



# THERMA-KLEEN

## TECH SHEET

### Bakery



To be viable a Bakery must be both pleasing in appearance and sanitary to prevent customer illness due to infectious organisms within the product. As we all know, the kitchen areas are constantly exposed to the mess created by the baking process.

With Therma-Kleen® Dry Vapor Steam Systems, users can both clean and sanitize their plant and equipment with the same machine at the same time. Nothing works better than steam when it comes to dissolving the toughest stains and dried food. Nothing known to man is better at killing pathogens than heat.

Bakeries have a need to clean a multitude of areas such as baking ovens, tunnel ovens, baking racks/pans/sheets, conveyors, dough sheeters/rollers, mixers, bread slicers, vents, floors, walls, etc.

Traditionally bakeries were cleaned by utilizing excess amounts of hot water and cleaning agents which contain toxic chemicals & allergens. This outdated process can be an ecological disaster, and not provide the necessary sanitizing required for a safe environment.

The best, most efficient & eco-friendly way to clean and sanitize bakery equipment & apparatus, vents, walls, floors etc., is with a Therma-Kleen® Dry Vapor Steam System. In some cases, this may be the only method to do an effective job. The Industrial & Commercial systems provided by Therma-Kleen® are designed to handle these tasks. Being portable, they are easily moved to where they are needed.



ADVANTAGES of using Therma-Kleen® Dry Vapor Systems:

- HIGH HEAT:
  - Super-Heated Steam can effectively cut through most flour, oil & grease build-up
  - It's the Dry Vapor Heat which breaks the bond that holds dirt to the surface
  - The vapor penetrates the smallest of cracks & crevices, forcing the debris to the surface, where it is easily wiped away.
  - Temperatures are well above the threshold for killing infectious organisms, listeria, e-coli, salmonella and other harmful pathogenic bacteria as well as mold, mildew, fleas, ticks & their larva
- NO CHEMICALS:
  - Super-Heated steam is the cleaning mechanism
  - No need to purchase costly chemical cleaning agents
  - No Toxic Chemical Fumes
  - No Chemical residue to become a health concern in the future
  - No Allergic reactions caused by ingredients within cleaning agents

- Improves Employee Morale – Employees do not have to worry about the effects of chemical agents on their current or future health
- No Residue left behind for dirt to cling to
- A True GREEN process
- **LOW WATER USAGE:**
  - Water consumption is measured in portions of gallons per hour
  - Pressure washing uses a large amount of water
    - Dry Steam cleaning is an eco-friendly option because it uses far less water
    - Low moisture allows it to be used around electrical equipment
    - Can even be used to clean PCB boards with the proper protocol



- **LESS MESS TO CLEAN UP:**
  - With less moisture comes less waste to deal with
  - When you clean with chemical cleaning agents or pressure washers, you end up with a big mess and you risk contaminating items with hazardous waste or damaging parts with debris and chemicals

- **LESS ENVIRONMENTAL CONTAMINATION:**
  - Because Dry Vapor uses so little water there is very little waste to worry about
  - With the large amounts of water used in pressure washing, and toxic agents contained within cleaning agents, hazardous runoff becomes a problem
  - Hazardous run-off containment is greatly reduced
  - Hazardous disposal cost is also reduced



- **LESS CROSS CONTAMINATION:**
  - The way Dry Vapor is released from Therma-Kleen® systems means there is very little splattering of debris
  - Pressure washing tends to splatter debris around, causing it to end up in places where it is not wanted
  - Don't have to move the item being cleaned to a secure area or cordon off the area around the item being cleaned
- **CAN BE USED AROUND ELECTRICAL EQUIPMENT:**
  - The Dry Vapor process used by Therma-Kleen® has a very low moisture content, therefore it is friendly around electrical controls, motors, sensors, etc.
  - Pressure washing uses large amount of water, which can destroy electrical apparatus
  - Chemical cleaning agents can have a corrosive effect on sensitive items

Therma-Kleen® machines are constructed from heavy gauge Stainless-Steel, and all fittings are of Brass or Stainless-Steel for a long and productive life.

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