

Worldwide Leader In Advanced Cleaning Systems



## **Daimer's All-About Guide to Floor/Hard Surface Cleaners**

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## Overview of Hard Surface Cleaners

### The Need

For cleaning a variety of surfaces, such as concrete, porous or non-porous tile, nothing beats a hard surface cleaning machine. Daimer® XTreme Power® HSC hard surface cleaners clean up to 30 times faster than conventional methods. The equipment can include several components: a cleaning head, an extraction unit, and a pressure and heating unit.

### The Products

Daimer® offers more than 20 hard surface cleaners including: the self-contained HSC 13000 and 14000 models and the HSC heated units -- models 14250 and higher -- that include pressure washer and sludge extraction features. The XTreme Power® line also includes the super-compact XPH models that can clean both floors and carpets.

The HSC machines include patented motorized cleaning heads that maximize productivity and offer unique benefits, including:

- **No Mess**
  - Simultaneous cleaning and extraction recovers spent water as it cleans. This capability reduces water overflow and minimizes clean-up time.
- **Environmentally Friendly**
  - By recovering spent water immediately, this "green system" doesn't expel waste or violate environmental regulations.
- **Maximum Power**
  - Since the head contains its own motor, it maintains full pressure throughout the cleaning process. Competing machines with non-motorized heads, lose pressure and cleaning power.

The motorized spinning heads are available in different sizes for different jobs. The large 19-inch motorized can clean up to 1000 square feet per hour, spins at 1000 rpm and, when used with HSC 13000 and 14000 systems, sprays water at pressure levels of up to 1500 psi -- these are the most powerful self-contained systems in the industry.

When used with HSC heated units, such as the HSC 17880, the 19-inch spinning heads support up to 3000 psi. (The higher pressure levels are generated by the pressure washers bundled with the HSC heated units.)

Other heads include a motorized 9-inch head for smaller indoor environments and a 6-inch head for countertops and other applications.

Daimer® also offers specialized hard surface cleaners for cleaning professionals with unique needs. The HSC 13000A and 14000A are housed in special low-noise enclosures for use in healthcare, hospitality and other environments where sound may be a concern.

The XPH line of hard surface cleaners are extra compact and accept either a squeegee head for tight spaces or a wand for carpets. The machines are ideal for routine maintenance.

The 11500SE and 1100WDR machines are designed for removing water, sludge and debris from storms or accidents where damage restoration equipment is needed.

## Basic Technology

For large indoor facilities with multiple surfaces and environments that require an all-electric machine, consider a self-contained floor and hard surface cleaners. This equipment uses a pressure and extraction unit that -- when paired with the right head -- can clean carpets, upholstery, porous tile and flooring, non-porous tile, concrete floors, grout and most other surfaces. The machines can generate pressure levels of up to 1500 psi and are designed to minimize water use, overflow and drying times.

The machines can accept hot water of up to 210°F and have a dumping capacity of five gallons per minute. Available heads: dedicated hard floor spinning heads, carpet wands, upholstery wands, pressure washer wands, squeegee wands. *You can view these machines at <http://www.daimer.com/floor-hard-surfaces/>.*

Large outdoor jobs involving heavy grease and extraction require more heat, more pressure and more suction. In these situations, consider a heated hard surface/spinning cleaning machine. These systems are similar to the self-contained floor and hard surface cleaners except they add a more powerful extractor and a steam pressure washer. The machines are ideal for removing oil and grime from concrete, walkways, parking lots, driveways, and sidewalks. For tough jobs, pre-spraying with cleaning chemical may be required. *You can view these machines at <http://www.daimer.com/heated-rotary-hard-surface-cleaners/>.*

The systems can also be used indoors to clean large indoor facilities that allow the use of propane or natural gas as a heating source. The products won't work on carpets or upholstery. The equipment offers steam temperatures up to 330°F, pressure levels of up to 3000 psi and auto-dumping capacity of up to 30 gallons per minute. Available heads: dedicated hard floor spinning heads, pressure washer wands and squeegee wands.

Configurations powered or heated with fuels can be used to clean indoor facilities. The trick is to truck mount the machines, run them outdoors, and use long water hoses of 200 feet or longer. The hose connects to a tool/wand, which is used indoors to clean; the vacuum connects to the tool and extracts the dirty water. When a water hose is connected to the extractor the extracted water can be automatically dumped down a sewer drain or waste water collection tank as the system cleans.

For smaller porous tile, routine maintenance and carpet cleaning jobs, consider a porous tile floor cleaner. These machines heat with electricity and combine an extractor unit with a squeegee wand. The machines are ideal for granite, limestone, marble, travertine, unglazed ceramic tile, and porous surfaces with minimal grout. The systems can accept a 10-inch carpet cleaning wand or an upholstery wand. Porous tile floor cleaners provide temperatures of up to 150°F and pressure levels of up to 150 psi. The machines are not designed for cleaning dirty grout. Available heads: squeegee wands (included), carpet wands, upholstery wands. *View these machines at <http://www.daimer.com/porous-tile-cleaners/>.*

## For More Information

Questions and requests for additional information about Daimer® hard surface cleaners can be directed to Matthew Baratta by calling (888) 507-2220.

## Expert Buying Advice

Here are the key features to consider when buying a hard surface cleaner:

### Hard-Surface Spinning Heads:

For optimal cleaning power, choose a powered or turbo spinning head, as opposed to non-motorized spinner. The motorized spinners allow the water to flow at maximum, yet safe, pressure level and penetrate the pores of porous surfaces for deeper cleaning; this creates maximum productivity, less mess, requires less water, and minimizes cleaning time.

Spinning heads come in different sizes and the proper size can be ordered depending on the size of the job. Daimer offers a large 19-inch motorized head for big jobs; it is capable of cleaning up to 1000 square feet per hour, spins at 1000 rpm, and sprays water up to 1500 psi when used with the 13000/13000A/14000/14000A. The spinners support up to 3000 psi for use with heated high pressure washer machines found in XTreme Power® models 14250 and higher.

The spinner head features a rubber guard that helps prevent over-spraying and leakage. The attachment even works on uneven surfaces.

The smaller 9-inch motorized head spins at the same speed and generates the same pressure levels as the larger model. It is ideal for smaller spaces and the head can be removed from its wand and substituted with various squeegee wands for cleaning walls, floors, and most other hard surfaces. A 6-inch head is also available for jobs like cleaning countertops.

### Squeegee Wands:

Squeegee wands save time on smaller jobs or tight spaces. Daimer's wands include a grip handle and jets to clean while extracting in tight areas and corners with 1500 psi force when using Daimer's 13000 and 14000 series machines. The squeegee, similar to the spinner heads, also support pressure levels up to 3000 psi when used with heated configurations.

Squeegees are ideal for cleaning many surfaces such as VCT flooring, toilet areas, under tables in restaurants, or around service-station islands. The wands come in two sizes: 12-inch, 4-jet squeegees or 18-inch 6-jet models. Both sizes include angled jets to create a contiguous spray pattern that covers the width of squeegee.

### Extractors:

Daimer's heated hard surface floor cleaners feature heavy-duty sludge extractors capable of handling storm debris up to a ½-inch in diameter at a rate of 30 gallons per minute. This machine is also available separately as the XTreme Power® 11500SE. Other self-contained systems include an extractor within the same housing that operates at a rate of five gallons per minute.

### Pressure Levels and Heating Units:

For cleaning extremely dirty or greasy surfaces, consider a hard surface cleaning machine that includes the power of a steam pressure washer. These pressure washers can be powered by gasoline, propane, diesel, or electricity. They can be heated by no. 1 or no. 2 heating oil, diesel, kerosene, natural gas, or propane. If you need to use the unit indoors, select a unit powered by electricity. Electric machines are ideal, as they are quieter and produce no exhaust. Units powered by fuels like gasoline offer greater mobility but do produce exhaust, making them ideal for exterior applications. With the use of long hoses of 200-feet or more, any machine can be trailer-mounted and used to clean outdoors. However, electric units are limited by the need for an electrical supply.

## **Five Questions to Ask Before Buying a Floor/Hard Surface Cleaner**

### *1) What surfaces will I be cleaning?*

If you need to clean multiple indoor or outdoor surfaces, consider a hard surface cleaner. The machines combine the pressure and suction of an extractor with self-powered, rotary cleaning heads of different sizes. Some machines clean with hot water or wet steam and come bundled with a pressure washer.

Indoors, self-contained floor and hard surface cleaners are ideal for cleaning porous and non-porous floors, walls, tile and grout, marble, stone, rubber flooring, and uneven surfaces. This equipment can also remove and strip wax buildup on VCT and vinyl flooring. For cleaning carpet, these machines allow you to substitute the cleaning head with a carpet wand.

For additional cleaning power on hard surfaces and outdoor environments, such as concrete, brick or stone, opt for a heated hard surface/spinning cleaning machine. These machines include a tri-mode pressure washer that cleans with cold water, hot water, or steam and offer more extraction power than a self-contained floor and hard surface cleaner. The equipment includes auto fill and auto dump capabilities, which manage the inflow and outflow of water for maximum productivity. (A water line brings water into the unit and a separate hose dumps the water into a drain or other receptacle.) Units with powerful, multi-motor, multi-stage vacuums can also work independently for water damage control systems or sludge extractors.

For residential and small cleaning jobs focused on lighter cleaning of porous floors, balcony concrete, breezeways, and other hard surfaces, consider porous tile floor cleaners. These machines can also function as hard surface cleaners, but are inappropriate for grout cleaning because their pressure levels of 150 psi can't lift dirt from grout pores. For cleaning grout, you may want to purchase this system in conjunction with a smaller KleenJet® steam cleaner. Another option for cleaning grout: heated hard/spinning cleaning machines mentioned above with pressure levels between 1000 psi and 1500 psi -- higher pressure levels can damage grout.

### *2) Do I need to remove difficult substances, like grease or chewing gum, from concrete and other hard surfaces?*

If so, consider either non-heated or heated hard surface configurations. For tough jobs, pre-spray the surface with, say, a non-toxic, heavy-duty degreaser or graffiti remover. Keep in mind the heated models include a high-temperature steam pressure washer that can be used independently from the spinning and other wands, and generate steam temperatures up to 330°F. Steam pressure washers remove chewing gum from concrete, graffiti from wall surfaces and grease from dumpsters, industrial equipment, or other surfaces.

### *3) Which cleaning heads should I buy?*

Daimer offers multiple wands beyond those bundled with each machine. Typically, each heated unit in the 17000 HSC series includes a 19-inch motorized spinning head as well as squeegee wet extraction wand for the extractor if it is to be used for simply extraction. Heated units in the 16000 HSC series swap the 19-inch head for a 9-inch motorized spinning head for cleaning smaller spaces.

For large open spaces both indoors and outdoors, use the 19-inch motorized spinning head. Remember that long water hoses up to and beyond 200 feet are available for users who trailer-mount their systems and want to clean hard surfaces indoors. For smaller spaces and areas inappropriate for the 19-inch spinner, you'll want a 9-inch motorized spinning head or 6-inch head.

For those who need to clean behind and around toilets in restrooms, corners, along sides of walls, a squeegee wand/head is a better choice. Consider a 12-inch, 4-jet model for indoor cleaning or an 18-inch, 6-jet head for outdoor applications, such as along gas station islands, walls, and more. Both squeegees have angled jets to create a contiguous spray pattern that covers the width of squeegee.

Finally, if your machine supports carpet cleaning, as with Daimer's dual-function carpet/hard surface cleaning machines, consider a standard carpet wand for big jobs or a smaller wand for stairs and upholstery, in addition to the 12-inch squeegee. Carpet cleaning requires pre-spraying the carpet with a cleaning solution, such as Eco-Green® Carpet Care.

### *4) Do I need sludge extraction?*

If you occasionally need to pump water from basement floods, the heated hard surface/spinning cleaning machines includes a dual, three stage industrial sludge extractor. For those who need only heavy duty cleanup of water damage, then consider a dedicated system like the XTreme Power® 11000WDR or the 11000SE.

### *5) Will I be working in environments where machine-noise is an issue?*

If you'll be cleaning hospitals, at night, or in other situations where noise is an issue, consider a model with a special noise-reducing case. Daimer's XTreme Power® HSC 13000A and HSC 14000A reduce operating noise to a low 58 decibels.

## Product Spotlights

### Low-Noise Machines

Daimer® offers two self-contained floor and hard surface cleaning machines with acoustic cases designed to reduce noise. The XTreme Power HSC 13000A and XTreme Power HSC 14000A clean a variety of porous and non-porous surfaces up to 30 times faster than conventional methods, yet produce as little as 58 decibels of sound.

The machines are ideal for cleaning professionals working in busy offices, hospitals, nursing homes and other environments where noise is a concern. The machines clean indoor and outdoor surfaces and are among the quietest in the industry.

The 13000A and 14000A can generate pressure levels of up to 1500 psi and are designed to minimize water use, overflow and drying times. The machines can accept hot water of up to 210 °F, but do not have their own heating units. The equipment has a dumping capacity of five gallons per minute. Available heads include: dedicated hard floor spinning heads in two sizes (see below), carpet wands, upholstery wands, pressure washer wands and squeegee wands.

The 14000A comes with a 19-inch motorized head for big jobs. It is capable of cleaning 1000 square feet per hour, spins at 1000 rpm and fires water 1500 psi. The head features a rubber guard that prevents over-spraying and leakage. The attachment even works on uneven surfaces.

The 13000A includes a smaller 9-inch motorized head, which spins at the same speed and generates the same pressure as the larger model. It is ideal for smaller spaces and the head can be removed from its wand for cleaning walls.



## Reseller Programs

XTreme Power® floor and hard surface cleaners are available to resellers worldwide. Daimer® works with resellers by:

1. Handling labeling of private labeled machines.
2. Providing specification sheets.
3. Assisting with the choice and configurations of products for special markets, such as those with 230V or 440V, 50 or 60 Hz power requirements.

Requirements:

1. Minimums orders are necessary for involvement in the Daimer® reseller programs.
2. Freight cost will be added to invoices.

Contact Daimer® at (888) 507-2220 to speak with a Product Specialist or email us at [www.daimer.com/reseller-prorams](http://www.daimer.com/reseller-prorams) and describe your needs.