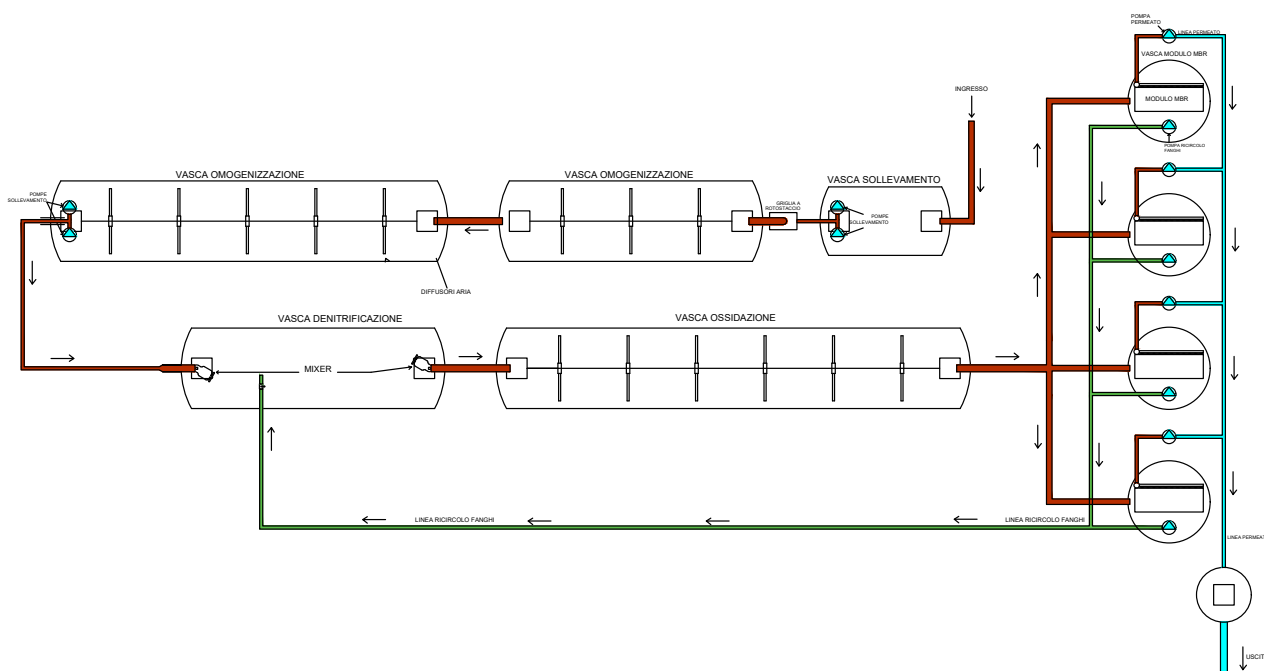




The proposed solution is an MBR-type technology used in biological treatment plants for both domestic and industrial wastewater, with possible variations in flow rate and/or pollutant load. The biological treatment process, where organic substances are broken down, takes place in a single tank through bacteria known as “activated sludge”.

The MBR (Membrane Biofilm Reactor) technology is, in all respects, a biological system with attached biomass, utilizing submerged filtering modules within the mixed liquor (water-sludge mixture). This technology significantly reduces the required volume of the oxidation tank and eliminates the need for a sedimentation tank.

Furthermore, the MBR system—through its membrane filtration—removes microorganisms such as *Escherichia coli* and *Cryptosporidium*, as well as suspended solids (SS), much more effectively than conventional sedimentation processes.

MBR PLANT FOR 1000 POPULATION EQUIVALENTS WITH FIBERGLASS TANKS

TANKS	No. 9	MBR MODULE	No. 4
ROTARY DRUM SCREEN COMPACTOR . .	No. 1	ELECTRICAL CONTROL PANEL	No. 1
LIFTING + EQUALIZATION ELECTROPUMPS	No. 4	TECHNICAL ROOM	No. 1
MIXER	No. 1	GENERATOR UNIT (optional)	No. 1
AIR BLOWERS (alternatively AIRGET system)	No. 2	MAXIMUM POWER	KW 15

The above data are indicative; our technical department will make any necessary adjustments during the customize planning phase.

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DEPURAZIONE ACQUE

