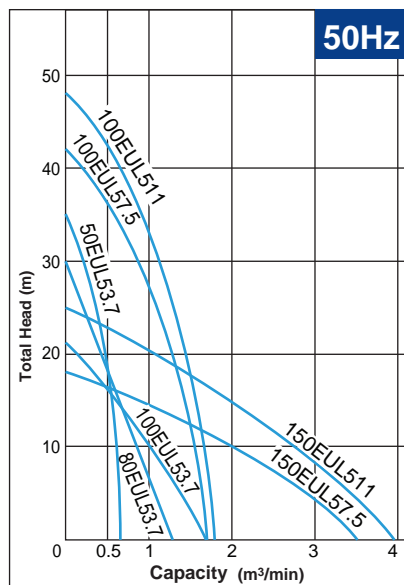
- Suitable for deep well operation due to complete cylindrical form and small pump diameter.
- Motor cooled by pumping fluid ensures low water level operation.
- By employing high resistance material against wear, ensures superior durability performance.
- Built-in motor protector prevents motor from burn-out by excessive load/restraint/open phase operation.

SPECIFICATIONS

- Discharge Dia. : 50 - 200 mm
- Total Head : 10 - 35 m
- Capacity : 0.2 - 4.0 m³/min
- Motor Output : 3.7 - 22kW



PERFORMANCE CURVE



Model	Nominal diameter (mm)	Output (kW)	Ph/Hz/V	Total Head (m)	Capacity (m³/min)	Outer dimension (mm)		Weight (kg)
50Hz						Max. diameter	Height	
50EUL53.7	50	3.7	3Ph/50Hz/ 380-415Hz	30	0.2	280	689	51
80EUL53.7	80			20	0.5			49
100EUL53.7	100			10	1.0			
80EUL55.5	80	28		0.5				
100EUL55.5	100	15		1.0				
100EUL57.5	100	7.5		27	1.0	370	773	82
150EUL57.5	150			10	2.0	370	825	79
100EUL511	100	11		35	1.0	370	740	87
150EUL511	150			15	2.0		792	84
150EUL519	150	19		30	2.0	455	900	167
200EUL519	200		15	4.0	455	930	157	
150EUL522	150		22	35	2.0	455	900	170

SECTIONAL VIEW

Motor Protection

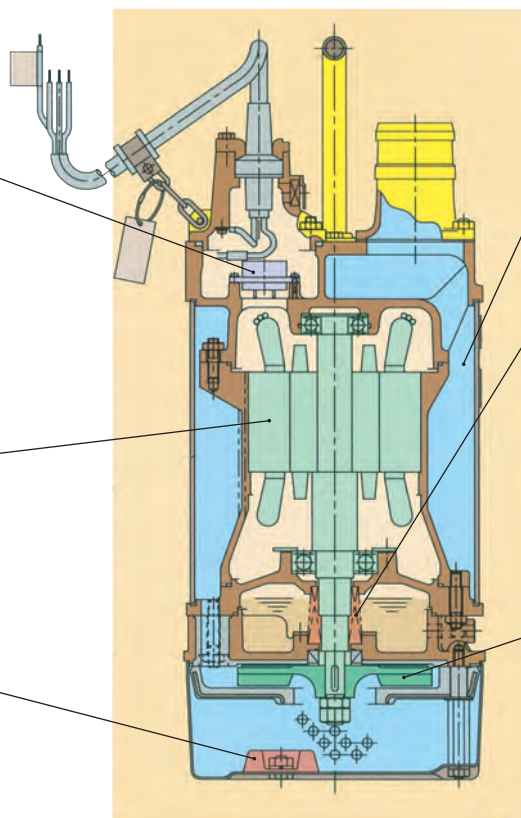
An "Auto-Cut" recycling thermal protector is embedded at the neutral point of the motor winding circuit to protect against thermal overload (Other than 200 to 230 volt units above 19kW are not fitted with "Auto-Cut"). Original switch boxes for 400 volt class motors are available at extra cost.

Motor

A high efficiency motor with hightorque and class B rated insulation is a feature of the range. Maximum water temperature is 40 Deg. C. For higher operating temperatures, consult EBARA.

Sacrificial Anode

To decrease the risk of galvanic corrosion, each model is provided with aluminium alloy anode. For severely corrosive service conditions such as sea water, consult EBARA.



Motor Cooling

Water jacketed slim line cylindrical design provides efficient motor cooling by circulation of pumped water.

Shaft Seal

A new design pressure resistant Mechanical Seal (980kpa, 142psi) is incorporated. This twin type seals cooled and lubricated in an oil bath which guarantees reliable sealing and service for long durations of heavy duty use. The seal is effective to 70 meter submergence, however, for normal operation 30 meter maximum submergence is recommended. For greater than 30 meter submergence or for sea water or brackish water operation, consult EBARA.

Durability

The impeller is made from high chrome alloy (except 150EUL 519 and 150EUL 522) and is precisely balanced. For resistance to abrasive particles most models feature rubber coated casing and casing cover.

SPECIFICATIONS

		kW	Size 50 3.7kW	Size 80 3.7kW	Size 100 3.7kW	Size 80 5.5kW	Size 100 5.5kW	Size 100 7.5kW	Size 150 7.5kW	Size 100 11kW	Size 150 11kW	Size 150 19kW	Size 200 19kW	Size 150 22kW	
Liquid handled	Liquid (Note 1)		Spring water from ground, Earth & sand water												
	Diameter of solid matter		9mm and below		12mm and below	9mm and below	12mm and below	8mm and below	20mm and below	8mm and below	20mm and below				
	Density of earth/sand		2% and below (volume)												
	Liquid temperature		0 - 40°C												
	pH		6.5 - 8.0												
Max. pump submergence			30m												
Pump	Construction	Impeller	Semi-open					Closed	Semi-open	Closed	Semi-open	Closed	Semi-open	Closed	
		Shaft seal		Double mechanical seal											
		Bearings		Sealed ball bearings											
	Material	Impeller		High chrome cast iron									FCD500	High chrome cast iron	FCD500
		Casing		FCD500	Synthetic rubber/SPCC				FCD500	Synthetic rubber/SPCC	FCD500	Synthetic rubber/SPCC	FCD500	Synthetic rubber/SPCC	FCD500
		Intermediate casing		FC200/Synthetic rubber											
		Shaft seal (Mech. seal)	Motor side	Ceramic/Copper alloy											
			Liquid side	SiC/SiC											
			Elastomer	NBR											
		Sealed liquid at shaft seal		Turbine oil VG32											
Motor (Note 2) (Note 3)	Type, Pole, Insulation class		Dry type, submersible, 2 pole, class B							Dry type, submersible, 2pole, class E		Dry type, submersible, 2pole, class B			
	Phase, Voltage		Three phase, 380-415V												
	Built-in ptotector		Auto-cut										Not applicable		
	Material	Frame	AC4C-F												
		Shaft	SUS420J2												
		Cable	2PNCT					2PNCT (with cloth reinforcement)							
Cooling method		Inner type													
Type of connection			Hose coupling or center flange												

Note 1: Do not apply for oil, sea water, organic solvent etc. Pump may be damaged, and may cause electric leakage and electric shock.

Note 2: Ask Ebara about inverter operation.

Note 3: Voltage fluctuation $360 < \text{VOL} \leq 420$, Frequency fluctuation $\pm 1\%$ or less, Simultaneous fluctuation of voltage and frequency 10% or less for sum of absolute value of both.

However, in any case, motor characteristics and temperature rise etc. shall not be in accordance with rated value.

Remarks : Do not install under environment of corrosive gas or volatile gas or steam.

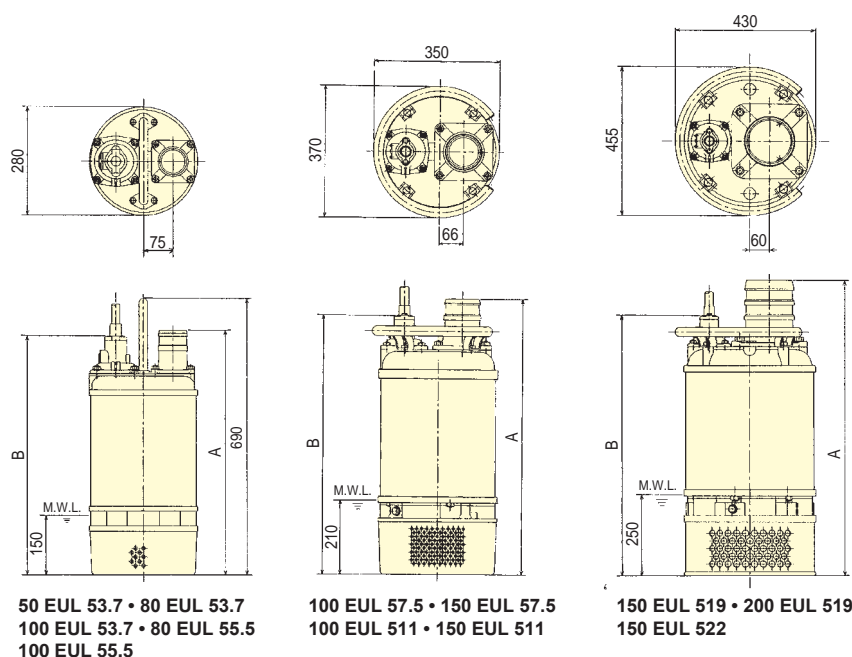
■ Standard accessory

1 pc. of Hose coupling or center flange (fixed with pump)

10m of Submersible cable (fixed with pump)

DIMENSION

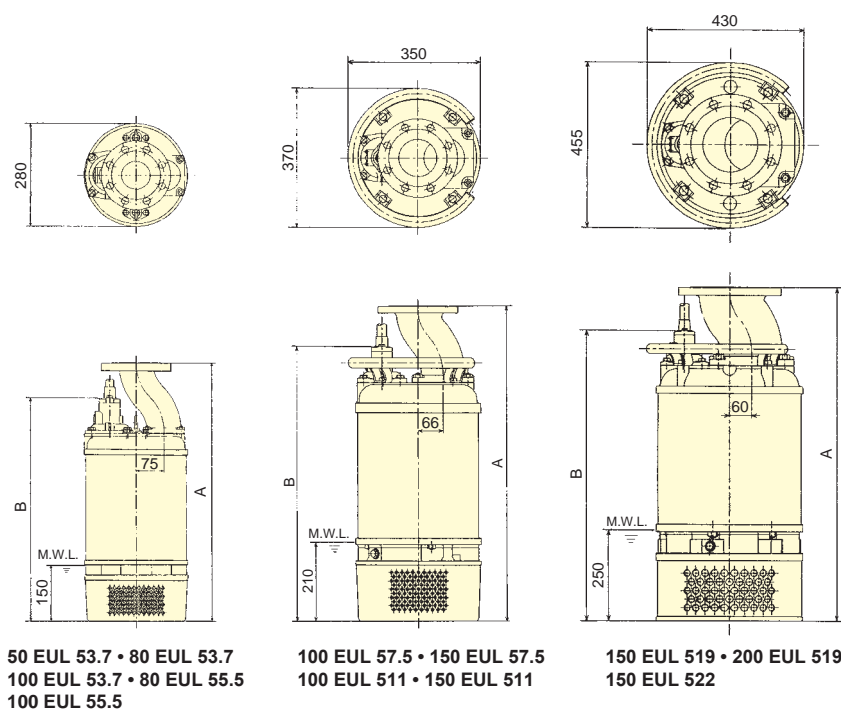
Hose-coupling type



unit : mm

Model	A	B
50EUL53.7	585	595
80EUL53.7	610	595
100EUL53.7	610	595
80EUL55.5	610	595
100EUL55.5	610	595
100EUL57.5	775	725
150EUL57.5	825	725
100EUL511	740	690
150EUL511	790	690
150EUL519	900	795
200EUL519	930	795
150EUL522	900	795

Center-flange type



unit : mm

Model	A	B
50EUL53.7	680	595
80EUL53.7	690	595
100EUL53.7	700	595
80EUL55.5	690	595
100EUL55.5	700	595
100EUL57.5	835	725
150EUL57.5	860	725
100EUL511	800	690
150EUL511	825	690
150EUL519	910	795
200EUL519	950	795
150EUL522	910	795

- i No. of holes of center-flange
- 2 inch..... 4
- 3 to 6 inches..... 8
- 8 inch..... 12

* Dimensional details are provided for reference only.

* All specifications are subject to change without prior notice.



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