

PRESTO[®] A80t Cooling a 20 liters reactor from +20 °C to 0 °C

Objective

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This case study tests the cooling power of PRESTO[®] A80t with a 20 liters glass reactor. The PRESTO[®] A80t is connected to the reactor via two 1 m metal tubings. The PRESTO[®] A80t is programmed to cool down from +20 °C to 0 °C.



Room temperature	+20 °C
Humidity	45 %
Voltage	208 V / 60 Hz

Test Conditions

JULABO unit Cooling power

Heating capacity Band limit Flow pressure Bath fluid Reactor

Jacket volume

Control

0 °C 1.2 kW -20 °C 1.1 kW 3.4 kW with 0.5 bar Thermal HL80 20 l glass reactor (Chemglass) filled with 19 l Ethanol 8 l External (ICC)

PRESTO® A80t

+20 °C 1.2 kW



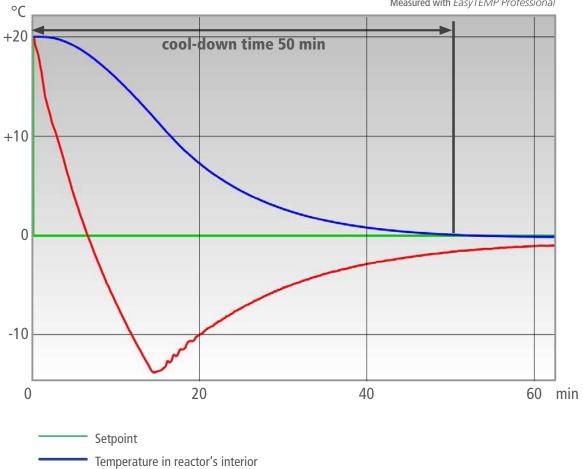




Test Results

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The PRESTO® A80t cooling process from +20 °C to 0 °C in 50 min without overshoot.

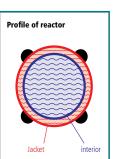


Measured with EasyTEMP Professional

Tip

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Protect your reactor. The function "band limit" (see above) permits setting the max. temperature difference between jacket and internal vessel.



Temperature in reactor's jacket

Tip

Use our tube adapters and your tubing will no longer kink.

