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## **CoolTool set to revolutionise acr project design**

A new kind of software package over ten years in the making is set to revolutionise the process of acr system design.

CoolTool brings together a vast library of information about systems, components, and ways of combining them.

The multi-purpose calculation and design tool determines the appropriate sizing and configuration of plant to suit an almost limitless number of applications, for any refrigerant.

It then selects all components required for a design from a database of more than 25,000 products, providing a choice of options for equivalent products from the leading manufacturers, including Bitzer, Copeland, Danfoss, Searle, Carrier, Sporlan, Alco – to name a few.

For a given project, it enables accurate assessment of air flows, cooling loads, heat gain, suction line sizing, and will even determine its PED Category and produce a Certificate.

Mike Creamer, md of UK sole distributor Business Edge, says:  
“CoolTool enables users to accomplish in a few minutes what would take days using a combination of other stand-alone programs, or a week using manual calculation and manufacturers’ printed catalogues.”

Once the design is completed, CoolTool produces detailed parts lists, design drawings, and a plant spec that can be printed or sent direct to the client.

CoolTool is the product of Mergl Engineering, a German software and rac engineering specialist, which has been working on the product for more than a decade.

It can handle one and two-stage compression systems, using both conventional and new refrigerants, taking account of any glide characteristics. It can also cater for compound dx plants, secondary systems, and flooded designs - with up to 40 evaporators or coolers.

CoolTool is being widely used by designers and contractors on the Continent as a single killer solution, in place of a host of un-integrated packages addressing parts of the overall job. Several thousand installations of the program are now in use across Europe and beyond.

Mike Creamer says: “It is without doubt one of the most flexible, powerful and multi-faceted resources available for rac engineers and designers.

“I have used it in live situations to solve some really challenging design problems. It is literally light years ahead of anything else I have seen.

“The knowledge base itself replaces a conventional library of paper-based information – this simply isn’t available in a single-source electronic form elsewhere. Its ability to instantly prepare alternative design options – down to individual component level – is also a fantastic aid to learning for students. It would take months and years to replicate this experience in the field.”

He added: “Business Edge Ltd has written a vast amount of OEM and commercial software engineering programs since 1992, including our famous Quantum Suite. CoolTool is entirely complimentary. We saw no point in trying to *reinvent the wheel*, when Mergl Engineering has already produced an outstanding, planet-leading product.”

ENDS

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