

Aeration Control System

Gas Data Vacomass

The **Vacomass** concept is a modular system using proven technology to control the dissolved oxygen (DO) concentration and reduce the energy consumption used in the processing and treatment of sewage. The **Vacomass** philosophy has been developed by Binder Engineering over many years and has been installed within numerous key municipal plants across the globe.

A combination of precisely controllable **Vacomass** valves, accurate air flow meters and complementary electronic control modules all work together ensure that the DO concentration remains very tightly controlled and that the energy usage is minimised.



The **Vacomass** valves have all been designed to reduce losses and allow for precise control across their full stroke.

The newly introduced **Vacomass Jet Control Valve** has been aerodynamically optimised with a linear characteristic over its stroke for extremely accurate control with minimal pressure drop. A low pressure drop contributes to the energy savings available.

The **Vacomass** flow meters use thermal dispersion for the precise monitoring of the air flow and can be used with a range of specialist flow conditioners to allow the meters to be installed in locations that would otherwise be unsuitable for such accurate measurements.

The closed loop control between the valves, blowers, DO probes and air-flow meters enables the system to supply the air throughout the system according to the measured need in the various basins, aeration zones and cascades within the plant. By matching air supply with air demand it allows energy wastage to be reduced.

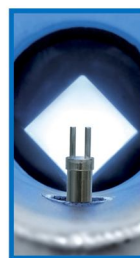
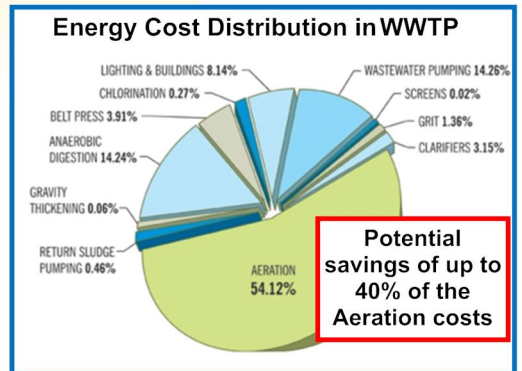
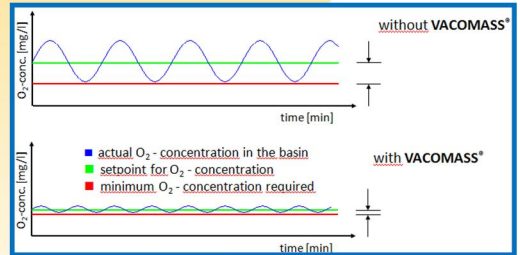
Gas Data Ltd have been working with Binder for many years and are now pleased to offer their **Vacomass** solution. In conjunction with our UK based installation partners, Suprafil, we are able to offer a complete design and installation solution to increase control and reduce energy costs across your plants.

The **Vacomass** system reference sites include: Berlin-Schönerlinde WWTP, Amsterdam West WWTP, Shaoxing WWTP (China) and GENT WWTP.

With a **Vacomass** system the biological process is tightly controlled and the energy consumption can be significantly reduced.

GAS DATA

Gas Analysis and Control



Gas Data Limited, Pegasus House, Seven Stars Estate
Wheler Road, Whitley, Coventry CV3 4LB U.K.

Telephone: +44 (0) 2476 303311
Fax: +44 (0) 2476 307711

E-mail: enquiries@gasdata.co.uk
Website: www.gasdata.co.uk



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In keeping with a policy of continuous development, Gas Data Ltd.



ברלין טכנולוגיות בע"מ
8122214, יבנה, 13 שדרות גן רוה
http://www.berlintech.co.il/
mail@berlintech.co.il
טלפון: 073-7597171
פקס: 08-6638120

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