

## Exhaust Gas/gas plate heat exchanger

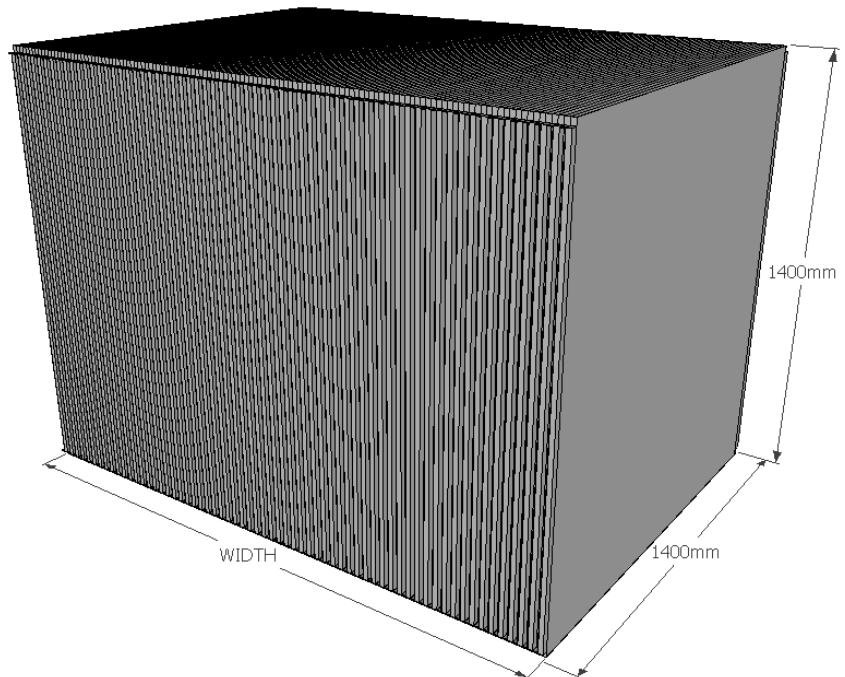
The GUPEX® air-to-air heat exchanger is a plate type heat exchanger designed for moist, corrosive and dusty air and gases up to 140°C.

### TYPICAL APPLICATIONS

- Flue gas heat recovery
- Air heat recovery metallurgical processes
- Welding workshop air extraction
- Food processing heat recovery
- Woodworking processes
- Paper Factory ventilation
- Exhaust air energy recovery
- Gas and air purification (scrubbing)
- Waste heat Recovery
- Burner air pre-heating

### TECHNICAL DATA

Height:	1450 mm
Width:	to suit air volume
Depth:	1450 mm
Plate size:	1400x1400 mm
Plate thickness:	Approx 1 mm
Plate distance:	15 mm
Material, plates:	Glass fibre reinforced polyester or vinylester
Temp. range	up to 140°C
Pressure drop	150 Pa (at nom. air vol.)



### KEY TECHNICAL POINTS

#### Long Operating Life:

The GUPEX air-to-air heat exchanger is made of corrosion resistant composite material which gives it a long economic life with low maintenance cost even under very hostile air conditions.

#### Large plate distance:

A 14mm gap between the heat conductive plates enable handling of very dusty air and particles without getting blocked. Air filters are therefore normally not needed. If required, cleaning of plates is a very simple to carry out by e.g. water flushing.

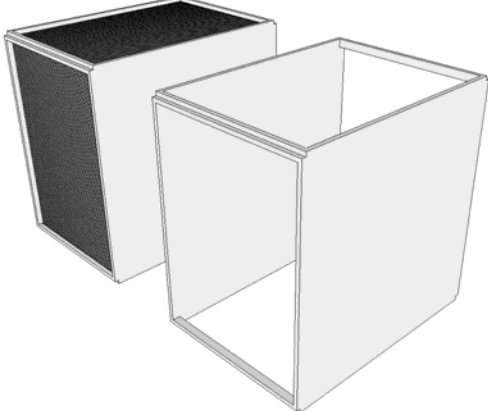

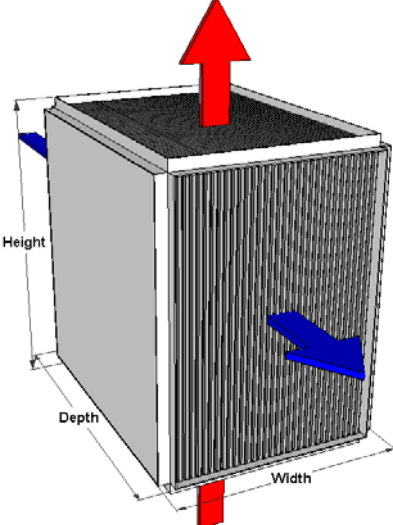
#### Low pressure drop:

A great advantage of the GUPEX heat exchanger is very low pressure drop, only approx. 150 Pa excluding air chambers at nominal air volumes. Low pressure drop reduces investment cost and saves energy.



## Heat Exchanger Housing Types

Several housing types are available for the heat exchanger.

	<p><b>Gupex model 1C</b></p> <p>Two side panels in composite connected together by four corner bars, also in composite.</p> <p>Sizes Width: 300 – 2500mm</p>
	<p><b>GUPEX model 1P</b></p> <p>Two side panels, protruding duct openings in laminated composite sandwich core, four solid flanges for duct connections, all in laminated composite.</p> <p>Sizes Width: 300 – 8000mm</p>
	<p><b>GUPEX type 1S</b></p> <p>Two side panels in galvanized steel sheet, four duct openings in steel, all galvanized.</p> <p>Sizes Width: 300 – 2500mm</p>

	<p><b>GUPEX model 3</b></p> <p>Housing material polyester sandwich core construction.          Freestanding model with top and bottom plenum.          Optional position of duct openings.          Water and condensate drain point in bottom plenum.</p> <p>Sizes          Width: 300 – 4000mm</p>
	<p><b>GUPEX model 3</b></p> <p>Housing material polyester sandwich construction          Freestanding model with bottom plenum only.          Optional position of ducts on bottom plenum.          Water and condensate drain point in bottom plenum.</p> <p>Sizes          Width: 300 – 4000mm</p>