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Residential Controls - Hot Water Immersion Controls



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CONTROLS

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Residential Controls – Hot-water Immersion Controls

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Foreword

This Standards Publication has been developed in the public interest and is designed to promote a better understanding between the manufacturer and the user and to assist the user in selecting and obtaining the proper hot-water immersion control for their particular need.

These standards are periodically reviewed by the Residential Controls Section of NEMA for any revisions necessary-to keep them up-to-date with advancing technology. Proposed or recommended revisions should be submitted to:

Vice President, Engineering Department
National Electrical Manufacturers Association
1300 North 17th Street
Rosslyn, Virginia 22209

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This Standards Publication was developed by the Residential Controls Section. Section approval of the standard does not necessarily imply that all section members voted for its approval or participated in its development. At the time it was approved, the group was composed of the following members:

Apcom Inc.—Franklin, TN
Emerson Electric Company, White-Rodgers Division—St. Louis, MO
First Technology—Standish, ME
GE Industrial Systems—Morrison, IL
Honeywell, Inc.—Golden Valley, MN
Johnson Controls, Inc.—Milwaukee, WI
Texas Instruments, Inc.—Attleboro, MA
Therm-O-Disc—Mansfield, OH

Section 1 GENERAL

1.1 SCOPE

This Standards Publication covers the operating range, differential, electrical ratings, and dimensions of electric-switch-type hot-water immersion controls intended primarily for application to hot-water boilers and heaters used in residential heating systems.

1.2 REFERENCES

In this publication, reference is made to the standards listed below. Copies are available from the indicated sources.

1.2.1 Normative References

The following normative documents contain provisions, which through reference in this text, constitute provisions of this Standards Publication. By reference herein these publications are adopted, in whole or in part as indicated, in this SP.

American National Standards Institute (ANSI)

11 West 42nd Street
New York, NY 10036

ANSI/UL 353-1994
ANSI/UL 873-1994

Limit Controls
Temperature-Indicating and -Regulating Equipment

National Electrical Manufacturers Association

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Suite 1847
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DC 3-1989 (R1996)

Wall Mounted Room Thermostats

1.3 DEFINITIONS

control, circulator: A control which is intended to prevent the circulation of water when the water is below a minimum temperature.

control, combination: A control which combines one or more of the functions of low-limit, high-limit, and circulator controls with other control functions.

control, dual: A control having two switching functions and combining any two of the following controls: low-limit, high-limit, and circulator.

A dual control shall be permitted to have a single temperature sensor.

control, high-limit: A control which is intended to prevent the water from exceeding a predetermined temperature.