

# Food & Beverage: FireWall

(HOD system installed at the water inlet)



## HOD Hydro-Optic Disinfection Technology

HOD FireWall - the ideal solution for the Food & Beverage industry



Inactivate all harmful microorganisms

Maximize plant water quality

Minimize the use of chemicals and avoid residual carcinogenic substances

Save on electricity, chlorine and labor costs

ROI in less than one year

### CASE STUDY

**Project:** Tnuva Dairy plant

**Location:** Eilon Tavor, Israel

**Flow rate:** 360 m<sup>3</sup>/hr

**Water source:** Municipal water

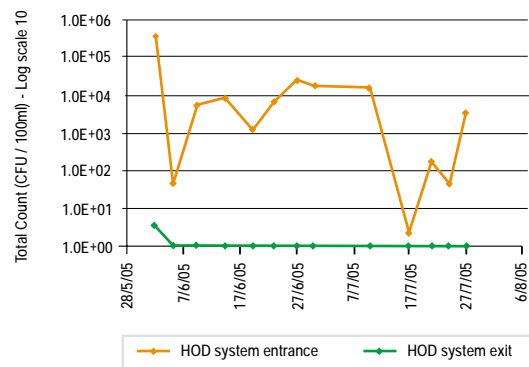
#### Before:

**Old disinfection system:** Chlorine contact tank. Electric feed pump (100kW). Labor intensive, complex maintenance, high electric and chlorine expenses.

#### After:

**HOD FireWall:** 3 single light source HOD units processing up to 120 m<sup>3</sup>/hr each. Deactivation of all pathogens (>5 log), low maintenance, huge savings on electricity, chlorine and labor costs.

**Results:** Zero bacteria in treated water entering the plant. Savings from closing the feed pump, reducing chlorine and improved water quality gave a quick ROI in less than one year.



**HOD FireWall:** Complete inactivation of pathogens in "Eilon Tavor" dairy water system



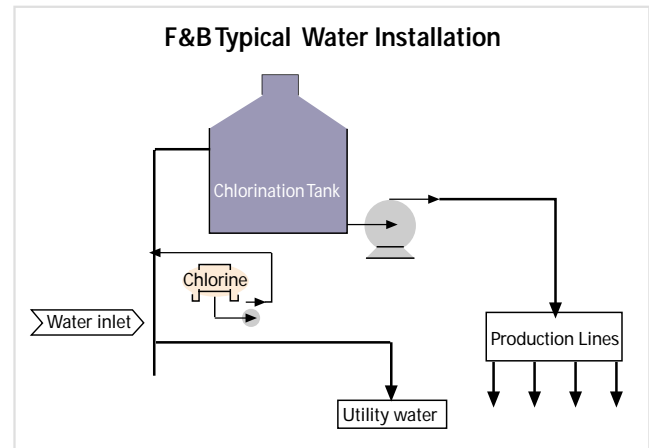
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## Background & Challenges

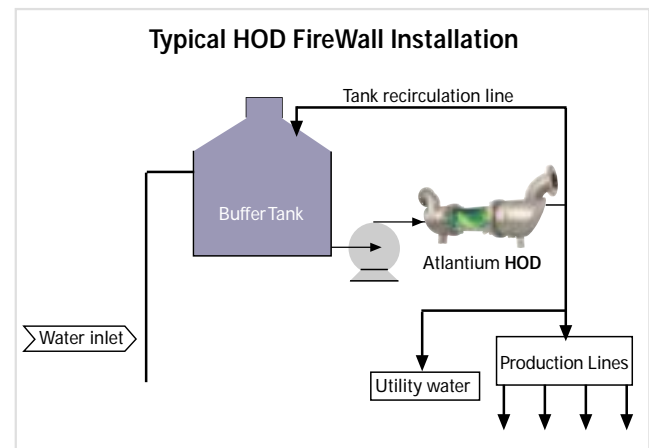
- Raw water to F&B plants can be of uneven quality
- Product and process water require premium water quality
- Current disinfection methods are expensive and use chemicals
- The F&B industry is always on the lookout for cost effective and environmentally friendly technologies
- Traceability demands process monitoring and records
- Risk of product re-call is a constant threat



## Atlantium's ultimate solution: Fire Wall

### HOD technology offers enormous benefits:

- Sleep Well at Night solution: guarantees zero-log bacteria whether the inlet has 1,2 or even 6 log
- Environmentally friendly solution; can replace chlorine and minimize chemical usage
- Low operation costs and simple maintenance
- Real time monitoring
- User friendly control system facilitates traceability
- Cost effective - quick ROI



## HOD technology

Taking water disinfection to unprecedented levels of effectiveness and reliability