

for dry transformer cooling





Ventilation technology for dry transformer cooling



Dry transformers – which require solely air for cooling – must dissipate the heat loss build-up in the windings through the coil surface to the cooling air without exceeding the permissible insulation class excess temperatures inside the coil. Optimised cooling facilitates temperature reduction for the high-voltage winding and uniform temperature distribution for the entire transformer.

Higher peak loads can be absorbed by using dedicated cooling accomplished with ZIEHL-ABEGG fans. This option provides freedom for development when designing the systems for new plants. In existing plants, corresponding retrofitting measures can achieve considerably higher performance.

Benefits of the forced ventilation of dry transformers

- · Higher material utilisation factor
- Higher peak loads
- Higher performance in existing plants becomes feasible
- Constant temperature of the dry transformer and consequentially longer service life



ZIEHL-ABEGG solutions

Regardless of the system or solution you decide on, ZIEHL-ABEGG is always the right choice

Successfully established solutions with cross-flow fans





The alternative

The new, clever solution for optimised cooling through flexible ventilation technology with scroll fans



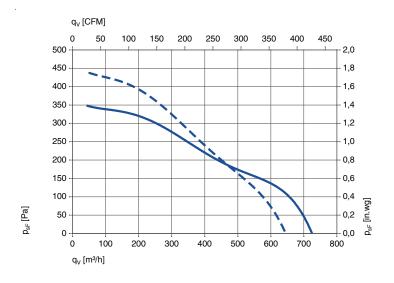
The new system comprises double inlet centrifugal fans which are mounted hinged on profile rails. The fans can be variably positioned on these.

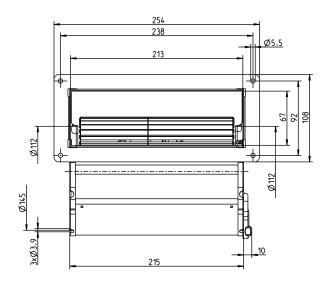
Advantages

- · Flexible air volumes through various numbers of fans
- Dedicated cooling of the hot spots through directional airflow on the coil core
- Exact positioning of the fan using variable rail lengths
- Flexible attachment system through variable interface on the existing transformer construction
- Reduced installation effort and easy accessibility during maintenance
- Reduced fan type variety
- Simple installation
- ErP compliant



Technical Data





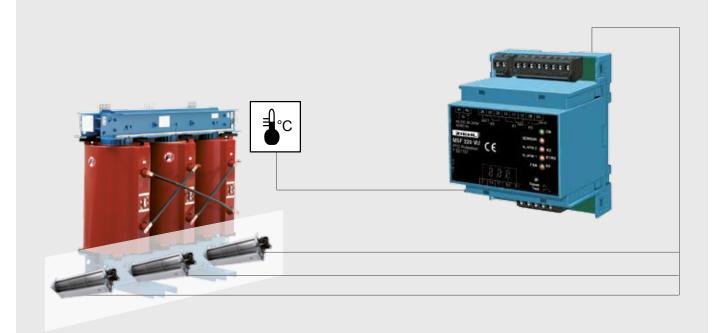
Characteristic curve data, series RD13S higher air-handling capacity on request

A perfect match for optimal performance Transformer protection with PTC's

- Special monitoring and protection devices
- PTC relay with 2 or 3 PTC temperature sensor circuits
- Specially developed to protect dry transformers
- · Integrated fan controller and monitor
- All products from one, single source

Aapplication areas

- Control of fans on dry transformers
- Retrofitting of fans on dry transformers for higher performance



The Royal League

