

## **Wirsbo Surface Heating System** MELTAWAY



# Meltaway means more than just snow melting

**After 10 years of extensive research and development, Wirsbo introduced its first Meltaway snow melting system in Västerås, Sweden in 1969. Since then 15 million metres (49.2 million ft) of Meltaway pipes have been installed in approximately 3.75 million m<sup>2</sup> (40.4 million ft<sup>2</sup>) of heated surfaces throughout the world.**

**Meltaway surface heating is represented in all Scandinavian countries, Belgium, Canada, Great Britain, Germany, Holland and Switzerland. It has been utilised on a grand scale in the surface snow melting of city streets, sidewalks, parking lots and sports competition facilities.**

## **Meltaway is versatile**

Meltaway pipes have been laid in a wide variety of construction materials and applied through many different installation techniques. This brochure will acquaint you with some of those applications and how Meltaway can meet your surface conditioning needs.

A study conducted by the Swedish Road and Traffic Research Institute revealed that very few accidents due to skidding occur on surface heated areas. Additionally, the cumbersome manual removal of snowfall is eliminated and snowpiles will not interfere with decorations, furnishings and normal commercial activity.

With Meltaway installed on the upper level of parking ramps, the removal and disposal of snow was eliminated.

Traffic safety is enhanced with Meltaway surface heating. For example at road intersections with a heavy angle of inclination, snow and ice is virtually eliminated with Meltaway, so the vehicles can stop and manoeuvre safely.

## **Large capacity in high ceiling structures**

Commercial and industrial space heating of aircraft hangars have been operating successfully with Meltaway since 1973 (hangars built since then at airports such as Stockholm International Airport, Gardermoen Airport and Kallax Airport have the system installed). Such applications in bus terminals and maintenance facilities provide comfortable, dry and safe condi-

tions for employees and travellers.

Meltaway heating provides superior comfort levels with less installation costs than alternative heating distribution methods.

## **Meltaway keeps the athletes playing all year round**

Meltaway is used for surface heating in sports facilities, such as dog tracks, football pitches and racecourses. In Belgium, Great Britain, Germany, Holland, Italy, Russia, Sweden, Norway and the United States, the Meltaway system has ensured that events can continue in any type of cold weather conditions.

Meltaway systems are also used for surface heating in indoor sports facilities of all types.

## **Design principles**

The basic design for a Meltaway system requires individual loops with equal lengths connected to a single manifold. This design principle eliminates the need for balancing valves, and results in an effective distribution of heat energy.

More complex systems are designed with several manifolds which are balanced against each other, where loop lengths may vary among the manifolds.

Additional design versatility is achieved by varying the distance on centres and depth of pipe in the installation. Meltaway can be installed in most soils and surface construction materials.

## **Technical design assistance programme**

Wirsbo's technical support will, upon request, assist in all phases of the project. This technical assistance is available in the development of the design layout specification, engineering, compilation of material lists, fixed price quotation, product delivery, installation supervision and system start up.





- ① Gardermoen Airport, Oslo; Norway
- ② Uppsala Centre; Sweden
- ③ Uppsala University Hospital; Sweden





- ① Football pitch of KRC Genks; Belgium
- ② Newcastle Utd FC; England
- ③ Football pitch in winter landscape; Sweden

