

APPLICATIONS

- · Ground & nuisance water removal
- Drainage from dams, sewer systems, tunnels, river improvement projects & construction sites
- Pumping of muddy liquid generated from industrial projects



KZN

Sludge / Slurry Sump Pump

Model Numbers: DT37KZN, DT55KZN, DT75KZN, DT110KZN, DT150KZN, DT220KZN

KZN models are heavy duty, top discharge, dewatering pumps designed for very dirty water and farm wastes. They have a heavy duty inlet agitators and are suitable for pumping sludge and slurries.

WHY CHOOSE THE KZN Sludge/Slurry sump pump?

Corrosion resistant 410 stainless steel shaft and stainless steel shaft sleeve

- · Long service life
- · Impact resistant and long lasting
- Easily replaceable shaft sleeves save on shaft wear

Multivane, semi-open, wear resistant, high chrome impeller

 Ability to handle abrasive solid concentrations up to 70% by weight

Pumps have a heavy duty high chrome agitator

 Keeps the flow chamber and impeller clear by causing the solids to move in suspension, preventing the pump from clogging

Double silicon carbide mechanical seals

- Abrasion resistant
- · Located in separate oil chamber to protect the motor
- Added protection of a heavy duty lip seal

Top discharge with a motor water jacket

- Slimline design reduces the chance of damage to the outlet in transit
- Allows for pumping within inches of the bottom, without risk of overheating

Hardened ductile iron volute

 Cast with extra thick walls (300 Brinnell hardness) is twice as abrasive resistant as standard ductile cast iron, which ensures greater durability

Replaceable wear plate

 Hardened surface on suction side inhibits the occurrence of erosion that could cause a reduction in pump performance

Large open strainer

- Protects from larger solids entering the pump
- Liftina rinas
- For easy lifting and transportation of the pump





KZN Sludge/Slurry Sump Pump

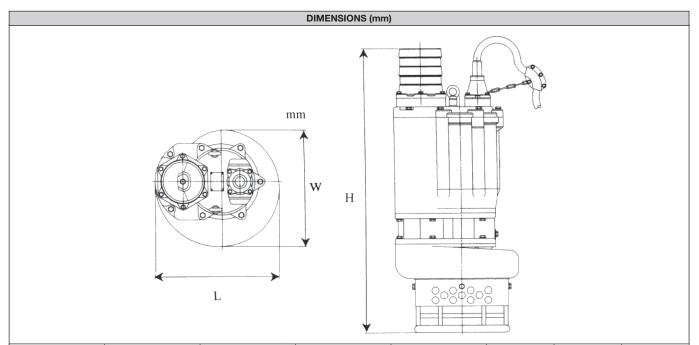
OPERATING LIMITS				
Capacities to	6500 lpm (390m³/hr)			
Maximum total head	35m			
Maximum submergence	15m			
Maximum pumped water temperature	40° C			

MATERIALS OF CONSTRUCTION				
Part	Material			
Motor Top and Shell	FC200 cast iron			
Pump body	FCD450 hardened ductile iron			
Suction cover	High (23%) chrome iron			
Agitator	High (23%) chrome iron			
Discharge outlet	FC200 cast iron			
Strainer	Steel			
Impeller	High (23%) chrome iron			
Lip seal	Nitrile			
Pump shaft	410 stainless steel			
Mechanical seals	Dual silicone carbide			
Seal and bottom bearing housing	FC200 cast iron			
Fasteners and plugs	304SS			
Power supply leads	HO7RNF			

Suitable Fluids

Water containing soft solids and/or hard solids in suspension, up to 70% by weight. Some wear should be expected with hard solid pumping. Not suitable for explosive or flammable materials or fluids.

ELECTRICAL DATA									
Supply voltage				380-415V / 50Hz					
Cable length (m)				10m					
Speed (rpm)				1450					
Insulation class				Н					
IP rating				x8					
Starting				DOL					
Motor kW size (P ₂)	3.7	5.5	7.5	11.0	15.0	22.0			
Input kW size (P ₁)	4.4	6.9	9.75	14.0	17.6	26.4			
Start Amps	50	63	73	103	134	182			
Run Amps	8	11.5	15.7	29.9	36.5	45.5			



Model	Motor (P₂) (kW / HP)	Discharge Port	Maximum Solids (mm)	Weight (kg)	L (mm)	W (mm)	H (mm)
DT37KZN	3.7 / 5	3"	20	130	420	410	820
DT55KZN-H	5.5 / 7.5	3"	25	150	420	410	820
DT55KZN	5.5 / 7.5	4"	25	150	420	410	820
DT75KZN-H	7.5 / 10	4"	25	180	420	410	840
DT75KZN	7.5 / 10	4"	25	180	420	410	840
DT110KZN-H	11 / 15	4"	35	245	565	485	1100
DT110KZN	11 / 15	6"	35	245	565	485	1100
DT150KZN	15 / 20	6"	35	265	565	485	1100
DT150KZN-L	15 / 20	6"	35	265	565	485	1100
DT220KZN	22 / 30	8"	35	410	578	543	1325
DT220KZN-L	22 / 30	8"	35	410	578	543	1325



