



# **Screw Compressor Chillers**



**Turnbull & Scott™**  
Trusted.



## INTRODUCING GEOCLIMA CHILLERS

Whether you need to deliver comfortable and healthy environments for people, or temperature sensitive industrial processes, we provide exceptional custom designed and standardised chiller systems all underpinned by world-class engineering and technologies.

Whatever your cooling load, our intelligently controlled chiller systems can be configured and optimised according to your priorities whether they be precision temperature control, ultra-efficiency across load levels, low noise, low environmental impact, minimised footprint or a combination of all.

As a long established and trusted UK manufacturer of robust cooling coils and Dry Air Coolers, we partner with award winning Italian chiller system manufacturer Geoclima, to extend our commercial and industrial cooling system products right along the 'cooling systems continuum' from ambient to sub-ambient temperature levels.

Geoclima chillers have world-class compressor efficiency at their core delivered through a combination of rigorously developed technologies:

- Premium compressors with highly accurate load matching capacity control
- Generously dimensioned condensers
- Flooded evaporators or unsparingly selected plate & DX heat exchangers
- Highly precise fan speed and refrigerant expansion valve control
- 'Onboard Touch' web-based monitoring solution



## THE GEOCLIMA G RANGE: ULTRA-RELIABLE. DURABLE. HIGHLY EFFICIENT



67kW – 1900kW: Ultra-reliable air cooled & water cooled inverter driven screw compressor chillers. The G Range delivers precision chilled water temperature control at design temp. +/- 0.5oC.

The range has water cooled chillers & air cooled chillers including models with adiabatic & free cooling systems & a condenserless chiller option for use with remote condenser also.

Designed with few moving parts, vibrations & associated noise are minimised, wear & opportunities for failure are greatly reduced along with on-going maintenance costs. They are ideal for industrial cooling systems & specialist HVAC environments including data centres.



G Range chillers are Energy Class A rated under EU Ecodesign Energy-Related Products & Energy Information Regulations 2021 with excellent EERs.



There are two lines across all models running different classes of refrigerant to accommodate customer priorities in terms of efficiency & environmental sustainability:-



ENERGYMISER: optimised for energy efficiency using HFC refrigerant R134a.

GREENMISER: optimised for use with very low GWP (Global Warming Potential) refrigerants HFO-1234ze & R290.



All units supplied completely wired, connection ready & equipped with proprietary, panel mounted Geotouch™ touchscreen programming & monitoring system. With strong metal structures each unit is painted with epoxy powder & anti-rust coating as standard.

## SMART CHILLER TECHNOLOGIES



Remote monitoring, diagnostics & programming is available via the Onboard Touch™ web-based solution. From anywhere in the world the Geoclima engineering team, and approved trained on-site engineers, can analyse all chiller activity including voltage swings, that may affect performance, and fix problems to ensure optimal performance at all times.



For environments sensitive to noise, the smart Dynamic Noise Control (DNC) system constantly measures chiller noise & "adapts" performance within permissible ranges & programmable time-slots.



The G Range provides significant scope for customisation enabling precise configuration of each model optimising for specific applications, operating conditions & priorities.

Options include custom dimensions, galvanised frames with hersite coils, low speed fans & compressor sound insulation kits - Low noise (LN) or super low noise (LLN), low temp chilled water/glycol to -3°C, extreme climate operation adaptations (-40°C & +40°C), pump pressurisation units & expansion vessels, construction for explosive environments.



## G RANGE PRODUCTS



### **GHA: 68kW - 1800kW**

Air Cooled chillers- screw compressors - dry expansion evaporator - Energymiser & Greenmiser lines - EC axial fans



### **GHA ES: 75kW - 1900kW**

Air Cooled chillers- Adiabatic system - screw compressors - dry expansion evaporator - Energymiser & Greenmiser lines - EC axial fans



### **GHA FC: 68kW - 1700kW**

Air Cooled chillers - free cooling system - screw compressors - dry expansion evaporator - EC axial fans



### **GHH: 68kW - 1850kW**

Water Cooled chillers - screw compressors - dry expansion evaporator - R134a - HFO 1234ze - R290 refrigerants



### **GSE: 67kW - 1900kW**

Condenserless unit - indoor install - for use with remote condenser - screw compressors - dry expansion evaporators



### **GSA: 68kW - 1800kW**

Remote condenser - for use with GSE condenserless chiller - Air Cooled - screw compressors - EC axial fans



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