CleanAir-Cube

Geeignet für

Complementary room air cleaning with modern sensor technology

CleanAir-Cube

Description

The CleanAir-Cube is a smart ventilation suction and filtration unit.

Areas of application are predominantly industrial plants, welding shops where dusts & smokes emerge. It can also be used in addition to source extraction systems or as a preventive measure - a "standalone system" - before any danger from hazardous dusts can occur. Also, it can be used in addition to keeping the indoor air clean.

As a safety device, the system has a laser measurement sensor system on the clean air side.

Safety creates trust.

In the clean-air sector of the TEKA-CleanAir-Cube, the Airtracker Mini Blue measures the dust concentration PM 2.5 - this corresponds to the so-called A-dusts (alveolar). The measurement takes place in real time. The Airtracker Mini is equipped with a high-precision laser measuring system.

Technical data

CleanAir-Cube	
Max. volumetric flow of the fan	8 000 m³/h
Motor performance	235 W
Voltage	230 V / 50 Hz
Separation efficiency	> 99%
Current consumption	1 A
Noise level	65 dB(A)
Dimensions (B x T x H)	865 x 682 x 2778 mm

Our Hotline
+49 28 63 92 82 0

Example setup of CleanAirCubes with AirControllers and Airtrackers

TEKA Connect

CleanAir-Cube + Airtracker Basic + AirController

With this set, we move your health into focus and deliver a system that ensures clean air in your construction hall. The air quality is permanently monitored and documented by the Airtacker. In combination with the AirController you are energetically on the safe side.

+

ILK Dresden
Prüf-Nr.
B-33-17-2115-1

+

Bundleprice 7 823,00 €

Available versions

CleanAir-Cube		PG3
CleanAir-Cube Standalone	Airtracker	AirController
20170201	20170140	20170150
7 349,00 €	**839,00 €**	**368,00 €**

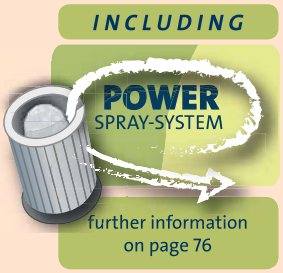
AIRTECH P10

Suitable for

Cleaning of polluted ambient air in a production hall.

AIRTECH P10

Gefahrstoffgeprüft Schweißrauch-abscheideklasse W3



Description

The TEKA AIRTECH series is a stand alone system. Fields of use are mainly industrial and welding companies where a suction solution right at the source can not be installed or where the AIRTECH unit is used for additional cleaning of the production hall.

The polluted air is sucked into the extraction channels attached on either side of the unit at a height of about 3 m and then led into the filter section. The particles are sticking to the surface of the filter cartridges.

The filter cartridges are automatically air cleaned at preset intervals. The particles are loosened from the surface of the filter and fall into the dust collecting container. The cleaned air is guided back into the room by individually adjustable jet nozzles with high reach. That way the polluted air is also moved into the direction of the suction canals.

As a safety device the unit is equipped with a particle sensor on the clean air side. This way the system is constantly monitored to protect from filter breakthroughs.

If an error occurs the fan is automatically shut off. Simultaneously the unit emits an optical and acoustic warning signal.

The AIRTECH series is certified according to the DIN EN ISO 15012-1 and approved by the IFA (Institute for Work Safety of the German Legal Accident Insurance, formerly known as BGIA) for the welding fume class W3 as a welding fume suction unit with a fixed position. Many types of dust, welding fume among others, are inflammable.

The welding company is supposed to take appropriate measures to prevent those specific hazards.

Especially it has to make sure that no ignition sources are sucked into the unit. If you are dealing with explosive dusts, please request a separate offer according to the ATEX directive.

Technical data

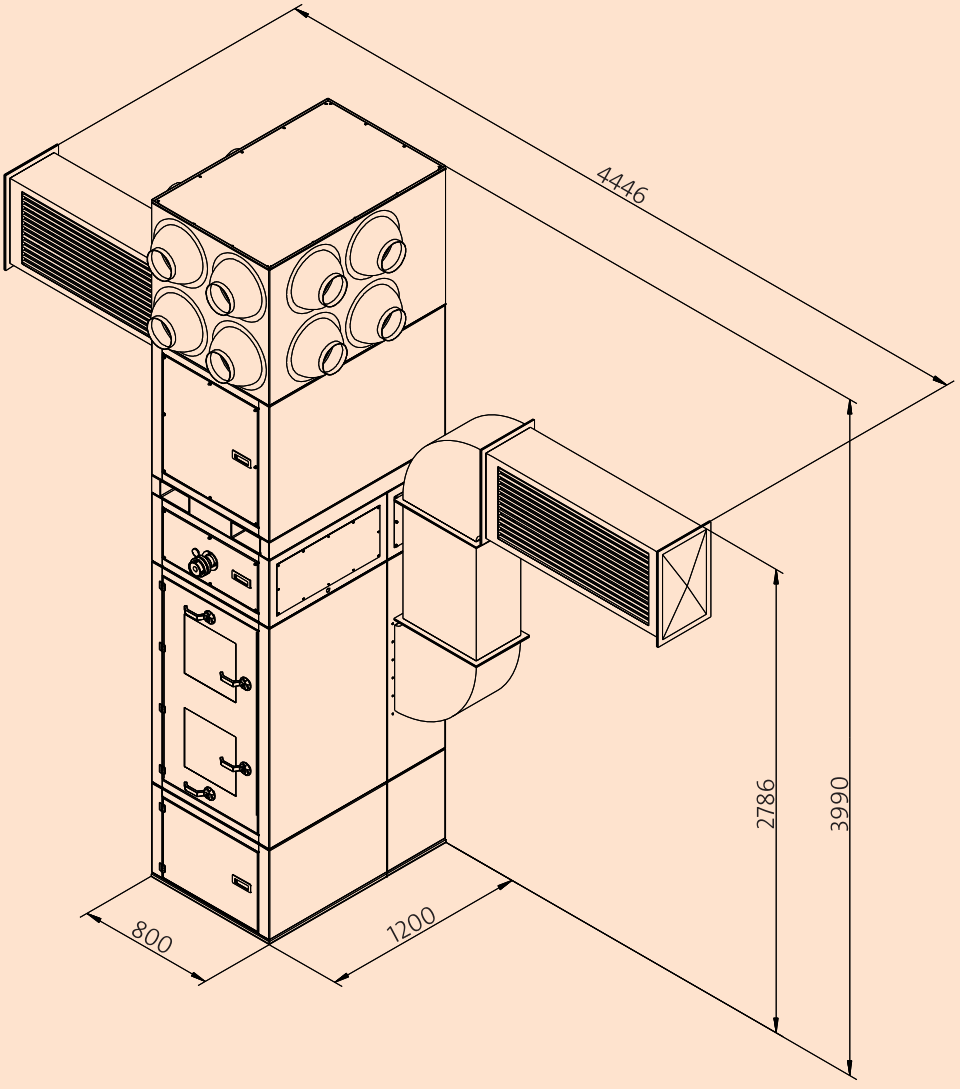
AIRTECH P10	
Max. volumetric flow of the fan	10 000 m³/h
Motor performance	11,0 kW
Separation efficiency	≥ 99 %
Dimensions	800 x 1200 x 3990 mm (Width incl. canals 4500 mm, depth incl. jets 1455 mm)

Our Hotline
+49 28 63 92 82 0

Using these kind of units does not release the person in charge from his/her duty to provide appropriate, personal protective equipment for his/her co-workers.

When working with stainless steels it is mandatory to use suction elements.

- Housing made of stable steel plate (powder coating inside and outside)
- Wear- and maintenance-free, fully automatic dedusting via POWER SPRAY-SYSTEM
- Filter housing with air inlet holes on both sides
- Dedusting system with compressed air tank
- Fan with soundproof housing
- Filter cartridges, category BIA M
- Suction channel
- Particle sensor
- Display control unit
- Filter medium (precoat)
- PE bag for the dust collecting tray



Available as an option

- Suction ducting
- Device to connect ductings
- Frequency converter

Available versions

AIRTECH P10
95 014 161 0
Price on request

AIRTECH Central suction and filter unit

Suitable for

Cleaning of polluted ambient air in a production hall. This unit is IFA certified for welding fume class W3.

AIRTECH P30

Gefahrstoffgeprüft Schweißrauch-abscheideklasse W3

Description

The filter unit is IFA-certified according to DIN EN ISO 15012-1. A local extraction often is not enough to undercut the occupational exposure limits and thus to exclude any risk for humans. In this case, it is necessary to ventilate the room in addition.

The pollutants are extracted at a height of approx. 3-4 m via extraction grilles and filtered afterwards. At ceiling height, the cleaned air is returned to the room via nozzles.

The advantages of the AIRTECH room exhausting system are the optimal extraction performance of the filter unit (high lifetime of the cartridges, good extraction performance), the user-friendliness and the low maintenance. Since ducting is not necessary, the location of the unit can be chosen flexibly.

If the air is returned into the working area, the heating costs can be reduced considerably. However, the regulations of the new German Hazardous Substances Ordinance (GefStoffV) have to be met.

The filter units are equipped with filter cartridges of the category BIA M (separation efficiency ≥ 99 %) and have an especially developed dedusting system which consists of the combination of a display control unit and the POWER SPRAY-SYSTEM. This combination makes sure of an excellent dedusting performance of the filter cartridges, so that an optimal extraction performance is guaranteed at any time of the operation.

PLEASE NOTE:

In order to adapt the unit to carcinogenic substances, a consultation on-site is required!

INCLUDING

POWER SPRAY-SYSTEM

further information on page 76

Technical data

AIRTECH Central suction and filter unit	
Max. volumetric flow of the fan	18 000 – 30 000 m³/h
Motor performance	11,0 – 22,0 kW
Separation efficiency	≥ 99 %

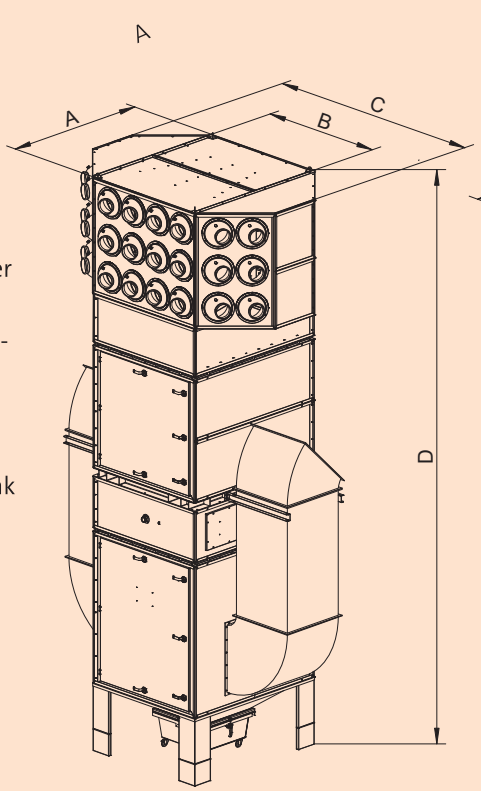
Our Hotline
+49 28 63 92 82 0

Standard equipment

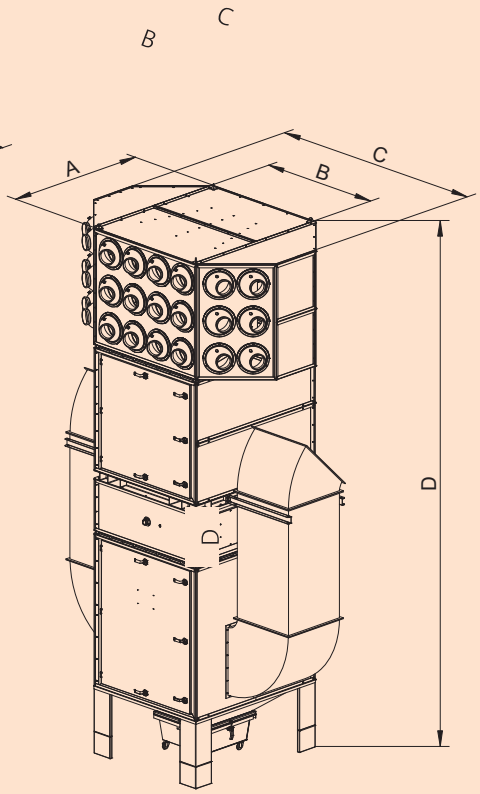
- Housing made of stable steel plate (powder coating inside and outside)
- Wear- and maintenance-free, fully automatic dedusting via POWER SPRAY-SYSTEM
- Filter housing with air inlet holes on both sides
- Dedusting system with compressed air tank
- Fan with soundproof housing
- Filter cartridges, category BIA M
- Suction channel
- Particle sensor
- Display control unit
- Filter medium (precoat)
- PE bag for the dust collecting tray

Available as an option

- Suction ducting
- Device to connect ductings
- Frequency converter



Unit with silencer housing



Unit without silencer housing

Dimensions		A	B	C	D	Amount of nozzles
with silencer housing	AIRTECH P18	1440 mm	1440 mm	3200 mm	6570 mm	17
	AIRTECH P24	1880 mm	1600 mm	3510mm	6810 mm	20
	AIRTECH P30	1880 mm	1600 mm	3510 mm	6810 mm	24
without silencer housing	AIRTECH P18	1440 mm	1440 mm	3200 mm	6000 mm	17
	AIRTECH P24	1880 mm	1600 mm	3510mm	6240 mm	20
	AIRTECH P30	1880 mm	1600 mm	3510 mm	6240 mm	24

Available versions

AIRTECH Central suction and filter unit for clean room air			
Max. volumetric flow of the fan	*18 000 m³/h*	*24 000 m³/h*	*30 000 m³/h*
Motor performance	*11,0 kW*	*15,0 kW*	*22,0 kW*
Filter surface	*324 m² (9 x 36 m²)*	*324 m² (9×36 m²)*	*432 m² (12×36 m²)*
	AIRTECH P18 94 014 16 18	**AIRTECH P24** 94 014 16 24	**AIRTECH P30** 94 014 16 30
	Price on request	**Price on request**	**Price on request**

BlowTec Central suction and filter unit

Suitable for

Cleaning of polluted room air in a modular design for perfect adjustment to the architecture of the room. The unit is IFA certified for welding fume class W3.

Example: BlowTec

Description

AIRTECH - BlowTec is one of many new developments from TEKA Absaug- und Entsorgungstechnologie GmbH. This central suction and filter unit is the perfect solution for every kind of work that requires more than extraction right at the source.

The biggest advantage: the efficient use of energy and reduction of cost. During heating times the energy costs are considerably reduced by recirculating the cleaned, warm air back into the working area. Alternatively it can also be led outside.

The modular setup of the AIRTECH - BlowTec is perfectly adaptable to the architecture of the room. The ducting that extracts the air and guides it to the movable jets can vary in height and length. Standard dimensions guarantee fast delivery times and quick assembly.

Standard equipment

- Housing made of stable steel plate (powder coating inside and outside)
- Fully automatic dedusting via POWER SPRAY-SYSTEM
- Fan with soundproof housing
- Filter cartridges, category BIA M
- Particle sensor
- Filter unit
- Ventilatorteil
- Control (filter/motor)
- Nozzle head
- Silencer
- Connection between filter unit fan unit and nozzle head
- Filter medium (precoat)
- PE bag for the dust collecting tray

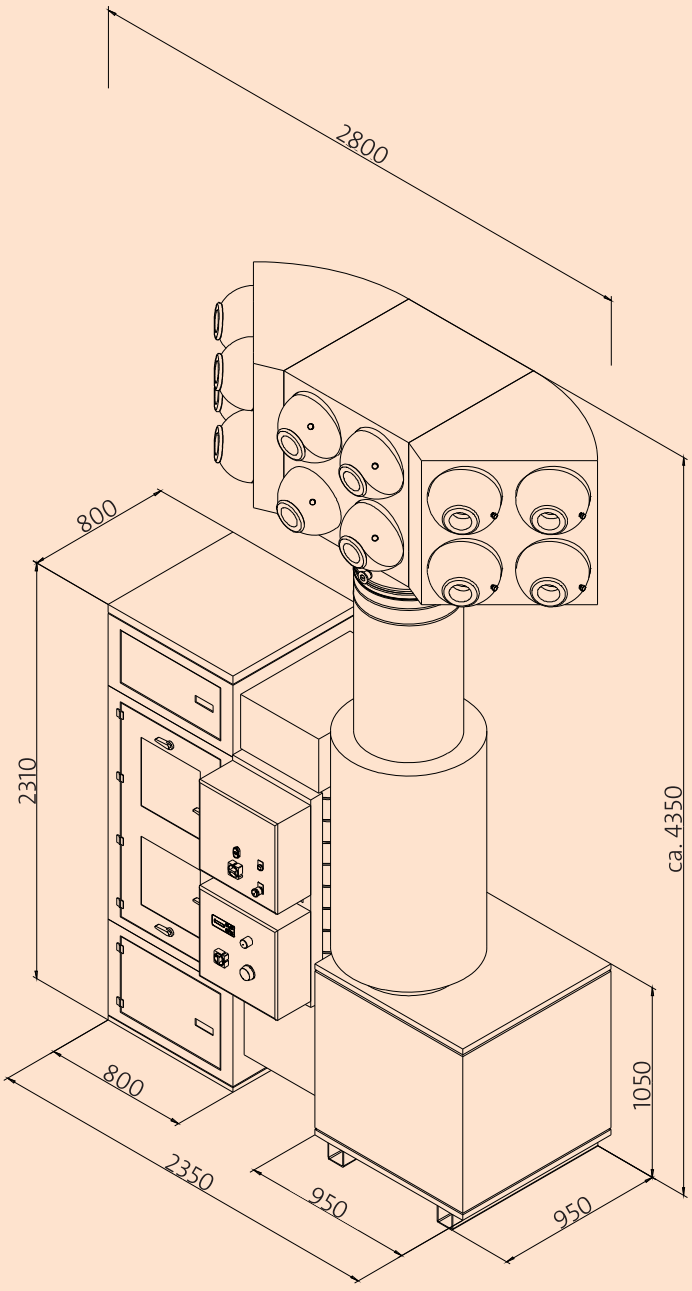
Available as an option

- Extraction ducting
- Frenquency converter

Technical data

BlowTec Central suction and filter unit	
Max. volumetric flow of the fan	7 500 – 10 000 m³/h
Motor performance	7,5 – 11,0 kW
Separation efficiency	≥ 99 %

Our Hotline
+49 28 63 92 82 0



Available versions

BlowTec Central suction and filter unit		
Max. volumetric flow of the fan	*7500 m³/h*	*10 000 m³/h*
Motor performance	*7,5 kW*	*11,0 kW*
Filter surface	*100 m² (4 x 25 m²)*	*100 m² (4×25 m²)*
	BlowTec P7,5 95 014 410 751 003 58	**BlowTec P10** 95 014 411 101 003 58
	Price on request	**Price on request**

PushPull Central suction and filter unit

Suitable for

Cleaning of polluted ambient air in a production hall

particularly even AIR CAPTURE

FILTERCUBE 4H aus System PushPull

Description

A suction at the source often is not enough to undercut the occupational exposure limits for working places and thus to exclude any risk for humans. Therefore it is necessary to additionally ventilate the room.

The pollutants on one side of the hall are extracted by sufficiently dimensioned ventilation grilles and filtered afterwards. On the other side of the hall, the cleaned air is returned into the room – either via ventilation grilles or via nozzles.

Die FILTERCUBE is certified from the Institute of Work Safety (IFA, formerly BGIA) and approved for the welding fume class W3 as a stationary welding fume suction device. A big advantage: the automated filter control allows for a filter cleaning on demand.

Standard equipment

- Fully automatic dedusting via POWER SPRAY-SYSTEM
- Display control unit
- Maintenance doors for all operational areas
- Maintenance door for the filter cartridges housing with inspection window made of laminated safety glass
- Filter medium (precoat)
- PE bag for the dust collecting tray

NOTICE:

The ducting installation is designed to project requirements!

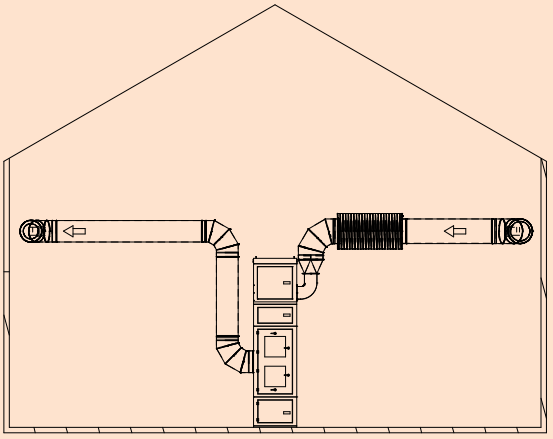
INCLUDING

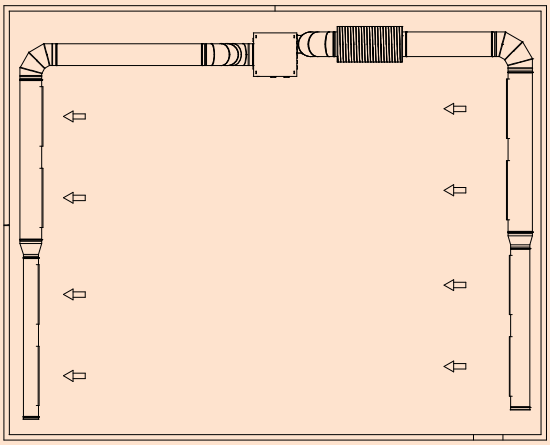
further information on page 76

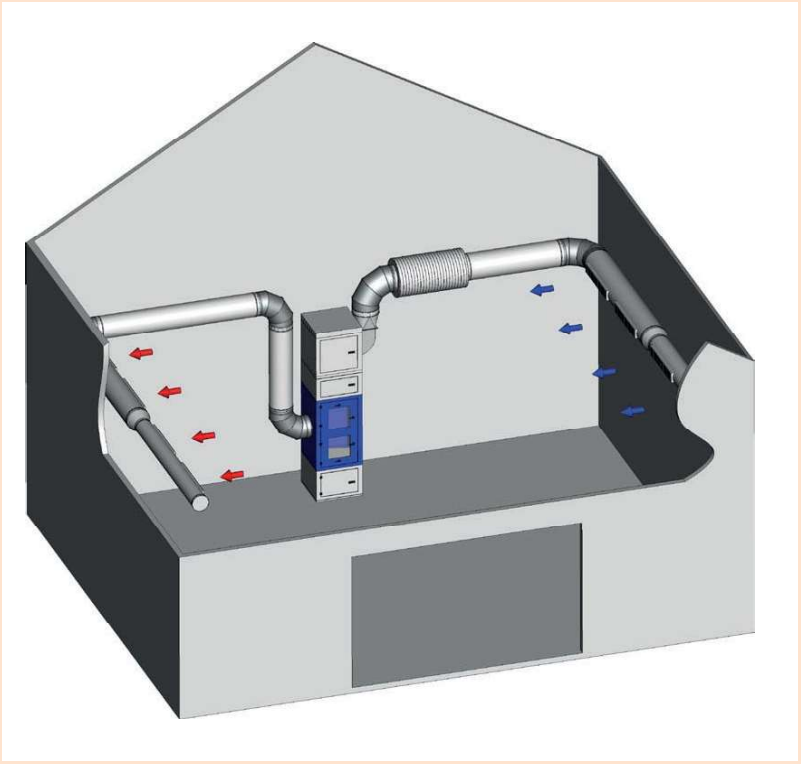
Technical data

PushPull Central suction and filter unit	
Max. volumetric flow of the fan	7500–10000 m³/h
Motor performance	7,5–11,0 kW
Separation efficiency	≥ 99 %

Our Hotline
+49 28 63 92 82 0







Example of set up: PushPull system in a production hall

Available versions

PushPull Central suction and filter unit		
Max. volumetric flow of the fan	*7500 m³/h*	*10 000 m³/h*
Motor performance	*7,5 kW*	*11,0 kW*
Filter surface	*100 m² (4 x 25 m²)*	*100 m² (4×25 m²)*
	PushPull System P7,5	**PushPull System P10**
	Price on request	**Price on request**