

VALIDATION OF THE EFFICIENCY OF THE DID BIO PROTECT BIOCIDES TREATMENT ON THE TOTAL MICROBIAL CHARGE OF WATER AND ON BACTERIAS SUCH AS *LEGIONELLA*

DBP16 MODULE

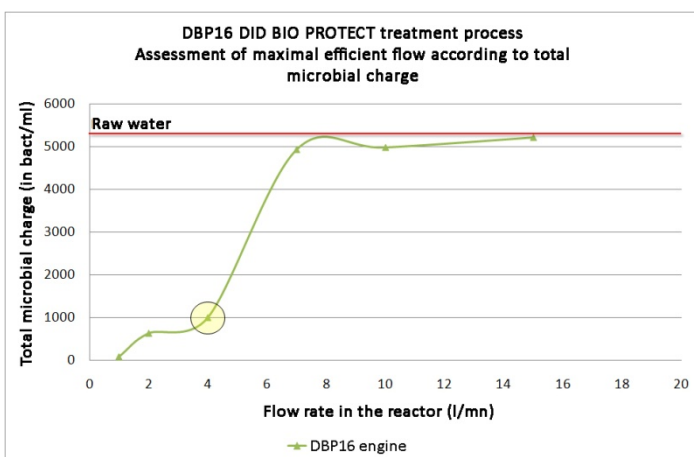
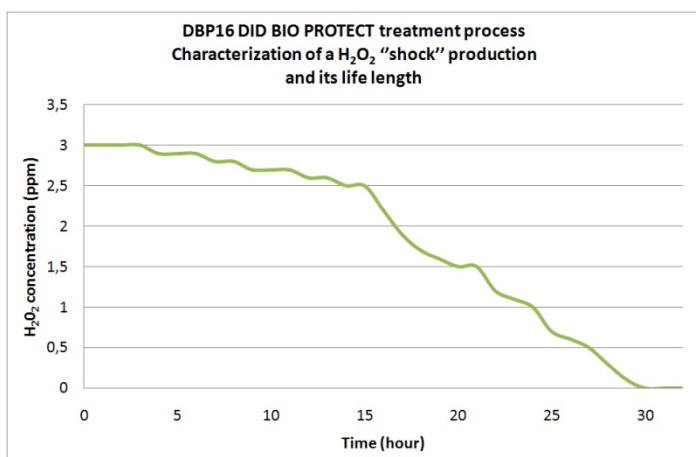


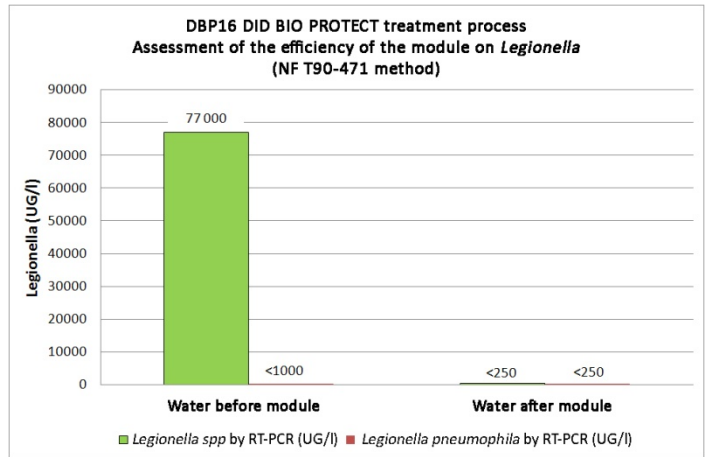
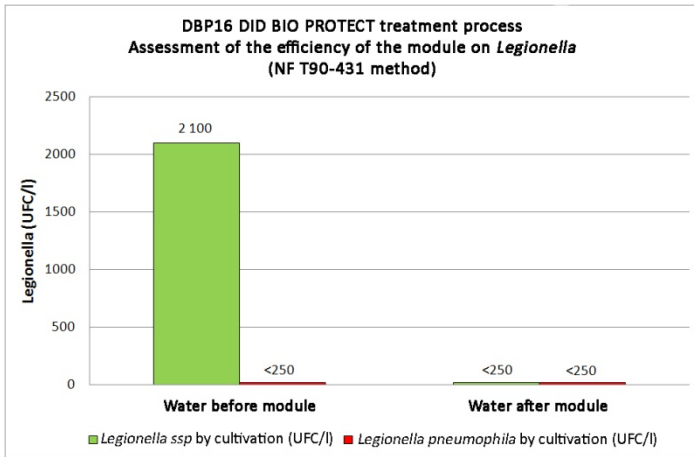
Presentation of process tested:

The DBP16 DID BIO PROTECT water treatment process developed by DID Clim (23, avenue Auguste Vérola - 06200 NICE - FRANCE) has been elaborated in order to reduce the microbial charge on water intended for human consumption (RT1 category) and for technical use RT2 by coupling of a physical treatment (UVC light) and a chemical treatment (photocatalysis device and oxidizing).

Field of the study:

The DBP16 DID BIO PROTECT treatment process has been tested under normal and real conditions of normal use on natural water. The efficiency of the process, directly linked to the maximal efficient flow, has been evaluated from for a UVC light power of 16 W with analysis issued of biological molecular technologies (real-time PCR according to NF T90-471 standard and ATP-metry) and from standard bacteriology (culture of revivifiables micro-organisms and *Legionella spp* (including pneumophila) according to NF T90-431 standard.





Results:

The DBP16 DID BIO PROTECT of the DID CLIM company allows a significant abatement on total microbial charge and on the quantity of *Legionella* present in raw water and has been considered as efficient according to the technical following specifications:

Maximal efficient flow on *Legionella* bacteria and on total microbial charge on circulating water:

- DBP16 reactor: significant efficiency validated up to 4 l/min (0,24 m³/h)

