IQAir®

Certificate of Performance

IQAir® Model:

HealthPro 250

Shell No.:

1	B	C	E	A	0	0	0	0

Testing carried out by:

Signed: _____

Testing & QC Dept.

Test Voltage/Frequency:

230V, 50Hz

Serial No.:

This certifies that the aforementioned air cleaning system has been tested prior to packaging at the IQAir® production facility in Switzerland. This particular system has been found to be in compliance with the model's published specifications for air delivery and particle filtration efficiency. This system has also passed the particle leakage test.

I. Air Delivery Rate

The aforementioned system has been tested for its air delivery at all fan speed settings. Due to component tolerances, a divergence of 10 % + 10 m³/h is deemed acceptable.

Note:
The air delivery rate refers to the system's initial air delivery, which will decrease as filters load up with dust particles.

	Published Air Delivery		Actual Air Delivery	
Speed 1:	50	m³/h	Speed 1:	m³/h
Speed 2:	100	m³/h	Speed 2:	m³/h
Speed 3:	170	m³/h	Speed 3:	m³/h
Speed 4:	240	m³/h	Speed 4:	m³/h
Speed 5:	310	m³/h	Speed 5:	m³/h
Speed 6:	440	m³/h	Speed 6:	m³/h

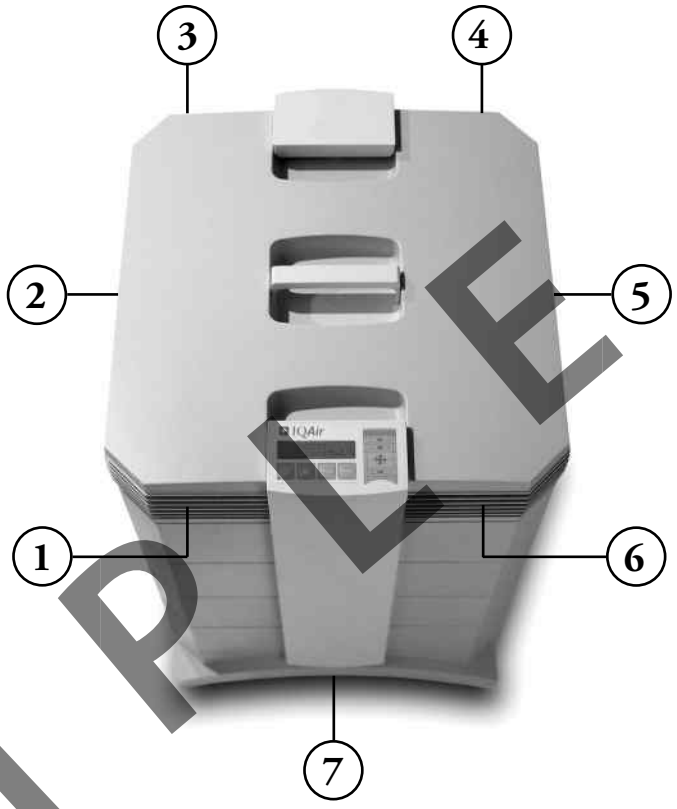
m³/h = cubic meters per hour
1 m³/h = 0,59 cfm

II. Particle Filtration Efficiency & Leakage Test

1. Measurement Procedure

The system has been tested for its filtration efficiency for atmospheric particles in the size range 0.3 micron (µm) and larger. The removal efficiency is determined by measuring the particle concentration at the air intake and at the outlet of the system. The outlet air is sampled at six points to identify possible areas of leakage. The measurements were carried out at the highest fan speed (speed 6). Since filters are more efficient at lower airflow rates, the system's particle filtration efficiency will be higher at lower fan speeds.

2. Measurement Points



3. Results

A. Outlet Concentration

1		ppl
2		ppl
3		ppl
4		ppl
5		ppl
6		ppl
Average outlet concentration		ppl

B. Intake Concentration

7		ppl

ppl = particles per liter (1 liter = 0.001 m^3)

C. Published Efficiency*

99.97 %

D. Actual Efficiency*

. %

*Efficiency relates to atmospheric particles in the size range 0.3 µm and larger.

How filter efficiency is calculated:

$$\text{Efficiency (\%)} = \left(1-\left(\frac{\text{Particle count at air outlet}}{\text{Particle count at air intake}}\right)\right) \times 100$$

Measuring instrument: Laser Particle Counter