

# MAKING A DIFFERENCE

A HEALTHCARE  
FACILITY INSTALLATION

The iFMS  
Packaged  
Pump  
Solution was  
manufactured  
off-site and  
installed  
with little  
interruption  
to ongoing  
services.

Reducing the  
impact of  
the project  
on building  
occupants  
was  
paramount,  
so off-site  
manufacture  
was an ideal  
solution.

Armstrong's  
UK National  
Sales Manager

## UK Hospital

The Design Envelope iFMS is a factory-assembled, packaged pumping system. iFMS uses advanced variable-speed technology to adjust pumping speed in response to HVAC system demand.

## Background

An innovative packaged pump solution is helping a UK hospital reduce energy costs and improve sustainability. As the equipment was manufactured off-site, disruption could be kept to an absolute minimum during installation and commissioning, for patients, staff and visitors.

Fitting modern technology into existing buildings in busy urban areas presents technical and practical challenges, but Armstrong was able to provide an innovative solution. The equipment selected for the site was an Armstrong iFMS - a prefabricated all-variable pump station, designed using 3D CAD models and delivered to site as a single, complete unit. The iFMS incorporates perfectly-designed and calibrated Design Envelope 4300 Vertical In-Line pumps. Built-in Sensorless technology adjusts pump output to meet the immediate load, without relying on external sensors.

The iFMS package was fitted with multiple pipe headers. This addressed the challenge of retrofitting an older building that was not originally designed to incorporate modern HVAC technology. Manufacturing the pumping package means that the assembly work could be completed concurrently with the construction of a larger hospital expansion. This effectively removed the pump assembly and installation work from the critical path. Off-site manufacture also reduced the amount of contractor access necessary for the project.

Reflecting on the success of the project, Armstrong's UK National Sales Manager commented, "Reducing energy costs is a major concern, and the new equipment will provide significant benefits at the site."

## Tech-info

- Intelligent Fluid Management System Including:
- Series 4300 Design Envelope Vertical In-Line Pumps
- Flo-Trex Valves
- Suction Guides
- Integrated controls and set-mounted IPS controllers