



## Turnkey water treatment specialists

Water management and plant construction

**COMS SRL**  
via degli Artigiani 20  
33030 Talmassons  
(UD) ITALY  
VAT NO. 02665060303

**INFO**  
[www.comsitalia.it](http://www.comsitalia.it)  
[info@comsitalia.it](mailto:info@comsitalia.it)  
(+39) 0432 762036



## LAUNDRY, DRY-CLEANING AND DYEWORKS SECTOR

design | construction | service of  
water treatment plants





## Wastewater from the laundry, dry-cleaning and dyeworks sector.



The laundry sector is characterised by the most heterogeneous activities (self-service laundries, stone-washing, industrial laundries, dry-cleaners and dyeworks, etc.) and therefore can be differentiated according to the quantities of wastewater produced per day. The services offered by these companies have a strong impact on the environment due to the large quantities of water required during the production cycle and the contamination that the products impart to the discharge. This is why the design of wastewater treatment plants for this sector must take special requirements into account.

Wastewater from laundries is highly contaminated and primarily contains the following pollutants:

- **surfactants derived from the use of detergents in washing;**
- **suspended solids from textile fibres (lint or threads) released from garments during washing;**
- **organic pollution generated by 'soiling' of laundry or table linen;**
- **colour resulting from stone-washing treatments or dyeing.**

## Plants that incorporate water re-use

COMS recommends replacing chemical-physical and activated sludge plants with the new MBR concept.



The MBR reactors not only guarantee high standards of quality for the purified effluent, but also offer the potential of recovering a large part (up to 80%) of it for re-use in washing while replacing only the water that evaporates due to heat.

This option also allows for operational flexibility, and is therefore well suited to seasonal activities or varying hydraulic loads. We have collaborated in the construction of wastewater treatment plants to serve the laundry, dry-cleaning and dyeworks sector:



table linen for canteens and restaurants



hotel and hospital linen, work clothes.



carpets and upholstery



stone-washing of garments



dyeing of socks and woollen or cotton fabrics



COMS Srl has collaborated in the construction of the wastewater treatment plants of the above-mentioned companies.