Annex 46
Dutch Project on Domestic Hot Water Heat Pumps

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Dutch Project on Domestic Hot Water Heat Pumps

1. Description of project
2. Types of Heat Pumps applied
3. Observations in practice
4. Solutions
5. Project in future
Description of project

• Appartment block of 42 units rented to occupant by a social housing corporation
• Project build in 2011
• Heating installation run by an EsCo
• Small families (1 – 2 persons)
Types of Heat Pumps applied

• For space heating a central heat pumps is used with convectors and floor heating

• For DHW individual DHW Heat pumps are installed with a storage capacity of 300 liters each
Observations in practice
• Sizing is not optimized
  • Consequence: high energy use and low performance > complaints
• ventilation flow rate too high
  • Draught > complaints
• Lot of maintenance needed (esp the anode in the vessel)
• Difficult to maintain
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Solutions
After a fire probably due to short circuit in electrical wiring and leakage of storage tanks it was decided to look for another solution.

• Smaller tank size to better fit the demand
• Wall hung to better service
• Better insulation grade
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Solution
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Project in future under Annex 46

• First storage tank is replaced
• Installed by energy company ENECO
• Next 41 will follow
• Monitoring on energy use

Ventilation is the main question in the follow up of the project
Thank you for your attention!

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