



MEMBRANE SEPARATION
SYSTEMS SOLUTIONS

35
YEARS

DRIVING EXCELLENCE
IN INDUSTRIAL PROCESSES

About Us



Founded in 1991, WGM Sistemas is a process engineering and equipment manufacturing company specialized in membrane separation systems.

We develop tailored solutions, aligned with the specific needs of each client. We combine technical expertise, cutting-edge technology, and personalized service to deliver high-performance results.

With extensive accumulated experience and the support of international partnerships, WGM Sistemas is prepared to offer solutions at different stages of production, including applications for water reuse.

35+

YEARS OF EXPERIENCE

400+

EQUIPMENT

7

COUNTRIES SERVED

Installed Base



Throughout its history, WGM Sistemas has designed, manufactured, and installed more than 400 pieces of equipment across the Americas. This installed base consolidates the company's experience and reinforces its position as a benchmark in the membrane separation sector.

BRAZIL

Equipment installed and in operation throughout the national territory, serving the main industries.

AMERICAS

Equipment supplied to countries such as Chile, Colombia, Ecuador, Mexico, Nicaragua, and the United States.

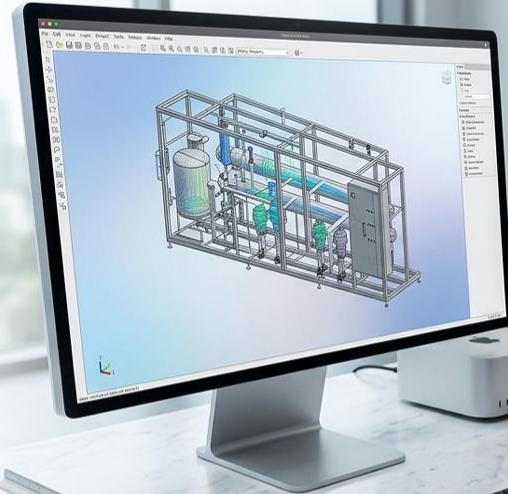


Engineering and Development

PROCESS DESIGN AND DEVELOPMENT

WGM supports its clients in the development, adaptation, and optimization of membrane processes, contributing to the creation of new products and the improvement of existing operations.

In established applications, preliminary tests are usually not necessary; in new projects, we conduct tests in pilot plants at the client's facilities, evaluating performance under real conditions.



Engineering and Development

PROJECT ENGINEERING

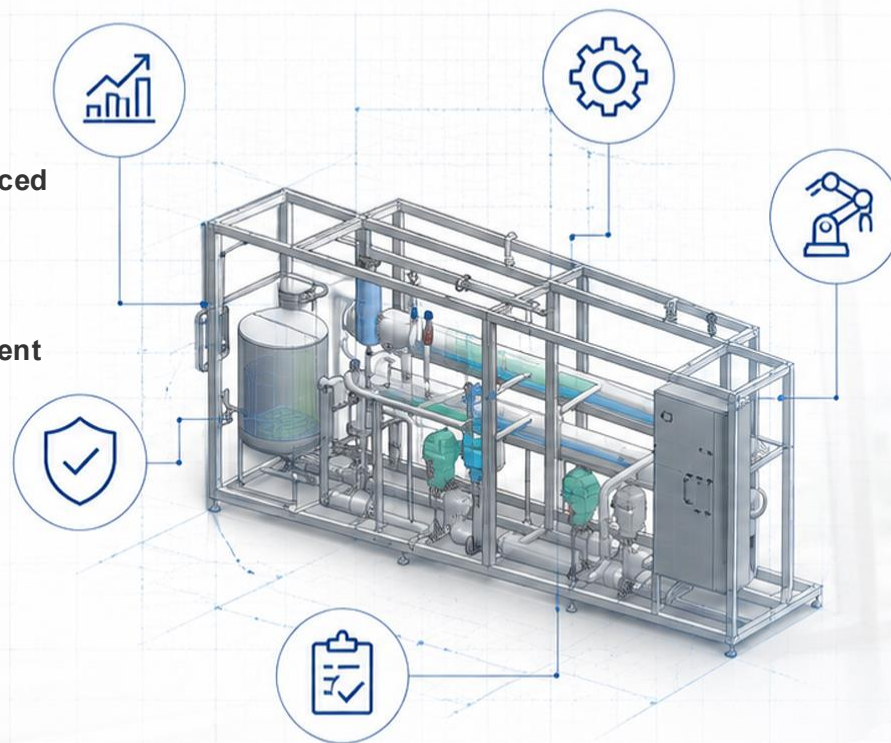
The sizing and detailing are carried out by a team of experienced engineers and designers.

We strictly meet the requirements of capacity, efficiency, automation, ergonomics, safety, and compliance with all current standards and regulations.

PILOT PLANTS

Our plants allow precise testing with equipment that is easy to transport and adapt to different industrial units:

- Microfiltration
- Nanofiltration
- Ultrafiltration
- Reverse osmosis



Manufacturing and Technical Assistance

MANUFACTURING AND ASSEMBLY

Systems manufactured in own facilities, following strict quality control standards, with a specialized assembly team.

SPARE PARTS

Technical structure prepared to respond quickly, with stock of membranes and the most worn parts.

STARTUP AND TRAINING

Each system includes field engineer support for equipment start-up and operator training.

TECHNICAL ASSISTANCE

Permanent team of engineers and technicians to provide assistance throughout the national territory.



DAIRY PRODUCTS

Processing of milk, whey,
and derivatives with high
efficiency.

Main Applications

- Concentration of milk and whey
- Brine Microfiltration
- WPC Production
- MPC Production
- Fractionation of Milk Proteins



COLLAGEN AND GELATIN

Concentration and clarification
of gelatin and hydrolyzed
collagen



FOOD AND BEVERAGES

Concentration, clarification, and treatment of products.

Main Applications

- Concentration of bovine plasma, egg white eggs and whole egg
- Juice Concentration
- Clarification of juices, syrups, and beverages
- Clarification and removal of bitterness or pesticides from juices.



BIOTECHNOLOGY

Purification and concentration of biological compounds and vaccines.

Main Applications

- Purification of vaccines, plant extracts, and chemical solutions
- Concentration of viruses and bacteria
- Removal of endotoxins from saline solution, vaccines, and solutions
- Removal of cells from fermented musts



WATER REUSE

Sustainability, water efficiency, and effluent treatment.

Main Applications

- Removal of oils and greases from oily effluents
- Recovery of alkaline and acidic cleaning solutions
- Recovery and concentration of pigments
- Recovery of metals and valuable products in wastewater
- Potabilization and Demineralization



Membranes

WGM Sistemas works with membranes from various manufacturers, carefully evaluating the technology of each to offer the most suitable and efficient solution for each process.

We maintain a continuous import program to ensure immediate availability and agility in the supply of spare parts.

MAIN SUPPLIERS

- Kovalus
- Mey Membranes
- Kaimi
- Atech
- Synder Filtration
- Toray
- Tami



WCLEAN Cleaning Line

WGM Sistemas offers the WCLEAN line, developed to provide efficient cleaning, high performance, and longer membrane lifespan.

EFFICIENT CLEANING

Specific formulation for membrane systems.

HIGH PERFORMANCE

Proven results in industrial operation.

LONGER SERVICE LIFE

Membrane preservation and cost reduction.

TECHNICAL SUPPORT

To ensure the effectiveness of the products and the best performance of the systems, WGM Sistemas offers technical assistance in the implementation of the WCLEAN line:

- Evaluation of production conditions
- Protocol definition: dosage, time, and temperature
- Local team training



Key Clients & Partners

CLIENTS



SUPPLIERS





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