

Compressors and aeration

Disc diffuser system type ABS

Features and benefits

- Reliable and long-lasting
- Low pressure drop and high aeration efficiency
- Possibility of future increase in aeration capacity
- Quick and easy installation with flexible layout design
- High temperature endurance

Key characteristics

Air flow 0.5 to 15 m³/h per diffuser
Max water depth 0.5 to 15 m

Applications

- Aeration of municipal wastewater
- Aeration of industrial wastewater



HSR turbocompressor

Features and benefits

- 100% oil-free, environmentally friendly and safe
- Premium efficiency, low life cycle costs
- Wear-free, low maintenance costs
- Real-time monitoring secures the trouble-free operation
- Vibration-free, low machine noise
- Advanced liquid cooling system enables energy recovery

Key characteristics

Flow up to 56 m³/min / 1'980 CFM
Pressure rise 2 to 9 bar (g) / 30 to 130 psig
Motor power 115 to 325 kW / 154 to 436 hp

Applications

- Suitable for providing oil-free compressed air for all industries



HST™ turbocompressor

Features and benefits

- High efficiency guaranteeing optimal life-cycle costs
- Low noise: no need for additional soundproofing
- Wear-free, requiring minimal maintenance
- Simple design with integrated components
- Accurate flow measurement
- Vibration-free, ensuring less stress for pipe work
- Fully certified
- Operates alongside all types of conventional blowers

Key characteristics

Flow up to 16'000 Nm³/h / 10'200 SCFM
Pressure rise up to 130 kPa / 18.9 psi
Motor power 75 to 400 kW / 100 to 500 hp

Applications

- Aeration for treatment of municipal and industrial wastewater
- Industrial applications



Submersible aerator mixer OKI

Features and benefits

- High aeration efficiency
- Can run as an aerator and/or mixer according to process requirements
- Designed for non-clogging operation
- Suitable for both, continuous and intermittent process operation
- Suitable for all usual tank depths, especially deep tanks

Key characteristics

Oxygen transfer	up to 410 kg O ₂ / h @ 12 m
Air flow	up to 3'600 m ³ /h / 2'100 CFM
Water depth	4 to 12 m / 13 to 39 ft.
Motor power	5 to 37 kW / 7 to 50 hp

Applications

- Activated sludge basins and sequence batch reactors (SBR), membrane bio reactors (MBR), and moving bed bio reactors (MBBR)
- Sludge storage and stabilization
- Flotation of oil and grease
- Additional aeration



Aerator type ABS Venturi Jet

Features and benefits

- Easily installed, stand-alone or portable with optional fixed installation
- Reduces odors and septic conditions
- Cost-effective installation
- Self-aspirating; no need for compressed air
- Operates irrespective of water level variation
- Very low noise level, no aerosol formation, and no sedimentation on the bottom, thus minimizing environmental effects

Key characteristics

Air flow	50 to 550 m ³ /h / 60 to 650 CFM
Max water depth	2 to 6 m / 6.6 to 19.7 ft.
Motor power	1.3 to 18.5 kW / 1.7 to 24.8 hp

Applications

- Activated sludge basins and Sequencing Batch Reactors (SBR), providing aeration and mixing in one unit
- Mixing and equalization basins
- Sludge storage and stabilization
- Flotation of oil and grease
- Additional aeration



Submersible aerator type ABS XTA and XTAK

Features and benefits

- Easy to install and freestanding on the bottom of the basin; no need to empty the basin for installation
- Wear-resistant and long lifetime
- Very low noise level, no aerosol formation, and no sedimentation on the bottom, thereby minimizing environmental effects
- Self-cleaning, high aeration efficiency, excellent solids suspension capability

Key characteristics

Oxygen transfer	up to 70 kg O ₂ / h @ 6 m
Max water depth	2 to 6 m / 6.6 to 19.7 ft.
Motor power	3 to 75 kW / 4 to 100 hp

Applications

- Activated sludge basins and Sequencing Batch Reactors (SBR)
- Sludge storage and stabilization
- Flotation of oil and grease, additional aeration
- Neutralization of alkaline wastewater with CO₂ or flue gas

