

# Reference List

# R717



**GEOCLIMA**  
Smart HVAC Solutions

# UNITS

Place	Model	Cooling Capacity	Description	N°
Denmark	GNH-B 280/717/SC	kW 515	Water cooled chiller for indoor installation	2
United Kingdom	GNH-B 215/717/PU	kW 89	Water cooled chiller for indoor installation	2
Netherlands	GNE-B 115/717/BT SC	kW 286	Condenserless water chiller	3
India - warehouse	GNA-B 2130/717/PU/SP	kW 480	Air cooled chiller for outdoor installation	1
Netherlands	VHA-B 150/717/TP	kW 76	Air cooled chiller for outdoor installation	1
Poland – coal mine	GNH J 2224 717	kW 1350	Water cooled chiller for indoor installation	1
Denmark	GNA B 430-717 LLN	kW 400	Air cooled chiller for outdoor installation	3
Poland – coal mine	GNH J 2224/717	kW 1350	Water cooled chiller for indoor installation	1

# SOME PICTURES



# CASE STUDIES

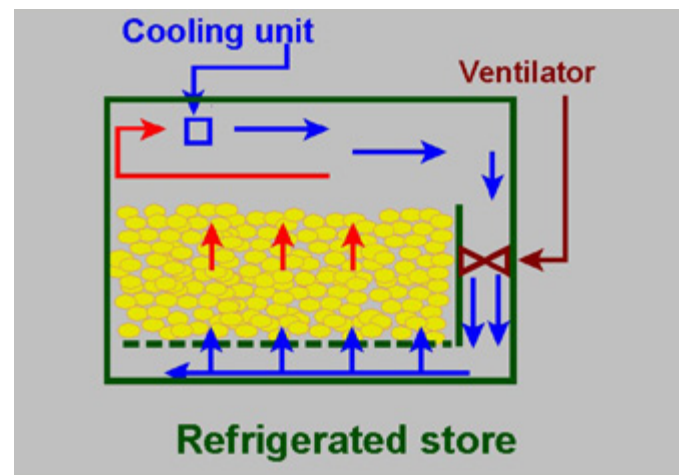


The client is one of the leading international warehouse manufacturer. In particular, he dealt with the development of one of the biggest warehouse for potatoes storage in the world, located in India.

The objective was the development of a highly efficient warehouse, taking into account the several problems concerning the storage and the conservation of potatoes. The first issue was about the high consumption of energy necessary for the operation of the plant. Another important issue concerned the necessity to remain within a very narrow temperature range. Moreover, the different uses of potatoes require different temperatures (from 4 °C to 10 °C) and this results in the necessity of a dual set point. Finally, there was the need to develop

of temperature caused by different outdoor and indoor conditions. There was also the need to consider that we were dealing with perishable and edible products and, therefore, it was required to keep within strict conservation rules.

Geoclima proposed one **480 kW GHA air cooled chiller with aluminium multi-channel batteries, EC fans, open screw compressors, R717 refrigerant (Ammonia), propylene glycol, “microsmart” microprocessor for unit control and regulation.**



Geoclima was also able to provide to the client an application with low noise levels and to adapt its dimension to the site of installation, ensuring not only very high efficiency but also consistent performance.



The JSW Group is a Polish leading company in the production of high quality coking coal in Europe and works in four pits, including the Borynia-Zofiówka-Jastrzębie coal mine.

The client's requirement is to operate deeper and deeper and, therefore, to solve problems concerning the related increase of temperature. The most suitable solution is to develop a cooling

system based on two circuits: an underground circuit and a surface system.

Geoclima has developed **two GNH water cooled chillers with screw compressors, with 1350 kW of cooling capacity each and with ammonia as refrigerant** for the surface cooling station. The system has been designed to chill 300 mc/h of water from 29 °C down to 1,5 °C.



# ABOUT US

We design and produce special units for applications in air conditioning, refrigeration and air handling systems, with low environmental impact and specifically designed to meet all specific clients' requirements in terms of size, capacity, performance and temperature. **Where the others stop, we go on.**

Our identity is founded on:



## **INNOVATION**

We use the highest technology available in order to maximize efficiency, reduce start-up costs and guarantee a satisfactory return on investment.



## **CUSTOMIZATION**

All types of machines can be provided and developed in non-standard version, thanks to the flexibility of our production system.



## **ECO-SUSTAINABILITY**

We aim to develop applications with the lowest environmental impact possible, using

Our facilities and sales offices around the world.



**Geoclima Srl**

Via dell'Industria, 12  
34077 Ronchi dei Legionari (GO)  
ITALY

T: +39 0481 774411

F: +39 0481 774455

E: [info@geoclima.com](mailto:info@geoclima.com)

**[www.geoclima.com](http://www.geoclima.com)**