



*ABYC A-6 July 2013
Reaffirmed July 2018*

**Equipment Division Standard
Thermal Appliance Project Technical
Committee**

The ABYC Standards and Technical Information Reports for Small Craft are the product of a consensus of representatives of government, industry and public sectors. It is intended solely as a guide to aid manufacturers and the marine community in the design, construction, equipage and maintenance of small craft.

ABYC reviews each standard at least every five years at which time it may be reaffirmed, revised, or withdrawn. ABYC welcomes any written comments on the standards and Technical information reports.

ABYC A-6

REFRIGERATION AND AIR CONDITIONING EQUIPMENT



A-6
7/13
Reaffirmed 7/18

THERMAL APPLIANCE PROJECT TECHNICAL COMMITTEE

Robert Newsome, Chair
Frederick Berry, Vice Chair

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Charles Fort

Thomas Schultz

This list represents the membership at the time the Committee was balloted.

NOTE: Membership on a committee shall not in and of itself constitute an endorsement of ABYC or any document developed by the committee on which the member serves.

This standard was developed under procedures accredited as meeting the criteria for American National Standards. The Project Technical Committee that approved the Standard was balanced to ensure that individuals from competent and concerned interests have had an opportunity to participate.

This standard, which is the result of extended and careful consideration of available knowledge and experience on the subject, is intended to provide minimum performance requirements.

ABYC's Project Technical Committee meetings are open to the public. All contact regarding standards activity, interpretations, or meeting attendance should be directed to the ABYC Technical Department at comments@abycinc.org.

ABYC and its committees do not "approve", "certify", or "endorse" any item, construction, or proprietary device.

REQUEST FOR INTERPRETATIONS

Upon written request, the Thermal Appliance PTC will render an interpretation of any requirement of the Standard. The request for interpretation should be clear and unambiguous. Requests should be presented to the PTC in a manner in which they may be answered in a yes or no fashion.

The Committee reserves the right to reconsider any interpretation when or if additional information which might affect it becomes available to the PTC. Persons aggrieved by an interpretation may appeal to the Committee for reinterpretation.

A-6 REFRIGERATION AND AIR CONDITIONING EQUIPMENT

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A-6 REFRIGERATION AND AIR CONDITIONING EQUIPMENT

Based on ABYC's assessment of the existing technology, and the problems associated with achieving the goals of this standard, ABYC recommends compliance with this standard for all boats, associated equipment, and systems manufactured after July 31, 2014.

6.1 PURPOSE

These standards are guides for the design, construction, and installation of refrigeration and air conditioning systems on boats.

6.2 SCOPE

These standards apply to systems utilizing mechanical gas compression for comfort cooling, heating, dehumidification and refrigerated food storage on boats.

EXCEPTION: LPG fueled refrigeration and air conditioning equipment (see [ABYC A-26, LPG and CNG Fueled Appliances](#)).

6.3 REFERENCES

The following references form a part of this standard. Unless otherwise noted the latest version of referenced standards shall apply.

6.3.1 ABYC - American Boat & Yacht Council, Inc, 613 Third Street, Suite 10, Annapolis, MD 21403. Phone: 410-990-4460. Fax: 410-990-4466. Website: www.abycinc.org

[ABYC A-26, LPG and CNG Fueled Appliances](#)
[ABYC E-11, AC and DC Electrical Systems on Boats](#)
[ABYC H-2, Ventilation of Boats Using Gasoline](#)
[ABYC H-27, Seacocks, Thru-Hull Fittings, and Drain Plugs](#)
[ABYC P-4, Marine Inboard Engines and Transmissions](#)
[ABYC T-5, Safety Signs and Labels](#)

6.3.2 ANSI - American National Standards Institute, 1430 Broadway, New York, NY 10018. Phone: (212) 354-3300. Website: www.ansi.org

6.3.3 ASHRAE - American Society of Heating and Air-conditioning Engineers, 1791 Tullie Circle NE, Atlanta, GA 30329. Phone: (404) 636-8400. Website: www.ashrae.org

6.3.4 CFR - Code of Federal Regulations - Obtain the Code of Federal Regulations and other government publications from the Superintendent of Documents, United States Government Information, PO Box 371954, Pittsburgh, PA 15250-7954. Phone: (202) 512-1800. Fax: 202-512-2250. An excerpted edition of the CFR is available from ABYC, Inc.

33 CFR 183.410

6.3.5 UL - Underwriters Laboratories Marine Department, PO Box 13995, 12 Laboratory Drive, Research Triangle Park, NC 27709. Phone: (919) 549-1400. Website: www.ul.com

ANSI/UL 94, *Test for Flammability of Plastic Materials for Parts in Devices and Appliances*
UL 181, *Factory Made Air Ducts and Air Connectors*
UL 1995, *Heating and Cooling Equipment*

6.4 DEFINITIONS

For the purposes of this standard, the following definitions apply.

6.4.1 Communicate - to have or form a connecting passage.

6.4.2 Engine Room - any compartment housing an internal combustion engine.