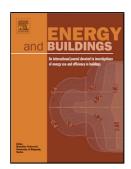
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Authors: Umberto Berardi, Pablo La Roche, Jose Manuel Almodovar



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ACCEPTED MANUSCRIPT

Water-to-air-heat exchanger and indirect evaporative cooling in buildings with green roofs

Umberto Berardi Associate Professor Faculty of Engineering and Architectural Science Ryerson University, Toronto, ON. uberardi@ryerson.ca<mailto:uberardi@ryerson.ca>

Pablo La Roche Professor Department of Architecture Cal Poly Pomona pmlaroche@csupomona.edu<mailto:pmlaroche@csupomona.edu>

Jose Manuel Almodovar Universidad de Sevilla, Spain <u>jmalmodovar@us.es<mailto:jmalmodovar@us.es</u>>

Highlights

• Green roofs may be problematic in climates with high cooling loads when they remain too warm over night

• Water-to-air heat exchangers may provide an additional cooling strategy for buildings with green roofs

• An investigation of the coupling of green roofs with water-to-air heat exchangers is performed

• Test cells using different water-to-air heat exchangers have been monitored in a hot and dry climate for over a year

• The additional benefits of evaporative cooling to the water heat sink tank are assessed

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