

Güntner Hydro Management: Perfect spray control

With the new, internally developed HydroSpray® System, the company Güntner presented to the market a spraying system with numerous application advantages. For perfect control of this unique spraying system, Güntner Controls developed the Güntner Hydro Management – the controller GHM spray.



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The controller GHM spray controls the water spraying depending on the performance required of the heat exchanger and the gauged temperatures and pressure. The heat exchanger's performance is thus enhanced. Necessary information, e.g. fan speed, are read out via bus communication and transmitted. Two systems are available, the Güntner Motor Management (GMM) with GHM spray basic and the GMM with GHM spray professional. GMM and GHM are perfectly adapted to each other.

GHM spray basic

The basic variant is a single-stage system that activates spraying at a defined switching point and sprays all the fan chambers up to 300 h/a.

Depending on different parameters, e.g. pressure or temperature, the controller manages an even spraying of the heat exchanger to attain an increase in capacity in the peak load range. All GHM controllers are parameterized in accordance with the GPC calculation for the units, so the operating parameters are already adjusted to the geographical location of the units.

GHM spray professional

The GHM spray professional controller ensures that a maximum increase in performance is achieved over a spraying time of up to 1,000 h/a with consumption of just 50 % compared with conventional systems. Another feature is the automatic vacuum drainage which ensures that spraying is always carried out with fresh water and that no water that could freeze is left standing in the unit in the winter.

The absolute highlight of the GHM spray professional, however, is the so-called Section Cycling, which is able to control up to 9 heat exchanger sections individually. This means that the heat exchanger is sprayed according to sections, thus considerably reducing water consumption. Moreover, the heat exchanger's performance may be thus adjusted in very small steps, and the serving life of the heat exchanger is also maximised.



Numerous application advantages

Generally, spraying coils with water can significantly improve the performance of finned heat exchangers. Especially in refrigerating plants implementing free-cooling (e.g. for the cooling of server racks) it is possible to realise considerable energy savings by using a water spray system. It is possible to improve the COP by up to 40 % through using a spraying system in a refrigerating plant when there are high ambient temperatures and the spraying is used to lower the condensing temperature.

These advantages may be fully exploited and maximized particularly by using the appropriate controllers. So, it is profitable to make sure that concerted practices and systems with the appropriate features are being used!

About Güntner

Based in Fürstfeldbruck near Munich, Germany, Güntner GmbH & Co. KG is a world leader in the manufacture of refrigeration and air-conditioning equipment components. With 3,000 employees worldwide and production sites in Germany, Hungary, Indonesia, Mexico, Brasil and Russia, the company shows a strong presence for their partners in all markets. Decades of experience in the industry and the consistent integration of the latest technologies and research findings ensure the high quality standard of Güntner solutions. Users include the international automotive, foodstuffs, pharmaceutical and computer industries and numerous public sector institutions.

As a daughter of the A-HEAT AG, the company benefits from the inter-company information and know-how transfer which imparts decisive impulses to the different companies forming part of the Group.

Based in Vienna, Austria, A-HEAT AG, Allied Heat Exchange Technology AG, is an internationally active leading technology group with a strong focus on refrigeration and air-conditioning technology as well as process engineering. The group serves as holding company for the Güntner GmbH & Co. KG, JAEGGI Hybridtechnologie AG, thermowave GmbH and basetec products + solutions GmbH.

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