

# SMBR

Sigma System

*Reliability  
Simplicity  
Flexibility*

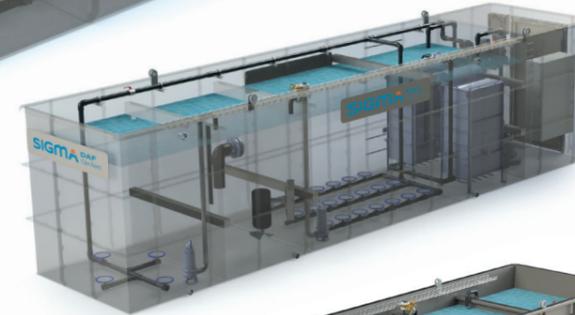
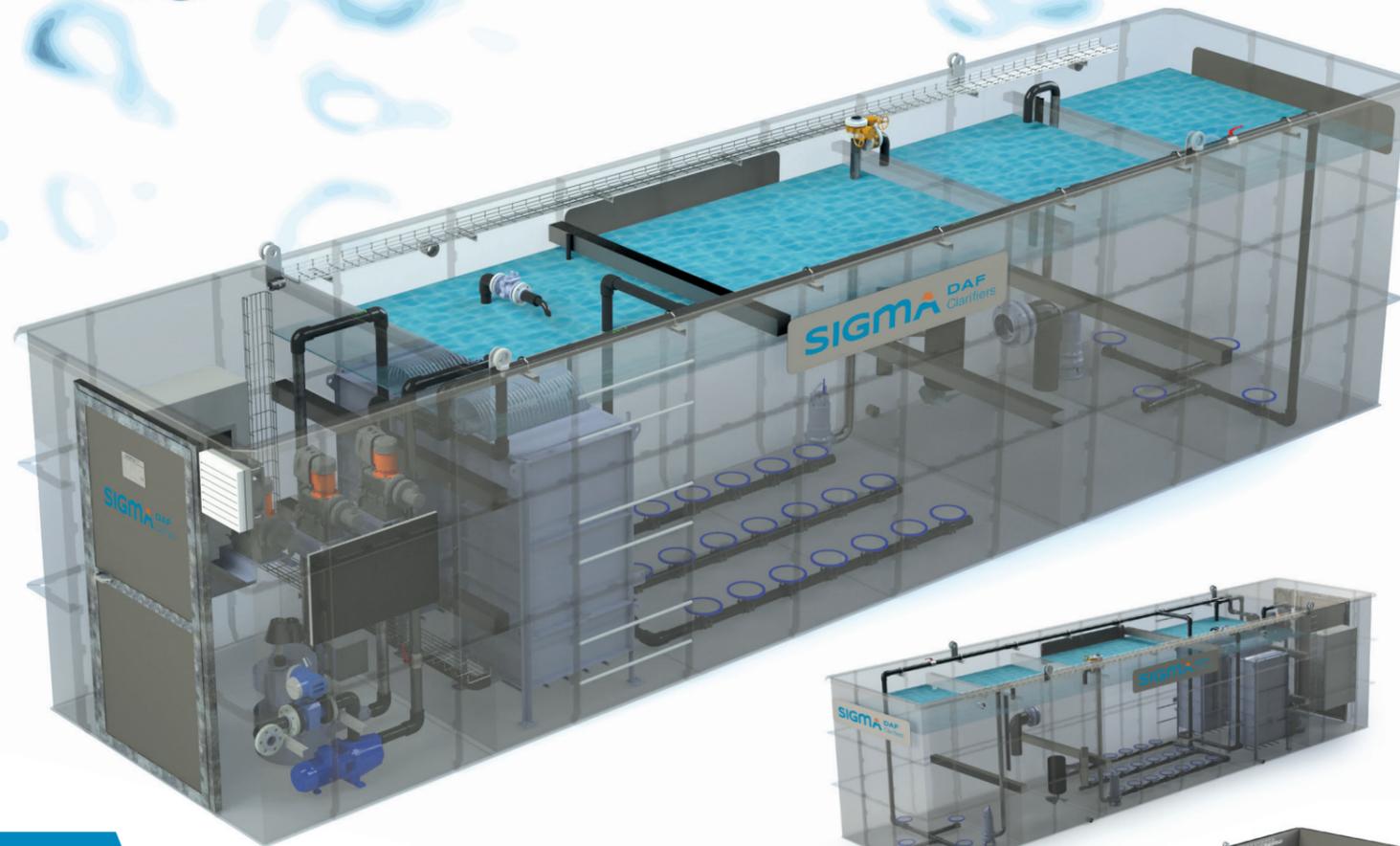


**SIGMA**  **DAF**  
Clarifiers

More than 40 years of engineering and equipment experience, providing innovative solutions to physico-chemical and biological processes, filtration and disinfection to meet the diverse needs of water and wastewater treatment, they have allowed us to develop a COMPACT SMBR system that translates this experience into reliability.

**With an innovative perception, robust design, flexible and modular to achieve an easy operation and most logistics optimization.**

We have established a quality management process that provides a framework to improve all our processes giving as a result of reliable equipment.



**The SMBR system includes**

- Homogenization chamber
- Anoxic chamber
- Aeration chamber and membranes
- Equipment completely installed
- Optional headworks and screening

**Common applications**

- Mining and forest camps, infrastructure execution remote
- Platforms and oil wells
- Military camps
- Condos, resorts
- Recreational centres, shopping centres
- Small industries

**Installation**

The system can be installed in ISO containers facilitating the logistics, assembly and, eventually, subsequent extensions.

- Quick Install
- Low space requirement
- Does not emit odours or attract insects
- High pollution loads
- Disinfection without UV or products chemical
- Effluent suitable for use agricultural or greywater
- Process completely automated
- Possibility of modular expansion



Design



Construction



Commissioning



Technical Assistance

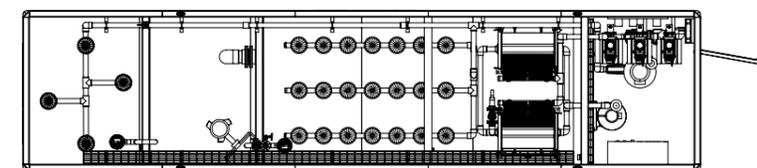
**Benefits**

- PLUG&PLAY solution
- Maximum reliability and durability
- Constant quality of the effluent of the system
- A compact plant that can integrate so much hollow fibre immersed membranes like flat.
- Simple treatment
- Resistance to oxidizing agents
- Easy to operate

Process management is simple and cost effective. There is no sedimentation in the tank biological.

The operator should only set the operation of the permeate pump and recirculation and working pressures in the control panel.

The working parameters are managed with a PLC that can carry out remote connections via MODEM.



Consult our special equipment for large capacities



Model	Hab/equi	Capacity (m <sup>3</sup> /day)	Membrane (m <sup>2</sup> )	Number of modules	Power (kwh)	Dimensions (mts)
SMBR40-1	to 130	20	40	1	10	9 x 2.3 x 2.3
SMBR60-1	to 200	30	60	1	12	9 x 2.3 x 2.3
SMBR40-2	to 260	40	80	2	14	9 x 2.3 x 2.3
SMBR60-2	to 400	60	120	2	16	11 x 2.3 x 2.3
SMBR80-2 (*)	to 550	80	160	2	20	11 x 2.3 x 2.3
SMBR100-2 (*)	to 700	100	200	2	30	11 x 2.3 x 2.3

Design ratios: 20 lts/m<sup>2</sup>/h  
150 lts/inhabitant

(\*) Does not include equalization



**SIGMA**  **DAF**  
Clarifiers

**Sigmadaf Clarifiers, S.L.**  
Polígon Industrial Pont Xetmar  
Carrer C, nº 19  
17844 Cornellà de Terri (Girona)  
+34 972 223 481  
[sigmadafclarifiers.com](http://sigmadafclarifiers.com)



**SIGMA**  
GROUP