

Influence of a portable air treatment unit on health-related quality indicators of indoor air in a classroom

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Table S1 shows the technical specifications of the portable air treatment unit (PATU) that was studied in a class room.

Table S1: Technical specifications of the PATU (Source: Nikken®, Irvine, California, USA).

Type	Air Wellness™ Power5 Pro™
Technology	Filtration, absorption and ionisation (negative ions)
Filters	Woven pre-filter (32 x 32 yarns/inch)
	Antibacterial/antiviral filter
	Activated coal (Ø 3.0 mm with specific surface of 1 100 ± 200 m ² /g)
	High efficiency (‘HEPA’) filter
Range	36 m ²
Capacity	Stand by setting: 0.9 m ³ /min
	Setting 1: 1.6 m ³ /min
	Setting 2: 2.5 m ³ /min)
	Setting 3: 3.3 m ³ /min
	Setting 4: 3.9 m ³ /min
	Turbo setting: 5.6 m ³ /min
Clean air delivery rate (CADR) ^a	198.92 cfm (338 m ³ /h) at highest (Turbo) setting
O ₃ emission	< 0.001 ppm
Noise production	47 dB (maximum noise production at highest ‘Turbo’ Setting)
Electricity useage	9 Watt (Setting 2)

Dimensions	34 x 59 x 23 cm
Weight	6.8 kg
Materials using (housing)	Polyurethane, polypropylene, acrylamide butadiene styrene (ABS) polymer
Maintenance	Every 6 months (cleaning of pre-filter and sieve, replace other filters)

^a CADR is a measure of the appliance's ability to reduce smoke, dust, and pollen particles in the 0.10-11 µm size range from the air. In ANSI/AHAM AC-1-2006, CADR is defined as 'the rate of contaminant reduction in the test chamber when the unit is turned on, minus the rate of natural decay when the unit is not running, multiplied by the volume of the test chamber as measured in cubic feet' (see www.cadr.org for details).