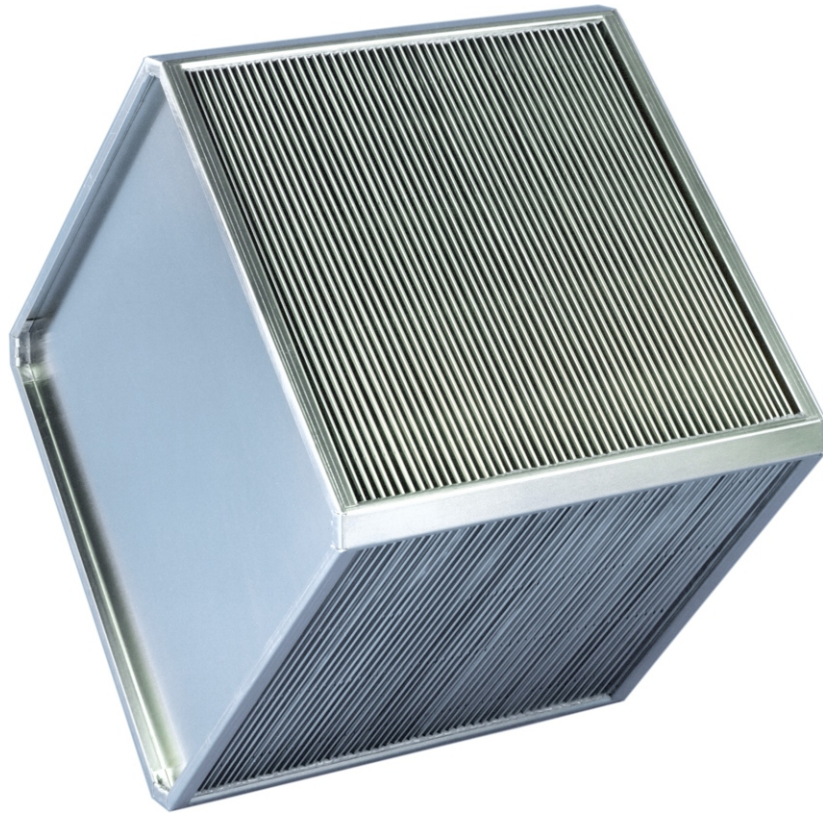
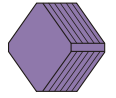


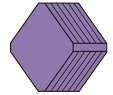
Recuperative heat recovery using plate-type heat exchangers



KLINGENBURG

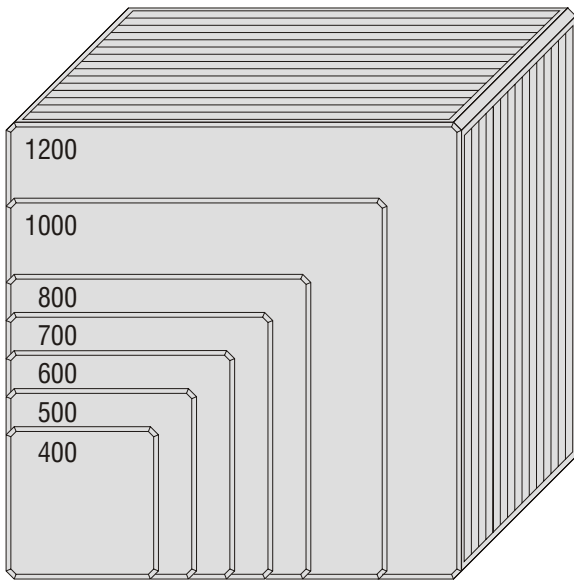
ENERGY RECOVERY

Crossflow plate heat exchanger Type PWT 400-1200



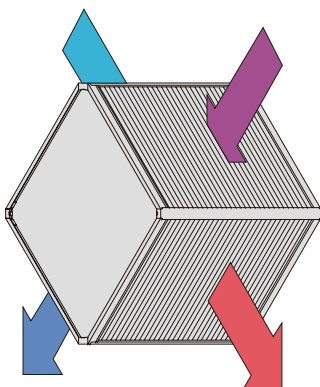
Application

Room ventilation systems
Industrial ventilaton systems
Total separation of supply and waste air
Heat-recovery in winter.
Cooling-recovery in summer.

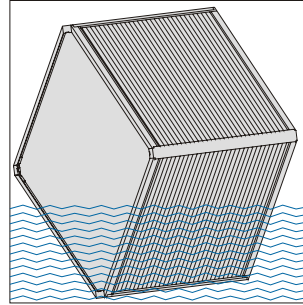


1200 mm	Efficiency up to 70%
1000 mm	Efficiency up to 70%
800 mm	Efficiency up to 70%
700 mm	Efficiency up to 65%
600 mm	Efficiency up to 65%
500 mm	Efficiency up to 60%
400 mm	Efficiency up to 60%

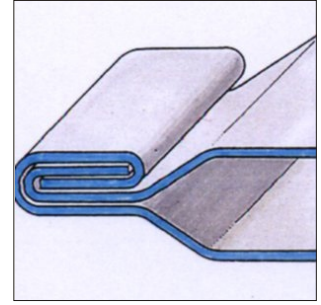
Efficiency depends on plate distance and air quantity



**Energy-savings of
up to 70 %!**



The heat exchangers consist of corrosion resistant aluminium foil.



High tightness and strength thanks to double folding of the intake-flow edges (fivefold material thickness).

Diagram for selection of a suitable plate heat exchanger

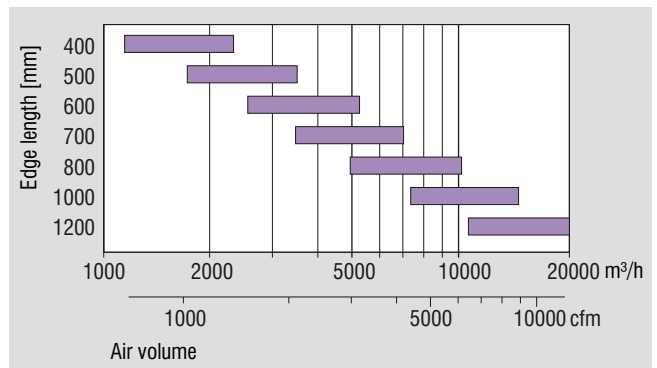
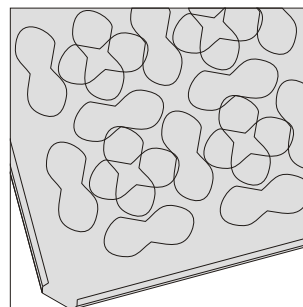
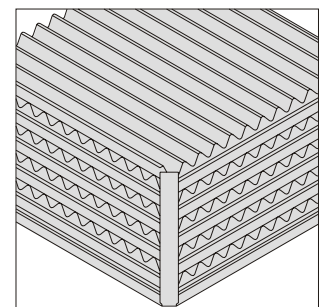


Plate structures and plate distances

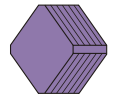


embossed plates:
plate distances from
5.5 up to 14 mm



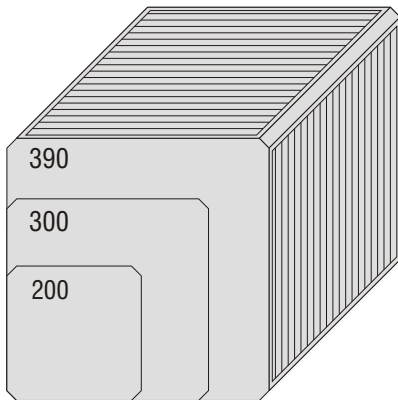
corrugated inserts:
plate distances from
8 up to 13 mm

Crossflow plate heat exchanger Type PWT 200-390



Application

Room ventilation systems
Controlled apartment ventilation
Total separation of supply and waste air
Heat-recovery in winter.
Cooling-recovery in summer.



390 mm

Efficiency up to 60%

303 mm

Efficiency up to 60%

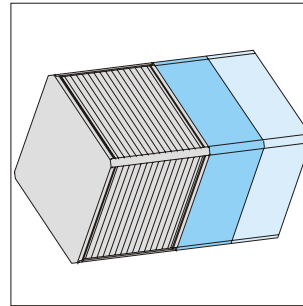
203 mm

Efficiency up to 60%

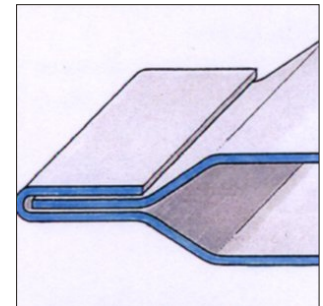
Efficiency depends on plate distance and air quantity



Energy-savings of
up to 60 %!

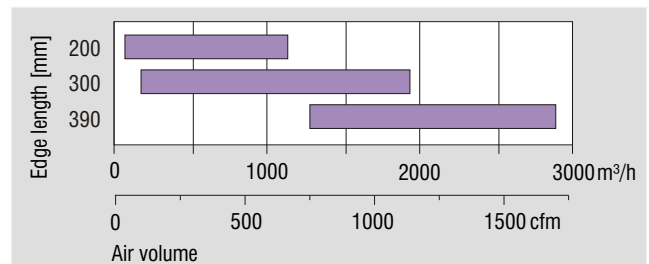


Different plate distances and any required group length can be supplied.

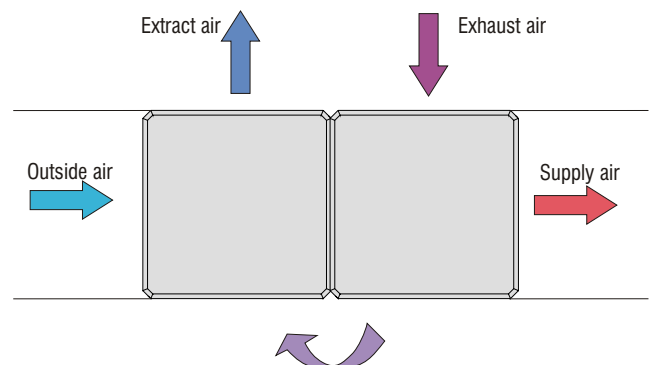
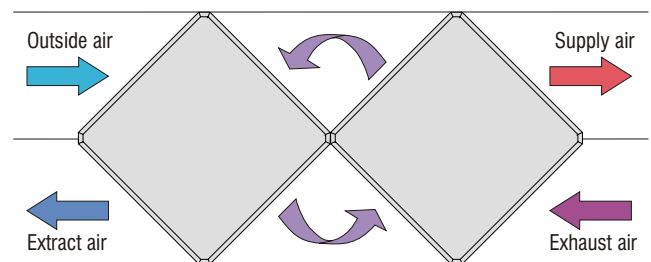


High tightness and strength thanks to folding of the intake-flow edges (threefold material thickness).

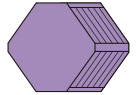
Diagram for selection of a suitable plate heat exchanger



Installation patterns

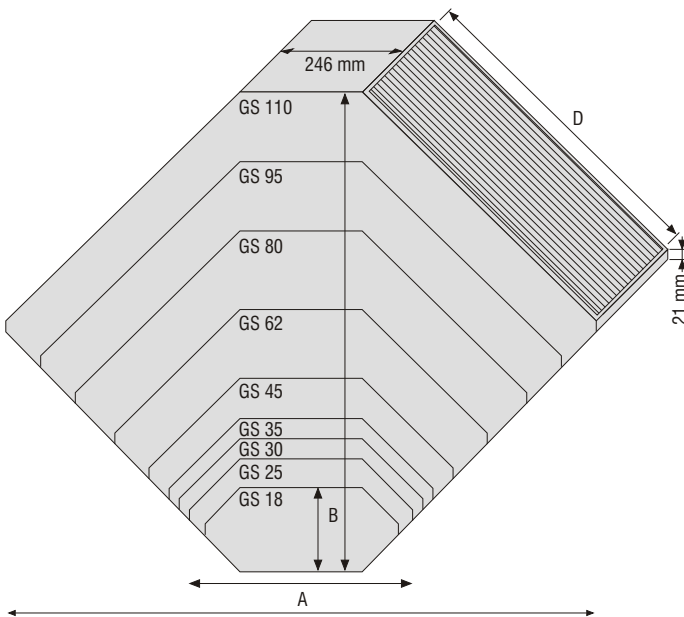


Counterflow plate heat exchanger Type GS



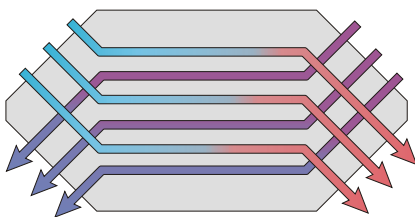
Application

Room ventilation systems
Controlled apartment ventilation
Total separation of supply and waste air
Heat-recovery in winter.
Cooling-recovery in summer.



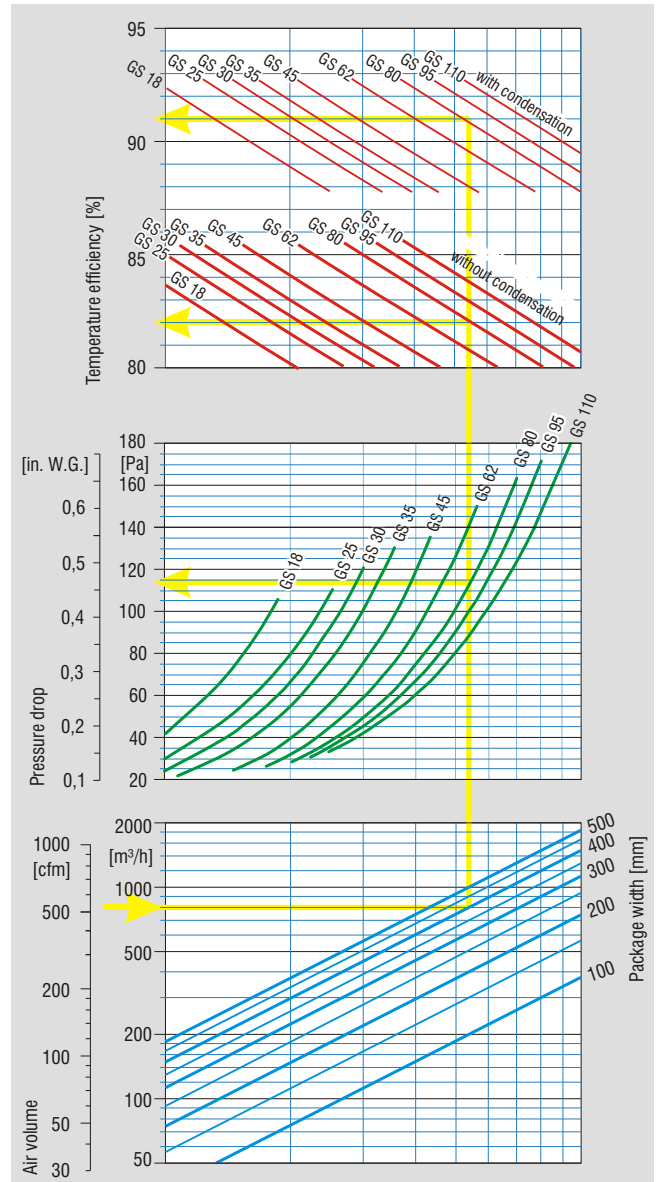
Dimensions

	A [mm]	B [mm]	D [mm]
GS 18	397	172	93
GS 25	454	230	134
GS 30	496	271	163
GS 35	537	312	193
GS 45	619	394	249
GS 62	758	534	347
GS 80	899	674	447
GS 95	1040	815	547
GS 110	1182	957	647

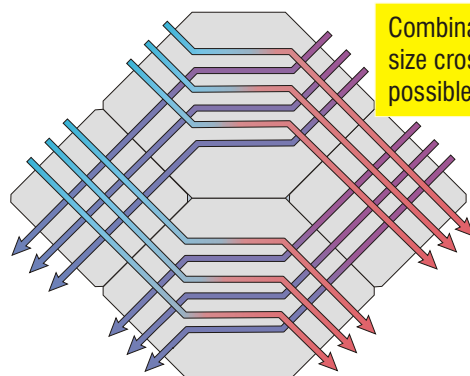


**Energy-savings of
up to 95 %!**

Layout diagram

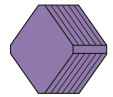


This diagram applies to
supply and exhaust air mass flows equal

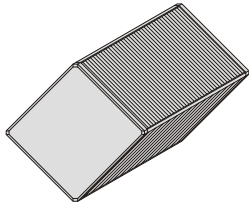


Combination with standard
size crossflow modules
possible!

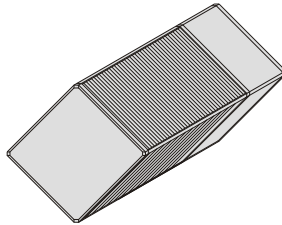
Types and execution possibilities



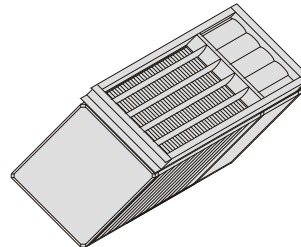
PWT 10



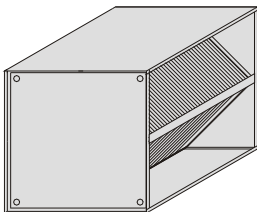
PWT 20



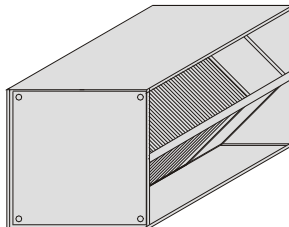
PWT 25



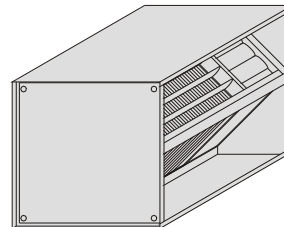
PWT 30



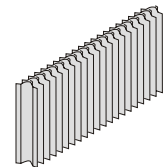
PWT 40



PWT 60



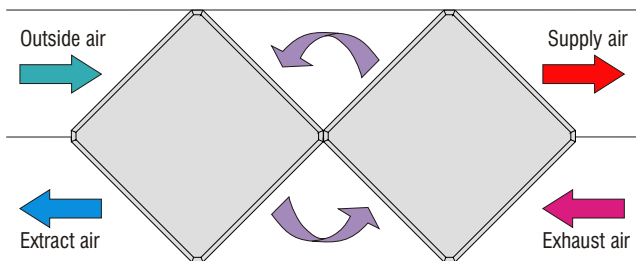
Drop eliminator



All housings are equipped with condensate drain-off.

Cross-/counterflow arrangement incorporating two PWTs

Two heat-exchanger groups can be arranged in a cross-/counterflow pattern to increase efficiency.



Any required group length and edge lengths up to 3000 mm can be supplied, thanks to modular structure.

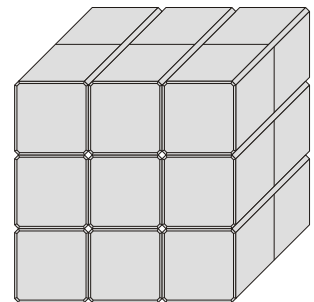
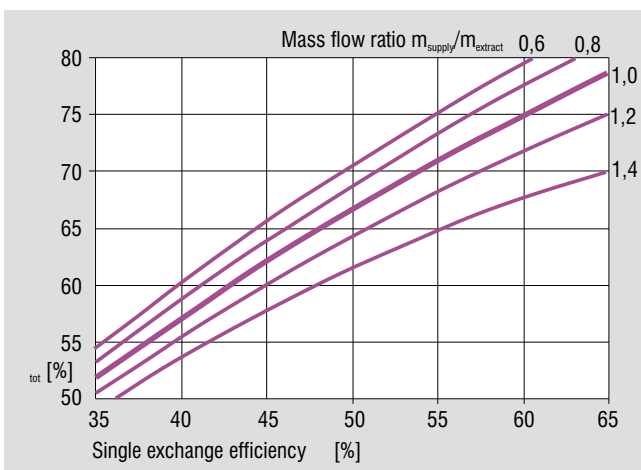


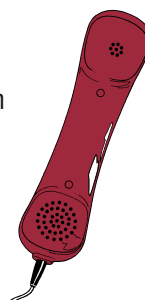
Diagram for determination of efficiency with two PWTs in a cross-/counterflow pattern



Other types and sizes

available on request!

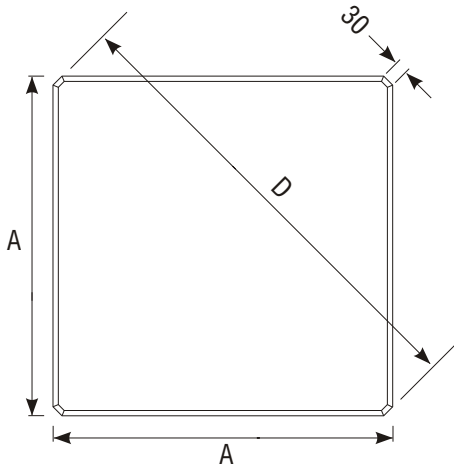
We would be pleased to perform computer design and economy calculations to DIN standards for you. Just contact us!



Measurements

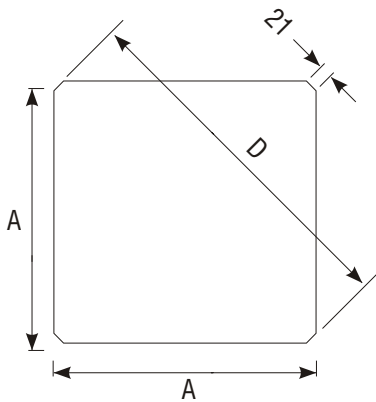


Type PWT 400 - 1000



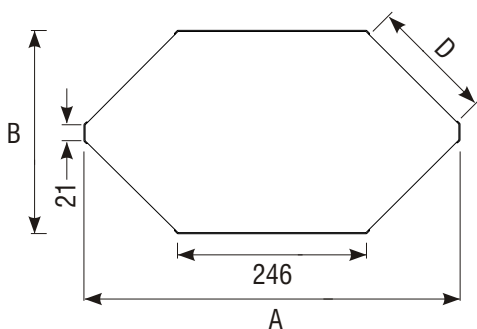
Type	A [mm]	D [mm]
PWT 400	400	536
PWT 500	500	677
PWT 600	600	819
PWT 700	700	960
PWT 800	800	1101
PWT 1000	1000	1384
PWT 1200	1200	1667

Type PWT 200 - 390



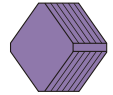
Type	A [mm]	D [mm]
PWT 200	203	265
PWT 300	303	405
PWT 390	390	531

Type GS 25 - 110



Type	A [mm]	B [mm]	D [mm]
GS 18	397	172	93
GS 25	454	230	134
GS 30	496	271	163
GS 35	537	312	193
GS 45	619	394	249
GS 62	758	534	347
GS 80	899	674	447
GS 95	1040	815	547
GS 110	1182	957	647

We reserve the right to introduce technical changes and alterations without prior notice



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