OTHER
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DOCUMENT

ULC/ORD-C1373:2020

GUIDE FOR THE INVESTIGATION OF FACTORY-BUILT WATER HEATING GASIFICATION APPLIANCES

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The Standards Council of Canada is located at:

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Guide for the Investigation of Factory Built Water Heating Gasification Appliances

ICS 27.060.10; 27.060.20

Prepared and Published by:



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FOREWORD

Certification organizations are periodically requested to promptly provide certification services for devices, constructions, materials and systems where Canadian recognized Standards do not currently exist or are not entirely applicable. Accordingly, the certification organization utilizes its experience, existing specifications and requirements in related areas, together with assistance from its advisory councils to develop and prepare Other Recognized Documents (ORDs) for use in conducting the necessary tests and evaluation investigation.

Underwriters Laboratories of Canada has prepared many ORDs in response to requests from, and in conjunction with, industry, code writing bodies, regulatory agencies and others prior to promulgating a certification program. In many instances such documents have become published ULC Standards and subsequently National Standards of Canada. It is the intention of Underwriters Laboratories of Canada to continue this practice, as appropriate.

Comments on the content of this ORD should be directed to the Head Office of Underwriters Laboratories of Canada, 7 Underwriters Road, Toronto, Ontario, Canada, M1R 3A9.

NOTE: These Other Recognized Documents are accepted under the National Standards System of Canada. Reference may be made to the Document "Guidelines for the Development and Maintenance of Other Recognized Documents (ORDs)", published by the Standards Council of Canada located at 55 Metcalfe Street, Suite 600, Ottawa, Ontario, Canada, K1P 6L5.

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PREFACE

This is the First Edition of the Other Recognized Document Guide for the Investigation of Factory Built Water Heating Gasification Appliances.

Only metric SI units of measurement are used in this ORD. If a value for measurement is followed by a value in other units in parentheses, the second value may be approximate. The first stated value is the requirement.

In Canada, there are two official languages, English and French. All safety warnings must be in French and English. Attention is drawn to the possibility that some Canadian authorities may require additional markings and/or installation instructions to be in both official languages.

Attention is drawn to the possibility that some of the elements of this ORD may be the subject of patent rights. Neither Underwriters Laboratories of Canada, nor ULC Standards, shall be held responsible for identifying any or all such patent rights.

Requests for interpretation of this ORD should be sent to the ULC Mark Program Owner of Underwriters Laboratories of Canada. The requests should be worded in such a manner as to permit a “yes” or “no” answer based on the literal text of the requirement concerned.

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This ORD is intended to be used for conformity assessment.

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1 SCOPE

1.1 These requirements cover factory-built gasification appliances which incorporate a gasification system to produce hot water for residential, commercial or industrial applications. The gas generated by this process will be combusted internal to the appliance. Burners are required to be equipped with integral automatic primary safety controls to restrict the abnormal flow of gaseous fuel in case of ignition failure and/or flame failure on startup.

1.2 These requirements cover modules and systems with a maximum supply voltage of 600 V or less.

1.3 These requirements do not cover products which will supply a gas to a distribution system.

1.4 These appliances are intended to be installed in accordance with CSA B149.1 Natural Gas and Propane Installation Code and CSA B139 Installation code for oil-burning equipment.

2 REFERENCE PUBLICATIONS

The documents shown below are referenced in the text of this ULC Other Recognized Document (ORD). Unless otherwise stated elsewhere in this ORD, such reference shall be considered to indicate the edition and/or revisions of the documents available at the date on which this ULC ORD is published.

Documents Published by the American National Standards Institute
25 West 43rd Street, 4th floor New York, NY 10036 U.S.A
Telephone: (212) 642-4900
webstore.ansi.org/

• ANSI/ISA MC96.1-1982, Temperature Measurement Thermocouples

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Documents Published by the American Society for Testing and Materials (ASTM International)
100 Barr Harbour Drive, PO Box C700, West Conshohocken, PA 19428-2959 U.S.A.
Telephone: (610) 832-9585
www.astm.org

• ASTM A90/A90M-95, Standard Test Method for Weight [Mass] of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings

• ASTM A653/A653M-00, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process

• ASTM B117-94 , Method for Salt Spray (Fog) Testing

Documents Published by CSA Group
178 Rexdale Boulevard, Toronto, Ontario M9W 1R3 Canada
Telephone: (416) 747-4000 or 1-800-463-6727
www.csagroup.org

• CSA C22.1-18, Safety Standard for Electrical Installations, Canadian Electrical Code, Part I

• CSA C22.2 No. 0.15-15, Adhesive Labels

• CSA C22.2 No. 0.17-09, Evaluation of Properties of Polymeric Materials

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