

A heat exchanger (52) which may be used in an engine, such as a vehicle engine for an aircraft or orbital launch vehicle is provided. The heat exchanger (52) may be configured as generally drum-shaped with a multitude of spiral sections (108), each containing numerous small diameter tubes (120). The spiral sections may spiral inside one another. The heat exchanger may include a support structure with a plurality of mutually axially spaced hoop supports, and may incorporate an intermediate header (440). The heat exchanger may incorporate recycling of methanol or other antifreeze used to prevent blocking of the heat exchanger due to frost or ice formation.