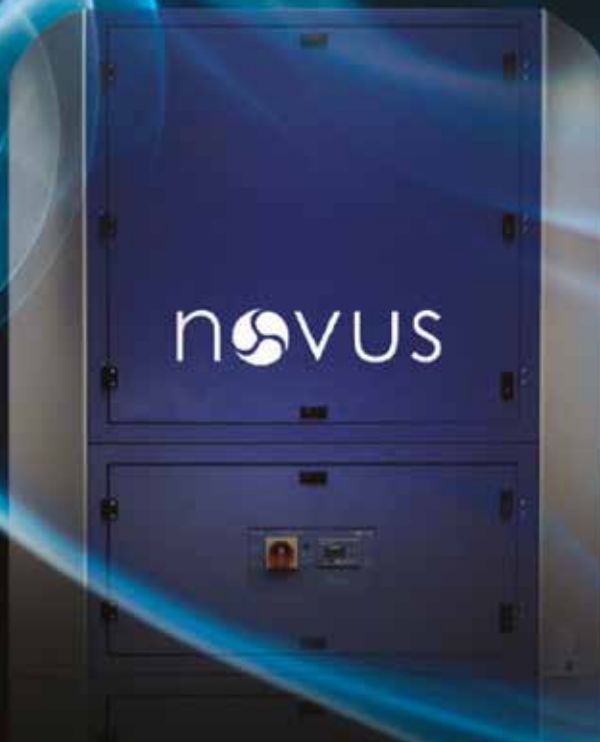


The Novus AirTower

Revolutionises air quality within production areas

No ducting required, just plug and play



The Novus AirTower

A revolution in welding fume filtration

In some cases, an effective local exhaust ventilation system for multiple weld points on complex and large components is not practical. Unlike conventional factory air extraction systems, the Novus AirTower does not need ducting to be installed. Just set it up, connect the electrics and compressed air...and you're done.

The layered ventilation principle

The contaminated air is drawn into the unit at the top and the filtered air is returned into the workplace in a draught-free manner at ground level. This is assisted by the thermal air currents generated during the welding process and is therefore the most efficient way of recirculating air. It ensures pure air in the breathing zone and minimises heating costs due to the reduction of the external air ratio.

Function

The contaminated room air sucked in at the top of the unit flows through a multi-cyclone pre-separator (with protection against sparks and coarse dust) and is then filtered in the 1st filter stage through the BGIA-approved long life filter cartridges.

Product advantages at a glance

- 70 % savings in heating costs*
(ca. £7,500.00 per year in 1 shift operation at 14 °C temperature difference). Request your individual amortization calculation!
- Power requirement less than 1.5 kW per 1,000 m³ cleaned hall air
- Low operating costs thanks to the fully automated cleaning of the long life filter cartridges
- Installation and commissioning service
- No extensive ducting installation and assembly work necessary

Optional

- Radio remote control
- W-Lan remote maintenance
- IFA W3-tested version
- Activated carbon pads for gas cleaning
- Alternative filter available for oil mist separation
- Individual customer design with height adjustable intake

3 filter stages
Total filter area:
295 m²



Round design for optimum
air flow conditions

Multi-cyclone pre-separator
(spark protection)

Side panelling made from
hightech polycarbonate
Impact resistant.
Scratch-proof. Heat resistant

Flexible installation using
the forklift lifting points or
crane eyes

Optimum noise insulation
Very quiet operation

Novus Logo Light: Everything
important at a glance

Controller with text display
Optional radio system with
remote maintenance

High-performance device
with 20,000 m³/h air volume
for the effective cleaning of
room volumes up to 6,600 m³

* The amount of external air can be reduced significantly due to the high filtration performance. Videos and other technical information can be found at www.aessolutions.co.uk/product-areas/novus-aiirtower/

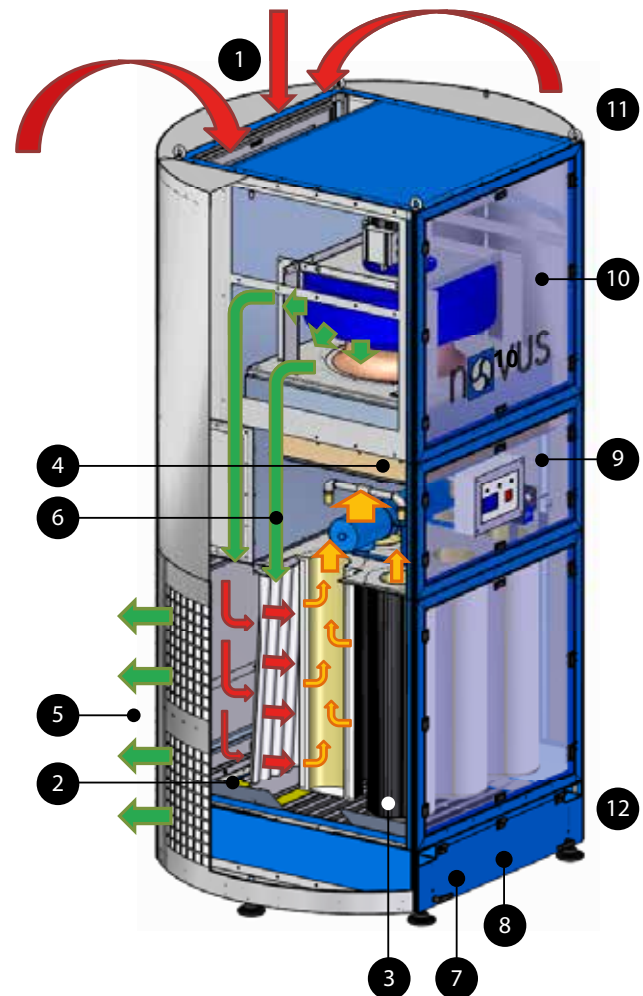
Functional Principle

- 1 Extraction from above
- 2 Separation of sparks and coarse particles
- 3 Filter cartridges of M-class quality separate the dust by > 99,95 %
- 4 Absolute filter to control air quality
- 5 Draught-free discharge of the filtered air (left, right, rear side) to return it to the work room (3. Filtration Stage)
- 6 Effective automatic cleaning of the cartridges using compressed air (pulse jet via differential pressure)
- 7 Separate drawer for coarse and hot particles
- 8 Removal of the separated dust particles using a mobile drawer
- 9 Control unit with touch display
- 10 Novus Logo Light
- 11 Crane hooks
- 12 Fork lifting points

These have fully automatic cleaning and thus permit trouble-free continuous operation of the system. The separated dust (including coarse particles) are collected in a special dust collecting drawer divided into two that can be easily removed. The 2nd filter stage acts as a class F9 monitoring filter.

The 3rd filter stage of class G4 in the discharge openings assists equal distribution of the air and protects the unit against dust entering from outside when the unit is down. The cleaned air is now discharged at low velocity (and therefore draught-free) at the three large discharge areas at the bottom of the filter tower. The round design allows for an optimum flow of fresh air to the employees, a visually successful integration in the production environment and, of particular importance, a very quiet operation.

The side panelling is made from high tech polycarbonate making the unit lightweight, impact resistant, scratchproof and heat resistant. The controller is integrated within the unit. A control panel with text display on the front of the unit ensures for simple handling.





The Novus filter tower is delivered ready to plug in and can be relocated at any time using the forklift lifting points and crane eyes.

Technical Data	FT - 5.000	FT - 10.000	FT - 15.000	FT - 20.000
Motor	5,5 kW, 400 V, 50 Hz	7.5 kW, 400 V, 50 Hz	11.0 kW, 400 V, 50 Hz	15.0 kW, 400 V, 50 Hz
Max. air volume flow	7,500 m ³ /h	12,500 m ³ /h	15,000 m ³ /h	20,000 m ³ /h
Max. negative pressure	1,800 Pa	1,800 Pa	1,800 Pa	1,800 Pa
Cleaning room volume app.	2,500 m ³	4,000 m ³	5,000 m ³	6,600 m ³
Dust container	100 litre	100 litre	200 litre	200 litre
Noise level	< 70 dB (A)	< 75 dB (A)	< 70 dB (A)	< 75 dB (A)
Weight	990 kg	1,280 kg	1,480 kg	1,590 kg
Colour front side	RAL 5012	RAL 5012	RAL 5012	RAL 5012
1st filter stage main filter				
Filter surface	80 m ²	148 m ²	222 m ²	222 m ²
Number of filters	4 items	4 items	6 items	6 items
Filter material	BGIA application category "M"			
Separation efficiency	> 99.9 %	> 99.9 %	> 99.9 %	> 99.9 %
Filter cleaning	pulse jet			
Compressed air connection	DN 6 mm, 4-6 bar			
2nd filter stage monitoring filter/fine particulate air filter				
Filter category (EN779)	F9	F9	F9	F9
Filter surface	39 m ²	39 m ²	39 m ²	39 m ²
3rd filter stage synthetic fibre mats (regenerable)				
Filter category (EN779)	G4	G4	G4	G4
Filter surface	4 m ²	6 m ²	8 m ²	8 m ²
Dimensions				
Filter unit width a)	1,619 mm	1,619 mm	2,066 mm	2,066 mm
Filter unit depth b)	1,675 mm	1,675 mm	1,756 mm	1,756 mm
Filter unit height c)	2,885 mm	3,643 mm	3,643 mm	3,643 mm
Housing positions				
Air inlet	from above			
Air discharge	3 lower displacement diffusers (left, right, at the rear)			
Side panelling	hightech polycarbonate (RAL 9006)			
Order number	FT 0105018	FT 0110018	FT 0115018	FT 0120018

The Novus Air Tower is available in the UK exclusively from AES. For further details contact:

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 Telephone 0800 032 0895 Email info@aessolutions.co.uk Web aessolutions.co.uk

