



THE RIGHT PUMP FOR
TOUGH JOBS

KZN-SERIES

HEAVY DUTY SUBMERSIBLE AGITATOR / SLURRY PUMPS



ENGINEERED TO TACKLE THE TOUGHEST APPLICATIONS & BUILT TO LAST WHERE OTHERS FAIL.

KZN-SERIES

KZN Heavy Duty Submersible Slurry Pumps with agitator is the choice of industries that face the most difficult pumping:

Lime slurries
Wash down sumps
Slag pits
Drillers Mud

Mill scale
Ash transfer
Food wastes
Sand & gravel dewatering

Barge & tank clean out
Coal runoff sumps
Tailings ponds
Silt removal

The **KZN** is the **TOUGHEST** pump for your job!

TOP 3 REASONS WHY YOU SHOULD CHOOSE THE KZN...

1 Every **KZN** slurry pump is constructed with the following abrasive resistant 28% chrome iron (600 Brinell, 57 Rockwell C) components;

- Agitator - to fluidize settled solids into a slurry.
- Wear plate - easily replaceable for optimizing performance.
- Impeller - 28% chrome iron slurry type open impeller designed to handle the most abrasive and highest percentage slurries.



High-Chrome Agitator helps keep solids suspended in liquid and helps prevent pump from clogging.

2 Every **KZN** slurry pump model is protected by;

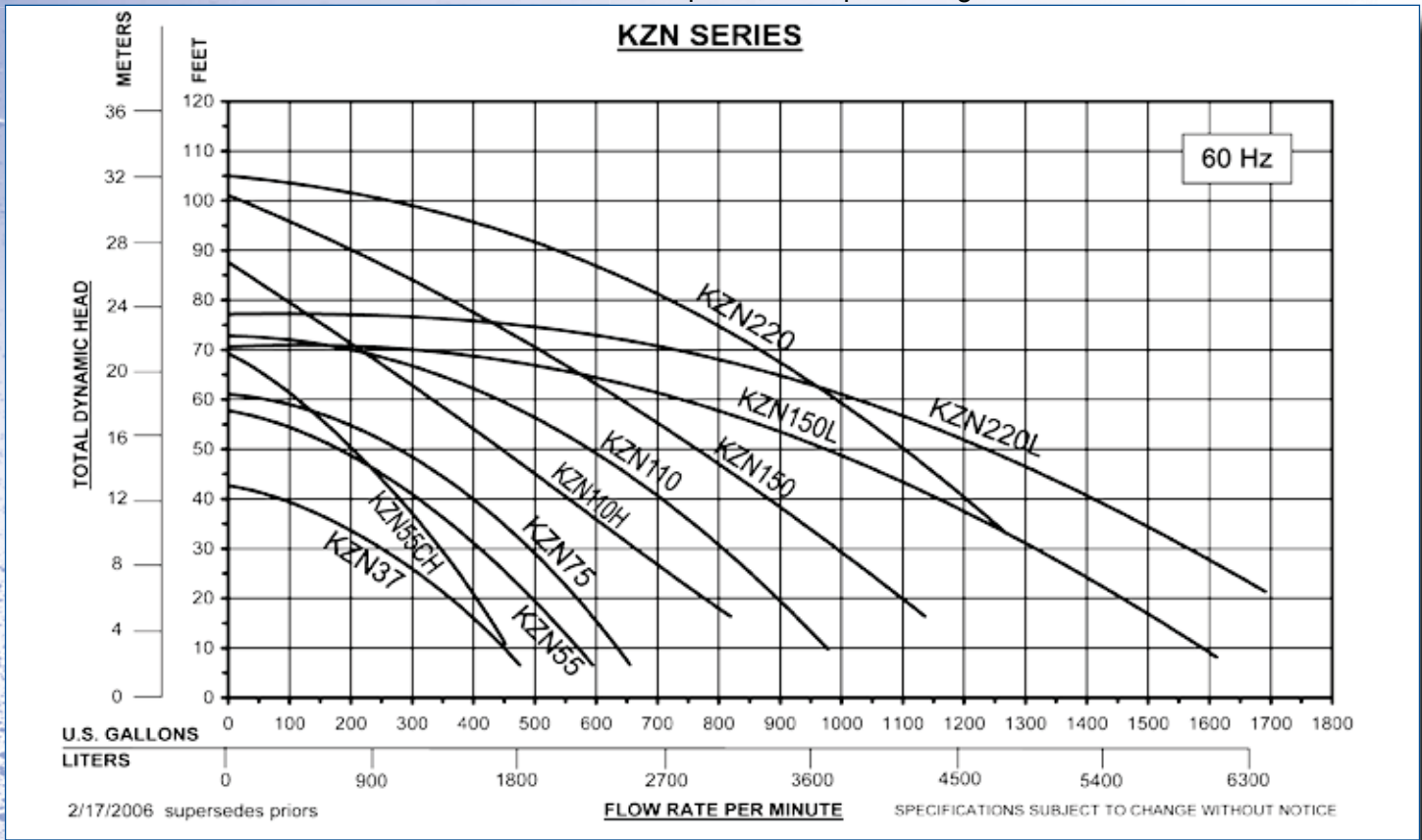
- Class H motor insulation - with integral amperage (FLA) and temperature overload protection.
- Double silicon carbide mechanical seals - in a separate oil filled seal chamber.
- Heavy Duty Lip Seal - additional protection for seal chamber from solids migration.
- Stainless steel shaft and shaft sleeve - saves on shaft wear due to abrasives and corrosive slurries.
- Hardened Ductile Iron Volute - 300 Brinell hardness; twice as abrasive resistant as standard ductile iron. Optional abrasion coatings available to extend volute life for overly aggressive slurries.
- The KZN's hardened ductile iron volutes - cast with extra thick walls at the point where pumped slurry enters the discharge.

3 Every **KZN** is a top discharge pump;

- KZN heavy duty slurry pumps are durable & portable; frequently dragged from one site to another. The KZN doesn't have a side discharge connection that can break off or be damaged as it is pulled and pushed into place.
- Top discharge pumps are cooled by the pumped liquid - The KZN slurry pumps can pump a sump or pit down to within "inches" of the bottom. A side discharge pump without a cooling jacket must stay submerged to avoid overheating, leaving as much as 3 feet of un-pumped slurry.
- Top discharge means "SLIM" - even the largest model with a 22.75 inch "waistline" will fit down a manhole with a hose attached.

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Every **KZN** slurry pump is constructed with abrasive resistant 28% chrome iron (600 Brinell, 57 Rockwell C) impeller, wear plate & agitator.



MODEL	DISCH. SIZE	H.P.	VOLT	RATED AMPS	MAX SOLIDS	MAX HEAD	MAX GPM	HEIGHT	WIDTH	PUMP WEIGHT LBS.	EST. SHIP-WEIGHT LBS.
KZN 37	3"	5	230/460	17/8.5	7/8"	42'	475	32.3"	16.5"	319	370
KZN 55	4"	7.5	230/460	19.5/9.5	1"	57'	594	32.3"	16.5"	332	385
KZN 55CH	3"	7.5	230/460	19.5/9.5	1"	69'	449	32.3"	17.25"	367	420
KZN 75	4"	10	460	13	1"	61'	655	33.0"	16.5"	344	397
KZN 110	6"	15	460	17.5	1 3/8"	72'	977	43.3"	21.5"	563	667
KZN 110H	4"	15	460	17.5	1 3/8"	87'	819	43.3"	21.5"	576	680
KZN 150	6"	20	460	26	1 1/2"	101'	1136	45.0"	21.5"	576	680
KZN 150L	6"	20	460	26	1 1/2"	70'	1611	45.0"	21.5"	576	680
KZN 220	6"	30	460	39	1 1/2"	105'	1268	52.2"	22.75"	1144	1275
KZN 220L	6"	30	460	39	1 1/2"	77'	1690	52.2"	22.75"	1144	1275

Power Supply:

All pumps are 3 phase, 1750 RPM, and have Class H motor insulation.

- Other voltages and Hz available.
- All pumps supplied with 50' power cord. Custom cable lengths available.
- Optional Seal Minder® available for all models.

Shaft Seal:

Dual Mechanical Seals (SiC) x 2;
Single or Dual lip-seals (dependant on model).
Replaceable Shaft Sleeve for inexpensive maintenance.



Also available: • KZNR-Series - proprietary volute hardening to extend life for overly aggressive slurries
• High temperature; **FAHRENHEIT™**, applications up to 200° F.

Features & Benefits



50 FT POWER CABLE

(UL / CSA / MSHA approved - custom length and optional Seal Minder® available)

CABLE ENTRY SEALING SYSTEM

(FKM compression fitting with SS gland nut and seal cable. Individually isolated and potting power leads to prevent wicking)

HEAVY DUTY LIFTING RINGS

(To easily lift & transport the pump)

NPT DISCHARGE

(Hose couplings also available)

HARDENED DUCTILE TOP DISCHARGE MOTOR HOUSING

(Twice as abrasion resistant (300 BHN) as ductile iron. Top discharge design allows for superior motor cooling and slim profile for fitting tight spaces)

HEAVY DUTY BALL BEARINGS

(Double shielded grease lube bearings designed to extend bearing life under heavier specific gravity slurries)

DUAL MECHANICAL SEALS (SiC X 2)

(Abrasion resistant Silicon Carbide seals in separate oil chamber to protect the motor)

OPTIONAL Seal Minder® MOISTURE DETECTION SYSTEM

(Provides early warning to protect motor)

SHAFT SLEEVE

(Easily replaceable, saves on shaft wear and prevents solid migration into seal chamber)

HARDENED DUCTILE IRON VOLUTE

(Hardened ductile iron (300 BHN) volute is standard. Optional coatings are available to extend the volute life under severely abrasive services)

CHROME IRON IMPELLER

(28% chrome iron slurry type semi-open impeller design to handle the most abrasive slurries)

CHROME IRON WEAR PLATE

(28% high chrome iron replaceable wear plate. Will keep pump performance like new longer, under the most demanding applications)

CHROME IRON AGITATOR

(28% high chrome iron hard metal agitator. Designed to agitate settled solids for easier pumping and removal)

LARGE OPEN STRAINER/STAND

(Keeps pump suction off the bottom to allow agitation of solids and protects pump inlet from larger solids that could block the impeller)

SPECIFICATION SUBJECT TO CHANGE WITH OUT NOTICE

WARNING: NOT FOR USE IN ANY FLAMMABLE LIQUIDS



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