Test REPORT

Tested By	Head of R&D Center

Report Number	180604-01	Operated by	R&D Center	Retention Period	-
Number of Page	3	Date of Test	2018.06.04	Tested By	Park Jeongin
제 목	RPC(Omni Power) Collection Efficiency Test Report				
관련기술보고					

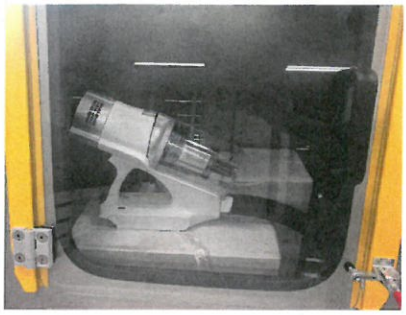
1. Use of Report : Performance Test
2. Review Point
   2-1) Teast Sample : RPC(Omni Power) Main Body
   2-2) Test Condition
   - Suction Mode: Turbo Mode
   - Test Machine : Topas Dust Emmision tester
   - Dust Type : ISO A2 FINE
3. Test Result

Test Sample	Collection Efficiency (%) Particle Sie : 0.5~5.0 μm	비고
RPC(Omni Power)	99.99166	

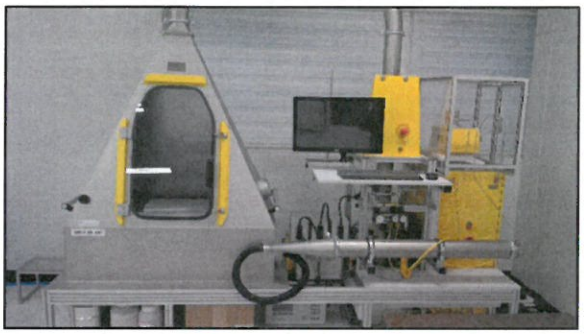
◆ Collection Efficiency Test

-Test Machine : DUST EMISSION TESTER

-Test Sample : RPC(Omni Power) Sample



[RPC(Omni Power Sample]



[DUST EMISSION TESTER]

◆ Test Method

1) Fix the Dust input Jig to test sample.

2) Check the dust box filter and Micro HEPA filter inside test sample

3) Fix the DUST EMISSION TESTER to test sample.

4) Put a certain amount of dust to the DUST EMISSION TESTER(ISO A2 FINE).

5) Operate the Dust Emission Tester.

◆ Test Result

Reset

TOPAS

Test Filtration Efficiency acc. to IEC 60312-1; A5.11

Test Identification

Operator:	op	Date:	2018-01-06
File name:	Untitled	Time:	오후 3:49:26
Particle counter:	LAP340	Ambient pressure	101.5kPa
Dilution:	1: 10000 / 1:10	Ambient temp.:	25.4°C
Test voltage:	104 VAC 50Hz	Relative humidity:	44.6%
Comment:			

Test Device

Type:	RPC DVT #3	SN:	
Manufacturer:	180601	Device data:	
State:		Acc. to type plate:	
Filter equipment			
Dust bag:		Manufacturer:	
Motor protection:		Manufacturer:	
Exhaust filter:		Manufacturer:	

Test Results

Volumetric air flow	*17.2l/s*	l / s	**DRC**	***99.99166***
Dust type	ISO A2 FINE		calculated values for particle size range dMIN - dMAX	
Dust feed	*2.064g*	g in 10 min	d_{MIN}	d MIN 0.5 µm
Dust concentration	*200mg/m³*	mg / m³	d_{MAX}	d MAX 5.0 µm

Individual test data

Test phase	Start time [hh:mm:ss]	Duration [hh:mm:ss]	DRc [%]	Q [l/s]	$T_{EXHAUST}$ [°C]
Background	*15:50:36*	*0:02:04*		*17.2*	*28.3*
Conditioning	*15:53:10*	*0:09:39*		*14.5*	*31.5*
Measurement	*16:03:20*	*0:09:29*	*99.99166*	*14.5*	*31.5*

statistic values measurement

Particle registration and evaluation					DRC-values
adjusted size ranges		geometric diameter	statistic evaluated particle sums for 5 individual test runs		for statistical evaluated particle sums
d_{CLASS_MIN}	d_{CLASS_MAX}	d_{GEO}	intake air	exhaust air	
[µm]	[µm]	[µm]	[#]	[#]	[%]
0.3	0.4	0.3	1699351025	456308	99.97323
0.4	0.5	0.4	890153016	176827	99.98019
0.5	0.6	0.5	657325636	101819	99.98455
0.6	1.0	0.8	1044964883	119453	99.98860
1.0	1.3	1.1	359126419	29363	99.99185
1.3	2.0	1.6	405852174	24817	99.99390
2.0	2.5	2.2	138573454	6844	99.99508
2.5	3.0	2.7	73500329	2990	99.99594
			5268846936	918421	