




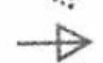
Results of Case Study at University Innsbruck



Wien, 14.10.2016

VC: Airflow paths

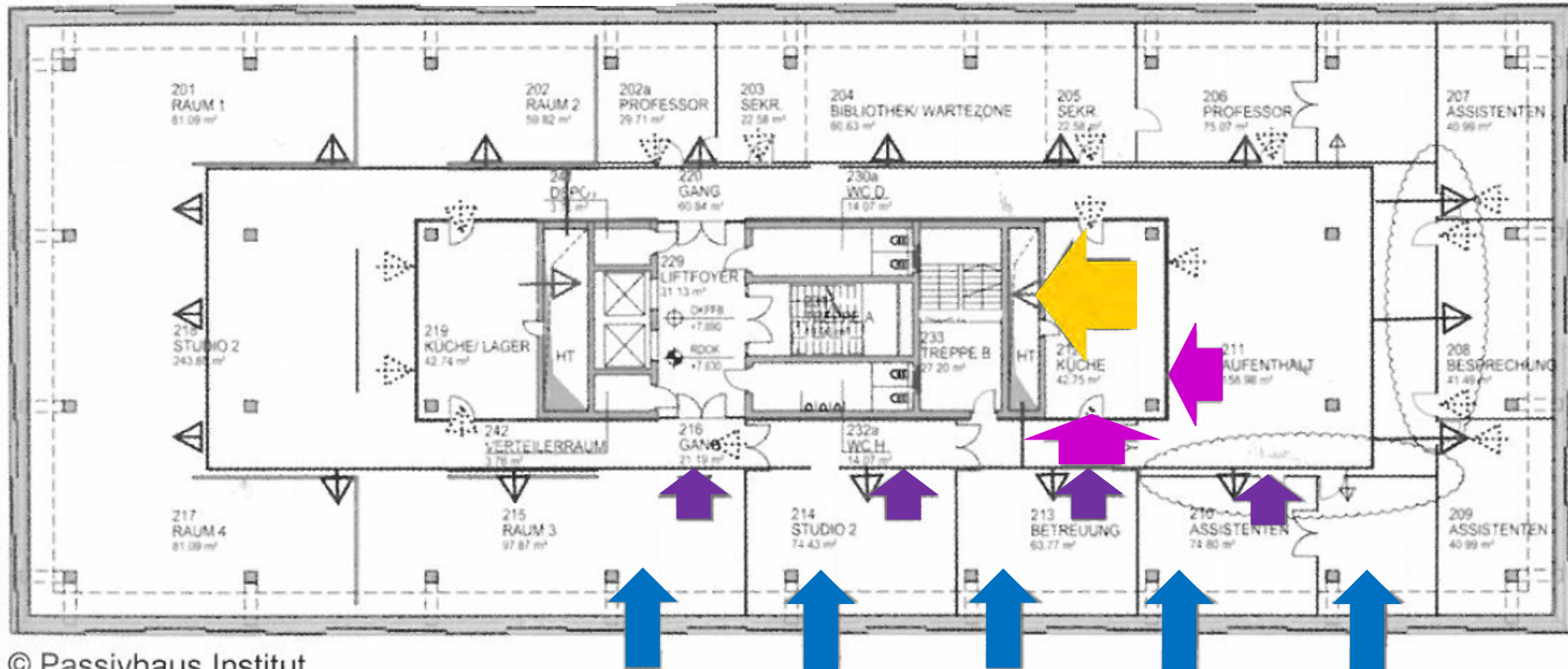
Mechanical ventilation:

-  Supply air duct
-  Supply air
-  Overflow orifice
-  Exhaust air

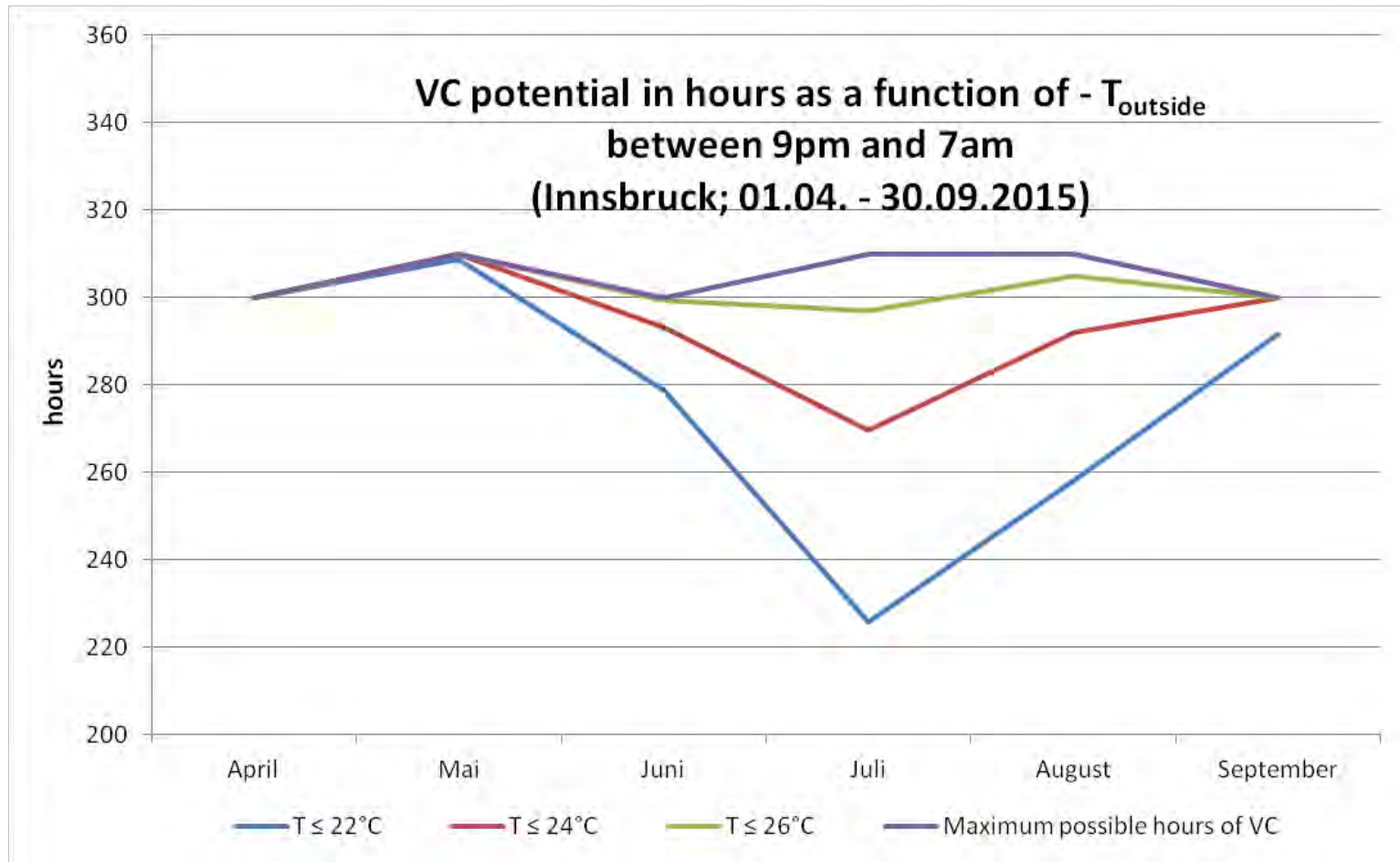
Natural ventilation during night:

(with support from the exhaust air system)

- Supply air  Overflow orifice  Overflow orifice  Exhaust air 



VC potential at Uni Innsbruck



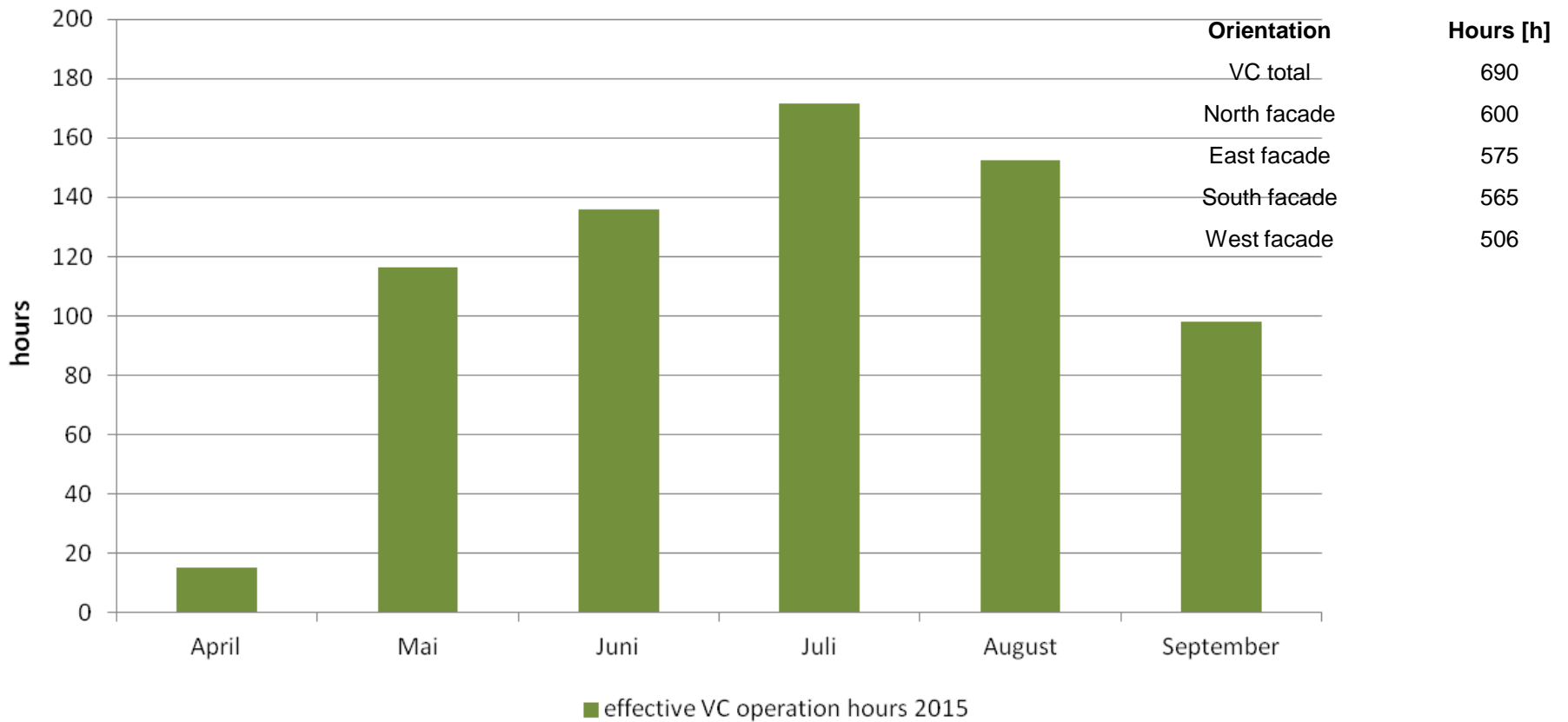
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VC potential at Uni Innsbruck

Total operation hours: 690 h spread over 119 nights



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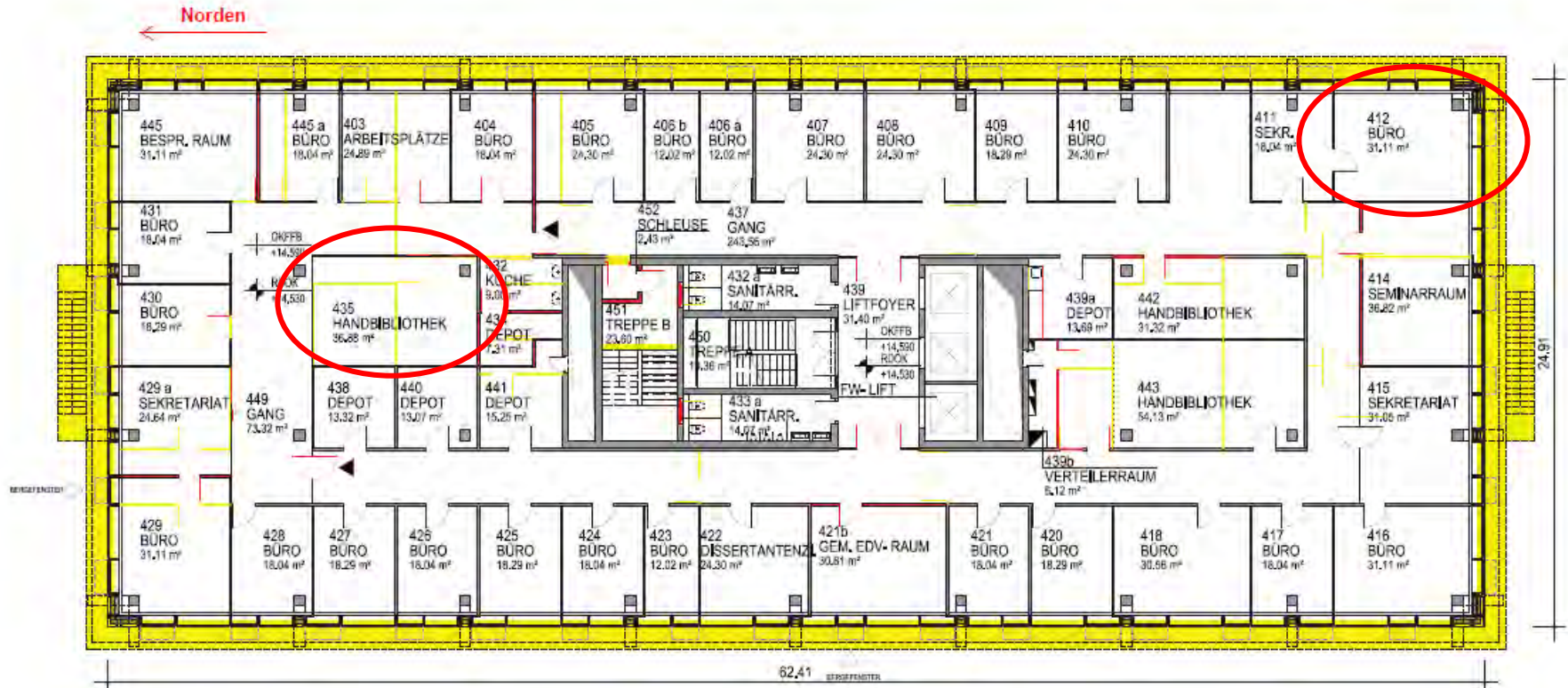
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Electricity consumption ventilation system during VC (9pm – 7am)

Ventilation system	L01 North	L02 South
Exhaust fan power by data sheet	5,78 kW	2,79 kW
Measured electricity consumption	3.225 kWh	1.775 kWh
Calculated full load hours	558 h	636 h

Reference rooms



Source: ATP Architekten

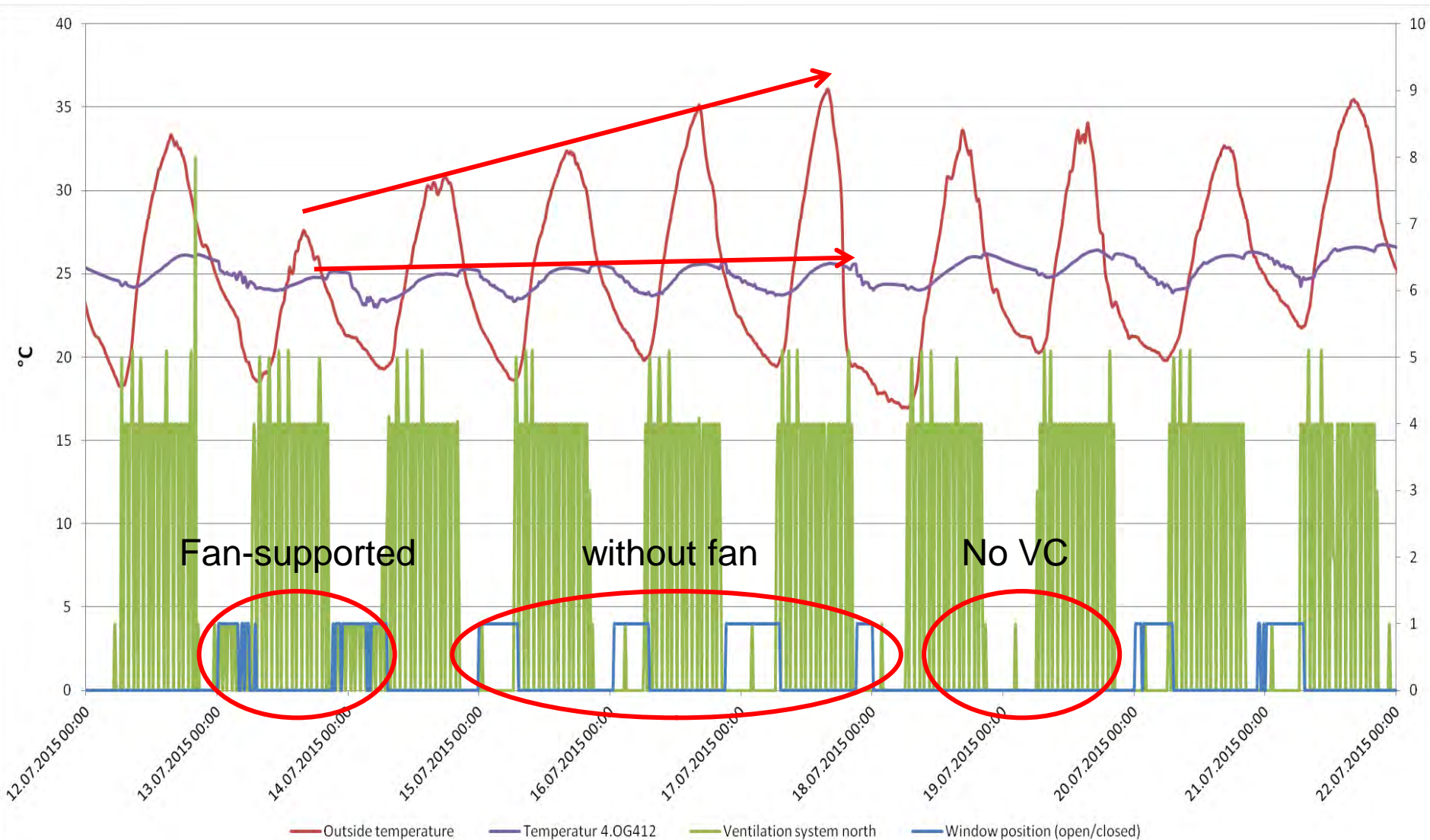
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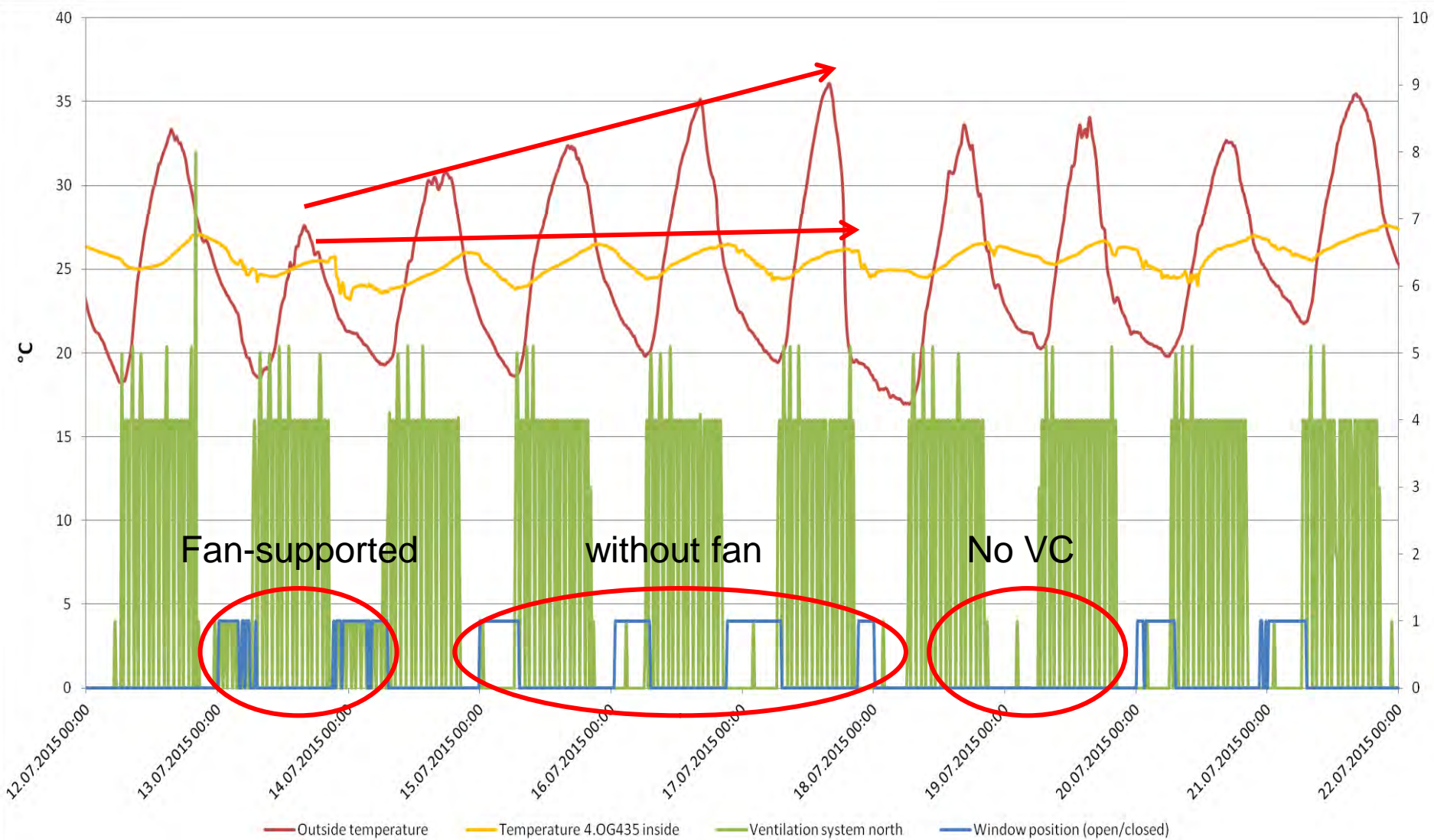
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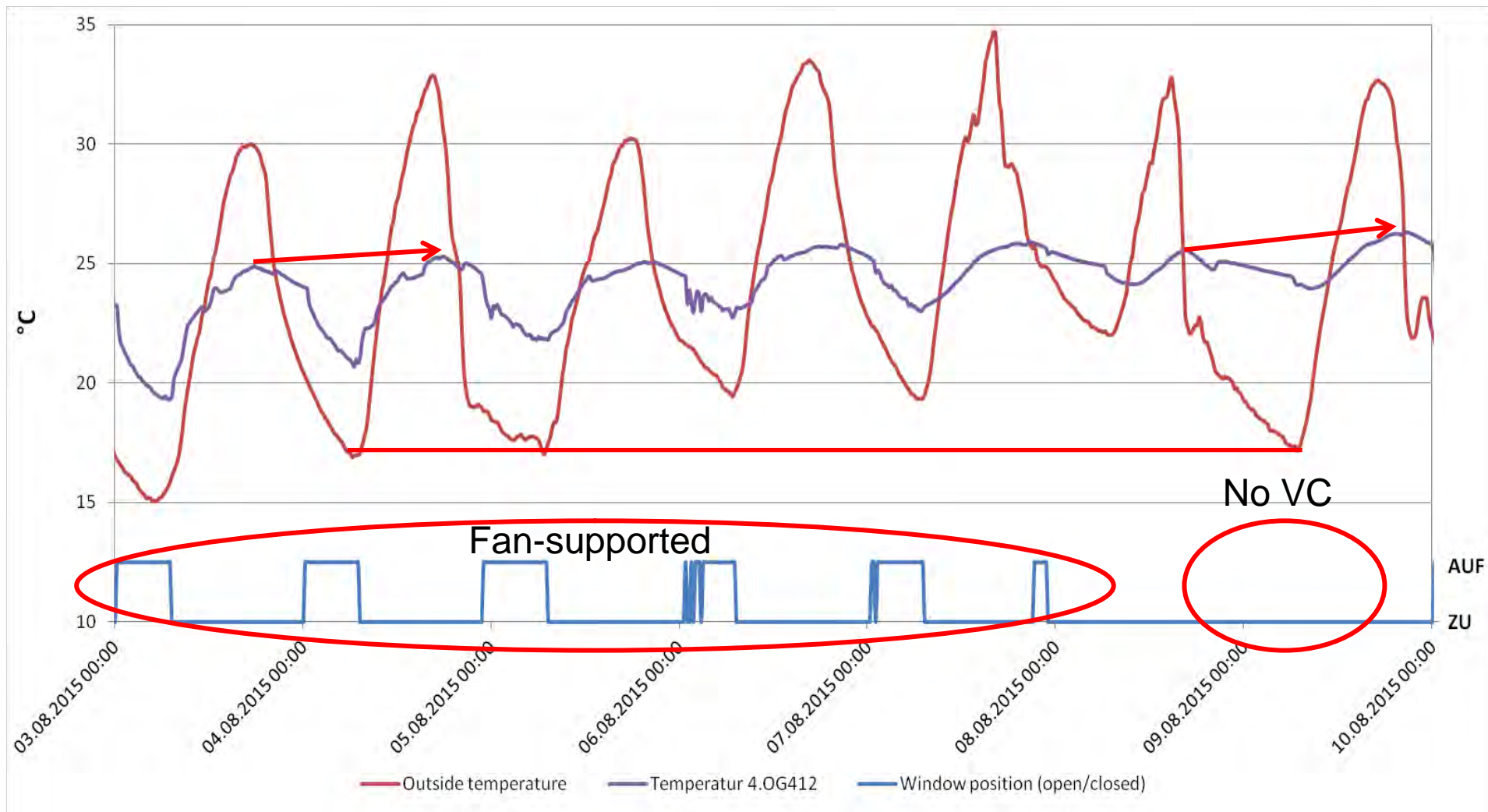
Room 4.OG 412



Room 4.OG 435 inside



Room 4.OG 412

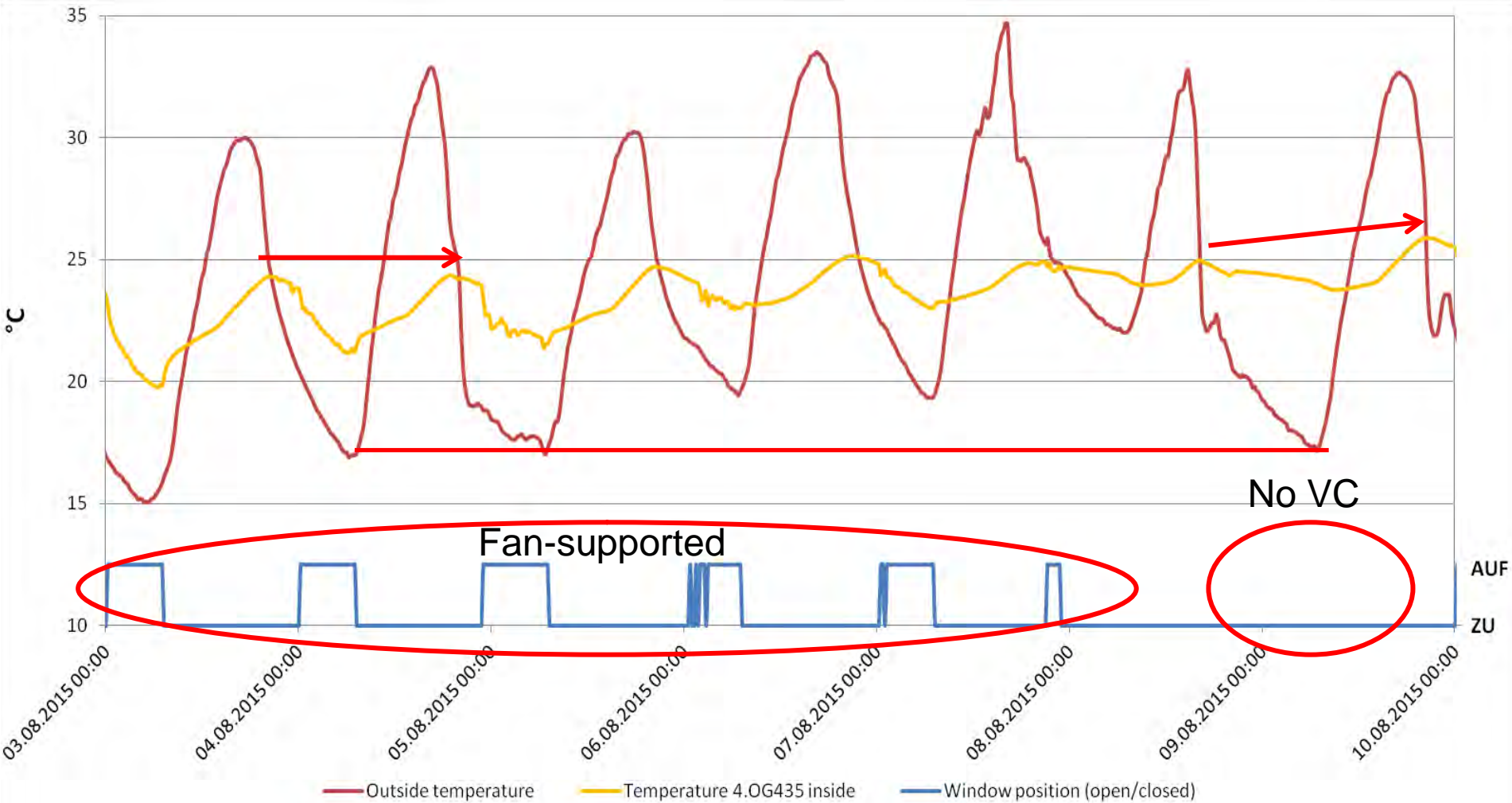


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Room 4.OG 435 inside



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Thank you!



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