

FreciousCare



Among Asian cities facing air pollution, **Top 4 are in India**

Severe Air Pollution Is Suffocating India

Annual average PM2.5 in **Delhi is 3X that of Beijing**

a – World Health Organization, 2014



Rapid Urbanization

Irresponsible Industrialization



Formaldehyde

Major Sources Of Air Pollution Are Around Us

Explosive Transportation Growth

Volatile Organic Chemicals

Harmful production materials

Microorganisms

Average pollution levels on roads in Delhi up to 8 TIMES HIGHER than urban background readings

The Worst Air Pollution Is On The Roads

In-vehicle pollution in Delhi is up to 30 TIMES HIGHER than other measured megacities

Source – Delhi IIT and UC Berkeley, 2014

Heart diseases

Respiratory problems

Nervous and immunity systems failures

Nasal Cancer Lung Cancer Liver Cancer

Air Pollution Kills You Gradually ... But Eventually

Every year In India due to air pollution, >700,000 people die prematurely

Source – Lancet Report, 2014

I am not afraid to die I just do not wish to be living like this



Filtration Leader With 75 Years Of History German Technology, German Quality



FreciousCare FC 301



"Performance That Cares"



Clean Air Delivery Rate **4X Higher**





6

Formaldehyde Removal >99%



Protection vs. Multiple Pollutants



Silent Mode for Quiet Comfort





Superior Clean Air Delivery Rate* (25.5 m³/h)

Up to 4X better than the average car purifier



*CADR is a measure of an air purifier's pollutant filtration efficiency. The higher the CADR, the better it cleans the air.



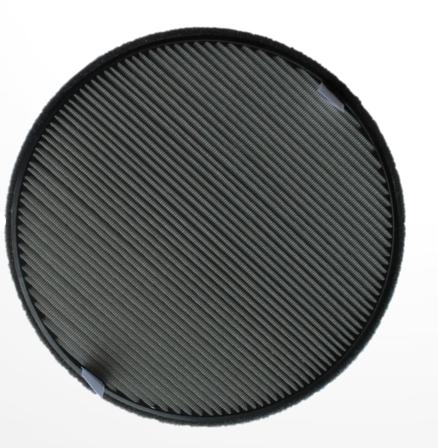
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HEVA* Technology Delivers High PM2.5 Filtration

>99% removed in 10 minutes** Healthy Air in 2 minutes^

*HEVA is M+H's unique HEPA-VOCs Arrestance Filter. Filter to be replaced every 6-9 months.

**Tested by Shanghai Institute of Measurement & Testing Technology (SIMT) ^More than 60% PM2.5 particles removed







HEVA* Technology Removes Formaldehyde Effectively >99% eliminated in 60 minutes**

*HEVA is M+H's unique HEPA-VOCs Arrestance Filter. Filter to be replaced every 6-9 months.

**Tested by Shanghai Institute of Measurement & Testing Technology (SIMT)

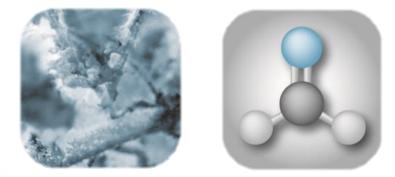




Protection Vs. Multiple Pollutants

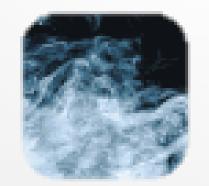
- PM2.5
- Formaldehyde
- Volatile Organic Chemicals (VOCs)
- Microorganisms
- Cigarette smoke
- Odors















Integrated Air Quality Sensor

Enable active monitoring of air quality in the car









Silent Mode

40 dB in low speed operation for quiet comfort like in a library*



*Source - "Noise Sources & Their Effects", Department of Chemistry, Purdue University, USA





- Front-seat armrest
- Back-seat armrest
- Under passenger seat







Exquisite Packaging

- **Designed by renowned** German firm
- Directed at consumers' purchasing desires





Why Filtration-Based Technology?



Safe technology that does not cause secondary pollution

Anion & Plasma Technology

- X
- Limited effect on PM2.5
- Easy to generate ozone which is harmful to health
- Potential interference with car electronics

Electrostatic Technology

- Limited effect on harmful chemicals
 - Short lifetime
 - Easy to generate ozone which is harmful to health



Photo-catalyst Technology

- Limited effect on PM2.5
 - Short lifetime
 - Easy to generate ozone, UV radiation and hydroxyl radicals which are harmful to health



Car Purifier vis-à-vis Cabin Air Filter

PM2.5 CAF is best defense vs. PM2.5, but a Car Purifier can

- ✓ Be used in all cars without limitations (e.g. car HVAC system limits)
- ✓ Deal effectively with interior-generated gas pollutants
- \checkmark Accelerate the cleaning of air when used together with a good CAF
- ✓ Allow consumer to use and maintain with ease and flexibility

✓ Provide additional useful functions, e.g. smart air quality detection



Automobile Air Purifiers Comparison

Brand (Model)	CADR (m ³ /h)	PM2.5 removal efficiency (30 min)	Formaldehyde removal efficiency (60 min)	Time to remove 50% PM _{2.5} in car	Power	Purification Efficiency (CADR/Power)	Weight
European Brand (Model 1)	7	99.9%	88%	15 min	ЗW	2.3	700 g
Chinese Brand (Model 1)	<25	>99%	95%	-	8W	<3.1	1,000 g
Japanese Brand (Model 1)	-	-	_	-	2W	-	340 g
Japanese Brand (Model 2)	<30	>99%	>72%	-	5W	<6	1,100g
MANN-FILTER (FC 301)	25.5	>99 (in 10 min)	>99% (in 60 min)	2 min (>60%)	5W	5.1	1,000 g

MANN-FILTER Offers Superior Performance And Value



Technical Specifications

Product description

Technology	Automotive air purifier with filtration-based technology
Name	FreciousCare FC 301

Noise level 40 (silent mode) – 55 (high mode) dB

Air quality sensor Automatic detection with 3 levels of indication.

Automatic On/Off Yes

Filter type/s • FC 301 H (HEVA filter)

Speed settings 3 speeds

Power 5 W

Voltage 12 V

Filter Lifetime 6 - 9 months

Accessories included

12 V power cable

Installation accessories

- 4 m length
- Strap with buckle

Hook and loop fasteners

Weight and dimensions						
Product dimensions	210 x 80 mm					
(diameter x height)						

Product weight

1,000 g



Warranty & Service Information

- 12 months warranty from date of purchase
- Consumer to bring product back to original shop/distributor
- Shop/distributor to send product to M+H
- M+H would evaluate on either minor repairs or full exchange (1-1 depending on situation)
- Product must have been used in accordance to operating manual. Original receipt and respective registration of warranty should have been done in order for warranty to be valid
- Purchase of replacement filter elements is provided through official sales channels



FreciousCare

