

THERMA-KLEEN®

INDUSTRIAL DRY VAPOR CLEANERS

Advantages of Dry Vapor for Industrial Equipment

Industrial equipment is no small investment. Companies invest many thousands, if not millions of dollars in industrial equipment for their manufacturing needs.

There are two basic types of cleaning protocols. The first being oily grease and grime that comes from the moving apparatus within the machine. The other being the build-up of the product being manufactured. The cleaning method is basically the same for both.

No matter the type of processing equipment being used, it will likely use oil/grease, therefore experience oil/grease build-up over time – it's inevitable. That grease build-up can lead to contamination of whatever it being produced. Additionally, grease build-up attracts abrasive dirt & debris which can find its way into any number of moving parts, leading to equipment breakdown which is expensive and can also lead to manufacturing downtime.

The best, most efficient, efficient & eco-friendly way to clean industrial apparatus, equipment & tools is with Therma-Kleen® Dry Vapor Steam, and in some cases, this may even be the only method. The Industrial & Commercial systems provided by Therma-Kleen® are designed to handle these tasks.

ADVANTAGES of Therma-Kleen® Dry Vapor Systems:

- **HIGH HEAT:**
 - Super-Heated Steam can effectively cut through most oil & grease.
 - 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, mold, mildew, fleas, ticks & their larva.
- **NO CHEMICALS:**
 - Super-Heated steam is the cleaning agent
 - No need to purchase costly chemical cleaning agents
 - No Toxic Chemical Fumes
 - Chemical cleaners have been linked to many health concerns including asthma and some forms of cancer.
 - No Chemical residue to become a concern in the future
 - No Allergic reactions caused by ingredients within cleaning agents.
 - Improves Employee Moral – Employees do not have to worry about the effects of chemical agents on their current or future health.
 - No Residue 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 a much more 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 the risk of 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 reduced.
 - Hazardous disposal cost is 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.
 - Pressure washing uses large amount of water, which can destroy electrical apparatus.

TOOLS – Blast Nozzle, Detail Brushes (Nylon, Brass, Stainless-Steel).

STEAM SETTING – Low/Medium/High, depending on the application.

Because of the diverse nature of the items being cleaned, there is no hard and fast rule as to which tool is best to use. This is something which the operators experienced with what is being cleaned will determine. The only hint is that the detail brushes are better when you want to contain the heat in a certain area, for more intense application and to help break up debris.

Dry Vapor process will not pick-up the debris, so as an area is cleaned, the debris must be wiped up.

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