EBARA PUMP

Quality since 1912

Submersible Dewatering Pump

Type EUK & EUKZ

APPLICATIONS

- Civil engineering and construction
- Drainage at civil engineering work and building construction site
- Drainage from manhole pit and tunnel pit
- Drainage of rain water and spring water from ground
- Drainage from civil engineering work at river

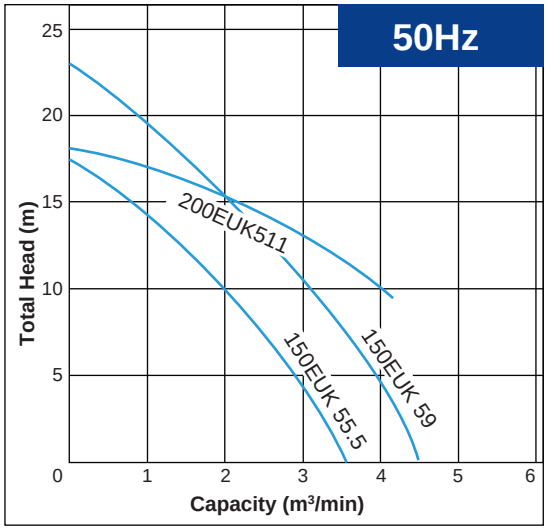
FEATURES

- By employing 4 pole driven motor, higher efficiency at large water flow and higher resistance against wear. Then, running cost and maintenance cost would be reduced.
- Simple and high efficiency design pursuing energy saving and easier maintenance which are required for the pump for civil engineering work.
- Built-in motor protector prevents motor from burn-out by excessive load/restraint/open phase operation.
- EUKZ (with stirring impeller) reduces sedimentation of earth and sand inside of suction strainer.

Quality • Value • Performance

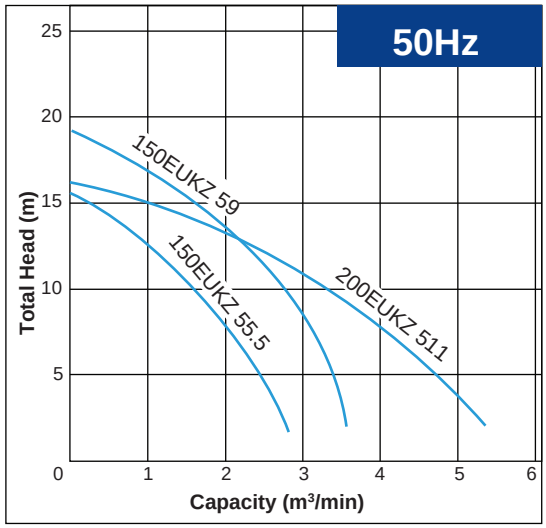
PERFORMANCE CURVE

EUK



Model	Nominal diameter (mm)	Output (kW)	Ph/Hz/V	Total Head (m)	Capacity (m³/min)	Outer dimension (mm)		Weight (kg)
50Hz						Max. diameter	Height	
150EUK55.5	150	5.5	3Ph/50Hz/ 380-415	10	2.0	460	750	124
150EUK59	150	9		16	2.0	541	810	180
200EUK511	200	11		10	4.0	545	850	200

EUKZ



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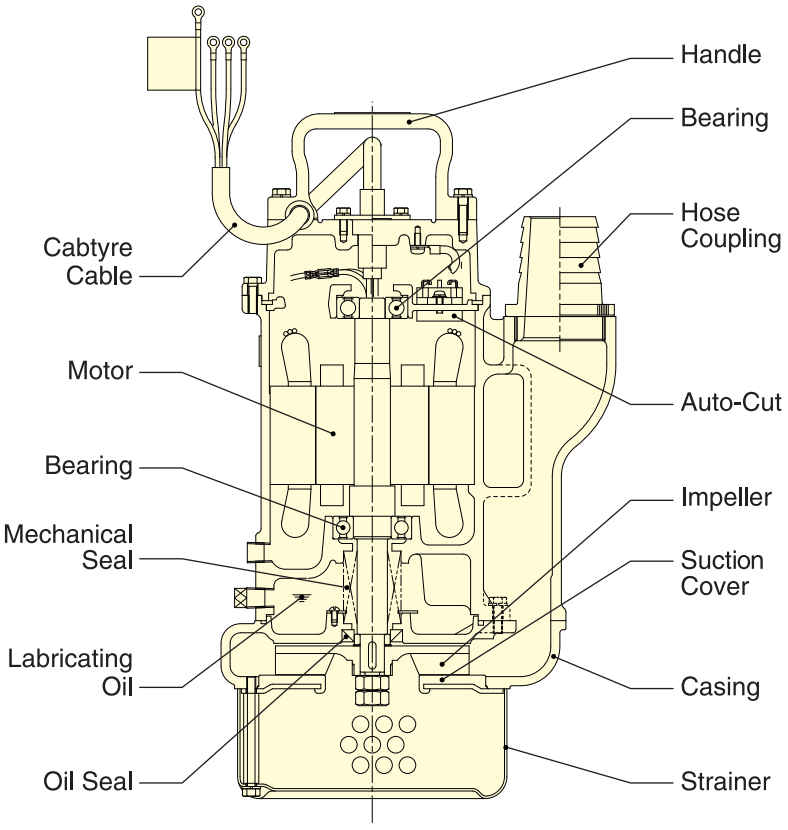
50Hz						Max. diameter	Height	
150EUKZ55.5	150	5.5	3Ph/50Hz/ 380-415	10	1.5	460	750	129
150EUKZ59	150	9		14	2.0	541	810	185
200EUKZ511	200	11		8	4.0	545	850	205

SPECIFICATIONS

Item \ kW				Size 150, 5.5kW	Size 150, 9kW	Size 200, 11kW
Liquid handled	Liquid (Note 1)			Spring water from ground, Earth & sand water		
	Diameter of solid matter			20mm 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		Semi-open		
		Shaft seal		Double mechanical seal		
		Bearings		Sealed ball bearings		
	Material	Impeller		FCD700		
		Casing		FC250		
		Stirring impeller (EUKZ)		High crome cast iron		
		Shaft seal (Mechanical seal)	Motor side	SiC/SiC		
			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, 4pole, class B	Dry type submersible, 4pole, class F	
	Phase, Voltage			Three phase, 380-415V		
	Built-in ptotector			Auto-cut		
	Material	Frame		FC200		
		Shaft		SUS420J1		
		Cable		2PNCT	2PNCT (with cloth for reinforcement)	
	Cooling method			Semi-inner type		
Type of connection				Hose coupling or 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: Inverter drive shall not be applicable for motor with auto-cut.
Note 3: Voltage fluctuation 360<VOL≤420, Frequency fluctuation +/- 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 tempreature rise etc. shall not be in accordance with rated value.
Remarks: 1. Do not install under environment of corrosive gas or volatile gas or steam.

SECTIONAL VIEW



MOTOR PROTECTOR

Auto-cut, recycling thermal protector is built-in to secure the protection of the motor against temperature rise due to clogging of the impeller, overload, dry-running, voltage drop, etc.

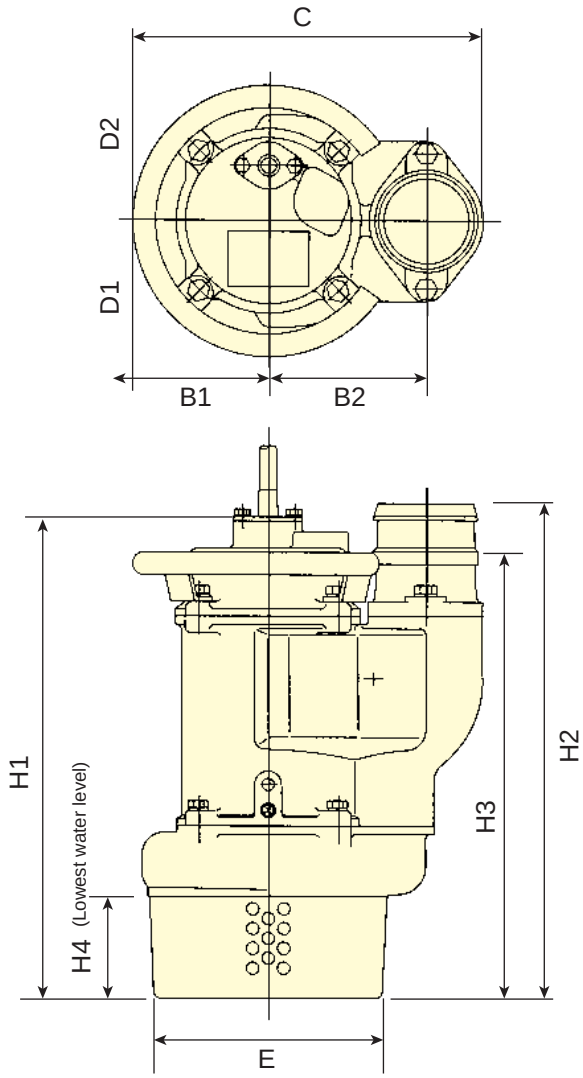
SHAFT SEAL

The double 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 with a large channel to ensure free of clogging. Together with the hydro-mechanically well designed volute casing, the impeller will function to the great extent of pumping efficiency. The suction cover is rubber-lined, excellent wearing resistant to abrasive particles in water.

DIMENSION



Unit : mm

Model	Output (kW)	Pump									
		B1	B2	C	D1	D2	H1	H2	H3	H4	E
150EUK55.5, 150EUKZ55.5	5.5	180	196	457	165	216	743	745	553	250	Ø 316
150EUK59, 150EUKZ59	9	247	213	541	216	264	788	806	613	300	Ø 400
200EUK511, 200EUKZ511	11	249	188	543	218	265	792	848	617	300	Ø 400

* Dimensional details are provided for reference only.
* All specifications are subject to change without prior notice.

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