The air purifiers

FilterCube 4N, 2,2kW, 31,2 m²

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Product No.: 9501440022031100

Description

FilterCube 4N, 2,2kW, 31,2 m²

The **TEKA FilterCube 4N** is a central filter unit for welding fume extraction at several workstations at the same time. It is IFA-tested to DIN EN ISO 21904-1/-2 and meets welding fume separation class W3. Four filter cartridges give it capacity for several welding stations on a shared ductwork.

At a glance

- **IFA tested W3:** to DIN EN ISO 21904-1/-2
- **Power spray system:** fully automatic cleaning via the display control
- **Filter cartridges:** four suspended, large-area cartridges
- **Pre-separation:** large-area perforated plate

Your benefits

- **For high-alloy steels:** The W3 certification covers fumes from welding-related cutting and joining processes on unalloyed and high-alloy chrome-nickel steels.
- **Cleaning as needed:** The cartridges are cleaned with compressed air depending on the degree of soiling, without wear-prone rotating nozzles and with low cleaning pressure.
- **Long service life:** The filter cartridges are factory-coated with a filter aid. A large-area perforated plate acts as a pre-separator and distributes the particles over the entire filter surface.
- **Heavy particles straight into the container:** Because the cartridges are suspended and the air flows against them from the side, heavy particles drop directly into the dust collection container.
- **Easy to maintain:** Maintenance doors give access to all operating areas, the cartridges are fixed with clamping brackets and the dust collection container has quick-release fasteners.

Applications

Several manual welding stations, welding robots, flame cutting and grinding tables and extraction tables in metalworking, on unalloyed and high-alloy steels. The unit is designed for dry, oil-free and grease-free fumes and dusts; for grinding, only for non-explosive materials.

Standard equipment

Display control with fully automatic cleaning, four filter cartridges, integrated compressed air tank, dust collection container with quick-release fasteners and PE bag, direct-drive fan with fan control, bend silencer for upward air discharge and maintenance doors. The unit is delivered ready for operation; the electrical and compressed air connections are made on site by a qualified technician.

Options with IFA certificate

Safety device with particle sensor, extinguishing device and door with viewing window, dosing unit for filter aid, spark pre-separator, Easy-Clean-Plus filter cartridges and sound insulation housing for the fan.

Further accessories

HEPA or activated carbon retrofit kit as final stage, frequency converter with pressure transmitter and intelligent filter control, and master-slave control.

The operating instructions are in the Downloads tab. Our overview page gives you all systems for welding fume extraction at a glance.

Properties

Cleaning pressure (bar):	2–4
Compressor capacity (litres per minute):	75
Dust container volume (litres):	50
Engine control system design:	Sold separately, including cable
Fan design:	on the grounds

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Properties

Filter control structure:	Sold separately, including cable
Main filter quantity:	4
drive type:	direct drive fan, low maintenance
fan:	direct drive, low maintenance
medium to be filtered:	dry, grease-free or oil-free dust / smoke
Volumetric flow (m³/h):	3.500
max. pressure (Pa):	2,900
Operating point:	1,900 m³/h at 2,500 Pa
Engine power (kW):	2.2
Supply voltage (V):	400
Connection frequency (Hz):	50
Current consumption (A):	5
Current type:	3Ph+N+PE
Automatic cleaning:	Yes
Filter control:	Siemens (S7 + LOGO)
Engine control:	Motor protection switch
Vorfilter:	incl.
main filter:	filter cartridge
Cartridges number:	4 to 7.8
Filter surface (m²):	15.6
Ansaugstutzen (mm):	NW 250 – left or right side
Ausblas:	left or right side – using a TEKA silencer (300 x 300 mm*)
Sound level (dB(A)):	78 – in accordance with DIN EN ISO 3744
Width (mm):	800
Depth (mm):	800
Height (mm):	2,320
Colour:	RAL 7016

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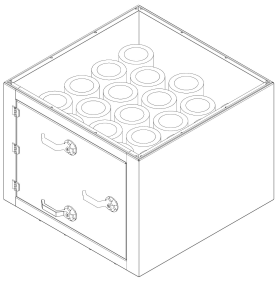
Replacement parts

Filter cartridge, filter area 7,8m²
Product No.: 6160600107808

PE-bags (pack of 10) for
Product No.: 10030251

Accessories

Filter cartridge, type easy clean plus
Product No.: 6160600212508



Activated carbon extension kit
Product No.: 40009501440

Frequency converter with pressure transmitter for
Product No.: 962002009022

Start-Stop Automatic
Product No.: 150010016

Master-Slave-Control 32A(incl. Transf. for 24V AC)
Product No.: 150010032

Filter cartridge, Type easy clean +
Product No.: 6160600207706

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Filter cartridge, Type easy clean nano
Product No.: 6160600307706

Filter cartridge, Type easy clean nano
Product No.: 6160600312606

Extension set Hepa filter (H13)
Product No.: 4000950144002

Mater-Slave-Control 16A (incl. Transf. for 24V AC)
Product No.: 15001001602

Master slave junction box for controlling a motor
Product No.: 15001001604

Option soundproof housing for FilterCube 4
Product No.: 950144194712

Option soundproof housing for FilterCube 4
Product No.: 950144194718

Cartridge protection NANNOX P50
Product No.: 68130000100

Cartridge protection NANNOX P50
Product No.: 68130000400

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Cartridge protection NANNOX P50
Product No.: 68130010000

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