



G-Range by Geoclima is characterized by a simple structure, consisting of few moving parts, that leads to great reliability and to the reduction of vibrations and the related noise.



The **G-Range** includes all chillers with **screw compressors**, which are characterized by a **simple structure**: they are composed of few moving parts which enable a **continuous and fluid motion**. This leads to the decrease of the mechanical strains, **reducing this way the possibility of failure and wear**. The simplicity of the engineering ensures a sensible **reduction of the vibrations**, deriving from the mechanical motions, and of the related noise, with many benefits in terms of **comfort** and installation.

Thanks to the simple structure of the installed compressors, the **G-Range** units are characterized by **long-lasting life** and, therefore, by great reliability, as well as by a significant cut in maintenance costs.

G-Range supports R134a, HFO1234ze and R290 to allow our customers to choose between a high-efficiency solution or a more eco-friendly approach.

The line with **R134a** uses the most widely used refrigerant for more than fifteen years, after

the prohibition of R22. The proven international experience ensures a **deep knowledge** of the product qualities, as well as of its wide range of use (indeed, the R134a is used in both industrial and civil applications): this ensures a **high degree of reliability and efficiency**. After a comparison with other refrigerants, the **R134a turned out to be the best one considering efficiency and financial commitment, as well as installation and maintenance**.

On the other hand, the *greener* line uses refrigerants with a very low GWP (Global Warming Potential): **HFO-1234ze** with GWP<1 and **R290** with GWP=3. Although this kind of systems has experienced relatively recent applications, the Geoclima R&D department has already tested **different uses** for these refrigerants, with the development of some units for this line of chillers. The main advantages in the use of these refrigerants concern not only the low environmental impact, but also the wide range of possible applications. Especially R290, besides being **completely natural**, turns out to be **particularly suitable for both positive and negative temperature applications**. With this eco-friendly line, then, Geoclima is able to provide **innovative solutions**, aiming at efficiency and eco-sustainability as equally important purposes.

GHA

Air cooled



Up to
1800 kW



Up to
12910 mm

GHA ES

*Air cooled with
Evaporative System*



Up to
1900 kW



Up to
16220 mm

GHA FC

*Air cooled with
Free Cooling*



Up to
1700 kW



Up to
12910 mm

GSA

Condensing unit



Up to
1800 kW



Up to
12910 mm

GHH

Water cooled



Up to
1850 kW



Up to
5000 mm

GSE

*Condenserless
water chiller*



Up to
1900 kW



Up to
5000 mm

RCE

Remote condenser



Up to
1660 kW



Up to
10500 mm