

Water & Wastewater Treatment Unit



WATER & WASTEWATER TREATMENT UNIT

Wastewater
Treatment
Equipment

On-site &
Workshop
Full Services

Water
Industrial
Solutions

Water
Treatment
Chemicals

Commercial
Building
Services



OUR PARTNERS



WASTE WATER TREATMENT EQUIPMENT



Pre-Treatment



Primary Treatment



Secondary Treatment

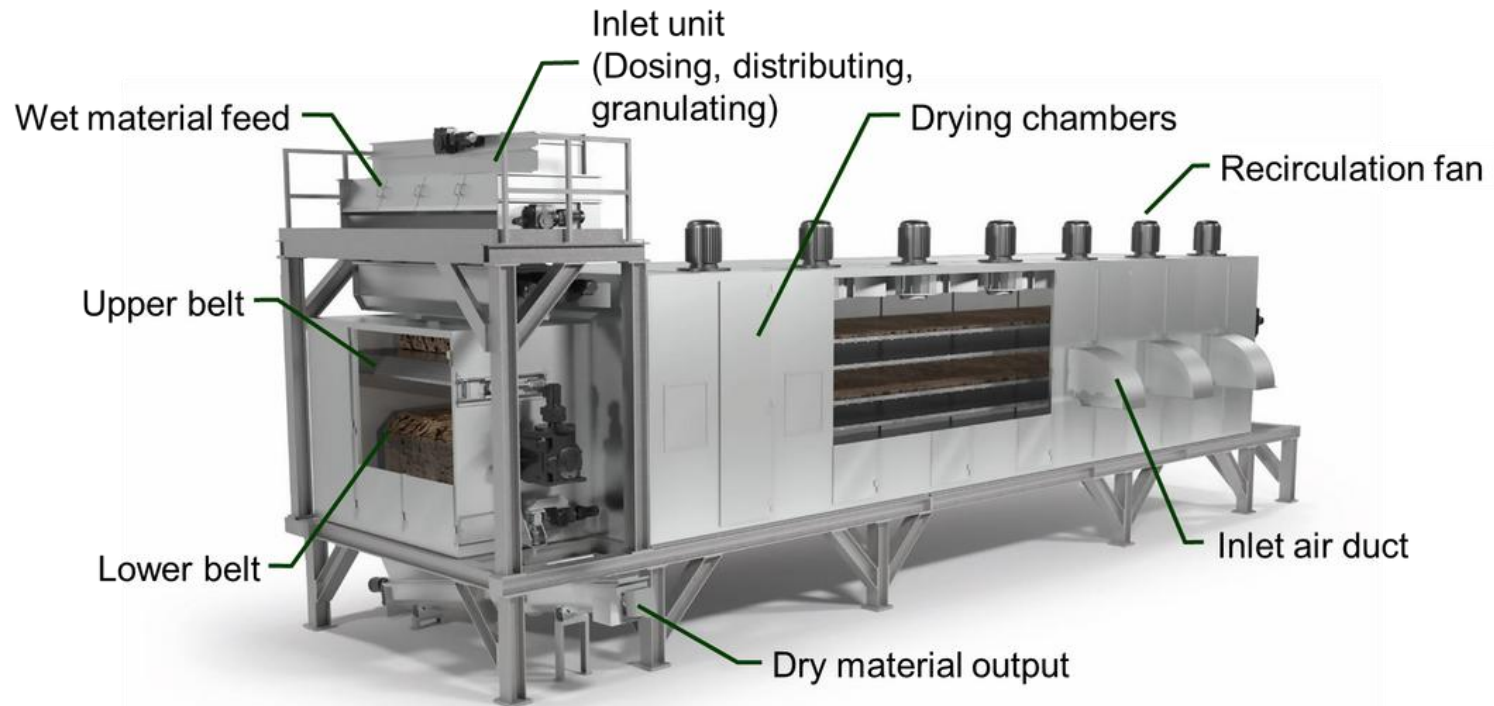


Sludge Treatment

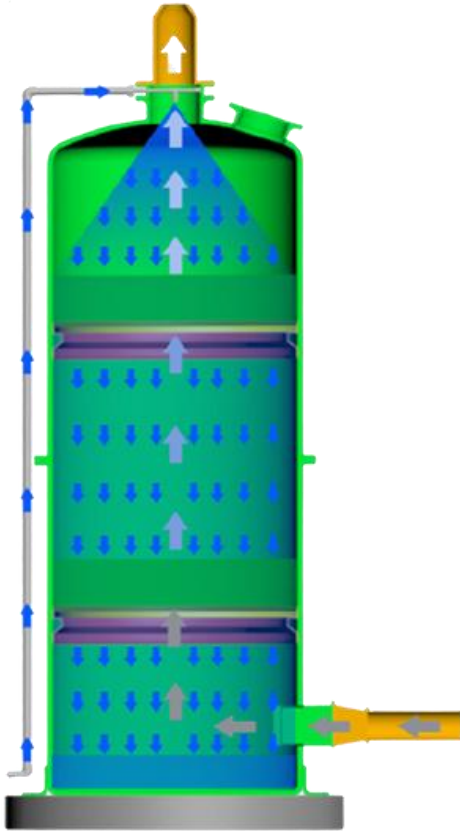


Tertiary Treatment

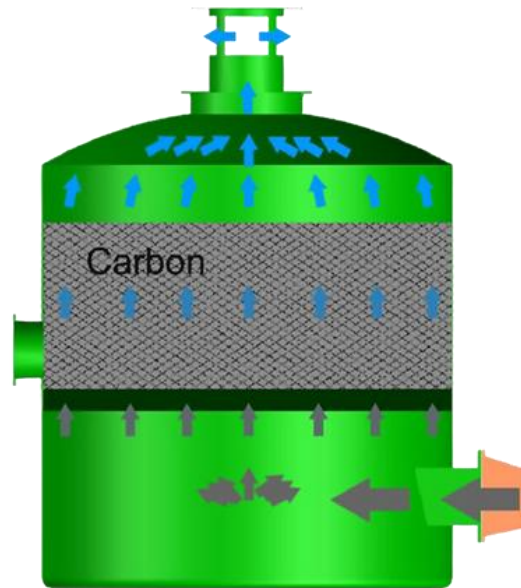
BELT DRYER



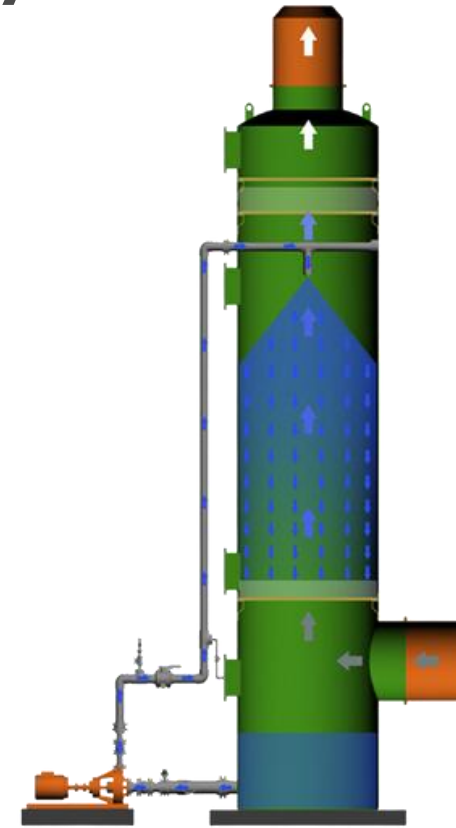
Air Pollution & Odor Control Systems TECHNOLOGIES



Bio Trickling Filter



Carbon Filter



Chemical Scrubber

SSI is a global leader in the design and manufacture of innovative, robust, and energy-efficient engineered **Membrane Diffusers**

- Fine Bubble Diffusers.
- Coarse Bubble Diffusers.
- Aeration Systems.





SP
SUBMERSIBLE PUMPS

Flow, Q: max. 468 m³/h
Head, H: max. 810 m
Liquid temp.: max. +60 °C
Submersible depth: max. 600 m
Materials:
Stainless steel (AISI 304)
Stainless steel (AISI 316)
Stainless steel (AISI 904L)



DW/DWK
CONTRACTOR PUMPS

Flow, Q: max. 432 m³/h
Head, H: max. 102 m
Liquid temp.: 0 °C to +40 °C
Installation depth: max. 25 m



**NB/NBG/NK
MAXA/MAXANA**
SINGLE-STAGE STANDARD PUMPS

Flow, Q: max. 1000 m³/h
Head, H: max. 160 m
Liquid temp.: -25 °C to +140 °C
Operat. pressure: max. 16 bar (NB/NBG/NK)
max. 10 bar (Maxa/Maxana)
Materials:
(NB/NBG/NK): Cast iron and Stainless steel
(MAXA/MAXANA): Stainless steel
(EN 1.4404.316L)



CR/CRN/CRT
MULTISTAGE CENTRIFUGAL PUMPS

Flow, Q: max. 180 m³/h
Head, H: max. 470 m
Liquid temp.: -40 °C to +180 °C
Operat. pressure: max. 50 bar
Materials:
Cast iron GG20 or GGG50
Stainless steel (EN 14301.304)



LS
HORIZONTAL SPLIT CASE PUMPS

Flow, Q: max. 2500 m³/h
Head, H: max. 148 m
Liquid temp.: 0 °C to +100 °C
Operat. pressure: 10-16 bar
Materials:
Casing: Ductile iron (PN16) or cast iron (PN10)
Sleeve/wear ring: Bronze or stainless steel
Shaft: Stainless steel (AISI 420)
Impeller: Bronze, aluminium bronze or stainless steel



HYDRO MPC
HYDRO BOOSTER SETS

Flow, Q: max. 1080 m³/h
Head, H: max. 55 m
Liquid temp.: 0 °C to +70 °C
Operat. pressure: max. 16 bar
Materials:
CR(E): Stainless steel
CR(E): Cast iron and stainless steel
Manifold: Stainless steel



MTR
MULTISTAGE CENTRIFUGAL
IMMERSIBLE PUMPS

Flow, Q: max. 85 m³/h
Head, H: max. 238 m
Liquid temp.: -20 °C to +90 °C
Operat. pressure: max. 25 bar
Materials:
Cast iron
Stainless steel (AISI 304)



**SE1/SEV
SL1/SLV**
DRAINAGE, EFFLUENT,
AND SEWAGE PUMPS

Flow, Q: max. 88 m³/h
Head, H: max. 44 m
Liquid temp.: 0 °C to +40 °C
Discharge diameter: Rp 2 to DN 65
Materials:
Cast iron



**BMS hs/BMST/
BMSX**
HIGH-PRESSURE
BOOSTER SYSTEMS

Flow, Q: max. 120 m³/h
Head, H: max. 820 m
Liquid temp.: 0 °C to +40 °C
Operat. pressure: max. 82 bar



AMD/AMG
INTERMEDIATE-SPEED MIXERS WITH
PLANETARY GEAR DRIVE

Flow, Q (AMD): max. 1435 m³/h
Flow, Q (AMG): max. 6985 m³/h
Propeller Speed (rpm) (AMD): 675-710 rpm
Propeller Speed (rpm) (AMG): 325-354 rpm
Liquid temp. (AMD/AMG): 5 °C to +40 °C
Materials (AMD): Stainless steel
Materials (AMG): Cast iron



**MONITORING
AND CONTROLS**
CUE, MPC, MP204,
DEDICATED CONTROLS

Grundfos offers a complete range of pumps controls, frequency converters, motor protection units, sensors, and monitoring solutions.
In combination with Grundfos pumps, the Grundfos monitoring and control products offer substantial savings in installation, maintenance, service cost, energy consumption, as well as in the day-to-day operation.



DMX/DMH
MOTOR-DRIVEN AND
PISTON DIAPHRAGM DOSING PUMPS

Flow, Q (DMX): 0.4 to 2x4,000 l/h
Flow, Q (DMH): 0.15 to 2x1,500 l/h
Setting range: up to 1:10
Max. operat. pres. (DMX): 10-3 bar
Max. operat. pres. (DMH): 200-4
Materials:
Robust aluminium housing
(DMX226, DMX227 + DMH)
Robust cast iron housing option (DMH)

ASTM CPVC PIPING SYSTEMS

Main Applications:

Chemical processing, plating, hot cold potable water systems, water treatment, wastewater & hot corrosive fluid transfer.

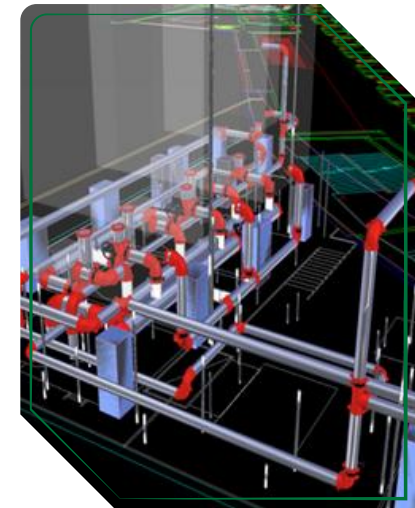
- **Product Range: 1/4"–24" Schedule 80**
- **Available Stocks in Saudi (1/4" – 4")**
- **Pressure Rating: Varies by size**
- **Temperature Range: 32°F–200°F (0°C–93°C)**
- **Joining Technology: Solvent cementing, NPT threaded connections, mechanical connections.**



Stock Available

A Faster Method to Join Pipe **Grooved Mechanical Pipe Joining** Couplings, Fittings and Valves

- Cold, Clean, Safe and Flame-free Installation compared to welding or fusing pipe joints.
- Minimized onsite waste & rework.
- Increased onsite safety due to prefabricated components allowing easier assembly.



Positive Displacement / Multistage Centrifugal Air Blowers



SIDE CHANNEL BLOWERS

- Main application: Aeration of Waste Water Tanks
- Made in Italy since 1975.
- Maintenance Free.
- Low Noise Level.
- Compact Size.
- Warranty 3 Years.
- Large References.



MECHANICAL SERVICES

Workshop / On-Site

- ❑ **Maintenance & Overhauling of all types of Small to Medium size Rotating Equipment: Compressors, Pumps, Blowers and Vacuum Pumps...etc.**
- ❑ **Tank Equipment, Safety & Relief Valves, Flame Arrestors Maintenance, Testing & Re-certification.**
- ❑ **Troubleshooting & Fault-finding Support.**
- ❑ **Installation, Commissioning & Startup Services of Equipment.**
- ❑ **Annual Maintenance Contracts**



COMMODITY CHEMICALS FOR WATER TREATMENT

- Activated Carbon
- EDTA 2/4 Na
- Citric Acid
- Sodium Sulphate
- Aluminum Sulphate
- Liquid Ammonia 25%
- Ferric Chloride 40%
- SMBS/SBS/ SS
- Sodium Fluoride
- Acid Corrosion Inhibitors
- Calcium Hypochlorite-70%
- Sodium Sulphite
- Sodium Chlorite 25%, 31%
- Oxalic Acid
- Ascorbic Acid
- DBNPA 20%
- Sodium Nitrite/Nitrate
- Di-Sodium Hydrogen Phosphate
- Calcium Chloride 77% and 94%
- Soda Ash Dense/Light
- Hydrogen Peroxide 35%, 50%
- Sodium Metasilicate
- Hydrazine Hydrate 35%, 55%
- Sodium Bromide
- Tri Sodium Phosphate(TSP)





Threadlocking Adhesives



Thread Sealants



Retaining Compounds



Gasket Sealants



Instant Bonding



Structural Bonding



Metal Rebuild Compounds



Protective Coatings & Compounds



Anti-Sieze



Lubrication



Cleaning



Corrosion Inhibitors

- **Anti-seize Pastes.**
- **High Temp Pastes.**
- **Specialty Greases.**
- **Dry Lubricants.**
- **Silicone Compounds.**
- **Anti friction Coating.**





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