



Large-scale construction heating in BayWa headquarters



Solution:
Building heating



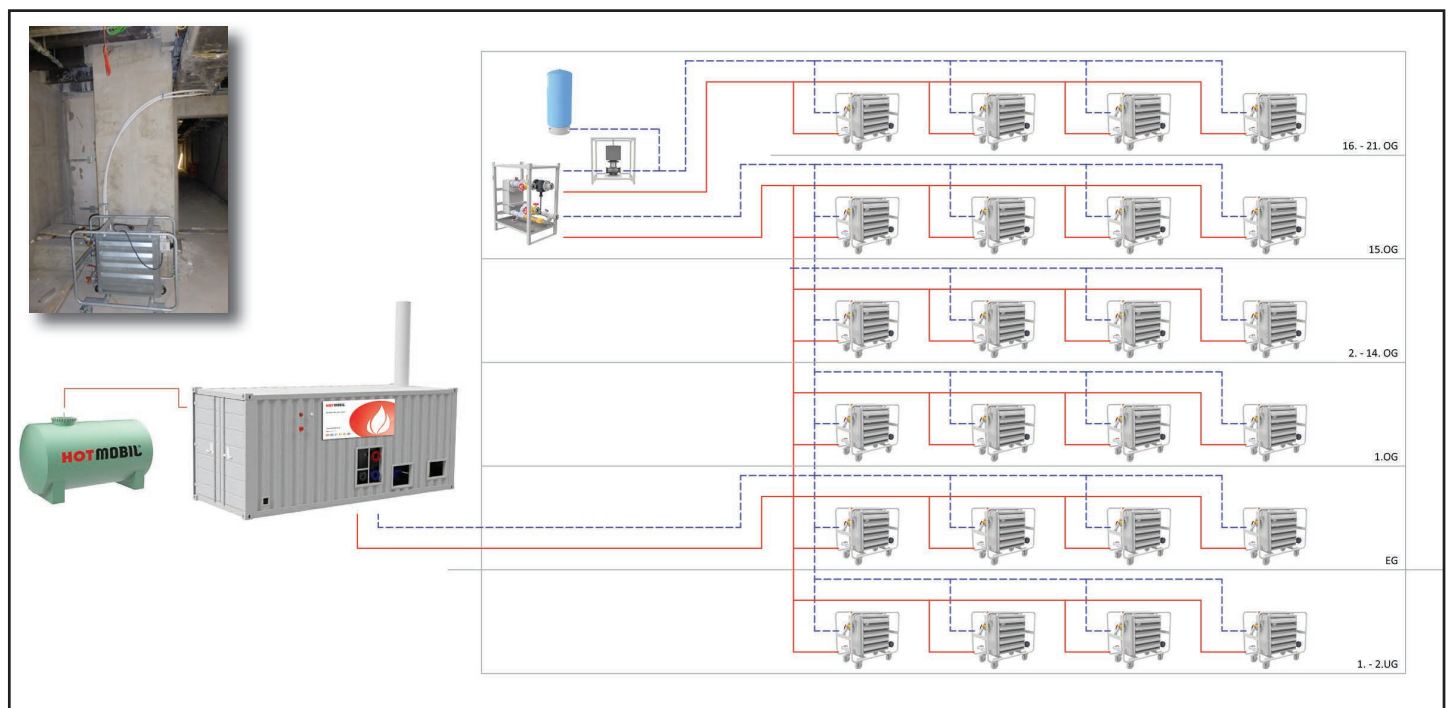
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The service provider Hotmobil supported the general renovation and expansion of BayWa Headquarters at Arabellapark in Munich with a large array of mobile heating technology.

In order to ensure that the comprehensive construction measures could be completed on schedule, it also was necessary to continue working on the gutted main building over the cold winter months. Once the temperatures had dropped below zero, winter construction heating became inevitable. Waldemar Cibis, Plant Construction Team Leader at Rudolf Otto Meyer Technik Ltd. & Co. KG (ROM technology) in Munich was responsible for taking care of this task, among other things. A complete solution was found in cooperation with the Hotmobil consultants. It comprises a heating container with an output of 2.5 megawatts placed adjacent to the building. The oil supply is provided by a heating oil tank which is connected to the container and also was supplied from the Hotmobil rental park. Four water fed mobile fan heaters supplying an output of 20 kW each for pleasant working and efficient drying temperatures were placed on each floor. A total of 92 mobile ventilation units professionally connected by the experts of the ROM technology team via eight kilometers of connecting pipes were used. The two main lines from the heating container to the high-rise building and the vertical black steel ascending

pipes with a dimension of DN 125 also were installed by the ROM technicians. Due to its static height, the 71 meter high BayWa Company Headquarters building has a system pressure of 7.1 bar. The boiler in the mobile heating container reaches its limits at a maximum system pressure of 6 bar. It therefore was necessary to install a system separation in the th storey comprising a plate heat exchanger, a pump and an expansion tank. A malfunction alarm which immediately reports any error messages to the responsible service engineer's cell phone, thus enabling a fast response, ensures fault-free operation of the mobile heating concept. Another strong argument in favor of this water fed heating concept for winter construction heating is the energy and cost savings of more than 50 percent that it also yields in comparison to conventional direct-fired air heaters.

In February, team leader Waldemar Cibis summed it all up by saying: „I feel like I have been well advised by Hotmobil and am very satisfied with their cooperation with us and with the performance of the mobile heating concept“, which remained in use until mid April and also contributed to meeting the construction schedule.



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