

gwk extends product range of compact chillers

The revised weco series – special solutions from one supplier

Kierspe. As a world class supplier of temperature control and industrial cooling systems, gwk Gesellschaft Wärme Kältetechnik mbH, Kierspe, has designed special solutions for numerous industries and applications. To round off the weco compact chiller series, gwk has now extended this product line to include the smaller range weco 01 to 09, providing a complete range from this revised version of the small wecos up to the largest system.

vary considerably depending on production location and season, reproducible, globally usable operating parameters can only be achieved by means of autonomous cold water generators. In the lower and medium performance range compact chillers are able to do this.



The advantage of compact chillers

Set up, connect, and ready to go: gwk compact chillers are products that are ready to use. For the end user this means that the machine is set up on site, connected and ready to be used immediately. There is no need for complex on-site installation. Many industrial processes are conducted by inducing and dissipating heat. Excess process heat is dissipated by selective cooling with cold water from the consumer. The process quality is often directly dependent on the constant temperature of the cooling water. As the environmental conditions

Leading by technology

The gwk weco series of air and water cooled compact chillers is cutting edge technology. The overall technological concept and the precisely working measuring and regulating technology with micro-processor controls that are custom made for the application allow exact temperature control. In comparison to the capacity of the machine the construction is very compact, which allows setup even when space is very limited. "All our compact chillers are high-quality products and a result of more than 40 years of experience in industrial coo-

ling", says Markus Buch, manager for development of chillers at gwk. "A major part of the machines is still operating daily after 20 years of use, often under extreme conditions."

Environmental protection

As a specialized company for energy saving technology gwk is conscious of its responsibility to the environment. For many years environmentally compatible coolants have been used throughout for the development of all refrigerating machines. Coolants that are partially halogenated are not used; only the chlorine-free coolant R 134a is now used as a standard. Damage to the ozone layer is thus completely avoided. Another, crucial advantage of R 134a is the high operational reliability of a chiller operated with this coolant in high environmental temperatures. "This is a feature that every production manager appreciates on a hot summer day", says Markus Buch.

The large wecos

The performance features of the weco series underscore the technological advantage of the machines. "In this series, there are a number of very useable options; therefore our compact chillers can be individually adjusted to the respective local conditions and requirements", says Markus Buch emphasizing the advantages of the gwk machines.

Scroll compressors up to construction size 71 or continuously regulated screw compressors from construction size 145 as well as the application of the chlorine-free coolant R 134a for the cooling circuit represent optimal energy utilization (high COP value) of the chillers. Furthermore, the compressors are monitored by an electronically mo-

nitored crankcase heater. "Compressor damage caused after longer periods of inactivity by the collected coolant in the oil sump is avoided this way." A comprehensive safety chain to protect the machines including filter dryer, inspection glass with humidity indicator, high and low pressure switches, frost protection safeguard and flow monitoring is another important performance feature of the gwk weco series. The machines are supplied ready to use with oil and coolant.

The small wecos

The performance of the existing weco 01 to 08 has now been combined in three performance sizes, and in addition supplemented by the weco 09A and weco 09W with a nominal capacity of 9 kW each. "The tank volume is rather large for the small capacities, so that the machines are equipped for a wide range of applications", as Markus Buch states. "The extended series is designed in a way that we are able to react more simply to special requests of our customers."

The case of the machines has been completely revised. Markus Buch says: "The design is a profile frame construction made from galvanized, finished steel sheet. The machines are accessible from all four sides and, as a standard, equipped with lockable controllable rollers, and are controlled by the gwk-compact regulator".