

## Task 3.6 Manufacturer Involvement

### Documentation workshop on Facade Integrated Ventilation

online, 16.11.2023

outPHit Partner: Passive House Institute (PHI), University of Innsbruck (UIbk)

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#### CONTACT

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#### **OUTPHIT – DEEP RETROFITS MADE FASTER, CHEAPER AND MORE RELIABLE**

outPHit pairs such approaches with the rigour of Passive House principles to make deep retrofits cost-effective, faster and more reliable. On the basis of case studies across Europe and in collaboration with a wide variety of stakeholders, outPHit is addressing barriers to the uptake of high quality deep retrofits while facilitating the development of high performance renovation systems, tools for decision making and quality assurance safeguards. [outphit.eu](https://outphit.eu)



## Participants

| <b>Company</b>  | <b>Name</b> |             |
|-----------------|-------------|-------------|
| Core            | Alexander   | Hehn        |
| Core            | Christian   | Hirsch      |
| Ostberg         | Mikael      | Östberg     |
| Ostberg         | Johan       | Siverklev   |
| Vallox          | Jürgen      | Kink        |
| Helios          | Wilfried    | Löffler     |
| Kermi GmbH      | Christian   | Freundorfer |
| DUCO            | Brecht      | Wittouck    |
| Maico           | Linus       | Alber       |
| Meltem          | Klaus       | Feichtmeier |
| Soler und Palau | Invan       | Hidaldo     |
| Pichler         | Herbert     | Primig      |
| Viessmann       | Maxim       | Rohn        |

## AGENDA

- 9:00 Welcome
- 9:15 Presentation of new concepts for facade-integrated ventilation by Rainer Pfluger/ University of Innsbruck in the working field of Energy efficient building.
- 10:00 Discussion

## MINUTES OF DISCUSSION

### HEAT EXCHANGER

Heat exchanger company Core is interested in supporting new developments and can imagine developing heat exchangers with better circular surface optimisation. Core is open to further discussions.

### DEVICE

Difficulties that have been addressed:

- Filter exchange via user could be difficult as long as no balcony for outdoor filter change is available (heat exchanger need to be removed)
- Sound reduction challenging, special flat silencers needed (e.g. laminar flow duct system and silencer as developed at University of Innsbruck)
- Getting the whole unit out of the wall could be difficult for the user
- Drill whole of 300 to 400 mm could in some cases be difficult for reasons of statics

Already devices available suitable for different installation options, but for refurbishments usually ventilation unit surface-mounted inside, living space is lost. Housing associations in particular could be interested in a more space-saving solution.

The large refurbishment market requires many different solutions, one interesting option could be the cylindrically (if necessary inclined) device arrangement. Especially for buildings with already installed external insulation systems (ETICS), cylindrically shaped devices could be an interesting option.

Waiting for further feedback.

#### **FURTHER INFORMATION**

EU projects on façade-integrated ventilation:

<https://aegirproject.eu/hi-there/>

<https://www.lowex-bestand.de/index.php/fihls/?lang=en>

<https://renozeb.eu/about/renozeb-in-a-nutshell.html>

End of patent for circular heat exchanger:

<https://worldwide.espacenet.com/patent/search/family/063080455/publication/EP3638970A1?q=pn%3DEP3638970A1>

for further information please contact [johan@siverklev.se](mailto:johan@siverklev.se)