

N BUSINESS NEWSLETTER

ART+

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Aerosol Research &
Technology Plus

Seoul Metro speeds up to control fine dust (Dailysisa)

High performance air cleaners that can clean ultra fine dust(PM-2.5) are in process of being installed in Seoul subway stations. It is planned to install total of 4,432 (8~16 air cleaners in each stations) by end of this year. 2,040 air cleaners are planned to install in 127 stations by year end. Last June, Seoul Metro completed installation of 840 fine dust measurement instruments in 277 station waiting rooms and subway trains from subway lines 1~8.

Continuous compensations in the facility to improve air quality in subway trains are in the works. Fine dust (PM10) eliminating filters for subway trains are planned to be installed in all trains. New trains are equipped with carbon dioxide detection and automatic ventilation system and air quality improvement system. Existing trains will also be installed in four years starting this year.



Busan Subway & SRT underground stations eliminate fine dust... Extra large capacity air cleaners installed (etnews)



To improve level of air pollution in underground stations, Busan Transportation Corporation and SRT implement extra large capacity air cleaners. They plan to install extra-large capacity air cleaners that can clean minimum 264.463m² to 1123.97m² to maintain highest clean air environment in underground stations. Busan Transportation Corporation will install and operate air cleaners that can clean minimum 264.463m² to 1123.97m² in all underground stations after Korean New Year.

(◀ Easy Rental's Extra Large Capacity Air
Clean Installed in Busan Subway Line 1)



Seven Eleven installs fine dust monitoring sensors (Hankyoreh)

Convenience store, "Seven Eleven" is now capable of monitoring fine dust in real-time. It is expected to install compact (Width 10cm X Height 13cm) monitoring sensors in about 3,000 stores nationwide this year. Plans are in place for collected data from the monitoring sensors to be synchronized with mobile application "Seven Eleven" application for consumers to view.

KD Navien proposes alternative management of indoor air quality (Sbiz Today)

KB Navien releases new air cleaner that functions as both ventilation and air cleaning at the same time. Clean air system can reduce not only fine dust but also radon, formaldehyde, volatile organic compounds (VOCs), carbon dioxide, and others than can only be eliminated by ventilation.

It uses prefilter, electrical particulate filter, deodorization filter, and ultra-fine particulate filter. It manages fine dust in all living areas through ceiling air outlets eliminating need for air cleaners in each living spaces. Another advantage is that it can be installed by replacing existing ventilation system for efficient use of space.

However, there are some limitations to the installation. KB Navien's newly released clean air system can only be installed in apartments built after 2006 where heat exchanger type ventilation system with air outlets is installed. Separate ventilation facility is required to install Airone clean ventilation system for apartments built without ventilation systems.



Xiaomi air cleaner filter replacement cost most expensive (The Korea Economic Daily)

Korea Consumer Agency announces research results of air cleaner samples in the market.

Filter replacement cost was least expensive for Winia and most expensive for Xiaomi. For electricity, Cuckoo was least expensive and Samsung was most expensive. For gas deodorization capacity, Samsung, Xiaomi, Coway, and LG showed top performance. When air cleaner was operated in maximum capacity, Samsung, Sharp, Winia, Winix, Coway, Cuckoo, and LG were relatively quiet. Korea Consumer Agency plans to continuously provide information that compares safety performance and quality of daily use products.

品牌	型号	年维修费用		推荐交换周期 (个月)
		能源费用 (韩元/年)	过滤交换费用 (韩元/年) *	
Samsung	AX40R3030WMD	17,000	51,000	6~12
Xiaomi	AC-M4-AA	12,000	110,000	3~6
Sharp	FP-J40K-W	12,000	**	
Winia	EPA10COXEW	11,000	35,000	1~16
Winix	AZSE430-IWK	12,000	57,000	6~12
Coway	AP-1019E	14,000	84,000	12
Cuckoo	AC-12XP20FH	9,000	59,000	12
LG	AS122VDS	12,000	59,000	12
SK Magic	ACL-120ZOSKGR	15,000	50,000	12

*Cost of replacement for once per year (except, Xiaomi products replacement cost is twice per year due to its short replacement period), filter unit cost is based on 2019 August authorized seller and may vary depending on the purchase date

**Sharp(FP-J40K-W) states in its user manual that replacement period is 10 years and filter cost is 90,000 won