



Charles Paulsen

*Aalberts hydronic
flow control*

KWR

Bridging Science to Practice





hydraulic flow
control

FlexTherm Eco



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Enabling the growth of sustainable and renewable energy

through thermal energy storage.

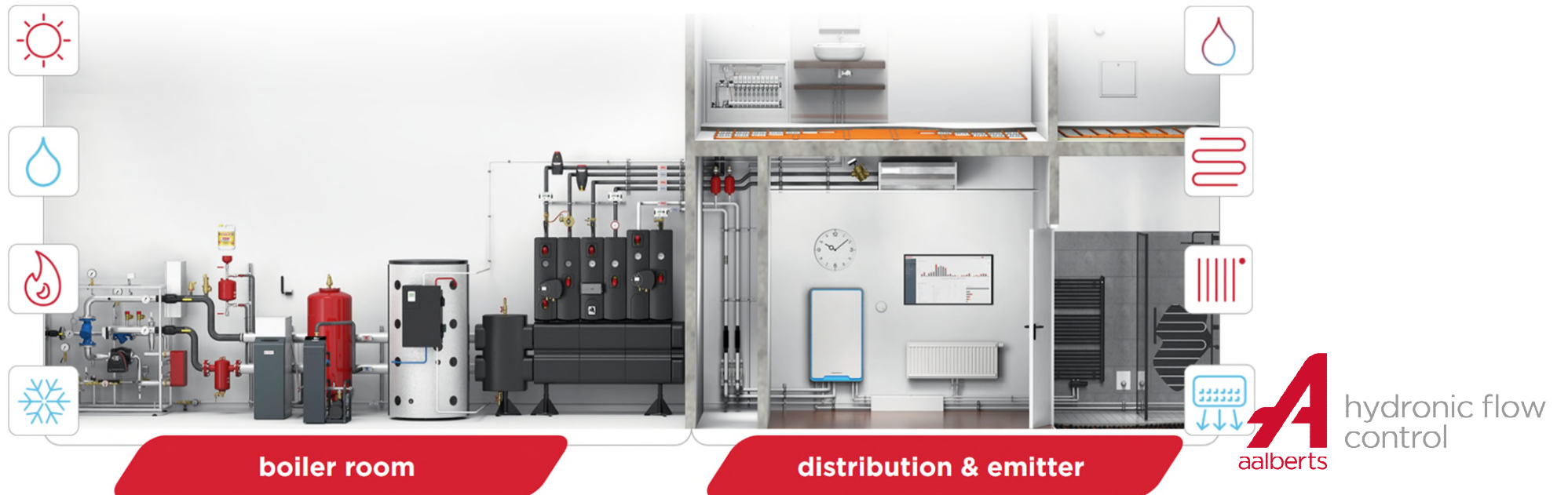
we are Aalberts hydronic flow control

our source to emitter portfolio

will maximize energy efficiency,

optimize operations and

extend the lifetime of your systems.



The challenge?

**increase the share of renewable and
sustainable energy sources**

while ensuring supply matches demand

The aim.....
accelerate the decarbonization of heat
help establish a stable, reliable electrical system
powered by renewables
provide flexibility by storing excess energy at peak
supply
and using the energy as heat when demand requires
it

the solution?



Flextherm Eco

Thermal Energy Storage – Phase Change Materials

Maximise energy potential through latent heat

Scalable from 3,5kWh to 5MWh

40.000 + cycle stability (50 years)

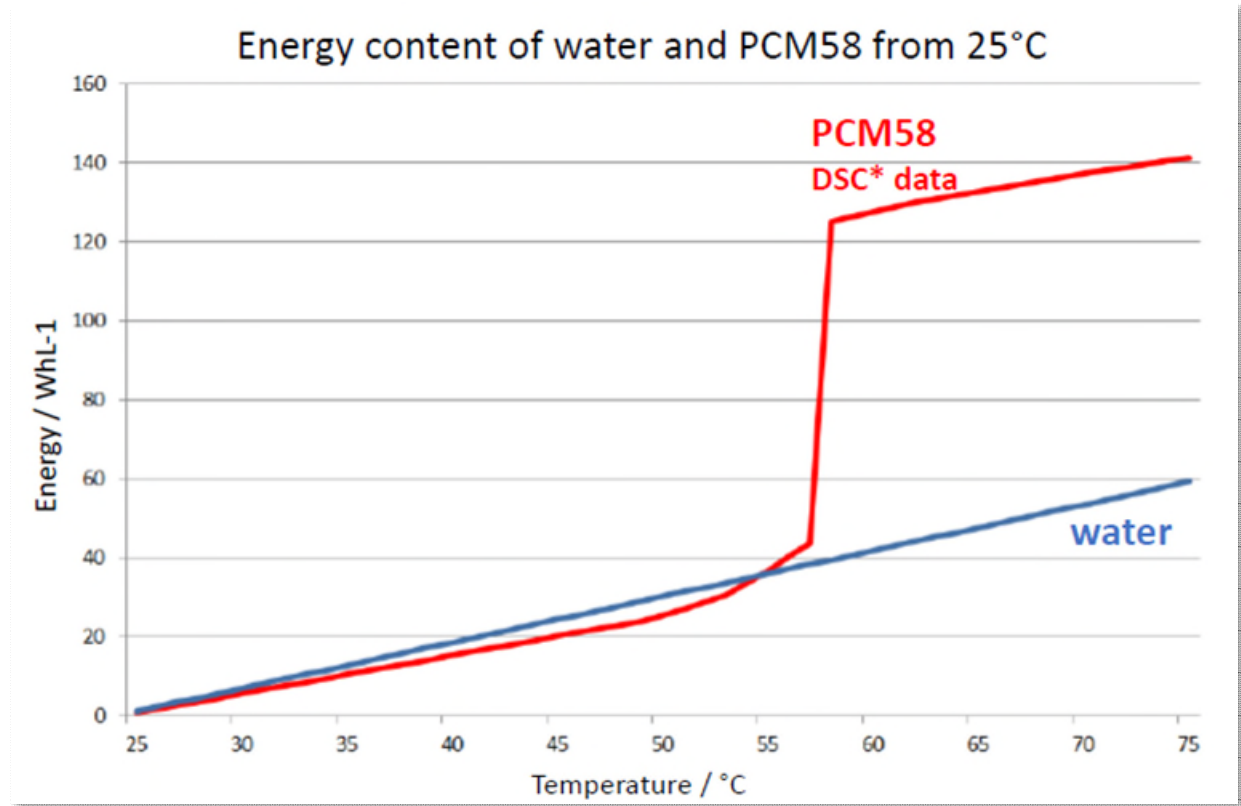
Stable, quick energy release

Sustainable sourcing

Non-flammable

Non-toxic

latent energy

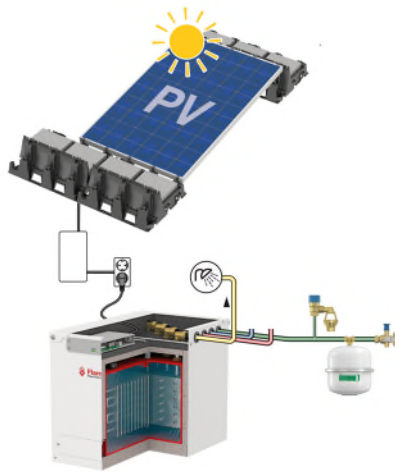


maximise the space

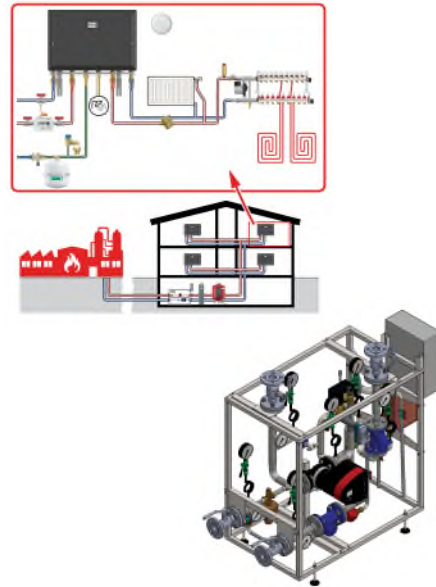
up to 3 times smaller



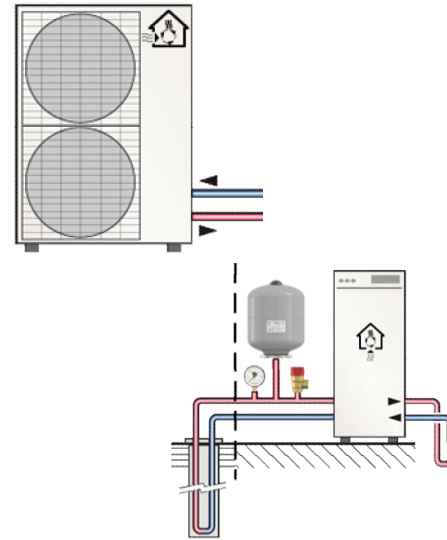
applications



residential homes



district heating networks
waste heat



heat pumps



commercial
heating or cooling

+ 13,65 MWh installed capacity in the Netherlands



Groningen

570kWh

storage
capacity



Homeowners

3,5 – 12 kWh

storage
capacity



Brabantse

220kWh

storage
capacity



CHP storage

180kWh

storage
capacity



thank you

www.aalberts-hfc.com



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