



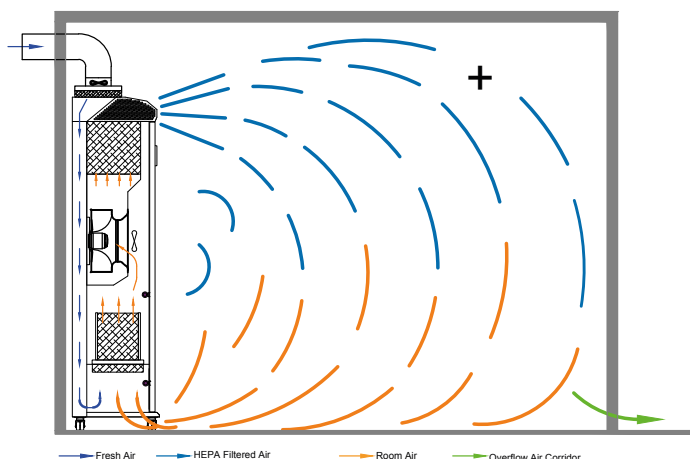
PORTABLE HYGIENIC AIR FILTRATION UNIT

Metisafe® AC-1500 Portable air filtration device is used in environments that need “Critically Important Clean Air”, in order to provide environment pressure and filtration.

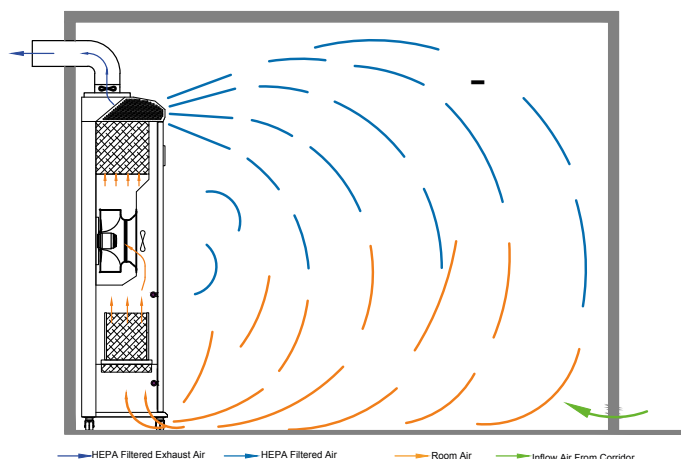
Usage areas;

- Industrial cleanrooms and laboratories
- Infection control units
- Protective or Infectious Patient Isolation
- Intervention and Examination rooms
- Intensive Care Units (ICU)
- Newborn units
- Dental health centers
- Cell culture laboratories
- Molecular analysis laboratories
- Animal research laboratories

Positive Pressure Working Mode (Optional)



Negative Pressure Working Mode (Optional)

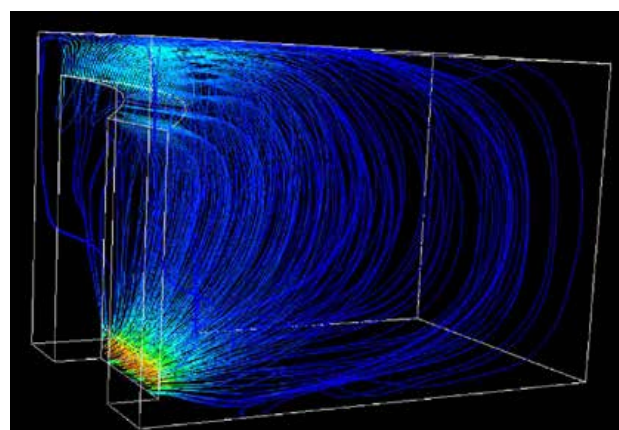


The ambient air is taken from the bottom of the device. The air is firstly put through a two-step pre-filtration. The air that is purified from solid particles is HEPA filtered and is released to the environment through the air distribution diffuser.

As the clean air is released close to the ceiling area of the room, a positive pressure field is created on the top part of the cleanroom. By this effect the polluted air is pushed towards the cleanroom to floor area. Short circuit in air movements (suction of the clean air by the device before the air is released in to the environment) is prevented. This causes an active particle removing speed.

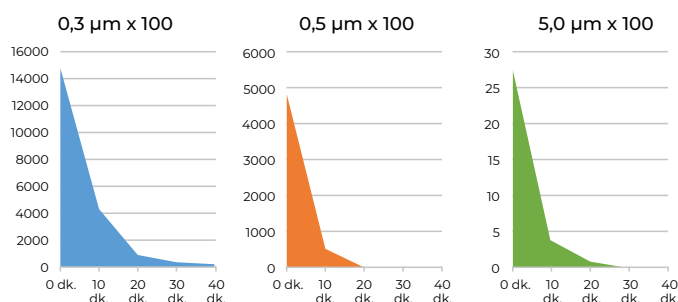
The device can be adjusted with connection options to create positive and negative pressure. In the positive pressure mode, the device can receive air from outside by using the duct connection that has been established. In the negative pressure mode, the device can exhaust a portion of the hepa filtered air through the duct connection that has been established to the external environment.

By pre-filtration, the contamination of the inner parts of the device is prevented and the lifespan of the hepa filter is extended. The surfaces of the pre-filters are disinfected by UV lights to prevent the breeding of microorganisms.



CFD (Computational Fluid Dynamics Air Flow Modelling

Metisafe AC-1500 is designed with consideration of the HIGH SUPPLY-LOW RETURN method according to the ASHARE and CDC standards. With the Specially Designed Distribution Diffuser, air distribution that can reach into dead zones and Active Particle Removing Efficiency is provided.



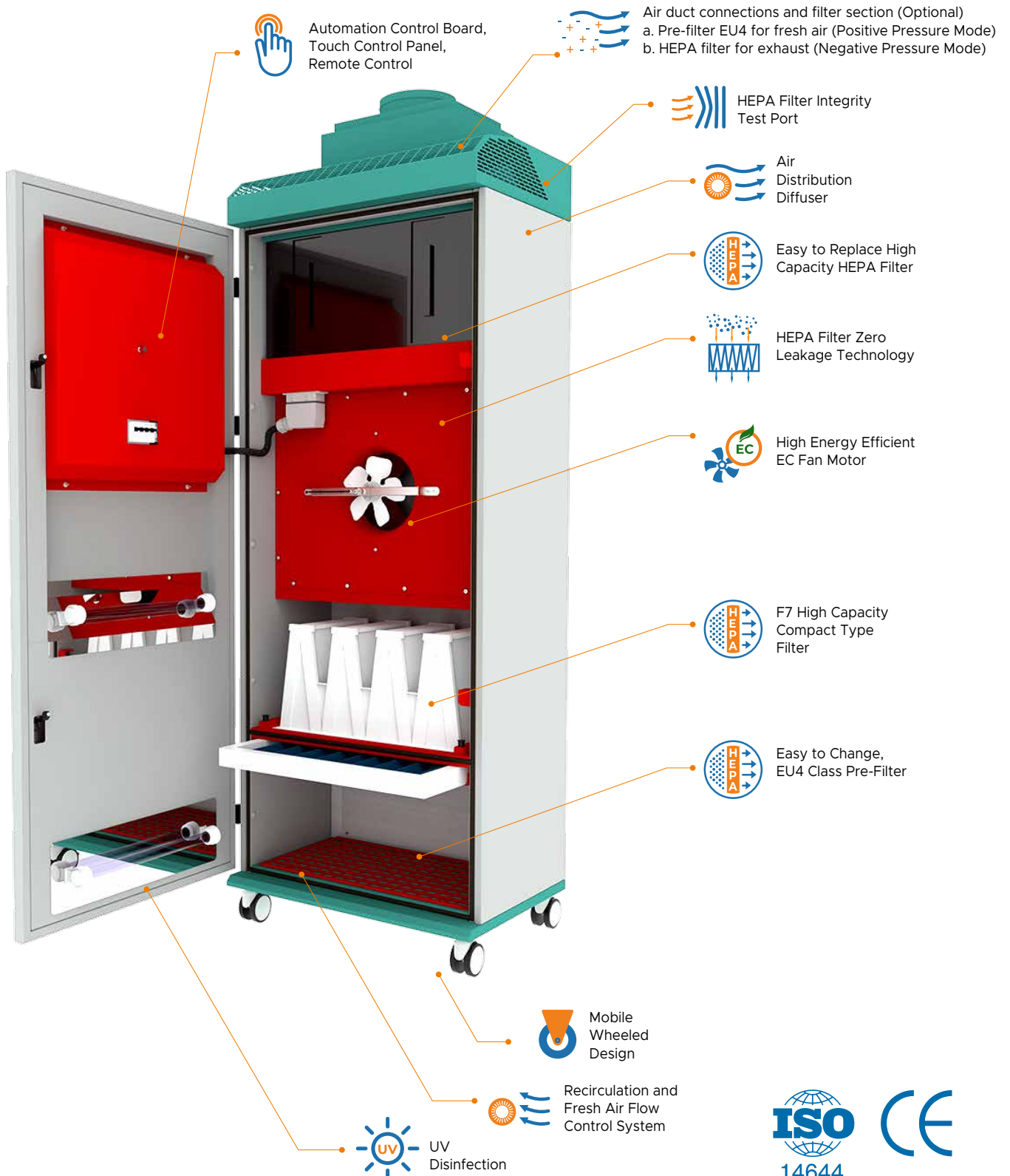
Time	0,3 µm x 100	0,5 µm x 100	5,0 µm x 100
0 min.	15000	4880	27,2
10 min.	4290	523	3,4
20 min.	872	93,4	0,9
30 min.	298	29,1	0
40 min..	239	27,8	0

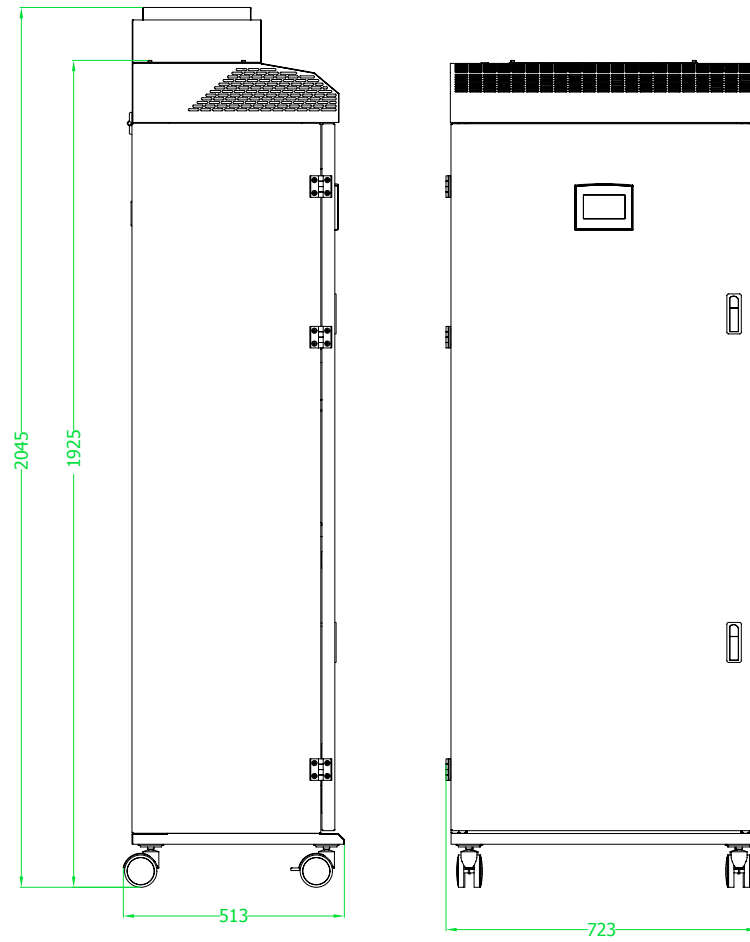
Experimental Air Flow : 800 m3/h
Room Volume : 50 m3
Air Exchange Number: 16 (ACH)

MICROPROCESSOR CONTROL SYSTEM



- 4.3" Color Screen Touch Control Panel: Airflow, Total Working Times, UV Lamps Working Times, Information Incase of Alarm, Filter Replacement,
- Stand-by Mode
- Temperature and Humidity Sensor (Optional)
- Automated Air Flow Rate And Velocity Compensation System
- Remote Controller (On - Off , Normal Mod – Stand-by Mod)
- Working Timer (Month, Day, Hour)
- Language Selection (Turkish, English, German and Arabic)





AC-1500 PORTABLE HYGIENIC AIR FILTRATION UNIT

Dimensions (WxLxH) mm		723 x 513 x 1925
Air Flow Rate (m ³ /h)	Stand by Mod	400 m ³ /h
	Normal Mod	900 m ³ /h
	Maximum	1500 m ³ /h
Air Flow Pattern		Turbulence
Supply Air Velocity Range		0.3 - 4 m/s
Filter Types (EN 1822)	Pre Filtre-1	EU4
	Pre Filtre-2	V Tipi Yüksek Kapasiteli F7 8.5 m ²
	Main Filter	HEPA, H14 %99.995 0.3 µ 30 m ²
Supply Air Class	EN ISO 14644-3	Class 100
	US FED 209E	ISO 5
Air Mixing Factor M (ASHRAE Guidelines)		1:1
UV Lamp	Electric Power	2 x 15 W
	Output Power	16700 µW-sec/cm ²
Noise Level (100 cm distance)	Normal Mod	≤ 55 dB (A)
	Stand by Mod	< 47 dB (A)
Supply Voltage and Frequency		220-240 V , 50-60 Hz
Power Consumption Under Normal Operating Conditions (UV and Fan Motor)		230 W
Weight (kg)		117.5 kg
Packaged Total Weight		137 kg
Pack/Palette Dimensions (WxLxH) mm		560 x 2015 x 895
Main Body Construction Material		Antibacterial Epoxy Powder Paint Coated Sheet Steel
Remote Controller		On / Off, Air Flow Rate Selection and Setting