

## Livsdal AP1 air purifier specifications

### Room size

Up to 150 m<sup>2</sup>/1615 ft<sup>2</sup>

### Power requirements

220-240 V, 50/60 Hz and 110-120 V, 50/60 Hz

### Dimensions

H 82 cm/32 in x W 67 cm/26 in x D 45 cm/18 in

### Weight

Cabinet with wooden shelf: 66 kg/145 lbs

Cabinet with stone shelf: 80 kg/176 lbs

### CADR/meter/dB/Watts

|                                    |    |    |     |     |     |
|------------------------------------|----|----|-----|-----|-----|
| Air delivery cubic meter per hour: | 55 | 85 | 160 | 280 | 490 |
| Sound level dB(L <sub>w</sub> ):   | 25 | 33 | 44  | 50  | 66  |
| Energy consumption watts:          | 8  | 10 | 15  | 21  | 60  |

### CADR/feet/dB/Watts

|                                     |    |    |    |     |     |
|-------------------------------------|----|----|----|-----|-----|
| Air delivery cubic feet per minute: | 32 | 50 | 94 | 164 | 288 |
| Sound level dB(L <sub>w</sub> ):    | 25 | 33 | 44 | 50  | 66  |
| Energy consumption watts:           | 8  | 10 | 15 | 21  | 60  |

### Fan motor

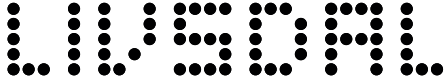
Low profile Mixed-flow fan with sound-absorbent insulation, extremely quiet, fan casing manufactured in plastic material, with a specially designed internal skin to direct the sound waves at the right angle for them to be captured by sound-absorbent material. Brushless EC motor, high efficiency and low consumption, IP44, thermal overload protection. Operates within ambient air temperatures between -20°C/-4°F up to +40°C/104°F.

### Air intake

Back of cabinet.

### Air outlet

Top, front of cabinet under shelf.



## Fan speed settings

Stepless.

## Temperature

40°C/104°F maximum in continuous service.

## Supplied accessories

Power cord with plug, certificate of performance.

## Electrical safety certification

CE marked in accordance with EMC Directive 2014/30/EU and the The Low Voltage Directive (LVD) 2014/35/EU.

## Production site

Certified according to ISO 9001 and ISO 14001

## Design options

Cabinet – Veneer in Black Ash, White Ash or Walnut on MDF board.

Details – All metal parts made of stainless steel.

Shelf – Same wood as the cabinet or white Italian Carrara marble (C-grade), black granite or grey limestone.

## Performance

Hepa Particle filter meet the Eurovent EN1822 classification with the efficiency  $\geq 99.996\%$  for particles of the size  $0.3\ \mu\text{m}$ .

Carbon Molecule filter certified and tested according to ISO 10121.

## The Livsdal 7-filter system

### Filter 1 – Pre-filter

Foam mat.

Filter recycling: plastic

### Filter 2 – Hepa Particle filter

Filter media: Fiber glass

Dimensions: H 61 cm/24 in x W 61 cm/24 in x D 6.6 cm/2.6 in

Effective media:  $9.7\ \text{m}^2/104\ \text{ft}^2$  of Hepa H13 filter

Purpose: control of coarse, fine & ultra-fine dust particles.

Filter recycling: wood

Filter class according to EN 1822: H13

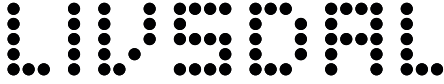
Efficiency according to EN 1822:

MPPS  $\mu\text{m}$ : 0.16

Minimum efficiency: 99.993 %

Specific size  $\mu\text{m}$ : 0.3

Minimum efficiency: 99.996 %



### General filter 3-6 – Four Carbon Molecule filters

- 360 degree geometry and even air distribution ensures maximum possible lifetime.
- Rapid bayonet fitting system and integral dual TPE gaskets.
- Broad spectrum of activated carbon for control of odours, VOCs and ozone. Various impregnated medias for control of difficult gases e.g. nitrogen dioxide, sulfur dioxide etc.
- Total of 11.7 kg/25.8 lbs filter media.
- Filter recycling: plastic

### Carbon Molecule filter 1, CH<sub>2</sub>O

Filter media 3.9 kg/8.6 lbs activated aluminium oxide  
Main purpose is capturing Formaldehyde (VOC).

Also capturing Acetaldehyde, Dimethyl sulfide, Ethylene, Ethyl mercaptan.

### Carbon Molecule filter 2-4, NO<sub>2</sub>, SO<sub>2</sub>, O<sub>3</sub>

Filter media 3 x 2.7kg lbs activated carbon  
Main purpose is capturing nitrogen dioxide, sulfur dioxide and ozone

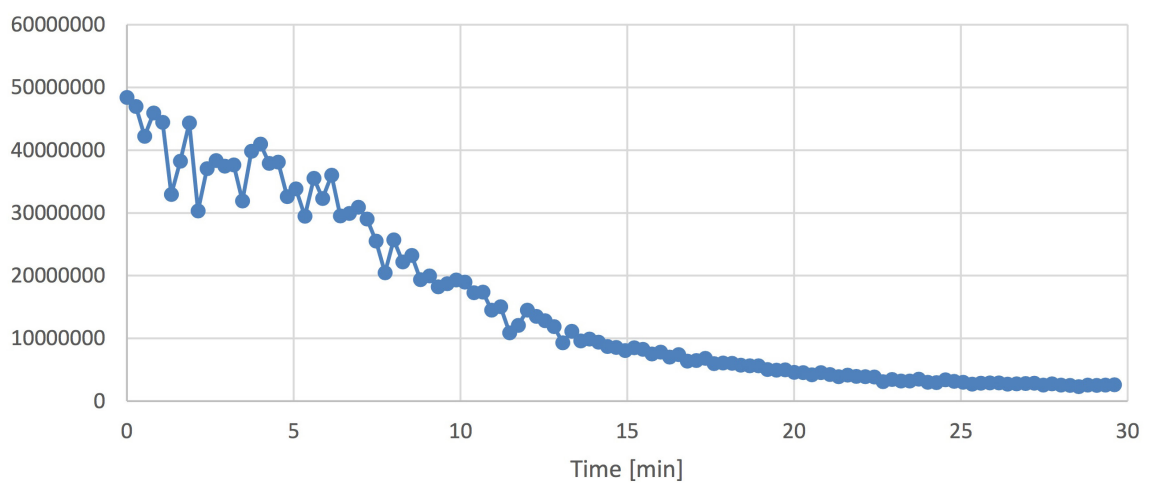
Also capturing 1,3-Butadiene (l), 1,3-Hexadiene, Acetic acid (m), Acetic acid +, Acetone, Acrolein (l), Acrylonitrile (l), Allyl acetate, Anisole, Butanal (m), Butane (l), Benzaldehyde, Benzene (VOC), Benzoic acid, Biphenyl, Butanol, Butyl acetate, Butyl acrylate, Butyric acid, Carbon tetrachloride (m), Chlorine (m), Chloroform (l), Cyclohexane, Cyclohexanone, Decane, Decanol, Decene, Di-2-ethylhexyl phthalate (DEHP or DOP), Dichloromethane (l), Diethyl ether (l), Diisodecyl phthalate (DIDP), Diisononyl phthalate (DINP), Dimethoxyethane (m), Dioxane, Diphenyl ether, Dodecane, Eicosane (n-)Ethyl acrylate, Ethanol (l), Ethyl acetate (m), Ethyl chloride (l), Ethyl lactate, Ethyl methacrylate, Ethylbenzene, Ethylene acrylate, Ethylene glycol, Ethylene oxide (l), Formic acid (l), Formic acid +, Heptanal, Heptane, Heptanol, Heptene, Hexamethyldisiloxane (HMDSO), Hexanal, Hexane, Hexanol, Hexene (m), Hydrogen chloride, Hydrogen fluoride, Hydrogen peroxide, Hydrogen sulfide, Isopropanol (m), Isopropyl acrylate, Mercury vapour, Methyl acrylate (m), Methyl acetate (l), Methyl ethyl ketone (m), Methyl methacrylate, N-methyl pyrrolidone, Naphthalene, Nicotine, Nonanal, Nonane, Nonanol, Nonene, Octane, Octanol, Octene, Pentanal, Pentane (m), Pentanol, Pentene (l), Pentyl acetate, Phenol, Pinene (a-), Propanal (l), Propanoic acid, Propyl acetate, Propylene glycol methyl ether acetate, Propylene oxide (l), Pyridine, Styrene (VOC), Sulfur dioxide (m), Tetrachloroethylene (VOC), Tetrahydrofuran (l), Toluene (VOC), Toluene-2, 4-diisocyanate (TDI), Toluidine, Trichloroethylene, Trimethylbenzene, Vinyl acetate (m), Xylene (VOC).

### Filter 7 – Post filter

After fan on outlet  
Purpose: captures eventual carbon released from carbon filters  
Made of galvanised steel. Woven metal wire mesh. Class G2.  
Filter recycling: metal

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Count of 0.3 micron particles. From ca 50 million to ca 2 million particles/m<sup>3</sup> in 30 min at medium fan speed. A constant rate of impurities at normal ventilation rate were applied during the entire test period.



Concentration of Toulene molecules. From ca 1400 parts per billion to 0 ppb/m<sup>3</sup> in 14 min at medium fan speed. No additional impurities were applied during the test period.

