

Quality Statement for Heat Resistant Fans

We have started to build our first heat resistant fans about 30 years ago.

Today we can supply fans for:

- class F200 (EN 12101-3, 200°C/2h)
- class F300 (EN 12101-3, 300°C/1h – our fans fulfil 2h)
- class F400 (EN 12101-3, 400°C/2h)
- and also special designs up to 700°C (2h).

To achieve these resistance classes several components of a fan need to be designed correctly:

- the motor
- the impeller
- the motor cable
- the electric terminal box of the main power supply
- fail-safe anti-vibration mounts (positive locking design)
- fan support structure
- optional service switches

We exclusively use electrical motors that

- are certified by the motor makers themselves to fulfil EN 12101-3 classes (F300/F400)
- have been officially tested inside our fans by authorised authorities - a lot of competitors have not done these tests inside their fans – as required by EN 12101-3. They only use motors that have been tested separately outside their fans by the motor makers
- are equipped with the correct motor cable/bearing type/grease system that was documented by the authorised authorities
- which have been tested in horizontal and vertical installation position – several competitors have done tests only in horizontal position

According EN 12101-3 we are monitored every six months by independent authorities that we build all heat resistant fans 100% similar to what has been certified – and in this context the authorities also check that the motors used/supplied 100% fulfil the demands of the original approval.

All this is complicate and expensive – but it gives our customers the safety they need: ALL our heat resistant fans are REALLY heat resistant in case of emergency.

At a lot of projects this has been separately checked by our customers themselves at separate heat tests they have done as part of their project – and we never failed!



Karsten C. Witt
Manager Quality Assurance

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