



# Schönhammer

Heat exchangers  
Venting systems

## Heat exchangers



*Exchanger WVTL*



*Exchanger WVT*



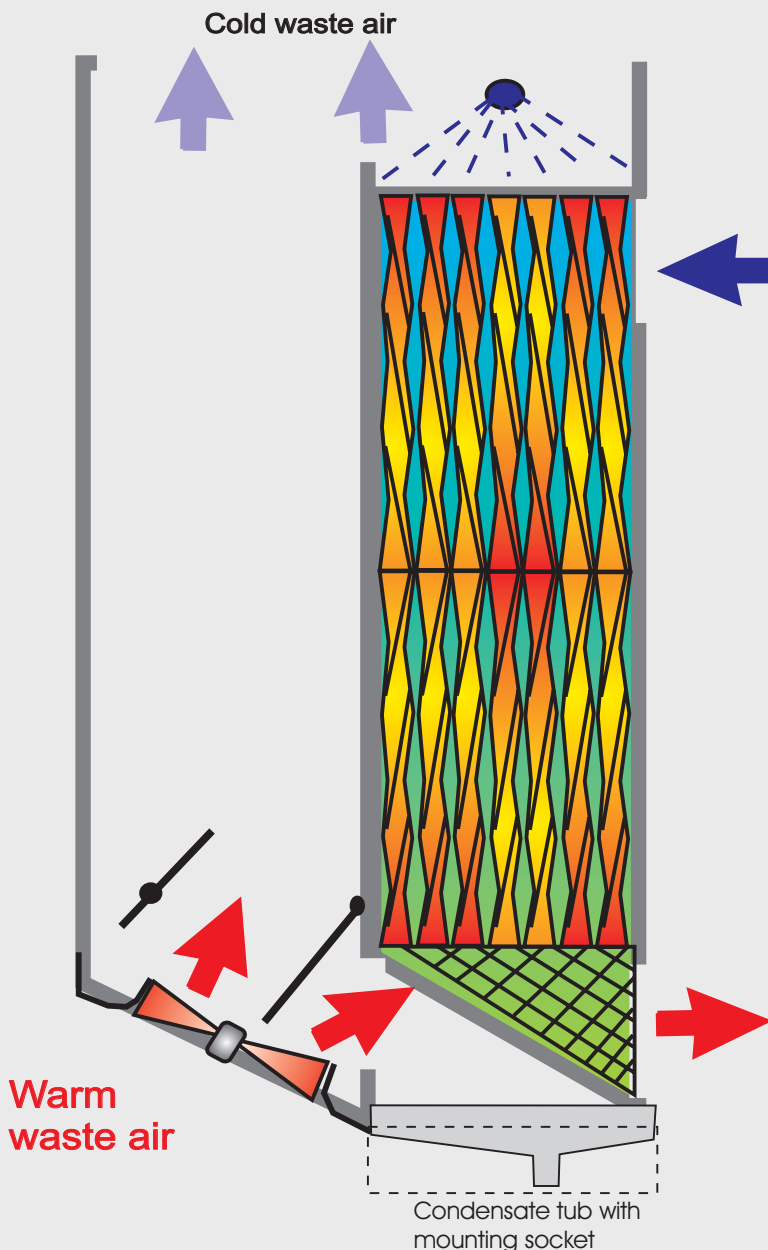
*Double-Exchanger WVTL*

# Heat-recovery

by displacement heat exchangers

# Spiral-Displacement-Heat-Exchanger

**The new generation** of heat-exchangers  
**Antispiral-system** for the waste air  
**Displacement-effekt** for the fresh air



Highest efficiency by discontinued displacement of the air and a better exploitation of the exchanging surface.

Smooth surface in spiral form with very good self cleaning property.

With an heat exchanger the humidity and temperature in the room are optimized.

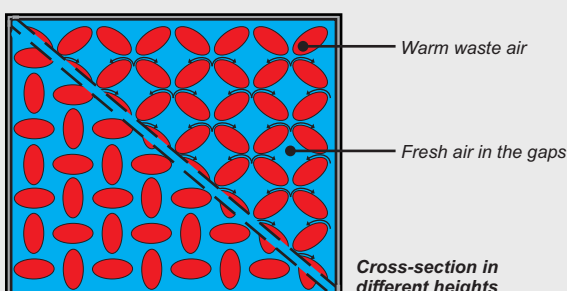
The system is made of plastics with a long lifespan.

Built in sprinkler system above the exchanging unit for cleaning in spring and autumn.

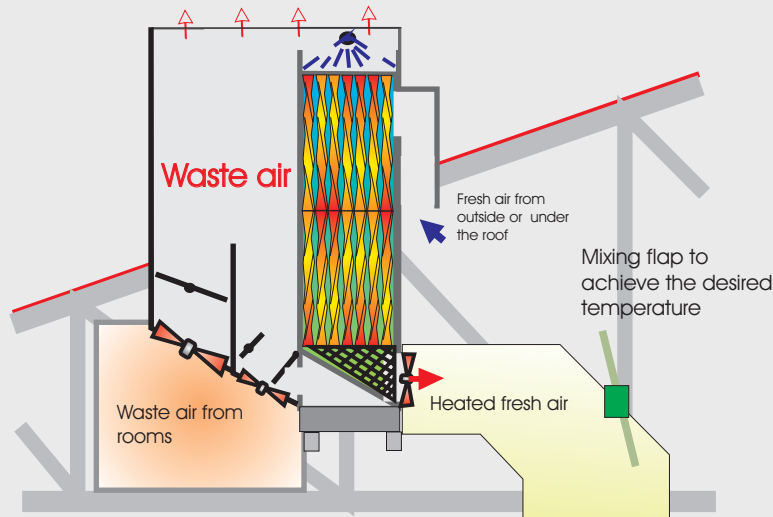
The exchanging unit has a low height and so it is possible to integrate it into existing venting systems.

Completely assembled and compact apparatus shortens work at the building site.

Very efficient price-performance-ratio as well as the highest measured heating power and heat exchange efficiency in comparable heat exchanger systems measured by the DLG ( a member of ENTAM, DLG report 4962)



# Installation possibilities



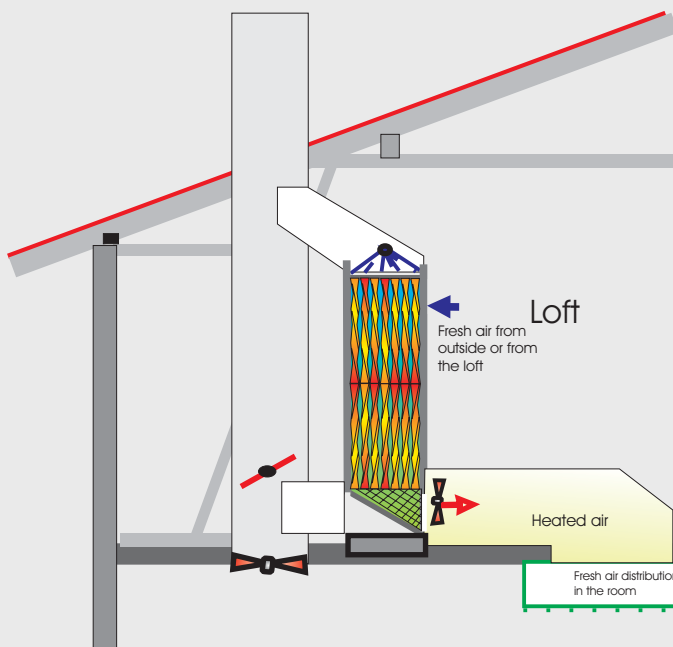
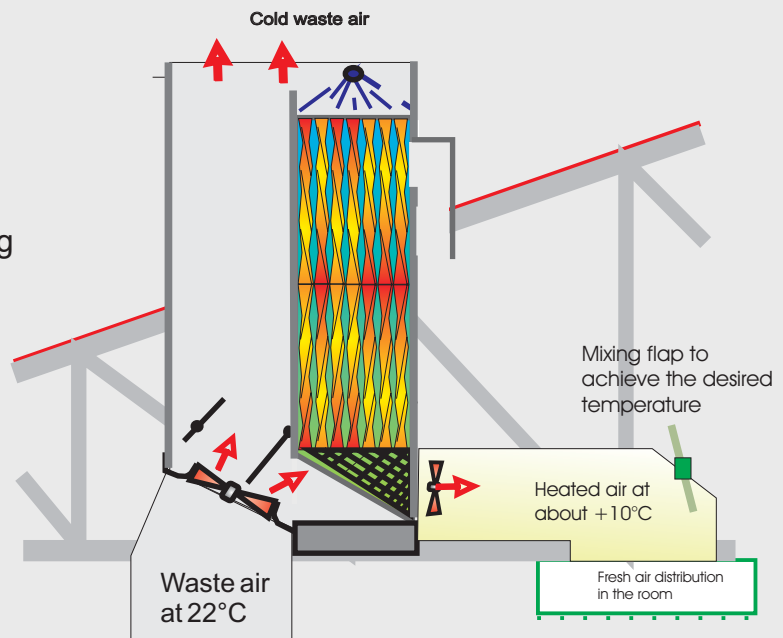
## Combined heat exchanger EWVTL

The combined heat exchanger EWVTL is equipped with 2 fans. Only the first is needed for low air volumes. The second is switched on for summer operation.



## Combined system WVTL

Heat exchanger with built in venting part. The waste air is directed by a flap. It can be ordered as a version for outside or inside the building. If there is a high loft a chimney can be set on top. The fresh air is heated by the heat exchanger and then blown into the fresh air distribution.



## Heat exchanger WVT

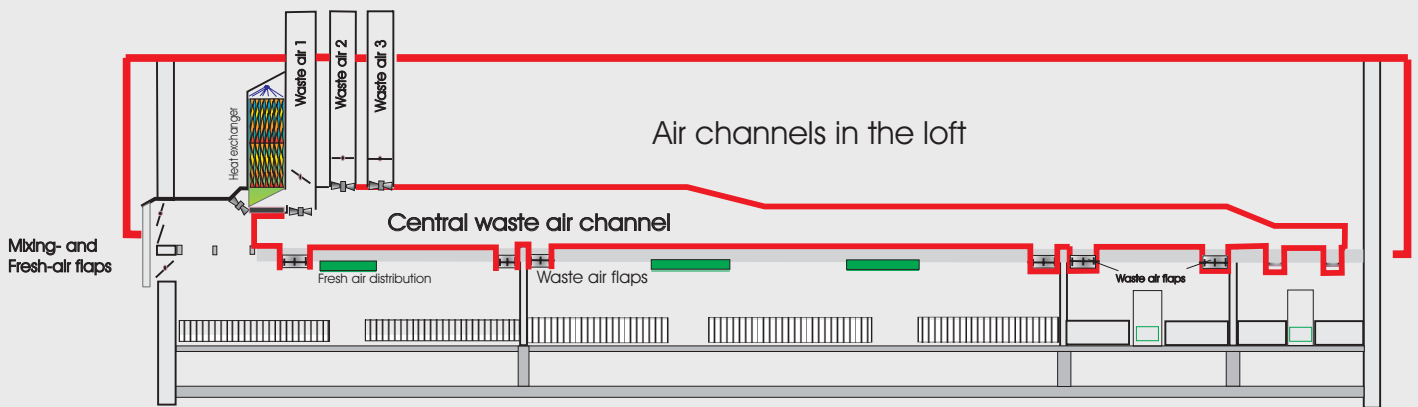
This type of heat exchanger is used in existing ventilation systems and when a heat exchanger has to be combined with a round chimney. The waste air is directed into the exchanger by a flap and is brought back into the chimney after the exchanger.

## Centralised venting systems contain great energy profits

### **Schönhammer - heatexchanger**

as an add-on for every venting system for a low price it is possible to recover a lot of heating power.

This is an example for a centralised venting system where the waste air is taken trough the ceiling of the rooms. This air contains a lot of heating energy which shouldn't be blown outside without being used.

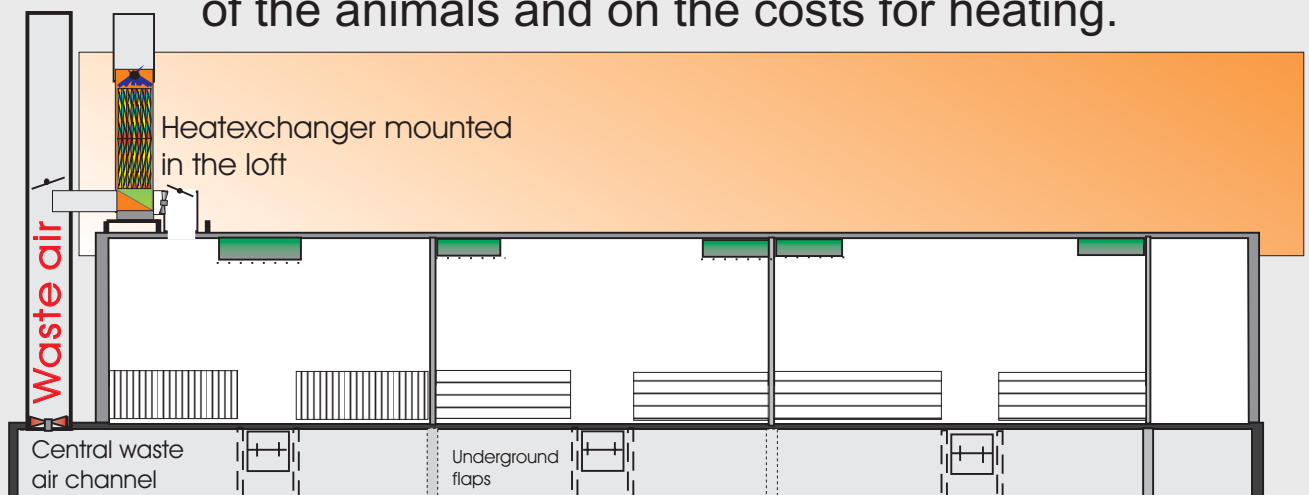


Rooms with centralised air extraction trough the ceiling

### **Schönhammer - heat exchanger**

This is an example for a centralised venting system where the waste air is take trough the floor of the rooms.

The heat which is taken from the waste air is put into the fresh air. Variation in the climate of the rooms can be minimized by using heat exchangers. This has positive effects on the health of the animals and on the costs for heating.



Rooms with centralised air extraction trough the floor

## Heat exchangers and combined systems

Type	Air volume m <sup>3</sup> /h		Dimensions in mm			Heating power in kW	El. Power fresh air fan in kW
	Winter	Summer	Length	Width	Height		
WVT 40	1600		660	470	2540	8,90	0,26
WVTL 40	1600	bis 5500	1330	650*	2680	8,90	0,26
WVT 60	2400		660	670	2600	13,35	0,26
WVTL 60	2400	bis 10000	1330	860*	2680	13,35	0,26
EWVTL 60	2400	14000	2090	860*	2540	13,35	0,26
WVT 80	3200		660	870	2600	17,80	0,26
WVTL 80	3200	bis 14000	1330	1070*	2680	17,80	0,26
EWVTL 80	3200	bis 20000	2090	1070*	2680	17,80	0,26
WVT 100	4000		660	1070	2600	22,25	0,26
WVTL 100	4000	bis 22000	1720	1210*	3000	22,25	0,26
EWVTL 100	4000	bis 32000	2570	1210*	3000	22,25	0,26
WVT 120	4800		660	1260	2600	26,70	0,38
WVTL 120	4800	21000	1735	1400*	3000	26,70	0,38
EWVTL 120	4800	32000	2900	1400*	3000	26,70	0,38
WVT 160	6400		870	1260	3200	35,60	0,42
WVTL 160	6400	21000	1940	1400*	3200	35,60	0,42
EWVTL 160	6400	bis 42000	31000	1400*	3200	35,60	0,42
WVT 200	8000		1050	1260	3200	44,50	0,60
WVTL 200	8000	21000	2150	1400*	3200	44,50	0,60
EWVTL 200	8000	42000	3250	1400*	3200	44,50	0,60
WVT 240	9600		1250	1260	3200	53,40	0,60
WVTL 240	9600	21000	2350	1400*	3200	53,40	0,60
EWVTL 240	9600	42000	3400	1400*	3200	53,40	0,60
WVT 280	11200		1450	1260	3700	62,30	0,60
WVTL 280	11200	21000	2550	1400*	3700	62,30	0,60
WVT 320	12800		1650	1260	3700	71,20	0,90
WVTL 320	12800	21000	2750	1400*	3700	71,20	0,90
WVT 360	14400		1850	1260	3700	80,00	0,90
WVTL 360	14400	21000	2950	1400*	3700	80,00	0,90

\* With actuator and flap axis

# The heat exchanger... as part of a high quality venting system.



## Controllers

Multiple room venting  
computer VarioNet



Double room controller  
VarioNet-S DAR



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