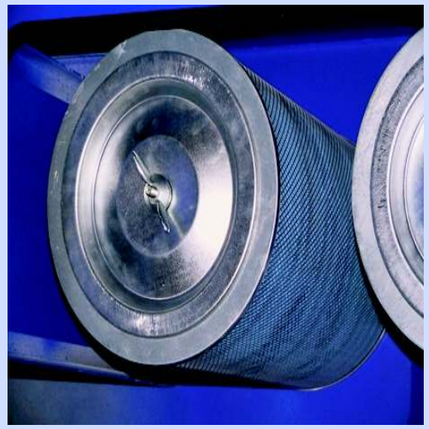
# Environmental technology


Extraction systems and Filter units

The extraction systems and filter units from ZINSER set a new standard for performance, efficiency and productivity. The innovative oval form of the cartridge filters increases the air flow through the collector while prolonging filter life.

Ultra-Web filter media in mesh-like nanofiber technology allow to filter more efficiently than filters with standard cellulose, polyester or cellulose/polyester blend media. By trapping more contaminant on the surface of the filter than depth-loading media, Ultra-Web filters more easily release and expel contaminant from the filter, which results in longer filter life and less filter maintenance.

Standard Features
- Fully integrated system with damper valve
- Range of fan motors, factory prewiring, cleaning mechanism and control board
- “Plug and Go” unit
- Easy installation, no extra wiring
- No extra duct work between unit and fan
- Cleaning mechanism protected from external elements
- Easy and safe access to cartridges
- Low maintenance time
- Easy access to cleaning mechanism and fan set
- Corner installation possible
- Quick-release dust disposal system
- Removable side profiles to allow fork lift transport
- Flat side walls



Equipment Options
- Outside installation
- Front inlet adaptation pieces
- Full range of dust disposal system
- Remote control with low pressure surveillance at the CNC-Control-unit
- Pulse noise attenuation down to LpAeq < 70 dB(A)

Please ask your ZINSER representative for further information.

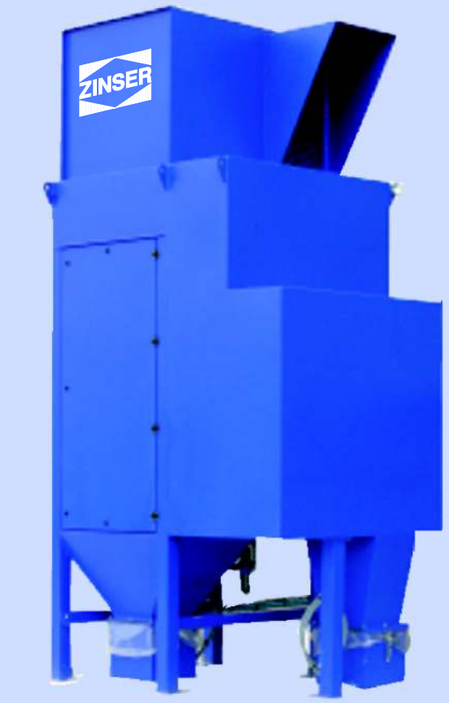
ZINSER SCHWEISSTECHNIK GmbH
Daimlerstr. 4
D-73095 Albershausen
Phone +49 (0)7161/5050-0
Fax +49 (0)7161/5050-100
E-mail info@zinser.de
Internet www.zinser.de

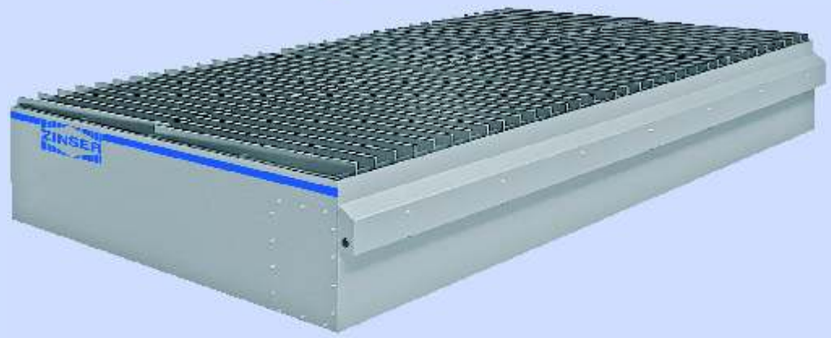
ZINSER

Subject to modifications 09.09 11 001-096a / 504 1001-00096

# Environmental technology from ZINSER

## Systematic air purification in the working environment




- Material support tables
- Self-cleaning extraction systems
- Scraper and oscillating conveyor tables
- Filter and ventilator units

ZINSER SCHWEISSTECHNIK

# ZINSER environmental technology - systematic air purification in the working environment

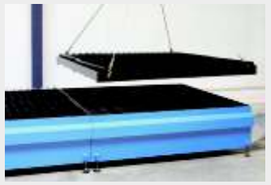
## Take advantage of a problem

During the plasma- or flame cutting process a problem occurs. Due to the high cutting pressure, the dust, sparks and fumes are pushed into the table and get swirled up again to the top. The resulting contamination causes high maintenance cost and leads to a faster wear and tear. Furthermore, especially the emissions caused from plasma cutting are very harmful to health. Therefore a conventional extraction from the bottom or the side would not be sufficient.

The perfect solution to this problem is a ZINSER cutting table.
Due to the high cutting pressure a type of cyclone is created. Thereby coarse particles and sparks are pre-separated in the bottom part of the dust boxes and the finer particles will rise to the top of the table. Here they will be captured by the integrated surface extraction and guided to the connected filter unit.

## Systematic Extraction

The new cutting tables from ZINSER offer optimal extraction, highest security and big cleaning comfort. The innovative construction enables a constant and efficient surface extraction. Due to the design of the tables the risk of sparks reaching the filter is reduced. Due to the modular design nearly all sizes of tables can be realized.



## Sectional extraction

The individual modules of the system are divided into sections. Due to the sections local extraction of the fumes and gases can be achieved and at the same time the extraction capacity can be reduced to lower the costs.

## The control

The sectionalised extraction is controlled contact-free electronically via the ZINSER-CNC-Control.

## Surface extraction

Due to the unique design of the extraction table, the fumes and gases are evenly extracted on the surface of the table. Therefore efficient and safe extraction is provided without sparks reaching the filter unit.

## Material support

By using inclined thin flat steel bars the cut quality on the underside of the material is enhanced. The bars can be exchanged easily and therefore facilitate the cleaning of the table.

## Solid

The ZINSER cutting tables are extremely well built. Steel plates up to a thickness of 300 mm are no problem for the table. (Surface load up to 23,1 kN/m$^2$)

Higher productivity and automation

Before: Cleaning of a conventional cutting table

Today: Automatic cleaning of the cutting table.

## The dust and slag boxes

Due to the large dust and slag boxes of the cutting tables, the maintenance/cleaning intervals are less frequent, this saves time and money.

## The cleaning

Eyelets at all components of the cutting table and the design of the slag boxes enable a very easy emptying and cleaning.

## The modular design

By using standardized modules every desired cutting bed size can be provided.

## Reliable

All parts and components meet the high quality standard at ZINSER. A reliable function of the table even with permanent use is therefore guaranteed.

## Scraper conveyor table

Slag and small parts fall on a steel-plate which is mounted at the bottom of the cutting table.
They are removed into one direction out of the cutting table by a scraper.
Each scraper is powered by roller chains which are mounted in double-sided guide rails. The roller chains are driven by powerful motor-gearbox units. Via a control the function of the conveyor can be set on automatic (permanent or in time intervals) or on manual mode.

## Disposal

At the end of the cutting table it make sense to plan a pit in the foundation into which a container for slag and small parts is placed. This can be removed and discharged with the help of a crane and a fork lift.