

The Quick Manual will guide you through a quick installation of the product, but in no case could it replace the full operating manual. A complete operating manual is available on our website www.xvent.cz or can be downloaded using a QR code.



Before starting all installation work, make sure that the mains power outlet you want to use for unit connection is equipped with a protective contact (pin) and meets the requirements for unit power supply (production plate).

Use the smart device (mobile phone, tablet, etc.) equipped with this technology to read the QR code.



Use of the unit

- The Miracleair unit is designed for indoor covered and dry areas with an ambient temperatures from 5 °C to +40 °C and with a maximum relative humidity of 70% - non-condensing, without too high a dust load in the surrounding air.
- The aerosol extraction unit MiracleAir 300-A is designed to extract the aerosol-fume that may occur in medical operations related to the treatment of the patient, e.g. dental treatment, anaesthetic treatment.
- Air purifier—the MiracleAir 400-B unit—is designed to filter air in the internal environment, e.g.: medical facilities, waiting rooms, cosmetic facilities, offices
- The unit is designed for the extraction and filtering of particles larger than 0,1 µm (filtering efficiency 99,95 per cent).
- Neither the manufacturer nor the supplier is liable for damage caused by improper use of the units. The risk is borne solely by the user.

Technical parameters

| | | MiracleAir 300-A | | MiracleAir 400-B | |
|--------------------------|------|------------------|------|------------------|------|
| | | max | min | max | min |
| Unit weight | kg | 28 | | 27 | |
| Power supply of the unit | V/Hz | 1 ~ 230/50-60 | | | |
| Motor output | W | 112 | 68 | 115 | 4 |
| Motor current | A | 1 | 0,62 | 1 | 0,05 |
| Protection class | | 20 | | | |

Miracleair unit shall not be used:



for suction of burning or glowing substances

for exhausting readily flammable or explosive gases.

- to exhaust aggressive media
- to exhaust liquids of any kinds in an environment with increased risk of explosion, flammable substances and increased dust.
- Neither the manufacturer nor the supplier is liable for damage caused by improper use of the units.

Regulation of the unit

all control elements located on the body of the unit that are designed for user control are energized by 10VDC (safe voltage)

Main control panel

The indicator light of the filter box clogging: it lights up when the filter box is clogged. Like this, it also informs the user about the necessity to change the filter box.



Signal diode

It is signalling the operation of the entire unit. If the diode is lit, the unit is on. If the diode is not on, the unit is switched off.

The main control element (dial), allows continuous adjustment of the power of the unit in any position from the minimum to maximum power according to user requirements. The "OFF" position allows the entire regulator to be switched off.

Commissioning

General Information – Safety



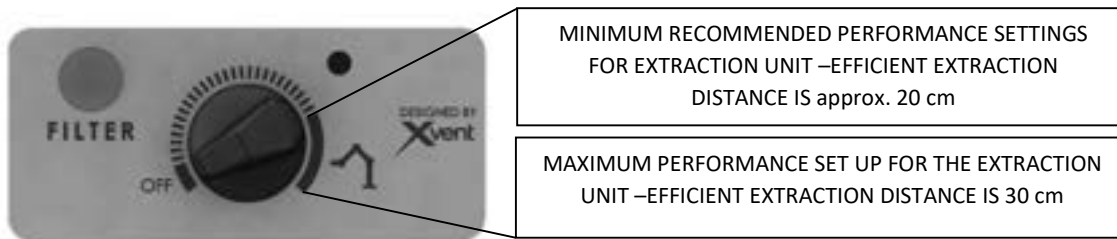
- Before starting all installation work, make sure that the mains power outlet you want to use to connect the unit is equipped with a protective contact (pin).
- The electric supply plug must always remain accessible to allow safe disconnection of the unit from the mains in case of danger
- The electrical cable to be connected to the mains must not be broken
- When handling the unit, disconnect the device from the mains first (pull out the plug from mains socket).
- It is forbidden to interfere in any way with the internal connection of the unit

Switching on the unit

- Check that all fixation elements used during transport are removed
- Connect the MiracleAir to the mains using the mains cable (part of the unit).
- On the back side of the unit, switch on the main switch from the 0 position to the I position
- Turn the main control element (dial) approximately to the mid-position of the output scale (vertical)
- On the main control panel, the blue signal diode lights up, which indicates the operation of the unit
- The unit starts to run at speed to achieve the set output. The rise time of the unit fan may take about 5 sec.
- Unit ready for operation

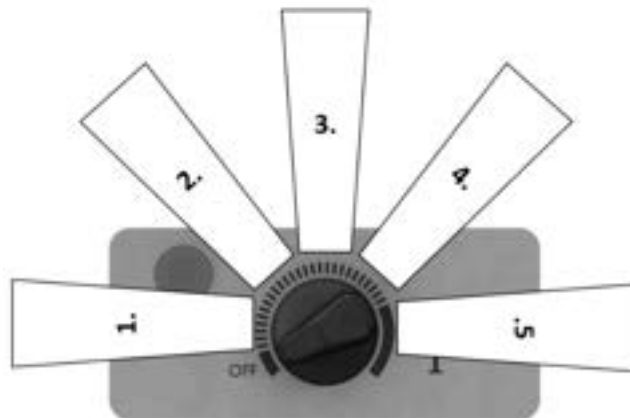
Performance setting for the MiracleAir 300-A aerosol extractor

The setting for effective exhaust performance is graphically shown on the scale of the main control (dial) by the symbol of the exhaust arm; effective suction output is marked with dark colour.



Performance setting for air cleaner – MiracleAir 400-B unit

- To adjust the filtration output, use the main control (dial) over the full scale.
- To select the correct output of the filter unit, always consider conditions of the area in which you will operate it.
- Depending on the surface size of the filtered area, select the appropriate unit performance settings.



| Conversion to air exchange in 1 hour in a standardized room of 25 m ² with a ceiling height of 2.5 m | | | | | | |
|---|-------------------|-------------------------------------|-----|-----|-----|-----|
| | | Possible settings on the unit panel | | | | |
| | | 1. | 2. | 3. | 4. | 5. |
| Multiple air exchange in 1 hour | | 0,5 x | 1 x | 3 x | 5 x | 7 x |
| Air output | m ³ /h | 30 | 70 | 180 | 310 | 410 |

| Conversion to air exchange with respect to the floor area of the room with a ceiling height of 2.5 m | | | | | | |
|--|-------------------|-------------------------------------|----|-----|-----|-----|
| | | Possible settings on the unit panel | | | | |
| | | 1. | 2. | 3. | 4. | 5. |
| Floor area | m ² | 12 | 30 | 70 | 120 | 160 |
| Air output | m ³ /h | 30 | 70 | 180 | 310 | 410 |