



#### A2LsystemMatch Installation – 4 Systems

Marstair were approached to provide an A2L solution for cold room systems at Kibworth. Four A2LsystemMatch systems were successfully deployed and have been evaluated against CO<sub>2</sub> technology as both refrigerants provide future-proof solutions.

An evaluation was conducted against the former CO<sub>2</sub> solution from an Energy, Emissions, CAPEX, Volume Charge and Total Cost of Ownership, with the results shown below:

#### **Annual Energy Consumption – Reduced by 21.1%**

Marstair through its A2LsystemMatch product have helped Coop significantly eliminate the current energy price increases in its Kibworth Store.

#### **Annual Emissions – Reduced by 31.4%**

The low GWP of R454A combined with the energy efficiency of our A2LsystemMatch product is such that it significantly reduces the TCO<sub>2</sub>\*.

\*Based on a 3% leak rate and an emissions factor of 0.21233.

#### **Capital Cost – Reduced by 43.6%**

With a similar installation process to HFC equipment, A2LsystemMatch can be installed and commissioned, with very little additional training and at a much lower overall cost than CO<sub>2</sub>.

#### **Refrigerant Charge Volume – Reduced by 81.4%\*\***

Our unique design keeps the refrigerant charge level to a minimum. This allow A2LsystemMatch to keep within 20% of the LFL when installed within the smallest of cold rooms.

\*\*Each system meeting BS EN-378:2016.

#### **Total Cost of Ownership – Reduced by 25.4%\*\*\***

As the F-Gas phase down starts to bite A2LsystemMatch is a cost-effective alternative to CO<sub>2</sub> in all Coldroom applications.

\*\*\*Based on 20-year energy performance + CAPEX.

Marstair provided significant value at the Co-op's Kibworth store!

*"The Co-op are delighted that their store at Kibworth has been future-proofed with low-GWP refrigeration systems that save energy, capital cost whilst also reducing system emissions. When compared to CO<sub>2</sub>, the four A2LsystemMatch systems will save an incredible >25% across a 20-year Total Cost of Ownership!"*

