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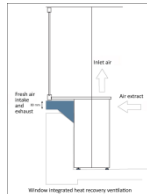
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Active Roofs and Facades in Sustainable Renovation

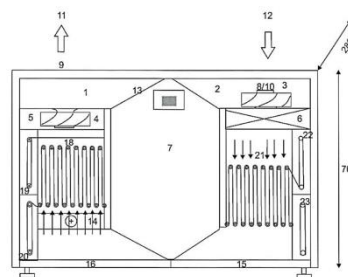
The Nordic Built “Active Roofs and Facades in Sustainable Renovation” project is supported by Nordic Innovation allowing strong development of leading Nordic competences in the area of building renovation. The proposed cooperation with the building industry on developing models and the demonstration of “Active House” based sustainable renovation will create a strong Nordic alliance. The project runs from 2014 to 2017 and will involve companies which are represented in the Nordic countries and companies from the international Active House Alliance, www.activehouse.info . The development will use the best transnational competences and networks, creating greater possibilities to export technology. Together with a strong focus on “Performance Documentation”, practical demonstration includes the winning entry in the Nordic Built Challenge architectural competition, school renovation in Copenhagen and housing renovation in Malmö, Sweden. (www.activeroofsandfacades.com)



Grøndalsvænge School in Copenhagen.
Window integrated heat recovery ventilation from Ecovent.



New windows with integrated air inlet and outlet in the frame



	1080	Electricity use	Dry HRV efficiency	SEL / SFP
3. Fresh air fan				
4. Exhaust fan				
7. Air to air heat exchanger		m ³ /h	W	
13. Control		125	21	89
14. Heating element		200	42	87
18. Automatic filter system (inlet)				615
21. Automatic filter system (exhaust)				770
22. Clean filter material				
23. Used filter material				



Copenhagen Urban Renewal project



The Ellebo Garden Room housing renovation in Ballerup. Winning project of the Nordic Built Challenge Architectural Competition.



PV assisted ventilation in urban



www.greensolarcities.com.

Updated Ecovent HRV unit for school renovation



Decentralised HRV in urban renewal in Copenhagen