

# Case Study

## JULABO ME-18V

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### Cooling of a transparent bath circulator ME-18V with an immersion cooler FT900



#### The Objective

The objective was to find out down to which temperature the immersion cooler FT900 can cool the ME-18V while maintaining a clear sight at the bath.



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The ME-18V standard version has 2 bath openings. For the case study the unit was equipped with the optional cover # 8 970 294 which features 4 bath openings. So even after the FT900 cooling probe had been fixed using one bath opening left for use in viscosity measurement.



#### Results

The immersion cooler FT900 was able to cool the ME-18V from +20 °C down to -40 °C within 135 minutes. Down to a temperature of -40 °C there was a rather clear sight at the bath. Ice was



only forming at the outer parts of the glass window. Only when going below -40 °C the sight was inhibited by a stronger formation of ice. As a summary one can say that the combination of an ME-18V with an immersion cooler Ft900 is an efficient and economic way for viscosity measurement at low temperatures.

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