

BM-EVO respirometer for Aigües de Barcelona (Agbar Group)



[Aigües de Barcelona](#), leading company of the [AGBAR Group](#), has ordered a BM-EVO Multifunction Respirometry System from SURCIS to be installed in the [WWTP of Gavà-Valadecans](#).



BM-EVO Respirometry System

This sale is achieved thanks to direct conversations and the good relationship with part of the Group's staff who already had experiences with Surcis' BM Respirometry.

Aigües de Barcelona is a mixed public-private company responsible for managing services related to the integral water cycle, such as the supply of drinking water and sewerage in the city of [Barcelona](#) and in the 36 municipalities of its [metropolitan area](#), serving a population of around three million inhabitants.



Ciutat de l'Aigua (Water City) – Aigües de Barcelona

The BM-EVO is installed in the laboratory of the Gavà-Viladecans WWTP, located in the Metropolitan Area of Barcelona (AMB), which is one of the most representative wastewater treatment plants in Catalonia.

Currently, the Gavà treatment plant has a treatment capacity of up to 64 million liters of wastewater per day, equivalent to the water use of 300,000 inhabitants and the associated economic activities (inhabitants-equivalent)

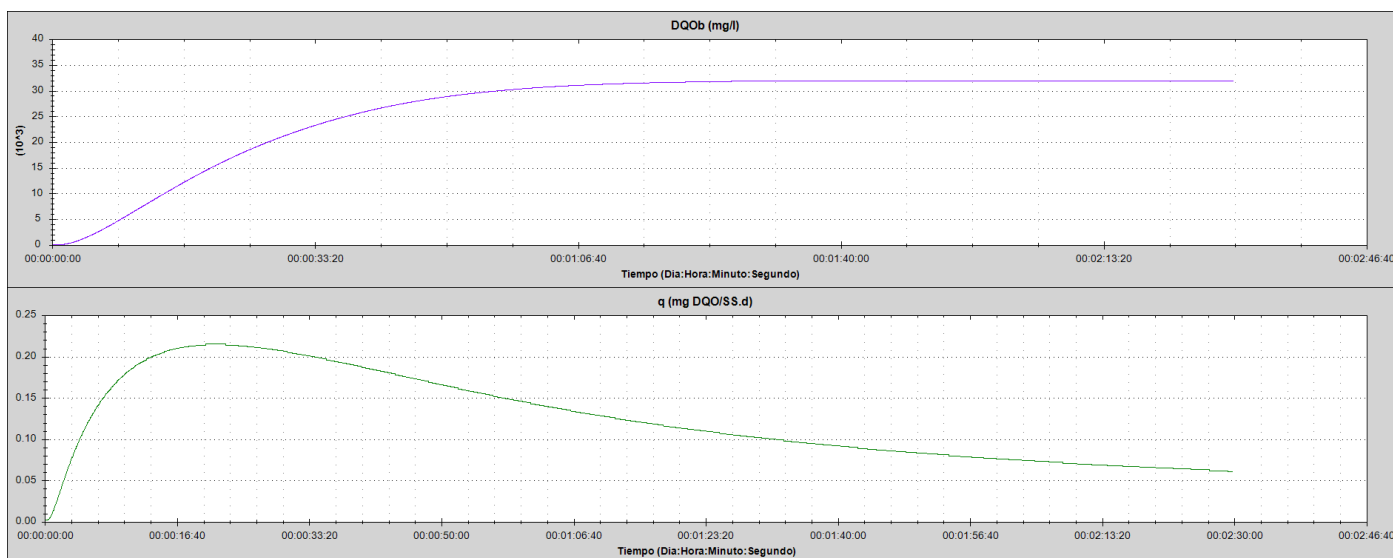


WWTP Gavà - Viladecans

The BM-EVO is included within the family of BM Respirometry Systems of Surcis and is, together with the BM-Advance, the equipment with the greatest acceptance. Its main attraction is that it is a compact respirometer, easy to operate and with an affordable Price. It uses the same software of the BM family, in which most of the Respirometry applications can be developed.

This system is equipped with an analysis system and software that allows it to program respirometry tests at different oxygenation and temperature conditions, and carry out applications on biomass activity. In this way, the influence that the tributary exerts on its biological treatment can also be analyzed specifically through parameters such as respiration rate (OUR, SOUR, Rs), Consumed Oxygen (OC), biodegradable COD (COD), Substrate utilization rate (U, q), among others, and that have their effective application in the elimination of organic matter and nitrification-denitrification.

Among the most important applications that can be carried out we can mention COD fractionation, Symptoms of activity decay, Toxicity to the biological activity of the sludge, Energy optimization, Current aeration capacity, Assessment of the state of the aeration system, Nitrification Rate (AUR), denitrification rate (NUR), among many others.



Simultaneous respirograms of bCOD and q

This operation confirms that Surcis' BM Respirometry continues to consolidate itself as a fundamental tool in leading companies and groups in wastewater treatment, such as DAM, ACCIONA-AGUA, SUEZ, FACSA, CADAGUA, and now AIGÜES DE BARCELONA.