



Challenging Waste heat recovery scenarios

Round I Injurysity London Heat pipe based systems for waste heat recovery and renewable energy – H Jouhara, 2016

OVERVIEW

- > The potential of the heat pipe technology in challenging waste heat recovery applications
- Heat pipes, an overview
- > Typical configurations of heat pipe units for waste heat recovery applications
- > Case studies

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Challenging waste heat recovery scenarios

Many industrial processes generate highly difficult exhaust conditions that can be characterised as follows:

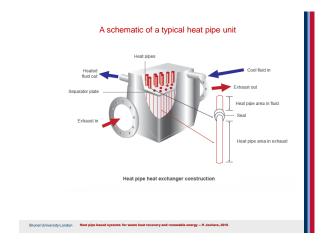
- 1. High temperatures / mass flows
- High particulate content that is abrasive and / or can cause fouling
- 3. Highly corrosive, acidic content SO2, SO3, NO2, etc.

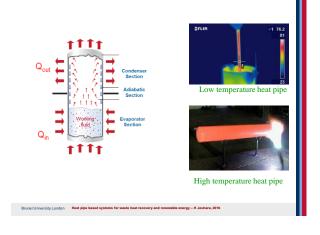
Heat pipes can manage these difficult conditions!





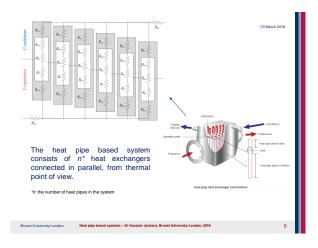
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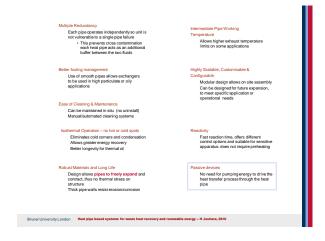




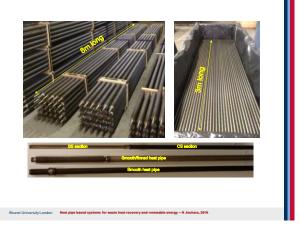
"Heat Pipes"
What are they?

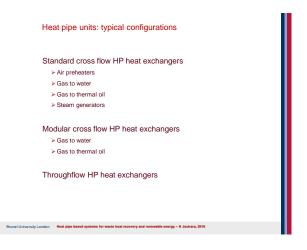
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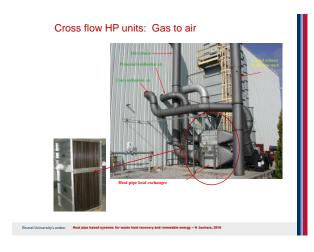


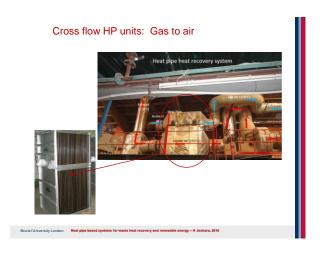






























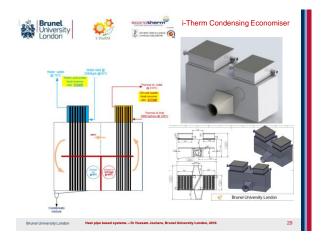
Steam Condenser, Food, Dirty Steam, Ireland

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