DAS
Environmental Experts.

EDC

Dust System

These systems remove micro- and nano- particles/aerosols from waste gases. A typical area of applications is the photovoltaic, LED, TFT and semiconductor industry.

EDC is an electrostatic dust collector for treatment of particle-containing or aerosol-containing waste gases up to 90 m^3/h.
The dust collector reduces particle emissions of even the finest particles up to 99.9 % and successfully prevents exhaust blockage. It can be used with the most abatement devices and can be equipped with an optional pressure-controlled fan and an optional lye supply system. Access for operation and maintenance is from the front and back. Operation costs and general safety can be optimized with a process-tool-interface.

EDC *PLUS* is the big brother of EDC with an higher capacity for treatment of particle-containing or aerosol-containing process waste gases up to 270 m^3/h.

Features of EDC *PLUS*

› Internal redundancy
› Prewash stage
› Coonection of several upstream burn/wet abatements possible

Basic Features

› Power Supply: 3 x 400 V/50 Hz or 3 x 208 V/60 Hz
› Lye supply system
› Process-Tool-Interface
› Signal Tower
› Drip Pan
› Earthquake Safety Kit
› Ethernet Interface
› SEMI S2 Certification
› Bypass
› High efficient particle treatment by electrical field technology

› Customized wastewater treatment solution available

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Operation Principle

The waste gases are introduced in a pre-scrubber and following in a tank which is simultaneously the storage tank for the scrubbing liquid. The pre-scrubber is equipped with nozzles, which saturate the gas flow with water and create a turbulent flow. Afterwards, the waste gas is channeled into the electrostatic dust collector tube, where the contained particles are ionized and precipitated in a grounded water film on the water wall.

The filtered fine dust is suspended into the scrubber solution. The dust collector is equipped with an automatic self-cleaning mechanism for the emission electrodes. Remaining residual gases meet the standards of the German air pollution law (TA Luft).

www.das-ee.com

Technical Data

	EDC	EDC *PLUS*
Dimensions (W x D x H)	830 mm x 855 mm x 2100 mm	1500 mm x 1000 mm x 2100 mm
Max. Inert Gas Flow	90 m^3/h	270 m^3/h
Max. Gas Entry	DN 100	DN 150
Gas Outlet	DN 100	DN 200