

TURBOnews

Polarmatic Newsletter October 2011

TURBOPower proves its worth

Proven in extreme conditions as well as...

Polarmatic's TURBOMATIC heating system has proven to be the most effective and cost-efficient heating system when producing concrete in cold weather conditions. The TURBOMATIC is the obvious choice in Northern Europe, Russia and Canada, but also in more moderate climates such as in Germany, Switzerland and the USA when efficiency and cost-effectiveness is required.

...in moderate climates

In the autumn of 2010 Polarmatic replaced a traditional warm air-based aggregate heating system for Ölen Betong in Norway after only one month of operation. And this was in October, before the real winter in Norway had even started. The Norwegian customer could simply not produce the desired amount of concrete when the ambient temperature was not colder than 0-5°C. The combination of lost (concrete) production and an extremely high oil consumption made the decision to demolish the one month old system and replace it with a TURBOMATIC very easy.

The TURBOMATIC heating system has also proven its worth in warmer or more moderate climates with recent deliveries to countries such as Germany, Austria, Poland, England, Holland and Bulgaria just to name a few. The inherent benefits of the TURBOMATIC justify the investment always when heating is needed - also in moderate climates.

In January 2009 in Sofia in Bulgaria the job sites had to be kept in operation despite the cold weather conditions. Only OOO Hidrobeton's batching plant in Sofia was at the time equipped with Polarmatic's innovative and efficient TURBOMATIC heating system. The TURBOMATIC secured the concrete production when all others failed.

One of Polarmatic's recent successes comes from Switzerland. After a winter of not being able to produce concrete more than about 10% of the planned amount, the Swiss concrete producer ARGE decided to replace the air-based heating system with a TURBOMATIC heating system handling all the batching plants heating needs and securing the required winter (concrete) production capacity for the storage-type hydropower plant under construction in Linthal, Switzerland.

...and when quality concrete is required

The TURBOMATIC is also essential when the need is to produce high quality concrete at the desired quantity, with the correct water-to-cement ratio and temperature under winter conditions (please refer to Italian-based Beton Lana's experience (www.beheizterbeton.com)).

Another good example is the use of the TURBOMATIC in the production of high quality concrete used in demanding applications such as wind turbine towers and tunnel segments.



NEW PRODUCTS for ADDED BENEFITS – TURBOMATIC™ warm water unit

The innovative **TURBOMATIC™ warm water unit** is designed for fast, reliable and efficient generation of warm water utilised for process and heating purposes in batching plants and in precast, pipe, paver and block plants. The TURBOMATIC warm water unit is capable of handling a wide range of heating needs, including generation of warm dosing water, heating of plant facilities as well as generation of warm truck mixer and other general purpose wash water. The TURBOMATIC warm water unit is available in a capacity range from 500 – 2000 kW as well as both for fuel oil and natural gas (or propane). The unit comes either mounted in a TURBOcontainer or on a steel frame.



The TURBOMATIC warm water unit complements Polarmatic's heating system offering which already includes the TURBOMATIC thermal energy unit capable of handling all batching plant needs as well as the TURBOMATIC hot gas generator capable of aggregate heating (only).

CONTINUED CANADIAN SUCCESS

Hebron is a heavy oil field estimated to have 400 - 700 million barrels of recoverable resources. The field was first discovered in 1981, and is located offshore Newfoundland and Labrador in the Jeanne d'Arc Basin 350 kilometres southeast of St. John's, the capital of Newfoundland and Labrador. The water depth at Hebron is approximately 92 metres.

Polarmatic Oy has received the order to deliver two (2) TURBOMATIC heating systems, scheduled for start-up during the spring of 2012, to Canadian batch plant manufacturer BMH-Systems. The TURBOMATIC heating systems, designed for a capacity of 3 MW each, will take care of thawing (the ice in) the aggregates, heating the aggregates and of the generation of warm dosing water. The chilled water system will also be connected to the TURBOMATIC providing a innovative and efficient manner of handling also cooling required in the concrete production during the summer months.

With this recent order the total amount of TURBOMATIC heating systems in North America will thus reach seven. The first ever TURBOMATIC in North America was commissioned in the spring of 2010 in Ontario.



OPTIMUM SOLUTION for PRECASTERS

The TURBOMATIC thermal energy unit is capable of handling all heating needs on pipe, paver, block and precast concrete factories. Recent orders to PNK-Romex in Russia, Stubbes Precast in Canada, Voss Elementvarufabrik in Norway and WEC Turmbau in Germany prove the non-disputable value of the TURBOMATIC for precast concrete producers.



FULL MOBILITY PROVIDES FLEXIBILITY

The container mounted TURBOMATIC provides the full flexibility to easily move the heating unit to a new location. Swedish Swerock moved the TURBOMATIC from Uppsala in central Sweden about 1000 kilometres to Pajala, located north of the arctic circle. Ferdigbeton in Norway selected the TURBOMATIC not only for its efficiency and cost-effectiveness but also to be able to relocate the unit after the harbor project in Narvik, Norway is completed.