LAGUNA

HEPA CERTIFICATION

CERTIFIED ON JUNE 6. 2016 BY TTRI

FILTER TESTING REPORT

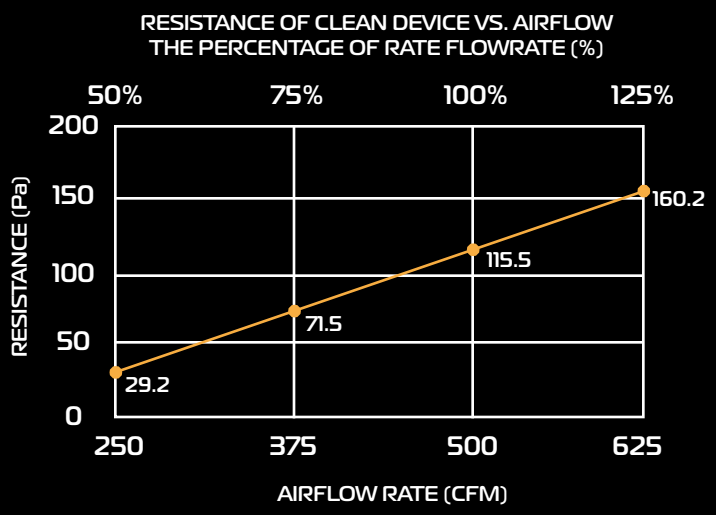
- FILTER NAME : HEPA CARTRIDGE FILTER
- FILTER NUMBER : 350 x 660 HEPA CARTRIDGE
- FILTER AREA : 10.2 m^2
- FILTER PLEAT : 162
- MEDIA MATERIAL : SYNTHETIC FIBER
- MEDIA COLOR : GRAY

TEST CONDITIONS

- TEST METHOD : ASHRAE 52.2:2012
- VOLUME AIRFLOW RATE : 500 CFM
- TEMPERATURE : 25±2˚C
- HUMIDITY : 45±5%
- AEROSOL TYPE : KCI

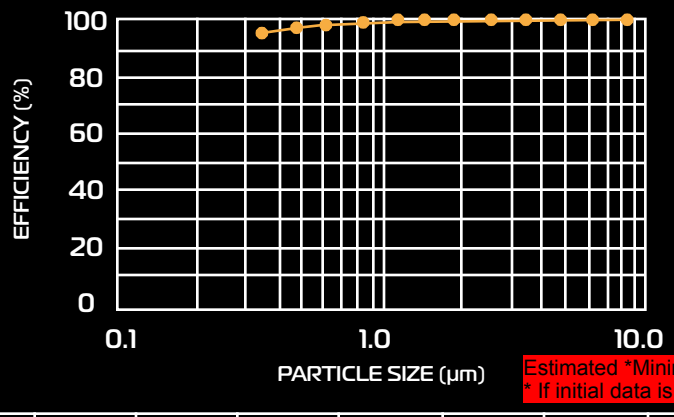
TEST SAMPLE

MEASUREMENT OF PRESSURE DROP VS, AIRFLOW



AIRFLOW RATE IN % OF RATED AIRFLOW	AIRFLOW RATE		RESISTANCE	
	CFM	CMH	Pa	in. H_2O
50%	250	425	29.2	0.12
75%	375	638	71.5	0.29
100%	500	850	115.5	0.46
125%	625	1063	160.2	0.64

INITIAL EFFECIENCY



E1 = 98.7% (0.3 ~ 1.0 μm)

E2 = 100.0% (1.0 ~ 3.0 μm)

E3 = 100.0% (3.0 ~ 10.0 μm)

Initial : 115.5 Pa

Estimated *Minimum efficiency reporting value (MERV) MERV 16 @ 500CFM
* If initial data is minimum

PARTICLE SIZE (μm)	0.3 ~ 0.4	0.4 ~ 0.5	0.5 ~ 0.7	0.7 ~ 1.0	1.0 ~ 1.3	1.3 ~ 1.6	1.6 ~ 2.2	2.2 ~ 3.0	0.3 ~ 0.4	4.0 ~ 5.5	5.5 ~ 7.0	7.0 ~ 10.0
ELECTRIC MEAN PARTICLE SIZE (μm)	0.35	0.45	0.59	0.84	1.14	1.44	1.88	2.57	3.46	4.69	6.20	8.37
INITIAL 115.5 Pa	96.7	98.5	99.6	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0