

novus[®]
CLEAN AIR TECHNOLOGY



AIRTOWER F

The Plug & Play filter tower for the extraction
of hall welding fumes

The NOVUS Airtower F

The Plug & Play principle – Welding work is rarely done at one and the same work place or always at the same working height. This is why the equipment must be flexible to ensure efficient extraction. The Airtower has been specially developed for variable welding workstations. Our extraction wizard comes without pipelines and uses the Plug & Play principle so that it is ready to use immediately: *set up, connect power and compressed air, start extraction.* Thanks to its forklift slots and lifting eyes, the Airtower can be put in place almost anywhere quickly and easily.

The layered ventilation principle – If complete local extraction of the hazardous substances is not possible at the source of emission, the filter tower offers itself as a brilliant air-cleaning solution. The contaminated air is aspirated, filtered and then discharged as clean, breathable air at

ground level with no air drafts. Exactly where employees breathe. And this through an extended 270-degree range. Here, the Airtower works on the basis of the layered ventilation principle, which is recommended by the German Social Accident Insurance Institution and is seen as the best form of air recirculation.

Structure – The side cover, made of high-tech polycarbonate, is a sign of the unit's strictly lightweight construction, while also making it resistant to impacts, scratching and heat. The controls are integrated into the device. A control panel with a colour display at the front of the device makes it easy to use.

Setup – The NOVUS Airtower is delivered ready for installation and can be put in place almost anywhere quickly and easily thanks to its forklift slots and lifting eyes.

Technical specifications

Performance parameters

Device type	FT 5.000 F	FT 10.000 F	FT 15.000 F	FT 20.000 F
Motor	5,5 kW, 400 V, 50 Hz	7,5 kW, 400 V, 50 Hz	11 kW, 400 V, 50 Hz	15 kW, 400 V, 50 Hz
Airflow	5.000 m ³ /h	10.000 m ³ /h	15.000 m ³ /h	20.000 m ³ /h
Dust container	100 litres	100 litres	200 litres	200 litres

Dimensions and weight

Width of filter unit	1.619 mm	1.619 mm	2.066 mm	2.066 mm
Depth of filter unit	1.675 mm	1.675 mm	1.756 mm	1.756 mm
Height of filter unit	2.885 mm	3.643 mm	3.643 mm	3.643 mm
Weight approx.	990 kg	1.280 kg	1.480 kg	1.590 kg

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AIRTOWER M

The Plug & Play filter tower for the hall extraction
of cooling lubricants

The NOVUS Airtower M

The Plug & Play principle – To ensure efficient extraction the equipment must be flexible. The NOVUS Airtower has been specially developed for variable welding workstations. Our extraction wizard comes without pipelines and is ready to use immediately: *set up, connect power and compressed air, start extraction.*

The layered ventilation principle – The contaminated air is aspirated at the top of the unit, filtered and then discharged as clean, breathable air at ground level with no air drafts. Here, the Airtower works on the basis of the layered ventilation principle, which is recommended by the German Social Accident Insurance Institution and is seen as the best form of air recirculation. It minimises the percentage of outside air and reduces heating costs by up to 70%.

Function – The ambient air drawn in at the top of the unit is filtered safely, economically and in a microbiologically inactive manner using class M6 filter envelopes. The second filter stage (class

G4) located in the outlet ports helps to ensure that the supply air is distributed evenly and stops dust from entering the device when it is inactive. The cleaned air then comes gradually out of the three large exhaust areas at the bottom of the Airtower, without causing a draught. At this point, the rounded design ensures that fresh air flows towards staff in an ideal manner, as well as helping the device blend attractively into the production environment and, importantly, keeping its operation extremely quiet.

Structure – The side cover, made of high-tech polycarbonate, is a sign of the unit's strictly lightweight construction, while also making it resistant to impacts, scratching and heat. The controls are integrated into the device. A control panel with a colour display at the front of the device makes it easy to use.

Setup – The NOVUS Airtower is delivered ready for installation and can be put in place almost anywhere quickly and easily thanks to its forklift slots and lifting eyes.

Technical specifications

Performance parameters

Device type	FT 5.000 M	FT 10.000 M	FT 15.000 M	FT 20.000 M
Motor	5,5 kW, 400 V, 50 Hz	7,5 kW, 400 V, 50 Hz	11 kW, 400 V, 50 Hz	15 kW, 400 V, 50 Hz
Airflow	5.000 m ³ /h	10.000 m ³ /h	15.000 m ³ /h	20.000 m ³ /h

Dimensions and weight

Width of filter unit	1.619 mm	1.619 mm	2.066 mm	2.066 mm
Depth of filter unit	1.675 mm	1.675 mm	1.756 mm	1.756 mm
Height of filter unit	1.993 mm	2.733 mm	2.733 mm	2.733 mm
Weight approx.	580 kg	670 kg	950 kg	990 kg

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AIRTOWER CLIMATE 360M

The Plug & Play filter tower for the hall extraction of cooling lubricants with 360° air conditioning

NOVUS Airtower Climate 360M

The Plug & Play principle – Effective, flexible extraction for entire production halls is absolutely indispensable for a modern manufacturing company. Unlike conventional hall extraction systems, the NOVUS Airtower can be used without any piping needed to be installed. Simply set it up, connect the power supply and you're done.

Now, this ingenious device can also combat the extreme heat generated by the processing stations and cool your production hall, or heat it if required.

The layered ventilation principle – The contaminated air is aspirated at the top of the unit, filtered and temperature-adjusted, then discharged as clean, conditioned, breathable air at ground level without causing a draught. Here, the Airtower works on the basis of the layered ventilation principle, which is recommended by the German Social Accident Insurance Institution and is seen as the best form of air recirculation.

Function – The ambient air drawn in at the top of the unit is filtered safely, economically and in a microbiologically inactive manner using class M6 filter pockets. The second filter stage (class G4) located in the four discharge openings helps to ensure that the temperature-adjusted air is distributed evenly and stops dust from entering the device when it is inactive.

Air conditioning – The Airtower Climate 360M is equipped with four large heat exchangers. These can all be controlled separately and their discharge temperature individually adjusted.

That includes unbeatable values in terms of cooling and air discharge speed.

If your staff feel too cool, they can switch the discharge opening facing them to air circulation.

Structure – The side cover, made of high-tech polycarbonate, is a sign of the unit's strictly lightweight construction, while also making it resistant to impacts, scratching and heat. The controls are integrated into the device. A control panel at the front of the device makes it easy to use.

Technical Specifications

Performance parameters

Device type	FT 20.000 M - 360
Motor	11,9 kW, 400 V, 50 Hz
Airflow	20.000 m ³ /h

Dimensions and weight

Width of filter unit	2.058 mm
Depth of filter unit	2.075 mm
Height of filter unit	2.856 mm
Weight approx.	ca. 1.300 kg

Cooling comparison NOVUS Competitors

ΔT↓Air in K	9,5	5,3
ΔP↓Water in mbar	107,0	265,6
Q↓Air in kW	64,1	35,6