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## ENERGY in BUILDINGS 2017

Saturday October 21, 2017  
Athens, Hellas



<b>#</b>	<b>Alessio Scantamburlo</b> Energy Engineer	
Title:	Product Manager at Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A.	
email:	alessio.scantamburlo@melcohit.com	•
Presentation title:	<b>Smart heat pumps for high efficiency, low carbon 4-pipe hydronic plants</b>	
<p>Increasingly complex thermal loads characterize modern mixed-use buildings like shopping centers, large business centers, hotels, swimming pools, etc. The simultaneous and independent demand for heating and cooling, in two different hydraulic circuits, is therefore progressively more common. The technology inside the 4-pipe smart heat pumps allows the delivery of hot and cold water to the system, fulfilling every combination of loads and achieving high energy efficiency and sustainability targets in 4-pipe hydronic plants.</p> <p>Presentation topics will be:</p> <ul style="list-style-type: none"> <li>• Operating principles and advantages of 4-pipe smart heat pumps</li> <li>• The “+2P” solution to produce very high temperature hot water (up to 78°C) in a 6-pipe unit</li> <li>• Ecodesign directive: impact on reversible heat pumps</li> <li>• Case study: a real 4-pipe smart heat pump plant</li> </ul>		
CV:		
<p>I worked in the technical/R&amp;D department for a hydronic terminals company, where I completed my master thesis, which focused on a residential mechanical ventilation unit with heat recovery. I had then a brief work experience in a start-up engineering firm specialized in refurbishing residential buildings. Two years ago I started working as a Product Manager for Climaveneta (brand of Mitsubishi Electric Hydronics &amp; IT Cooling Systems S.p.A.) dealing with commercial and industrial chillers and heat pumps.</p>		