

Desicool transforms waste heating to cool Rosenbad

The Swedish National Property Board economically administer state-owned buildings, amongst them is Rosenbad. Since the internal heat load has been increasing, with the increased use of computers, the local cooling apparatus reached its capacity limit. One alternative for cooling was to use waste heat in order to cool the premises using Munters DesiCool technique. By installing DesiCool, energy costs are reduced by 35% compared to conventional air conditioning. The Swedish National Property Board's administer 1.6 million m² of building premises. The value of the properties amounts to over 1.18 billion Euro. Their task is to economically administer state-owned buildings so that national cultural heritage remains available to the public and cultural assets are safeguarded and maintained. Many buildings administered are living contributions to Swedish society such as theatres, museums, palaces and official residences. One of the Swedish National Property Board's greatest premises is the Government Chancellery, Rosenbad.

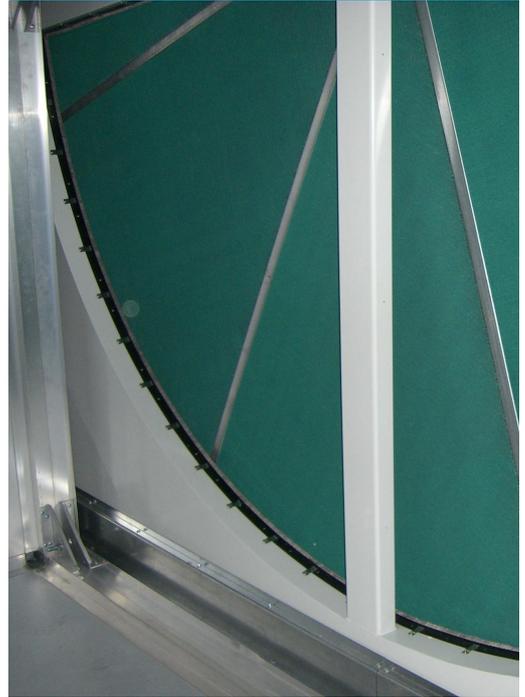
Alternative to refrigerant cooling

The Swedish National Property Board has its own local cooling equipment for Rosenbad. Since the internal heat load has been increasing for quite some time with the increased use of computers, the local cooling equipment reached its capacity limit. One alternative to refrigerant cooling was to make use of waste heat in order to cool the premises using Munters DesiCool technique.

DesiCool cools in three steps. Firstly through drying the outside air with waste heat. The dry air is then cooled indirectly through evaporation which creates a dry, cool condition. The air is finally cooled in a direct evaporative cooler to the condition desired. The more waste heat that is applied, the cooler the air becomes. During Winter, DesiCool has two heat exchangers in series. When both of the rotors are spinning at maximum, DesiCool has a temperature efficiency of 90% and a humidity return of 75%. Thanks to the high degree of efficiency, DesiCool largely takes away the need for heating in wintertime. For the Swedish National Property Board, this means the need for heating which normally occurs during the long winter is shifted to the short summer. By installing a Munters DesiCool system, energy costs are reduced by 35% compared to a conventional airconditioning unit. As a bonus, the environmental profile for the Swedish National Property Board is reinforced.



Reliable, economic and pollution free



Benefits

- Better economy
- Heat recovery
- Tighter temperature control
- Avoid CFC's + HCFC's
- Fast payback
- No mixing air, 100% fresher
- Easy maintenance
- Evaporative cooler with hygienic certification VDI 6022
- 60% less CO₂ compared with a traditional cooling coil

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