Juliaho Case Study

JULABO PRESTO® W91tt

Heating a 100 liters reactor from -50 °C to +20 °C



Objective

This case study tests the cooling power of JULABO PRESTO® W91tt with a 100 liters glass reactor. The W91tt is connected to the reactor via two 2.0 m metal tubings. The W91tt is programmed to heat up from -50 °C to +20 °C.

Environment

Room temperature +20 °C Humidity 45 %

Voltage 3 x 400 V / 50 Hz

Test Conditions

JULABO unit JULABO PRESTO® W91tt

Cooling power +20 °C | 11.0 kW

0 °C | 10.0 kW

-20 °C | 9.5 kW

Heating capacity 36 kW
Band limit without
Flow pressure 0.45 bar

Bath fluid JULABO Thermal HL80

Reactor 100 liters glass reactor (Büchiglas)

filled with 100 liters Thermal HL80

Control External (ICC)



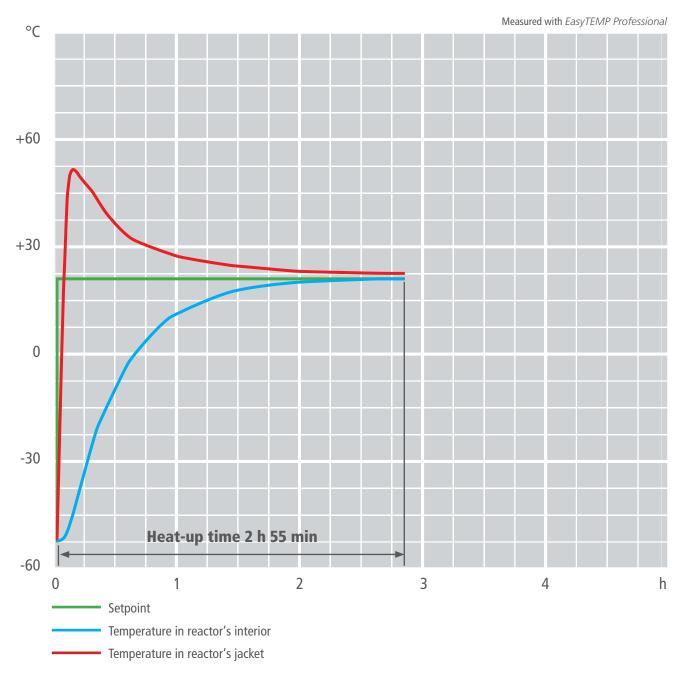
Test Results

See chart on back page: The W91tt heats up the reactor from -50 $^{\circ}$ C to +20 $^{\circ}$ C in 2 h 55 min. +20 $^{\circ}$ C are hit without overshoot.



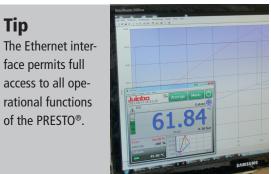
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Tip

Make use of
the option to
regulate the pump
pressure. You can
define the desired
pressure in the
PRESTO® settings.



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