

PRESS RELEASE

OEM Partnership between TRUMPF and Efficient Energy for Sustainable Cooling of Laser Cutting Machines

New Eco Cooler From TRUMPF With Cooling Technology From Efficient Energy

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Efficient Energy, the manufacturer of climate-friendly cooling technology that uses water as a refrigerant, and TRUMPF, the high-tech company and market leader in manufacturing solutions for machine tools and laser technology, have developed a unique cooling solution for the climate-friendly cooling of TRUMPF laser cutting machines. TRUMPF's Eco Cooler uses pure water to cool the laser cutting machines and runs on cooling technology supplied by Efficient Energy.

Climate-Friendly Cooling Solution With Water as a Refrigerant

The Eco Cooler is a new, sustainable cooling solution for cooling TRUMPF laser machines during the cutting process – using 100 percent water as a refrigerant. The innovation saves 80 percent of the energy previously used to cool the laser cutting machines.

“Sustainability increasingly offers a key competitive advantage – especially given the rise in energy costs,” says Stephan Mayer, Chief Executive Officer for machine tools at TRUMPF. “To ensure their operations remain viable, sheet-metal processors should be shifting to climate- and eco-friendly technologies. The Eco Cooler will help our customers save energy and reduce the use of harmful substances in production. We see an opportunity here to improve the environmental footprint of the industry as a whole and to drive down costs at the same time.”

TRUMPF developed the Eco Cooler together with Efficient Energy. The solution will be unveiled at EuroBLECH in October and will be available for TRUMPF's 1000 to 5000 Series laser cutting machines thereafter.

“We're delighted that we could help TRUMPF develop this energy-efficient refrigeration concept with our Blue^{zero}® technology which uses water as a refrigerant. As a pioneer of this innovative refrigeration technology, it naturally also makes us proud to be supplying our products to an international market leader such as TRUMPF,” adds Georg Dietrich, CEO of Efficient Energy.

Water – The Natural Refrigerant

The clean tech company Efficient Energy uses its Blue^{zero}® technology in its eChiller product range, enabling water as a climate-neutral refrigerant and dispensing entirely with environmentally harmful F-gases. The technology is ideal for cooling industrial processes, machines, data centres and server rooms in building air conditioning.

The Most Sustainable Chiller Worldwide

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Efficient Energy has been producing its entire eChiller product range as climate-neutral chillers since 2022. As such, it has become the only refrigeration industry supplier worldwide to offer climate neutral chillers, and enables its customers to take further decisive steps towards a climate-neutral industry. By combining water as a refrigerant with green electricity, operators achieve entirely climate-neutral refrigeration, letting them reduce their carbon footprints in this area to zero.

About Efficient Energy

Efficient Energy GmbH is a manufacturer of sustainable refrigeration technology and based in the greater Munich area. The rapidly expanding clean tech company, which has been on the market since 2018, is pioneering clean cooling and clean heating with its Blue^{zero}® technology enables water (R718) as a refrigerant. The climate-neutral certified chillers of its eChiller product family dispense entirely with environmentally harmful fluorinated refrigerants and set new standards in energy efficiency and safety in the refrigeration industry. Efficient Energy has set itself the goal of actively shaping the climate revolution with customer-orientated, innovative and environmentally friendly solutions. The company has received several awards including the *European Commission's European Business Award for the Environment* for Europe's most innovative and sustainable product solution in 2018/2019, the G20 Innovation League's *Cleantech Top 20* for its outstanding contribution to solving the global climate crisis, and gained 3rd winner as growth champion by Deloitte's *Technology Fast 50 Award 2021*. <https://efficient-energy.de/en/>

About TRUMPF

TRUMPF is a high-tech company offering manufacturing solutions in the fields of machine tools and laser technology. The Company drives digital connectivity in the manufacturing through consulting, platform products and software. TRUMPF is a technology and market leader in highly versatile machine tools for sheet metal processing and in the field of industrial lasers.

In 2021/22, the company employed some 16,500 people and generated sales of about 4.2 billion euros (preliminary figures). With over 70 subsidiaries, the TRUMPF Group is represented in nearly every European country as well as in North America, South America and Asia. The company has production facilities in Germany, France, the United Kingdom, Italy, Austria, Switzerland, Poland, the Czech Republic, the United States, Mexico and China. Find out more about TRUMPF at www.trumpf.com

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