

Internally cooled submersible pump for clear and drainage water.

BOZO ECD series pumps are special construction dewatering pumps which have exceptional durability to handling abrasive liquids. With the use of high chrome alloy impeller with stainless steel motor & pump body, these pumps are best suited for dewatering purposes in mines, quarries, STP's, backwaters, etc.,

■ **Mode of operation:**

BOZO ECD model is capable of permanent & portable operations.

■ **Design & Construction:**

BOZO ECD series are fully submersible integrated motor-pump unit consisting of the following.

■ **Pump:**

Single stage centrifugal pump with outlet size of 50mm (2.0"), 80mm (3.0") & 150mm (6").

■ **Impeller:**

SO type - Semi-Open impeller for clear, drainage or construction water with solid handling capacity of 8.5-20 mm.

■ **Motor:**

Thermal sensors are embedded with the winding.

■ **Cable:**

The cable connection chamber is isolated from the motor housing completely. Cable used - HO7RN-F | Cable length 8 - 15m

■ **Shaft / Bearing:**

Stainless steel shaft / ball bearings.

■ **Seals:**

Combination of mechanical seal is used in a separated oil chamber. Oil level can be checked from outside.

■ **Technical data:**

Motor power : 2.0 - 10.0 HP
 Voltage : 3 Phase (380V - 415V),
 Frequency : 50 Hz
 Insulation : F Class
 Motor protection : IP68
 Max. Liquid temp. : 40°C

■ **Material of Construction:**

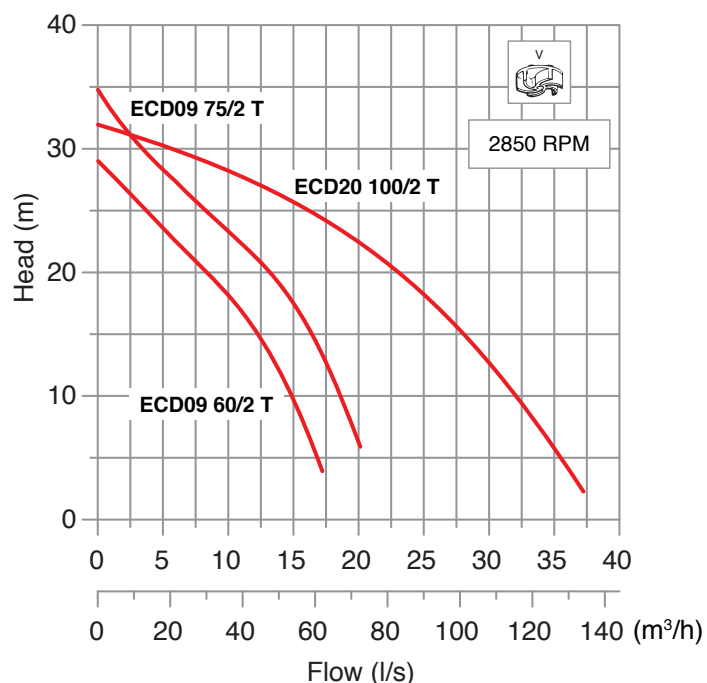
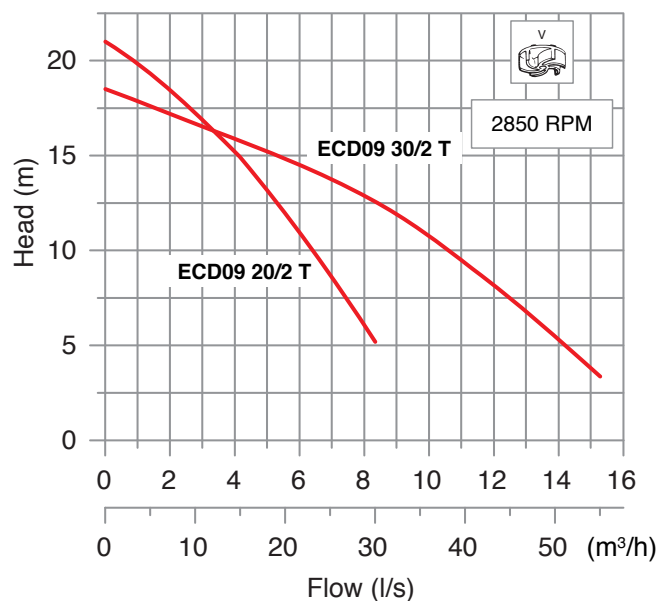
Component	Material
Diffuser	Ductile iron
Outer / Motor casing & Strainer	SS 304
Hose coupling, Upper cover, Up-bearing housing, Bearing housing & Seal bracket	Cast iron
Impeller	High chrome alloy
Mechanical seal	SiC-SiC/SiC-Carbon-SiC (<=2.2kW) SiC-SiC/SiC-SiC (3.7-5.5kW)
Shaft	SS 420
Handle	Steel



■ **Applications:**

- ▶ Construction Sites
- ▶ Mines, Wells, Quarries & Slurries
- ▶ Swimming pools, breweries & process industry
- ▶ Commercial & industrial wastewater drainage
- ▶ Backwaters, commercial fish ponds

■ Performance curve:

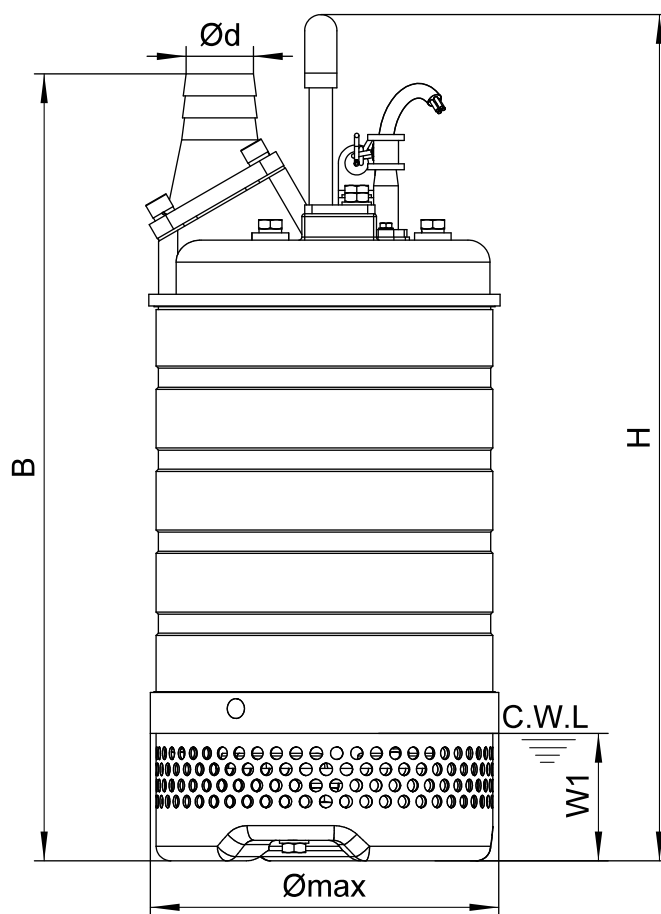


■ Technical table:

Curve no.	Pump model	Motor Power			Nominal Current (A)	Capacitor (µF)	Speed (rpm)	Solid Handling Capacity (mm)	Weight (kgs)
		P1 (kW)	P2 (kW)	HP					
2	ECD09 20/2 T	2.0	1.5	2.0	3.5	-	2850	9	41
3	ECD09 30/2 T	3.0	2.2	3.0	5.0	-	2850	9	44
4	ECD09 60/2 T	6.0	4.4	6.0	7.7	-	2850	9	64
5	ECD09 75/2 T	7.5	5.5	7.5	11.4	-	2850	9	72
6	ECD20 100/2 T	10.0	7.5	10.0	15.0	-	2850	20	122

* ECD09 - Series name, 09 - Solid handling capacity | XXX - Motor power/No. of poles | T - 400-415V/3 Ph

■ Dimensional drawing:



* C.W.L - Continuous running water level

■ Dimension details:

Pump model	H (mm)	B (mm)	Ø Max. (mm)	W1 (mm)
ECD09 20/2 T	563	540	240	87
ECD09 30/2 T	563	547	240	87
ECD09 60/2 T	515	591	300	76
ECD09 75/2 T	555	631	300	76
ECD20 100/2 T	700	810	355	142

B - The height from pump's bottom to outlet
 H - The height from pump's bottom to handle's top