



# IGUALADA

## Industrial WWTP

$Q_{\text{inlet}} 5,500 \text{ m}^3/\text{d}$

*The traditional tanners' guild of Igualada was first documented in 1693. It consists of around 30 companies and employs around 800 people. For wastewater treatment the Curtidores de Igualada run their own sewage treatment plant, which is operated by the international waste disposal company Tradebe.*

NUMBER OF TANKS	1
TOTAL VOLUME	11,880 m <sup>3</sup>
WATER DEPTH	6 m
SOTR (Standard Oxygen Transfer Rate)	max. 544.1 kg O <sub>2</sub> /h
TOTAL AIRFLOW	max. 4,730 Nm <sup>3</sup> /h
TOTAL AEROSTRIP® DIFFUSERS	239

## REMARKABLY HIGH NITROGEN REDUCTION

By the mid-2010s, the Igualadina de Depuració i Recupera-  
ció (IDR) had reached its limits: The capacity of the plant's  
sequencing batch reactors (SBR) had long since been  
reached; the operation of the homogenization tank used to  
mix industrial wastewater with municipal wastewater led to  
strong odors at times.

To solve these problems and be prepared for the future, the  
sewage treatment plant underwent a comprehensive renova-  
tion: The homogenization tank was converted into a bio-  
logical reactor for carbon elimination. Since then, nitrogen  
elimination has taken place in the downstream SB reactors.

This resulted in a substantial increase of nitrogen removal,  
which rose from 40 % to 95 % - both in summer and winter.

For future use of the former homogenization tank, a high  
value was set on a heavy-duty and energy-efficient aeration  
system. Therefore, the operator decided in favour of AERO-  
STRIP® fine bubble diffusers.



# AEROSTRIP®

fine bubble diffusers by AQUACONSULT