

VAPOBLOC - Frequently asked questions

• How much humidity can be recovered?

Approx. $\frac{2}{3}$ to $\frac{3}{4}$ of the temperature effectivity

• Will no germs or odors be transferred?

Only vapor molecules will be transferred. The membrane is water and air tight, like with modern outdoor textiles. None of the exhaust air contamination gets through the Vapobloc membrane.

• Are the hygiene directives observed?

Yes. The membrane is tested extensively and got the certificate ISO 846. Vapobloc matches with the Hygiene directives VDI 6022, SWKI VA 104-1, Önorm H6020.

• How can Vapobloc be cleaned?

Moderate dust buildup can be washed away with normal warm tap water (max. 60°C/140°F). With heavier buildup, a soft detergent can be used. We recommend a commercially available detergent for delicate clothing.

• Will Vapobloc freeze?

No. At normal conditions, a large part of the exhaust air humidity will be transferred to the supply air. As a result, almost no condensation (and freezing) occurs. However, with extreme cold and high humidity during long periods where the air is below dew point, it is possible for Vapobloc to freeze.

• What are the most common applications for Vapobloc?

Residential buildings, homes for the elderly, hospitals, etc. Anywhere that humidity recovery is required, but leakage and odor transfer is not tolerated.

• How does the performance of the membrane change over the years?

With regular maintenance, the membrane won't show reduced performance. The first units with this membrane have been in operation for over 7 years in North America. Regular checks and accelerated long-term tests have confirmed that reliable performance exceed 10 years minimum.



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• How tight is Vapobloc?

Vapobloc is as tight as standard aluminum plate heat exchangers. The maximum tolerated leakage is 0.5% at 250 Pa (1.0 inWC) differential pressure and 2 m/s (400 fpm) face velocity. Every single Vapobloc is tested for tightness before leaving the shop. The leakage rate does not increase over time, even after 10 years.

• We are using CO2 sensors to minimize the exchange of air. Is Vapobloc obsolete in this case?

No, the use of Vapobloc in applications with demand-controlled ventilation is a very effective combination. This allows keeping a comfortable level of humidity in the building even in long periods or dry outside air.

• Is the technical data certified?

Yes, the performance was tested at the University of Lucerne and certified by Eurovent and TUV.

• What is the maximum pressure differential between the airstreams?

1200 Pa (4.8 inWC)



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