



**SURFACE  
PREPARATION  
& COATING**

# Water Storage Tank



**APPLICATION**



**Property Damage  
Restoration**



**Temporary  
Humidity Control**



**Property Damage  
Prevention**

## Overview

The water storage tank is a key component of a municipality's water distribution system. The need to maintain these tanks and meet superior standards is critical to ensuring that the water source that they provide is of the highest quality. Typical maintenance routines often require that these tanks are inspected annually and re-lined when current coatings systems are failing.

Re-lining these tanks with today's advanced coatings often require environmental conditions that are perfect for application due to their moisture sensitive nature. High humidity, inclement weather or temperature can all directly impact a coatings system and its overall life cycle. Additionally, the loss of time, materials and man hours can all impact upon the cost of a water tank project. Munters can provide temporary climate control systems that can assist the contractor in re-lining a water tank even in the harshest conditions.

Temporary climate control equipment to assist in the recoating of tank coating projects is quickly becoming the norm in the industry. Whether the specification asks for specific humidity levels or temperatures, Munters has the technical ability and equipment to provide a detailed solution to ensure success.

One way to tackle these demands is to ask for solutions that require experience, equipment innovation, engineering expertise and of course the people to ensure success every time. The use of Munters temporary desiccant dehumidifiers, heaters and air conditioners will provide the optimum environment to sand blast and re-coat the interior of any water storage tank or vessel. The contractor can complete their project without the threat of flash rusting, material blushing or weather related interruptions.

At Munters, we can control the relative humidity and temperature at any time of the year. This allows the owners to plan maintenance around production schedules, without restrictions.



The Sorption dehumidifier; specially designed for high performance under tough conditions, and available around the world.



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## PROCEDURE

In order to ensure that the equipment is tailored specifically to each tank, the following detailed information is necessary:

- Size of the tank
- Ventilation rate
- External weather data
- Product specifications
- Tank openings
- Site logistics

Only when this information is compiled and analysed can the suitable equipment be selected. Munters personnel can then engineer the equipment for specific applications to meet the desired specifications for the project.

Munters technicians' service and check the equipment, ducting and ancillary items prior to delivery. After delivery to the site, the equipment is then placed in a designated area, positioned close to a power supply and set up to maximise the safe operation of the unit.

Munters state-of-the-art desiccant dehumidification systems are utilised to deep dry the ambient air which ensures that the moisture level in the tank is low enough so as to reduce corrosion growth. Temporary cooling and heating equipment is provided to control temperature conditions within the storage tank which can directly affect the curing of a specific coating type. Munters provides a turnkey solution with well engineered equipment offering around the clock service that is unmatched in the industry.



Munters provides the experience, equipment and expertise to ensure the best possible result.



## RESULTS

Munters experienced and highly trained staff can consult customers on the best solutions for their tank projects. By utilising Munters' state-of-the-art climate control equipment, conditions are closely controlled to maintain surface dew point and temperature throughout the re-coat process. This technology ensures that the contractor receives only the equipment required to meet the project specifications while maximising efficiency and guaranteeing the highest possible results.



Flexible ducting is utilised to efficiently distribute the dried air within the tank.

## BENEFITS

Benefits of utilising climate control for tank coating applications:

- Eliminates the blast and coat cycle
- Reduces weather related work delays
- Improves production rates and quality of work
- Extends coating life by providing optimal conditions during application
- Allows a monolithic spray of each coat under proper climatic conditions
- Eliminates the traditional blast, clean and prime cycle
- Provides ideal humidity and temperature conditions for 'holding the blast'
- Reduce fuel costs due to Munters highly efficient dehumidifiers requiring lower power costs in comparison with using only heaters.