



tetraSchwank

Utilises „Free“ Flue Heat and Reduces Pay-back

Tube Heater
+ Heat Recovery

+ Condensing Technology

110% Energy Efficiency
+ intelligent Control System

= tetraSchwank

hybridSchwank
ENERGY RECOVERY TECHNOLOGY

Heat Recovery

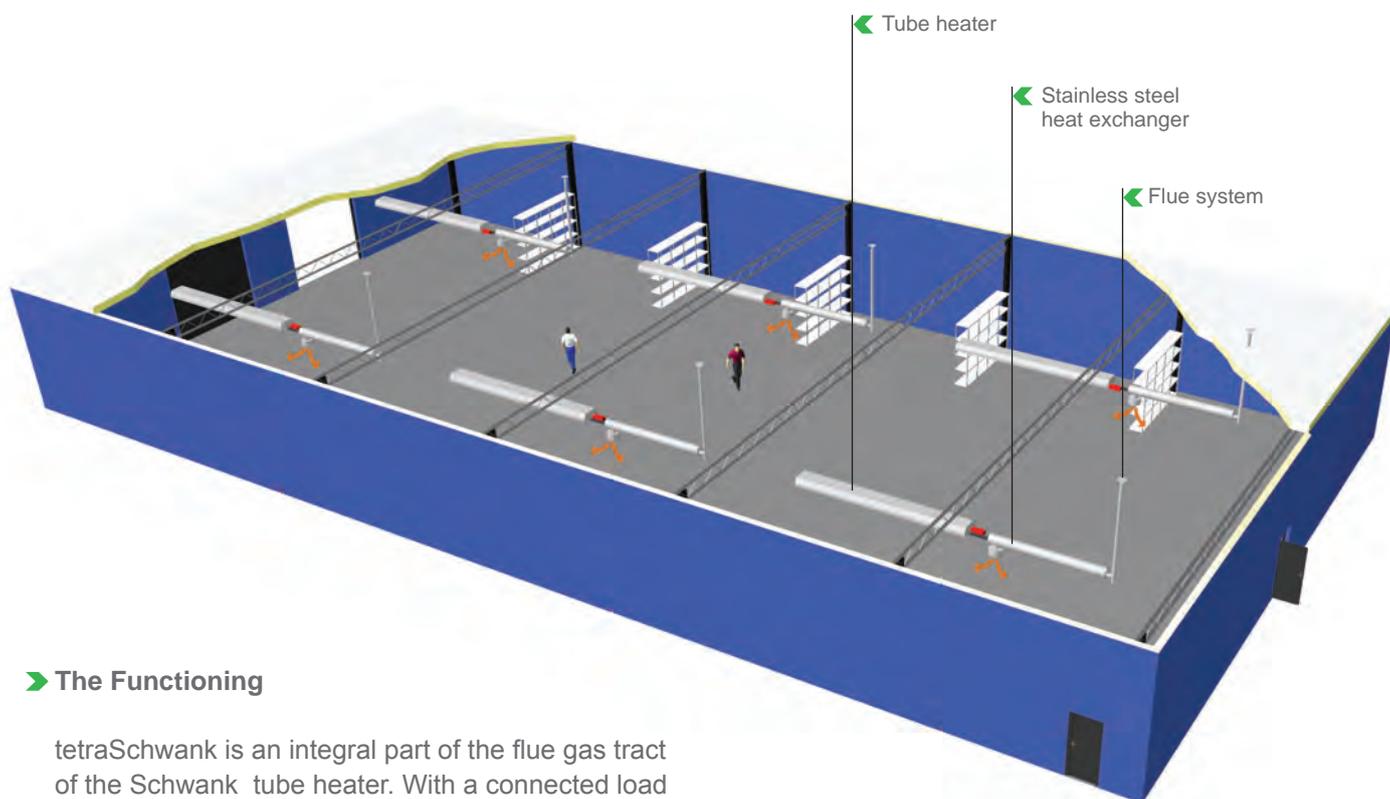
► tetraSchwank – Condensing Technology for industrial heating systems

tetraSchwank combines **heat recovery**, **condensing technology**, efficient Schwank **tube heaters** and an intelligent **control system** to create a heating system with an energy efficiency of up to 110%.

tetraSchwank recovers energy thought to be lost from the flue gas and directly feeds it back to the space to be heated.

There are four [hence: tetra] good reasons why the new heat recovery system by Schwank will pay off quickly whilst also reducing the operating costs.

The objectives of the Schwank engineers were: The creation of a low-cost heat recovery system which is able to exploit the flue gas heat without using any intermediate heat storage capacity or medium.



► The Functioning

tetraSchwank is an integral part of the flue gas tract of the Schwank tube heater. With a connected load of max. 40 kW, it recovers the heat energy contained in the flue gas emission by way of a counter flow process [condensing technology] and immediately reintroduces the recovered heat to the building.

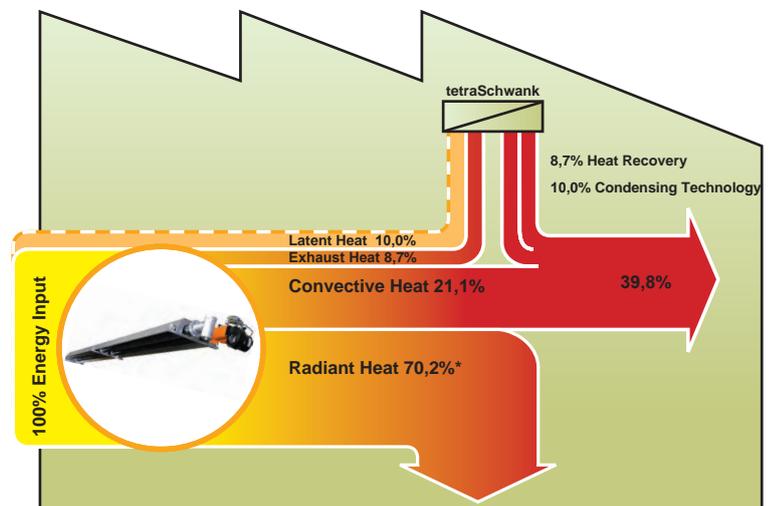


➤ Application

In combination with Schwank tube heaters, tetraSchwank recovers unused waste heat making it immediately available.

Your advantages at a glance:

- Utilisation of „free“ waste heat
- Utilisation of condensing technology
- Significant increase of the heating output of up to 110% [Hi]
- Quick pay-back
- Direct heat without intermediate storage



* radiant factor of a calorSchwank 30 measured by DVGW laboratory according to DIN EN 416-2

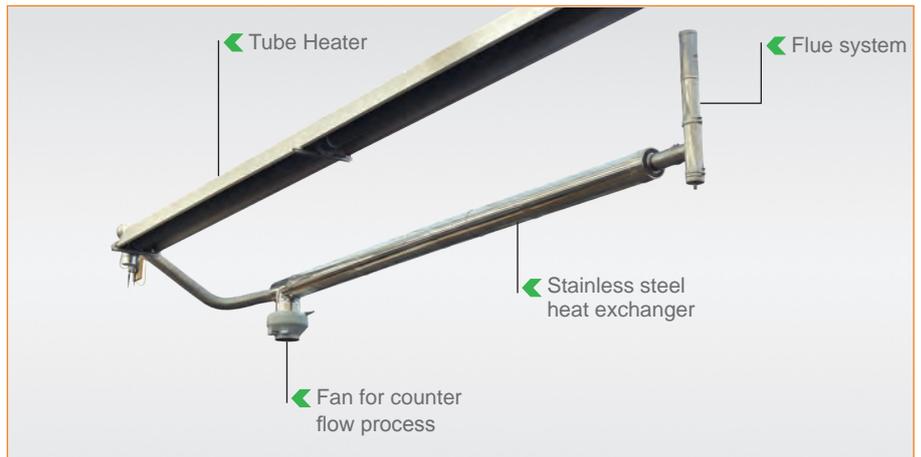
Energy flow chart: Schwank Tube Heater + tetraSchwank

tetraSchwank is the **No. 1 heating system solution in terms of cutting down on operating costs** – ideal for low to medium height buildings.

Added value: tetraSchwank boosts the output of the radiant tube heater by up to 110% efficiency due to its condensation technology.



➤ **Technical details of heat recovery system:**



Energy efficiency:	max. 110%
Condensing technology:	yes
Material:	stainless steel
Dimensions:	L = 4,700 mm, \varnothing 200 mm
Weight:	ca. 31 kg
Heat input:	15 to 40 kW [U-Form] 15 to 30 kW [L-form]
Volume flow [fan]:	up to 800 m ³ /h
ΔT_{max} [air]:	15 K



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