

ERH 10-04

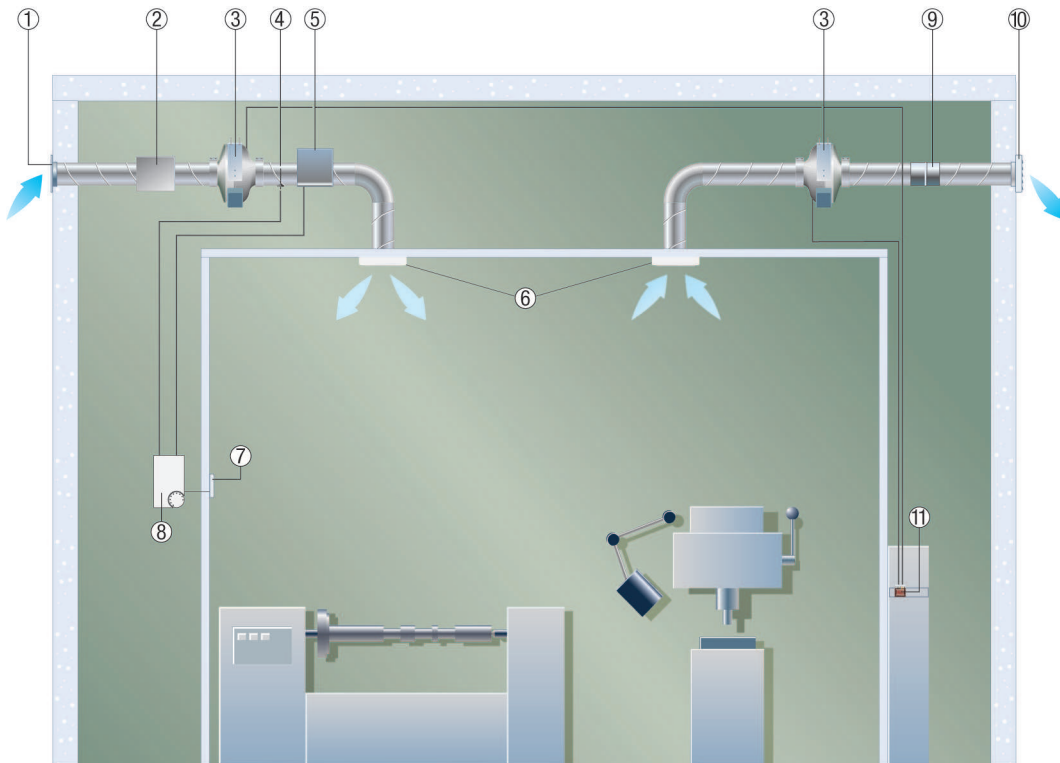
Supply and exhaust air with electric air heater

The diagram shows the interaction between the various components of a ventilation system:

The air filter, fan and electric air heater follow one another in the supply air ducts. The ETL temperature control system with FR 30 P temperature sensor controls the temperature of the supply air using an electric air heater.

The fan and shutter are positioned one after another in the exhaust duct.

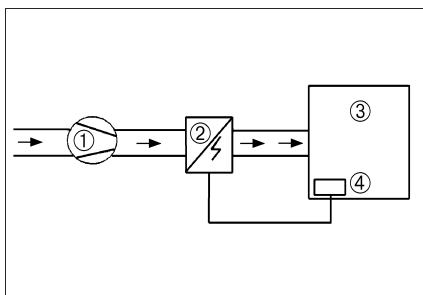
A 5-step transformer controls the fans in the exhaust and supply air ducts, thereby ensuring that the neighbouring room is ventilated and air extracted from it in a coordinated way.



- ① MLA / MLZ external grille
- ② TFE... air filter
- ③ ERR Duct fan
- ④ LW 9 air flow monitor
- ⑤ ERH electrical air heaters
- ⑥ LGA / LGZ internal grilles
- ⑦ FR 30 P room temperature sensor
- ⑧ ETL electronic temperature control system
- ⑨ AVM Backflow preventer
- ⑩ AS shutter
- ⑪ Control cabinet with TR..S 5-step transformer with ESS 20 5-step switch

Constant room temperature

Temperature measurement with integrated sensor in ETL 16 P or DTL 16 P

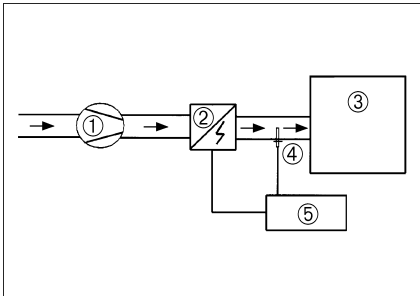


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- ① Fans
- ② Electrical air heater
- ③ Room
- ④ ETL 16 P, DTL 16 P

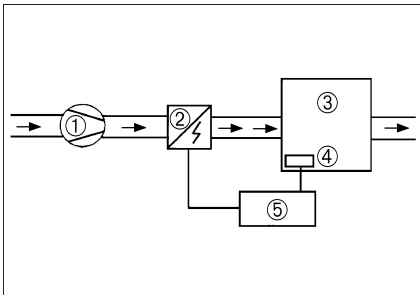
Constant supply air temperature with FL 30 P channel sensor

Limitation of the maximum supply air temperature with FL 30 P channel sensor



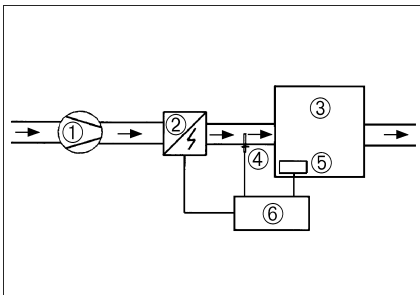
- ① Fans
- ② Electrical air heater
- ③ Room
- ④ FL 30 P channel sensor
- ⑤ ETL 16 P

Constant room temperature with FR 30 P room sensor



- ① Fans
- ② Electrical air heater
- ③ Room
- ④ FR 30 P room sensor
- ⑤ ETL 16 P

Constant room temperature with FR 30 P room sensor and FL 30 P channel sensor



- ① Fans
- ② Electrical air heater
- ③ Room
- ④ FL 30 P channel sensor
- ⑤ FR 30 P room sensor
- ⑥ DTL 16 P