



## CASE STUDY

# Indah Water Konsortium Enhances Wastewater Aeration Efficiency with Gardner Denver BM75 Maglev Blower

Built to Keep You Running Efficiently and Reliably

### Customer Overview

Indah Water Konsortium Sdn. Bhd (IWK) is Malaysia's national sewerage services provider, responsible for the operation and maintenance of municipal wastewater treatment plants across the country.

As a critical public utility, IWK plays a vital role in protecting public health and supporting environmental sustainability through reliable and energy-efficient wastewater treatment operations.

Operating facilities that run for extended daily hours, IWK continually seeks technologies that can improve efficiency, reliability, and long-term operational performance across its treatment infrastructure.

### Application: Wastewater Aeration

At the heart of municipal wastewater treatment is the aeration process, where a consistent and controllable supply of air is required to support biological treatment within activated sludge systems.

Aeration is one of the most energy-intensive processes in wastewater treatment, making blower performance and efficiency a key operational priority for IWK.

### KEY HIGHLIGHTS

#### Challenges

- High energy consumption from conventional blower technologies
- Ongoing maintenance due to mechanical wear components
- Pressure to reduce operating costs while maintaining long daily runtimes and system reliability

#### Solution

- IWK selected the Gardner Denver BM75 Maglev Blower to supply process air for wastewater aeration applications.

#### Results and Benefits

- Reduced maintenance requirements due to non-contact magnetic bearings
- Improved reliability for continuous aeration operation
- Better energy management contributing to lower long-term operating costs from lower energy bills

## The Challenge

IWK was looking to **improve the overall efficiency** and **reliability** of its aeration system while **managing rising operational and maintenance costs**. The challenges faced were typical of many municipal wastewater treatment facilities:

- High energy consumption associated with conventional blower technologies
- Ongoing maintenance demands caused by mechanical wear components
- The need for stable, controllable airflow to maintain consistent treatment performance

With long operating runtimes and increasing cost pressures, IWK required a solution that could deliver both immediate operational benefits and long-term lifecycle value.

## The Solution

To address these challenges, IWK selected the **Gardner Denver BM75 Maglev Blower** to supply process air for wastewater aeration applications.

The BM75 Maglev Blower is designed to deliver efficient and stable airflow under varying load conditions. Its oil-free, contact-free magnetic bearing technology eliminates mechanical wear components, significantly reducing maintenance requirements while supporting long-term reliability.

The solution was implemented with support from Gardner Denver's technical expertise and local authorized distribution network. Installation was carried out by the customer's contractor, and thanks to the blower's plug-and-play design, commissioning proceeded smoothly once operating parameters were set correctly.



## Results and Benefits

Since commissioning, the BM75 Maglev Blower has helped IWK achieve measurable operational improvements:

- Reduced maintenance requirements due to oil-free, contact-free magnetic bearings
- Improved operational reliability for continuous aeration duty
- Better energy management, supporting lower long-term operating costs
- Quieter operation, contributing to improved site conditions

A customer technician noted that the BM75 Maglev Blower operated more quietly compared to other brands experienced during previous commissioning activities, reinforcing the perceived quality and performance of the solution.

## Looking Ahead

Encouraged by the performance and operational benefits of the BM75 Maglev Blower, IWK has expressed interest in future expansion and the potential adoption of additional units as part of its ongoing infrastructure development and modernization plans.

## Conclusion

By adopting the Gardner Denver BM75 Maglev Blower for wastewater aeration, Indah Water Konsortium has taken a significant step toward improving energy efficiency, reducing maintenance demands, and enhancing the long-term reliability of its treatment operations—supporting its mission to deliver sustainable and dependable sewerage services nationwide.



## Contact Your Local Gardner Denver Expert

We're ready when you are! When you need answers, we deliver—quotes, lead times, and real technical expertise.