

# Air Vacuum Mat Vacuum Strongly Fine-Dust

World First & Only 'Cell Type', Vacuum Mat for Shoes Sole



*Step on & go*

# Purpose to use Air Vacuum Mat

The main purpose to use Air Vacuum Mat is to establish the profitable indoor environment for the human body ultimately, improving indoor environment condition by reducing labor, expense and maintaining indoor clean air/floor, vacuuming contaminants, fine dust on the shoes sole strongly, using Air Vacuum Mat, shoes sole cleaner, innovated by Dae Shin M/C corp.,.

# New Paradigm : Shoes Sole Cleaner : Air Vacuum Mat

“World’s First & NO.1 – Cell Type” , Strong Vacuum Fine-Dust



# Air Vacuum Mat – Shoes Sole Cleaner Spec. (Customized size available-Cell.)



DS-104N-23

DS-104N-23			
Spec.		Filter	Consumables
Power	220V 60Hz	1 <sup>st</sup>	3rd filter 4th filter(0.3μm) (Replacement: Once a month)
Power Consumption	1350W	2 <sup>nd</sup>	
Size (Dust Collector)mm	587*300*925	3 <sup>rd</sup>	
Size (Vacuum Mat)mm	1200*700*43	4 <sup>th</sup>	
Weight(kg)	Dust Collector45 Vacuum Mat 40		



Cell	
Size(mm)	300*300*43
Vacuum Ball(ea)	61

Motor	
ORIFICE D [mm]	40[8 hole]
INPUT W [W]	1192
CURRENT I [A]	5.80
SPEED N [rpm]	21012
VACCUM H [mmH2O]	297
AIR FLOW Q [m3/min]	3.149
SUC. POWER P[W]	152.64
EFF E[%]	12.8

## Strong Points – Cell Type

A.- Cell Type(300x300x43mm) "Installation to whole floor" available.

B.- Broken Ball "Disassemble Cell and exchange Broken Ball" Easily.

C.- 1<sup>st</sup>! 2<sup>nd</sup>! Strong "Perfect Vacuum Fine-Dust "

D.- Cell Type "Perfect Vacuum State"

E. - Cell Inside "in layers boast strong durability"



Cell Type



## Air Vacuum Mat – How to effect



*Just walk through! All contaminants from shoes soles are vacuumed strongly.*

**Air Vacuum Mat Dust Decreasing Effect : "95%" Decreasing!!!**

Standard : Environment Research Test

	Before using Air Vacuum Mat	After using Air Vacuum Mat	Decreasing Rate(%)
0.3 $\mu$ m	9,147,300	3,475,974	62%
0.5 $\mu$ m	3,884,000	1,013,724	73.9%
1.0 $\mu$ m	101,347	19,459	80.8%
5.0 $\mu$ m	1,561	78,	95%
10 $\mu$ m	901	180	80%

## Air Vacuum Mat – Vacuum Test – Inside of Dust Collector



● View : Dust, Fine-Dust are vacuumed strongly into the Dust Collector.

## Dust, Find Dust collected at the inside of Dust Collector





# I 'To reduce the indoor Fine Dust' Installations at the Building Gate I

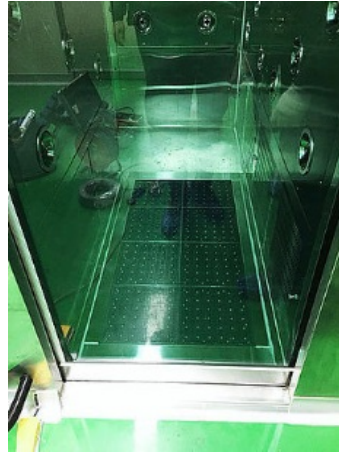
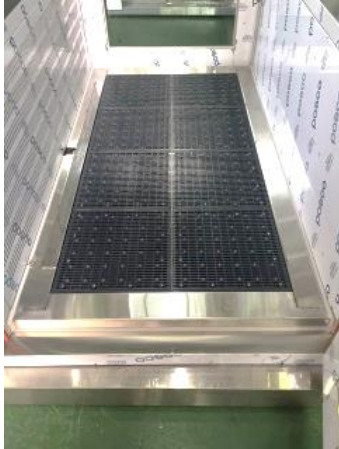




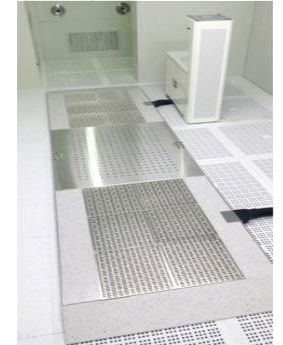
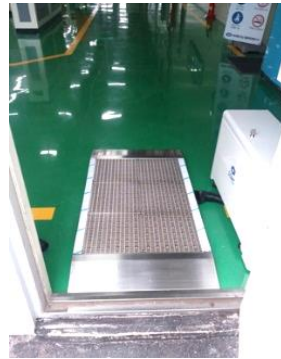
# I 'To reduce contaminants of shoes sole' Installations in front of Air Shower I



# I 'To reduce contaminants of shoes sole' Installations in side of Air Shower I



# I 'To reduce contaminants of shoes sole' Installations Between aisles I





# Air Vacuum Mat – Shoes Sole Cleaner – Patent

## Patent



Dust Vacuum Device



Dust Vacuum Cell

# Air Vacuum Mat – Shoes Sole Cleaner – Certification & Confirmation Form

## Certification & Confirmation Form



CE



Great Invention

**Clean Indoor**

**Maintain Clean Air Condition**

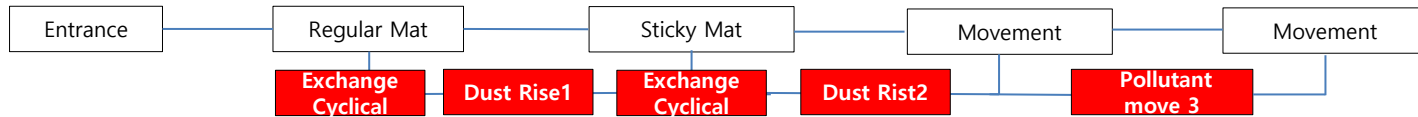
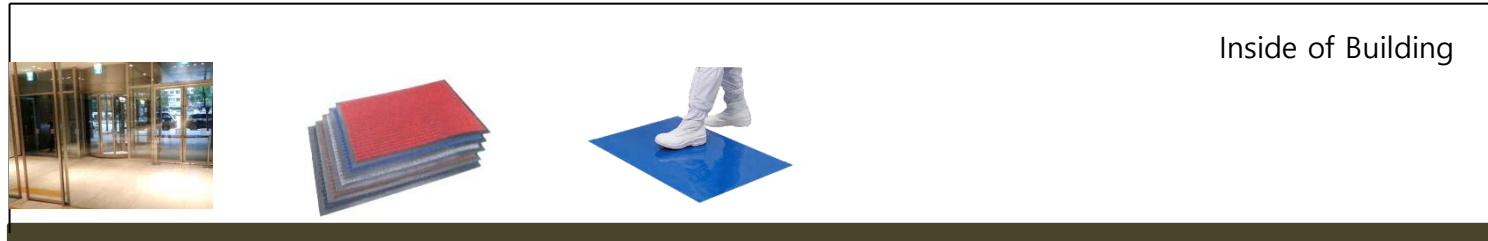
**Reduce Cleaning Expense**





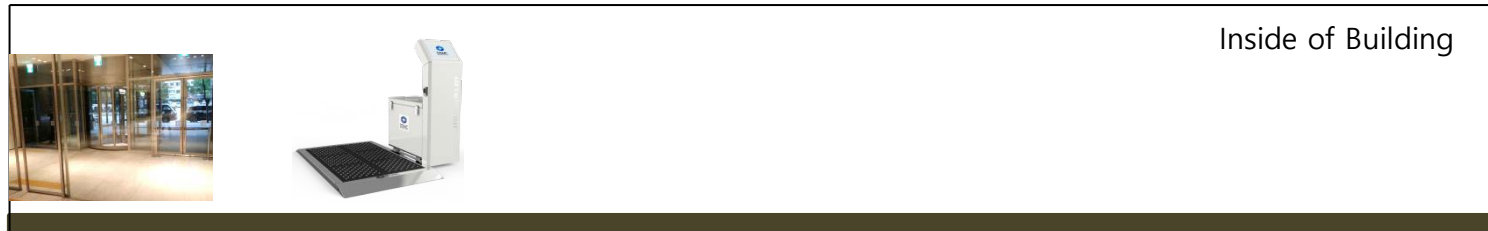
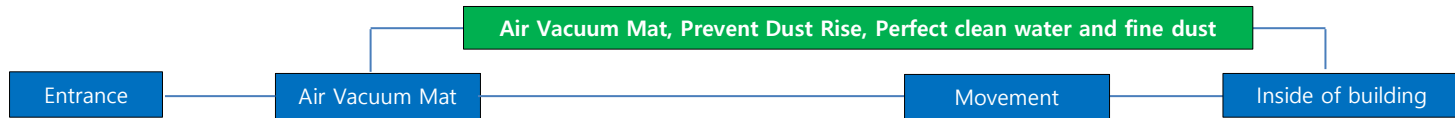
# New Paradigm for Clean Environment : Air Vacuum Mat - Shoes Sole Cleaner

CURRENT -  
NORMAL MAT



Indoor Air Condition ↓ , Cleaning Expense ↑ , Cleaning Labor ↑

AIR VACUUM MAT



Air Vacuum Mat Only, Clean Indoor environment from entrance to interior

= Keep clean air condition, Save expense ↓ , Save Labor ↓

# Save Expense Effect (Air Vacuum Mat vs. Sticky, Regular Mat)

Won=10,000won



420won vs. 186won

**Initial Investment**



**-99%**

27won vs. 1,836won

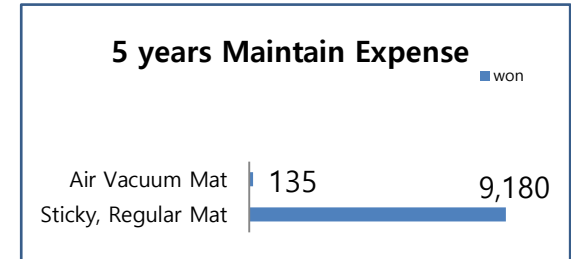
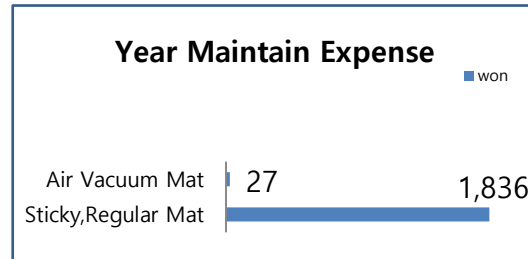
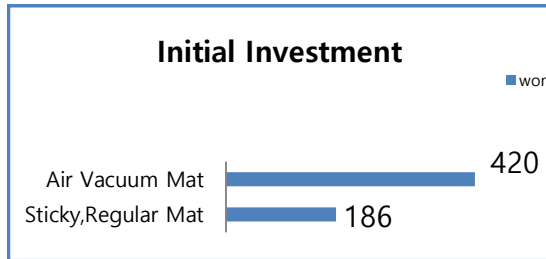
**Year Maintain Expense**



**-495%**

135won vs. 9,180won

**5 years Maintain Expense**



**Initial Investment**

Air Vacuum Mat (1200\*700mm) = 420won  
 Sticky Mat(10ea/1200\*600mm)+ Regular mat(1ea/1150\*1800mm) : (15won\*10ea)+36won = 186won

**Year Maintain Expense**

Air Vacuum Mat Consumable : {filter(20won)+Electricity(0.6won\*12=7won)}=27won  
 Sticky Mat(150won\*12months=1800won)+Regular Mat(36won) = 1836won

Standard : South Korea Factory Facility 1<sup>st</sup> Floor Maintain

# Save Expense Effect (Air Vacuum Mat vs. Cleaning Labor)

Won=10,000won



Year Maintain Expense

## -90.6%

27won vs. 2880won

<Approximate Cost – Air Vacuum Mat : Yearly >

Contents	Cost Expense(won)	Note
Filter	20	Outer Filter 9ea, Total Filter 3ea
Electricity	7	0.6won/month* 12months
<b>Total</b>	<b>27won</b>	<b>Year Cost Expense</b>

<Approximate Cost - Building/Factory Cleaning Labor Expense : Yearly >

Contents	Cost Expense(won)	Note
Cleaning Labor	2880	<Automotive Part Assemble Company Monthly Cleaning Cost Labor> (240won*12months)
<b>Total</b>	<b>2880won</b>	<b>Year Cost Expense</b>

# Clean Indoor

**\*AIR VACUUM MAT\***

**Maintain Clean Air Condition**

**Reduce Cleaning Expense**

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