

## CASE STUDY

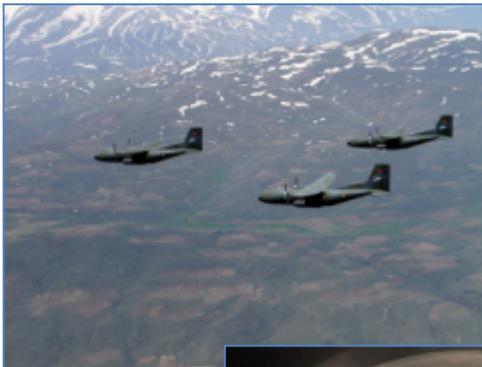
### The Turkish Air Forces Space Heating



#### Executive Summary

- Energy Savings of over 35%
- Return on Investment < 2 years
- Multiple installations of over 10 tonnes of Hydromx®
- Operational since installation with no additional maintenance
- Base Commander recognised his contribution to energy efficiency
- Freezing protection from lows of -37°C

The Erzurum Air Force Base is located near the largest city in the eponymous capital of Erzurum Province situated 1757 meters (5766 feet) above sea level. Erzurum, known as "The Rock" by NATO, served as NATO's south-eastern most air force post during the Cold War.



The area has a harsh climate, with long cold winters and short summers. According to long term meteorological statistics, since 1929 the mean yearly temperature of the city centre is 5.4 °C, with winter temperature record lows of -37 °C and an average of 114 days of snow per year.

The first  
Turkish  
Hangar at the  
tonnes  
[Detailed



application of Hydromx in the  
Armed Forces was in an Aircraft  
Erzurum Air Force base where 10  
(10,000 litres) was installed.  
information is not available due to  
confidentiality].

## The Turkish Air Forces – Space Heating



Efficiency savings of over 35% have been recorded and the system has been successfully protected from corrosion and frost, removing the need to run the heating to protect the system from freezing temperatures when the hangar is not in use. The system has now run since installation with consistent performance and no requirement to install any additional Hydromx.

Installation was completed in 1 day, and return on investment was delivered in under 2 years. Hydromx is now contributing significant savings year on year.

***"The Hydromx Energy Saving Solution was applied to our heating system and the system has operated normally since that time with no negative effects. The system has delivered energy savings of more than 35% and we have observed effective protection of the system with no additional maintenance". (December 6, 2010)***

Lieutenant Vedat Öz; Erzurum Military Air Base

The Erzurum Air Force Base Commander has been recognised with an internal award for this contribution to energy efficiency.

Following this successful installation a lengthy and bureaucratic process has been completed and Hydromx is now a recognised product within the Turkish Armed Forces approved inventory. As a result of this endorsement two further significant installations of 10 and 20 tonnes of Hydromx have taken place in other military bases, with others planned.



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