

> Our technology. Your success.

Pumps • Valves • Service



Pumps & Mixers
for Water and Wastewater




CONQUER THE CLOG



Submersible motor pumps

Amarex N		Submersible Non-Clog Pump										
	<table border="1"> <tr> <td>Discharge Size:</td> <td>up to 4"</td> </tr> <tr> <td>Q (gpm):</td> <td>up to 660</td> </tr> <tr> <td>H (ft):</td> <td>up to 154</td> </tr> <tr> <td>T (°F):</td> <td>up to 104</td> </tr> <tr> <td>RPM:</td> <td>up to 3,600</td> </tr> </table>	Discharge Size:	up to 4"	Q (gpm):	up to 660	H (ft):	up to 154	T (°F):	up to 104	RPM:	up to 3,600	<p>Design: Vertical, single stage submersible motor pump, for wet installation, stationary and transportable design. Amarex N pumps are offered with vortex and grinder impellers.</p> <p>Application: Handling municipal and industrial wastewater, raw, activated, and digested sludge, dewatering/water extraction, drainage of rooms and surfaces subject to flooding.</p>
Discharge Size:	up to 4"											
Q (gpm):	up to 660											
H (ft):	up to 154											
T (°F):	up to 104											
RPM:	up to 3,600											
KRT / New Generation KRT - Wet Pit		Submersible Non-Clog Pump										
	<table border="1"> <tr> <td>Discharge Size:</td> <td>1.5" - 30"</td> </tr> <tr> <td>Q (gpm):</td> <td>up to 45,000</td> </tr> <tr> <td>H (ft):</td> <td>up to 330</td> </tr> <tr> <td>T (°F):</td> <td>up to 140</td> </tr> <tr> <td>P (hp):</td> <td>up to 1,140</td> </tr> </table>	Discharge Size:	1.5" - 30"	Q (gpm):	up to 45,000	H (ft):	up to 330	T (°F):	up to 140	P (hp):	up to 1,140	<p>Design: Vertical, single-stage wet well submersible motor pump with a choice of impellers such as vortex, single vane, multi-vane, screw type or grinder. Available in stationary and portable designs. Materials of construction include cast iron, duplex stainless steel and high chrome white iron.</p> <p>Application: Handling municipal and industrial waste water, sludge and grit.</p>
Discharge Size:	1.5" - 30"											
Q (gpm):	up to 45,000											
H (ft):	up to 330											
T (°F):	up to 140											
P (hp):	up to 1,140											
KRT - Dry Pit		Dry Pit Submersible Non-Clog Pump										
	<table border="1"> <tr> <td>Discharge Size:</td> <td>2.5" - 30"</td> </tr> <tr> <td>Q (gpm):</td> <td>up to 45,000</td> </tr> <tr> <td>H (ft):</td> <td>up to 330</td> </tr> <tr> <td>T (°F):</td> <td>up to 140</td> </tr> <tr> <td>P (hp):</td> <td>up to 1,140</td> </tr> </table>	Discharge Size:	2.5" - 30"	Q (gpm):	up to 45,000	H (ft):	up to 330	T (°F):	up to 140	P (hp):	up to 1,140	<p>Design: Vertical, single-stage dry well submersible motor pump with a choice of impellers such as vortex, single vane, or multi-vane. The motor is cooled by ambient air or a closed loop cooling system. Suitable for continuous operation in dry pit configuration. The standard version is made out of cast iron material.</p> <p>Application: Handling municipal and industrial waste water, sludge and grit.</p>
Discharge Size:	2.5" - 30"											
Q (gpm):	up to 45,000											
H (ft):	up to 330											
T (°F):	up to 140											
P (hp):	up to 1,140											
KRT Wet/Dry Pit		Submersible Non-Clog Pump										
	<table border="1"> <tr> <td>Discharge Size:</td> <td>1.5" - 8"</td> </tr> <tr> <td>Q (gpm):</td> <td>up to 2,500</td> </tr> <tr> <td>RPM (max):</td> <td>up to 1,750</td> </tr> <tr> <td>T (°F):</td> <td>up to 104</td> </tr> <tr> <td>P (hp):</td> <td>up to 10</td> </tr> </table>	Discharge Size:	1.5" - 8"	Q (gpm):	up to 2,500	RPM (max):	up to 1,750	T (°F):	up to 104	P (hp):	up to 10	<p>Design: Horizontal or vertical single-stage submersible motor pump in close-coupled design, with various impeller types, for wet or dry installation, stationary and transportable version, with energy-saving motor (IE2).</p> <p>Application: Handling municipal and industrial waste water, raw, activated, and digested sludge.</p>
Discharge Size:	1.5" - 8"											
Q (gpm):	up to 2,500											
RPM (max):	up to 1,750											
T (°F):	up to 104											
P (hp):	up to 10											

Submersible pumps in discharge tubes

Amacan® K		Submersible Non-Clog Impeller Pump										
	<table border="1"> <tr> <td>Discharge Size:</td> <td>28" - 48"</td> </tr> <tr> <td>Q (gpm):</td> <td>up to 22,000</td> </tr> <tr> <td>H (ft):</td> <td>up to 80</td> </tr> <tr> <td>T (°F):</td> <td>up to 104</td> </tr> <tr> <td>P (hp):</td> <td>up to 350</td> </tr> </table>	Discharge Size:	28" - 48"	Q (gpm):	up to 22,000	H (ft):	up to 80	T (°F):	up to 104	P (hp):	up to 350	<p>Design: A submersible pump in a tubular casing design. It comes equipped with a closed, non-clog impeller.</p> <p>Application: Handling water, screened waste water and activated sludge. It is used for drainage and general water supply as well as for pollution and flood control.</p>
	Discharge Size:	28" - 48"										
	Q (gpm):	up to 22,000										
	H (ft):	up to 80										
	T (°F):	up to 104										
P (hp):	up to 350											
Amacan® S		Submersible Mixed Flow Pump										
	<table border="1"> <tr> <td>Discharge Size:</td> <td>26" - 52"</td> </tr> <tr> <td>Q (gpm):</td> <td>up to 50,000</td> </tr> <tr> <td>H (ft):</td> <td>up to 98</td> </tr> <tr> <td>T (°F):</td> <td>up to 104</td> </tr> <tr> <td>P (hp):</td> <td>up to 500</td> </tr> </table>	Discharge Size:	26" - 52"	Q (gpm):	up to 50,000	H (ft):	up to 98	T (°F):	up to 104	P (hp):	up to 500	<p>Design: A submersible pump in a tubular casing design. It comes equipped with a mixed flow propeller.</p> <p>Application: Handling water not containing substances liable to twist and bunch. Its usage is for irrigation and drainage pumping, for general water supply as well as for pollution and flood control.</p>
	Discharge Size:	26" - 52"										
	Q (gpm):	up to 50,000										
	H (ft):	up to 98										
	T (°F):	up to 104										
P (hp):	up to 500											
Amacan® P		Submersible Propeller Pump										
	<table border="1"> <tr> <td>Discharge Size:</td> <td>20" - 64"</td> </tr> <tr> <td>Q (gpm):</td> <td>*up to 70,000</td> </tr> <tr> <td>H (ft):</td> <td>up to 40</td> </tr> <tr> <td>T (°F):</td> <td>up to 104</td> </tr> <tr> <td>P (hp):</td> <td>up to 725</td> </tr> </table>	Discharge Size:	20" - 64"	Q (gpm):	*up to 70,000	H (ft):	up to 40	T (°F):	up to 104	P (hp):	up to 725	<p>Design: A submersible pump in a tubular casing design. It comes equipped with an axial flow propeller.</p> <p>Application: Used in irrigation, storm drainage, untreated and clear water, effluent, treatment plants, as a cooling water pump in power stations and industrial processes for industrial water supply, amusement rides, flood control and aquaculture.</p> <p>* Larger size up to 150,000 gpm available upon request</p>
	Discharge Size:	20" - 64"										
	Q (gpm):	*up to 70,000										
	H (ft):	up to 40										
	T (°F):	up to 104										
P (hp):	up to 725											

End-suction pump

Sewatec **New Generation**

Non-Clog Pump



Discharge Size:	2" - 28"
Q (gpm):	up to 15,000
H (ft):	up to 295
T (°F):	up to 158
PSI (max):	up to 145

Design: Horizontal or vertical dry well and conventional sewage pump with a choice of impellers such as vortex, single vane, multi-vane or screw type. Available with tandem mechanical seal arrangement in a oil chamber, eliminating the need for a seal water system or external water source to the stuffing box.

Application: Handling municipal and industrial waste water, sludge and grit.

Axially-split pumps

Omega[®]

Axially Split Volute Casing Pump



Discharge Size:	3" - 14"
Q (gpm):	up to 12,680
H (ft):	up to 689
T (°F):	up to 284
PSI (max):	up to 363

Design: An axially split volute casing pump equipped with a large impeller eye area.

Application: Water supply systems, irrigation and drainage, municipal and public works, power engineering, industrial water supply, air conditioning, marine applications as well as general applications in refineries.

RDLO[®]/RDL

Axially Split Volute Casing Pump





Discharge Size:	14" - 28"
Q (gpm):	up to 44,030
H (ft):	up to 951
T (°F):	up to 284
PSI (max):	up to 435


Design: A single stage, double suction, axially split pump. Also available in vertical configuration.

Application: Handling clear, untreated and service water as well as sea water. It is used for a wide range of applications such as waterworks, irrigation and drainage pumping stations, power plants, shipbuilding, offshore production and petrochemical applications.

Mixers / Agitators / Recirculation

Amamix		Direct Drive Mixer								
	<table border="1"> <tr> <td>Propeller Ø:</td> <td>9" - 25"</td> </tr> <tr> <td>RPM (max):</td> <td>up to 1750</td> </tr> <tr> <td>T (°F):</td> <td>up to 104</td> </tr> <tr> <td>P (hp):</td> <td>up to 15</td> </tr> </table>	Propeller Ø:	9" - 25"	RPM (max):	up to 1750	T (°F):	up to 104	P (hp):	up to 15	<p>Design: A horizontal submersible mixer with direct drive, equipped with self cleaning propeller. The standard design is cast iron, material variants in corrosion and wear resistant stainless steel are also available.</p> <p>Application: Mixing, homogenizing and thickening municipal and industrial waste waters.</p>
	Propeller Ø:	9" - 25"								
	RPM (max):	up to 1750								
	T (°F):	up to 104								
	P (hp):	up to 15								






Amaprop		Gear Drive Mixer										
	<table border="1"> <tr> <td>Propeller Ø:</td> <td>40" - 100"</td> </tr> <tr> <td>Q (gpm):</td> <td>up to 76,188</td> </tr> <tr> <td>Propeller speed (rpm):</td> <td>up to 200</td> </tr> <tr> <td>T (°F):</td> <td>up to 113</td> </tr> <tr> <td>P (hp):</td> <td>up to 26</td> </tr> </table>	Propeller Ø:	40" - 100"	Q (gpm):	up to 76,188	Propeller speed (rpm):	up to 200	T (°F):	up to 113	P (hp):	up to 26	<p>Design: A horizontal submersible mixer with Ever-Clean Blade propellers in a close-coupled design and driven via helical gear.</p> <p>Application: Environmental engineering, especially for the treatment of municipal sewage and industrial effluents as well as biogas, sludges, circulation, suspension and flow generation in activating tanks, nitrification and denitrification, biological phosphate removal and flocculation.</p>
	Propeller Ø:	40" - 100"										
	Q (gpm):	up to 76,188										
	Propeller speed (rpm):	up to 200										
	T (°F):	up to 113										
P (hp):	up to 26											

Amaline		Recirculating Pump										
	<table border="1"> <tr> <td>Discharge Size:</td> <td>8" - 32"</td> </tr> <tr> <td>Q (gpm):</td> <td>up to 29,500</td> </tr> <tr> <td>RPM (max):</td> <td>up to 1750</td> </tr> <tr> <td>T (°F):</td> <td>up to 104</td> </tr> <tr> <td>P (hp):</td> <td>up to 36</td> </tr> </table>	Discharge Size:	8" - 32"	Q (gpm):	up to 29,500	RPM (max):	up to 1750	T (°F):	up to 104	P (hp):	up to 36	<p>Design: A horizontal propeller pump with a submersible motor. It is equipped with coaxial gear and direct drive Ever-Clean Blade propeller with rigid fiber-repellent blades.</p> <p>Application: Low head transfer applications.</p>
	Discharge Size:	8" - 32"										
	Q (gpm):	up to 29,500										
	RPM (max):	up to 1750										
	T (°F):	up to 104										
P (hp):	up to 36											



KSB's Impeller Family

In addition to selecting the right impeller size, selecting the right corresponding impeller type is equally as important. Put KSB's specialized impeller technology to work for you: (General Guidelines below, varies depending on pump size)

Type		Fluids	Solids Size	Efficiency	Gas Content [Vol. %]	Sand Content [g/l]	Dry substance [%]
F-max	 Free-flow, Vortex	<ul style="list-style-type: none"> ▪ Untreated municipal sewage ▪ Activated sludge ▪ Raw and digested sludge ▪ Mixed water ▪ Recirculated and heated sludge 	+++	+	+++	+++	++
E-max	 Closed Single Vane	<ul style="list-style-type: none"> ▪ Untreated municipal sewage ▪ Recirculated and heated sludge ▪ Raw and digested sludge ▪ Mixed water ▪ Activated sludge 	++	++	+	++	++
K-max	 Closed Multivane	<ul style="list-style-type: none"> ▪ Untreated municipal sewage ▪ Activated sludge ▪ Industrial effluent ▪ Storm water 	++	+++	+	+++	+
D	 Open Single Vane, Screw	<ul style="list-style-type: none"> ▪ Untreated municipal sewage ▪ Mixed water ▪ Raw and digested sludge ▪ Activated sludge ▪ Re-circulated and heated sludge 	++	++	++	++	+++
S	 Cutter, Grinder	<ul style="list-style-type: none"> ▪ Domestic sewage ▪ Waste water ▪ Effluents 	+	+	++	+	+

+Good, ++ Better, +++ Best

Tools to your success

Pump Selection Software - HELPS

HELPS has been specifically designed and tailor made for consulting engineers. The software saves substantial time and effort calculating system curves, selecting pumps and analyzing variable speed curves. HELPS will dynamically link your pump selection to the proper specifications and AutoCAD drawings to complete your work effectively and efficiently.

Ask your local KSB representative for a copy or a demonstration.

The solution for protecting your pump

The PumpSafe™ Module is used for monitoring all KSB submersible motors for moisture, thermal and bearing temperature. The PumpSafe™ is specifically designed for modern control systems utilizing constant speed or variable frequency drives (VFD). The module provides independent 5A, 120 VAC rated form C outputs.

Advantages:

- UL approved to both USA and Canadian requirements
- Power supply - 24-240VAC/1/60 hertz
- A manual/automatic selector switch for manual or automatic reset after alarm.
- RJ-11 connector configured as an RS485 port, for the Broadcast version, to retrieve archival data using a laptop computer. View firmware revision level, model/configuration, analog inputs, fault conditions, fault connectors, and reset counter.
- PumpSafe™ relays can also be purchased with a Modbus option that uses a RS-485 communications bus allowing any Modbus master to query and/or control various aspects of its operation. The advantage is that one or several devices may be connected to a host through a single multi-drop communications channel which allows monitoring and control from a remote location.
- Can be installed in previous Flygt installations with minimal modifications of the existing control system. Just swap out the Flygt MiniCAS with a PumpSafe™. Applies to both 120 VAC and 24 VAC operation. No additional wiring is required from the control panel to the pump/mixer.



KSB SupremeServ

Nationwide service for submersible pumps and mixers

KSB has authorized service shops throughout North America. The service shops personnel can trouble shoot, diagnose, repair and maintain KSB products. Large pumps and expert services are provided from our seven KSB SupremeServ Service Centers in the US.



Technology that **makes its mark**



KSB, Inc.
4415 Sarellen Road
Henrico, VA 23231
ksb.us.com