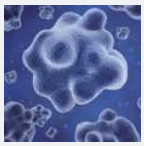
AIR QUALITY

Plasma Quad Plus

Plasma Quad Plus is a plasma-based filter system that effectively removes six kinds of air pollutants. Plasma Quad Plus captures mold and allergens more effectively than Plasma Quad. It can also capture PM2.5 and particles smaller than 2.5μm, creating healthy living spaces for all.

Bacteria



<LN series>
Neutralizes 99% of Staphylococcus aureus in 162 minutes in a 25 m^3 test space.
Test No.2016-0118
tested by KRCES-Bio.

<AY series>
Neutralizes 99% of Staphylococcus aureus in 186 minutes in a 25 m^3 test space.
Test No.22046475001-0301
tested by KRCES-Bio.

Viruses



<LN series>
Neutralized 99.8% of SARS-CoV-2 in 360 minutes.*1
Test No.20KB070569
tested by Japan Textile Products Quality and Technology Center
Neutralizes 99% of Influenza A virus particles in 72minutes in a 25 m^3 test space.
Test No.28-002
tested by vrc.center, SMC

<AY series>
Neutralized 99.8% of SARS-CoV-2 in 360 minutes.*1
Test No.20KB070569
tested by Japan Textile Products Quality and Technology Center
Neutralizes 99% of Influenza A virus particles in 210.5minutes in a 25 m^3 test space.
Test No. R4-001
tested by National Hospital Organization Sendai Medical Center

Molds



<LN series>
Neutralizes 99% of Penicillium citrinum in 135 minutes in a 25 m^3 test space.
Test No. 16069353001-0201
tested by Japan Food Research Laboratories

<AY series>
Neutralizes 99% of Penicillium citrinum in 251 minutes in a 25 m^3 test space.
Test No.22046475001-0401
tested by Japan Food Research Laboratories

Allergens



<LN series>
Neutralizes 98% of cat fur and pollen.*1
Test No. T1606028
tested by ITEA Inc.

<AY series>
Neutralizes 98% of cat fur and pollen.*1
Test No. T1606028
tested by ITEA Inc.

PM2.5



<LN series>
Neutralizes 90% of PM2.5 particles in 83minutes, 99% of PM2.5 particles in 166minutes in a 28 m^3 test space.
In-Company Investigation

<AY series>
Neutralizes 90% of PM2.5 particles in 189 minutes, 99% of PM2.5 particles in 378 minutes in a 28 m^3 test space.
Test No. LSRL 21010 F105
tested by Life Science Research Laboratory (Japan)

Dust

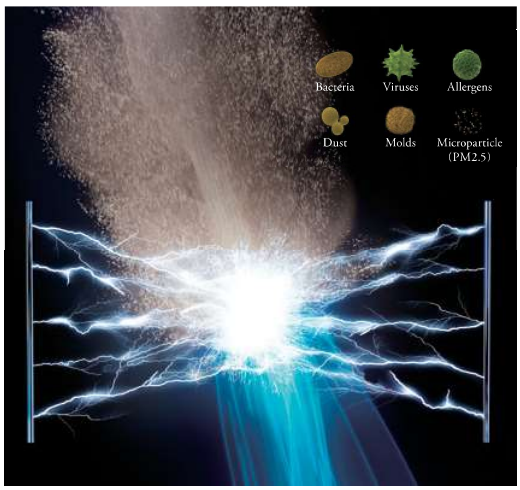


<LN series>
Neutralizes 99.7% of dust and mites.*1
Test No.T1606028
tested by ITEA Inc.

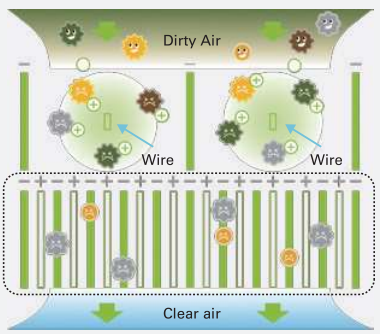
<AY series>
Neutralizes 99.7% of dust and mites.*1
Test No.T1606028
tested by ITEA Inc.

*1 The test was conducted on the Plasma Quad Plus device alone, not designed to evaluate product performance so LN and AY series have the same result.

Image of Plasma Quad Plus



Principle of Plasma Quad Plus



Dust, PM2.5
Viruses
Bacteria
Mold
Allergens

1st stage
- Make plasma.
- Break mold and allergens. Inhibit viruses.
- Dust and PM2.5 given an electrical charge (+).

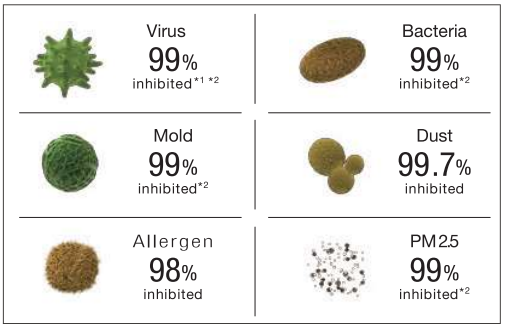
2nd stage
- Make a strong electrical field.
- The charged dust and PM2.5 (+) are absorbed in the strong electrical field (–).

Hi-performance Plasma Filtration System

Plasma Quad Connect (Optional Parts)

Plasma Quad Connect is an high-performance air purifying device which can even be installed on the existing units, contributing to a better air quality in your room. Plasma Quad Connect applies a voltage of 6,000 volts to the electrode to generate plasma, effectively removing various kinds of particles such as viruses, bacteria, molds, allergens, dust, and PM2.5.





*1 The result of test with Influenza A virus.
*2 The result is based on the test with a device installed on the representative indoor unit. (MSZ-AP series)

Specifications

Model Name	MAC-100FT-E	PAC-HA11PAR, PAC-HA31PAR PAC-HA21PAU, PAC-HA31PAU (Attachment for Ducted Indoor Units) *1, *3	PAC-KE91PTB-E, PAC-KE92PTB-E PAC-KE93PTB-E, PAC-KE94PTB-E PAC-KE95PTB-E (Box for Ducted Indoor Units) *1, *3	PAC-SK51FT-E *4	SLP-2FAP, SLP-2FALP SLP-2FALMP2
Product Image					
Compatible with	MSZ, PKA, and PKFY*2 (Wall mounted models)	SEZ, PEAD, and PEFY*2	PEAD, and PEFY*2	PLA and PLFY*2 (4-way Cassette 3×3 models)	SLZ, and PLFY*2 (2×2 Cassette)
Input Voltage	Single Phase AC220~240V	—	—	Single Phase AC220~240V	Single Phase AC220~240V
Fequency	50/60Hz	—	—	50/60Hz	50/60Hz
Power Consumption	4W	—	—	4W	4W
Size H×W×D	56mm×499.5mm×168mm	—*6	247mm×917mm×179mm*7	134mm×840mm×840mm	20mm×625mm×625mm
Weight	1,600g	360g*6	4,570g*7	8,700g	4,400g

*1 Both MAC-100FT-E and PQ Attachment or PQ box will be required when using with ducted models. *2 Please contact your nearest sales office about compatible model. *3 Specifications are subject to change without notice.
*4 When multi-functional casement or automatic filter elevation panel is used/installed, PAC-SK51FT-E can not be used. *5 The image shows rear suction. *6 Depends on model. Shows weight of PAC-HA11PAR.
*7 Depends on model. Shows size/weight of PAC-KE92PTB-E. *8 Plasma Quad Connect cannot be used with PAC-SK54/46KF-E (V blocking filter).

Test Report Results

Following test results were conducted under controlled laboratory conditions. Performance might differ in real life environment.

Tested Materials		Tested Standard	Capacity	Time	Result	Testing Organization	Test Report
Virus	New Coronavirus (SARS-CoV-2)	Original	—*8	360min	99.8% inhibited*9	Japan Textile Products Quality and Technology Center	20KB070569
	Influenza A	JEM1467	25m³	175min	99% inhibited*10	SMC Virus Research Center Japan (JAPAN)	R2-003
Bacteria	Staphylococcus Aureus	GB21551.6-2010	30m³	335min	99% inhibited*10	CHEARI (Beijing) Certification & Testing Co., Ltd.	WK-21-50161
Mold	Penicillium Citrinum	JEM1467	25m³	160min	99% inhibited*10	Life Science Research Laboratory (JAPAN)	LSRL-51021E-E091
Allergen	Cat Fur and Pollen	Original	—*8	—	98% inhibited*11	Institute of Tokyo Environmental Allergy (JAPAN)	No.T1606028
Dust	Dust and Mites	Original	—*8	—	99.7% inhibited*11	Institute of Tokyo Environmental Allergy (JAPAN)	No.T1606028
PM2.5	Cigarette smoke	JEM1467	25m³	300min	99% inhibited*10	Life Science Research Laboratory (JAPAN)	SRL-21010E-E091

*8 The test was conducted on the Plasma Quad device alone, not designed to evaluate product performance. *9 The result without the effect of natural attenuation is 96.3%.
*10 The result is based on the test with a device installed on the representative indoor unit.(MSZ-AP series) *11 It shows the result when allergen and dust pass through the device once.