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An Advanced Instruments Company

NALMA 2011 Vancouver



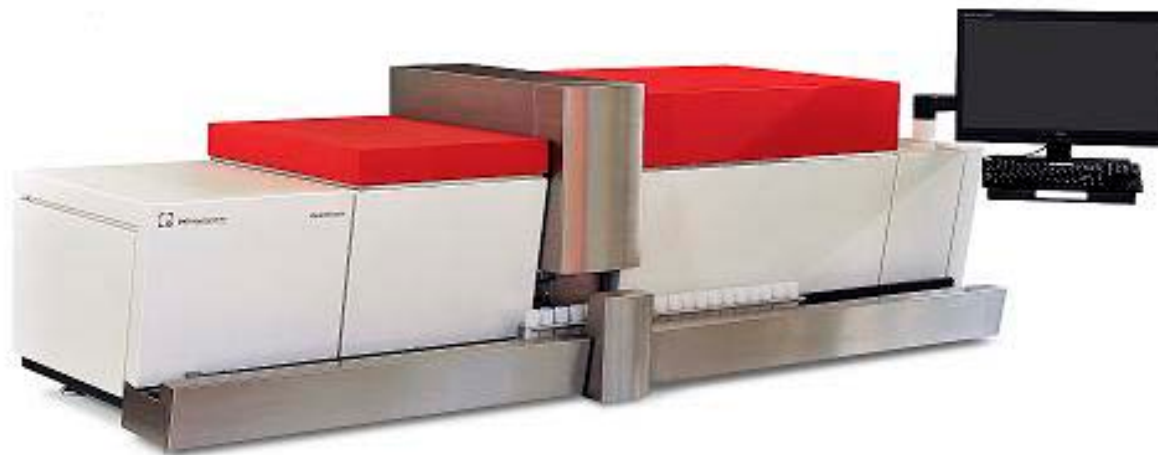
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Introducing Combiscope FTIR600 HP/CP



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Features



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- Lifetime warranty on FTIR scanning mechanism
- Maintenance free diode laser in the FTIR
- LED source In the Somascope. No adjustment, no change of intensity during its lifetime.



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Wopke Beukema Sales & Marketing



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Six Sigma Development process



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In the process we learned that:
Higher speed
In Combination with minor
components
makes IR-equipment more
sensitive to,
Sample input temperature



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Most important temperature for
IR
Is the cell window temperature



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Sample input temperature
with traditional cell heating systems
Typically between 38-41 C

This can be a problem for
operators to achieve



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Traditional cell heating systems
use a thermal mass
of the cellblock to compensate
for sample temperature
fluctuations.



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Traditional cell heating can handle small temperature fluctuations for a relatively short period (10-15 samples)

The reaction time of the regulation is typically slow (minutes)



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So, what have we done
Designed a new concept
DT-control

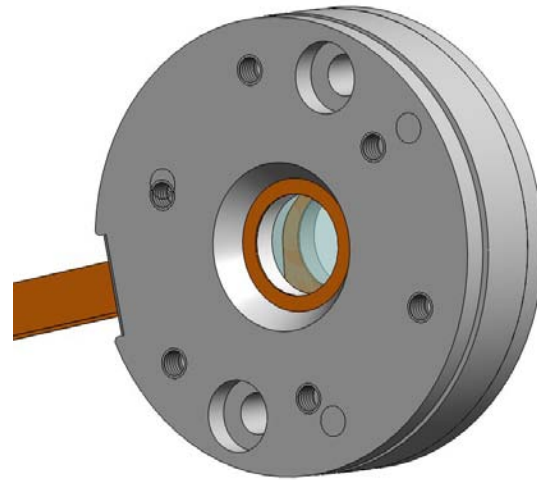


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DT-control



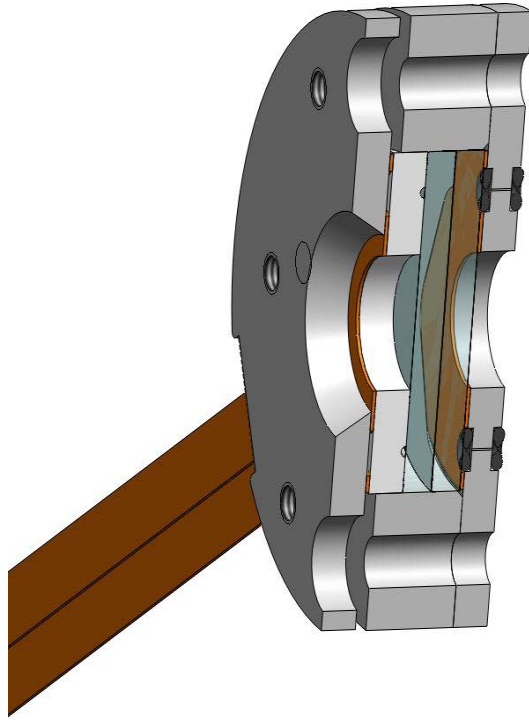
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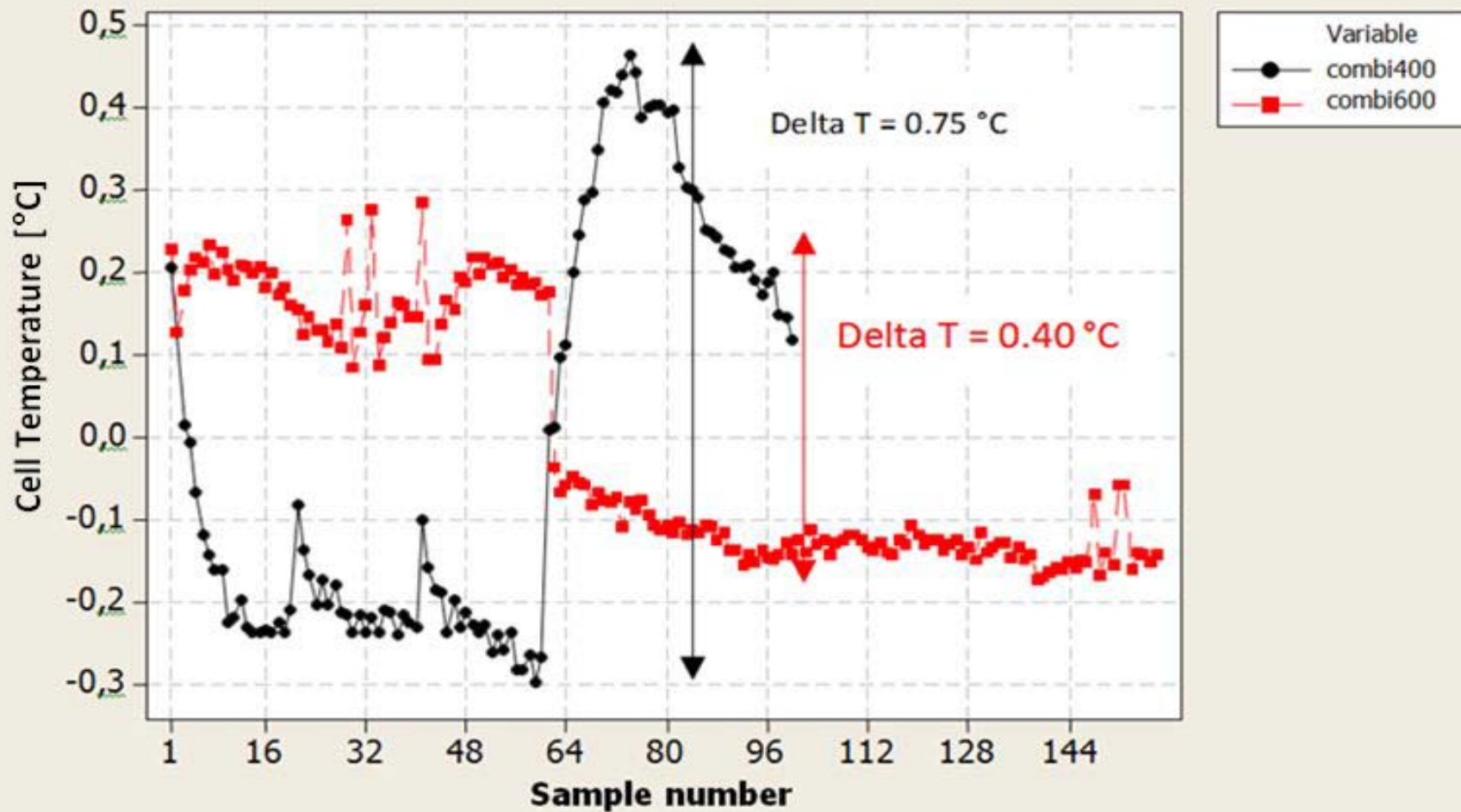
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Directly control the temperature
of the cell windows.
(patent pending)



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Sample temperature 33 °C (first 60) and 40 °C (sample 61 and further)





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Benefits:

Input temperature of 35-41C
with 600 samples per hour
maintaining specifications.



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