



WASTE WATER TREATMENT

SOLUTIONS AND TECHNOLOGIES



WASTE WATER TREATMENT TECHNOLOGIES

Pragma Chimica was founded in 1996 and it is your ideal partner for the treatment, the re-use and the managing about waste water treatment.

The professionalism and the experience gained during the

years are put at the service of who must solve problems regarding environment and its safeguard.

We are specialized about **project, building** and **managing** of industrial water treatment plants.



Below are listed summarily the principal treating process that **Pragma Chimica** is able to propose to its customers:

- chemical-physics-biological treatment plants;
- membrane plants (SBR - MBR - MBBR);
- biofiltration;
- ultrafiltration;
- zero discharge solutions;
- solutions with resins/filters media.

INDUSTRY 4.0



Pragma Chimica offers to its customers an attentive technical assistance service and a remote monitoring service of the plants, with remote control system solutions.

Pragma Chimica has the knowledge to take care of every technical aspect of the water treatment process in detail.

Our continuous research and development allow for cutting-edge **plant solutions** and for every type of industry.

CHEMICAL PRODUCTS FOR WASTE WATER TREATMENT

Pragma Chimica offers the widest range of **waste water treatment products**:

POLYELECTROLITES

- anionic;
- cationic;
- coagulants;
- super absorbents;
- complexing.

BIOTECHNOLOGIES

- Enzyme-bacterial mixtures for the treatment of:
- sludge;
 - industrial waste;
 - civil waste;
 - aerobic and anaerobic treatments.



SPECIAL PRODUCTS

- defoamer;
- biological deodorizers;
- organic dechlorinate products;
- nutrients for biomass;
- antiscalant;
- bactericides.

THE SLUDGE CENTRIFUGE

Centrifugation or dewatering is a treatment to which pumpable waste sludge deriving from industrial processes is subjected.

The process consists in separating the liquid and the solid

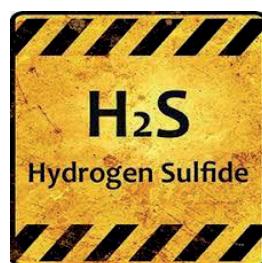
phase, by applying a centrifugal force, thus achieving a volumetric and quantitative reduction of the waste, considerably reducing the costs of disposal.



ODORS FROM HYDROGEN SULFURATE

Pragma Chimica in collaboration with **Yara** offers a preventive solution against hydrogen sulphide and the smell of pollution that follows. This solution includes a complete set of services:

- on-site diagnosis to identify the source of the hydrogen sulphide;
- preventive treatment;
- dose monitoring.



PRAGMA CHIMICA SOLUTIONS

Pragma Chimica R&D department is at your complete disposal for the development of products and new technologies suitable for the correct management of waste water treatment plants.

- Technologies for ecologically sustainable water treatment;
- Chemical analysis;
- Dewatering, centrifugation, transport and final disposal of sludge in authorized plants;
- Revamping of waste water treatment plants;
- Consultancy on the development and design of new plant solutions;
- Remote controls;
- Removal of odours caused by hydrogen sulfide.



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