



RPI

Refrigeration
Performance
Indicator

RPI | Refrigeration Performance Indicator

Data Driven Solutions for Selecting the Most Efficient Refrigeration System

RPI is an analytical software tool that enables system designers and businesses to select the most efficient, cost-saving refrigeration systems for their premises. It does so by providing data that shows the most efficient option in the form of easy-to-read graphs. A unique tool in the industry, the graphs allow users make like-for-like comparisons between individual refrigeration display cases, coldroom evaporators, system designs, or sites.



Reduce Energy Use



Lower Your Carbon Footprint



Keep Operational Costs Low

Choosing The Most Efficient Refrigeration System

By Making Like-for-Like Comparisons

Industry First

The efficiency of a refrigeration system depends on the environment it is used in. With RPI, businesses can compare whole systems and individual components like-for-like to choose the one best suited for a particular site.

When analysing system efficiency, RPI allows businesses and system designers to consider factors such as energy use, heat reclaim, asset size, different manufacturers' equipment, and environmental conditions. RPI also calculates an electrical coefficient of performance (COPE) for the entire refrigeration system to enable users to identify the most efficient, cost-saving system using situationally adjusted data.



Once a refrigeration system has been installed on-site, users can:

- Identify inefficient system components
- Assess the impact of retrofits or changed settings
- Analyse system design and performance
- Spot maintenance issues

Energy Management & Predictive Maintenance

Ensure Low Running Costs of Refrigeration Systems

Pinpoint areas of high energy use

Using RPI's situationally adjusted performance data for individual system components, users can identify system components with unusually high energy use. Identifying which component uses too much energy helps businesses carry out corrective action and predictive maintenance. This, in turn, keeps maintenance and operational costs low while reducing the carbon footprint and maintaining the system efficiency.



Detecting faults with RPI: easily detect unusual energy spikes that indicate equipment issues

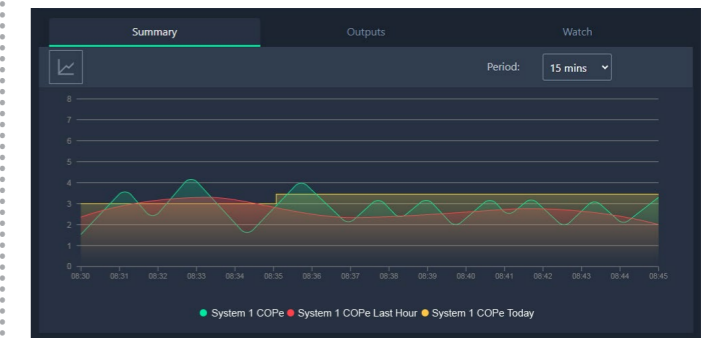
Enabling Data-Led Decisions

By Providing Access to Granular Data

RDM are a strong advocate for taking data-led decisions, especially when it comes to reducing energy and ensuring efficient operations. That's why RPI was designed to allow businesses to access granular data about their refrigeration system components.

RPI calculates evaporator duty and breaks it down into live value, last hour average, running daily total and previous 24-hour total. Display case duty is split into total device duty and duty/m length to allow comparing efficiency adjusted for length. Similarly, Coldroom evaporator duty can be provided as duty per metre squared or cubed to compare efficiency adjusted for size. Overall system duty output, heat reclaim output, electrical energy input, and COPE, are also broken down further to provide detailed energy data.

RPI can also assist with efficiency trials. Running the RPI tool before, during, and after wider equipment trials can help determine equipment performance.



Identify the most efficient, cost-saving system using graphical representations of COPE data.

More Information

To find out more about RPI, simply contact us at sales@resourcedm.com



Resource Data Management

Helping companies stay safety-compliant, protect assets and manage energy, we offer a range of hardware and software products for HVACR, building and energy control applications. Our solutions are used in many industries including food retail, building management, cold chain, food processing and many more. Users have the

option to monitor and control everything from a single component to building-wide energy use, across a national estate and devices worldwide.

As a pioneer in advocating open control systems at device level, our ongoing push for genuinely open protocols, including XML and web services, has helped our customers save operating

costs and optimise control strategies.

Founded in 2000, RDM have expanded over the past two decades. With offices in the UK, US, and Malaysia, as well as affiliates and distributors across the globe. We support customers worldwide.

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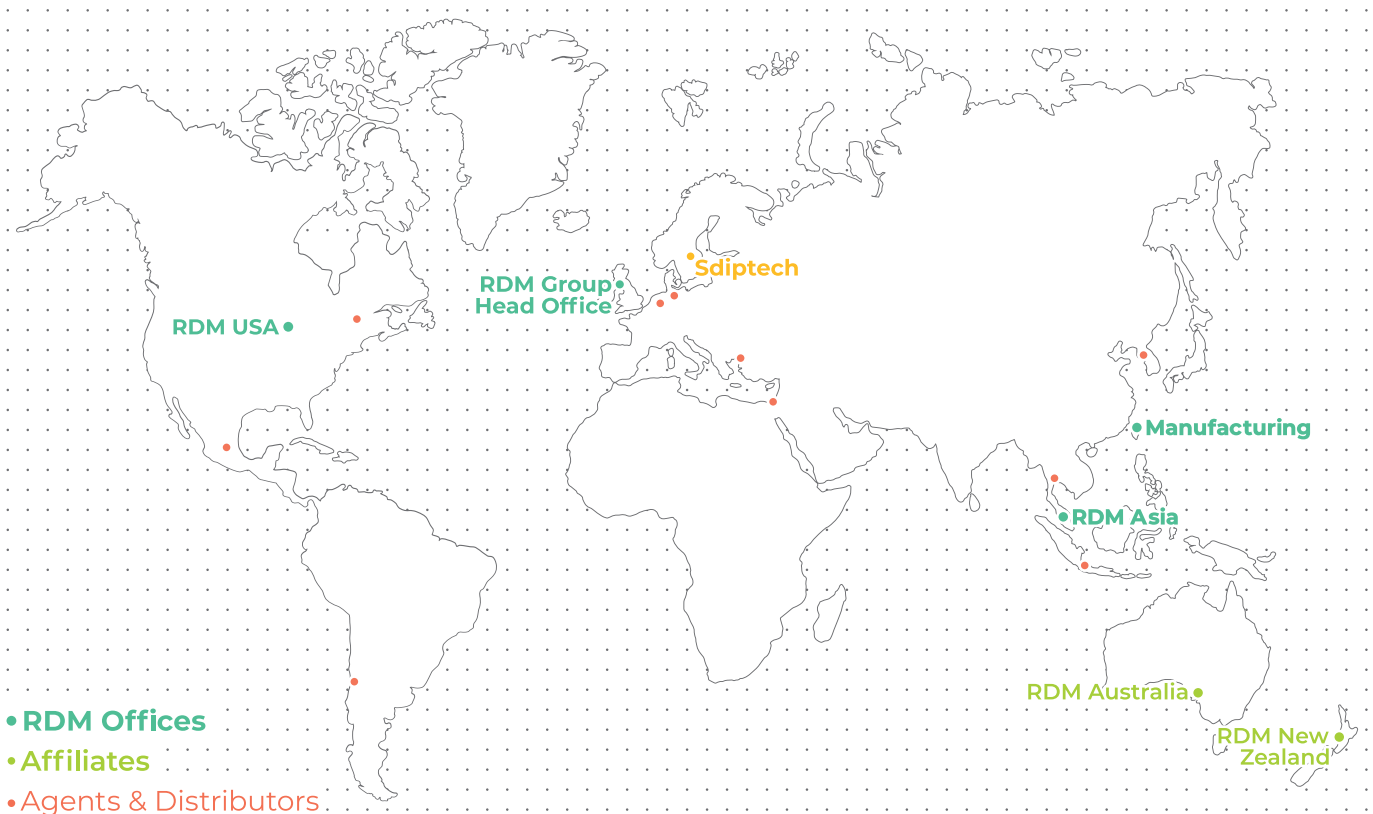
Warranty

LIFETIME

Software Licences

OPEN

Protocols



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