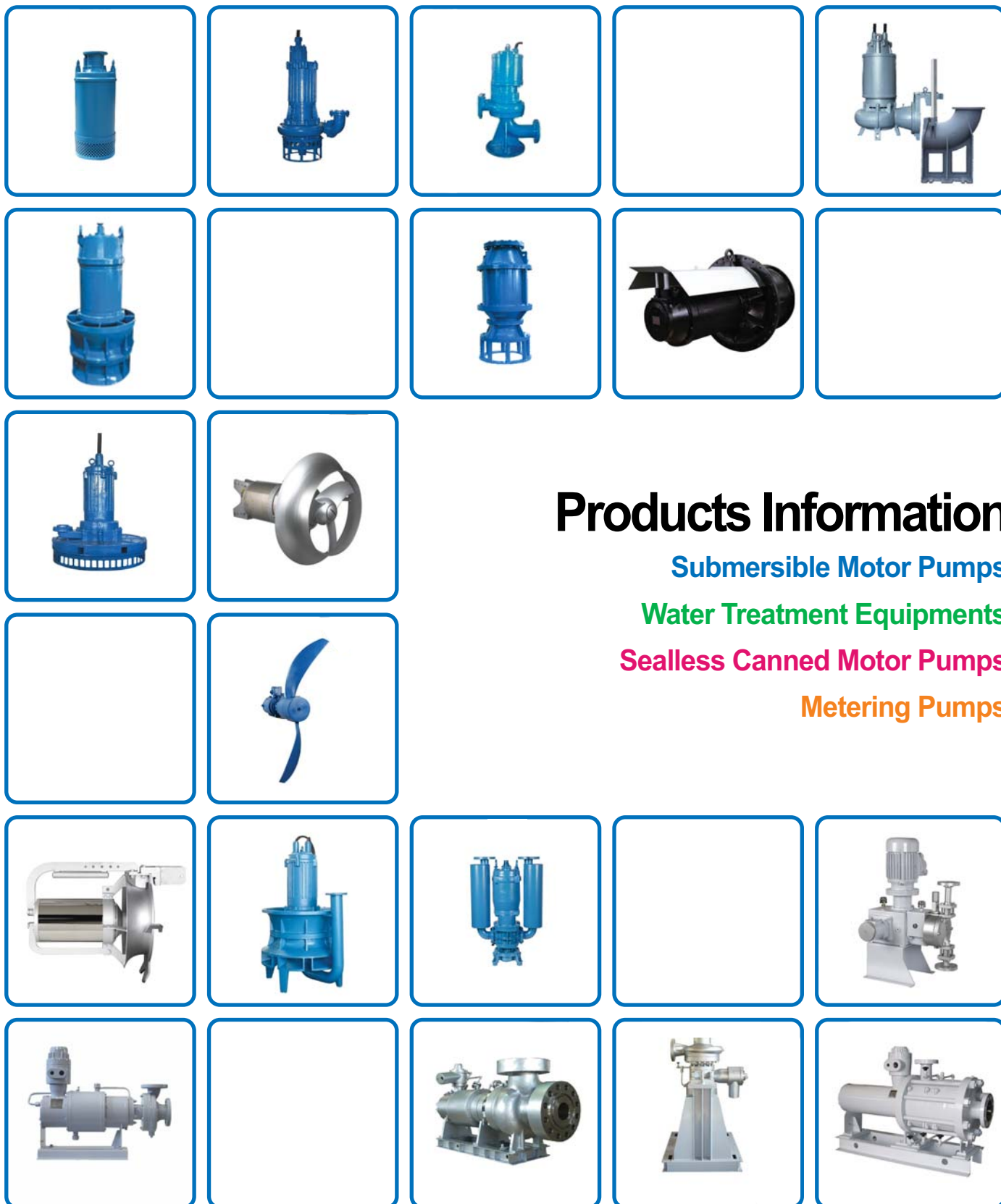


# SIC

Toward State of the Art Technology



## Products Information

Submersible Motor Pumps

Water Treatment Equipments

Sealless Canned Motor Pumps

Metering Pumps

SAMJIN Industrial Co., Ltd.



HSV Series



LSV Series



HHV Series

### Construction Dewatering Pumps: HSV/HHV/LSV Series

SAMJIN construction dewatering pump model HSV series, HHV series and LSV series are developed based on the optimized design, providing high reliability, durability and economical efficiency with various features.

These pumps are mainly used for civil engineering work, subway construction, dam construction and mining work to drain water. Due to its compact structure, it requires small space.

High quality and reliability are proven and guaranteed through rigid quality control programs, the latest manufacturing technology, long manufacturing experience and long life operation of this products.

#### Features:

- Simple & Compact Structure(Close Coupled), - Easy Installation,
- Excellent Cooling Effect
- Long Durability(Mechanical Seal Protection Device),
- Low Noise and Low Vibration

#### HSV Series Specification: General Dewatering

- Disch. Flow: Max. 3 m<sup>3</sup>/m, - Head: Max. 50 m, - Disch. Bore: Max. 150 mm,
- Motor Output: 1.5kW to 15kW, - Poles: 2P, - Ins. Class: B / F / H,
- Cable Length: 10m(Standard),
- Power Source: 3Phase-50/60Hz-200V thru 480V,
- Impeller Material: Ductile Iron, Stainless Steel & etc.

#### HHV Series Specification: High head Dewatering

- Disch. Flow: Max. 7 m<sup>3</sup>/h, - Head: Max. 160 m, - Disch. Bore: Max. 200 mm,
- Motor Output: 22kW to 110kW, - Poles: 2P, - Ins. Class: B / F / H,
- Cable Length: 10m(Standard),
- Power Source: 3Phase-50/60Hz-200V thru 480V,
- Impeller Material: Ductile Iron, Stainless Steel & etc.

#### LSV Series Specification: General Dewatering

- Disch. Flow: Max. 12 m<sup>3</sup>/h, - Head: Max. 36 m, - Disch. Bore: Max. 250 mm,
- Motor Output: 3.7kW to 37kW, - Poles: 4P, - Ins. Class: B / F / H,
- Cable Length: 10m(Standard),
- Power Source: 3Phase-50/60Hz-200V thru 480V,
- Impeller Material: Ductile Iron, Stainless Steel & etc.

#### Uses:

Drainage for civil engineering works, Subway construction works, Waterworks, Drainage works, River conservation works, Tunneling works, Road repairing, Harbor construction works, Dam construction works, Mining works & Various conditions

## Submersible Motor Pumps

### Sand Pumps: SGPK/SGPR/SGPN/SGPT Series

SAMJIN submersible sand pump model SGPK series, SGPR series, SGPN series and SGPT series are developed based on the optimized design, providing high reliability and durability. Impeller and agitator is made of abrasive resistant special alloy steel and the agitator at the bottom part of the impeller for drainage agitates sedimental slurry, sand or clay. It is robust submersible sand pump.

These pumps are mainly used for civil engineering work, dam construction and harbor or river dredge work. High quality and reliability are proven and guaranteed through rigid quality control programs, the latest manufacturing technology, long manufacturing experience and long life operation of this products.

#### Features:

- Simple & Compact Structure(Close Coupled),
- Excellent Suction Capability by Agitator, - Easy Installation,
- Long Durability(Special Alloy Steel Impeller, Agitator & Suction Cover),
- Low Noise and Low Vibration

#### SGPK Series Specification:

- Disch. Flow: Max. 1.5 m<sup>3</sup>/m, - Head: Max. 45 m, - Disch. Bore: 80 / 100 mm,
- Motor Output: 5.5kW to 15kW, - Poles: 2P, - Ins. Class: B / F / H,
- Cable Length: 10m(Standard),
- Power Source: 3Phase-50/60Hz-200V thru 480V,
- Impeller Material: Ductile Iron, Stainless Steel & etc.

#### SGPR Series Specification:

- Disch. Flow: Max. 4.0 m<sup>3</sup>/h, - Head: Max. 18 m,
- Disch. Bore: 80 / 100 /150 mm
- Motor Output: 5.5kW to 15kW, - Poles: 4P, - Ins. Class: B / F / H,
- Cable Length: 10m(Standard),
- Power Source: 3Phase-50/60Hz-200V thru 480V,
- Impeller Material: Ductile Iron, Stainless Steel & etc.

#### SGPN Series Specification:

- Disch. Flow: Max. 2.5 m<sup>3</sup>/h, - Head: Max. 20 m, - Disch. Bore: 80 / 100 mm,
- Motor Output: 5.5kW to 11kW, - Poles: 4P, - Ins. Class: B / F / H,
- Cable Length: 10m(Standard),
- Power Source: 3Phase-50/60Hz-200V thru 480V,
- Impeller Material: Hi-Cr, Stainless Steel & etc.

#### SGPT Series Specification:

- Disch. Flow: Max. 16 m<sup>3</sup>/h, - Head: Max. 35 m, - Disch. Bore: 100 ~ 250 mm,
- Motor Output: 15kW to 75kW, - Poles: 6P / 8P, - Ins. Class: F / H,
- Cable Length: 10m(Standard),
- Power Source: 3Phase-50/60Hz-200V thru 480V, - Impeller Material: Hi-Cr

#### Uses:

Pumping sand or clay contained water in civil engineering works, Drainage for slurry contained water in cement plant, quarry or mining, Pumping sediments contained water at grit chamber in wastewater treatment plant, Pumping scale contained water at steel works, Harbor or river dredge work, Sand collection



SGPK/SGPR Series



SGPN Series



SGPT Series



CS/HSF/SVT/  
SG Series



AT Series



Motor Fault  
Alarm Unit



Dry Pit Type



SB Series

Elbow Type



SB Series

Auto-Discharge  
Connector Type

### Sewage Pumps: CS/HSF/SB/SVT/SG/AT Series

SAMJIN submersible sewage pump CS/SB/HSF/SG/SVT/AUTO series are developed based on the optimized design, providing high reliability, durability and economical efficiency with various features.

These pumps are mainly used for transfer or drainage for sewage, waste water and rainwater. These pumps have two types of flange connection and auto discharge coupling. In case of cooling jacket type, pump can be operated with the exposure of motor part at low water level. In case of dry pit type, maintenance is easy. High quality and reliability are proven and guaranteed through rigid quality control programs, the latest manufacturing technology, long manufacturing experience and long life operation of this products.

#### Features:

- Simple & Compact Structure(Close Coupled), - Easy Installation,
- Reduction of Construction & Equipments Costs, - Low Noise and Low Vibration,
- Long Durability(Mechanical Seal Protection Device),
- Various Materials(Cast Iron, Stainless Steel, Hi-Cr & etc.)

#### CS Series Specification: Cutter Type

- Disch. Flow: Max. 2.8 m<sup>3</sup>/m, - Head: Max. 24 m,
- Disch. Bore: 50 / 80 / 100 mm, - Motor Output: 0.75kW to 15kW, - Poles: 4P,
- Ins. Class: B / F / H, - Cable Length: 10m(Standard),
- Power Source: 3Phase-50/60Hz-200V thru 480V,
- Impeller Material: Ductile Iron, Stainless Steel & etc.

#### HSF Series Specification: High Head Type

- Disch. Flow: Max. 2.8 m<sup>3</sup>/h, - Head: Max. 80 m, - Disch. Bore: 50 / 80 / 100 mm,
- Motor Output: 0.75kW to 30kW, - Poles: 2P, - Ins. Class: B / F / H,
- Cable Length: 10m(Standard),
- Power Source: 3Phase-50/60Hz-200V thru 480V,
- Impeller Material: Ductile Iron, Stainless Steel & etc.

#### SB Series Specification: Non-Clog Type

- Disch. Flow: Max. 110 m<sup>3</sup>/m, - Head: Max. 110 m, - Disch. Bore: 50 ~ 800 mm,
- Motor Output: 0.75kW to 750kW, - Poles: 4P thru 16P, - Ins. Class: B / F / H,
- Cable Length: 10m(Standard),
- Power Source: 3Phase-50/60Hz-200V thru 6600V,
- Impeller Material: Ductile Iron, Stainless Steel & etc.

#### SVT Series Specification: Vortex Type

- Disch. Flow: Max. 6.0 m<sup>3</sup>/m, - Head: Max. 60 m, - Disch. Bore: 50 ~ 200 mm,
- Motor Output: 0.75kW to 45kW, - Poles: 2P / 4P / 6P, - Ins. Class: B / F / H,
- Cable Length: 10m(Standard),
- Power Source: 3Phase-50/60Hz-200V thru 480V,
- Impeller Material: Ductile Iron, Stainless Steel & etc.

#### SG Series Specification: Grinder Type

- Disch. Flow: Max. 1.6 m<sup>3</sup>/m, - Head: Max. 65 m, - Disch. Bore: 50 / 80 mm,
- Motor Output: 0.75kW to 22kW, - Poles: 2P, - Ins. Class: B / F / H,
- Cable Length: 10m(Standard),
- Power Source: 3Phase-50/60Hz-200V thru 480V,
- Impeller Material: Ductile Iron, Stainless Steel & etc.

#### AT Series Specification: Auto-Type

- Disch. Flow: Max. 1.0 m<sup>3</sup>/m, - Head: Max. 26 m,
- Disch. Bore: 50 / 80 / 100 mm, - Motor Output: 0.75kW to 3.7kW,
- Poles: 2P / 4P, - Ins. Class: B / F / H, - Cable Length: 10m(Standard),
- Power Source: 3Phase-50/60Hz-200V thru 480V,
- Impeller Material: Ductile Iron, Stainless Steel & etc.

#### Uses:

Drainage, transfer, dewatering or intake for sewage, waste water and rainwater from small volume to large volume



## Submersible Motor Pumps

### Propeller & Mixed Flow Pumps: SPP/SMP/SX Series

SAMJIN SPP Series, SMP Series and SX Series (Submersible Propeller Pumps and Submersible Mixed Flow Pumps) are manufactured based on the optimized design by our research and have various advantages.

These pumps have well known reputation for high reliability, long durability, economy and high efficiency.

High quality and reliability are proven and guaranteed through rigid quality control programs, the latest manufacturing technology, long manufacturing experience and long life operation of this products.

Applications range from flood water control, agricultural, irrigation, and industrial water transfer and large volumes water transfer with head up to 30m for various conditions.

#### Features:

- Simple Structure(Direct Connection) and High Efficiency, - Easy Installation,
- Reduction of Construction & Equipments Costs, - Long Durability,
- Easy Maintenance and Repair Works, - Low Noise and Low Vibration

#### SPP Series Specification: Column Pipe Type

- Disch. Flow: Max. 700 m<sup>3</sup>/m, - Head: Max. 11 m,
- Disch. Bore: Max. 2000 mm, - Motor Output: 11kW to 1200kW,
- Poles: 6P thru 24P,
- Ins. Class: F / H, - Cable Length: 10m(Standard),
- Power Source: 3Ph-50/60Hz-200V thru 6600V,
- Propeller Material: Stainless Steel, Aluminium Bronze & etc.

#### SMP Series Specification: Column Pipe Type

- Disch. Flow: Max. 350 m<sup>3</sup>/m, - Head: Max. 30 m,
- Disch. Bore: Max. 1500 mm,
- Motor Output: 11kW to 1200kW, - Poles: 4P thru 24P, - Ins. Class: F / H,
- Cable Length: 10m(Standard),
- Power Source: 3Ph-50/60Hz-200V thru 6600V,
- Impeller Material: Stainless Steel, Aluminium Bronze & etc.

#### SX Series Specification: Flange Type

- Disch. Flow: Max. 60 m<sup>3</sup>/m, - Head: Max. 30 m, - Disch. Bore: Max. 800 mm,
- Motor Output: 4kW to 250kW, - Poles: 4 P thru 12 P, - Ins. Class: F / H,
- Cable Length: 10m(Standard),
- Power Source: 3Ph-50/60Hz-200V thru 480V,
- Impeller Material: Stainless Steel, Aluminium Bronze & etc.

#### Uses:

Flood water control, Agricultural water transfer, Irrigation water transfer, Industrial water transfer, Cooling water transfer and Large volumes water transfer for various conditions

CE



SPP/SMP Series  
Column Pipe Type



Motor Fault  
Alarm Unit

Suction Cone



SX Series  
Flange Type

## Submersible Motor Pumps

### Water Gate Pumps: PWG Series

SAMJIN submersible water gate pump PWG series are axial flow pumps that are developed based on the optimized design, providing high reliability, durability, economical efficiency and high efficiency with various features.

This type of water gate is characterised with the attachment of the pump to the water gate which enables pumping function without installation of extra pump.

These pumps are mainly used for drainage at the rain water channel and farming water channel.

These pumps are designed high speed, it is light and compact structure.

These pumps with high efficiency and low npsH propeller which create neither vortex nor cavitation, are possible for low head and large volume at low water level.

High quality and reliability are proven and guaranteed through rigid quality control programs, the latest manufacturing technology, long manufacturing experience and long life operation of this products.

#### Features:

- Additional Pumping Function to Water Gate,
- Reduction of Construction & Equipments Costs & Shortening Construction Terms,
- Easy Installation,
- Simple Structure(Direct Connection) & Light Weight,
- Operation at Lower Water Level,
- Long Durability,
- Easy Maintenance and Repair Works,
- Low Noise and Low Vibration

#### PWG Series Specification:

- Disch. Flow: Max. 200 m<sup>3</sup>/m, - Head: Max. 6 m,
- Disch. Bore: 250mm ~ 1200mm
- Motor Output: 11kW to 300kW, - Poles: 6P thru 24P, - Ins. Class: F / H,
- Power Source: 3Phase-50/60Hz-200V thru 6600V,
- Cable Length: 10m(Standard),
- Propeller Material: Stainless Steel, Aluminium Bronze & etc.

#### Uses:

Drainage at the rain water channel and farming water channel, Small & medium drainage facilities



PWGR Series



Motor Fault  
Alarm Unit



PWGF Series

# Water Treatment Equipments

## Aerators: AR Series

SAMJIN submersible aerator model AR series and ARN series are developed based on the optimized design, providing high reliability, durability, economical efficiency and high efficiency with various features.

The centrifugal force of water caused by rotation of impeller connected with the motor enables negative pressure to be formed on the outer periphery of impeller. Accordingly air is sucked into the water from the atmosphere due to the self priming action.

The sucked air is mixed with water by colliding itself with water in the area of guide vane and finally the water mixed with the air can be discharged through the discharge port. Due to this mixing effect in the guide vane, high mixing effect by colliding of air and water, high agitating and convection effect by mixing of air and water and excellent oxygen dissolution efficiency by oxygen transfer due to the generation of micro bubbles can be achieved.

The impeller and suction cover should be made of stainless steel in order to prevent oxidized corrosion. High quality and reliability are proven and guaranteed through rigid quality control programs, the latest manufacturing technology, long manufacturing experience and long life operation of this products.

### Features:

- Excellent Oxygen Dissolution Efficiency,
- Strong Agitating Force,
- Easy Adaptability to the Existing Aeration Tank,
- Simple Structure(Direct Connection) & High Efficiency,
- Low Noise and Low Vibration
- Easy Installation and Easy Maintenance

### AR Series Specification:

- Air Emission Volume(Water Depth: 3m): 36 to 400 Nm<sup>3</sup>/m,
- Oxygen Supply Capacity: 1.8 to 36kgO<sub>2</sub>/hr,
- Max. Water Depth: 3.6m to 5.0m, - No. of Outlets: 8ea,
- Agitating Capacity: Max. 490m<sup>3</sup>,
- Motor Output: 2.2kW to 22kW, - Poles: 4P, - Ins. Class: B / F / H,
- Cable Length: 10m(Standard),
- Power Source: 3Phase-50/60Hz-200V thru 480V,
- Impeller Material: Stainless Steel & etc.

### Uses:

Supply of oxygen for activated sludge treatment,  
Aeration at waste water treatment plant and sewage treatment plant



Motor Fault Alarm Unit



Silencer



AR Series

## Water Treatment Equipments



SMS Series  
Direct Drive Type



Motor Fault  
Alarm Unit



SMG Series  
Gear Drive Type



### Mixers: SMS Series

SAMJIN submersible mixer SMS series are developed based on the optimized design, providing high reliability, durability, economical efficiency and high efficiency with various features.

These mixers have been designed for creation of the maximum mixing effect by producing the intensive jet whirling flow by means of the high efficiency propeller and jet ring.

Consequently this mixer is applicable for the large mixing tank, the different shaped tank or the biological denitrification / dephosphorization tank or the other mixing tanks.

High quality and reliability are proven and guaranteed through rigid quality control programs, the latest manufacturing technology, long manufacturing experience and long life operation of this products.

### Features:

- High Powered Mixing Capability, - High Mixing Efficiency,
- Compatibility for Wide Range(Various Model and Various Materials)
- Simple Structure & Light Weight, - Low Noise and Low Vibration
- Easy Installation and Easy Maintenance

### SMS Series Specification: Direct Coupled Type

- Mixing Flow: 1.8 to 110 m<sup>3</sup>/m, - Mixing Capacity: Max. 5000m<sup>3</sup>,
- Reaction Force: Max. 6570N,
- Motor Output: 0.4kW to 30kW, - Poles: 4P / 8P / 12P / 16P, - Ins. Class: F / H,
- Cable Length: 10m(Standard),
- Power Source: 3Phase-50/60Hz-200V thru 480V,
- Propeller Material:Stainless Steel & etc.,
- Propeller Diameter: 175 to 770 mm,
- Propeller Speed: 1425 to 356rpm(50Hz) / 1710 to 427rpm(60Hz)

### SMG Series Specification: Reduction Geared Type

- Mixing Flow: 98.1 to 289 m<sup>3</sup>/m, - Mixing Capacity: Max. 4000m<sup>3</sup>,
- Reaction Force: Max. 4723N,
- Motor Output: 1.5kW to 5.5kW, - Poles: 4P / 8P, - Ins. Class: F / H,
- Cable Length: 10m(Standard),
- Power Source: 3Phase-50/60Hz-200V thru 480V,
- Propeller Material: FRP, Stainless Steel & etc.,
- Propeller Diameter: 1800mm / 2500mm,
- Propeller Speed: 32rpm / 38rpm / 46rpm / 54rpm

### Uses:

Sewage and wastewater treatment, environmental treatment, ocean development and pollution protection treatment

Civil / architectural industry, fishery industry, agricultural and livestock industry and food industry Paper / pulp industry, chemical industry, mining and metal industry.

It can also be used for the purpose of sediment, mixing, dispersion, neutralization, agitation, homogenization and protection of water pollution.



# Water Treatment Equipments

## Recirculation Pumps: SHP Series

SAMJIN submersible recirculation pump SHP series are developed based on the optimized design, providing high reliability, durability, economical efficiency and high efficiency with various features.

These pumps are axial flow pumps for pumping water of the large volume and low head.

These pumps is direct connection type without reduction gear, it is light and compact structure.

These pumps with high efficiency and low npsH propeller which create neither vortex nor cavitation, are possible for low head and large volume at low water level.

These pumps are mainly used for recirculation in the waste water treatment and for pumping farming channel water and water of the large volume and low head .

High quality and reliability are proven and guaranteed through rigid quality control programs, the latest manufacturing technology, long manufacturing experience and long life operation of this products.

### Features:

- Simple Structure(Direct Connection) & Light Weight,
- Easy Installation,
- Long Durability,
- Easy Maintenance and Repair Works,
- Low Noise and Low Vibration

### SHP Series Specification:

- Disch. Flow: Max. 90 m<sup>3</sup>/m,
- Head: Max. 2.6 m,
- Disch. Bore: 200mm to 800mm
- Motor Output: 0.75kW to 30kW,
- Poles: 4P / 8P / 12P / 16P,
- Ins. Class: F / H,
- Cable Length: 10m(Standard),
- Power Source: 3Phase-50/60Hz-200V thru 480V,
- Propeller Material: Stainless Steel & etc.

### Uses:

Recirculation in the sewage or waste water treatment,  
Drainage at the rain water channel and farming water channel,  
Small & medium drainage facilities



SHP Series



Motor Fault Alarm Unit



SHP Series



AQR Series D-Type  
Bottom Discharge Type



Motor Fault  
Alarm Unit



AQR Series U-Type  
Top Discharge Type

### Aquarators: AQR Series

SAMJIN submersible aquarator model AQR Series has functions of aerator and agitator with high efficiency, durability, reliability and economical effect developed by applying optimized design concept of submersible axial pump, submersible aerator and submersible mixer.

This aquarator can be used for aeration of general tanks and agitation of raw water control tanks and anaerobic tanks for biological phosphate elimination.

High quality and reliability are proven and guaranteed through rigid quality control programs, the latest manufacturing technology, long manufacturing experience and long life operation of this products.

#### Features:

- Excellent Oxygen Dissolution Efficiency,
- Strong Agitating Force,
- Easy Modification of Application either Aeration or Agitation,
- Easy Control of Oxygen Supply Volume,
- Easy Adaptability to the Existing Aeration Tank,
- Low Noise and Low Vibration
- Easy Installation and Raising for Check

#### AQR Series D-Type Specification: Bottom Discharge Type

- Air Emission Volume: 1.2 to 50 Nm<sup>3</sup>/m,
- Agitating Capacity: Max. 5500m<sup>3</sup>,
- Floor Space: Max. 920m<sup>2</sup>,
- Motor Output: 2.2kW to 30kW,
- Poles: 8P / 12P / 16P,
- Ins. Class: B / F / H,
- Cable Length: 10m(Standard),
- Power Source: 3Phase-50/60Hz-200V thru 480V,
- Propeller Material: Stainless Steel & etc.

#### AQR Series U-Type Specification: Top Discharge Type

- Air Emission Volume: 1.2 to 50 Nm<sup>3</sup>/m,
- Agitating Capacity: Max. 5000m<sup>3</sup>,
- Floor Space: Max. 835m<sup>2</sup>,
- Motor Output: 2.2kW to 30kW,
- Poles: 8P / 12P / 16P,
- Ins. Class: B / F / H,
- Cable Length: 10m(Standard),
- Power Source: 3Phase-50/60Hz-200V thru 480V,
- Propeller Material: Stainless Steel & etc.

#### Uses:

Aeration and agitation for sewage, waste water and sludge treatment, Preliminary and main aeration in the community plant, Aeration for fish farming and live stock farming

# Water Treatment Equipments

## Blowers: BR Series

SAMJIN submersible blower BR series are high performance submersible blower which uses 3-lobe helical rotors.

The two rotors, which are rotating to opposite directions each other within the casing, maintain small gap and rotate. The accumulated air between the two rotors move along the internal wall of the casing and is discharged to the discharge outlet. For conventional blowers that are installed on the ground, they create noise and vibration so that huge amount of money are spent for sound-proof and vibration-proof.

Also, they require bolwer room to protect blower and motor from rain and long pipeline is required from blower to aeration tank.

But submersible blower is installed in aeration tank so that it solves problems from noise, vibration and protective facilities of blower, reducing construction cost.

These blowers are mainly used for aeration at waste water treatment plant and other plant requiring aeration. This blower is manufactured by the strict quality control system in the production line.

### Features:

- No Need Noise Protecton Facility and No Need Blower Room,
- Requires Small Space,
- Easy Installation and Raising for Check,
- Reduction of Construction Costs & Shortening Construction Terms,
- Easy Adaptability to the Existing Aeration Tank,
- Simple Structure & Light Weight,
- Low Noise and Low Vibration

### BR Series Specification:

- Air Flow: 0.4 to 13.5 Nm<sup>3</sup>/m,
- Discharge Pressure: Max. 6000mmAq,
- Bore: 32mm to 125mm,
- Motor Output: 0.75kW to 15kW,
- Poles: 2P / 4P,
- Ins. Class: B / F / H,
- Power Source: 3Phase-50/60Hz-200V thru 480V,
- Cable Length: 10m(Standard),

### Uses:

Supply of oxygen for activated sludge treatment,  
Aeration at waste water treatment plant and sewage treatment plant



Motor Fault  
Alarm Unit



BR Series

## Canned Motor Pumps



CB / CR Type



CC / CL / CM Type



CY Type



CH Type



Vertical Type



In-Line Type



CU Type



Hi-Pressure Type

### Sealless Canned Motor Pumps: CLZ Series

SAMJIN sealless canned motor pump model CLZ series based on the optimized design, have been manufactured since 1987 by our research and development. These pumps are mainly used for chemical and petrochemical industries and general industries. These pumps guarantee leakage free and various features with high reliability, high safety, long durability, economy and high efficiency by manufacturing through rich experienced technology and thorough quality control and by continuously stabilizes operation records.

#### Features:

- Leakage Free (No Mechanical Seal),
- Low Noise and Low Vibration (Max.60dB & Max.20 $\mu$ m),
- Low Maintenance Cost
- Safety Protection Devices: Motor Monitor(Bearing Wear, Vibration, Motor Overheat, Motor Reverse Rotation and Pump Cumulative Operation Hours), Thermostat(Motor Coil Overheat)

#### CLZ Series Specification:

- Disch. Flow: Max. 1850 m<sup>3</sup>/h, - Head: Max. 550 m,
- Liquid Temp.: -200 $^{\circ}$ C to 400 $^{\circ}$ C,
- Liquid S.G.: 0.3 to 6.0, - Liquid Viscosity: Max. 200 cP,
- Design Pressure: Max. 500 kgf/cm<sup>2</sup>,
- Motor Output: 0.4kW to 450kW, - Poles: 2P / 4P / 6P, - Ins. Class: F / H / C,
- Power Source: 3Phase-50/60Hz-200V thru 480V,
- Explosion Proof: Flameproof Type (Outdoor Type)
- Liquid End Material: Stainless Steel, Hastelloy, Carpenter 20, Titanium & etc.

#### CLZ Series Type:

- CB Type(Basic Type, Max.155 $^{\circ}$ C),
- CR Type(Reverse Circulation Type, Max.155 $^{\circ}$ C),
- CC Type(High Temp. Type with Cooling Water, Max.350 $^{\circ}$ C),
- CS / CW Type(High Melting Point Liquid Type, Max.200 $^{\circ}$ C),
- SB Type(Self Priming Type, Max.155 $^{\circ}$ C),
- CL / CM Type(Slurry Separation & High Temp. Type with Cooling Water, Max.350 $^{\circ}$ C),
- CY Type(Non-Cooling High Temp. , Max.250 $^{\circ}$ C),
- CH Type(Non-Cooling High Temp. , Max.400 $^{\circ}$ C)
- IB / IC / IG Type(In-Line Type, Max.350 $^{\circ}$ C),
- CU Type(Multi Stage Type, Max. 200 $^{\circ}$ C) & etc.

#### Uses:

Chemical and Petrochemical Industries & Textile, Paper, Plastic, Synthetic Rubber and Fat / Food Industries

# Canned Motor Pumps

## LP gas Pumps: LPZ Series

SAMJIN sealless canned motor pumps for LP gas have been manufactured by our research and development since 1988 as the pioneer in Korea. SAMJIN sealless canned motor pumps for LP gas have been developed by state of the art technology and thorough quality control as safe and reliable pumps for LP gas which have outstanding features such as leak proof and sealless etc. SAMJIN canned motor pumps for LP gas guarantee reliability and safe operation.

### Features:

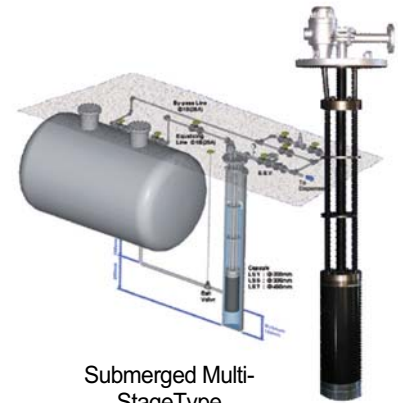
- LP gas Leakage Free
- Low Noise and Vibration (Max.60dB & Max.20 $\mu$ m)
- Low Maintenance Cost
- A Little Discharge Pressure Change Responding to Flow Change  
Due to little change of discharge pressure, the gas filling speed is almost same despite the increase of dispenser numbers and thus it makes the efficient pump operation.
- Safety Protection Devices  
Safety Control Panel: Overload, Reverse Phase, Phase Failure, Dry Operation, Overheat & Earth Leakage  
Bearing Monitor: Bearing Wear, Thermostat: Motor Coil Overheat

### LPZ Series Specification:

- Disch. Flow: 40 to 1000 LPM,
- Head: 20m to 300m,
- NPSH r: 0.3m to 0.7m,
- Motor Output: 1.5kW to 18kW,
- Poles: 2P,
- Power Source: 3Phase-50/60Hz-200V thru 480V,
- Ins. Class: F / H,
- Explosion Proof: Flameproof Type (Outdoor Type)

### Uses:

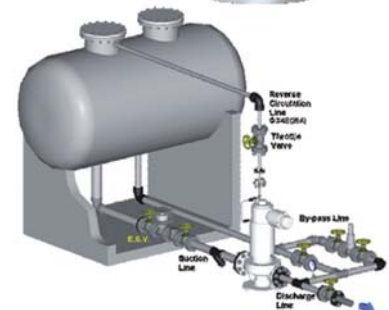
LP gas Filling Station, Oil Refinery, Petrochemicals and Tanker Ships etc.



Submerged Multi-Stage Type



Safety Control Panel



Over Ground In-Line Type



## Canned Motor Pumps



### Absorption Chiller-heater Pumps: RHV Series

SAMJIN sealless canned motor pumps RHV series have been manufactured by our own research and development since 1991 for the purpose of transfer of solutions and refrigerants of the absorption chillers and chiller-heaters with thorough quality control and high efficiency as safe and reliable pumps which have outstanding features such as leak proof and high vacuum etc. SAMJIN sealless canned motor pumps RHV series guarantee reliability and safe operation.

#### Features:

- High Vacuum and Leakage Free ( $1.52 \times 10^{-5}$  Torr)
- Excellent Suction Capability (Low NPSH, NPSH r: 0.45 m)
- Low Noise and Vibration (Max.60dB & Max.20  $\mu$ m)
- Low Maintenance Cost
- Safety Protection Device (Thermostat/Stator Coil Thermal Sensor)

#### RHV Series Specification:

- Disch. Flow: 10 to 2000 LPM,
- Head: 3m to 30m,
- NPSH r: 0.45 m,
- Liquid Temp.: Max. 120°C,
- Motor Output: 0.2kW to 15kW,
- Poles: 2P / 4P,
- Ins. Class: F / H / C,
- Power Source: 3Phase-50/60Hz-200V thru 480V,
- Enclosure: TE, IP55

#### Uses:

Absorption Chillers and Absorption Chiller-Heaters

# Metering Pumps

## Metering Pumps: HM3 series

SAMJIN metering pumps HM3 series have been manufactured since 1991 by our own research and development.

These pumps are mainly used for chemical and petrochemical industry and general industries with high quality control, high efficiency, reliability and durability.

### Features:

- Long Durability
- High Accuracy and High Linearity: Discharge Flow:  $\pm 3\%$ ,  
Discharge Pressure:  $\pm 1\%$
- Versatile Combination: Multiplex Combinations(Duplex, Triplex & etc.)
- Versatile Flow Control System: Servo Motor, Air Cylinder, Air Motor, Stroke Counter, Inverter Motor and Variable Speed Motor and etc.

### HM3 Series Specification:

- Disch. Flow: Max. 108 LPM(Simplex/60Hz), Max. 114 LPM(Simplex/50Hz),
- Disch. Pressure: Max. 500 kgf/cm<sup>2</sup>,
- Liquid Temp.: Max. 500°C,
- Liquid Viscosity: Max. 25000 cP,
- Liquid End Material: Stainless Steel, Hastelloy, Carpenter 20, Titanium & etc.

### Uses:

Chemical and Petrochemical Industries & Textile, Paper, Plastic, Synthetic Rubber, Fat / Food Industries and Waste Water Treatment



Plunger Type



Diaphragm Type



Diaphragm Rupture Detector (Option)



Auto-Volume Electronic Controller (Option)



Motor Vertical Type



SAMJIN Industrial Co., Ltd.

### **Contact**

For further information about products and services,  
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