

Date \_\_\_\_\_  
 Company name \_\_\_\_\_  
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## Basics

Ambient temperature min. \_\_\_\_\_ °C max. \_\_\_\_\_ °C  
 Operation temperature min. \_\_\_\_\_ °C max. \_\_\_\_\_ °C  
 Exhaust air rate (operation) \_\_\_\_\_ m³/h Altitude above sea level of plant \_\_\_\_\_ m  
 Daily operation \_\_\_\_\_ hours Operation during \_\_\_\_\_ days / week  
 Max. sound pressure level in 1m distance 82 dB(A) or  \_\_\_\_\_ dB(A) in distance of \_\_\_\_\_ m  
 Ambient Ex-Zone  22  21  2  1  none Installation site  Indoors  Outdoors  
 Recirculation of clean air  Yes  No Product recovery  Yes  No  
 External pressure required \_\_\_\_\_ Pa (for pressure loss of the piping, collection, etc. without filter unit!)

## Process (Dust generating process)

Intended use \_\_\_\_\_  
 No spark entry from the process in the filter unit or  \_\_\_\_\_  
 Processed materials \_\_\_\_\_ Additives \_\_\_\_\_ Gases \_\_\_\_\_  
 (Process-)Temperature \_\_\_\_\_ °C Collection  Object  Cabin  Hall

## Material parameters – Dust / Product

Designation dust / product \_\_\_\_\_  
 Raw gas loading \_\_\_\_\_ g/m³ Dust output  Continuous  Discontinuous  
 Characteristic  Adhesive  Contains oil  Hazardous to health  Toxic  
 Abrasive  Conductive  Electrostatic chargeable  Dry  
 Hydrophobic  Hygroscopic  Agglomerating  Free Flowing  
 Dust without auto-ignition or  \_\_\_\_\_  
 Combustible Combustibility:  BZ1  BZ2  BZ3  BZ4  BZ5  BZ6  
 Explosive Minimum Ignition Energy (MIE) > 3 mJ or  \_\_\_\_\_ mJ  
 Explosion overpressure p<sub>max</sub> = 9 bar or  \_\_\_\_\_ bar  
 Dust Ex-Class  St1  St2  St3 K<sub>St</sub>-value \_\_\_\_\_ bar m/s  
 Particle shape  Ball-shaped  Platelets  Shavings  Fibrous  Hook-like  
 Particle size  <1µm  <5µm  <10µm  <50µm  <100µm..  >100µm  
 Bulk density \_\_\_\_\_ g/l Dust density \_\_\_\_\_ g/l (=kg/m³) Dust temp. \_\_\_\_\_ °C

## Material parameters – Gas (without Dust / Product)

Designation gas \_\_\_\_\_  
 Exhaust air rate (operation) < 0.2 mg/m<sup>3</sup> or  \_\_ mg/m<sup>3</sup> Air moisture (gas)  $\varphi_{rel}$  \_\_\_ %  $\varphi_{abs}$  \_\_\_ g/kg  
 Characteristic  Toxic  Combustible  Corrosive  Hazardous to health  Explosive  
 Ex-group  IIA  IIB  IIC Temp.-Classification  T1  T2  T3  T4  T5  T6

## Dust collector – design

\*stainless steel

Material Housing  Carbon steel  W1.4301\*  W1.4541\*  W1.4571\*  \_\_\_\_\_  
 Stainless steel only product contacting  Stainless steel pressure tank (cleaning)  
 Operational pressure +/- 0.1 bar or  \_\_\_ bar Gas tightness (according to AA-PEM-021)  Yes  No  
 Ignition sources  Const. Potential Equalization:  all parts  product contacting parts  
 Fire protection  Monitoring  Extinguishing equipment  
 Extinguishing agent:  N<sub>2</sub>  Ar  CO<sub>2</sub>  Powder  
 Ex-protection  Pressure relief  rupture disc  Upright vent-off  Horizontal vent-off  
 vent-off channel \_\_\_ m  
 Q-tube (flameless)  Q-box (flameless)  
 Pressure relief valve (flameless)  
 Suppression  
 Pressure shock resistant design \_\_\_ bar  Pressure resistant design \_\_\_ bar  
 Explosion decoupling by customer or  \_\_\_\_\_  
 Ex-zone Raw gas  1  2  20  21  none Clean gas  1  2  22  none  
 Discharge  Bin/Container  Rotary air lock  Vacuum air lock  \_\_\_\_\_  
 Fan  Fan, top-mounted  In acoustic hood  Fan, mounted aside  
 Side-channel blower, top-mounted  Downstream sound absorber  
 Electrics Power Supply 400V 50Hz or  \_\_\_\_\_  
 Solenoid valves voltage 24 V DC or  \_\_\_\_\_  
 Cleaning Compressed air or  \_\_\_\_\_ Supply feed min. 5.5 bar or  \_\_\_\_\_ bar  
 timer based  differential pressure based  \_\_\_\_\_

## Further data

Collection \_\_\_\_\_  
 Set-up  Plot pant enclosed/on hand:  Yes \_\_\_\_\_  No \_\_\_\_\_  
 Documentation  Dust sample sent out to R & D  Safety data sheet (MSDS) available  
 Customer's specifications  Factory standards  
 Language required for the documentation: \_\_\_\_\_  
 Country of destination (set-up site of the dust collector): \_\_\_\_\_  
 Country specific regulations: \_\_\_\_\_  
 Other things to be considered: \_\_\_\_\_

Location, date

Signature (customer) and company stamp