



## **High-Head Submersible Dewatering Pump**

**Type EUA**

### **APPLICATIONS**

- Drainage at site by deep well method
- Drainage at civil engineering work and building construction site
- Drainage from underground pit and tunnel pit
- Drainage at narrow space

### **FEATURES**

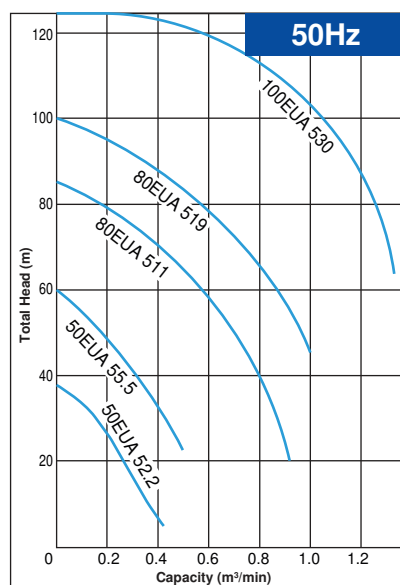
- By employing 2 stages impeller design, much higher head compared with other pumps with same motor kW.
- Due to complete cylindrical form and small diameter, best for drainage by deep well method.
- By employing motor (19kW and above) with leakage detector, failure of shaft seal can be immediately detected.
- Built-in motor protector prevents motor from burn-out by excessive load/restraint/open phase operation.

### **SPECIFICATIONS**

- Discharge Dia. : 50 - 100 mm
- Total Head : 26 - 105 m
- Capacity : 0.16 - 1 m<sup>3</sup>/min
- Motor Output : 2.2 - 30kW



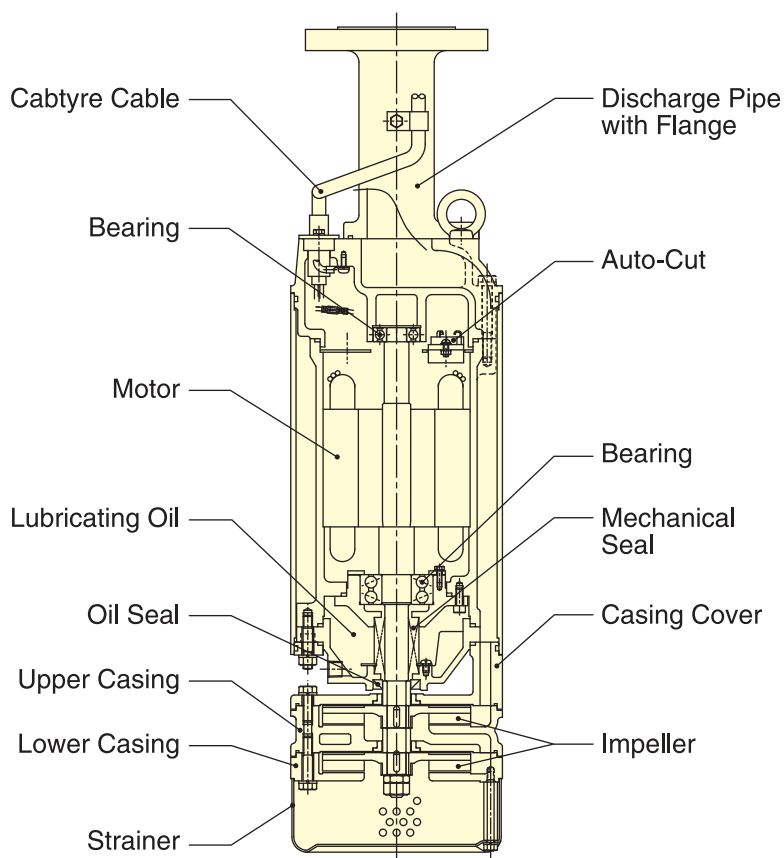
## PERFORMANCE CURVE



Model	Nominal diameter (mm)	Output (kW)	Ph/Hz/V	Total Head (m)	Capacity (m³/min)	Max. Head (m)	Outer dimension (mm)		Weight (kg)
							Max. diameter	Height	
50EUA52.2	50	2.2	3Ph/50Hz/ 380-415V	26	0.2	38	180	722	45
50EUA55.5	50	5.5		45	0.3	60	250	830	100
80EUA511	80	11		65	0.5	85	280	931	145
80EUA519	80	19		85	0.5	100	330	1160	260
100EUA530	100	30		105	1.0	125	420	1240	420

## SECTIONAL VIEW

### 50EUA52.2



### MOTOR PROTECTOR

Thermal protector is provided with the pump to secure the protection of the motor against temperature rise due to clogging of impeller, over-load, dry-running, etc. As for the models 80EUA519 and 100EUA530, Infiltrative Water Detector (WD) is also built-in these models. In combination with external pump operating panel\*, these models assure perfect and safety-minded motor protection.\*The external pump operating panel is available at extra cost upon request.

### SHAFT SEAL

The twin Mechanical Seals cooled and lubricated in the oil bath system ensure reliable effect and steady service at heavy-duty work sites for a long period of time.

### IMPELLER & CASING

The impeller is precisely balanced and abrasion-resistant. Together with the hydromechanically well-designed volute casing, the impeller will give an optimum function at the work-sites.

### NOTE:

- 1) As to discharge, either hose or flange connection is available upon request.
- 2) When still higher delivery head is required, two or three pumps can be connected in tandem with a little arrangement.

## SPECIFICATIONS

kW			Size 50, 5.5kW	Size 80, 11kW	Size 80, 19kW	Size 100, 30kW	
Item							
Liquid handled	Liquid (Note 1)		Spring water from ground, Earth & sand water				
	Diameter of solid matter		4mm and below	8mm and below			
	Density of earth/sand		2% and below (volume)				
	Liquid temperature		0 - 40℃				
	pH		6.5 - 8.0				
Max. pump submergence			30m				
Pump	Construction	Impeller	Closed				
		Shaft seal	Double mechanical seal				
		Bearings	Angular ball bearings				
	Material	Impeller	High chrome cast iron				
		Casing	FC200	FCD500			
		Intermediate casing	FC200			FC250	
		Shaft seal (Mech. seal)	Motor side	Ceramic/Copper alloy		SiC/Carbon	SUS/Carbon
			Liquid side	SiC/SiC			Tungsten carbide/ Tungsten carbide
			Elastomer	NBR			
		Sealed liquid at shaft seal	Turbine oil VG32				
Motor (Note 2) (Note 3)	Type, Pole, Insulation class		Dry type, submersible, 2pole, class B		Dry type, submersible, 2pole, class F		
	Phase, Voltage		Three phase, 380-415V				
	Built-in protector		Auto-cut		Leakage detector + Auto-cut	Leakage detector + Miniature thermal detector	
	Material	Frame	FC200				
		Shaft	SUS420J2				
		Cable	2PNCT	2PNCT (with cloth reinforcement)			
	Cooling method		Inner type				
	Type of connection		Flange or Hose coupling				

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  $360 < VOL \leq 420$ , 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.

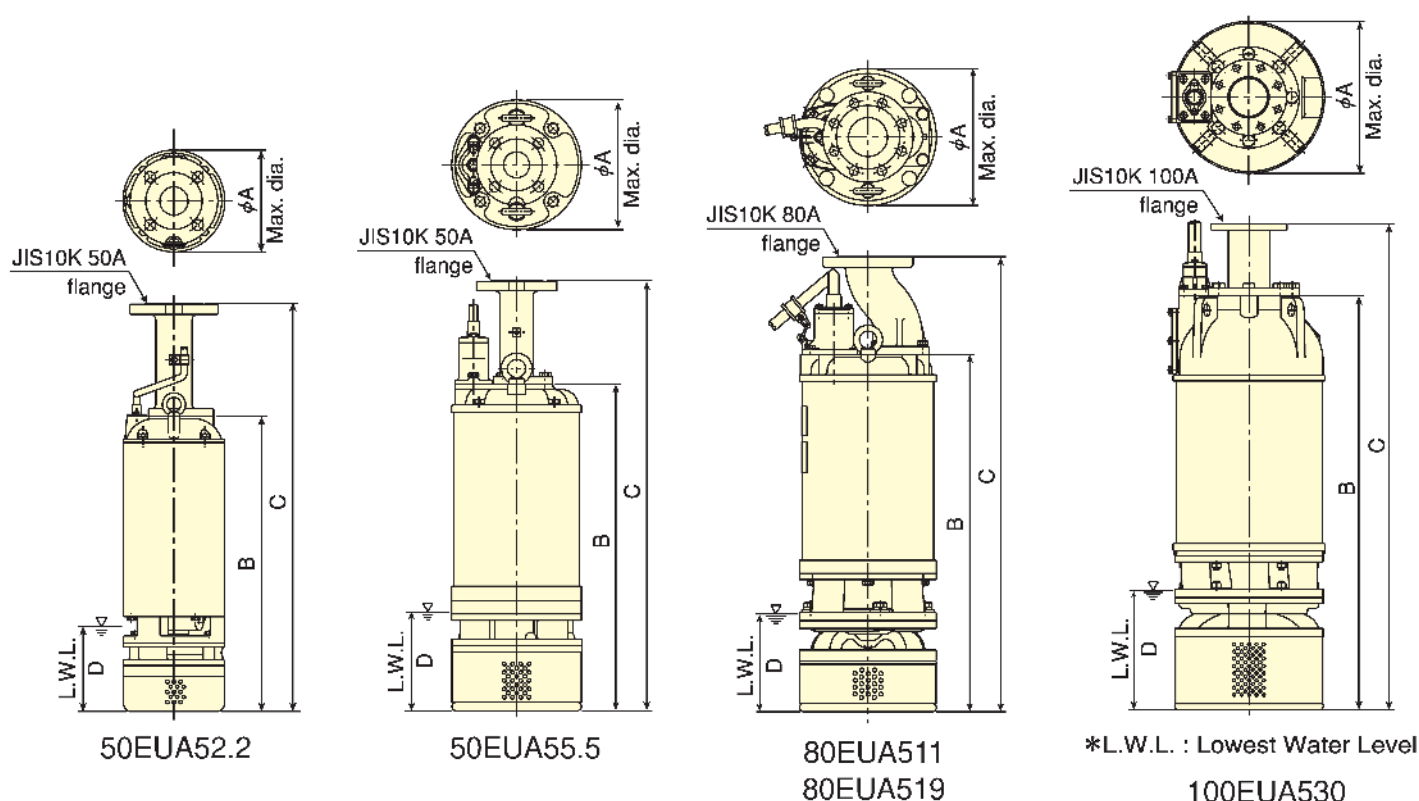
### ■ Standard accessory

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

15m of Submersible cable (fixed with pump) for 5.5kW

20m of Submersible cable (fixed with pump) for 11kW and above

## DIMENSION



unit : mm

Model	Pump			
	Ø A	B	C	D
50EUA52.2	Ø 180	522	722	150
50EUA55.5	Ø 250	629	830	190
80EUA511	Ø 280	731	931	200
80EUA519	Ø 330	960	1160	240
100EUA530	Ø 420	1146	1346	330

\* Dimensional details are provided for reference only.

\* All specifications are subject to change without prior notice.



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