

Tongji University Heating Ventilation and Air Conditioning Laboratory

Testing date: Feb. 16, 2011

Item tested: ESCair Central air condition unit. Size 600 mm x 600 mm

Test purpose: Air volume resistance performance test of central air-conditioning and air purification equipment

Model No. : ESCair filter KJX-Z **Now called ECH-KJX-Z**

Test conditions: Testing facility temperature 12 degrees Celsius, relative humidity 76%, atmospheric pressure 102.31 kPa

Testing Equipment

Serial #:	Testing instrument Model	Unit used	Measuring Range	Instrument Accuracy
1	VAISLA HM34 Digital temperature and humidity meter	1	-35° C - 90° C 95% RH	0- $\pm 0.1^{\circ}\text{C}$ - /+1.0%
2	YYT-2000B Inclined tube pressure gauge	2	0 - 2000 Pa	Grade 0.5
3	Nozzle flowmeter D=130 mm	4	716-1672 M3/h	Standard
4	Nozzle flowmeter D=40 mm	1	68-158 M3/h	Standard

Test results of initial resistance of air purification and disinfection device

Testing #	Air Volume (M3/h)	Wind Speed (M/S)	Initial Resistance (Pa)
1	400	0.3	1.5
2	700	0.6	2.3
3	1000	0.8	3.3
4	1500	1.3	5
5	2000	1.7	7.2
6	2500	2.1	9.3
7	3000	2.5	12.5
8	3400	2.8	15.3
9	4000	3.3	20.6
10	4500	3.8	26.5

Translated by ESCair USA, Inc.

Feb. 2, 2022