

The Test of Ion Number with AIOII

2012. 8. 2.
Oasis Lab

1. Test purpose : This test is to count the ion number of AIOII based on distance between AIOII and Ion meter.
2. Test Condition : We installed AIOII with 60 cmh fan and we used Ion Meter ITC-201A from Andes, Japan. We checked minus ion number without fan and with fan based on 3cm to 200cm distance. We tested in a normal conference room with the size of 4m x 6m x 2.5m. The temperature was 25 C and humidity was 45%.
3. Test Result : The result is as below : (Ion number : units/cm³)

Distance	Minus Ion No. (With 60cmh Fan)	Minus Ion No. (With 60cmh Fan & flexible duct from 50cm away)	Plus Ion No. (With 60cmh Fan)	Plus Ion No. (With 60cmh Fan & flexible duct from 50cm away)
3cm	913,000	N.A.	> 1,200,000	N.A.
50m	229,000	773,000	309,000	1,011,000
100cm	113,900	415,000	191,000	651,000
150cm	72,800	263,000	127,200	533,000
200cm	50,900	209,000	72,500	402,000



913,000 sets/cm³ (3cm away with 60 cmh fan)



Length of catalog : 25cm



229,000 sets/cm³ (50cm away with 60cmh fan)



773,000 sets/cm³
(50cm away with 60cmh fan and flexible duct)



-
ion

113,900 sets/cm³
(100cm away with 60 cmh fan)



-
ion

415,000 sets/cm³
(100cm away with 60cmh fan and flexible duct)



-
ion

72,800 sets/cm³
(150cm away with 60cmh fan)



-
ion

263,000 sets/cm³
(150cm away with 60cmh fan and flexible duct)



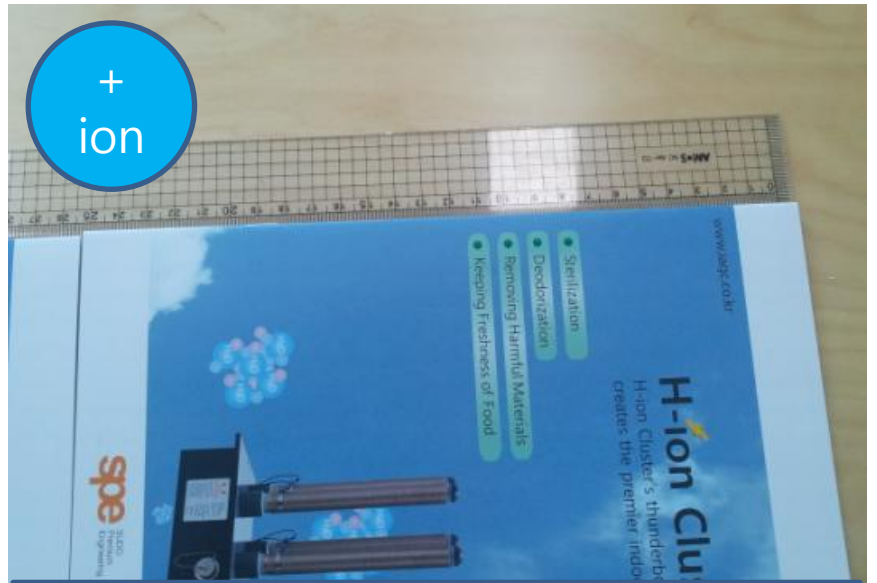
50,900 sets/cm³
(200cm away with 60 cmh fan)



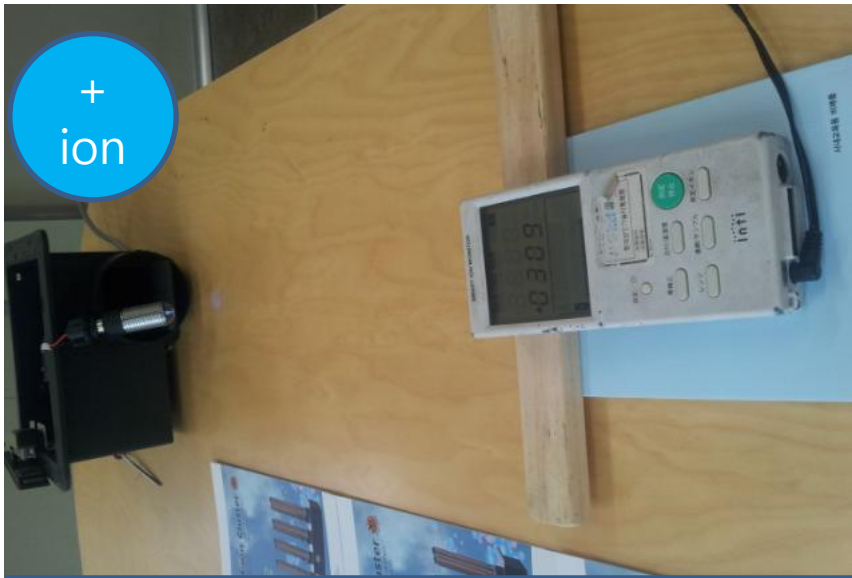
209,000 sets/cm³
(200cm away with 60cmh fan and flexible duct)



More than 1,200,000 sets/cm³
(3cm away with 60 cmh fan)



Length of catalog : 25cm



309,000 sets/cm³
(50cm away with 60cmh fan)



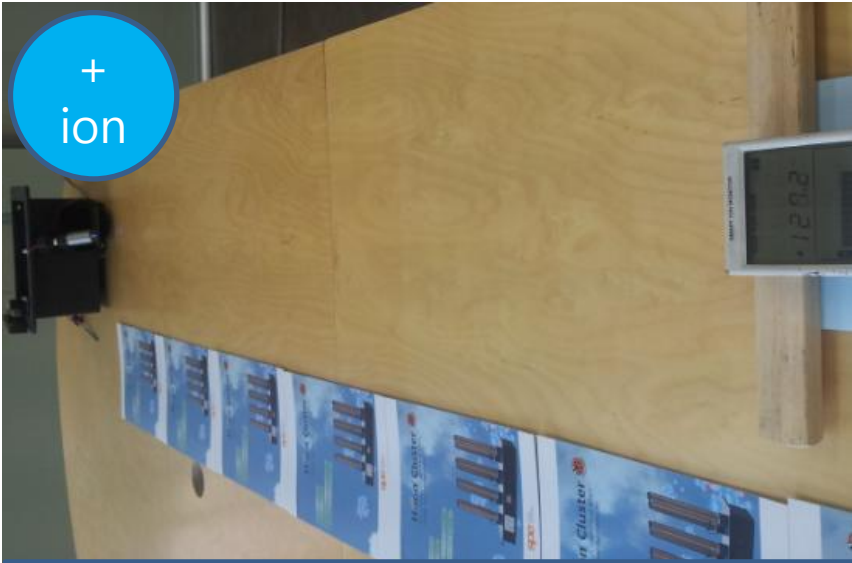
1,011,000 sets/cm³
(50cm away with 60cmh fan and flexible duct)



191,900 sets/cm³
(100cm away with fan)



651,000 sets/cm³
(100cm away with 60cmh fan and flexible duct)



127,200 sets/cm³
(150cm away with 60cmh fan)



533,000 sets/cm³
(150cm away with 60cmh fan and flexible duct)



72,500 sets/cm³
(200cm away with 60 cmh fan)



402,000 sets/cm³
(200cm away with 60mh fan and flexible duct)