Hoval Enventus Gotthard

The counterflow plate heat exchanger

Hoval Enventus

Responsibility for energy and environment

With the Hoval Enventus Gotthard plate heat exchanger, plant engineers save twice over – first on energy, and secondly on space. And with the counterflow heat exchanger, they will also be compliant with the EU's latest statutory requirements.

Hoval Enventus Gotthard	
Differential pressure stability	Up to 2000 Pa
Package width	Up to 1900 mm
Air flowrate	Up to 9000 m³/h
Temperature efficiency (dry)	73–84%

Reference: GV-085

The superior counterflow plate heat exchangers. The output range has been redefined. The Gotthard counterflow heat exchanger provides precisely the output required while ensuring compliance with the statutory energy efficiency requirements of the 2018 ErP Directive.

Our solutions are economical. Systems can be designed and planned on a smaller scale on the whole. Supreme differential pressure stability allows Hoval Enventus to ensure a compact design. And the potential for savings is plain to see.

Our system is compatible. Bypass, dampers and adapter for actuator are optimised for the Gotthard and are included in the package as standard. They no longer have to be purchased and installed separately. The attachments are perfectly matched and guarantee the best internal airflow possible.

Ask for advice today!

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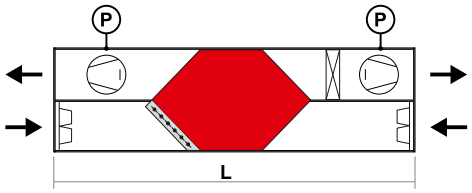
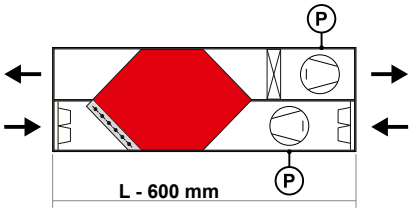
	HVAC unit with conventional counterflow heat exchanger [1]	HVAC unit with Hoval Enventus Gotthard [2]
The superior counterflow plate heat exchangers.	$SFP_{int} = \frac{2\,\Delta p}{0.6} = 904\ \frac{W}{m^3/s}$ $SFP_{int\_limit} = 1100+E-\frac{300\ qV}{2} = 1361\ \frac{W}{m^3/s}$ $\Delta\ SFP_{int} = SFP_{int\_limit} - SFP_{int} = 457\ \frac{W}{m^3/s}$ $\Delta p_{res} = 275$ Pa	$SFP_{int} = \frac{2\,\Delta p}{0.6} = 477\ \frac{W}{m^3/s}$ $SFP_{int\_limit} = 1100+E-\frac{300\ qV}{2} = 1070\ \frac{W}{m^3/s}$ $\Delta\ SFP_{int} = SFP_{int\_limit} - SFP_{int} = 593\ \frac{W}{m^3/s}$ $\Delta p_{res} = 356$ Pa **The HVAC unit can be built approx. 25% slimmer.**
Our solutions are economical.		 **The HVAC unit can be built approx. 600 mm shorter.**
Our system is compatible.		 **The counterflow plate heat exchanger can be installed in the HVAC unit approx. 80% faster.**

Design where qV = 2000 m³/h; EN 308 data; ErP 1253/2014; assuming F = 0; ER data from CASER 2.0.2.0; effective fan efficiency 60%

1) Δp = 271 Pa, η_{dry} = 84.5%, E bonus = 344 W/m³/s

2) Δp = 143 Pa, η_{dry} = 74.8%, E bonus = 53 W/m³/s