



The German Federal Ministry for the Environment, Nature Conservation, and Nuclear Safety has conducted the 6th German Cooling Award – and Menerga is among the winners

Menerga's carbon-neutral cooling technology – based on hybrid, evaporative cooling – has been awarded 1st prize in the award category “Energy-Efficient Cooling and Air-Handling Systems with Indirect Cooling”

Within the context of its Climate-Protection Initiative, the German Federal Government has set the goal of achieving savings of ten percent of total energy consumption by the year 2020. This decision has provided the occasion by the German Federal Ministry for the Environment, Nature Conservation, and Nuclear Safety (BMUB) for inviting competitors to take part in the 6th German Cooling Award (German: “Deutscher Kältepreis 2018”).

Menerga took part in this competition for the coveted awards by submission of its Adiabatic^{zeroGWP} carbon-neutral cooling technology, based on its proven Adconair heat recovery system – and Menerga succeeded in convincing the expert jury. The solution – which combines indirect, adiabatic evaporative cooling with dewpoint cooling in one air handling unit – was honored with 1st prize in the award category “Energy-Efficient Cooling and Air-Handling Systems with Indirect Cooling”. As announced by Jan-Philip Wagner, Sales Director at Menerga GmbH, “Menerga will use the prize award of € 10,000 to support its apprentices and trainees. Since training enjoys high priority at Menerga, around 40 apprentices and trainees are now engaged in training programs at Menerga – which means that the prize money will be constructively invested in the future.

This Menerga cooling technology completely eliminates a conventional compression refrigeration system and uses only water as a refrigerant. Menerga technology allows not only positive consequences for the environmental balance of the system – since it produces no greenhouse gases – but also reduces power consumption of the fans by up to ten percent throughout the course of a year. This benefit results from elimination of the otherwise required cooling coils needed for refrigeration units or coolers in the air handling system.

This cooling technology employs indirect, adiabatic evaporative cooling in the first-half section of the heat exchanger. Outside air is therefore already extensively pre-cooled. In the second-half section of the heat exchanger, so-called dew point cooling takes place. For this purpose, part of the already pre-cooled outdoor air is withdrawn after its exit from the heat exchanger as process air

flow. Then it is directed back to the heat exchanger in accordance with the counterflow principle and again humidified. In this way, repeated indirect evaporative cooling takes place. Unlike conventional systems, the lowest possible supply-air temperature is no longer dependent on the wet-bulb temperature of the extracted air, but rather on the wet-bulb temperature of the pre-cooled outside air. This solution enables effective extraction of heat loads from climate-controlled rooms, even in cases of great humidity loads.



Menerga Adconair Adiabatic^{zeroGWP} carbon-neutral cooling technology, based on hybrid, adiabatic evaporative cooling, wins 1st prize in the 6th “Deutscher Kältepreis”.

Photo: Menerga GmbH



Federal Minister for Environment Svenja Schulze hands over the “Deutscher Kältepreis 2018” to Jan-Philip Wagner, Sales Director at Menerga.

Photo: BMU/Felix Zahn



All winners of the “Deutscher Kältepreis 2018”

Photo: BMU/Felix Zahn

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About Menerga

Menerga develops and manufactures innovative ventilation and air conditioning technology for diverse fields of application. We can safely claim that our technology is leading in all areas, and that we set the bench mark for efficiency and effectiveness. Our philosophy, “Creating a good indoor climate – through **Minimal ENERGY Application**,” is something at which we have succeeded every single day since the company was founded in 1980.

Menerga annual sales earned by the end of the most recent fiscal year were approx. €49.8 million, and the company employed around 410 employees in Germany and approx. 700 employees worldwide during this time.

Since 2013 Menerga has been part of the internationally successful Systemair Group, which is a leading company in ventilation and air conditioning technology.

For more information on Menerga, please consult www.menerga.com

Press Release



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