

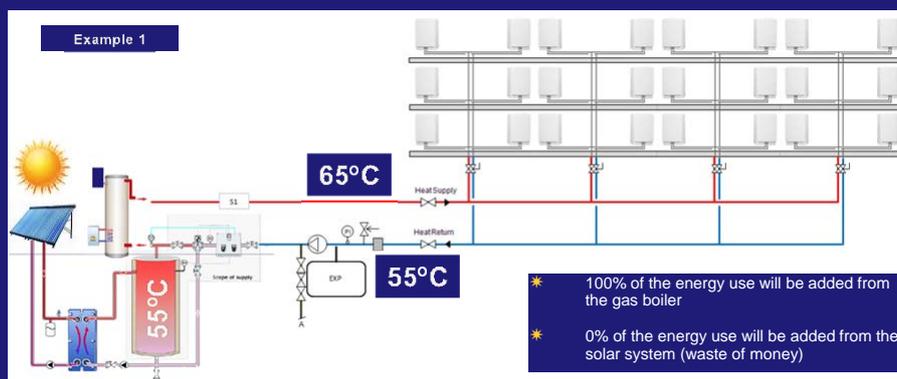


## Maximizing the use of solar energy with low return temperatures

SDH Conference in Malmö  
April 9-10 th 2013

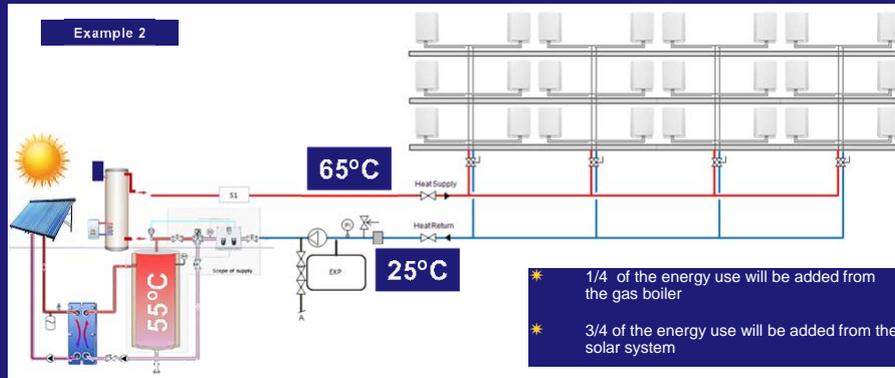
Mats Carselid  
Marketing Engineer  
Alfa Laval Lund

### Utilizing of the solar energy in a standard system



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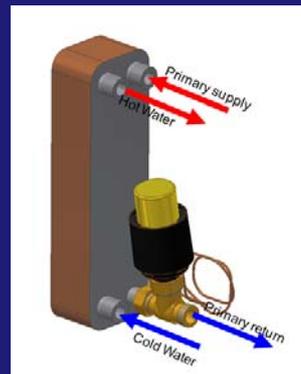
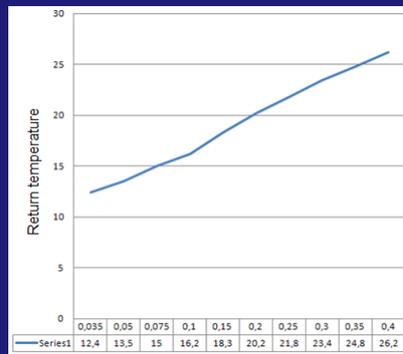
## Scenario with lower return temperature



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## Success factors for renewable systems

Efficient and compact heat exchanger with IS technology gives extremely low return temperatures already with very small flows.



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## AlfaPilot

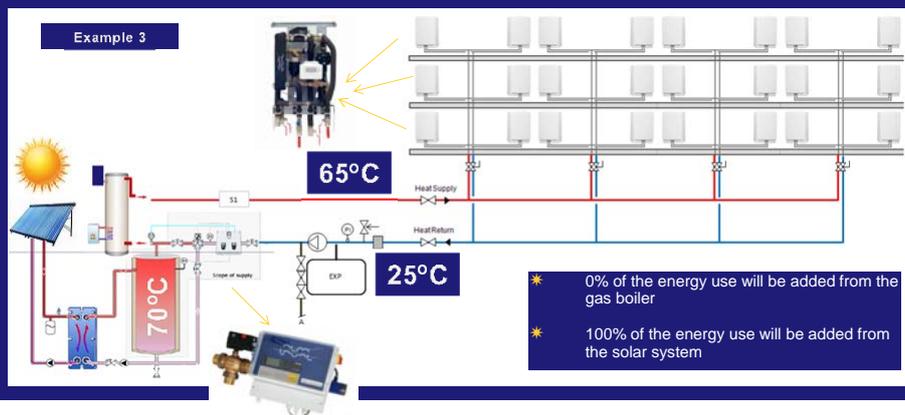
AlfaPilot is a fluid navigation system that gives priority to renewable before any use of fossil energy. Installed on the heat return loop, parallel to a primary storage tank, AlfaPilot is dedicated for low primary return systems.

### Benefits of AlfaPilot

- On-going priority given to the use of renewable energy
- Allows pre-heating, even at low temperatures
- Supply of DHW during peak demands thanks to storage of energy accumulated in the primary tank
- Supplies also DHW at low demand periods during recycling
- Protects the user and the equipment during summer over-heating periods on solar installations
- No scaling, legionella or DHW health issues, no risk of inter-circuit leakage between the solar and the DHW loop as the solar circuit is not in contact with DHW



## Alfa Laval low return temperature system



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