

INTERNATIONAL
STANDARD

ISO
7421

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**Leisure accommodation vehicles — Liquefied
petroleum gas systems**

Véhicules habitables de loisirs — Installations de gaz de pétrole liquéfiés



Reference number
ISO 7421:1991(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 7421 was prepared by Technical Committee ISO/TC 177, *Caravans*.

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Leisure accommodation vehicles — Liquefied petroleum gas systems

1 Scope

This International Standard specifies requirements with reference to safety for installing liquefied petroleum gas systems and appliances supplied solely from liquefied petroleum gas cylinders, in leisure accommodation vehicles. It does not cover portable appliances or requirements for post-catalytic heaters in which the fuel remixing of gas and air is effected before the catalytic bed is reached; nor does it cover appliances employing after-burners in which the products of incomplete combustion from normal flames are further oxidized over a catalyst. Special requirements for the installation of space heaters in motor caravans are specified in ISO 8377-2.

NOTE 1 This International Standard is one of a series for the habitation aspects of leisure accommodation vehicles.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 7418:1989, *Leisure accommodation vehicles — Vocabulary*.

ISO 8377-2:—¹⁾, *Motor caravans — Part 2: Installation of oil-fuel-fired and liquefied petroleum gas-fired space heaters*.

1) To be published.

2) The capacity of such cylinders for propane will not exceed 5 kg in the United Kingdom and 2,7 kg in France.

ISO 9227:1990, *Corrosion tests in artificial atmospheres — Salt spray tests*.

3 Definitions

For the purposes of this International Standard, the definitions given in ISO 7418 apply.

4 Liquefied petroleum gas cylinders

4.1 Location of cylinders

Cylinders, whether full or otherwise, shall be located in fuel storage housings, fuel storage compartments or on fuel storage platforms which shall be located so that a cylinder is not outside the body contours of the leisure accommodation vehicle at the sides and rear nor on the roof nor, for a motor caravan, at the front. There shall not be access to a fuel storage compartment from the interior of the leisure accommodation vehicle if the compartment can contain more than one connected cylinder and one unconnected cylinder either of which has a capacity of more than 15 kg²⁾. The cover of any access from the interior of the leisure accommodation vehicle into a fuel storage compartment shall prevent the ingress of vapour into the interior of the leisure accommodation vehicle.

The design of a fuel storage housing or a fuel storage compartment shall permit access to connections and regulating devices and allow replacement of cylinders without disturbance to the installation and ancillary equipment. Where the leisure accommodation vehicle is a road vehicle, cylinders shall be secured in their normal upright position, both when the vehicle is in motion and when it is stationary, on a fuel storage platform, in a fuel storage housing or in a fuel storage compartment. It shall be possible for any cylinder-securing