

Case study: Retail

## MHI offers bowling centres energy savings of up to 38%



### Fact file

Project	The Original Bowling Company
Project outline	Replacement air conditioning system for four Hollywood and AMF Bowling Centres
Installer	Mercury Services Management
Products	MHI multi-split heat pump system



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High efficiency climate control from Mitsubishi Heavy Industries (MHI) has scored a strike at The Original Bowling Company, the UK's number one ten pin bowling operator. Outdated heating and cooling plant has been replaced with MHI heat pump systems at four Hollywood Bowl and AMF Bowling Centres so far, with further sites to follow in an ongoing refurbishment programme. The new systems employ MHI's inverter technology offering variable capacity control for consistent temperatures and energy savings of up to 38%.



To date, Midlands-based Mercury Services Management (MSM) has installed MHI heat pump systems to air condition cafes, bars and games arcades at Hollywood Bowl centres in Glasgow, Stevenage and Watford, as well as the AMF Bowling Centre in Ashford. Increasingly expensive to run and to repair, the existing HVAC systems were ready for replacement says MSM Project Engineer, James Childs. "The old cooling systems also used ozone-depleting R22 refrigerant, which will be illegal to service in a few years time so it's an ideal opportunity to get ahead of the ban," he comments. The Original Bowling Company's Commercial Director, Mark Root, added: "The new installations are part of our ongoing commitment to improve the experience of our customers."

MSM recommended an inverter heat pump system from MHI, which runs on eco-friendly R410a refrigerant and combines energy efficient heating or cooling with a high degree of control. James Childs continues: "MHI provided the best price-performance package for these installations, and

offered a future proof solution that can be integrated with a BMS if required at a later date."

The MHI heat pump systems for the Hollywood Bowl consist of four FDC-250 outdoor units employing inverter scroll compressors, which adjust output to match cooling or heating demands for reduced running costs. Each outdoor unit is connected to 2 x 125 indoor units, which are either FDT-125 ceiling cassettes or FDUM-125 ducted models, or a mix of both depending on the layout at the

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centre. Recessed cassettes and ducted units concealed within the ceiling space were selected to provide Hollywood Bowl with greater flexibility during future refurbishments of interior décor. Each FDC system performs in a cooling range of 10.6 to 28kW and a heating capacity from 9.5 to 31.5kW. Systems are supplied as standard with a 7-day/24-hr programmable timer.