



Submersible Powerful Sand Pump

Type ENH

Heavy duty dewatering pump with forced stirring device suitable for robust pumping action.

APPLICATIONS

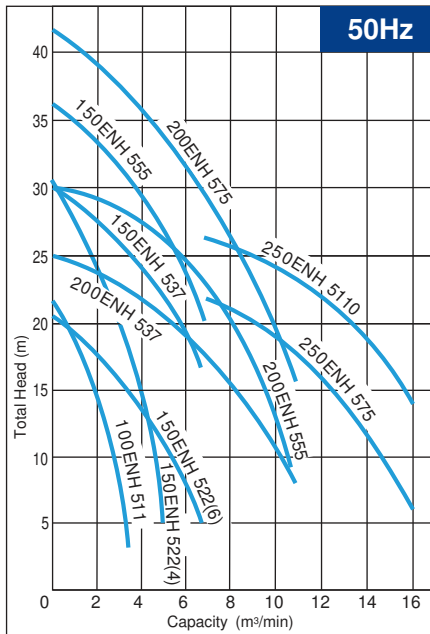
- Drainage at civil engineering work and building construction site
- Drainage transfer from excavation work of earth & sand
- Collection of sand and gravel
- Drainage of rolling scale pit in ironworks
- Dredge of sand and sludge from setting chamber

FEATURES

- By employing powerful stirring impeller and jet-flow device, earth & sand and sediment can be powerfully discharged.
- By employing multi-pole motor with high torque, powerful operation is possible.
- By employing cooling jacket (option), continuous operation at low water level is possible.
- By employing motor 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.



PERFORMANCE CURVE



Model	Nominal diameter (mm)	Output (kW)	Ph/Hz/V	Total Head (m)	Capacity (m³/min)	Outer dimension (mm)		Weight (kg)
						Max. diameter	Height	
100ENH511	100	11	3Ph/50Hz/ 380-415V	17	1.5	635	950	230
150ENH522(4)	150	22		18	3.2	770	1055	435
150ENH522(6)	150	22		15	3.2	845	1335	620
150ENH537	150	37		25	3.2	935	1610	740
150ENH555	150	55		31	3.2	935	1675	870
200ENH537	200	37		19	6.0	1055	1560	785
200ENH555	200	55		25	6.0	1055	1675	915
200ENH575	200	75		31	6.0	1195	1870	1800
250ENH575	250	75		15	12.0	1240	1995	1900
250ENH5110	250	110		22	12.0	1240	1995	1930

SPECIFICATIONS

Item		kW	Size 100 11kW	Size 150 22kW	Size 150 37kW	Size 150 55kW	Size 200 37kW	Size 200 55kW	Size 200 75kW	Size 250 75kW	Size 250 110kW			
Liquid handled	Liquid (Note 1)	Spring water from ground, Earth & sand water												
	Diameter of solid matter	35mm and below			60mm and below						80mm and below			
	Density of earth/sand	5% and below (volume)												
	Liquid temperature	0 - 40°C												
	pH	6.5 - 8.0												
Max. pump submergence		30m												
Pump	Construction	Impeller	Closed											
		Shaft seal	Double mechanical seal											
		Bearings	Sealed ball bearings					Angular ball bearings						
		Stirring method	Forced stirring impeller			Jet-flow	Forced stirring impeller	Jet-flow	Forced stirring impeller	Jet-flow				
	Material	Impeller	High chrome cast iron											
		Casing	FCD500											
		Intermediate casing	FCD500					High chrome cast iron						
		Stirring impeller	High chrome cast iron											
		(Mechanical seal)	Motor side	Ceramic/Copper alloy				SiC/SiC						
			Liquid side	Tungsten carbide/Tungsten carbide										
Shaft seal	Elastomer	NBR												
Sealed liquid at shaft seal		Turbine oil VG32												
Motor (Note 2) (Note 3)	Type, Pole, Insulation class		Submersible 4pole, class F				Dry type submersible, 6pole, class F				Dry type submersible 6 / 8pole, class F			
	Phase, Voltage		Three phase, 380-415V					Three phase, 380-415V	Three phase, 380-415V	Three phase, 380-415V				
	Built-in protector		Leakage detector + Miniature thermal protector											
	Material	Frame	FC200											
		Shaft	SUS420J2				SUS420J1				SUS420J2			
		Cable	2PNCT (with cloth reinforcement)											
Cooling method		External type												
Type of connection		JIS 10K 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<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 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 Companion flange (fixed with pump), 10m of Submersible cable (fixed with pump)

* Dimensional details are provided for reference only.

* All specifications are subject to change without prior notice.



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