

# CASE STUDY

Client: Morning Foods  
End User: Self  
Project: Crewe Factory CIP System Upgrade  
Products: HevaSteam Steam/PDHW Packaged Heat Exchanger  
Date: April 2018

## Project Description

Arbe received an enquiry for the design and build of a potable water system for a CIP process for a food factory, with the primary medium available being steam. We designed the unit to operate at a higher than normal temperature for the CIP process. The client also required a potable domestic hot water supply for the public health system, so we provided a temperature controlled outlet for this, which had an integrated pasteurisation program for cleansing of the system on a daily basis.

The package was supplied on an open stainless steel support frame to ensure minimal maintenance would be required. The unit had a 600 kW plate heat exchanger and steam control system, controlled by a PLC control system with touch screen technology. The unit also had a 2000 litre stainless steel ADX direct storage cylinder, cold feed booster pump, secondary return pumps for both the CIP and DHW systems.

The unit was also designed for future incorporation of heat recovery from the existing site installed chillers, which would provide pre-heated water into the package, reducing steam usage.

