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# Flow configuration and its relation to the heat flux in a rectangular convection box

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## Abstract

We report on measurement results in highly turbulent Rayleigh-Benard convection. Convection takes place in a 0.7 m high, 3.5 m long and 0.35 m wide rectangular box. The working fluid is pressurized sulfur-hexafluoride (SF<sub>6</sub>) at pressures of up to 18bar. In this setup, we reach Rayleigh numbers in the range  $10^{10} < Ra < 10^{13}$  and Prandtl numbers of 0.7

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