

The Princess Alexandra Hospital

NHS Trust



Following a successful trial, The Princess Alexandra Hospital in Harlow has chosen to refurbish all of its public toilets. Propelair technology brings substantial hygiene benefits, alongside increased flush efficiency which has added value by eliminating blockages in extreme high usage areas where issues had previously arisen on a daily basis.

“We were experiencing blockages nearly every day in one public toilet located outside maternity which was very heavily used. Since replacing this with a Propelair unit 10 months ago there have been no reported blockages. The women’s staff toilet used to block on a daily basis too, but this hasn’t happened since installing Propelair 4 months ago. The toilets work really well and offer savings not just on water but on maintenance costs and call-outs too.”

Bill Dickson, Energy & Environment Manager (Estates & Facilities Dept)



- The installation of Propelair toilets across the site will achieve an **81% water saving**
- Annually this will **save over 20 million litres of water** (building utilisation = 365 days)
- An annual **carbon reduction of approximately 21,000 kg**



- 20 million litres of water saving = **£65K reduction in water bills annually**
- Payback achieved in **2.3 years**

*See table below for flush data, annual savings and payback



- Propelair’s unique displaced air technology efficiently **removes all waste with one flush**
- Reduces airborne germs by up to **95%**
- Removes up to **99.9%** of waterborne contaminants

*All figures represent a single Propelair unit

Metered Water Charge	Flushes per Day	Previous Flush Volume	Annual Savings		Payback
			Water	Financial	
£3.13/m3	55	8 litres	130,488 litres	£408.43	2.3 years