EISENMANN



IMPRESSIVE PERFORMANCE AND EXCEPTIONAL EASE OF OPERATION – THAT IS E-CUBE, THE NEW PAINT SEPARATION SYSTEM FROM EISENMANN.

E-Cube is suitable for systems of all sizes and, due to its ingenious filter technology, operates without the need for chemicals, water or other additives – conserving resources and simplifying waste disposal. The cube-shaped design means separation modules require less space for storage; when fully assembled they fit on a europallet. E-Cube can be quickly and efficiently retrofitted to existing solutions that previously featured other separation modules.

Operating principles

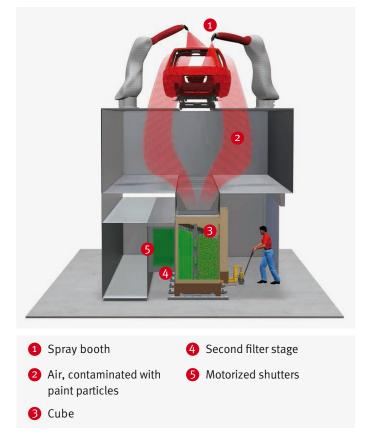
E-Cube is a mechanical overspray separation system situated below a grid in the spray booth. Air, contaminated with paint particles during spraying, is sucked in and routed through the separation system. As it passes through the separation modules, paint particles are removed from the air. There is a second filter stage after the separation modules (also known as 'cubes'), to increase the separation rate. A motor flap ensures that single Cubes can be exchanged independently of one another. System pressure is monitored to ensure steady, consistent operation, without cross-flow. It is possible to recirculate air or utilize a supply and exhaust air system.

Filters replace chemicals, water and additives

The separation modules are hybrid filters, consisting of surface and depth-type filters. Individual filter elements are arranged in such a way as to create a labyrinthine flow path. This configuration provides an ideal sequence of coarse and fine separation, ensuring an even distribution of particles in the separation module. Depending on the type of paint, a separation rate below 1 mg/m³ air can be obtained. Cubes have a high capacity and a service life ranging from one to several weeks, depending on the mode of operation. For example, a cube in a ten-meter long spray booth, operated in three shifts and producing 60 kg of overspray per hour, has a mean service life of one week.

Simple to operate

The cubes themselves are made mostly from recycled material and can be folded during storage and delivery to save space. What's more, they are easy to assemble and replace – this can be undertaken by unskilled staff. As E-Cube does not consume chemicals, water or other additives, waste and associated costs are significantly lower than for comparable separation systems.





E-CUBE A BREATHTAKINGLY SIMPLE SEPARATION SYSTEM

OUR SEPARATION SYSTEMS

Removal system	E-Cube	Venturi (circulation)	E-Scrub (electrostatic)
Features	Simple, no additives	Standard	Best separation, lowest pressure loss
Emissions	< 1 mg/m ³	< 3 mg / m ³	0.3 - 0.8 mg/m ³
Pressure loss	Lower	Standard	Lowest
Operating/maintenance	Unskilled staff	Skilled staff	Skilled staff
Capex	Lower	Standard	Higher
Opex	Lower	Standard	Lowest

Advantages at a glance

- A simple system that is ideal for use in large facilities
- Operation and maintenance can be carried out by unskilled workers
- Requires no chemicals, water or additives
- Can be retrofitted to existing systems
- Reduced waste

EISENMANN

www.eisenmann.com

Eisenmann Anlagenbau GmbH & Co. KG, Tübinger Str. 81, 71032 Böblingen, Germany, Phone: +49 7031 78-0, Fax: +49 7031 78-1000

2015 © Eisenmann Anlagenbau GmbH & Co. KG | 07-2015 | 02

All rights reserved. All text, images, photos and graphics are subject to copyright and other intellectual property laws. Content may only be used with the express permission of Eisenmann Anlagenbau GmbH & Co. KG. All content, including, without limitation, specifications, descriptions and illustrations, are subject to error and change, in particular with regard to ongoing development of our products in line with technological progress. Changes to content will not be proactively communicated. Technical specifications may vary from country to country.