

# INTERNATIONAL STANDARD

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## **Leisure accommodation vehicles — Motor caravans —**

### **Part 2:**

Installation of oil-fired and liquefied petroleum  
gas-fired space heaters

*Véhicules habitables de loisirs — Autocaravanes —*

*Partie 2: Installation des appareils de chauffage fonctionnant aux  
combustibles liquides ou aux gaz de pétrole liquéfiés*



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## 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 8377-2 was prepared by Technical Committee ISO/TC 177, *Caravans*.

ISO 8377 consists of the following parts, under the general title *Leisure accommodation vehicles — Motor caravans*:

- Part 1: *Habitation requirements*
- Part 2: *Installation of oil-fired and liquefied petroleum gas-fired space heaters*

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## Leisure accommodation vehicles — Motor caravans —

### Part 2:

### Installation of oil-fired and liquefied petroleum gas-fired space heaters

#### 1 Scope

This part of ISO 8377 specifies requirements, with particular reference to safety, for the installation in motor caravans of oil-fired petrol-fired or liquefied petroleum gas-fired, room-sealed space heaters of the types in 4.1.

NOTE 1 This part of ISO 8377 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 part of ISO 8377. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 8377 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 7420:1987, *Leisure accommodation vehicles — Oil-fired heating systems*.

ISO 7421:1991, *Leisure accommodation vehicles — Liquefied petroleum gas systems*.

#### 3 Definitions

For the purposes of this part of ISO 8377, the definitions given in ISO 7418 apply.

#### 4 Space heaters

##### 4.1 Type of heater

Space heaters shall be room-sealed. They shall be of the type that is capable of operating when a motor caravan is either stationary or in motion, or of the type that is capable of being used only when a motor caravan is stationary.

NOTE 2 In certain countries, space heaters will be required to be only of the type capable of operating both when the motor caravan is stationary and in motion.

##### 4.2 Fitting of heater

Space heaters shall be fitted in accordance with the manufacturer's instructions.

When a space heater is fitted within a radius of 1 200 mm from the centre of the driver's seat, no directly accessible part of the heater, ducting or any protective guard shall reach a temperature greater than 110 °C at the rated output of the space heater.

##### 4.3 Overheating

If a space heater that is capable of operating when a motor caravan is stationary or in motion overheats, it shall cut out and not restart automatically.

##### 4.4 Labels

###### 4.4.1 Informative label

The informative label carried by a space heater shall be readily seen when the space heater is installed. If this is not possible, a duplicate label shall be located adjacent to the space heater.

#### 4.4.2 Dating

The year in which the space heater is first installed shall be entered permanently on the label by the installer.

#### 4.4.3 Warning label

There shall be a label adjacent to the controls of any heater that is not designed to be used when a motor caravan is in motion. It shall be clearly visible and shall state:

"Do not use this heater when the motor caravan is in motion."

### 5 Fuel pipes

#### 5.1 Fuel pipes for liquefied petroleum gas

Fuel pipes for liquefied petroleum gas shall be installed in accordance with the requirements of ISO 7421.

#### 5.2 Pipes for oil and petrol

Fuel pipes for oil and petrol shall comply with the requirements for fuel pipes in the base vehicle and shall be installed in accordance with the requirements of ISO 7420.

### 6 Air intake

#### 6.1 General

Air for combustion shall be taken from outside the motor caravan. Any air inlet, whether admitting air for combustion or for passing over a heat exchanger, shall be positioned so that exhaust gases cannot be drawn in.

### 6.2 Joints

Ducts for air for combustion shall have a maximum of four joints within the habitation area.

### 6.3 Weather protection

Measures that do not obstruct the intake of air shall be taken to prevent rain, or water thrown up from the road, from entering an inlet.

### 7 Flues

Flues shall be installed in accordance with the requirements of ISO 7421.

### 8 Electrical operating switch

If a space heater is fitted with an electrical operating switch, the setting of the switch shall be clearly visible.

### 9 Users' Handbook

The items in both 9.1 and 9.2 shall be included in the Users' Handbook.

#### 9.1 Operating instructions

Operating instructions for a space heater, in the language of the country of sale, shall be given.

#### 9.2 Replacement of space heater components and flues

A statement worded as follows shall be included:

"In the interests of safety, it is essential that replacement parts for a space heater conform to the appliance manufacturer's specifications and should be fitted by them or their authorized agents."