MACH 12
High Speed Low Moisture Soil Extraction Carpet Cleaning System

Air Cell Extraction™ with Encapsulation

Fast • Easy • Convenient
MACH 12
High Speed Low Moisture Soil Extraction Carpet Cleaning System

Take over the controls of the MACH 12, push the buttons… and WOW! Go from ZERO to 12,000 sq. ft. (1,100 sq. meters) PER HOUR! The MACH 12 literally breaks the speed and performance barrier… LEAVING ALL THE OTHER CARPET CLEANING MACHINES “IN THE DIRT!”

The MACH 12™ system converts the Von Schrader Certified Advanced Air Cell cleaning solution into low moisture, anti-resoiling air cell bubbles. These cleaning bubbles are fed into the brushing chamber where an exclusive full bristle brush gently loosens and dissolves soil. The emulsified soil is suspended in the air cell bubbles. It is simultaneously extracted by the built-in vacuum system, by one person, all in one forward pass.

Carpets are deep cleaned faster and they dry quicker than with other systems. Another benefit, low moisture means no risk of mildew caused by over wetting.

HOW IT WORKS DIAGRAM:
Over 154,185 soft pliable nylon bristles of this cylindrical brush assure thorough, deep-down penetration.

Brush will reach the base of any pile depth to loosen and lift soil into suspension for instant removal.

Dry air cells generated in machine are deposited evenly just ahead of the brush.

Vacuum intake

Powerful, built-in vacuum simultaneously extracts dirt laden air cells.

MACH 12 offers the three elements needed for deep cleaning:

- **AGITATION** • **EMULSIFICATION** • **EXTRACTION**
  1. A full bristle, not a partial bristle brush, effectively lifts the carpet pile all the way to the base, along with the soil in it. This is thorough agitation.
  2. A low moisture cleaning solution containing 5% - 10% moisture, chemically suspends oily soils. This is true emulsification.
  3. A built-in vacuum with two turbine fans removes soil and cleaning agent as the MACH 12 is moved forward across the carpet. This is thorough extraction.

Easy to operate
No special skill (or strength) is needed to operate the system. Regular maintenance staff will do a professional job every time. JUST FILL THE TANK, PRESS THE SWITCHES AND GO.

Clear view recovery tanks
Have molded-in hand grips for easy, convenient handling. Because limited moisture is used there is less “downtime” emptying the two four gallon tanks, than is required for wetter systems.

More coverage, less refilling downtime
Because a low moisture cleaning agent is used, the MACH 12’s two six-gallon solution tanks are smaller and lighter weight. This still gives you more sq. ft. coverage per gallon, than with the “wetter” systems.

Rugged, durable construction
The MACH 12 is “quality built to last!” The hood lifts up for easy access to the entire system. There’s no pump to worry about, and no chance of recovered solution ever entering or damaging the vacuum motors.

Aggressive, deep cleaning, full bristle 24” brush
30,000 flexible nylon bristles rotate at high speed, penetrating all the way down to the base of the carpet. This loosens and suspends soil for immediate extraction… all in one fast forward pass.

Payback Time.
Unsurpassed Time & Labor Savings!
Faster cleaning speed reduces labor costs, while achieving exceptional results. Your initial investment cost is quickly recovered. Here’s an example:

**Cleaning 12,000 sq. ft. of Carpet**

- Machines cleaning 1,000 sq. ft. per hour require 11 hours more to do the same area as the MACH 12.
- MACH 12 cleans 12,000 sq. ft. per hour. If labor cost is $15.00 per hour, the labor savings would be $165.00.

The MACH 12 reduces your labor time, cost and frees up cleaning staff for other tasks.
**This is True Bottom-line Savings!**

Customer Service and Training
- Complete factory supported toll free call center 800-626-6916
- DVD & Hardcover Instruction Manuals
- State-of-the-art training facility at factory and across the country
Von Schrader Manufactures the Correct Cleaning Solutions to Meet Your Needs.

All of Von Schrader detergents are engineered to be state-of-the-art. They are of the highest quality and greatest value. These cleaning products demonstrably give the best results.

Our super concentrated, anti-resoiling, cleaning solution reduces costs and increases performance in the MACH 12 system. It is formulated to be strong enough to remove deeply embedded oily soil in just one pass. This works on both synthetic and natural carpet fibers. It is gentle enough to clean without damage to the fibers and is Green Seal Certified. This cleaning solution has high margins of safety for optimum performance. One gallon of concentrate cleans up to 3,200 sq. ft. at about one cent per square foot.

The Pictures Below Are MACH 12 System Results.

Other Features & Benefits of the System:

• Uses Air Cell Cleaning Bubbles not gallons of water and eliminates problems associated with wet extraction.
• Dries quickly, often in less than one hour, reducing down time.
• Extracts and encapsulates soil so carpets stay cleaner longer.
• The MACH 12 is an integrated system which makes it easy to use. It’s so unique that it is patented.
• Advanced air cell technology makes cleaning fast, easy, convenient and is the best way to clean carpets.
• The (Genuine Advanced Air Cell Formula) logo on our bottle assures you optimum performance and results from the MACH 12 system.

Wetness Comparison
Each photo shows what happens when air cells or liquid are applied to paper napkins by two different methods of extraction cleaning.

30 seconds elapsed time

Air Cell Controlled
 Liquid Loss of Control

Air Cell Extraction™ technology uses thousands of tiny Air Cells which are 90% air and only 10% moisture. Notice the limited wetting and migration of Air Cells on the left compared to an equal volume of competitive solution on the right. Air cells control the cleaning process and problems associated with over wetting carpet.

Von Schrader Air Cell Technology
Minimizes Moisture! Avoids Over Wetting!

Microscopically Thin Layer of our Advanced Cleaning Formula Deep Cleans and Encapsulates to Trap and Hold Dirt.

Safer for people, pets, carpet and the environment.
Our cleaning process uses gentle, biodegradable, nontoxic, and fragrance-free cleaning surfactants that leave no sticky or oily residue to attract and hold soil.

• Green Seal Certified
• WoolSafe approved
• Carpet Mill recommended
• Champion Status E.P.A. SDSI
• Boeing Aircraft approved
# MACH 12 System Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>Length 40” Width 28” Height 37” at the handle.</td>
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<tr>
<td>Shipping Weight</td>
<td>105 pounds.</td>
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<tr>
<td>Net Weight</td>
<td>125 pounds.</td>
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<tr>
<td>Handle</td>
<td>Detachable.</td>
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<tr>
<td>Solution Tank Capacity</td>
<td>12 gallons - 2 tanks of 6 gallon capacity with funnel-fill openings and auto-positioning quick disconnect. Molded hand grips.</td>
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<tr>
<td>Dirty Solution</td>
<td></td>
</tr>
<tr>
<td>Recovery Tank Capacity</td>
<td>8 gallons - 2 tanks of 4 gallon each. Clear, “see-through”.</td>
</tr>
<tr>
<td>Power Supply</td>
<td>110-120 volt, 50-60 Hertz.</td>
</tr>
<tr>
<td>2 Motors</td>
<td>220-240 volt, 50-60 Hertz available.</td>
</tr>
<tr>
<td>Wattage</td>
<td>1550 watts.</td>
</tr>
<tr>
<td>Amperage</td>
<td>14 amperes, 110-120 volt. 7 amperes, 220-240 volt.</td>
</tr>
<tr>
<td>Brush Drive</td>
<td>1 HP @ 8300 RPM; permanently lubricated bearings</td>
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<tr>
<td>Vacuum</td>
<td>1 HP @ 15,000 RPM under load with twin fan chambers.</td>
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<tr>
<td>Transmission</td>
<td>Primary Drive Train - Helical gears permanently lubricated. Secondary Drive Train - Chain Drive.</td>
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<tr>
<td>Brush Construction</td>
<td>Rigid PVC Core, with 1-1/8” nylon bristles secured by 3 layers of epoxy resin-impregnated heavy cord. Length - 24” Diameter - 4-3/4”</td>
</tr>
<tr>
<td>Controls</td>
<td>3 illuminated rocker type switches: Red - Vacuum and brush drive. White: Foam generator control(2).</td>
</tr>
<tr>
<td>Dirt &amp; Foam Recovery</td>
<td>2 vacuum intake nozzles located to rear of cleaning brush pick up and deliver dirt laden foam to recovery tanks, where it mixes with Liquidator solution and is dissolved into liquid for easy disposal.</td>
</tr>
<tr>
<td>Color</td>
<td>Von Schrader steel gray hood and speckled gray detergent tanks.</td>
</tr>
<tr>
<td>Power Supply Cord</td>
<td>100 feet, 14 gauge 3-wire cord and plug for hook-up.</td>
</tr>
<tr>
<td>Operating Principle</td>
<td>One pass. Air and detergent are mixed under pressure to generate dense bubbles that are agitated into the carpet pile by a full bristle cylindrical brush. The brush applies bubbles to loosen dirt from base to tip of each carpet fiber. Dirt is held in suspension in the bubbles and is removed by twin turbine vacuums located immediately behind the brush. Vacuum deposits dirt and bubbles into recovery tank where cleaning agent is reduced to liquid for easy disposal. From less than 1 hour to less than 2 hours, depending on environmental humidity and carpet pile depth and density.</td>
</tr>
<tr>
<td>Drying Time</td>
<td>1 year warranty.</td>
</tr>
<tr>
<td>Warranty</td>
<td>Made in U.S.</td>
</tr>
</tbody>
</table>

## Green Cleaning That Really Works

- Certified: Green Compliance
- Avoids: Mold & Mildew, Allergens
- Economical: Energy Usage
- Non Toxic: Chemical Fumes
- Enhances: Indoor Air Quality
- Anti: Resoiling
- Conserves: Water Usage
- Low: Initial & Ongoing Cost
- Reduces: Downtime

## WORLDWIDE AVAILABILITY

- Von Schrader equipment is available in every U.S. and Canadian city and most countries of the world.

## OTHER QUALITY CLEANING SYSTEMS FROM VON SCHRADER

- LMX™ Low Moisture Carpet Soil Extraction Cleaning System™
- Esprit™ Low Moisture Upholstery Soil Extraction Cleaning System™
- ARIDEX™ Low Moisture Upholstery Soil Extraction Cleaning System™

Contact us for a personal test today!

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