# REFERENCE LIST

SEMICONDUCTOR
SOLAR
PHARMA
POWER GENERATION
FOOD & BEVERAGE
PULP AND PAPER
CHEMICAL
OIL AND GAS
MINING

AEROSPACE AND TRANSPORT



An aquarion Group Company

# Ophtecs (Euro) Ltd

Pharmaceutical Water Treatment



Ophtecs Corporation is the leading manufacturer of contact lens cleaning products in Japan. In 2002, Ophtecs established a subsidiary, Ophtecs (Euro) Ltd., with the intention of expanding its business into Europe and the USA. The newly constructed plant in Ireland currently manufactures Contact Lens Care Cleaning solutions and general liquid products for ophthalmic use. The main ingredient used in the manufacture of these products is Purified Water.

H+E have designed, manufactured, installed and validated a range of systems from Purified Water (PW) and Water for Injection (WFI) Systems, to Product Preparation and Filling Systems. These systems were fully validated and satisfied the specified FDA, USP and European Pharmacopoeia guidelines.



**Purified Water Room** 

The water treatment plant and filling equipment supplied includes the following main elements:

#### **Purified Water Treatment**

**Duplex water Softener** 

pH adjustment system

Primary twin pass RO system

Secondary RO system

UV Sterilisation systems

Mixed bed polishers

Pure Steam Generator

Water softener for cooling tower feed



**Pure Steam Generator** 

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## **Medical Water System**

Mixed Bed Polishers PW Storage Water Heater High Purity UF System
Automatic multi-effect stillWFi storage



**Product Filling Room** 

## Product manufacture and filling systems

Four product mixing systems for cleaning fluids Two product mixing systems for medical fluids Product Filtration & Filling Stations CIP and SIP Systems

Systems incorporate fully automatic Clean in Place (CIP) and Sterilise in Place (SIP) systems.

All stages of production are automated, with PLC control and Man Machine Interface (MMI). Event loggers record all historical system events during routine product make up, filling and cleaning operations.

After completion of this plant, H+E provided technical and engineering support, together with routine service & maintenance. Our experience is that ultimately such relationships are to the benefit of both parties: Our clients ensure their plants continue to operate at peak efficiency and, with H+E's policy of continuous development,

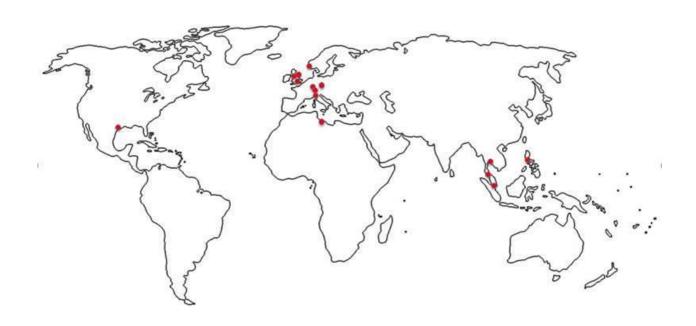


**Product Mixing Tanks** 

they also benefit from periodic reductions in operating costs. For H+E the benefits are to ensure that the plants we build continue to operate properly, that our customers are content, and that our reputation as a supplier of high quality systems is maintained.

In addition to the custom plants built for many companies, H+E manufactures a range of standard water treatment products for both pharmaceutical and a wide range of other applications

**H+E** ranks among the world's leading suppliers in the fields of: water & wastewater treatment, and energy efficiency. Based on its global presence, the **H+E GROUP** has completed projects in over 50 countries.





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