

## Checklist for Repair / Maintenance of Centrifugal Fans of ATEX Execution Category 2G / 3G

Fan Type			
Serial Number:		Year of construction:	
<b>Legend:</b> √ = checked and ok.    – = not relevant    f = faulty (action required)			
<b>GENERAL:</b>			<b>checked</b>
Visual control for damages or obvious faults?			
For direct coupling: Drive aligned with Laser-Aligning device acc. to manufacturer's instructions?			
Belts are electrically conducting?			
Alignment of pulleys checked with alignment ruler or laser device?			
Screws and bolts of Taperlock hubs of belt drive tightened by torque wrench / double checked?			
Belts tensioned acc. to data sheet / double checked?			
Motor fits to ATEX-requirements (category acc. to design data or pressure resistant encapsulated motor with certified PTC-thermistors when being inverter operated)?			
<b>CASING:</b>			
Painted scroll parts and accessories electrically connected (Conductivity test)?			
Intake cone made of copper or with copper ring			
<b>IMPELLER:</b>			
Screws and bolts of Taperlock hub of impeller tightened by torque wrench / double checked?			
After having fitted the impeller hub – has axial locking screw been tightened / double checked?			
Gap between impeller and intake cone correspond to manufacturers instructions (Maintenance instructions) / double checked?			
<b>DOCUMENTS</b>			
ATEX Maintenance instructions at hand?			
ATEX motor certificate at hand?			
<b>TEST RUN:</b>			
Test run made?			
Rotational direction of impeller double checked, subjective evaluation of noise of the fan, motor, bearings made?			
Vibration test made?			
Motor current checked?			

**All a. m. operations may only be executed by professionally trained persons.**

It must be ensured that no explosion hazard exists during these actions. After having made the checks and interventions it has to be documented which works have been executed. And confirmation has to be made that all relevant prescriptions and checks which are required by the manufacturer have been made prior to putting the fan into operation.

If important changes are made which could reduce the explosion protection a check with an expert will be mandatory. This will not be necessary if the modifications have been made by the manufacturer of the machine concerned.

**Only original spare parts supplied by the manufacturer may be used.**

If needed our service team can be called. Contact data may be found with [www.nicotra-gebhardt.com](http://www.nicotra-gebhardt.com)