



Schwank

Innovative Heizsysteme

Herring-bone Systems – Collection of flue gases

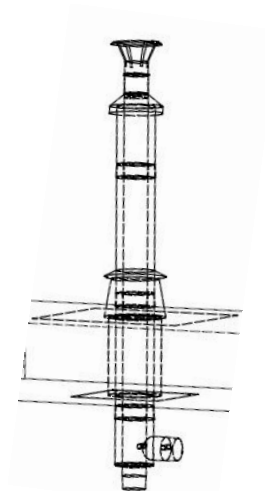


Range of applications

Why a herring-bone system? Reasons:

- For energy recovery systems to collect heat from all installed heaters, e.g., hybridSchwank to recover up to 15% of installed heating power
- The customer prefers only one chimney [penetration through the roof]
- **Germany only:** reduction of chimney sweeper cost due to only one measurement

hybridSchwank
ENERGY RECOVERY TECHNOLOGY



System Comparison

Herring-bone System

- Identical tube heater body
- Difference:
 - No fan at tube heater, but one collective fan at the end of the exhaust system



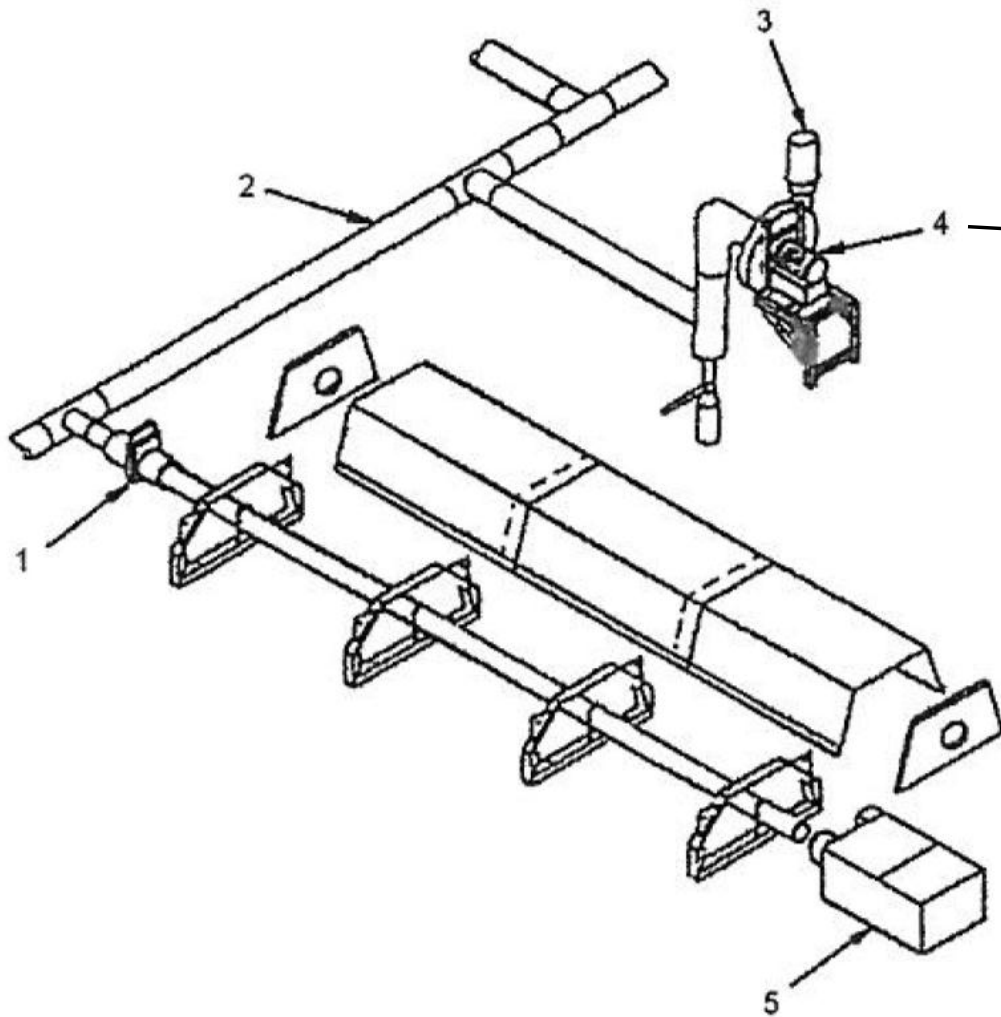
Schwank tube heater single exhaust
[Burner with fan]



Schwank tube heater collected exhaust
[Type Herring-bone; burner without fan]

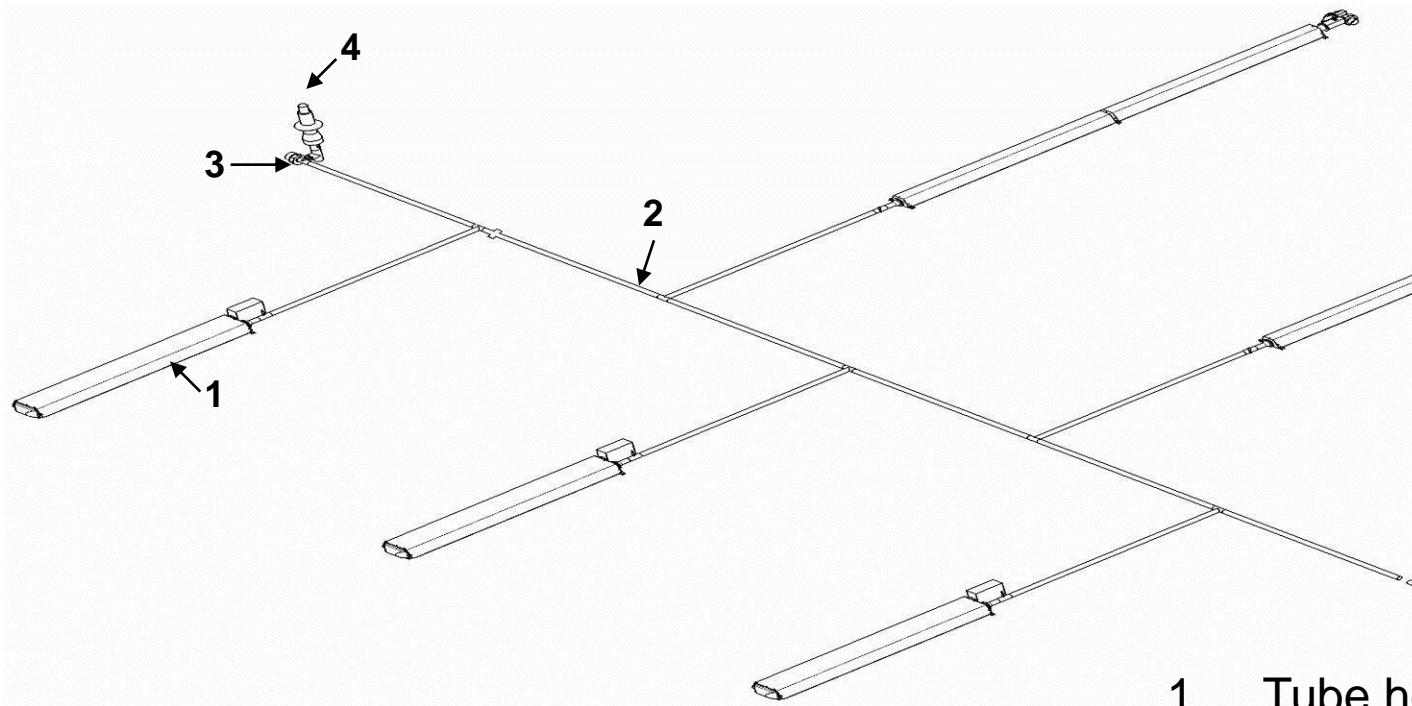


Components



1. Throttle valve
2. Exhaust collection pipe
3. Chimney
4. Exhaust fan
5. Burner unit without fan

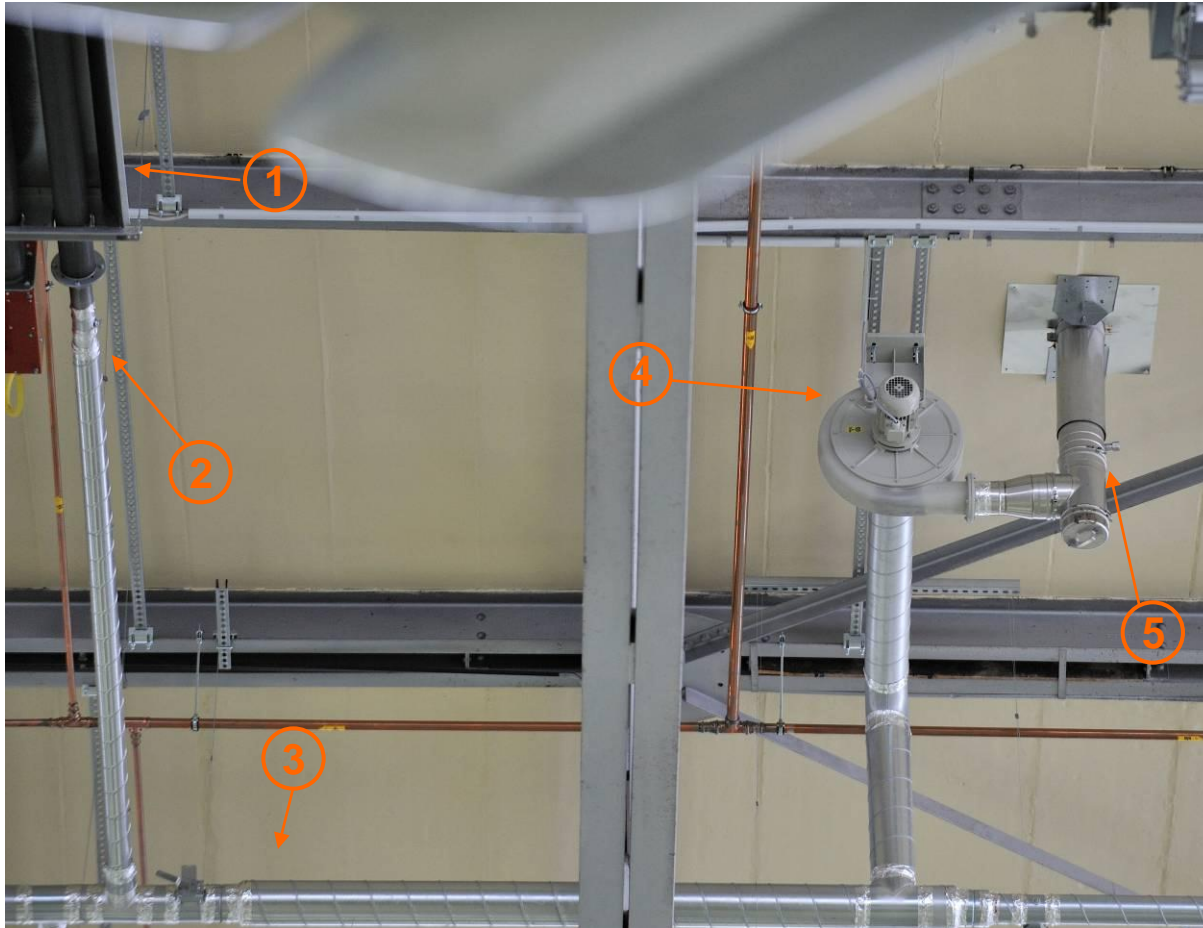
System Overview



1. Tube heater
2. Exhaust collection pipe
3. Exhaust fan
4. Chimney

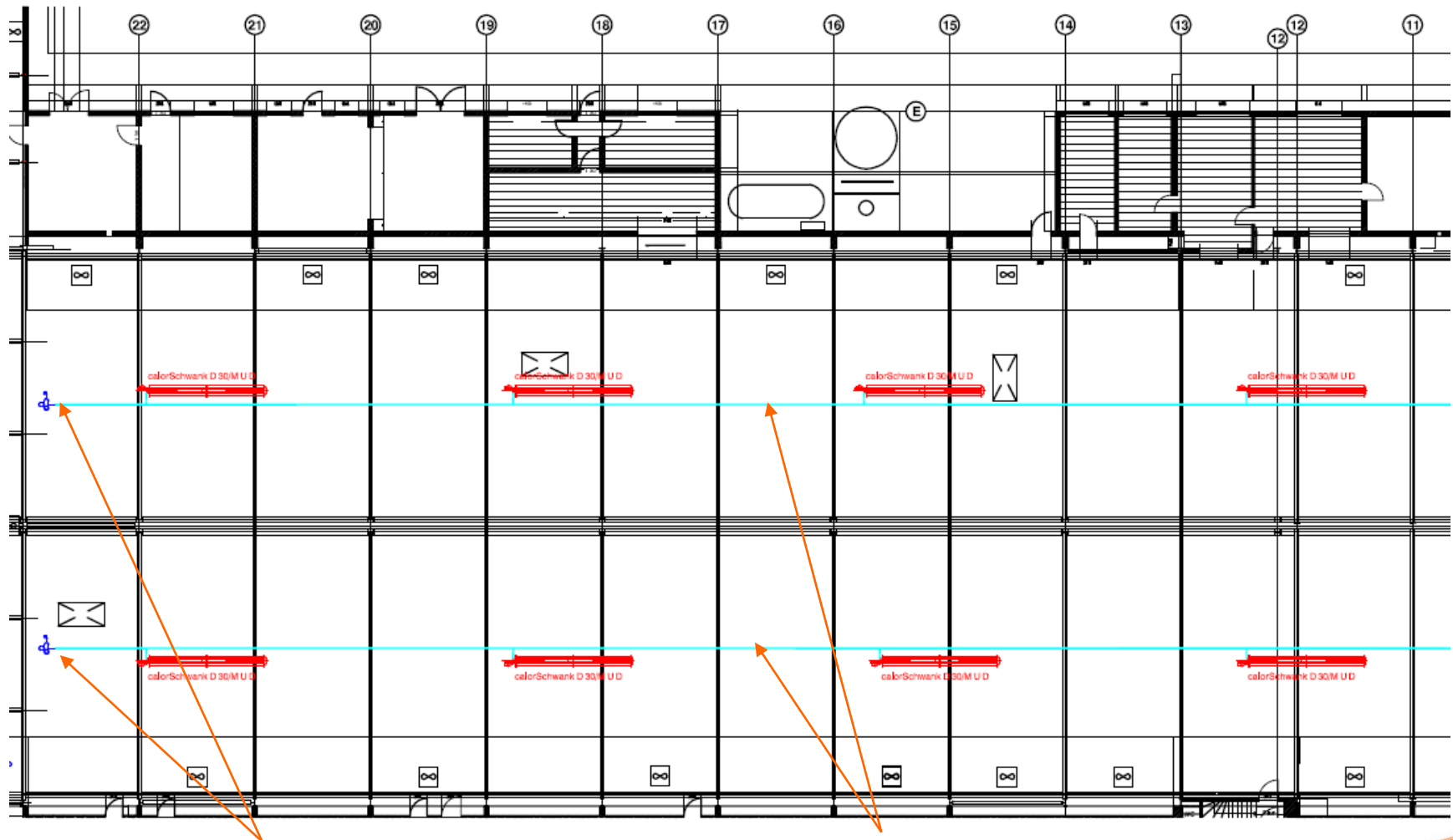


System Overview



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Installation Example

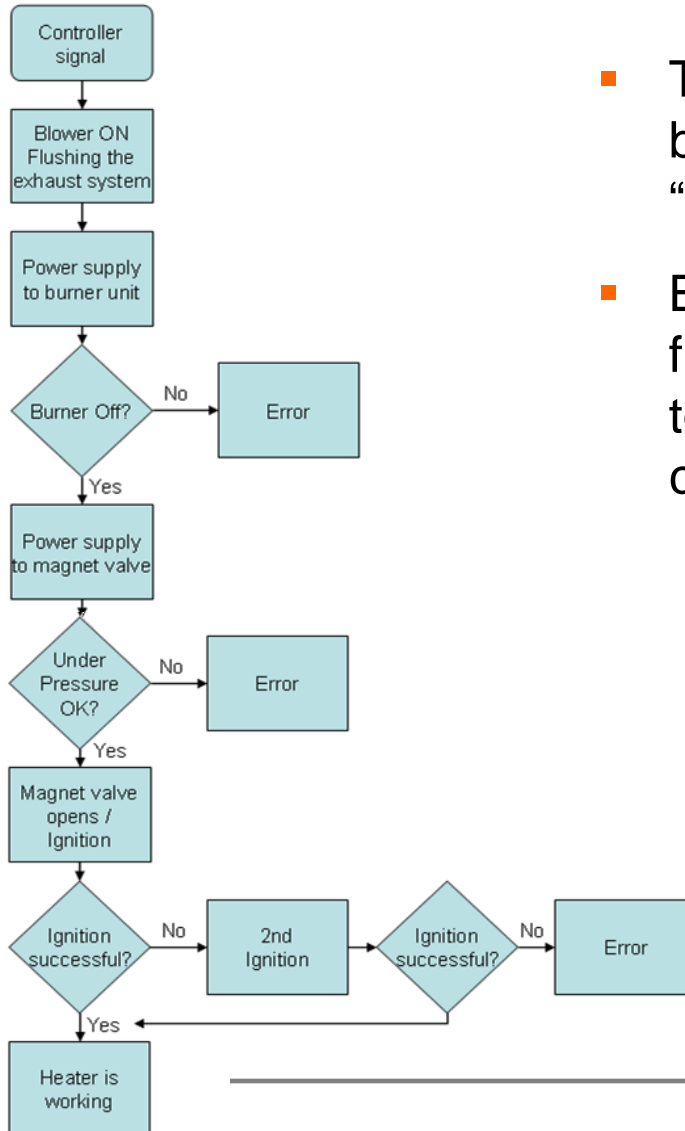


Exhaust fans

Flue gas pipes



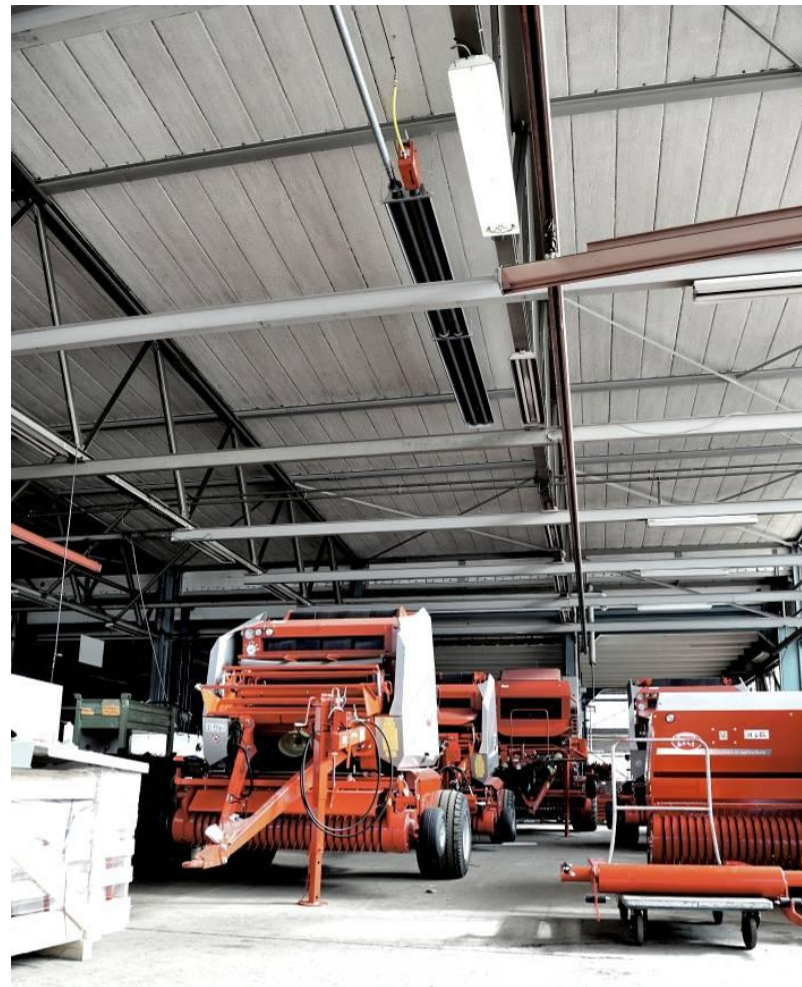
Ignition procedure



- The exhaust fan will also be controlled by the ThermoControl Plus M type “SAV”.
- Before and after operation the fan flushes the connected exhaust system to ensure a clean and safe combustion.



Applications



Applications



Applications

