

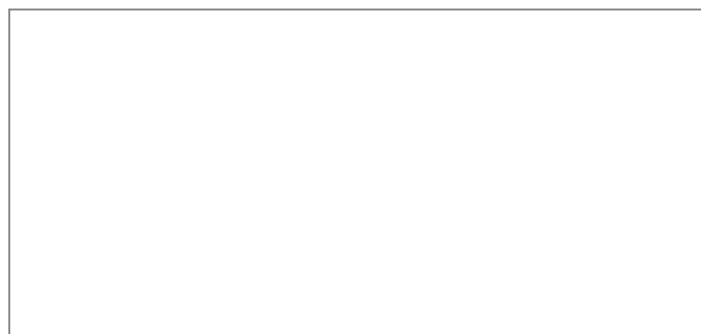


USER GUIDE

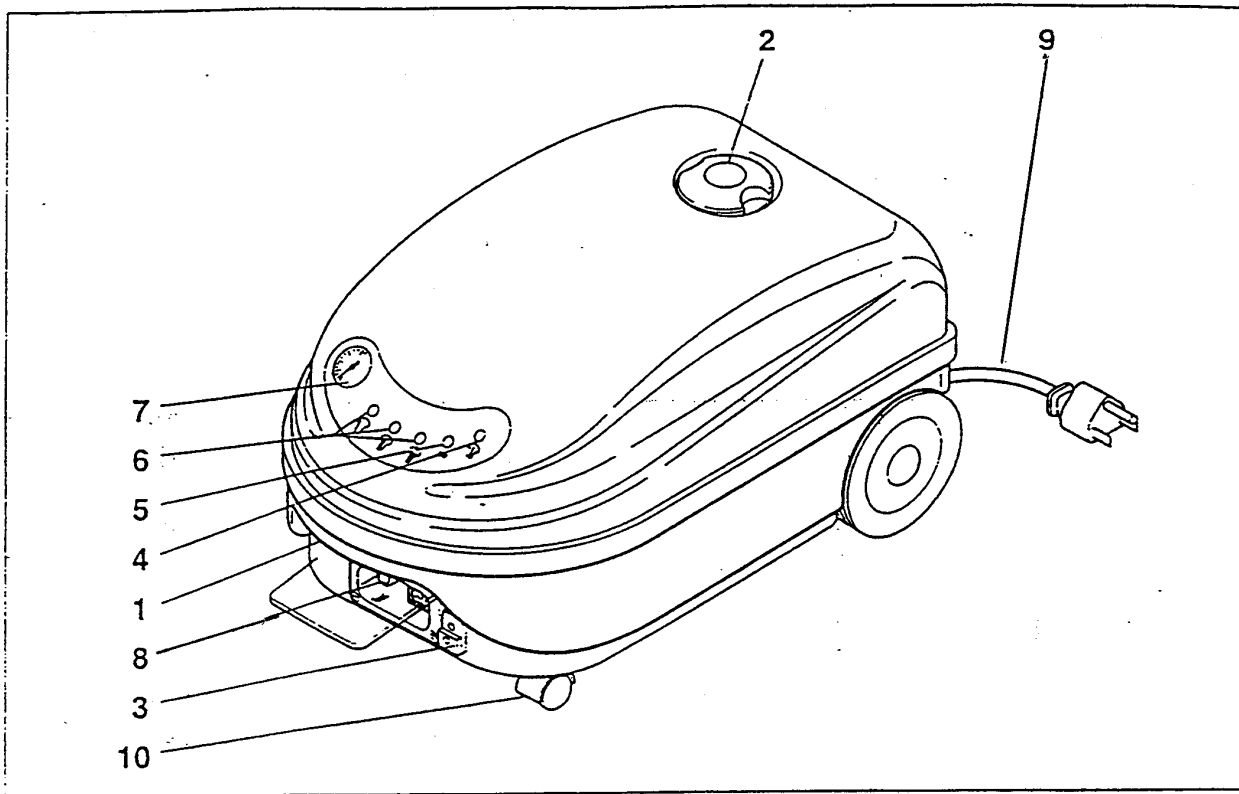
FOR

MONDO VAP 2400

**FOR ADDITIONAL INFORMATION
PLEASE CALL**

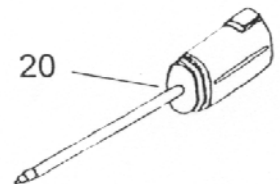
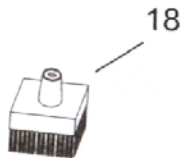
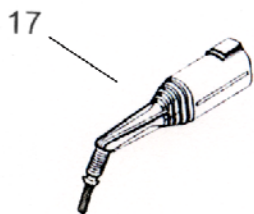
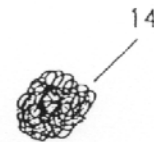
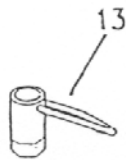
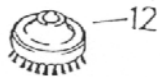
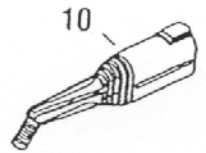
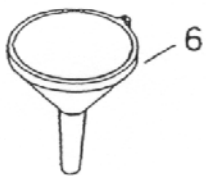
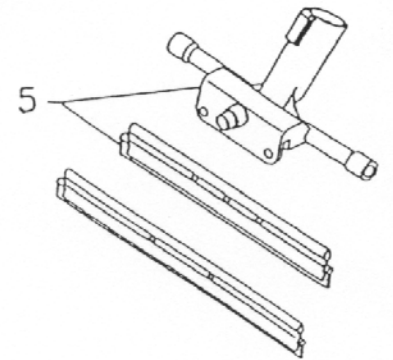
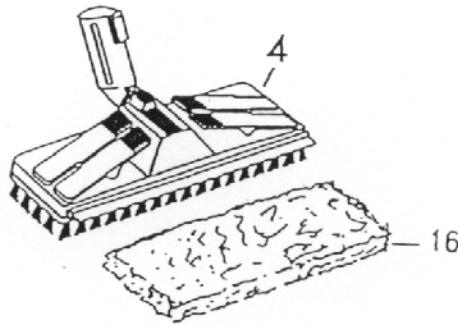
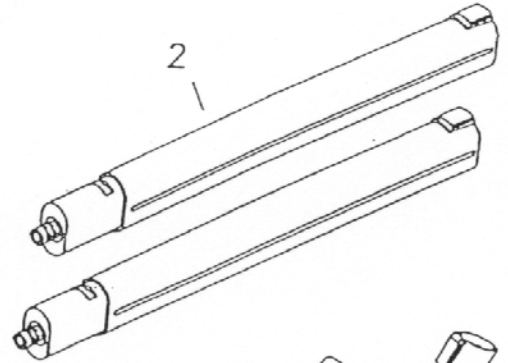
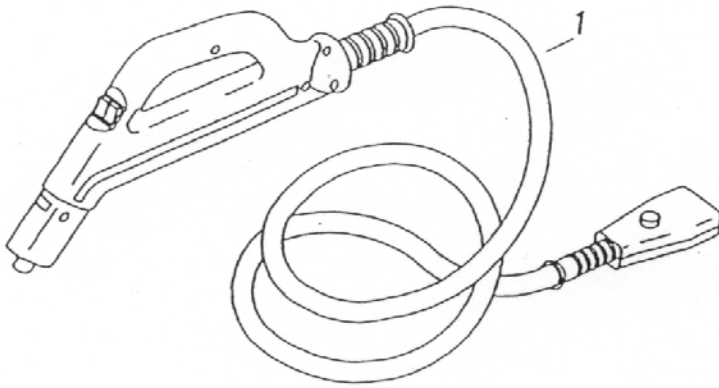


**DESCRIZIONE DELLA MACCHINA • MACHINE DESCRIPTION
DESCRIPTION DE LA MACHINE • BESCHREIBUNG DER MASCHINE**



ELEMENTI	COMPONENTS	ÉLÉMENTS	ELEMENTE
1 Maniglia	1 Handle	1 Poignée	1 Griff
2 Tappo serbatoio acqua	2 Water tank cap	2 Bouchon réservoir de l'eau	2 Wassertankdeckel
3 Interruttore generale, protetto contro gli schizzi d'acqua	3 Main switch, with drip protection	3 Interrupteur général, protégé contre les giclées d'eau	3 Hauptschalter mit Schutzabdeckung gegen Wasserspritzer
4 Segnalatore luminoso per apparecchio pronto all'uso	4 Machine-ready indicator light	4 Voyant lumineux appareil prêt à l'usage	4 Leuchtanzeige "Gerät betriebsbereit"
5 Segnalatore luminoso mancanza acqua nel serbatoio	5 No-water indicator light	5 Voyant lumineux manque d'eau dans le réservoir	5 Leuchtanzeige "Wassermangel im Tank"
6 Segnalatori luminosi per elettrovalvole	6 Solenoid indicator lights	6 Voyants lumineux pour soupapes électriques	6 Leuchtanzeigen für die Elektroventile
7 Segnalatore pressione manometro	7 Pressure gauge indicator	7 Voyant pression manomètre	7 Manometer-Druckanzeige
8 Attacco tubo vapore	8 Steam hose attachment	8 Attache tuyau vapeur	8 Dampfrohr-Anschluß
9 Cavo elettrico	9 Cord set	9 Câble électrique	9 Stromkabel
10 Ruote piroettanti	10 Castor wheels	10 Roues pirouettantes	10 Doppellenkrollen

ACCESSORIES



ACCESSORIES PART NUMBER REFERENCE LIST

REF	NEW PART	DESCRIPTION
1	8006010.2	HOSE ASSEMBLY COMPLETE ~ MondoVap
	8006229.0	5 METER HOSE ASSEMBLY (2400 SERIES ONLY)
2	8006005.2	EXTENSION HANDLES
3	8006008.1	TRIANGLE BRUSH COMPLETE BLACK BRISTLES
3	8006015.1	TRIANGLE BRUSH COMPLETE RED BRISTLES
	5206056.0	TRIANGLE BRISTLE PAD ONLY - BLACK
	5206063.0	TRIANGLE BRISTLE PAD ONLY - RED
4	8006001.1	LG. RECT. BRUSH COMPLETE
	5206008.0	RECT. BRISTLE PAD ONLY
5	8006004.2	WINDOW TOOL COMPLETE
	7006003.1	SQUEEGEE BLADE 25 CM
	7006004.1	SQUEEGEE BLADE 35 CM
6	7206004.0	FUNNEL
7	5206015.0	NOZZLE BRUSH - BLACK NYLON 30MM
7	5206263.0	NOZZLE BRUSH - GREY NYLON 30MM
7	5206051.0	NOZZLE BRUSH - BLACK BRASS 30MM
7	5206265.0	NOZZLE BRUSH - GREY BRASS 30MM
7	5206065.0	NOZZLE BRUSH - BLACK S. STEEL 30MM
7	5206068.0	NOZZLE BRUSH - GREY S. STEEL 30MM
8	5206014.0	NOZZLE BRUSH - BLACK NYLON 38MM
8	5206011.0	NOZZLE BRUSH - GREY NYLON 38MM
8	5206066.0	NOZZLE BRUSH - BLACK BRASS 38MM
8	5206071.0	NOZZLE BRUSH - GREY BRASS 38MM
8	5206067.0	NOZZLE BRUSH - BLACK S. STEEL 38MM
8	5206266.0	NOZZLE BRUSH - GREY S. STEEL 38MM
9	5206017.0	CREVICE/SCRAPER TOOL BLACK
10	8006003.0	NOZZLE WITH O'RING - BLACK
10	8006009.0	NOZZLE WITH O'RING - GREY
	5206098.0	EXTENSION FOR NOZZLE
11	8006011.0	PLUMBER'S HELPER (OPTIONAL)
12	5206012.1	NOZZLE BRUSH, 60MM BLACK BRISTLES
12	5206050.0	NOZZLE BRUSH, 60MM RED BRISTLES
13	7106001.0	BOILER DRAIN TOOL
14	-	STAINLESS STEEL PADS, 6-Pack
15	-	COTTON TERRY CLOTH TOWELS (DZ.)
16	-	FILLER PAD SET
17	8006217.0	BLACK TURBO NOZZLE (W/ METAL TIP)
18	5206224.0	ESCALATOR BRUSH W/NYLON BRISTLES
18	5206225.0	ESCALATOR BRUSH W/STEEL BRISTLES
18	5206226.0	ESCALATOR BRUSH W/BRASS BRISTLES
19	8006196.0	WEED KILLER
20	8006219.0	HYDRO BROOM
		MICRO FIBER TOWEL
	-	AMAZ
	-	FORMULA 212 QT.
	-	FORMULA 212 GALLON
*	-	SADDLEBAG (2400 SERIES)
*	-	TOUGH KIT - includes large round brush, 2 stainless steel pads, one each small brass & stainless steel nozzle brush.

SAFETY INSTRUCTIONS FOR USING A STEAM VAPOR SYSTEM

(This sheet should be attached to and left with the system at all times.)

The Steam Vapor System is an electrical appliance used to generate high temperature, low moisture steam vapor that is safe and easy to use. The system is designed to be used for sanitation and cleaning a wide variety of surface types using the heat contained within the steam vapor as the functional agent. As such, the user is required to read and understand the instructions for use as set forth in the User Guide, to follow accepted safety practices as with any other electrical appliance, and to read and understand the following:

1. Never direct the steam ports at any body parts, person or animal, as hot steam can cause injury.
2. Never use the system for anything other than its intended use, or use attachments not recommended by the manufacturer.
3. Never use a system that is not connected to a properly grounded electrical outlet of 120 VAC, 60/50 Hertz (cps), or if the power cord is damaged in any way.
4. Never use a system in a wet environment, or subject the system to extreme heat or cold, or use in an area where volatile fumes may be present, or immerse in any type of liquid.
5. Never attempt to continue to use a damaged or malfunctioning system. Turn “off”, then unplug the system and return it to your nearest authorized service facility.
6. Never use extension cord of less than 14 gauge in size (AWG), or rated less than 15 amps, or without a proper ground connection or safety listings, or in excess of 50 feet in length.
7. Never use the power cord or steam hose as handle to pull or carry the system.
8. Never leave a system unattended, even for short periods, when turned “on” or plugged in to an electrical outlet.
9. Never direct steam into electrical sockets, electrical switches, or use on electronic equipment even if unplugged as steam may cause damage leading to electric shock.
10. Never put anything into the machine reservoir except clean, clear, potable water, as damage may occur to the system, and may put the user at risk of illness or injury; adding materials other than water will also void the Warranty.
11. Never store the system where it may be exposed to severe temperature fluctuations, weather conditions or personnel traffic.
12. Always test the surface to be cleaned, as to whether high temperature of the steam will deform or damage the surface, in an inconspicuous area, particularly if the surface maybe susceptible to damage from heat or moisture. Insure that adequate ventilation is available if in a confined space.
13. Always turn the system “off” when filling with water, being careful not to overfill the reservoir.
14. Always assume, when removing body fluids that blood borne pathogens may be present and proceed with caution, including the use of gloves and other protective gear as set forth in OSHA regulation 1910.1030 and/or other applicable standards.
15. Always wear safety glasses when using the steam nozzles to blow out debris from cracks, corners or when using overhead as on ceilings or when in confined areas.
16. Always turn steam flow “off” before changing tools, accessories, brushes or bonnet towels. Steam vapor is hot and can cause burns. Insure that the accessories are properly attached before turning “on” the steam.
17. Always use caution in removing brushes or bonnet towels from tools, as they can be hot enough to cause scalding.
18. Always turn the power switch to the “off” position before unplugging the cord from the electrical socket to reduce danger of electrical shock.

Be sure that you understand and use these rules for safe and effective operation of your Steam Vapor System. If you have questions about the Safety Instructions or in the User Guide, please call your local Dealer or Advanced Vapor Technologies at 800-997-6584.

I HOW TO START UP A COLD MONDOVAP 2400R

a) Be sure system is unplugged and the power switch is in the “off” position.

b) Remove the reservoir cap and fill the tank with potable water, using the funnel supplied.

NOTE: Use only potable water to fill reservoir. Never put soap or any other chemical in reservoir tank. Doing so will void your Warranty.

NOTE: Although this system is designed to be splash proof it is always prudent to turn off the machine when adding water to the reservoir.

c) When reservoir tank is full, replace cap and plug system into a 120v AC grounded power outlet.

NOTE: If you must use an extension cord, always use a 14-3 AWG cord rated for 15 Amps.

Please keep the extension cord supplied with your system designated for its use only. If you must extend a power cord longer than 50 feet use a 12-3 AWG cord.

NOTE: Use of an extension cord may impede the function of the system. Using a light duty cord (16-3 AWG or less) may create a malfunction in the electrical portion of this unit which is not covered under the Limited Warranty.

d) Turn on the power switch located on the front of base unit to the right of the hose receptacle. When you have power to the base unit, the switch will light up. It will take about 7 minutes for the system to reach operating temperature and pressure. The system is ready for use when the steam “ready” light turns green. The pressure gauge should also read in the upper portion of the orange section of the dial.

NOTE: As the machine automatically fills the boiler, you will hear the water pump working. This noise is normal and indicates that the injection pump is transferring water from the reservoir to the boiler. As you use your machine this sound becomes intermittent and is normal.

e) Insert hose into the hose receptacle located at the front of the machine, checking that the hose switch (located on the handle) is in the “off” position. The red button on the hose connector should pop up when properly secured. Turn the hose switch to the “on” position while directing the hose handle into a sink, wastebasket or folded towel. Run the steam for 5-7 seconds. You should see steam and some water exit the hose handle. This is removing the air and condensation from the system. Now turn the hose switch “off” and allow the steam ready light to come back on. When the ready light turns green, the system is ready for use.

f) Attach your tool of choice to the end of the hose, making sure that the tool is fully seated on the hose handle. You should hear a “click” when the red locking tab seats itself. Once the tool is properly secured, turn on the steam at the hose handle grip and begin your work. A moment after turning on the steam, the steam ready light will go out or turn yellow. This is normal and indicates that the system is replacing the steam you are using. The pressure gauge will also reflect a reduction in pressure when using the system.

g) When finished using the system, simply turn off the power switch, unplug the cord and put it away.

NOTE: Be sure to turn the power switch off before you remove the power cord from the electrical outlet.

II HOW TO REFILL A WORKING MONDOVAP 2400

You may add water to the reservoir anytime you wish. Your MondoVap is low on water when you hear an audio signal and the “add water” light blinks. The system will automatically shut down the steam flow until water is added to the reservoir. When this happens, turn power switch “off”, unscrew the reservoir cap, and add water to the reservoir until it is full. Replace the cap, turn power switch “on” and you are now ready to continue your work.

NOTE: Turn the hose switch to “off”, turn power switch to “off”. Although the system shuts off the steam flow, there is still steam ready to be used. There is no waiting for the steam to rebuild unless the system is turned off for a long period of time. Even then, the system will reach working pressure in just a few minutes.

III MAINTENANCE

DRAIN THE WATER FROM THE BOILER EVERY MONTH

Over time the heated water will remove or cause precipitation of minerals, which are in the water. If this material is not removed it can potentially damage your machine. A good way of monitoring the mineral build up in the tank is by releasing steam into a clean white towel. If the residue from the steam hose discolors the towel, this means that the boiler requires draining.

NOTE: If your water has heavy mineral content, it is recommended to use inexpensive bottled water.

This is also true if your water is softened with the use of salts.

The drain cap is located underneath the base unit behind a plastic cover. Once you have drained the boiler, replace the brass drain cap and the protective plastic shield.

Remove deposits from boiler tank as follows:

- a) **Be sure unit is cold and unplugged.**
 - b) **Place it over a sink and remove the bottom drainage cap and let the water drain out. (Requires a 20mm hexagon socket – supplied with your system)**
 - c) **When water no longer flows from the boiler, replace and tighten the bottom drainage cap.**
 - d) **Replace plastic heat guard.**
 - e) **Fill reservoir with water. (See section I, How to start up a Cold MondoVap 2400)**
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IV STEAM VOLUME CONTROL

You have the ability to control the amount of steam you are using depending on the specific task at hand. In most cases it is always best to begin with low volume and work to higher volumes, as your job requires. 90% of your work can be accomplished using “low” or “medium” volumes of steam. Low volumes provide you with the hottest and driest steam, which is the most productive. Low steam volume creates less mess, uses less water and allows for more precise control of your cleaning environment.

High volumes are available for use on an intermittent basis and best suited to limited use when working on cracks, crevices or pre-steaming heavily soiled areas. Using high volumes of steam continually will actually reduce the steam temperature and reduce the effectiveness of your work. It also transfers more moisture to the work surfaces. This system was not designed to be a “pressure washer” or support the use of high continuous pressure. However, using high steam volumes continuously will not damage your system; only reduce the quality and quantity of your work.

The steam volume control is located on the hose handle grip. There are four positions available: Off, Low (using switch with one dot only), Medium (using switch with two dots only), and High (using both switches simultaneously). This system is engineered to be used on low for most jobs. Use higher volumes as needed. Volumes can be changed conveniently at the hose handle to suit your changing application needs without returning to the base unit.

V TEMPERATURE CONTROL

The steam volume controls are **NOT** temperature controls. The vapor temperature at the very tip of a nozzle may exceed 240 degrees F. As you move away from the tip, the vapor expands rapidly and cools quickly. At 9-10 inches from the nozzle tip, the temperature is less than 100 degrees F. To reduce temperatures for heat sensitive surfaces, move tool away from surface or if using a towel/brush combination, preheat towel with steam, turn off steam, then apply towel/brush to surface of concern. Using low volumes in combination with larger tools, moving across the sensitive surface quickly and continuously has the effect of reducing surface temperature also.

NOTE: The vapor system is not designed to be used on highly polished wood furniture surfaces, thin or malleable plastics, or on materials where extended high heat and moisture can cause damage.

VI WORK TECHNIQUES

Work from the top down on any project so dirt will not fall on previously cleaned surfaces. Start with corners and other tight areas using the nozzle and small brushes, working your way up to larger surfaces and larger brushes.

PRESTEAM Get in the habit of presteaming a surface if it is heavily soiled. At 5” distance apply direct steam on surface from all directions for a few seconds on medium volume. Depending on the size of surface use hose handle, nozzle or rectangular brush.

SPEED Let the heat do the work for you! Do not move too quickly, unless surface is sensitive to heat such as latex paint, wallpaper, colored fabric and thin plastics. Light agitation will be sufficient for most jobs.

WIPE Remember to always wipe the area you just treated. All surfaces have pores, even glass. The MondoVap operates through hot “dry” steam opening and penetrating deep into the pores of any surface. Wipe off dirt immediately before the surface cools down.

VII CLEANING OF ACCESSORIES

Use the nozzle, with or without a small circular brush, to clean all accessories. Use another nozzle to hold small brushes to be cleaned. Get into the habit of cleaning the brushes before the dirt hardens into the bristles. Brushes may also be sent through the dishwasher for cleanup.

VIII EXTENSION CORDS

Use a three-prong extension cord 14-3 AWG rated for 15 amps at less than 50'. If you use a cord longer than 50 feet, the cord may reduce the power flow to system. For longer runs, use a 12-3 AWG heavy-duty extension cord. Heating up a unit on an extension cord may take longer.

IX POWER REQUIREMENTS

ALWAYS TURN THE POWER SWITCH “OFF” BEFORE YOU UNPLUG THE MONDOVAP!

If possible, plug the unit into an outlet isolated from other equipment, or turn the other equipment off while using the MondoVap – the combined effect of other equipment and the MondoVap together may cause a circuit breaker to trip. The MondoVap requires about 12.5 amps to work correctly.

X CHEMICALS

VERY IMPORTANT – NEVER PUT ANY CHEMICALS INTO THE RESERVOIR TANK!
DOING SO WILL VOID WARRANTY AND COULD RESULT IN MALFUNCTION OR DAMAGE TO THE SYSTEM.

For most jobs you do not need to use chemicals with the MondoVap system. When you do need chemicals, **PRETREAT** the area of concern and avoid harsh, toxic chemicals. Use mild, biodegradable detergents, such as regular dishwashing liquids, or use chemical substitutes – see XI. The heat activates the detergent and you need much less of it.

XI CHEMICAL SUBSTITUTES

Bleach	Lemon juice is a good bleach, plus it will soften hard water deposits in the bathroom areas.
Ammonia	Use a solution of vinegar, salt and water, or use baking soda and water.
Glass Cleaner	Use white vinegar.
Oven Cleaner	Use a paste of baking soda, salt and water.
Grout Cleaner	Vinegar is a natural acid and is great for cleaning tile grout.
Rust Remover	A paste of lemon juice mixed with salt is a good rust remover.
Metal Polish:	
Stainless Steel	Use either baking soda or plain carbonated water.
Brass	Polish with Worcestershire sauce.
Copper	Soak in a vinegar and salt solution.
Silver	Soak in 1 quart of warm water containing 1 tsp baking soda, 1tsp salt and a piece of aluminum foil.

XII APPLICATIONS, TIPS AND PRECAUTIONS

1. KITCHENS

CAUTION: MAKE SURE ALL APPLIANCES ARE DISCONNECTED BEFORE CLEANING!

GENERAL Use nozzle on high volume to blow away dirt where the brushes won't fit. Use small nylon brush for detail cleaning. Wipe with towel. For large areas use triangle brush with 1 towel on medium volume and wipe.

OVENS, GRILLS *NOTE:* If oven is hot the steam will not penetrate carbon deposits. Let the hot surface cool down before cleaning.
Use large circular brush with the stainless steel pad attached for large surfaces and oven glass. Use small circular nylon, brass or stainless steel brush for detail cleaning. Wipe with cotton or paper towels.
NOTE: No need to use toxic cleaners. If necessary, any mild soap, like a diluted solution of dishwashing detergent, will cut the grease when combined with the heat.

DISHWASHERS Use large circular brush with stainless steel pad attached for removing calcium build up on stainless steel surfaces. Use nozzle with high volume to clean hard to reach places.

REFRIGERATORS/ FREEZERS	<i>NOTE:</i> No need to shut down refrigerators, walk in freezers or coolers while cleaning with the MondoVap.
WALLS	Use triangular brush on low to medium volume to clean walls with a textured surface. Immediately wipe dirt with a towel before it freezes.
STEEL RACKS	Use large circular brush with stainless steel pad attached on medium volume and wipe. For detail cleaning, use brass or steel brush with a piece of stainless steel pad inserted in the bristle.
ICE BUILD UP	Use the nozzle to cut out blocks of ice build up or frozen spills on freezer floors or door gaskets.

2. <u>BATHROOMS</u>	<i>NOTE:</i> It is possible to scratch some porcelain with the black nylon bristle. Too much heat might discolor some enamel paint. The brass and stainless brush may discolor or scratch some porcelain.
FAUCETS & FIXTURES	Use nozzle to treat hard to reach areas on medium to high volume, detail brush where needed. Wipe with clean terry cloth.
BATHTUBS	Use triangular brush on medium volume and wipe. Rinse with water or wipe clean with towel. On difficult areas: pre-spray with lemon juice or use system together with a pre-treatment of baking soda.
FLEXIBLE CAULKING/ SEALANTS	
GENERAL	Use nozzle on medium volume, 2"-5" above surface and move the dirt in one direction holding the nozzle parallel to the surface. Move quickly. Wipe with towel. <i>NOTE:</i> Many caulking compounds actually support the growth of mold and mildew. Discoloration is often a result of organisms growing in the caulking material and cannot be removed.
REMOVAL	To remove caulking, use nozzle with detail brush on medium to high volume directly on the caulking surface.
FIBERGLASS WALLS	Use triangular brush with or without towel on low volume. Work with light motions across the fiberglass in the direction of the grain.
SHOWER	Use triangular brush with no towel to remove accumulated soap scum that has a hard surface from minerals. Rinse with water or wipe with clean towel. Use

brush with stainless steel pad attached to remove hard water stains from glass; do not use stainless steel pads on chrome surfaces.

TOILETS

Use nozzle to clean hard to reach areas on medium to high volume. Use detail brush where needed. Wipe with towel. You can use the nozzle with brush and extension tubes under water.

NEVER PUT THE HOSE GRIP WITH CONTROLS UNDER WATER!

3. FLOORS

WAXED VINYL

MAINTENANCE

Use the large rectangular brush with 2 towels on low to medium volume and mop. **Work quickly.**

NOTE: The MondoVap will melt and remove the thin top layer of wax that has the dirt in it. Use large rectangular brush with towel attached.

DEEP CLEANING

Same as maintenance – first presteam or prespray floor with mild or weak solution of biodegradable detergent.

WAX STRIPPING

Use the large rectangular brush for large areas, triangular brush or circular brush for corners and tight areas. (Use a coarse-grade (black) scrubbing pad with the brushes for heavy build up). The wax will melt onto the scrubbing pad – reverse or replace pads as they get filled with wax. Do about 20 square feet at a time and clean up immediately with a hot towel. Use the squeegee on the large rectangular brush to move wax debris.

UNWAXED VINYL

MAINTENANCE

Use large rectangular brush with 2 towels on low to medium volume and mop.

DEEP CLEANING

Use large rectangular brush no towel on medium volume and work slow enough to allow steam to penetrate dirt. If needed first presteam or prespray floor with a weak solution of biodegradable detergent. Wipe with cotton towel or mop.

HARDWOOD & MARBLE

CAUTION: TOO MUCH HEAT AND MOISTURE CAN REMOVE WAX, VERATHANE AND/OR STAIN, PLUS TOO MUCH HEAT MAY DAMAGE THE POLISHED SURFACE OF MARBLE. NEVER USE A BRUSH WITHOUT A TOWEL ON HARDWOOD OR MARBLE FLOORS.

MAINTENANCE Use large rectangular brush with 2 towels, preheat towels off the surface, mop without steam. If floor is heavily soiled spray mild detergent on towel. Follow up with a clean towel to remove soap residue.

WAXING Use large rectangular brush with 2 towels on low volume. Apply liquid wax directly onto front of towel. Spread wax on floor – work quickly for an even coat. Polish afterwards with polisher or buffer if needed.

STRIP WAX Use large rectangular brush with 2 towels on medium volume and move slow. Change towels often.

TILE WITH SEALANT

CAUTION: THE VAPOR SYSTEM MAY REMOVE THE SEALANT IF TOO MUCH HEAT AND PRESSURE IS APPLIED. TEST AN AREA FIRST. IF SEALANT REACTS TO THE HEAT, USE LESS HEAT – SEE NOTE III. IF THE DIRT IS UNDERNEATH THE SEALANT, IT HAS TO BE REMOVED AND THE TILE CLEANED AND RESEALED.

MAINTENANCE Use large rectangular brush with 2 towels on medium volume or preheated pad and mop.

DEEP CLEANING Same as maintenance, presteam or prespray with biodegradable detergent. Follow up with clean towel to remove any soap residue.

SEALANT REMOVAL Same as wax removal – See vinyl, strip wax.

TILE WITHOUT SEALANT

MAINTENANCE Use large rectangular brush with towel on medium volume and mop.

DEEP CLEANING Use triangular brush if heavily soiled, clean up with large rectangular brush and towel. Use medium volume and allow steam to penetrate dirt. Presteam or prespray with biodegradable detergent if needed. Wipe with towel or clean floor mop.

GROUT

CAUTION: BRASS OR STAINLESS STEEL BRUSH MAY SCRATCH. TEST FIRST.

Use large circular, nylon or brass nozzle brush on medium volume. Presteam or prespray with biodegradable detergent if grout is heavily soiled. Lay a towel on the floor and with the brush mop up the dirt before it dries. Work in sections.

CLAY & NATURAL STONE	Use large rectangular brush with 2 towels, on medium volume and mop. If surface is heavily soiled presteam or pretreat with soap before mopping.
BASEBOARDS/ WAX BUILDUP	Use triangular brush with black scrubber pad attached on medium volume. Work smoothly and allow the heat to dissolve the built up wax and dirt. Wipe up with towel. <i>NOTE:</i> The baseboard may look washed-out after cleaning with the vapor system. Recondition with a silicon treatment.
ALUMINUM THRESHOLD	Use nozzle with nylon or brass nozzle brush on medium or high volume, lay a towel on the surface and with the brush mop up the dirt before it dries.

4. CARPETS

CAUTION: ALWAYS TEST AN AREA FOR COLOR FASTNESS BEFORE STEAMING. SOME CARPETS ARE MADE WITH VEGETABLE DYES, WHICH ARE NOT HEAT “SET”. THE COLOR MAY BLEED FROM TOO MUCH HEAT AND MOISTURE. THE HEAT FROM THE VAPOR SYSTEM DOES NOT MELT SYNTHETIC FIBERS, BUT MAY CHANGE THEIR SHAPE OR DEFORM THEM AT TEMPERATURES OF 185° - 250° - USE METHOD DESCRIBED IN #V- TEMPERATURE CONTROL TO REGULATE HEAT. TEST A SMALL AREA BEFORE DOING A LARGE JOB.

NOTE: Always vacuum the carpet first! Remove spots and stains first.

SPOT CLEANING

CAUTION: DO NOT PUT THE NOZZLE DIRECTLY ON THE SPOT TO BE CLEANED. STAY 5-8 INCHES AWAY (SEE #III MAINTENANCE) TO REDUCE HEAT, WHICH CAN CHEMICALLY “SET” PROTEIN-BASED AND FOOD DYE STAINS INTO THE FIBERS.

Use the nozzle on high – volume presteam spot 5 – 10 inches above carpet for 10 seconds. Take a towel in your hand and “lift out the dirt” gently by blotting. Repeat until spot is gone. Do not smear. With each additional presteaming and “lifting out the dirt” process, the better the results.

PROTEIN SPOTS	Blot with towel dampened with a solution of 1 tsp. white vinegar and 1 quart cold water.
FOOD DYE SPOTS	Blot stain with a solution of water and lemon juice or vinegar.
WATERMARKS	First wet the stain with carbonated water, then use small triangular brush with towel on low volume and wipe.

REOCCURRING SPOTS

If a spot comes up again and again, it has a “reservoir” under or in the padding. Before removing the stain, it is necessary to dry it out first. Press drying agents such as talcum powder, a mixture of cornstarch and cornmeal or clean unscented, uncolored cat litter into the fibers – do not rub. Let sit for 20 minutes, and then vacuum it out.

SURFACE SPOTS

If the spot is only on the surface of the carpet it can be removed by shooting the steam against the spot from the side, 1” – 2” above surface. Hold a towel on the other side to catch residue. This prevents driving the particles deeper into the fibers.

GUM

Same technique as Surface Spot, except use paper towel instead of cotton towel. If the gum melts too much, let it cool off before trying again. To remove the remaining stain of gum put a dab of dishwashing liquid into stain, repeat Spot Removing above.

INDUSTRIAL TYPE CARPETS

MAINTENANCE

Use large rectangular brush, 2” above carpet, and presteam on high volume an area 6’x 6’. The steam will cause the dirt and soil particles to loosen their grip on the carpet fibers and opens up the fibers. . Then use the rectangular brush with 2 towels on medium volume and go over presteamed area with the same movements as when you vacuum. Change towels when dirty. Repeat these steps if necessary. Move on to next area.

DEEP CLEANING

Presteam the whole carpet and vacuum again. Follow same steps as maintenance cleaning. If needed prespray carpet with non sudsing, non oil based, water soluble, mild cleaner.

STAIN RESISTANT CARPETS

CAUTION: EXCESSIVE CONTINUOUS HEAT FROM THE STEAM MAY REMOVE THE SOIL RETARDENTS THAT MAKE THE CARPET STAIN RESISTANT.

NOTE: If the carpet is heavily soiled the stain resistance is probably already gone. The carpet should be re-treated with soil retardant after it is cleaned.

Use same technique as Industrial Type Carpet, but do not stay in one spot too long.

SPOTTING NON COLOR FAST

Use nozzle 2” – 4” above carpet on high volume and shoot from the side with quick side to side movements, lengthwise and crosswise. Hold towel to the side to catch dirt as it blows out of the carpet. Do not go closer than 2” with the nozzle. Fluff up the fibers evenly with a dry towel.

SILK & OTHER DELICATE CARPETS Use large rectangular brush with 2 towels, preheat and wipe with no steam. Wait a few minutes. To dry, use a large rectangular brush with 1 towel, without steam, and wipe with vertical and diagonal strokes.

5. WALLS & CEILINGS

CAUTION: NEVER USE A BRUSH WITHOUT A TOWEL ON PAINTED SURFACES! ALWAYS USE 2 TOWELS ON THE RECTANGULAR BRUSH!

WALLPAPER-WASHABLE Use large rectangular brush with 2 towels. Preheat towels and wipe with steam on low volume. Use smooth, rapid strokes. For spot cleaning, use nozzle on high volume, 5" off surface to presteam spot, wipe immediately with towel.

DEEP CLEANING If surface is heavily soiled presteam surface or spray the towel with biodegradable detergent. Follow up with clean towel to remove residue. If wallpaper is textured, presteam 2" off surface. Wipe with towel. Do not stay on one spot too long.

NON WASHABLE Use large rectangular brush with 2 towels. Preheat towel and wipe with no steam. Move quickly with smooth strokes. Do not stay in one spot too long.

PAINTED WALLS & CEILINGS

OIL PAINT Use large rectangular brush with 2 towels on low to medium volume and wipe. Do not stay in one spot too long. Use extension tubes to reach the ceiling.

LATEX PAINT Use large rectangular brush with 2 towels. Preheat towel and wipe with no steam. Do not apply pressure. Move quickly with smooth strokes. Or use nozzle on high volume, 5" off surface to presteam spot. Do not get surface too wet. Wipe gently with towel.

6. TRACKS & MOLDINGS

TRACKS Use nozzle with detail brush on low to medium volume. Place towel around brush to collect dirt once you have loosened surface grime. Use extension tubes to reach below waist or overhead.

NARROW MOLDINGS Use nozzle brush on medium to high volume. Hold the nozzle in one hand and a towel in the other hand, move the nozzle and towel at the same time in one direction moving the dirt into the towel. Hold the nozzle parallel to surface. Move quickly. Wipe with dry towel.

7. WINDOWS & FRAMES

CAUTION: ALWAYS PREHEAT ENTIRE GLASS WITH THE SQUEEGEE 2 – 3 INCHES FROM SURFACE BEFORE CLEANING! DO NOT CLEAN GLASS WHEN TEMPERATURES ARE BELOW FREEZING! AVOID WINDOWS AND MIRRORS WITH CRACKS.

GLASS/MIRRORS

MAINTENANCE	Use window squeegee on medium volume and go over window top to bottom.
DEEP CLEANING	Use triangular brush with towel on low to medium volume over entire surface. Use squeegee with steam to finish window surface.

FRAMES

PAINTED WOOD, PLASTIC	Use nozzle with the nozzle brush on low volume, placing a towel around the brush and wipe frame, or use same technique as moldings.
ALUMINUM	Use nylon or brass brush directly on the surface to remove dirt and to polish. Wipe with towel.

8. BLINDS

CAUTION: DO NOT USE EXCESSIVE HEAT ON VINYL BLINDS AS IT MAY CAUSE THEM TO DEFORM. TEST FIRST.

DUSTING	Open blinds and use nozzle on high volume at 6” from surface to blow dust onto window, then clean window with steam squeegee.
DEEP CLEANING	Close blinds with top of slats facing you. Use triangular brush with 2 towels on low volume. Wipe side to side from the top down. To reach the whole slat spread the slats with the other hand while wiping. Close the blinds from the opposite direction treat opposite side of blind.
STRINGS	Pull the blind all the way up. Wipe the string with a towel wet with detergent. Pull the string slowly through a detail brush on low volume.

9. DRAPES

SHEER, ONE PLY FABRIC

Use small rectangular brush with towel, on low volume, on one side of pleat and use the large rectangular brush with towel on the other side. Move both brushes at the same time from top to bottom at medium speed. The steam will go through the fabric and remove the dirt both sides.

INSULATED, MULTIPLE-LAYERED FABRICS

Same technique as Sheers, but do not move too slowly since the insulation is generally heat sensitive. Go over surface twice quickly, rather than once at a low speed.

10. UPHOLSTERY

CAUTION: DO NOT USE EXCESSIVE HEAT, USE ONLY A PREHEATED TOWEL FOR CLEANING GLUED ON FABRICS! ALWAYS TEST THE FABRIC FOR COLOR FASTNESS ON THE BACKSIDE OF FURNITURE. BE EXTRA CAREFUL WITH REDS, BLUES AND VELOUR FABRICS.

COTTON

Use triangular brush with towel on low to medium volume and wipe. Use circular movements to get all sides of the fibers. Finish with brushing in one direction so that the fabric will give an even appearance.

SILK

Same as Cotton except – preheat towel and wipe with no steam. If towel is too hot to touch with your hand, it is too hot for the silk.

LEATHER

Do not clean after conditioner has been applied. Do not clean too often. Use triangular brush with towel, preheat towel, and wipe with no steam. Dry with a towel and wipe in all directions.

VINYL

CAUTION: VINYL HAS A SMOOTH SHINY SURFACE THAT CAN BE DULLED WITH HEAT. IT IS RECOMMENDED TO RECONDITION THE VINYL AFTER CLEANING.

Use triangular brush with towel on low to medium volume and wipe. Use the nozzle at an angle to blow out dirt from crevices. Hold a towel to the side where it will catch the dirt. Never put steam nozzle directly on vinyl surfaces.

SYNTHETICS

Use triangular brush with towel. Pre-steam towel and wipe with no steam. Do not stay on one spot too long.

SPOT CLEANING

See Carpet Spot Cleaning.

11. WOOD SURFACES

CAUTION: DO NOT CLEAN WOOD SURFACES TOO OFTEN. EXCESSIVE HEAT AND MOISTURE MAY REMOVE WAX, VERATHANE AND/OR STAIN.

Use triangular brush with towel. Preheat towel and wipe with no steam. Check for discoloring on towel. After deep cleaning, wood should be reconditioned.

12. FIREPLACES

BRICK, CEMENT

Use nozzle on medium or high volume at 1”– 2” distance. Start from the top and work down, blowing the steam from different directions pushing the soot down. Pick up soot with paper towel. Go over the surface with large rectangular brush on medium volume afterwards, wipe with towel.

BLACK STONE PLATES

Use large rectangular brush on medium volume and wipe. After soot lifts use nozzle to blow out soot from the pores. Pick up soot with towel.

GLASS

Same technique as Oven.

13.PLANTS & SILK PLANTS

CAUTION: DO NOT DIRECT STEAM AT LIVING FLOWERS OR FLOWERING PLANTS. FLOWERS ARE TOO DELICATE FOR THIS TREATMENT.

Use nozzle on medium pressure volume, 20 – 25 inches away from plant. Dust and wipe if necessary.