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Matrix SDV8R

The Matrix SDV8R has been specially designed for the purpose of cleaning on the Indian Railways. The machine is the heavy-duty version of the SDV8000 in which we have recently demonstrated at New Delhi railway by Bob Pownall of Matrix Cleaning Systems. It has been designed with 4 heavy-duty casters for easy manoeuvrability around the carriages.

The SDV8R machine has 3 main features that work independently or all together:

- Steam at 8 bar pressure
- Chemical injection
- Wet/Dry vacuum pickup

It comes standard with a full range of cleaning accessories for each type of cleaning task. Please see the list of accessories on the technical information sheet attached.

Below I have identified the different cleaning task you will require on the carriages and the SDV8R will benefit your cleaning needs.

As discussed at the demonstration you have an issue with cockroaches. My recommendation would be that's after time cleaning with steam this would remove particles of food and their body waste. With a good pest control system in place we feel this would resolve or at least reduce your issue.

Enc/Att:
Performance Criteria
Technical Information





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Performance Criteria

Benefits of the SDV8R

Dry steam, detergent and Vacuum cleaning will save you time and money and has a wide variety of applications for use on the railways. Steam and vacuum cleaning leaves surfaces virtually dry as soon as the cleaning is completed. Upholstery and carpets are dry within minutes. Not only is the cleaning faster, but the railway carriage is deodorised also.

Here are some examples:

Carriage Cleaning

- Floor
 - Vinyl - Using steam and vacuum with a 300mm floor tool will remove most marks from the floor and leave surface dry and clean when finished.
 - Carpet – Using steam, detergent and vacuum with 300mm carpet tool will freshen the area. On stubborn stains an upholstery tool can be used along with the steam, detergent and vacuum.
- Walls
 - Using steam and Vacuum with a squeegee tool you can clean the area leaving it dry when finished. On stubborn marks and stains apply detergent to help remove these.
- Windows
 - Using the 250mm glass washer with steam and vacuum will leave the windows streak and smear free. The windows will stay cleaner for longer because there is no chemical residue to attract dirt and dust.
- Seating Area
 - Vinyl/Plastic seats – Using Steam and vacuum with the 150mm clip on brush will remove all stubborn stains quickly and easily leaving the seat clean and dry after finishing. Also the clip on squeegee can be used on the less soiled seats.
 - Upholstery – Using steam, detergent and vacuum with an upholstery tool will clean the seats of most stubborn marks leaving the fabric clean and fresh.



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Lavatory

- Sinks
 - Using steam only and a detail brush you can clean dirt from all the smallest and deepest crevices. Will polish fixtures while removing the build up of scale from around taps and handles.
- Wall Cladding
 - Using steam and Vacuum with a squeegee tool you can clean the area leaving it dry when finished. Will remove nicotine and tar residue from the walls and ceilings.
- Toilets
 - Using steam and detergent with a details brush will clean, deodorise and sanitise in one simple step. The details cleaning will remove dirt from crevices that other cleaning methods cannot reach.
- Floor
 - Using steam, detergent and vacuum with a 300mm floor tool will remove most marks from the walkways and leave surface dry and clean when finished.

Food Service and Preparation Areas

Reduce opportunities for contamination in food preparation areas by cleaning and sanitising in one easy step without the use of chemicals.

- Using Steam and vacuum you can polish clean and sanitise all without the use of chemicals using the details brush.
- Using steam and vacuum you can clean and polish stainless steel, refrigerators and freezers using the detail brush or 250mm clip on squeegee.
- Ovens – stop baking noxious chemicals into the food. Remove baked on grease and food quickly and easily using only dry steam and details brush
- Steam dissolves grease on ovens, stovetops and burners with ease
- Dirt and residues are forced out of even the deepest cracks and crevices around fixtures and fittings using steam only and a details brush.



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Technical Information for the Indian Railway

Technical Information

Feature	Description	SDV8R	
Body	Machine outer casing	Stainless steel	
	Front Casters	2 x Swivel and brake (100 x 27mm)	
	Back Casters	2 x Swivel (100 x 27mm)	
	Tubular Handle	Mild steel chrome plated	
	Storage Basket	Mild steel (black powder coated)	
Boiler	Wattage	3000w (2000 + 1000)	
	Type	Stainless Steel	
	Continuous Fill	Yes	
	Steam Pressure	8 Bar	
	Steam Temperature in boiler	170°C	
	Steam Control	Variable	
Vacuum	Type	Integral	
	Motor	850w	
	Filtration	Motor Exhaust Filter Sheet	
Electrical	Voltage	230v – single phase	
	Voltage in Gun Handle	12v	
	Machine Cord Length	10m	
Capacities	Boiler	3.3 Litres	
	Cold Water Refill Tank	5 Litres (easy fill)	
	Vacuum Collection Tank	12 Litres	
	Chemical Tank	2.5 Litres (easy fill)	
	Weight	50kg	
User Information	Vacuum On	LED	
	Heater On	LED	
	Steam Ready	LED	
	Cold Water Refill	LED & Alarm	
	Collection Tank Full	Shut off Float	
Accessories	Hose with Gun Handle	1 x 4m in length	
	Floor Nozzle	1 x 300mm	
	Floor Nozzle Inserts	3 x 300mm (squeegee, carpet & brush)	
	Upholstery Tool	1 x 100mm	
	Extension Tubes	2 x 440mm each	
	Window Squeegee	1 x 250mm	
	Steam Lance Long	1	
	Steam Lance Short	1	
	Brass Detail Cleaning Brush	5	
	Nylon Detail Cleaning Brush	5	
	Nozzle for clip on attachments	1 x 150mm	
	Clip on attachments for Nozzle	2 x 150mm (1 x squeegee & 1 x brush)	