

# **HA 01 Energy Efficiency opportunities**

Current estimated energy use and split of energy uses



**Key energy efficiency opportunities**

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| **Location/opportunity type** | **Current equipment** | **Current annual energy cost** | **Proposed replacement** | **New annual energy cost** | **Replacement cost (£ Inc VAT)** | **Estimated annual energy savings** | **Investment break even (years)** |
| Over counter displays | 20+ year old over-counter chillers (approx 16m2) | £4,800 (approx.) | Replace with efficient new displays | £2300 (approx.) | £10,000 (approx.) | **£2,500 (approx.)** | 4 (approx.) |
| Back room/ Refrigeration | 20+ year old freezer room approx 16m2, 20+ year old chiller room approx. 12 m2 | £2,800 (approx.) | Full replacement | £950 (approx.) | £22,700 (approx.) | **£1850 (approx.)** | 12 (approx.) |
| Lighting | 16x T8 (4ft) fluorescent tubes (approx 50-70w).  6x G10 Halogen display downlighters (shop window) | £580 (approx.) | LED T8 tubes (22w), 6x LED G10 displays | £130 (approx.) | £150 (approx.) | **£450 (approx..)** | 4 months |

**Operational procedures which save energy**

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| **Location/ measure** | **Operational procedures which save energy - Description** | **Typical Annual savings (approx.)** |
| Freezer room, cold room | Adjust cold room operating temperatures to -18C | £70 |
| Keep evaporators free of ice | £100 |
| Minimise door openings / keep doors closed | £230 |
| Adjust latches for tight fit on door seals | £30+ |
| Rationalise cold storage space | £500+ |
| Chilled displays | Rationalise chilled storage space | £300+ |
|  | Do not over-fill shelves | £60 |
|  | Re-set chiller display temperatures | £80 |