

**TECHNICAL-ECONOMIC  
PROPOSAL  
DAF SYSTEM**



**SIGMA** DAF  
Clarifiers





## Our facilities

All equipment supplied by **SIGMADAF** is designed and manufactured entirely in our facilities. Our production facilities occupy a main unit measuring 2.800 m<sup>2</sup>, which is divided into two parallel spaces each equipped with crane bridges and with special large independent accesses to facilitate logistics operations.

The main unit is for manufacturing stainless steel equipment and general final assembly prior to shipment. We also have a fully equipped auxiliary unit measuring 1,000 m<sup>2</sup> for producing carbon steel equipment. All this is complemented by a service of auxiliary workshops, selected and adhered to our quality control processes, located in our facilities. Thanks to our full control of all design and production processes, we can ensure the maximum durability and efficiency of our DAF systems for the management of wastewater generated in industrial and municipal processes.

Our workers have been accredited by the International Business Control Agency in order to ensure the highest manufacturing quality of our products





## SIGMADAF TECHNOLOGY

### DAF units for water and wastewater treatment

We supply dissolved air flotation (DAF) units for industrial effluent treatment. Our DAF systems are entirely designed and manufactured in our facilities, thanks to which we can guarantee the highest standards of quality and performance of each machine we deliver.



Our DAF equipment stands out for its ease of use and durability. We have several models that can treat wastewater volumes ranging from 5 m<sup>3</sup>/hour to 1000 m<sup>3</sup>/hour. This wide range of equipment allows us to offer an efficient solution for the different objectives and requirements of our customers.

Dissolved air flotation is the most efficient technology for the removal of suspended solids (TSS), oils, grease and biochemical oxygen demand (BOD) from wastewater and other industrial process streams.

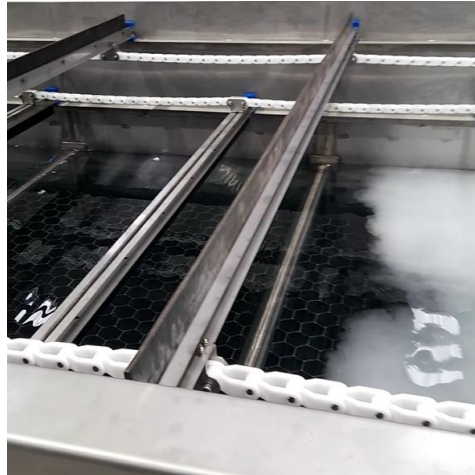




### DAF FPAC flotation unit

The DAF FPAC equipment is ideal for working with small and medium flows, containing high pollutant loads. They are also the most suitable model for sludge thickening. They have a large free surface to accumulate the floated sludge.

**The DAF FPAC flotation equipment is a large surface flotation clarification and cross-flow separation system.**



The system has been designed to treat wastewater flows with a very high load of suspended solids and other contaminants, which require a large flotation surface to ensure good flotation and separation of solids (up to 40kg of dry matter per m<sup>2</sup> can be treated).

The pressurized and dissolved air flotation systems treat contaminated water that is introduced at one end of the machine and expels the same clean water at the other end.



**SIGMADAF** technology is used to separate oils, greases, suspended solids and flocculated matter, which do not have sufficient flotation capacity or when oil-solids emulsions (with high density) require air flotation to improve the separation process.



# QUALITY CERTIFICATION

Internazionale

Certificazione

Istituto

## CERTIFICADO N° 45/21

Accreditación según UNI CEI EN ISO/IEC 17021-2:2018

Se certifica que el

**Sistema de Gestión  
Seguridad y Salud**  
Emitado a la Sociedad

**SIGMADAF CLARIFIERS S.L**

es conforme a la normativa

**UNE EN ISO 45001**

Para el siguiente producto, proceso o servicio

*(Aplicado de la certificación C.N. EA 23)*

**DISEÑO Y FABRICACIÓN DE EQUIPOS DE TRATAMIENTOS DE AGUA.  
B-55333462**

El presente Certificado está sujeto al respecto de las condiciones establecidas en el reglamento para la certificación del sistema, "REG-SG-2019" informado en el contrato para la certificación n° FRL-045/2021, S-S.

IL PRESIDENTE

Fecha:  
expedición  
12/02/21  
valididad  
12/02/24



La validez del presente certificado está sujeta al cumplimiento del seguimiento anual establecido, conforme a la normativa

UNI CEI EN ISO/IEC 17021-2:2018  
Para información puntual o en caso de algún posible cambio en el estado actual del certificado, se ruega contactar en la dirección  
email: [inform@instituto-certificacion.com](mailto:inform@instituto-certificacion.com)

Instituto Certificación Internacional – I.C.I.  
Via Pretoriana, 103 – 00265 – Roma  
– P.iva: 0965723149

Internazionale

Certificazione

Istituto

## CERTIFICATION N° 939/15

Accreditation according to UNI CEI EN ISO/IEC 17021-2:2018

It is certified that the

**ENVIRONMENTAL MANAGEMENT SYSTEM**  
Issued to the company

**SIGMADAF CLARIFIERS S.L**

**B 55333462**

Is in accordance with the regulation

**UNE EN ISO 14001:2015**

For the following Product, Process or Service

*(Certification scope Code EA 19)*

**Design and manufacture of water treatment equipment.**

This Certificate is subject to compliance with the conditions established in the regulations for the certification of the system, "REG-SGAM-2019" reported in the contract for certification n° 939/19 SGAM.

IL PRESIDENTE

Dates:  
expedition  
12/09/22  
expiration  
13/09/25



The validity of this certificate is subject to the established annual monitoring, in accordance with the regulation  
UNI CEI EN ISO/IEC 17021-2:2018  
For specific information about any possible issue in the current state of the certificate, please contact the email address  
[inform@instituto-certificacion.com](mailto:inform@instituto-certificacion.com)

International Certification Institute – I.C.I.  
Via Pretoriana, 103 – 00265 – Rome  
– P.iva: 0965723149

Applus<sup>+</sup>



# CERTIFICATE

No. **EC-9602/19**

**LGA Technological Center, S.A. (Applus+)**  
certifies that the Quality Management System of the organization:

**SIGMADAF CLARIFIERS, S.L.**

C/ C, nº 19 – Pol. Ind. Pont Xetmar  
17844, Cornellà de Terri (Girona)

For the following activities of:

Design and construction of water treatment systems.



**is in accordance with the requirements of the standard UNE-EN ISO 9001:2015**

INITIAL CERTIFICATION DATE: 08/02/2019  
EFFECTIVE FROM: 08/02/2022  
THIS CERTIFICATE IS VALID UNTIL: 07/02/2025

Managing Director  
Applus+ Certification, B.U.

Xavier Ruiz Peña

Technical Director  
Applus+ Certification, B.U.

Cristina Bachiller Martínez

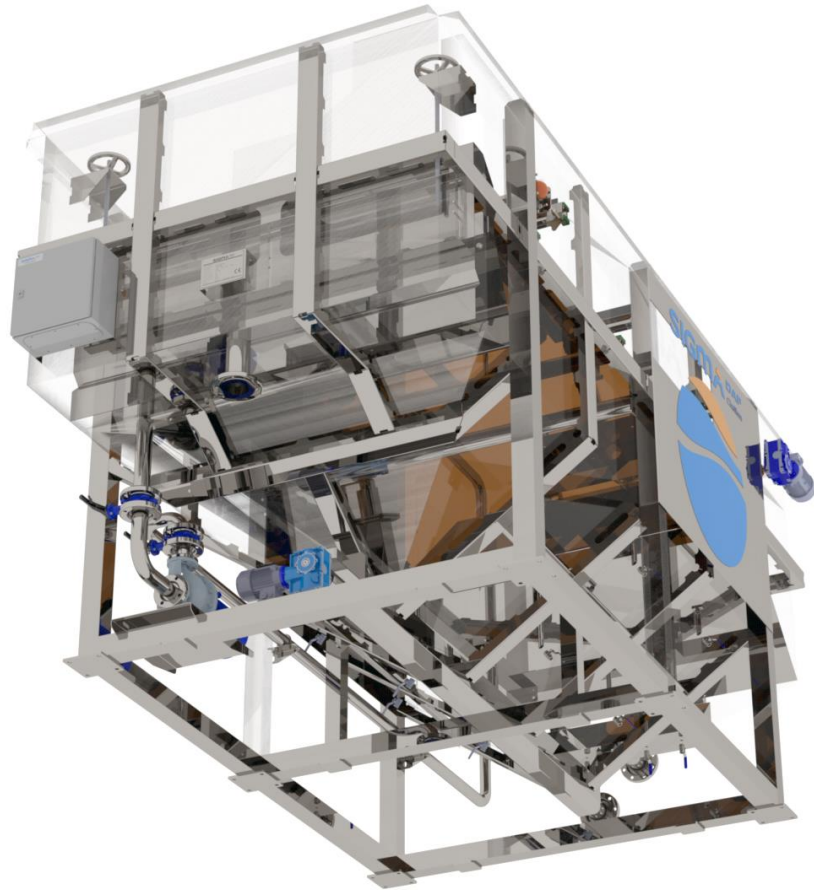
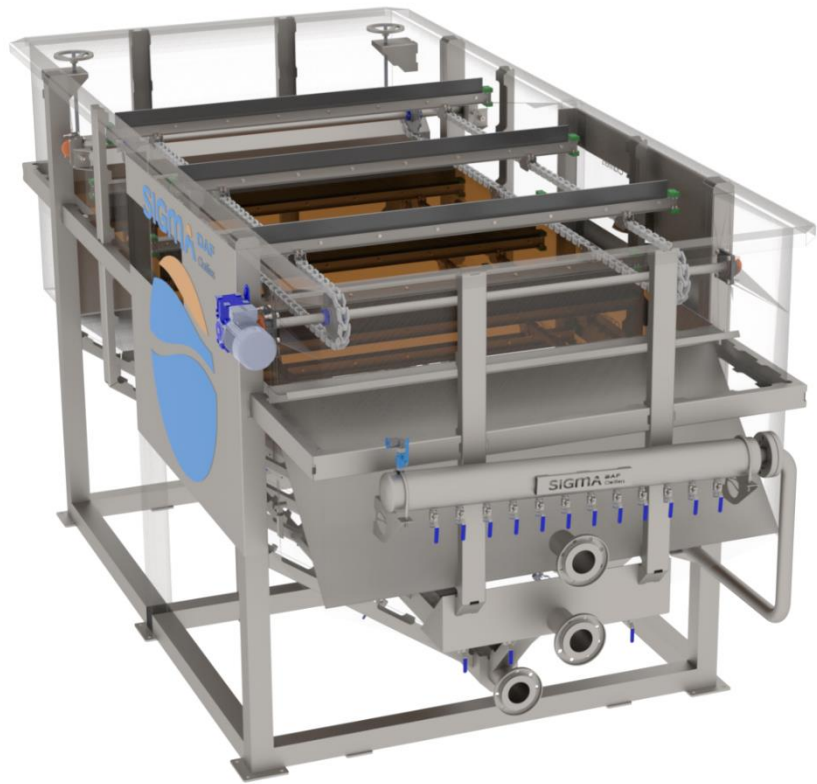
This certificate will be regarded as valid provided that all the contract conditions for which it is part of were fulfilled  
LGA Technological Center, S.A. (Applus+) Campus U.A.B., Ronda de la Font del Germen s/n, 08183 Bellaterra, Barcelona



## LIST OF DOCUMENTS

LIST OF DELIVERABLES TECHNICAL DOCUMENTATION	A - APPLIES	N - NOT APPLIES
<b>P&amp;ID</b>	A	
<b>3D PLANS</b>	A	
GA DRAWINGS		N
<b>DATA SHEET</b>	A	
WIRING DIAGRAM		N
<b>SPARE PART LIST</b>	A	
<b>CONTROL NARRATIVE</b>	A	
<b>ELECTRICAL CONSUMPTION</b>	A	
COMMISSIONING PROCEDURE		N
LIST OF DELIVERABLES PLANNING DOCUMENTATION		
<b>TIMING/PROGRAMA</b>	A	
<b>PRODUCTION REPORT</b>	A	
<b>COMMUNICATION MATRIX</b>	A	
<b>PRE-QUALIFYING DOSSIER</b>	A	
<b>ISO CERTIFICATES</b>	A	
LIST OF DELIVERABLES QUALITY DOCUMENTATION		
<b>ITP DOCUMENT</b>	A	
MATERIALS CONTROL REGISTRATION CERTIFICATES		N
<b>HERMETICITY CERTIFICATE I FAT TEST</b>	A	
CE SIGMADAF CERTIFICATE		N
<b>DOC TEC GENERAL OF INSTALLED SUB-EQUIPMENT</b>	A	
MSDS LUBRICANT		N
<b>O&amp;M MANUAL</b>	A	
<b>LOADING AND UNLOADING PROCEDURE</b>	A	
<b>GARANTEE</b>	A	
LIST OF DELIVERABLES TRANSPORT DOCUMENTATION		
SHIPPING DOCUMENTATION (CUSTOMS INV,BL,CMR)		N
SHIPPING MARKS		N
CERTIFICATE OF ORIGIN		N
<b>PACKING LIST</b>	A	

\*DOCUMENTATION IN ENGLISH OR SPANISH





## OPTIONALS

### COVERS



### Stop-cord System alarm

