

# Ventilation system with heat recovery and



## moisture recovery from exhaust air

# AustroBau Salzburg and Energy saving fair Wels 1992:

**"Ventilation systems with heat recovery  
are widespread in Scandinavia and  
will also become established here".**

**Why didn't this happen by 2021?**

# Why not widespread?

## Sonderausstattungen (gegen Aufpreis)

Holzfenster 92/0,74	4.903,-
Holz/Alufenster 110/0,74	8.965,-
Holz-Alu-Fenster „Stratos Classic“/0,78	10.730,-
Kunststoff-/Alufenster 88 Top/0,74	3.406,-
Rollläden eingebaut für alle Fenster *	7.682,-
Rollläden aufgesetzt für alle Fenster *	8.197,-
E-Antrieb für Rollläden für alle Fenster *	7.700,-
Raffstores eingebaut für alle Fenster *	11.426,-
E-Antrieb inkl. Windwächter für Raffstores für alle Fenster *	8.734,-
Insektenschutzgitter (nur in Verbindung mit Rollläden/Raffstores möglich) *	5.200,-
Komfort-Lüftungsanlage	11.710,-
Multifunktions-Wärmetechnik	8.020,-
Thermodecke/-dach	2.400,-
fugenloser Baustellenputz	inklusive

**Savings**                    **4,000 kWh<sub>thermical</sub>**                    **400 €**

**Expenses**                    **100 kWh<sub>electrical</sub>**                    **20 €**

**Annual savings**                    **380 €**

Ihr Vorhaben

Kaufen

Bauen

Sanieren

Sonstiges

Vorhabenskosten

11.710 €

[Betrag ermitteln](#)

Eigenmittel

z.B. 20.000 €

[Betrag ermitteln](#)

Wohnbauförderungen

z.B. 20.000 €

[Betrag ermitteln](#)

Laufzeit in Jahren

10    15    20    25    30

Ihr Finanzierungsbetrag

11.710 €

Ihre monatliche Rate

46 €

[Wie wird Ihre Rate berechnet?](#)

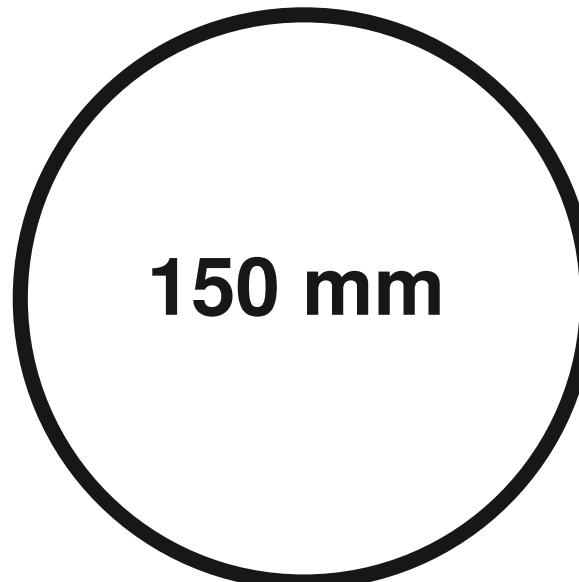
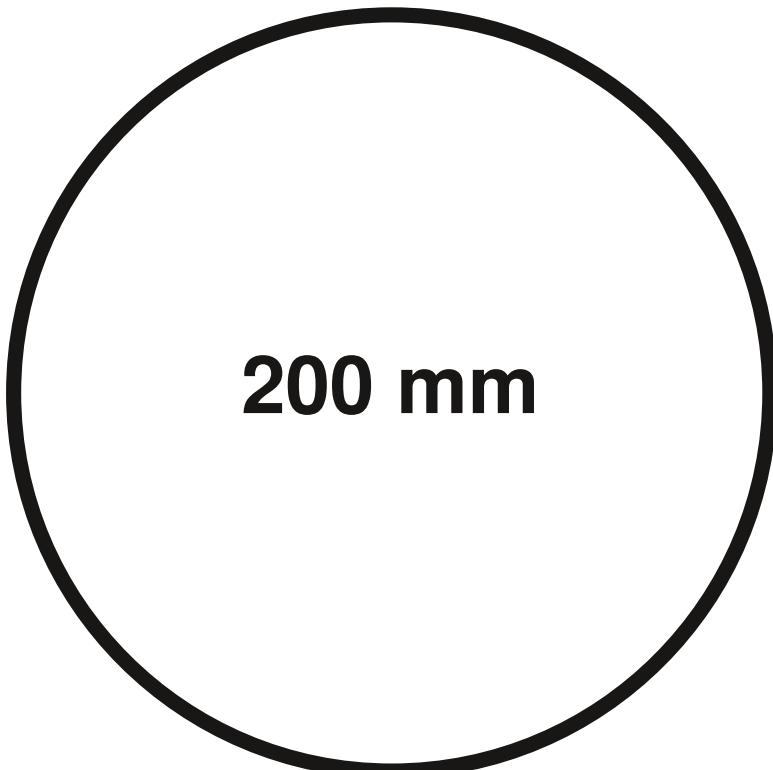
**380 € savings against 552 € more annual loan repayment**

# Would such a surcharge list be feasible when buying a car?

Air conditioner	2000 €
Comfort air conditioner with automatic temperature regulation	4000 €
HEPA air filter	3000 €
Power windows front	2000 €
Power windows rear	1000 €
Central locking system	2000 €
Automatic central locking when the car is moving	4000 €
ABS (Anti-lock Braking System)	4000 €
ESP (Electronic Stability Program)	7000 €

When buying a house, this is currently still standard

**100 m<sup>3</sup> per hour air exchange**



**0.88 m/sec**

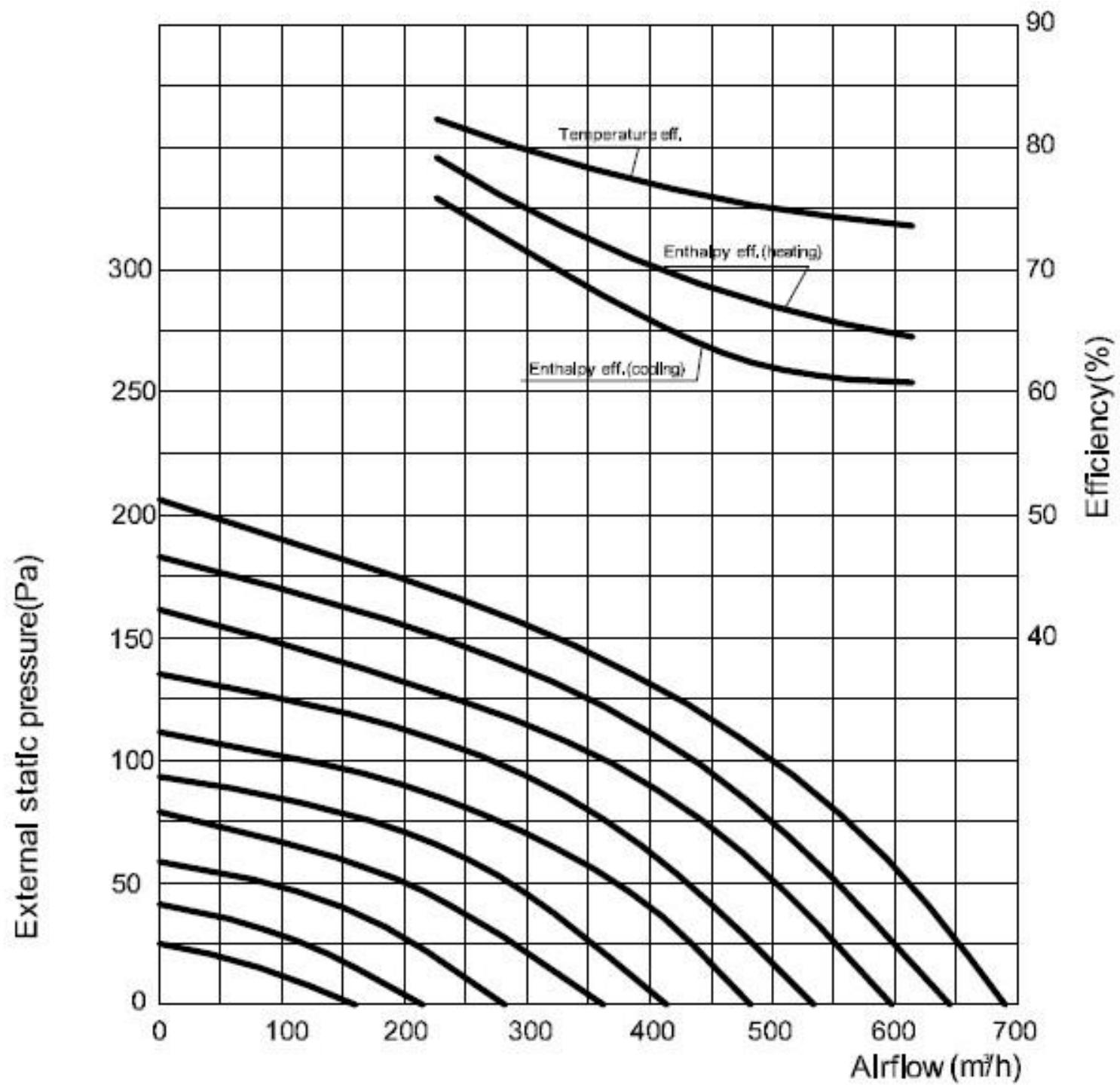
**12 Watt**

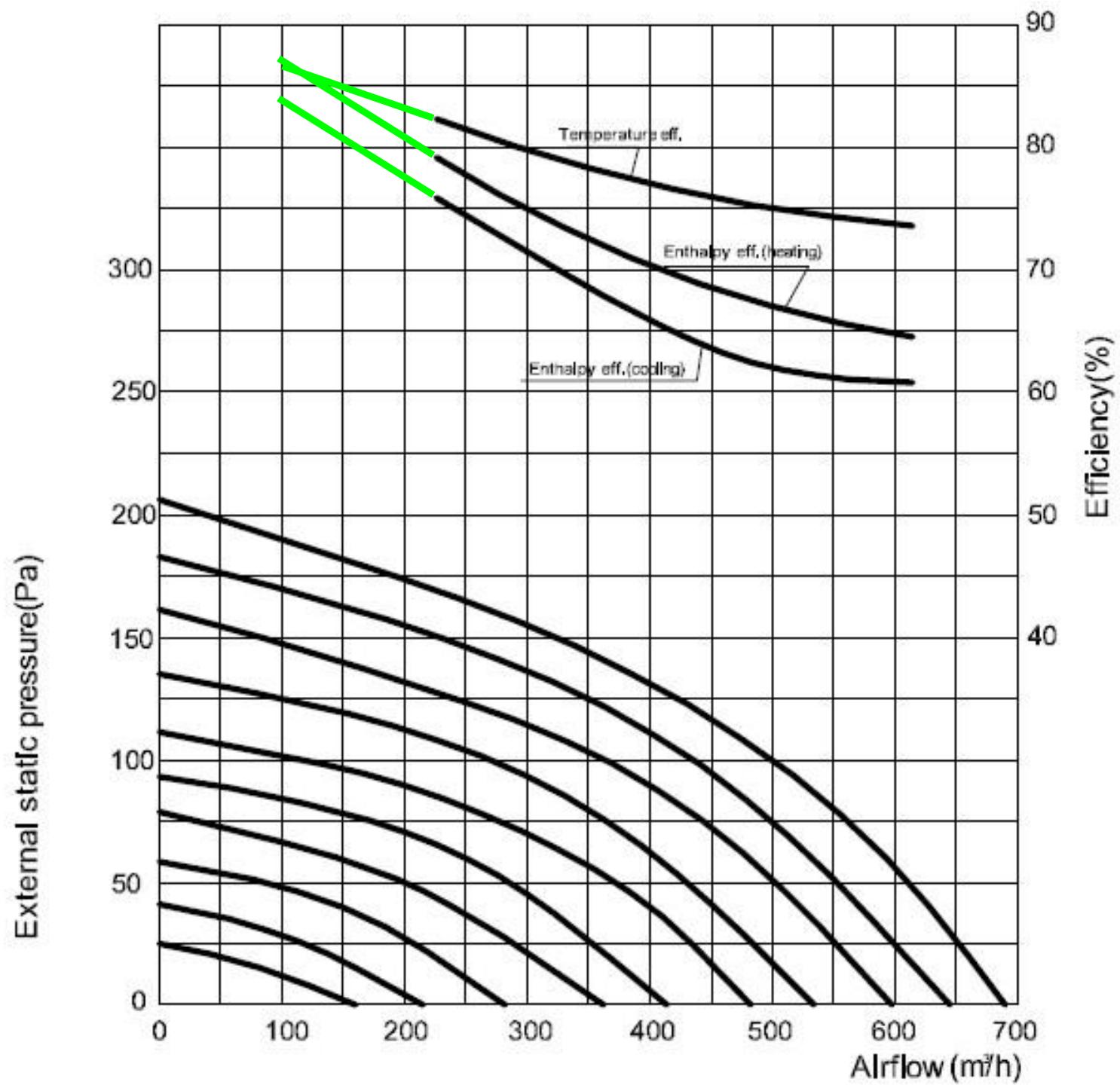
**1.57 m/sec**

**21 Watt**

**2.37 m/sec**

**31 Watt**





**-5° 20 % outside to 18° 40 % inside 70 m<sup>3</sup>/h**

**Primitive ventilation system**



**Ventilation system with 95 % heat recovery**

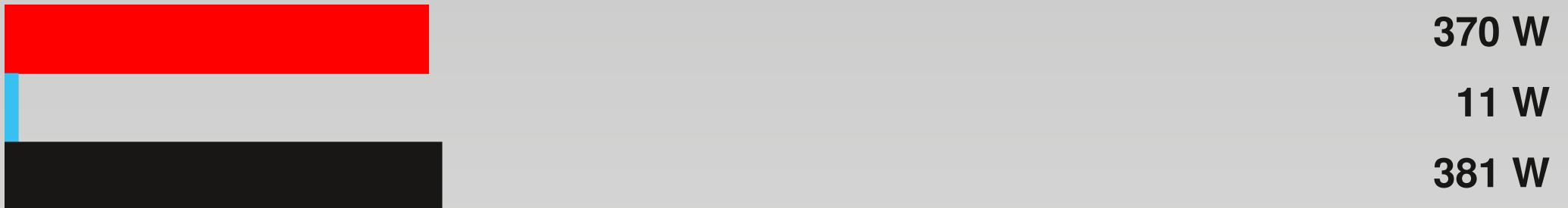


**Ventilation system with 85 % heat recovery and 85 % moisture recovery**



**2° 80 % outside to 18° 40 % inside 70 m<sup>3</sup>/h**

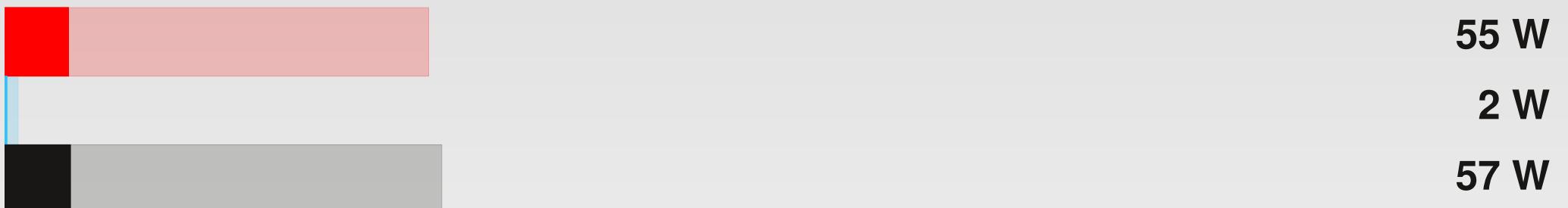
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**Ventilation system with 95 % heat recovery**



**Ventilation system with 85 % heat recovery and 85 % moisture recovery**

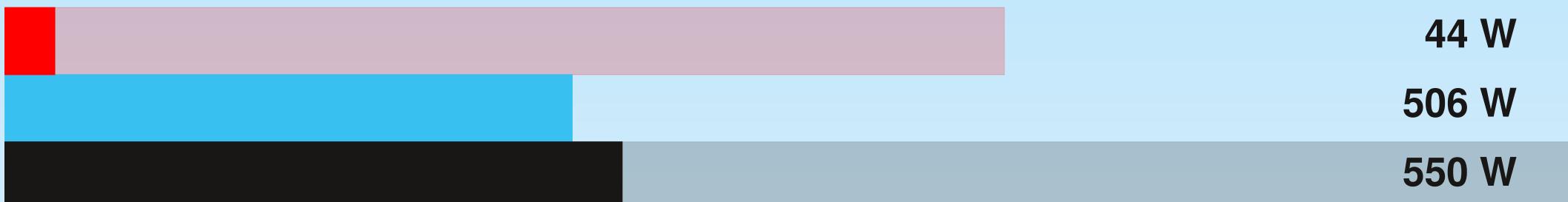


**-5° 20 % outside to 22° 50 % inside 100 m<sup>3</sup>/h**

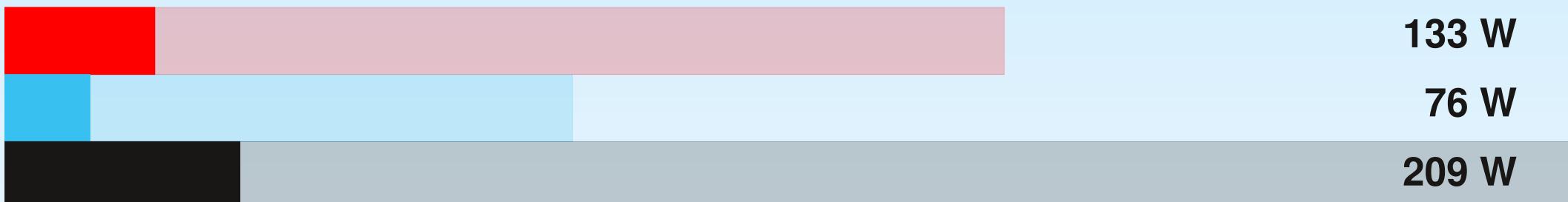
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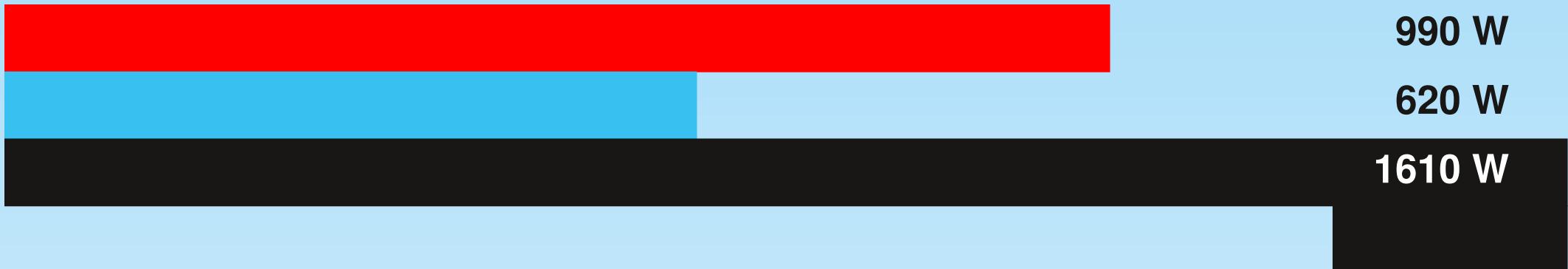


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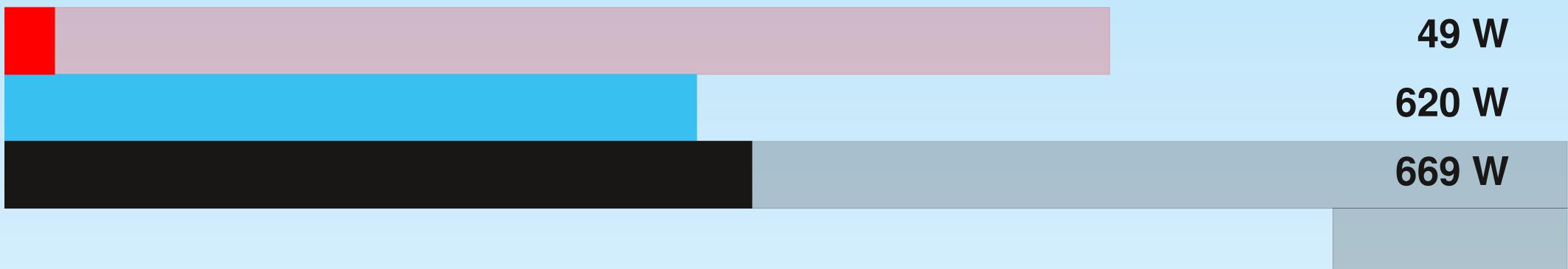


**-5° 20 % outside to 25° 50 % inside 100 m<sup>3</sup>/h**

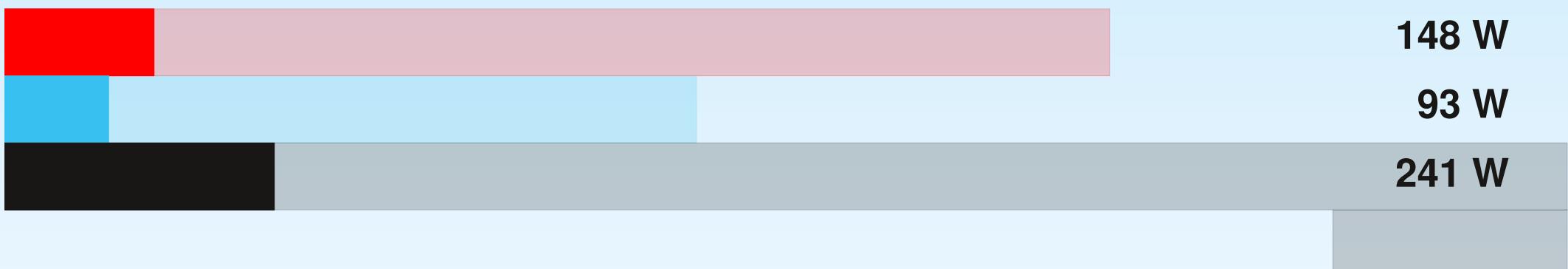
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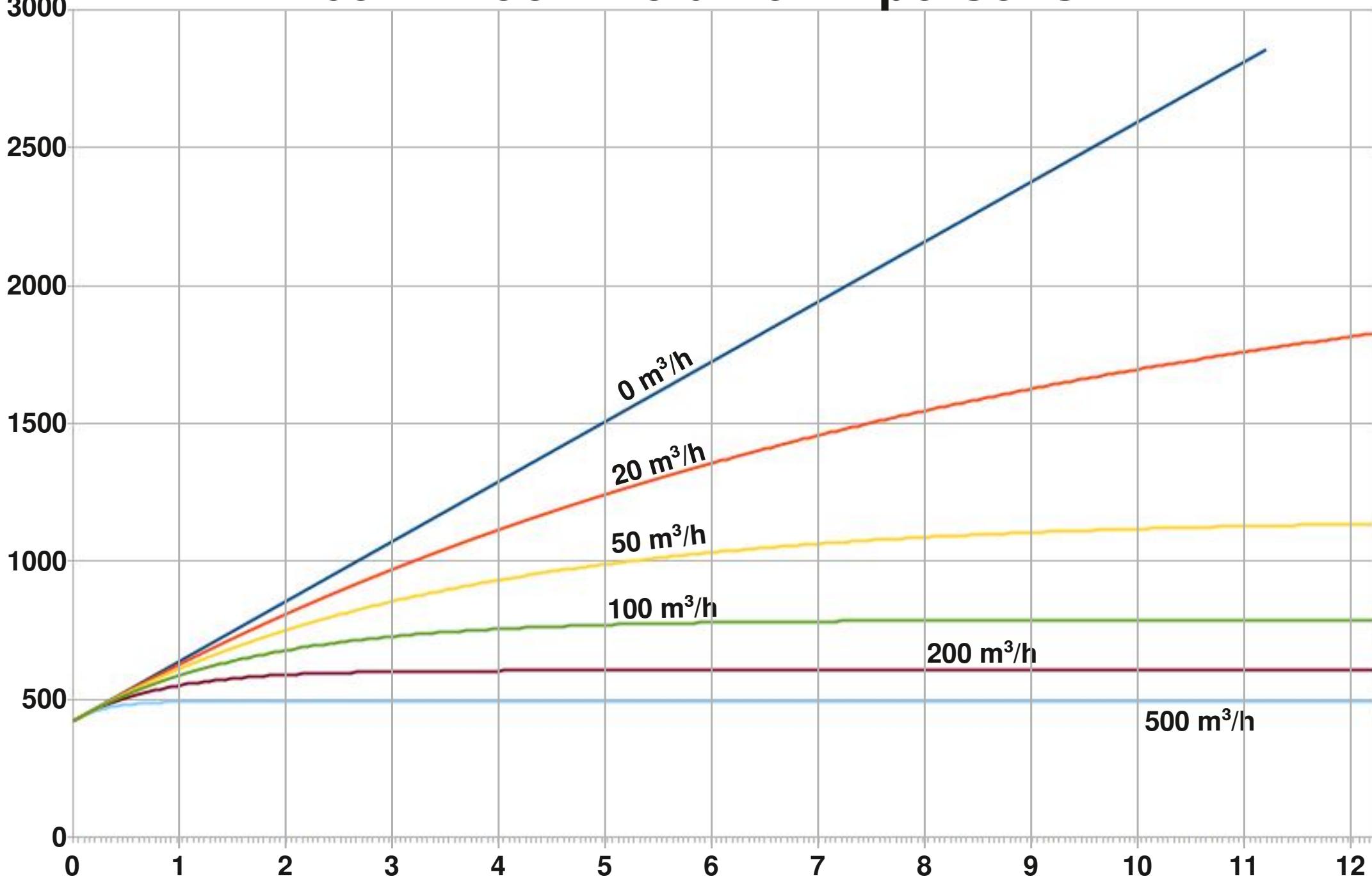
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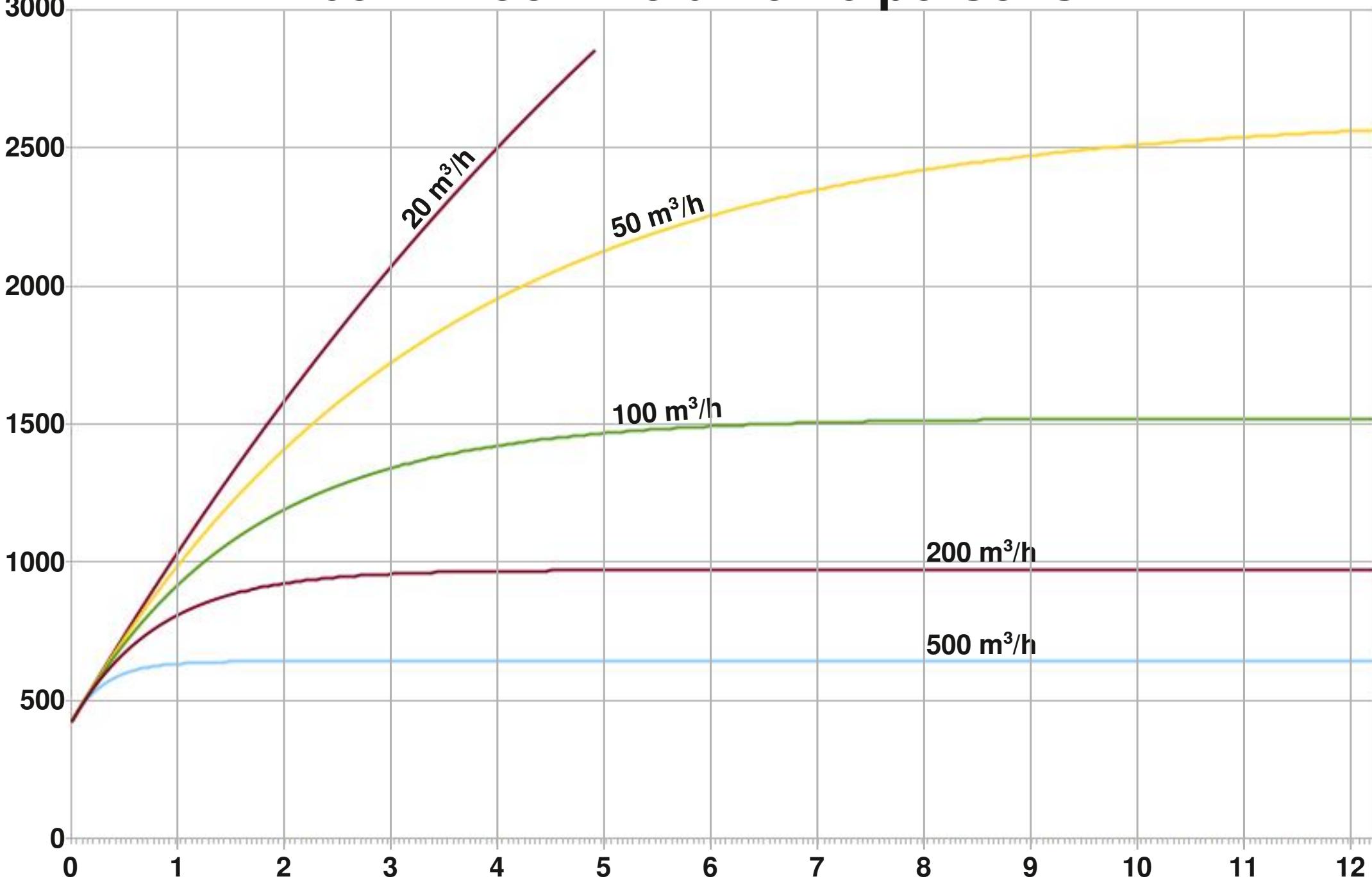
**Ventilation system with 85 % heat recovery and 85 % moisture recovery**



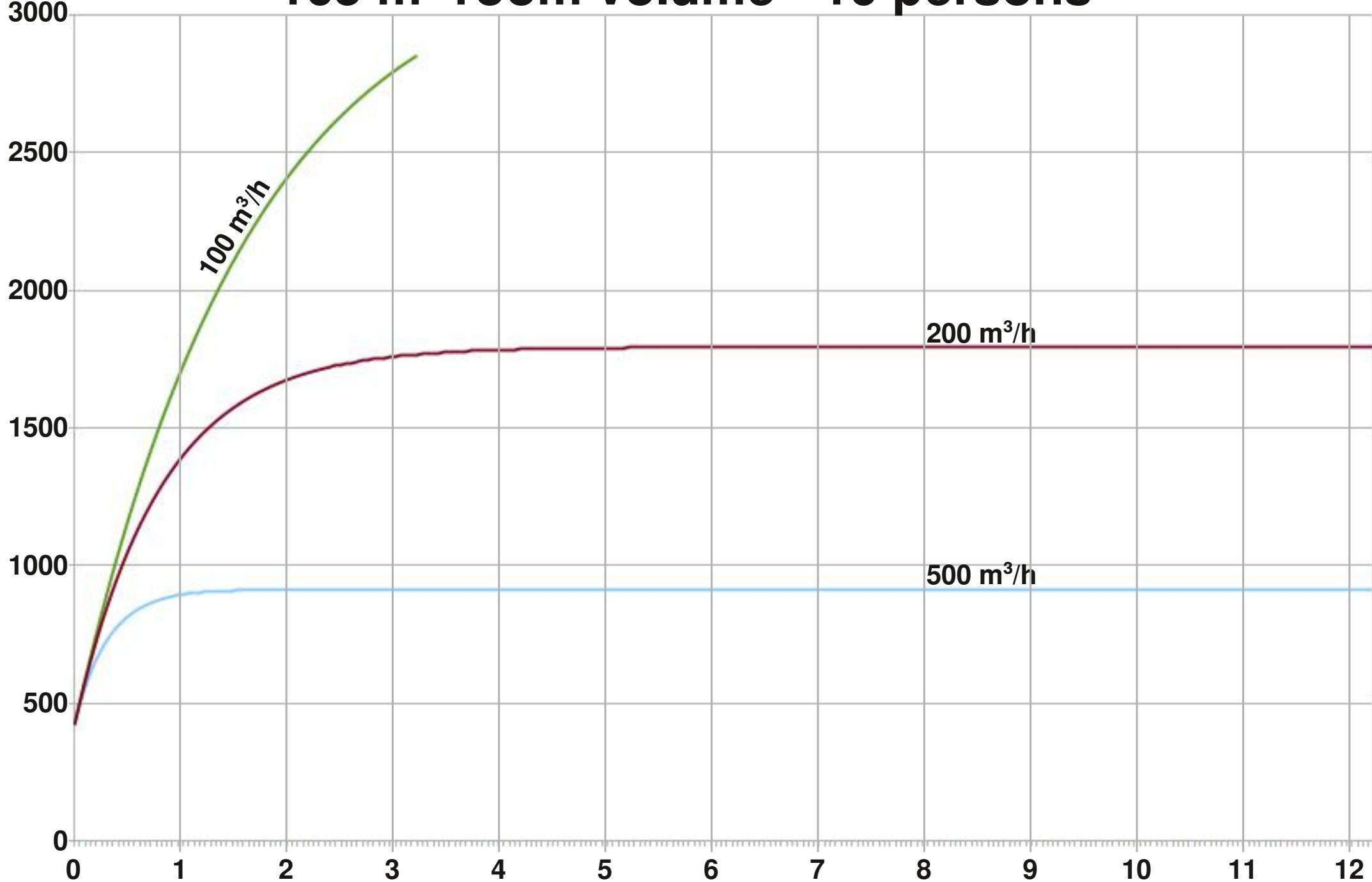
# 165 m<sup>3</sup> room volume - 2 persons



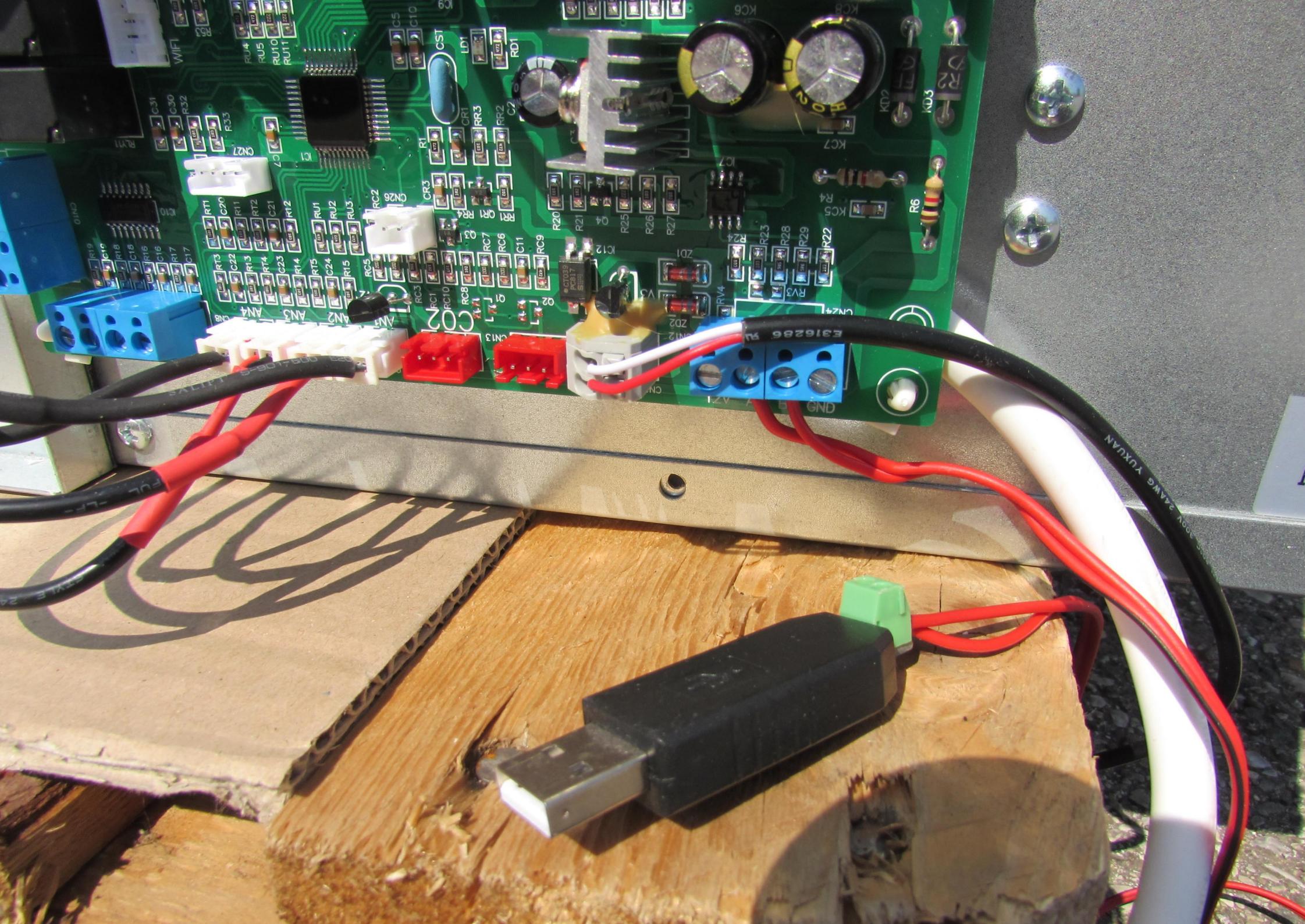
# 165 m<sup>3</sup> room volume - 6 persons



# **165 m<sup>3</sup> room volume - 16 persons**



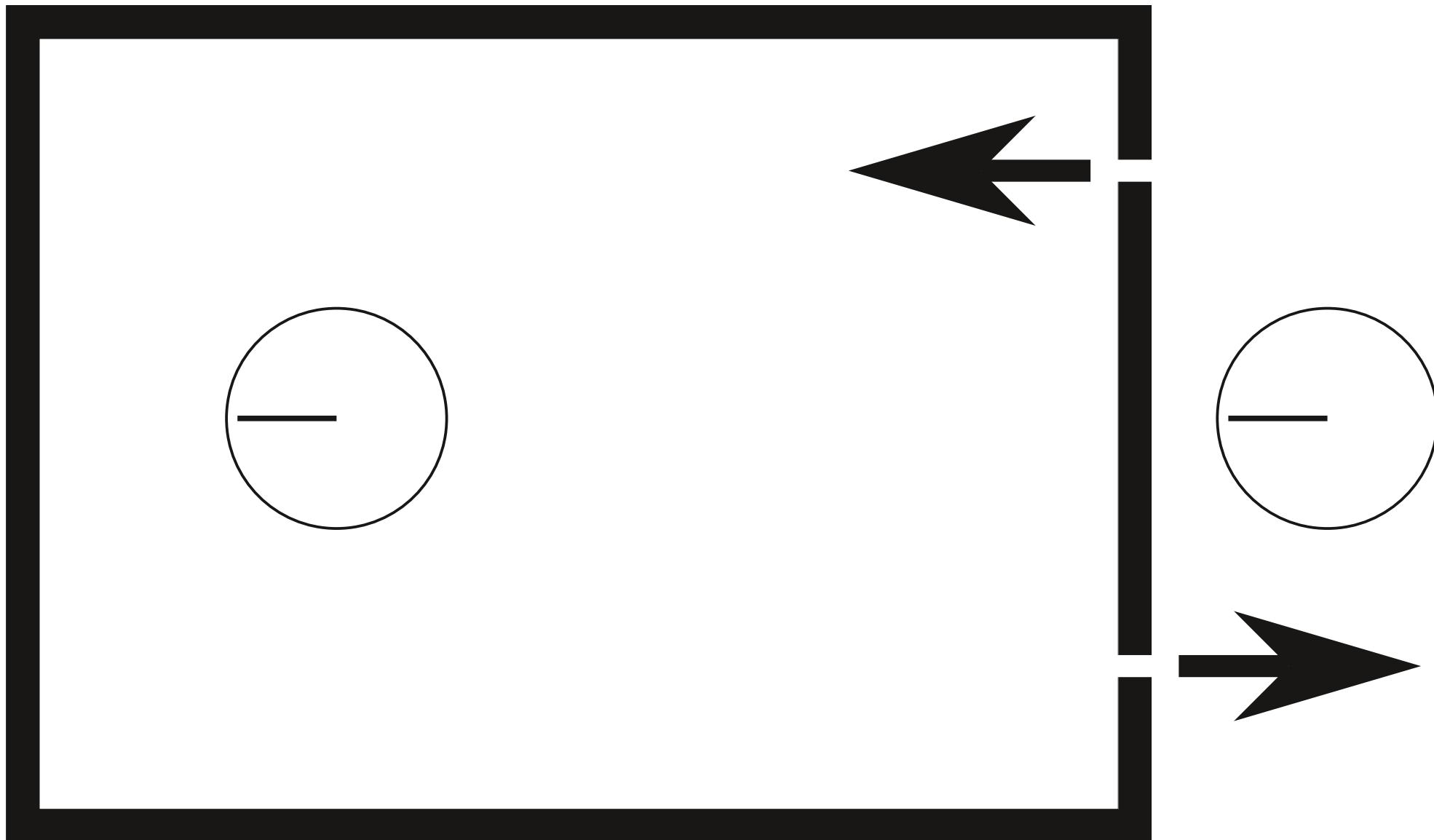




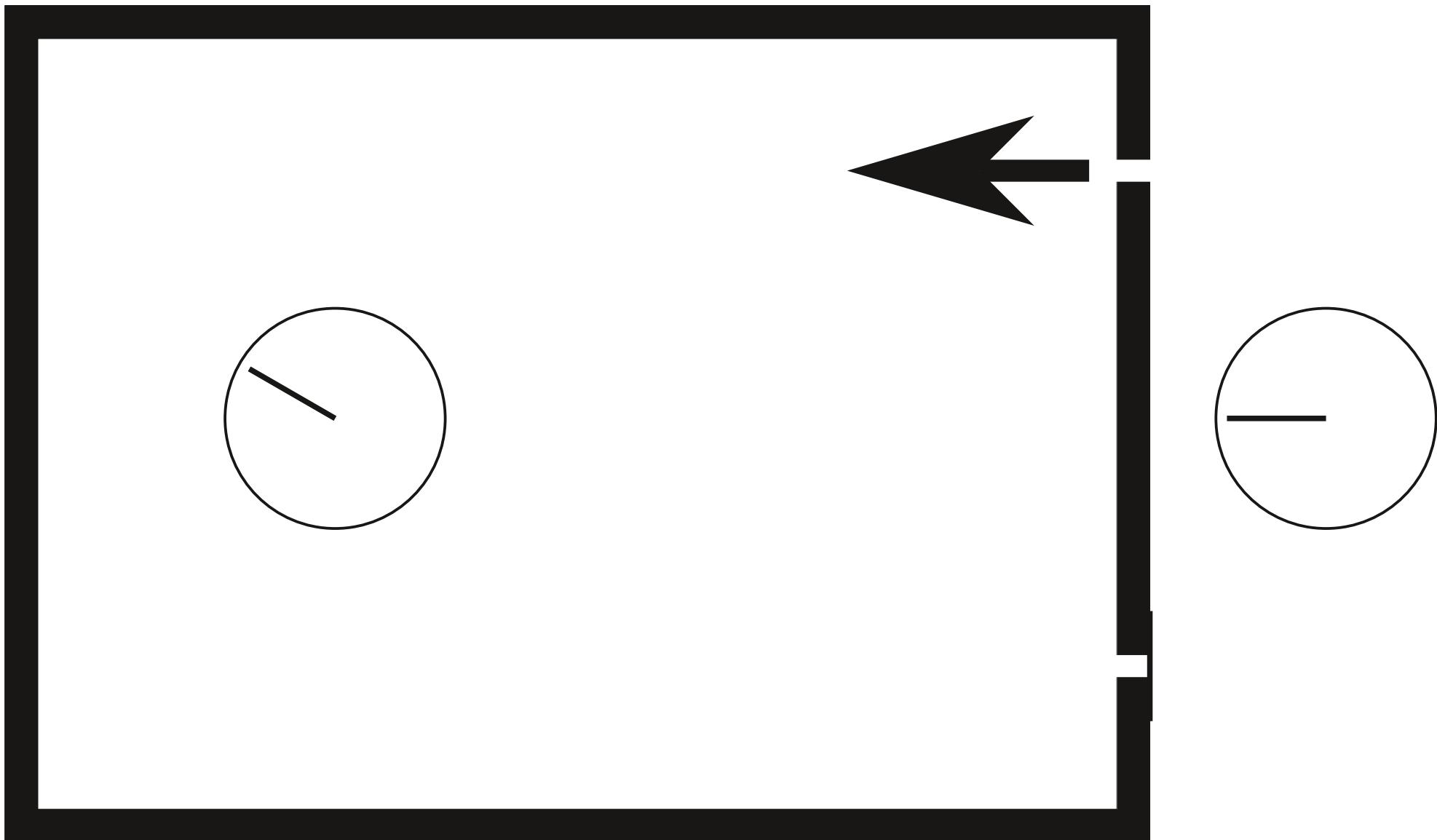


Anobiumpunctatum

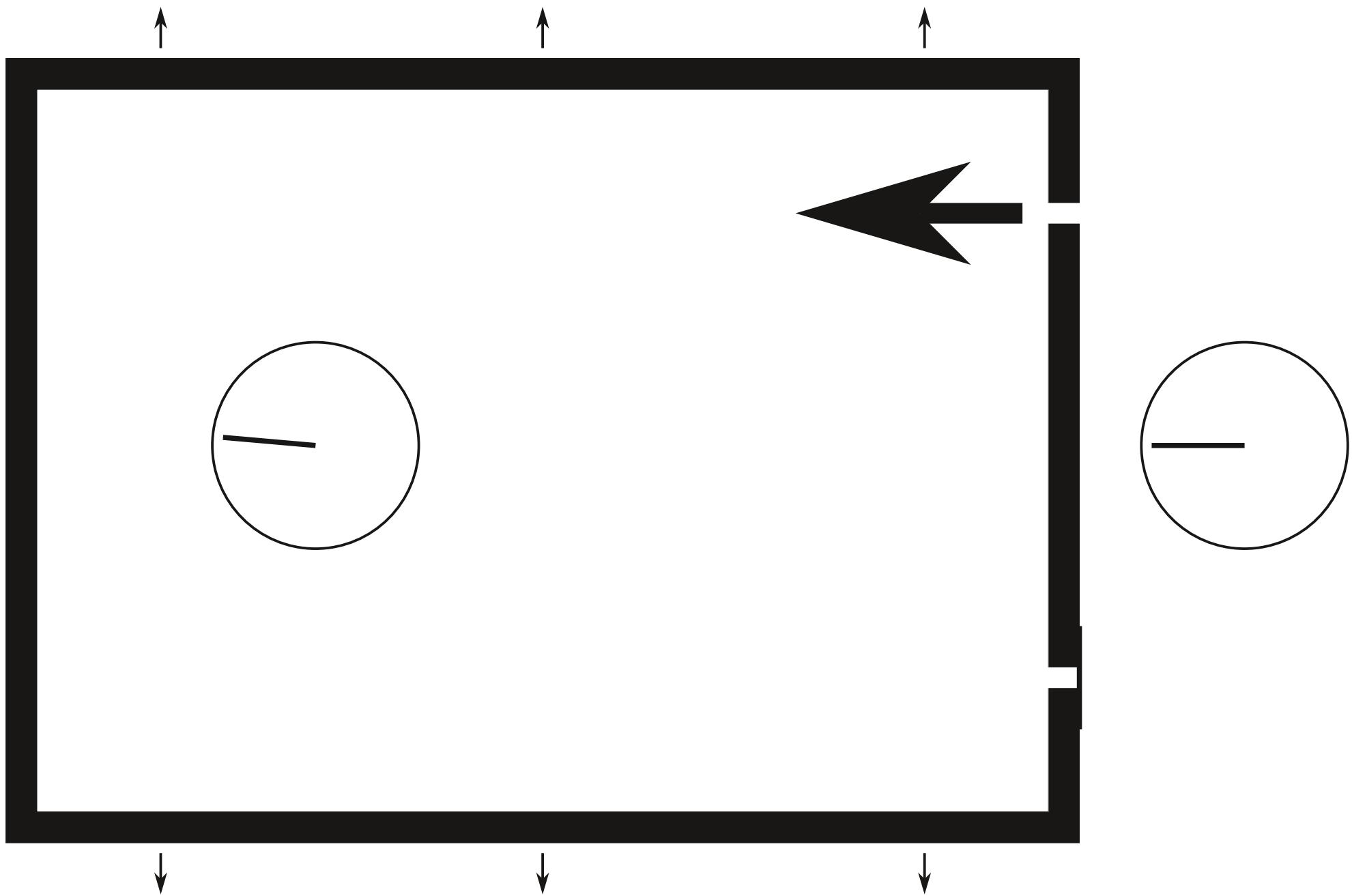
# Same air pressure



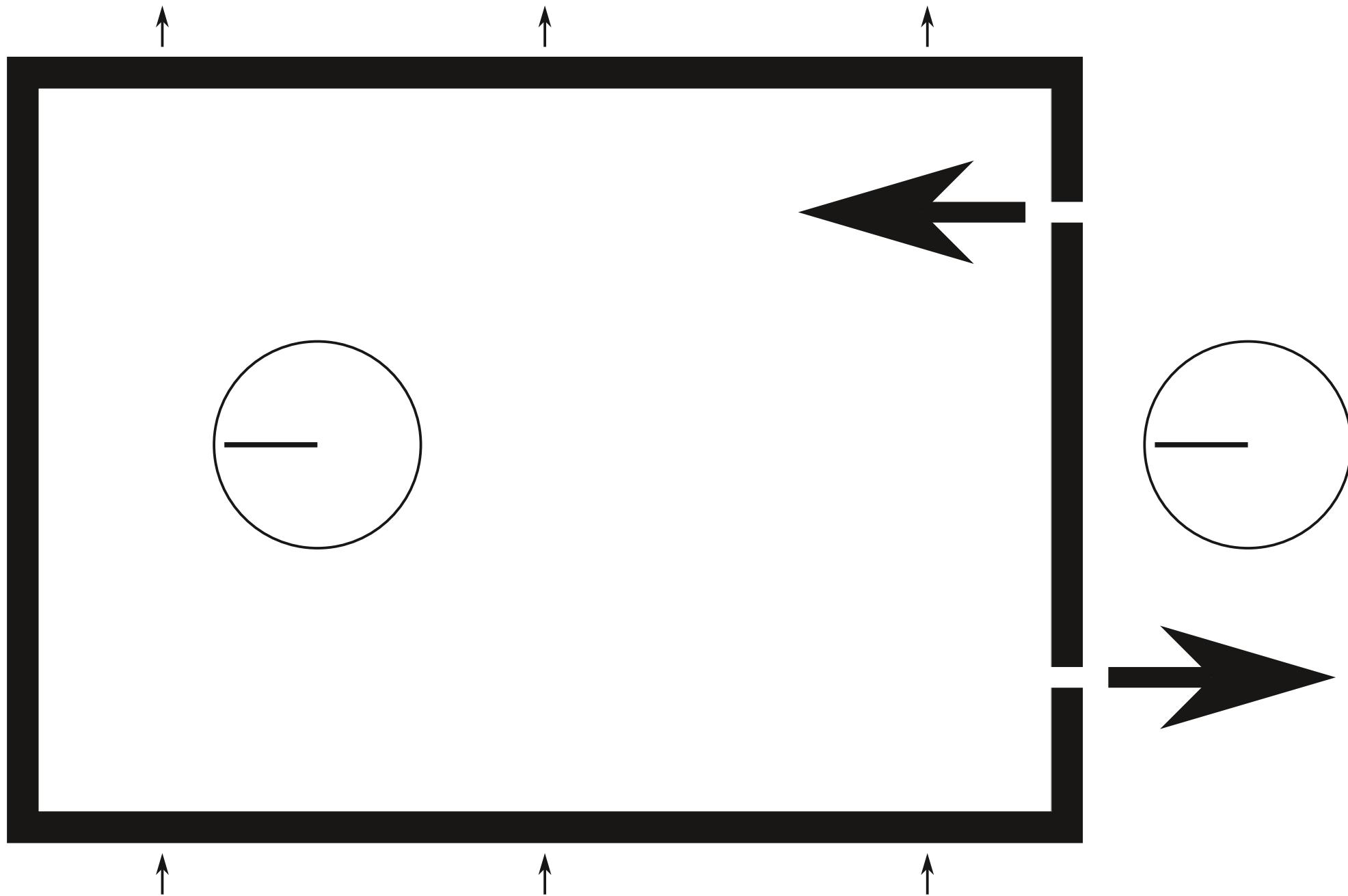
**Tight house, air pressure rises inside**



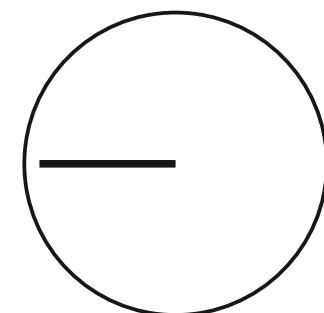
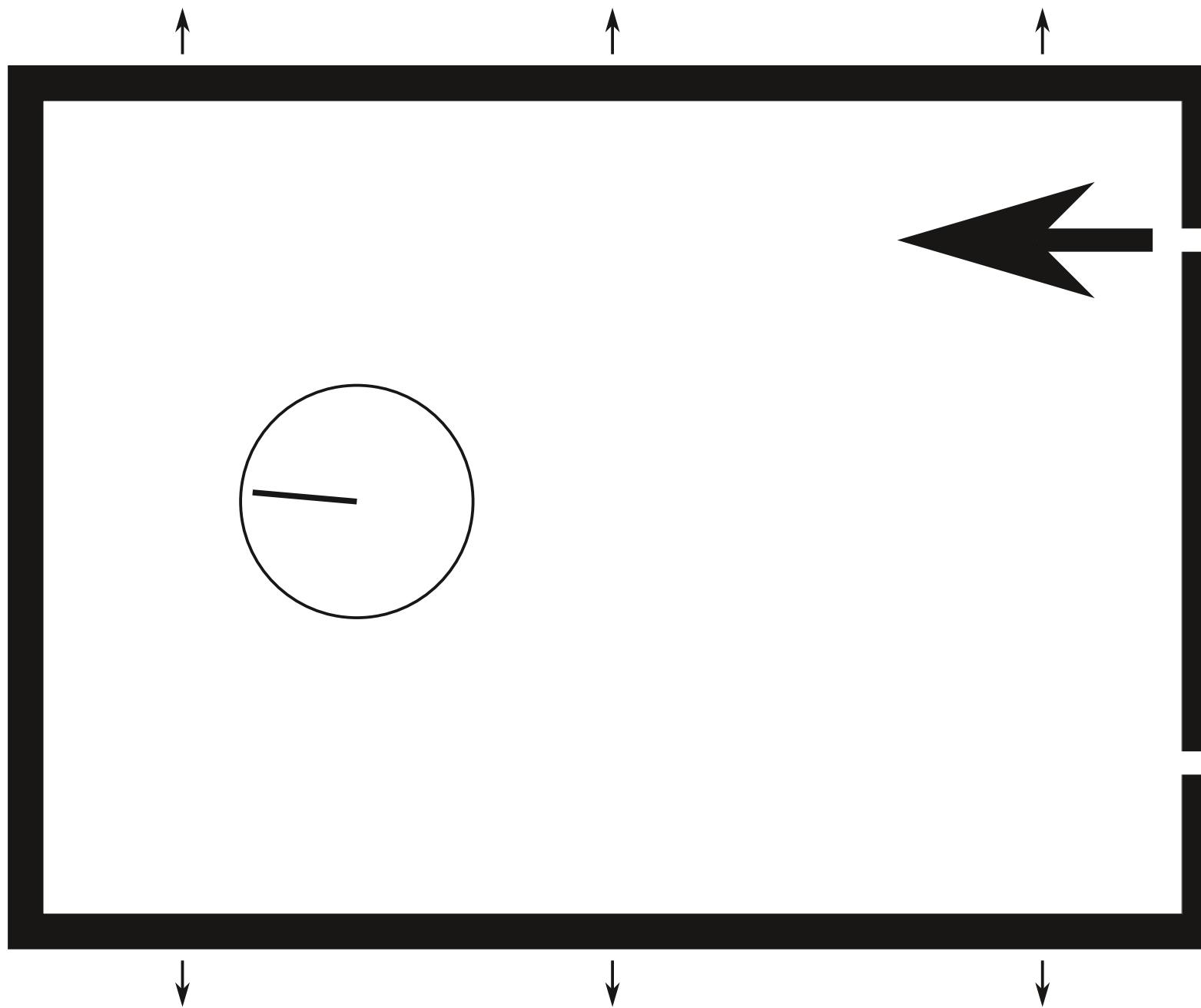
# Leaky house, air pressure inside rises only slightly



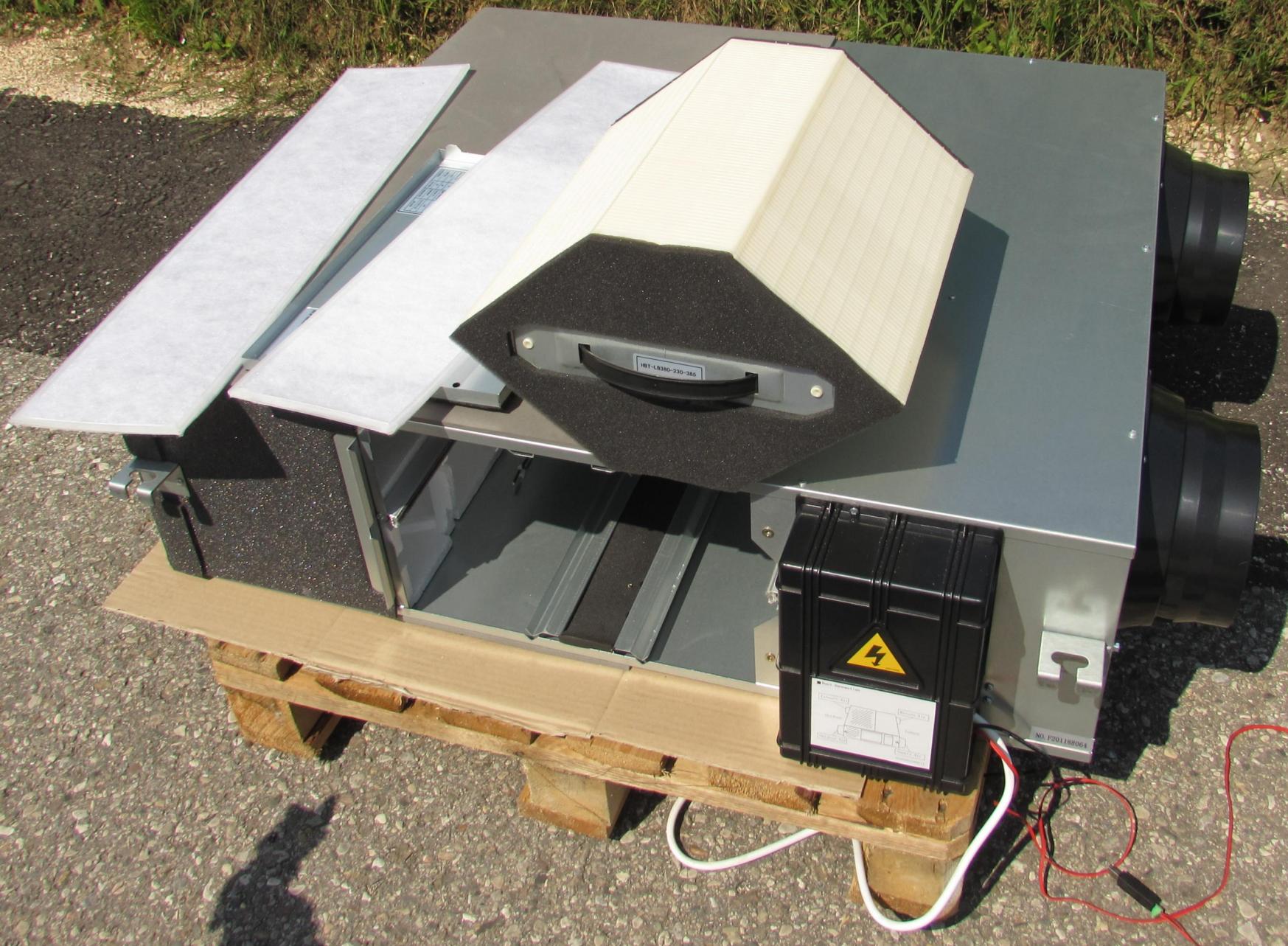
# No house is as tight as a submarine



# Air risk defense mode







# Ventilation system with heat recovery and



moisture recovery from exhaust air