

Customer References -British Isles

P.A.Hilton Ltd. has helped to set up numerous Mechanical Engineering Labs around the world over the last half century. We can supply customer lists by country or by product on request. Relevant reference sites in the British Isles for P.A.Hilton Ltd equipment include:

The image features a map of the British Isles (Great Britain and Ireland) with three blue callout boxes listing universities. The map is labeled with 'SCOTLAND', 'NORTHERN IRELAND', 'IRELAND', 'WALES', and 'ENGLAND'. Major cities marked on the map include Glasgow, Edinburgh, Belfast, Newcastle upon Tyne, Manchester, Cardiff, Dublin, and Cork.

- Scotland & Northern Ireland**
 - Queen's University Belfast
 - University of Edinburgh
 - Ulster University
- Northern & Central England**
 - De Montfort University
 - Nottingham University
 - Loughborough University
 - Northumbria University, Newcastle-Upon-Tyne
 - University of Newcastle-Upon-Tyne
- Southern England**
 - Exeter University
 - University of Hertfordshire
 - Imperial College London
 - London South Bank University
- Republic of Ireland**
 - Athlone Institute of Technology
 - Carlow Institute of Technology
 - National University of Ireland, Galway

Mechanical Engineering Laboratory Proposal

P.A.Hilton Ltd.

<p>Refrigeration</p>	<p>R634 Refrigeration Cycle Demonstration Unit R515 Mechanical Heat Pump R560 Water Water Heat Pump R833 Air and Water Heat Pump R715 Refrigeration Laboratory Unit <i>For more see 'Refrigeration & Air Conditioning' brochure</i></p>	<p>R434 Vortex Tube Refrigerator R534 Thermoelectric Heat Pump 812 Water Chiller Trainer 816 Absorption Refrigeration Demonstrator</p>
<p>Renewables</p>	<p>RE540 Photovoltaic Trainer RE550 Flat Plate Solar Energy Collector RE570 Horizontal Axis Wind Turbine RE580 Combined Wind & Solar Generator Demonstrator <i>For more see 'Energy' brochure</i></p>	<p>RE510 Educational PEM Fuel Cell</p>
<p>Structures</p>	<p>HST2 Simple Suspension Bridge HST17 Forces in a Truss (Resolution) HST45 Buckling of Struts HST46 Combined Shear Force & Bending Moments Apparatus <i>For more see 'Structures' brochure</i></p>	<p>HST19 Pin-Jointed Frameworks HST16 Redundant Truss</p>
<p>Thermodynamics</p>	<p>F860 Single Stage Compressor Test Unit F865 Two Stage Compressor Test Unit H813 Dew Point Hygrometer H050 Boyles Law Demonstrator H893 Bench Top Cooling Tower P372 Jet Propulsion Test Stand S220 Rankine Cycle Steam Turbine <i>For more see 'Heat Transfer', 'Compressible Flow & Aerodynamics' and 'Energy' brochures</i></p>	<p>H411 Flow Boiling Demonstration Unit H911 Film & Dropwise Condensation</p>
<p>Vibrations & Acoustics</p>	<p>HVT5 HVT12 Universal Vibration Apparatus HVT13 Torsional Vibration Apparatus HVT14 Spring Mass Vibration <i>For more see 'Vibration' brochure</i></p>	<p>B400 Acoustic Impedance Tube B600 Noise Control Demonstration Unit HVT20 Stability of Structures Apparatus</p>

Laboratory Layout & Design

Whether a fully new laboratory is being constructed or an existing laboratory is being refurbished, it is crucial to ensure physical laboratory space is of optimum design to contain the units. If modifications are required, it is best to plan these in advance of receiving equipment on-site.

Services Required:

- Once you have selected the units of interest, refer to the technical leaflets or website for more information on the services required, which may include:
 - Water
 - Drain
 - Electricity
 - Peripherals such as computers/laptops/tablets
- Lab furnishing and layout - consider:
 - Weights and dimensions of units
 - Storage of peripherals
 - Access for loading and transporting units
 - Working areas for students and technicians

How we can help:

- Pre-purchase – we can assist with:
 - Lab planning
 - Selection of appropriate products against syllabus requirements
 - Site visits and advice on layout and services required.
- Post-purchase – we can assist with:
 - Installation
 - Commissioning
 - Training of Technical and Teaching staff on-site

Next Steps



Above: The Opening Ceremony Newcrest Mining Laboratory at the University of Queensland, Australia, the culmination of many months of planning at the University with the assistance of P.A.Hilton Ltd.

We would be pleased to assist with helping you take the next steps towards completing your new Mechanical Engineering Laboratory.

We have provided information within this guide as a general overview, so do get in touch so we can put together a package suited to your individual requirements.

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Page 8
