GREEN GENESIS®
ENGINEERING LIMITED

OUR SOLUTION
ETP STP
WTP ZLD
DTW RO

PRODUCTS OVERVIEW

+880 1898777647 | 01933 302535 | www.greengenesisbd.com

One stop solution for water management

Our Warehouse

WHO WE ARE

Green Genesis Engineering Ltd. is a leading, 24-hour professional engineering company dedicated to delivering comprehensive industrial and commercial water and environmental solutions. With a strong foundation in engineering excellence, advanced technical know-how and years of practical experience, we provide end-to-end solutions that are reliable, efficient, and aligned with the evolving needs of our clients.

We specialize in Industrial Water Treatment Plants (WTP), Wastewater Treatment Plants (WWTP), Effluent Treatment Plants (ETP) and Sewage Treatment Plants (STP), serving a wide range of industries such as manufacturing, pharmaceuticals, textiles, power, food & beverage, hospitality and commercial developments.

Committed to sustainability, we focus on responsible resource utilization, effective environmental management, and long-term protection of natural resources for future generations.

Leadership
- Commitment
- Enthusiasm
- Honesty
- Empowered and technically capable people

Ability
- Smallest assignment to world scale developments
- Comprehensive geographic presence
- Global expertise delivered locally
- Responsive to customer preferences
- Optimum customized solutions

Performance
- Industry leadership in environmental performance
- Delivering on our promises
- Innovation delivering value for our customers

Relationship
- Open and respectful
- A trusted supplier, partner and
- Collaborative approach to business
- Willing to challenge and innovate
- Seeking enduring customer relationships

Our Partners: wilo DYNAMIC® GOLDENTECH Volt WEG Group Grampus ZEOMANGAN MANGANESE ZEOLITE seko KATALOX LIGHT NETZSCH Proven Excellence. MANN+HUMMEL GGEL

Wilo, Brand of Germany

Base Mounted End Suction Pump

Duty Parameter	• Capacity: Up to 600m3/hr • Head: Up to 150m • Temp: up to 120º C • Delivery Size: DN 32-DN 150	**Applications**	• General industry • Chemical & process • Water supply • Building service/firefighting • Irrigation/sprinkler system
Design Features	• Mounting: Horizontal • Stage: Single • Back pullout design. • Single-stage low-pressure centrifugal pump with axial suction, in accordance with EN 733 and ISO 5199 • Design Pressure: 16 Bar	**Material of Construction**	• Casing - Cast Iron • Impeller - Cast Iron Bronze

Wilo, Brand of Germany

Submersible Pump

Duty Parameter	• Capacity: Up to 2500 m3/hr • Head: Up to 580 m • Temp: up to 40º C • Delivery Size: DN 25-DN 400	**Applications**	• Water supply from borehole • Sprilking and Irrigation • Pressure Boosting • Process Water supply
Design Features	• Submersible multistage pumps • Integrated non return valve • Up to 20 starts per hour • Max. Sand content 50 g/m3 • Protection Class: IP 68	**Material of Construction**	• Casing - Grey Cast Iron, SS • Impeller - Grey Cast Iron, Bronze, SS and Duplex SS

Wilo, Brand of Germany

Horizontal Split Case Pump

Duty Parameter	• Capacity: Up to 18000 m3/hr • Head: Up to 270 m • Temp: up to 120ºC • Delivery Size: DN 50 -DN 1200	**Applications**	• General industry • Water Supply • Fire Fighting • Buildings Services • Ports and Docks • Spray irrigation
Design Features	• Horizontal inline design. • Stage : One/ Two/Three • Mechanical Seal • Gland Packing	**Material of Construction**	• Casing - Cast Iron, Bronze • Impeller - Cast Steel, Bronze, SS, Duplex SS and Special alloys

Wilo, Brand of Germany

Vertical Turbine Pump

Duty Parameter	• Capacity: Up to 50000 m3/hr • Head: Up to 450 m • Temp: up to 80ºC • Delivery Size: DN 100 -DN 2000	**Applications**	• Water supply/ irrigation • Cooling water for power plant • Flood control/ condensate/ extraction general industry/ fire fighting
Design Features	• Vertical wet pit • Stages: Single / multistage • Closed impeller • Above or below floor discharge • Pumped medium lubricated line shaft bearings • Non pull out bowl	**Material of Construction**	• Cast Iron, Bronze, Ductile Iron, Mild Steel, Cast Steel, Ni Resist, Stainless Steel, Duplex Stainless Steel & special alloys

Wilo, Brand of Germany

Multistage Ring Section Pump

Duty Parameter	• Capacity: Up to 1000 m3/hr • Head: Up to 1800 m • Temp: up to 160ºC • Delivery Size: DN 32 -DN 250	**Applications**	• Mine dewatering • Descaling in steel mills • Boiler feed application • Reverse osmosis for desalination plants water supply / general industry • Fire fighting
Design Features	• Mounting: Horizontal • Stages: 3 to 15 • Radial flow impellers with vane diffusers mechanical seal/ gland packing • Grease lubricated antifriction bearings	**Material of Construction**	• Cast Iron, Bronze, Ductile Iron,Cast Steel, Ni Resist, Stainless Steel, Duplex Stainless Steel & special alloys

Wilo, Brand of Germany

Multi-Pump Booster (VFD Based)

Duty Parameter	• Capacity: Up to 800 m3/hr • Head: Up to 160 m • Temp: up to 120º C • Delivery Size: DN 32-DN 100	**Applications**	• Pressure Boosting for Apartment, commercial complexes, hotels, industries, etc. • Boiler Feed • RO Feed
Design Features	• Multi-pump pressure boosting systems from two up to eight pumps in stainless steel construction, • Fitted on a common Baseplate with vibration dampers • Design Pressure: 25 Bar	**Material of Construction**	• Casing - SS (304/316L)/ Cast Iron • Impeller - SS (304/316L)

Wilo, Brand of Germany

Close Coupled Inline Vertical Pump

Duty Parameter	• Capacity: Up to 900 m3/hr • Head: Up to 110 m • Temp: up to 140º C • Delivery Size: DN 32-DN 250	**Applications**	• Building Service • Hot water • Water Glycol mixture • Cold water without abrasive substances • Generator Jacket Cooling
Design Features	• Low Pressure Inline pump • Stage: Single Stage • Close coupled design • KTL Coating for Corrossion Protection • 3 Phase standard IEC IP 55 motors • Mechanical seal	**Material of Construction**	• Casing - Cast Iron • Impeller - Cast Iron/ Bronze

Wilo, Brand of Germany

End Suction SS Pump

Duty Parameter	• Capacity: Up to 750 m3/hr • Head: Up to 170 m • Temp: -20º C to 120º C • Delivery Size: 32-150 mm	**Applications**	• HVAC Systems • Water Transfer • Distribution Systems • Fire Fighting • Cooling Tower • Drinking Water Supply
Design Features	• End Suction Top Discharge Centrifugal Type • Single Stage • Closed Impeller • Gland Packing / Mechanical Seal	**Material of Construction**	• Casing : SS(304 / 316 L) • Impeller : SS(304 / 316 L)

Wilo, Brand of Germany

Close Coupled Horizontal Pump

Duty Parameter	• Capacity: Up to 360 m3/hr • Head: Up to 105 m • Temp: up to 140º C • Delivery Size: DN 32-DN 250	**Applications**	• Building service • Hot water • Water glycol mixture • Cold water without abrasive • Substances • Filter Feed, Lifting
Design Features	• Low pressure end suction top discharge pump • Mounting: Horizontal • Stage: Single/ close coupled design • KTL coating for corrossion protection • 3 phase standard iec ip 55 motors • Mechanical seal	**Material of Construction**	• Casing - Cast Iron • Impeller - Cast Iron / Bronze

Wilo, Brand of Germany

End Suction Pump Engineered/ Special

Duty Parameter	• Capacity: Up to 3400 m3/hr • Head: Up to 220 m • Temp: up to 120º C • Delivery Size: DN 50 -DN 400	**Applications**	• Water supply • General industry • Paper & pulp • Building service • Fire fighting/ irrigation/ sprinkler system • Treated effluent
Design Features	• End suction top discharge • Mounting: Horizontal • Stage: Single • Back pullout design • Closed impeller • Mechanical seal/ gland packing grease/ oil lubricated antifriction bearings	**Material of Construction**	• Cast Iron, Bronze, Ductile Iron, • Cast Steel, Ni Resist, Stainless Steel, Duplex Stainless Steel & spcial alloys

Wilo, Brand of Germany

Single Pump Booster (VFD Based)

Duty Parameter	• Capacity: Up to 90 m3/hr • Head: Up to 150 m • Temp: up to 120ºC • Delivery Size: DN 32-DN 100	**Applications**	• Pressure Boosting for residential building • Small cottages and bungalow.
Design Features	• Pressure Boosting systems with Single pump in Horizontal inline design. • Variety of panals with floating VFD/ With dedicated VFD/	**Material of Construction**	• Casing - SS (304/316L)/ Cast Iron • Impeller - SS (304/316L)

Wilo, Brand of Germany

Horizontal Multistage Pump

Duty Parameter	• Capacity: Up to 25 m3/hr • Head: Up to 68 m • Temp: up to 110ºC • Delivery Size: DN 25-DN 32	**Applications**	• Pressure Boosting for Residential Buildings • Bathroom Shower Panel
Design Features	• Pressure Boosting systems with Single pump in Horizontal or vertical inline design • Corrosion proof wetted parts.	**Material of Construction**	• Casing - SS (304/316L)/ Cast Iron • Impeller - SS (304/316L)/ cast Iron

Wilo, Brand of Germany

Submersible Sewage Pump

Duty Parameter	• Capacity: Up to 8000 m3/hr • Head: Up to 100 m • Temp: up to 60º C • Delivery Size: DN 32-DN 600	**Applications**	• Municipal raw sewage transfer • Sewage treatment plants • Effluent treatment plants • Dirty water in industry
Design Features	• Vertical submersible sewage pumps • Stage: Single • Non clog (free flow/ single/ multi channel) impeller • Large free passage size up to 200 mm double mechanical seal • Oil barrier chamber with float switch winding/ bearing temperature indicators/ moisture sensor	**Material of Construction**	• Casing - Cast Iron/ Engineering Plastic • Impeller - Cast Iron / SS / Engineering Plastic • Other materials on request

Wilo, Brand of Germany

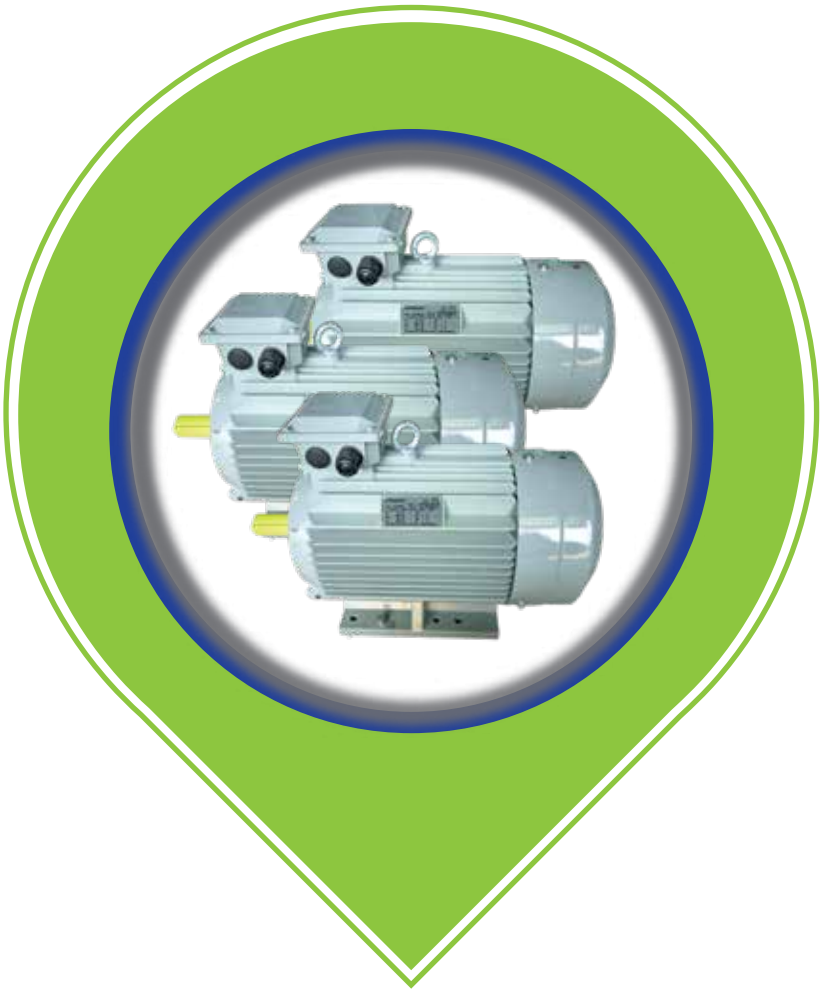
Submersible Drainage Pump

Duty Parameter	• Capacity: upto 102 m3/hr • Head: upto 30 m • Temperature: upto 130°C • Delivery size: DN 50- DN 100	**Applications**	• Sewage containing faeces • Wastewater Transfer • Effluent Treatment Plant • Sewage Treatment Plant
Design Features	• Stainless Steel motor body with IP 68 protection • AC thermal motor protection • Solid passage: upto 65 mm • Phase: 3 • Stage: Single	**Material of Construction**	• Motor body: Stainless Steel • Pump Body: Cast Iron • Impeller: Cast Iron

Wilo, Brand of Germany

Self Priming Non Clog Pump

Duty Parameter	• Capacity: Up to 266 m3/hr • Head: Up to 34 m • Temp: up to 100º C • Delivery Size: DN 40-DN 150	**Applications**	• Waste Water Supply • De-watering from trenches and pits • Mud transfer • Effluent transfer
Design Features	• Mounting: Horizontal • Stage: Single • Semi Open Impeller • Self priming and back pull out design for easy maintenance • Design Pressure: 10 Bar	**Material of Construction**	• Casing - Cast Iron • Impeller: SS-304



HIGH QUALITY MOTOR WITH COMPETITIVE PRICE

IE2, IE3 & IE4 Series Available

Introduction:

These three phase motors are made to IEC standards. These are superior motors having excellent power factors, efficiencies and starting torques.

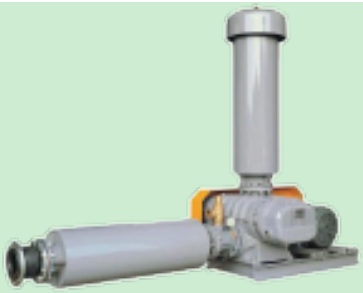
Customer Benefits:

- Water dust and vermin resistant
- Quiet operation
- Corrosion resistant
- Reliable in country, city or factory environments
- Very low power consumption
- Superior life

Motor Features:

- IE2, IE3 and IE4 Series available
- Conform to the IEC Standard
- Utilize IP55 enclosures, other request
- High performance and energy efficient
- The best quality bearings used
- Dust and Vermin resistant
- Up to 8 pole are available
- Power range: up to 700 kW
- Class F insulation, Class H available on request
- 400/415 Volt 50/60 Hz windings
- High quality magnet wire
- Vacuum varnish impregnation for superior tropic proof insulation
- Continuous SI operation
- Industrial type service factors
- High strength cast iron frame

Dynamic®, A Global Brand
Volt , Brand of Turkey



Dynamic®, A Global Brand
Goldentech, Brand of Taiwan

Roots Blower

Duty Parameter	• Bore: up to 16 Inch • Capacity: up to 360 m^3/ min • Pressure: 6,000-12,000 mmAq • Power: 1 Hp to 700 HP	**Applications**	• ETP, STP and Aquaculture • Electroplating Industry • Paper, Chemical and Food Industry
Design Features	• Air Cooling, pertial water cooling • Water Cooling • Three lobe pressure type • Strict management of quality standards • Oil and dust-free outlet • Lubricated with high grade oil, proven to be a much better alternative to grease • Much quieter: our new design can effectively reduce noise by approximately 5 dB • Lower energy consumption		

Dynamic®, A Global Brand
Goldentech, Brand of Taiwan

Ring Blower

Duty Parameter	• Capacity: 0.8- 40 m^3/min • Head: 50-450 mbar • Power: 0.18- 22 kW	**Applications**	• Printing Machines • Burning Machines • Household Machines • Plastic Extruder, Laminating, Film Making Machines • Food and beverages Industries • Uniform Temperature Equipment • Grain Elevators • Woodworking Machines • Pollution Machines • Hot Air Blower • Textile Machines • Dryers Machines • Incinerators
Design Features	• Cooler running NSK & TPI bearing • Precise blade and cover made of die-cast aluminium • High Quality copper winding motor with IP54 and IP55 protection and insulation class H Die cast Aluminium alloy housing • Wide voltage and frequency, stable working performance and energy saving • Dual-usage: Compressor and vacuum • High pressure and big smooth air volume • No oily odors		

Goldentech, Brand of Taiwan

Disc Diffuser (Fine Bubble)

Duty Parameter	• Air flow rate: 0.02 – 0.10 m^3/min • Diameter: 10" (260 mm) • Connection size: NPT-3/4" Male	**Applications**	• Industrial and Municipal wastewater treatment • Gray Water Treatment • Sludge Stabilization • Wastewater Ozone Diffusion • Aeration of fish ponds
Design Features	• Low resistance loss • Highly tear resistant • Anti-clogging, anti-backflow • Ageing-resistant, anti-corrosion	**Material of Construction**	• MOC-Body: Reinforced ABS • Circular Cover: Reinforced ABS • Membrane: High Grade EPDM

Goldentech, Brand of Taiwan

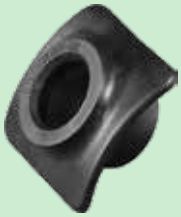
Tube Diffuser (Fine Bubble)

Duty Parameter	• Air flow rate: 290- 440 L/min • Length: 1000 mm • Connection size: PT-3/4" Female	**Applications**	• Industrial and Municipal Wastewater treatment • Gray Water Treatment • Sludge Stabilization • Wastewater Ozone Diffusion • Aeration of fish ponds
Design Features	• High Oxygen Transfer Efficiency • High Resistance to clogging & corrosion • Wide airflow range • Low system head-loss • Backflow prevention	**Material of Construction**	• MOC-Body: PVC • Clamp Locator: SS316 • Membrane: EPDM

Goldentech, Brand of Taiwan

Disc Diffuser (Coarse Bubble)

Duty Parameter	• Air flow rate: 100- 450 L/min • Diameter: 6" (144 mm) • Connection size: PT1B thread	**Applications**	• Industrial and Municipal Wastewater Treatment • Gray Water Treatment • Sludge Stabilization
Design Features	• Pipe Caliber for connection • Hard enduring diffuser can decrease pressure loss • Hard enduring diffuser with excellent corrosion resistance • Full-close against backflow	**Material of Construction**	• MOC-Body: ABS Resin • Film section: The Plastic Synthetic Resin



Dynamic®, A Global Brand
Goldentech, Brand of Taiwan

Mounting Saddle

Design Features	• Suitable for All Plastic Pipe • Female Threaded • Auto Lock and Built-in Sealing System	**Applications**	• Industrial and Municipal wastewater treatment • Gray Water Treatment • Sludge Stabilization • Wastewater Ozone Diffusion • Aeration of fish ponds
Material of Construction	• Flexible PVC		

Dynamic®, A Global Brand
GGEL Brand of China

Screw Press

Duty Parameter	• Range from the super small model with 0.5kg- DS/h treatment capacity to huge model with 1320-1360kgDS/h treatment	**Applications**	• Municipal sewage • Industrial sewage • Food industry, Chemical industry • Machinery industry metal, processing industry • Oil industry, printing industry • Washing industry • Papermaking industry
Design Features	• Higher Solid content of sludge - Simple operation and maintenance • Low energy consumption • Strong anti-sludge ability, easy to separate and not blocked • Fully automatic control	**Material of Construction**	• SS304

Dynamic®, A Global Brand
GGEL Brand of China

Mechanical Bar Screen

Duty Parameter	• Solid-liquid Separation • Pre-treatment Equipment	**Applications**	• Waste water preliminary treatment • Industries, farms, paper-mills, tanneries • Fish Industries and so on
Design Features	• Simple & automated operation • Low energy consumption • Low noise high efficiency • Low cost • Low energy consumption • Long service life	**Material of Construction**	• SS304 or SS316 as per requirement

Dynamic®, A Global Brand
Grampus, Brand of Taiwan

Submersible Mud Pump (SS Made)

Duty Parameter	• Max. Flow: Upto 1.3 m3/min Max Head: Upto 28 m Power: Upto 7.5 kW Temperature: upto 40°C Delivery size: DN 50- DN 100	**Applications**	• Wastewater lift station, municipal wastewater treatment plant. • Building wastewater treatment system • Piggery excrement, animal & poultry farm • School, Hospital, community wastewater treatment system • Food, paper, mining, textile, leather industry wastewater treatment system
Design Features	• Stainless Steel motor body with IP 68 protection • Phase: Single, Three • Stage: Single • Solid passage: upto 50 mm	**Material of Construction**	• Motor body: Stainless Steel • Pump Body: Stainless Steel (SS316) • Impeller: Stainless Steel

Dynamic®, A Global Brand
Grampus, Brand of Taiwan

Submersible Mud Pump

Duty Parameter	• Max. Flow: Upto 2 m3/min • Max Head: Upto 30 m • Power: Upto 11 kW • Temperature: upto 40°C • Delivery size: DN 50- DN 100	**Applications**	• Wastewater lift station, municipal wastewater treatment plant. • Building wastewater treatment system • Piggery excrement, animal & poultry farm • School, Hospital, community wastewater treatment system • Food, paper, mining, textile, leather industry wastewater treatment system
Design Features	• Stainless Steel motor body with IP 68 protection • Phase: Single, Three • Stage: Single • Solid passage: up to 50 mm	**Material of Construction**	• Motor body: Stainless Steel • Pump Body: Cast Iron • Impeller: Cast Iron

Dynamic®, A Global Brand

Electromagnetic Flow Meter

Duty Parameter	• Measuring Range: 0.9 m3/hr- 800 m3/hr • Diameter: DN25- DN200 • The velocity range is 0.3m/s to 15m/s • Pressure: 4.0 MPa to 1.6 MPa • Output 4~20mA • Temperature: -20°C to 120°C • Power: 220 V	**Applications**	• Water & Waste Water treatment plant • Industrial process liquid flow measurement • Hot and cold water • Boiler and cooling tower • Flow monitoring of liquid for BMD system/Online monitoring system
Design Features	• Fast response and high stability • High Accuracy, 0.5%, 0.2% for flowrate • Dual cavity housing to separate electronic part from wiring part • AC power supply common use (85~265vac) • High visible backlit LCD for easy operation • Communication: E.G. RS485, RS232C, HART, Profibus, MODBUS etc. • BI-direction measuring and totalizing	**Material of Construction**	• Case material: Aluminium Alloy • Coating: Polyurethane corrosion-resistant coating • Sensor Housing: Stainless Steel (SUS304) • Lining: Rubber, PTFE • Electrode: Stainless Steel (SUS316)

Seko, Brand of Italy

Metering Dosing Pump

Duty Parameter	• Flow rate: from 40 to 1000 LPH • Max. Pressure: 20 bar • Stroke rate: 58-116 strokes/minute • Diaphragm/Piston diameter: from 25 mm to 89 mm • Motor: standard 0.55-0.75 kW (IP55) • Stroke length: 25 mm	**Applications**	• Water Treatment Plant (RO, DM, Softener) • Waste Water Treatment Plant (ETP, STP, WWTP) • Industrial Production Process (Textile, Paper, Tanneries, Food Processing etc.) • Acid, Caustic, Disinfectant etc. Dosing System
Design Features	• Mechanical diaphragm metering pumps featuring a spring return mechanism and PPS housing/aluminium housing.	**Material of Construction**	• Pump Head : PVC / PVDF • Diaphragm : PTFE • Seal : FPM / EPDM • Valve : Ceramic • Valve Seats : PTFE

Seko, Brand of Italy

Solenoid Driven Dosing Pump

Duty Parameter	• Flow rate: upto 54 LPH • Max. Pressure: upto 10 bar • Stroke rate: 58-116 strokes/minute • Diaphragm/Piston diameter: from 25 mm to 89 mm • Motor: standard 0.55-0.75 kW (IP55) • Stroke length: 25 mm	**Applications**	• Urban water treatment and waste water treatment • Dosing of chlorine dioxide • Reverse osmosis, food, beverage • Pharmaceuticals
Design Features	• Solenoid dosing pump, operating with a micro-processor to manage the dosing, it is easy to operate with table flow rate	**Material of Construction**	• Pump Head : PVDF • Diaphragm : PTFE • Seal : FPM / EPDM • Ball : Ceramic

Seko, Brand of Italy

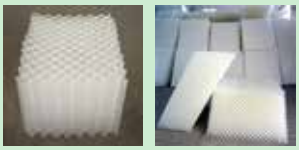
pH+ DO+ Cl+ MLSS

Duty Parameter	• Measuring variable: pH(0 – 14 pH), ORP(± 2000 mV), Electrical Conductivity (0.054 – 200000 µS), Chlorine(0 – 200 ppm), Temperature(0 – 100° C), DO(0 – 20 ppm), MLSS(0.0 – 30,000 mg/l)	**Applications**	• Drinking water • Irrigation systems • Cooling water treatment • Swimming pools • Flocculant dosing systems • Waste water, pure water • Reverse osmosis
Design Features	• Type: Compact Controller • Installation Type: Wall mounted • Graphic display • Signal current out: 4-20mA • Electrical connection: 100-240 Vac, 50/60 Hz • Temperature: Upto 130°C • Pressure: upto 16 bar	**Material of Construction**	• Body material: Plastic/PVC • pH/Electrode element: Glass • Diaphragm: Open hole

GGEL Brand of China

MBBR Media

Design Features	• Diameter: 25 mm • Length: 12 mm • % Media fill: 15-65% • Surface area: 650 m2/m3 • Color: White/Black • BOD5 oxidation efficiency: 2000-10000 g BOD5/m3-day • Applicable temperature: 5-60°C	**Applications**	• Sewage Treatment • Biological water treatment • Aquaculture, Fishery Water Treatment process • Industrial Water Treatment • MBBR Integrated Equipment
		Material of Construction	• High Virgin HDPE



GGEL Brand of China

Tube Settler

Design Features	• Length: 1000 mm • Width: 1000 mm • Thickness: 1 mm Pore • Diameter: 50 mm • Color: White • Shape: Hexagonal • Surface Overflow rate: Upto 2.5 m3/m2/hr	**Applications**	• High Load Biofilter • Submerged Biofilter • Biological turntable microbial carrier • Industrial organic wastewater • Urban sewage biochemical treatment
		Material of Construction	• PP (Polypropylene)

Dynamic Centrifugal Pump

General Description	Application
• Max. Flow: 12m3/h • Max. Head: 50m • Single-Phase 220V/50Hz • Three-Phase 380V/50Hz • Mechanical seal: Ceramic / Graphite / NBR rubber • Motor: 2 pole asynchronous motor, copper wires, built-in thermal protector, fully closed fan cooling, continuous running • Insulation: Class B Dynamic®, A Global Brand	• Suction head up to 8m • Liquid temperature up to +40ºC • Ambient temperature up to +40ºC • Max. Working pressure: 5bar • Voltage fluctuation should not exceed 10% of rated value. • pH: 6.5 to 8.5ºC **Material of construction** • Casing/Impeller: cast iron.

Gks Series Centrifugal Pump

General Description	Application
• Max. Flow: 6m3/h • Max. Head: 48m • Single-Phase 220V/50Hz • Three-Phase 380V/50Hz • Mechanical seal: Ceramic / Graphite / NBR rubber • Motor: 2 pole asynchronous motor, copper wires, built-in thermal protector, fully closed fan cooling, continuous running • Protection: IP44 • Insulation: Class B Dynamic®, A Global Brand	• Suction head up to 9m • Liquid temperature up to +40°C • Ambient temperature up to +40°C • Max. Working pressure: 6bar • Voltage fluctuation should not exceed 10% of rated value. • pH: 6.5 to 8.5 **Material of construction** • Casing/Impeller: SS (304)

Dynamic Dosing Pump

Specification	Application
• High Pressure Double Crank To Control The Die Opening And Closing. • Running In A High Automatization And Intellectualization,no Pollution Dynamic®, A Global Brand	• Simple Structure In Linear Type ,easy In Installation And Maintation. • Adopting Advanced World Famous Brand Components In Pneumatic Parts ,electric Parts And Operation Parts. • Apply A Linker To Connect With The Air Conveyor ,which Can Directly Inline With Filling Machine .

DPL Series High Pressure Multistage Pump

Duty Parameter	Application
• Standard high efficiency motor Eff1/IE2/IE3. • Efficiency up to 79% • Capacity: up to 12 m3/hr. • Head: up to 203 meter. • Temp: up to 30 °C. • Delivery Size: DN 25 • Mounting: Vertical inline. • Stage : 2 to 6. • Design pressure: 20 bar. Dynamic®, A Global Brand	• Water supply • Pressure boosting • Sprinkling System • General industry **Material of construction** • Casing: SS (304/316L) cast iron. • Impeller: SS(304/316L)

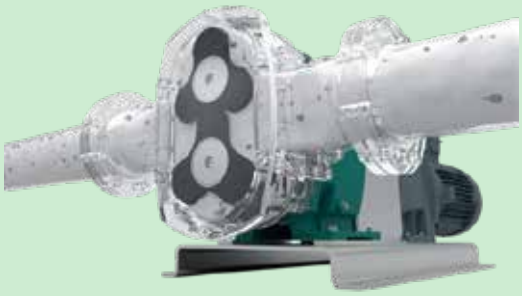
DP Series High Pressure Multistage Pump

General Description	Application
• Standard high-efficiency motor Eff1/IE2/IE3. • Capacity: 1 to 30 m3/hr. • Head: 20 to 230 meters. • Temp: 20°C to 120 °C. • 0.75KW to 18.5KW • Delivery Size: DN 25 to DN 100 • Stage: 2 to 26. • Design pressure: 25 bar. Dynamic®, A Global Brand	• Domestic water supply • Utility • Cooling water transport • Fire fighting • Food, chemical and process industry • Irrigation **Material of construction** • Casing: SS (304/316L) cast iron. • Impeller: SS(304/316L)

NETZSCH
Proven Excellence.

NEMO® Progressing Cavity Pumps

Further Advantages	Application
• Wearing parts can easily be replaced • Up- or sideward removal of the rotor-stator unit reduces installation space both with conventional stator and with eco-friendly iFD-Stator® • Various rotor/stator geometries and a large spectrum of materials • Robust and compact block construction • The right joint for any application available • Easy maintenance • Standard mechanical seal, other seals optional **NETZSCH,** Brand of Germany	• Environment & Energy • Chemical, Pulp & Paper • Food & Pharmaceuticals • Mining • Oil & Gas Mid- / Downstream • Oil & Gas Upstream • Battery



TORNADO® Rotary Lobe Pumps

Further Advantages	Application
• Oil-free belt drive ensures less vibration and stress on components • Low-pulsation housing design • Individual design according to your requirements • Insensitive to dry running • Can handle any type of inhomogeneous, gaseous and abrasive media with solids **NETZSCH,** Brand of Germany	• Environment & Energy • Chemical, Pulp & Paper • Food & Pharmaceuticals • Mining • Oil & Gas Mid- / Downstream • Oil & Gas Upstream • Battery

PERIPRO® Peristaltic Hose Pumps

Specification	Application
• Long service life of the hose thanks to large rollers • Insensitive to dry running • Easy conveying of large solids and fibres • Easy to service • Very low lubricant consumption • Extremely high suction capacity • Gentle and reversible conveying possible • High dosing accuracy • Corrosion resistant **NETZSCH,** Brand of Germany	• Environment & Energy • Chemical, Pulp & Paper • Food & Pharmaceuticals • Mining • Oil & Gas Mid- / Downstream • Oil & Gas Upstream • Battery

NOTOS® Multi Screw Pumps

Duty Parameter	Application
• Easy maintenance • Low life cycle costs • Wide range of applications • Wide range of materials • Optionally according to API 676 (American Petroleum • Institute) requirements **NETZSCH,** Brand of Germany	• Environment & Energy • Chemical, Pulp & Paper • Food & Pharmaceuticals • Mining • Oil & Gas Mid- / Downstream • Oil & Gas Upstream • Battery

N.Mac® Inline Twin Shaft Grinder

General Description	Application
• Bearing and mechanical seal cartridges to protect the bearings • Optional cleaning brush fro fibrous materials removes material in the gap between the blades • Cutting devices in the cartridge system • Modular design of the cutter blocks allows individual combinations • Retractable suspension lugs to facilitate disassembly **NETZSCH,** Brand of Germany	• Environment & Energy • Chemical, Pulp & Paper • Food & Pharmaceuticals • Mining • Oil & Gas Mid- / Downstream • Oil & Gas Upstream • Battery

SWIMMING POOL: ACCESSORIES

HEATING SYSTEM

Heat Pump

FEATURED HIGHLIGHTS

- The easiest and most economical way to maintain the right water temperature of your commercial swimming pool facility.
- Heating capacity from 13Kw up to 210Kw.
- Cooling capacity from 8.8Kw up to 150Kw.
- Heat pumps are CE/Rohs/Reach Certified.

Heat Exchanger & Heater

FEATURED HIGHLIGHTS

- High quality acid resistant AISI-316 stainless steel
- Suitable for swimming pools of up to 450 m³
- Seamless pipes with high heat exchange capacity
  - » Element, flow and high temp 'on' Lights
  - » Element fusing on units rated hour over 48 Amps
  - » Heavy duty contactors

PUMPING SYSTEM

Recirculation Pump

FEATURED HIGHLIGHTS

- Self- priming pump for swimming pools.
- Suitable for continuous free.
- Swivel unions included for easy assembly.
- Thermal protection on single phase unit.
- Single body provides for quiet operation.
- Performance with low power consumption.

SWP Pump

FEATURED HIGHLIGHTS

- Smooth hydraulic passages to increase pimp efficiency
- Heavy duty shaft minimizes deflection to maximize mechanical seal life
- Tapered polygon impeller provides high capacity and greater efficiency
- IPX5 Waterproof

DISINFECTION SYSTEM

Salt Chlorinator

FEATURED HIGHLIGHTS

- Easy to install, maintain and replace
- Maximum working pressure: 2.5 bar
- Minimum piping modifications installation
- Long cell lifetime
- Perfectly suited for magnesium salted pools
- Affordable spare part

Chemical Feeder & NanoTech UV-C

FEATURED HIGHLIGHTS

- Automatic sanitization pools up to 608,000 L
- Sanitizing large residential & commercial pools
- Heavy duty & high capacity feeders
  - » Continued performance 85% after12000 hours
  - » High relative power density operating
  - » Lamp power to protect over-heating

FILTER SYSTEM

Sand Filter

FEATURED HIGHLIGHTS

- Maximum working pressure 3.5 Bar.
- Non Corrosive material.
- Maximum operating temperature 50ºC.
- UV resistant surface.
- Design for 4x safety factor.
- Sizes available from 18'' to 48'' diameter.

Cartridge Filter & Bio-Filter

FEATURED HIGHLIGHTS

- NSF listed.
- Continuous High Flow™ internal air relief.
- High Flow manual air relief valve.
- Injection moulded tank.
- Balanced hydraulic flow.
- 100% factory tested

POOL LIGHT FITTING AND CLEANING EQUIPMENT

Pool Lights

FEATURED HIGHLIGHTS

- Energy efficient underwater LED Light.
- Nice Aesthetic with ABS Body.
- Screwable fitment to both Wall Conduit.
- Lamp life up to 50,000 Hours.
- Low Heating.
- High Quality Silicone Cable.

Pool Fittings & Cleaning Equipment

FEATURED HIGHLIGHTS

- Automatic inground pool cleaner.
- Superior vacuum power and extra-wide mouth capture large & small debris with ease.
- Built-in bumper assures free movement around steps and hands-free operation.
- Installs in minutes without tools to skimmer.

RO Antiscalant

RO Antiscalant: Model & Application

Dynamic®, A Global Brand

• GTEK BS	- BWRO high Barium sulphate
• GTEK CAS	- BWRO high Calcium sulphate
• GTEK LF	- Broad Spectrum BW & SWRO, metal ion sequestrant, desalination sys.
• GTEK MP	- Large municipal BWRO Broad spectrum
• GTEK MG	- Elevated pH 2nd pass boron rejection Magnesium hydroxide specific
• GTEK PHO	- High Calcium phosphate, WWRO
• GTEK RC	- Small BWRO & reject recycle systems
• GTEK SI	- BWRO high silica
• GTEK WB	- Small mains fed systems, with dechlorinator
• GTEK LS	- Brackish/Sea water low metals
• GTEK SW	- Seawater antiscalant and dispersant, phosphorous free

Biocide & Membrane Cleaner

Biocide: Model & Application

Dynamic®, A Global Brand

• GSL 30	- Fast acting biocide - Biofouling removal
• GSL 32	- Biocide - Biofouling removal & preservation

Membrane Cleaner: Model & Application

• GSL 34	- Alkaline chelant, surfactant - Organics, biofouling, sulphate & silica
• GSL 36	- Anionic surfactant - Organics & biofouling
• GSL 38	- Mild acid dispersant - Metal & inorganic scales
• GSL 40	- Alkaline detergent, surfactant - Biofouling, organics and clay removal
• GSL 50	- Alkaline chelant - Inorganic and organic deposits
• GSL 61	- Neutral pH cleaner - Inorganic and organic deposits
• GSL 701	- Acidic powder, detergent, chelant, surfactant, effervescent - Metal & inorganic scales
• GSL 703	- Alkaline Powder, detergent, chelant, surfactant, - Clay & biofouling, organics
• GSL 704	- Alkaline powder, detergent, chelant, surfactant, effervescent, microbubble technology

Flocculants & Dechlorinator

Flocculants: Model & Application

Dynamic®, A Global Brand

• GFL ABF	- Bio - fouled water source, open ponds, alga & biostat
• GFL GPF	- Membrane compatible flocculant
• GFL PWF	- Drinking water approved

GFL RED: Model & Application

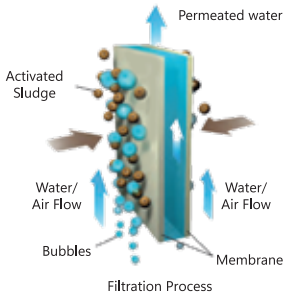
- Suitable for RO and Nano - Filtration membranes
- Compatible with all types of polyamide membrane
- Removes Chorine from feed water
- Suitable for use in drinking water and food industry applications

MBR Module

Mann+Hummel, Brand of Germany

Small Footprint 1/3rd of conventional
High quality of treated water

BOD	: < 5.0 ppm
TSS	: < 3.0 PPM
Turbidity	: < 1.0 NTU
Series	: BIO-CEL®
Brand	: Mann+Hummel
Manufacture	: Germany



Dynamic Heat Pump

DYNAMIC Swimming Pool Heat Pumps

Dynamic®, A Global Brand

- DYNAMIC offers a comprehensive range of swimming pool heat pumps for residential and commercial applications.

Applications:

- Residential pools (in-ground & above-ground).
- Hotels, resorts and clubs.
- Commercial aquatic facilities.

Key Features:

- High energy efficiency.
- Operates efficiently at ambient temperatures above ~5 °C.
- Eco-friendly refrigerants.
- Rust free, durable, weather-resistant construction.
- Suitable for both in-ground and above-ground pools.

Filtration Media - Katalox Light

Advantages

- High content MnO2 coating (10%)
- Very High Surface Area
- Contains NO Crystalline Silica
- Higher Filtration rates
- Filtration of sand, sediment and suspended solids, down to 3 micron

Katalox Light, Brand of Germany
Packing: 30 Kgs/Bag

Removal of

- Iron (upto-100 ppm)
- Manganese (upto-20 ppm)
- Hydrogen Sulfide
- Arsenic
- Radium
- Heavy Metals
- Radionuclides

Iron Removal Media - Manganese Dioxide

Physical Properties

• MnO_2, MnO_2:	35 %, 10-20 %
• SiO_2:	17-20 %
• Fe:	20 %
• Bulk Density:	2.2 g/cm
• Mesh Size:	2-4 mm
• Proportion:	3.4 g/cm
• Hydrochloric acid solubility:	< 3.5 %
• Dust content:	< 3 %

Dynamic®, A Global Brand
Packing: 30 Kgs/Bag

Advantages

- Iron reduction over wide pH range.
- Effective reduction of hydrogen sulfide in addition to iron and/or manganese.
- No harmful effects from a chlorine feed.
- Low attrition for long bed life.

Coconut Shell Activated Carbon

Specification

- Coconut shell based activated carbon
- Particle size distribution: 92% min
- Bulk density: 0.45-0.55 g/ml min
- Hardness: 98% min
- Test method: ASTM, unless otherwise tested
- Moisture: 5% max
- Ash: 3% max
- Iodine Adsorption: 1050 mg/g min

Dynamic®, A Global Brand
Packing: 25 Kgs/Bag

Iron Removal Media - Manganese Zeolite

Manganese Zeolite

- Color: Brown
- Bulk Density: 80 lbs./cu. ft.
- Specific Gravity: 2.4-2.9
- Effective Size: 0.30-0.35 mm
- Uniformity Coefficient: 1.6
- Maximum water temperature: 80°F/26.7°C
- Mesh Size: 18-60
- Water pH range: 6.2-8.5
- Bed depth: 30 inch

Zeomangan, Brand of Taiwan
Packing: 30 Kgs/Bag (1cft)

Anthracite - Filter Media

Chemical & Physical Data

Chemical Composition

• Carbon	: approx. 92.0 %
• Ash content	: not more 5.0 %
• Sulfur content	: not more 1.0 %
• Moisture content	: not more 3.0 %

Dynamic®, A Global Brand
Packing: 25 Kgs/Bag (1cft)

Features

Physical Characteristics

• Acid solubility	: not more 1.0 %
• Main grain size	: not less 90.0 %
• Volatile matter	: not more 3.5 %
• Density	: 1600 kg/m3
• Bulk density	: approx. 900 kg/m3
• Attrition loss	: not more 0.3 %
• Refinability	: not more 3.0 %
• Hardness	: 4 Mohs

Ion Exchange Resin - Dynamic

Specification :

Model: 001x7-1.3 & 001x7-2.0

• Type	Sodium type
• Appearance	Golden to brown global granule
• Wet apparent density	0.77 - 0.87 g/ml
• Moisture Content	46 - 52 %
• Wet true density	1.24 - 1.28 g/ml
• Grain size	≥ 95 (0.315 - 1.25 mm)
• Sphere rate after abrasion	≥ 95 %
• Complete exchange capacity	4.5 mmol/g

Dynamic®, A Global Brand
Packing: 25 L Bag

Cation Resin

001x7-1.3 Styrene Series Strongly Acidic Cation Exchange Resin

Chemical & Physical Data

• Ionic form	Na+	• Lower limit size	(<0.315mm) ≤1.0 %
• Moisture content	45.00-50.00 %	• The effective size	0.400-0.700 mm
• Total exchange capacity	≥4.50 mmol/g	• Uniformity coefficient	≤1.60
• Total exchange capacity	≥1.90 mmol/ml	• Sphericity after attrition	≥90.00 %
• Shipping weight	0.77-0.87 g/ml	• pH range	1-14
• True density	1.250-1.290 g/ml		
• Particle size range	(0.315mm-1.250mm) ≥95.0 %		

Dynamic®, A Global Brand
Packing: 25 L Bag

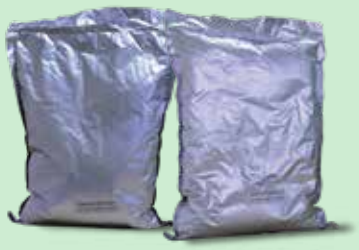
Anion Resin

001x7-2.0 Styrene Series Strongly Basic Anion Exchange Resin

Chemical & Physical Data

• Appearance	Flaxen to chryso spherical grain		
• Ionic form	Cl-	• True density	1.06-1.10 g/ml
• Moisture content	50.00-60.00 %	• Particle size range	(0.315-1.25mm) ≥95 %
• Total exchange capacity	≥4.00 mmol/g	• Lower limit size	(<0.315 mm) ≤1 %
• Strong f. exchange capacity	≥3.70 mmol/g	• The effective size	0.45-0.70 mm
• Total exchange capacity	≥1.10 mmol/ml	• Uniformity coefficient	≤1.60
• Shipping weight	0.66-0.71 g/ml	• Sphericity after attrition	≥90 %
		• pH range	1-14

Dynamic®, A Global Brand
Packing: 25 L Bag



Mixed Bed Resin

Dynamic Mixed Bed Resin

Chemical & Physical Data

• Appearance	Gel type beads
• Matrix	Styrene - DVB
• Functional Group	Sulfuric acid/quaternary amine
• Ionic Form	H+/OH-
• Moisture Content	53 - 63 %
• Granularity (0.45-1.25mm)	min 95 %
• Uniformity Coefficient	1.60 min
• Regeneration Level	min 99/85 %

Dynamic®, A Global Brand
Packing: 5 L Bag

FRP Vessel

Specification

- Shell layer: Fiber glass
- Liner material: PE
- Max. test pressure: 150 psi
- Max. working pressure: 100 psi
- Temperature range: 1-49°C
- Max. vacuum: 5" Hg (127 mm Hg)

Dynamic®, A Global Brand

Features

- High Strength and durable FRP shell
- Corrosion resistant
- Light in weight
- High impact strength
- Superior outlook
- Easy to handle & install
- Maintenance free

Ozone Generator

General Description

Ozone generator (Ozonator) is designed specifically for disinfection and oxidation of water in industrial, laboratory and pilot plant applications. Typical applications include drinking water, process water loops, recycling processes, food and beverage industries, cooling towers, aquaculture, aquariums and swimming pools. Our Ozone Generator comes complete with pre-installed fittings and all required tubing, enabling, it to be installed and running in less than ten minutes.

Dynamic®, A Global Brand

Features

- Oxygen concentrators feature professional rotating distribution valves for reliable and long service life
- Extra oil-less pump synchronization socket outlet
- Adjustable indicates oxygen flow through systems
- 0 -100% ozone output variable
- Door switch, overheating switch
- Gray ABS engineering plastic enclosure
- Air cooled, Floor mounted.

RO Membrane

General Description

- Type of Membrane: Sea Water, Brackish Water, Tap Water, Low Pressure and Low Fouling
- Size of Membrane: 4040 and 8040
- Salt Rejection: Min 97%
- Feed Water pH Limit: 3 – 10
- Feed Water Turbidity: Max 1 NTU
- Feed Water SDI: Max 5
- Membrane Polymer: Composite Polyamide
- Brine Spacer Materials: Polypropylene
- Max Operating Pressure: 6000 psi

Microdyn, Mann+Hummel, Brand of Italy
Dynamic®, A Global Brand

RO Membrane Housing

Quality Assurance

- 100,000 times cycle test
- Brust test with 6 times of its operating pressure
- 100% QA test with 1.1 time stage elevation of hydraulic pressure
- 100% QA inspection and cleaning before final packaging and delivery to the customer

Dynamic®, A Global Brand

Features & Specification

- High strength, smooth inner surface and durable FRP shell.
- End Cap of RO Housing: PA66+30% GF
- O-Ring of RO Housing: EPDM
- Feature of Housing: Non Corrosive and Maintenance free.
- Available Size: 4040 (up to 4 Element) and 8040 (up to 6 Element)

Bag Filter

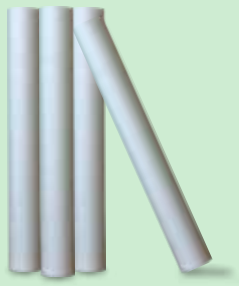
General Description

A Bag Filter works by the principle of microfiltration. The liquid is purified in bags by passing small permeable pores. Bag Filters can be used for large amounts of water. The sizes of these pores are between the 1-200 micron.

Dynamic®, A Global Brand

Application

- Industrial and commercial fluids
- Urban runoff
- Groundwater discharge from construction sites
- Construction and industrial storm water
- Activated carbon, final or pre-filtration
- The removal of hydrocarbons from water, and reverse osmosis



Micron Filter Cartridge

Specification

Dimension

- Inside Diameter: 28mm, 30mm
- Outside Diameter: 63mm, 115mm or up to customers' request
- Length: 9.75",9.87",10",20",30",40",50",60"

Dynamic®, A Global Brand

Material Of Construction

- Filter media: PP
- Cores: PP
- Gaskets/O-ring: Silicone, EPDM, NBR, Viton

Micron Filter Housing

Specification

- MOC: uPVC / SS
- Type: Cartridge Filter
- Connection Size: 2", 3", 4"
- Connection Type: SMS Union, Flanged
- Suitable Cartridge Sizes: 20", 30", 40" (3,5,8,9 Nos and more)

Dynamic®, A Global Brand

Features

- 100% Quality Guarantee
- Min. Pressure Drops
- High Flow Rate
- Single Base Material
- Easy to clean
- High dirt holding capacity
- Easy to installation

Automatic Self-cleaning Screen Filter

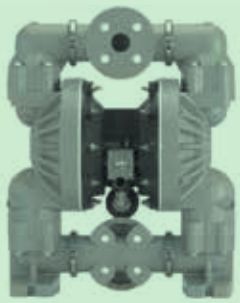
General Description	Application
• Flow Range per Filter: 7 to 2274 m 3 /hr • Screen Options: 10 to 1500 Micron • Flush Cycle: 12 to 15 Seconds • Flange Sizes : 3" to 40" • Max Pressure : 10 bar • Min Pressure: 2 bar • Max Temp: 80°C **Evoqua, Brand Of USA**	• Pre-Filtration to: • RO/UF Membrane • UV • Arsenic Removal • Bag/Cartidges • Cooling Tower • Side Stream System • Basin Recirculation System • Seawater • Well Water • River Water

Continuous Electrodeionization (CEDI)

General Description	Application
• Flow Range: 0.1 to 22.7 m 3 /hr • Feed Water Conductivity : < 40 µS/cm • Product Conductivity : < 0.1 µS/cm • Operation Temperature: 5 – 60 ° C • Inlet Pressure : < 6.9 bar • Recovery : 90 – 95 % • Silica (SiO2) Removal : 90 – 95% • Hardness: Up to 4 ppm • Silica: upto 2 ppm **Ion Pure, Brand Of USA**	• Power Generation • Micro Electronics • Biopharmaceutical • Autoclaves and Clinical Analyzer • High Purity Water System for Laboratory Use • Industrial Deionized Water

UV Generator

Specification	Application
• 1-18 Multi Lamp Configurations • High Capacity Treatment Upto 5000 m3/hr in a Single System • 9000 hr Lamp Life • 5 year Quartz Life • Automatic Power Stepping 100%- 30% • High Disinfection Efficinecy -1 to 5 log • Low Head Loss • Dry UV Monitor and Temperature Probes • Improves Taste , Color, pH and Odor **Evoqua, Brand Of USA**	• Municipal Drinking Water • Industrial Process Water • Food and Beverage Process Water • Oil & amp; Gas Application • Water Treatment • Waste Water Treatment



Pneumatic Diaphragm Aro Pump

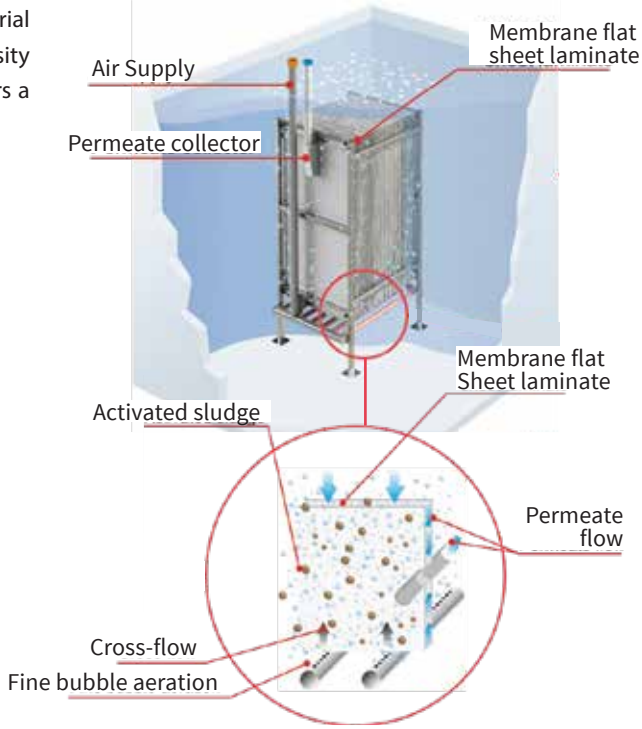
Duty Parameter	Application
• Discharge: 3.27 m3/hr - 32.93 m3/hr • Pressure: 6.8 bar to 8.3 bar • Diameter: ½" to 2" • Max Temp: 150º F **Material of Construction** • Casing - Grey Cast Iron, SS • Impeller - Grey Cast Iron, Bronze, SS and Duplex SS **ARO, Brand of USA**	• Industrial fluid transfer especially raw acid. • Dewatering or water removal • Filling, dispensing and metering due to their efficiency and accuracy • Gasoline supply • Air conditioning systems • Chemical movement **Design Features** • Body: PP (Polypropylene) • Diaphragm: PTFE (Polytetrafluoroethylene)

Rostfrei Tanks

General Description	Application
• Glass Fused Tank serve for More than 40 years • Abrasion and Chemical resistance is quite high • Construction methodology is very quick and safe • Prebuilt Tank is easily relocatable **Rostfrei, Brand of India**	• ZLD Tanks • ETP Tanks • STP Tanks • Silos / Tanks • Hot Water Tank • Condensate Water Tank • Fire Water Tank • Molasses Tank • Digester Tank • Brine Tank

Bio-Cell Submerged MBR Solutions

The BIO-CEL® MBR series is ideal for biological wastewater treatment in industrial and municipal applications. The module has an extremely high packing density due to the thin and self-supporting membrane sheets and the laminate offers a self-healing mechanism.



Origin: Germany

Application

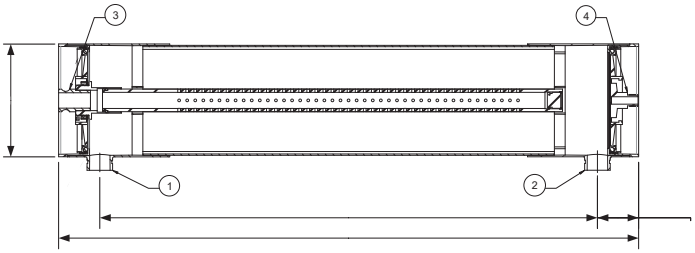
- Water recycling in buildings
- Wastewater treatment for small communities
- Municipal wastewater treatment
- Industrial wastewater treatment
- Agricultural wastewater processing
- Fields of landfill leachate, sludge digestion, and human excrement

ADVANTAGES

- High effluent quality (effective retention of solids and bacteria)
- Smart module design (less braiding and sludge depositions)
- Back flushable module based on flat sheet membranes
- Small footprint (high packing density)
- Reduced energy demand
- Unique membrane laminate with self self-healing effect
- Optimized oxygen transfer (fine bubble aeration)

Microdyn RO, NF And UF

MICRODYN RO is capable of rejecting over 99.5% of dissolved salts (ions), particles, organics, and more from the feed water.
Available in standard 4" and 8" spiral wound designs with a high rejection BW RO membrane or a low energy (LE) RO membrane to meet all your new equipment and direct replacement needs.



Origin: Italy

MICRODYN NF membranes are designed to remove organic substances like micro pollutant sandmultivalent ions. NF membranes partially demineralize water, removing between 10% and 90% of dissolved salts.

MICRODYN NF include water softening and removal of pesticides, color, and nitrates. A proven cost-effective technology to remove harmful heavy metals,disinfectant by products, organics, hardness, TDS, nitrates, and color to meet safe drinking water quality requirements.

Origin: Italy

AQUADYN® UF modules use a unique 0.025-micron polyacrylonitrile (PAN) hollow fiber membrane that is hydrophilic, low-fouling, high-flux, and double asymmetric. The double asymmetric property allows the membrane to reject bacteria, solids, and turbidity more effectively due to a filtration layer inside and outside the hollow fiber. Therefore, problems such as pore clogging during backflush do not occur.

The AQUADYN series offers a comprehensive range of filtration modules for a wide spectrum of applications.

Origin: Germany

WHAT IS KATALOX LIGHT®?

KATALOX LIGHT® is a new brand of revolutionary advanced filtration media completely developed in Germany. It's composition simply makes it outstanding against the contemporary filter media available in water treatment industries, like sand, BIRM, Greensand Plus, Manganese Greensand etc. KATALOX LIGHT® is manufactured in Germany.

KATALOX LIGHT® is engineered with unique MnO2 coating technique on ZEOSORB®, providing it light weight, higher filtration surface, more service life and more reliable performance (filtration down to 3 µm) than any other existing granular filter media.

KATALOX LIGHT® is being used in numerous system for residential, commercial, industrial and municipal applications worldwide. Suitable for high level filtration, color and odor removal, Iron, Manganese, Hydrogen sulfide removal, efficient reduction of Arsenic, Zinc, Copper, Lead, Radium, Uranium and other radionuclides and heavy metals.

KATALOX LIGHT® is ANSI/NSF 61 Certified for drinking water applications and has met the ANSI/ NSF 372 Lead free compliance.

"The Best" compared to other products in the market?

Much higher gamma Manganese coating (10%) for better filtration, more service life, while keeping the bulk density close to the density of water 1000 kg/m^3 (Katalox-Light® Bulk Density: 1060 kg/m^3) .

Heavier the media requires higher backwash rates and extra pumps (Energy) to backwash. Velocity of 60 – 98 m/h (25 – 40 gpm/ft^2) Backwash and rinse rate is normal for Heavier media.

Advantages

- High content MnO2 coating (10%)
- Very High Surface Area
- Contains NO Crystalline Silica
- Light Weight - providing significant savings on backwash water
- Higher Filtration rates
- Filtration of sand, sediment and suspended solids, down to 3 micron
- High efficiency removal capacity of Iron, Manganese and Hydrogen sulfide
- Effective reduction of Arsenic, Zinc, Copper, Lead, Radium, Uranium, radionuclides and other heavy metals
- Media replacement every 7 - 10 years
- No disinfection by-product
- No mandatory KMnO4, chlorine or chlorine dioxide dosing
- Low operational costs
- Unique product, unmatched by our competitors

Removal of

- Iron (upto-100 ppm)
- Manganese (upto-20 ppm)
- Hydrogen Sulfide
- Arsenic
- Radium
- Heavy Metals
- Radionuclides

Filtration of

- Less than 3 micron
- Suspended solids
- Sediments
- Turbidity
- Organics
- Color
- Odor

Origin: Germany

ZEOMANGAN
MANGANESE ZEOLITE
GREEN GENESIS®
ENGINEERING LIMITED
The Only Authorized Distributor In Bangladesh

Zeomangan — Advanced Manganese Zeolite Filter Media

Zeomangan is a premium water filtration media designed to improve water quality by removing dissolved iron, manganese and hydrogen sulfide from raw water sources. Manufactured from activated manganese rich zeolite granules, it is ideal for both residential and industrial water treatment systems.

Key Features

- Efficient Iron & Manganese Removal Zeomangan quickly oxidizes soluble iron (Fe2+) and manganese (Mn2+) into insoluble oxides, allowing them to be effectively filtered out of water.
- Hydrogen Sulfide Elimination Capable of reducing foul odors from H_2S, improving taste and overall water quality.
- Versatile Use Suitable for well water, groundwater and other highly contaminated sources. Compatible with both closed pressure systems and open gravity filters.
- Catalytic Oxidation Acts as a catalyst to speed up oxidation reactions, enhancing treatment efficiency without additional aeration.

How It Works

Zeomangan removes contaminants through a combination of oxidation, adsorption and filtration:

1. Oxidation: Manganese compounds in the media oxidize soluble iron and manganese ions in the water, converting them into solid particulates.
2. Particle Capture: Insoluble particles are retained within the media bed through physical filtration.
3. Regeneration: For continuous operation, periodic regeneration with potassium permanganate ($KMnO_4$) and chlorine may be applied to maintain surface activity and performance.

Applications

Zeomangan is widely used in:

- Residential well water systems
- Rural and agricultural water purification
- Industrial water treatment
- Pre treatment for reverse osmosis or other filtration systems

Benefits at a Glance

- Reduces iron and manganese levels
- Improves water clarity, taste and odor
- Enhances performance of downstream filtration units
- Works in multiple system types
- Low operational cost and long service life

Technical Specifications

Parameter	Value
Material Type	Manganese Zeolite (ceramic granule)
Color	Purple black
Grain Size	16–30 mesh (≈0.65 mm)
Apparent Density	~1.0g/mL
Effective pH Range	6.2– 8.5
Max Operating Temp	25°C
Recommended Backwash Rate	40–50 m/hr
Service Flow Rate	5–12 m/hr
Minimum Bed Depth	≥ 70 cm

—Made in Taiwan—

Dynamic® - RO Membrane

HOW RO WORKS

The RO membrane is semi-permeable, which means it allows water to pass through the membrane while it is not permeable to other species. The RO membrane is very good at rejecting many species such as viruses, bacteria, salts, but for an RO membrane to work, one has to apply a net driving pressure (i.e. a pressure greater than osmotic pressure that is created by the soluble salts in water).

Once the net driving pressure is applied, the RO membrane will begin to produce permeate (product) water. There are mainly 4 different factors (feed water concentration, feed water temperature, operating pressure and % recovery) that affect the performance of RO membranes. We will discuss how these factors can affect the performance of RO later.

The RO membrane can be configured in different ways (such as plate & frame, hollow fiber, spiral wound), but the most efficient and economical configuration is spiral wound configuration One can think of a spiral wound RO membrane element as an envelope analogy. An envelope (outer side of envelope is membrane barrier side) has three sides sealed (urethane glue is applied on three sides of membranes to seal to separate permeate water from feed water) and only one side is open (where permeate water flows out). The spiral wound RO membrane element is an envelope that is wound around the tube with holes where permeate water comes out. The spiral wound RO membrane element works on cross-flow filtration principle. Unlike dead-end filtration where there are only feed and product streams, cross-flow filtration has three streams (feed, permeate and concentrate streams). When sufficient net driving pressure is applied to spiral wound reverse osmosis membranes, feed water enters the spiral wound RO membrane element and permeate water is produced. The third stream is the concentrate or reject stream. Concentrate/reject stream contains whatever is rejected by the RO membrane. Cross flow filtration can never be operated at 100% recovery since it always has to have 3 streams. If it is operated at 100% recovery, then there would only be feed and permeate streams and there would be no concentrate/reject stream.

Dynamic®, A Global Brand

Dynamic Industrial Reverse Osmosis membranes are suitable for a wide range of commercial and industrial applications and are available in standard sizes up to 8" diameter and 40" length. High-flow option for higher permeate production are also available. Dynamic Reverse Osmosis Membrane elements are among the finest in the industry. With hundreds of thousands of RO membranes in operation world-wide, Dynamic RO Membranes are Made under guideline of the USA Technology. Each reverse osmosis membrane element meets or exceeds our strict performance requirements before shipping.

For the quality we have earned a reputation of delivering consistent, high quality which makes Dynamic Membranes the natural choice for use in RO water treatment systems.
The use of Dynamic reverse osmosis membranes in the water treatment industry is standardized practice, due to the requirement of filtration to take place in removing unwanted impurities from water. Membrane water treatment is done through the use of barriers that allow only specific substances to pass through the small pores of the membrane while not allowing other types of contaminants.

Key Advantages

- Effective removal of dissolved solids
- Versatile: suitable for verious applications
- High-quality water production
- Cost-effective technology when compared to thermal processes

Features

- High desalination rate
- High flow
- Contamination-resistant

Applications:

- Municipal drinking water
- Semiconductor industry
- Pharma
- Food and Beverage
- Boiler feed water
- Ground and surface water treatment
- High-Purity industrial applications
- Municipal wastewater reclamation

Product Specification:

Model	Active Membrane Area ft² (m²)	Operate Pressure Psi (MPa)	Average Flow GPD (m³/d)	Rejection (%)	Recovery (%)
DEM11-2514	8 (0.7)	110 (0.76)	250 (0.9)	98.5	5
DEM11-2521	13 (1.2)	110 (0.76)	350 (1.3)	98.5	8
DEM11-2540	28 (2.6)	110 (0.76)	800 (3.0)	99.0	15
DEM11-4021	36 (3.3)	110 (0.76)	1000 (3.8)	99.0	8
DEM11-4040	85 (8.3)	110 (0.76)	2600 (9.8)	99.0	15
DEM12-8365	365 (34)	110 (0.76)	10000 (38)	99.0	15
DEM12-8400	400 (37)	110 (0.76)	11000 (42)	99.0	15

Note: Test Conditions

1. Permeate flow and salt rejection based on the following test conditions: 2000 ppm Nacl, 110psi (0.76Mpa), 77°F (25°C), pH 7.5, and above shown recovery.
2. Permeate flow rates for individual element may vary +/- 15 %.
3. Minimum rejection is 98.0 %.

Product Specification:

Model	Active Membrane Area ft² (m²)	Operate Pressure Psi (MPa)	Average Flow GPD (m³/d)	Rejection (%)	Recovery (%)
DEM11-2514XLP	8 (0.7)	100 (0.69)	400 (1.5)	98.5	5
DEM11-2521XLP	13 (1.2)	100 (0.69)	500 (1.9)	98.5	8
DEM11-2540XLP	28 (2.6)	100 (0.69)	1100 (4.2)	99.0	15
DEM11-4021XLP	36 (3.3)	100 (0.69)	1300 (4.9)	99.0	8
DEM11-4040XLP	78 (7.5)	100 (0.69)	3000 (11.3)	99.0	15
DEM12-8365XLP	365 (34)	100 (0.69)	12000 (45)	99.0	15
DEM12-8400XLP	400 (37)	100 (0.69)	13200 (50)	99.0	15

Note: Test Conditions

1. Permeate flow and salt rejection based on the following test conditions: 500 ppm Nacl, 100psi (0.69Mpa), 77°F (25°C), pH 7.5, and above shown recovery.
2. Permeate flow rates for individual element may vary +/- 15 %.
3. Minimum rejection is 98.0 %.

Product Specification:

Model	Active Membrane Area ft² (m²)	Operate Pressure Psi (MPa)	Average Flow GPD (m³/d)	Rejection (%)	Recovery (%)
DEM21-2540ULP	28 (2.6)	150 (1.05)	800 (3.0)	99.0	15
DEM21-4021 ULP	36 (3.3)	150 (1.05)	1000 (3.8)	99.0	8
DEM21-4040ULP	78 (7.5)	150 (1.05)	2700 (10)	99.5	15
DEM21-8365 LP	365 (34)	150 (1.05)	1100 (40)	99.5	8
DEM21-4040ULP	78 (7.5)	100 (0.69)	3000 (11.3)	99.0	15

Note: Test Conditions

1. Permeate flow and salt rejection based on the following test conditions: 2000 ppm Nacl, 150psi (1.05Mpa), 77°F (25°C), pH 7.5, and above recovery.
2. Permeate flow rates for individual elements may vary +/- 15 %.
3. Minimum rejection is 99.0 %.

Product Specification:

Model	Active Membrane Area ft² (m²)	Operate Pressure Psi (MPa)	Average Flow GPD (m³/d)	Rejection (%)	Recovery (%)
DEM30-2540BW	28 (2.6)	225 (1.55)	750 (2.8)	99.3	15
DEM30-2540BW	36 (3.3)	225 (1.55)	900 (3.4)	99.3	8
DEM30-2540BW	28 (2.6)	225 (1.55)	2400 (4.2)	99.5	15
DEM30-2540BW	36 (3.3)	225 (1.55)	9600 (36)	99.5	15
DEM30-2540BW	78 (7.5)	225 (1.55)	10600 (40)	99.5	15

Note: Test Conditions

1. Permeate flow and salt rejection based on the following test conditions: 2000 ppm Nacl, 225psi (1.55Mpa), 77°F (25°C), pH 7.5, and above recovery.
2. Permeate flow rates for individual elements may vary +/- 15 %.
3. Minimum rejection is 99.0 %.

Dynamic®, A Global Brand

We provide a comprehensive range of laboratory testing services for drinking water, wastewater and environmental water samples in accordance with applicable national and international standards. Our laboratories are equipped with state-of-the-art instrumentation, enabling the routine analysis of more than 40 water quality parameters.
Our technical and support teams offer expert assistance in addressing compliance requirements, process optimization and critical technical challenges within the water treatment and environmental management sectors.

REVERSE OSMOSIS PLANT

EFFLUENT TREATMENT PLANT

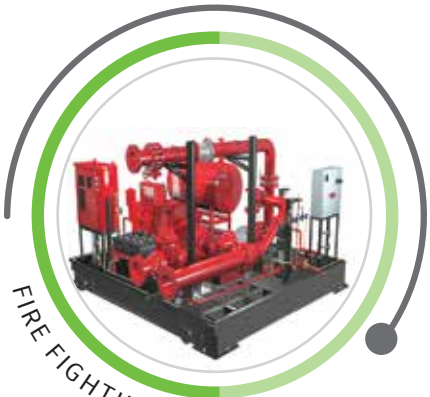
DTW-RIG

SEWAGE & WASTE WATER TREATMENT PLANT

CONSULTANCY SERVICES

PACKAGED STP

LABORATORIES SERVICES



FIRE FIGHTING SYSTEM

RESIDENTIAL AND COMMERCIAL WATER PURIFIER

Swimming Pool System with Fountain System, **Exim Tower,** Bir Uttam Ak Khandakar Road, Gulshan-1, Dhaka

20 m³/hr. ETP Recycling Water Treatment Plant With 2400' distribution Pipeline Work , **BRAC Dairy & Food Project,** Joydebpur, Gazipur

3 Nos. 2 m³/hr. WTP with 3000' distribution pipeline **Norp Knit Industry's Ltd.,** Gazipur

H Washing, ETP Plant, Mongla EPZ

8 m³/ hr. WTP, 7.5 m³/hr. MBBR STP, 7 m³/hr. WWTP, 7 m³/hr. RWHP and 10 m³/hr. WTP , **Prime Tower,** Khilkhet, Dhaka

7 Nos. 150 m³/hr, Iron Removal Plant, **Dhaka WASA**

Booster System at **Dynasty Home** Gulshan-2, Dhaka

Biochemical ETP, **Ayesha Clothing,** Jamgora, Dhaka

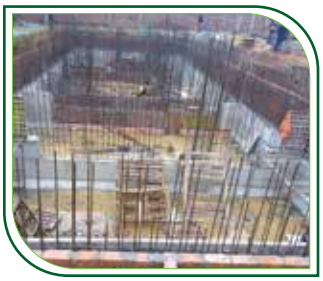
25 m³/hr. Safe Water Supply Throughout The Country **(PSWSC)**, Jagannathpur, Sunamganj

UF For ZLD **Qazi Abedin Tex Ltd.** Savar, Dhaka

5 m³/hr., 20 m³/hr. Water Softener Plant With Distributions Pump Installation, Commissioning at **Square Denim LTD.,** Valuka, Gazipur

Establishment of ETP at 14 Sugar Mills Under **BSFIC**

3500 m³/hr. Higher Flow Capacity Pump Installation Commissioning at **BWDB**, jessore



250 KLD MBBR STP For **Essential Clothing Ltd.,** Akulichala High School, Fulbari Road, Kaliakair

25 KLD Packaged STP For **Elevated Express Way,** Kuril, Dhaka

5 Set Booster System, 7 m³/hr. Rain Water Treatment Plant, 30 m³/hr. Raw Water Treatment Plant, 5 m³/hr. Recycle Water Treatment Plant., **House of Sunshine Knitwear Ltd. ,** Tejgaon, Dhaka

3.5 m³/hr. (STP-MBBR) **Ispahani Islamia Eye Institute & Hospital.** Farmgate, Dhaka

4 m³/hr. (STP-MBBR) **Fashion Pulse Ltd.** BSCIC Industrial Estate Tongi, Gazipur

3.5 m³/hr. Rain Water Harvesting Plant **DPHE**, Satkhira

STP & ETP Civil Work at **Bellevue Hospital,** Chattogram

Swimming Pool **Marriott Hotel (5 Star)** Joinabazer, Gazipur

24 KLD WWTP For **Oasis Hospital ltd. ,** Sylhet

Fountain System with Swimming Pool, **Aristo Tower,** Tejgaon Industrial Area, Dhaka

10 m³/ hr. Water Softening Plant **Health Care Formulation** Maona, Gazipur

Eight Towns Important & Infrastructure Project **(JETIIP),** Jamalpur

3 Set Booster System, **Palmal Arkay-2** Ashulia, Dhaka

10 m³/hr. WTP plant **Bata Shoe company,** Tongi, Gazipur

OUR VALUABLE CLIENT

According to Ascending order...

OUR VALUABLE CLIENT

According to Ascending order...

And many more. . .

OUR SOLUTION & SERVICES

- Sinking Deep Tube-Well
- Pumps and Pumping Systems
- Membrane Based Desalination Plant
- Mobile Water Treatment Plant
- Customized Drinking Water Treatment Plant
- Surface Water Treatment Plant for Home, Office and Industry
- Ultra- Pure Water Treatment Plant for Pharmaceutical Industry
- Complete Solution for Bottle/Jar Water, Swimming Pool and Spa Project
- Wide Range of Roots Blower, Diffuser, Sewage Pump and Industrial Pump
- Wide Range of Water and Waste Water Treatment Components
- Wide Range of Water Treatment Chemicals
- Rainwater Harvesting
- Effluent Treatment Plant (ETP)
- Waste Water Recycling Plant
- Sewage Treatment Plant (STP)
- Zero Liquid Discharge Plant (ZLD)
- Consultancy Services

GREEN GENESIS®
ENGINEERING LIMITED

/greengenesisbd
+880 1933 302535

Corporate Office:
House: B/113, Mosque Road, New DOHS, Mohakhali, Dhaka-1206, Bangladesh.
+880 1933 302535
karim@greengenesisbd.com
www.greengenesisbd.com
+88 09 638 00 9255

Sales & Service Office:
House: 6, Boundary Road 3, Block-Ka, Mirpur-2, Dhaka-1212, Bangladesh.
+880 1933 302 535
+88 09 638 00 9255

Nawabpur Branch (Showroom):
Shop# 92, Nawabpur Road (Waiz Machinery Market), Dhaka-1100.
+88 01898 777 647
+88 09 638 00 9255

Chattogram Branch:
House: Ground Floor- G2, SM Tower, 10 no. North Pahartali, Akbar Shah, AK Khan, Chattogram-4202, Bangladesh.
+88 01678 79 79 82

Khulna Office:
House No. 37, Nazirghat, Sher-e-Bangla Road, Nirala, Khulna-9100.
+88 01898 777 647
+88 09 638 00 9255

Sylhet Office:
Mubarak Tower, New Market, Laldighirpar, Sylhet - 3100.
+88 01898 777 647
+88 09 638 00 9255

Warehouse:
North Kalma, Savar Union, Ashulia-1341, Dhaka, Bangladesh.
+880 16 78 79 79 80
+88 09 638 00 9255

Version- 2026/1