

DALEA

Fine Dust Collector

Point-of-Use waste gas treatment by rotary fine dust collector DALEA

The systems of the Rotary Dust Collector (RDC) series use centrifugal force to separate the fine dust particles. They are based on the purely mechanical rotor-stator principle.

Status

- › Product released 2020
- › more than 20 systems in the field with DALEA technology

Application

- › Secondary abatement behind any dust generating systems

Working principle

- › DALEA uses the RDC (Rotary Dust Collector) technology to separate particles from the gas flow

Basic Features

- › Dust scrubber with liquid recirculation
- › PRE up to 98% (Particle Removal Efficiency) without pressure loss
- › No performance degradation over time
- › Tuneable inlet suction (fan behaviour)
- › Volume flow up to 390 m³/h (6500 slm)
- › Suitable for high dust loads up to 40 g/m³
- › Maintenance cycles > 6 months
- › Low investment costs, CoO and footprint



Centrifugal Force **DALEA**
High capacity, high particle load solution, without pressure loss at up to 390 m³/h, tuneable inlet suction

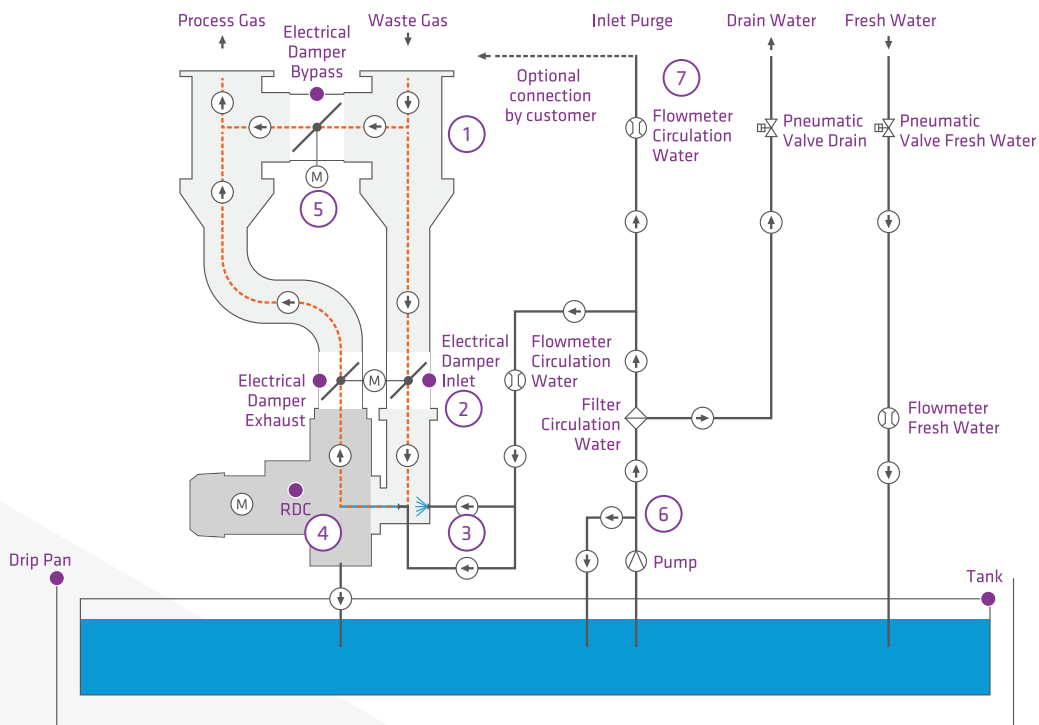
DALEA

Fine Dust Collector

Technical Data

	DALEA
Dimensions (W x D x H)	980 mm x 780 mm x 1658/2012 mm
Maintenance area	Front and back side
Gas entry	DN200
Gas outlet	DN200

System Description



System Description for **DALEA**

- ① Central high-capacity inlet (DN200)
- ② Electrical dampers which allow safe maintenance also during tool process
- ③ Coordinated water atomizers for homogeneous and efficient scrubbing water distribution
- ④ Rotary Dust Collector, key component with rotor-stator principle, removes particles and generates additional underpressure
- ⑤ Bypass system with integrated gas recirculation for higher PREs and smooth underpressure regulation
- ⑥ Pump with high resistance against solid particles with direct water bypass for tank circulation
- ⑦ Addition scrubbing liquid outlet available to clean upstream piping