

Examples of cases

Isothermal incompressible flows

- [2D Eddy convection in a uniform velocity field](#)
 - [2D laminar channel flow](#)
 - [2D laminar channel flow with a constriction](#)
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Incompressible flows with heat transfer (conduction & advection)

- [2D laminar channel flow containing a heated square bar](#)
 - [2D channel flow with a conductive square bar heated from the top wall](#)
 - [2D heat-driven cavity flow](#)
 - [2D Rayleigh-Bénard flow](#)
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Incompressible flows with heat transfer (conduction & advection & radiative transfer)

- [3D heat-driven cavity flow coupled with Real Gas Radiation](#)
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Low Mach number flows

- [successive compression cycles of a 2D quasi-adiabatic cavity](#)
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Thermo-acoustics

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<https://sunfluidh.lisn.upsaclay.fr/> - **Documentation du code de simulation numérique SUNFLUIDH**

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