



# Aerosol extractor and air purifier

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# clear design high suction power fluent fan control professional filtration

Developed to local extraction from sources of pollutants containing bacteria and viruses and as a professional air purifier

Certified by authorized laboratories

Catches viruses in the size of **0.1 μm** (COVID-19 = 0.12 μm)

Antibacterial coating with silver nanoparticles

Contactless filter replacement

Measuring real clogged filters

Special arm for dental offices - **MiracleAir-A1**

Professional air purifier **MiracleAir-B**

## Suction arm

Version A1 is long arm especially developed for dentists. The arm is fully turnable. It is made from plastic. There is optional, plastic, easily exchangeable sleeve for contamination protection

## Basic description

The air purifier was developed for use especially in healthcare in direct cooperation with a respected Czech dental clinic. Unlike similar devices, it has a high suction power. The high cleaning effect is guaranteed thanks to the four-stage filtration. It reliably captures roars microparticles, bacteria and viruses up to **0.1 μm in size**. Most competing products capture particles up to only 0.3 μm in size, so they do not detect viruses. Filter clogging is indicated on the basis of a **real measurement** of filter clogging, which is unique for this type of device. The suction arm allows to place suction nozzle comfortably close to the patient's mouth. During the construction, maximum attention was paid to easy cleaning and simple, **hygienically safe, replacement of filters**.

## Suction box

serves for the arm installation. There is a check point with plastic hose placed for sensing of the air-pressure before filter and also the box connectors.

## Filter box

Standard set consists of four filters. Lifetime of the set depends on running conditions. Middle lifetime is expected around six months. It is necessary to check the filter clogging to reach declared suction efficiency. There is orange LED placed on the fan box for this purpose. When the diode shines it is necessary to replace filter box. Used box is completely replaced by the new one. Maximum hygienical protection is secured in this way. The filter box is consumable part and can be ordered individually.

## Fan box

Includes fan with EC motor, differential pressure switch, main button (ON/OFF), flexible cable with male plug (length 2,7m), box connectors and control panel. Control panel consists of a knob with a scale, blue LED and orange LED. There is position "OFF" on left hand side of running field on the scale. On the right end of scale, there is marked part for efficient using of the arm. The blue LED signalizes running of a unit. The orange LED signalizes clogging of the filters.

## Side covers

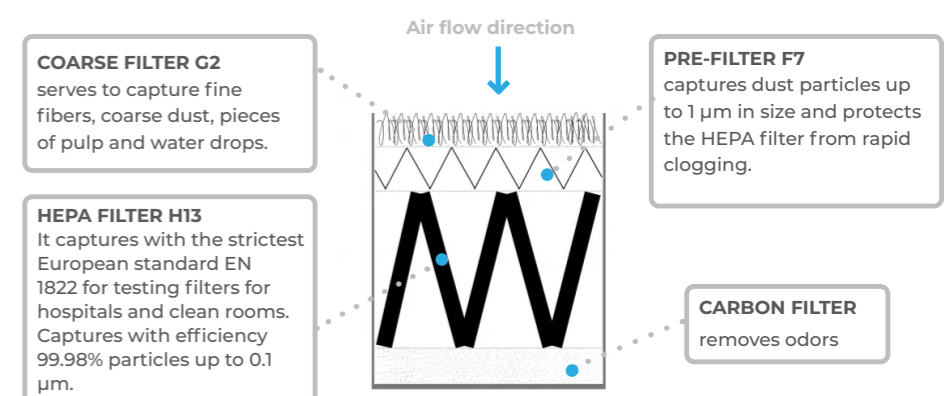
The design part which covers boxes configuration: box connectors, electric and air connectors. There is manual for filter box replacement placed on inner side. Covers are fixed to the boxes by magnets.

## Technical parameters air purifier MiracleAir

		MiracleAir-A1	MiracleAir-B
Filtration power (airflow)	m3/h	300	400
Weight	kg	28,5	26,5
Power supply / power consumption	V/Hz/W	240/50-60/85	
IP range	IP	20	
Noise level	dB (A)	51	
Dimension	w x d x h (cm)	35 x 31 x 125	35 x 31 x 80
Arm reach (radius of action)	cm	145	-
Suction efficiency	cm	35	-
Fan type	-	radial with EC motor	
Control	-	fluent speed control	
Air suction	-	by arm	by suction head
Air output	-	at the bottom of the unit	
Color	-	antibacterial RAL 9003 (white)	
Case material	-	galvanized steel	
Filtration	-	four-stage (G2, F7, HEPA H13, activated carbon)	
Filtration efficiency	-	99.98% for particles 0,1 μm	
Sales code	-	MIR1-030-A-G1F7H13AU-0A0	MIR1-040-B-G1F7H13AU-0A0

\* measured in laboratory conditions

## Schematic section of the filter box



## Available types

MiracleAir-A1



MiracleAir-B

