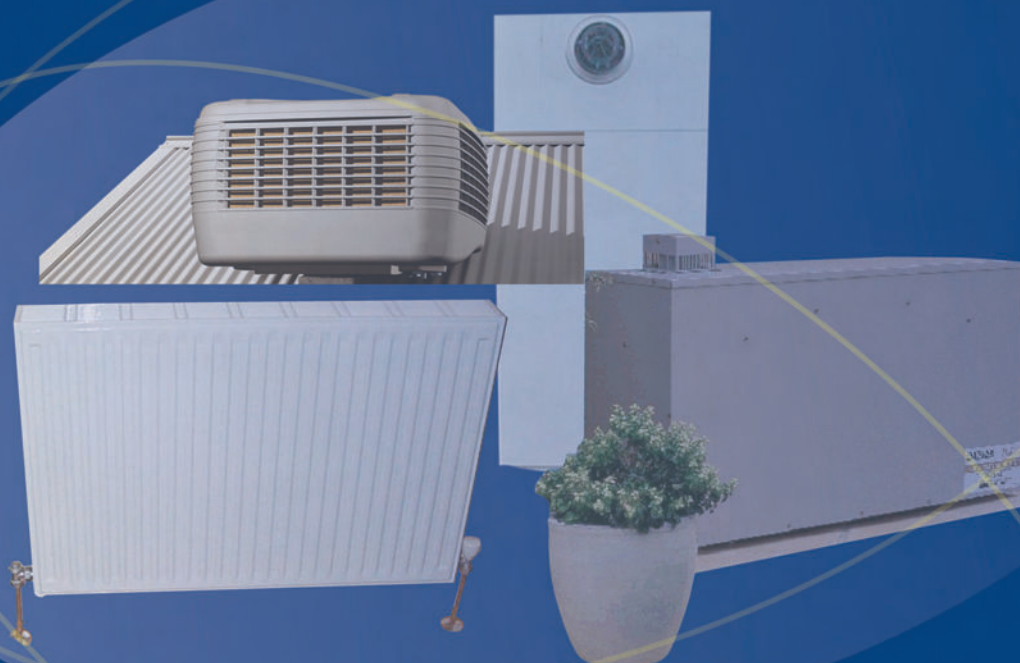


HB 276—2004
Reconfirmed 2016



PLUMBING
INDUSTRY
COMMISSION



A Guide to Good Practice

for ***Energy Efficient Installation*** of
**Residential
Heating, Cooling & Air Conditioning
Plant & Equipment**

STANDARDS AUSTRALIA

RECONFIRMATION

OF

HB 276—2004

**A Guide to Good Practice for Energy Efficient Installation of Residential Heating,
Cooling and Air Conditioning Plant and Equipment**

RECONFIRMATION NOTICE

Technical Committee ME-062 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 13 October 2015.

The following are represented on Technical Committee ME-062:

Air Conditioning & Mechanical Contractors Association
Australasian Fire and Emergency Service Authorities Council
Australian Building Codes Board
Australian Industry Group
Australian Institute of Refrigeration Air Conditioning and Heating
Chartered Institution of Building Services Engineers
Climate Control Companies Association
Consumer Electronics Suppliers Association
Department of Health and Human Services (TAS)
Engineers Australia
Facility Management Association of Australia
Institute of Refrigeration Heating & AirConditioning Engineers of New Zealand
NATSPEC
The Insulation Contractors Association of Australia NSW
Victorian Building Authority

NOTES

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Plant & Equipment



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This Handbook is not an Australian Standard and has not been developed and approved using the full transparency and consensus processes that underpin Australian Standards.

As a Handbook it has, however, been subject to a level of peer review.

For further advice on the status of this document see Standardization Guide 13, Publication of lower level of Transparency and Consensus, which is available at the following web address:

<https://committees.standards.com.au/POLICY/SG-013/STANDARDIZATIONGUIDE-SG-013.HTM>

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1 FOREWORD

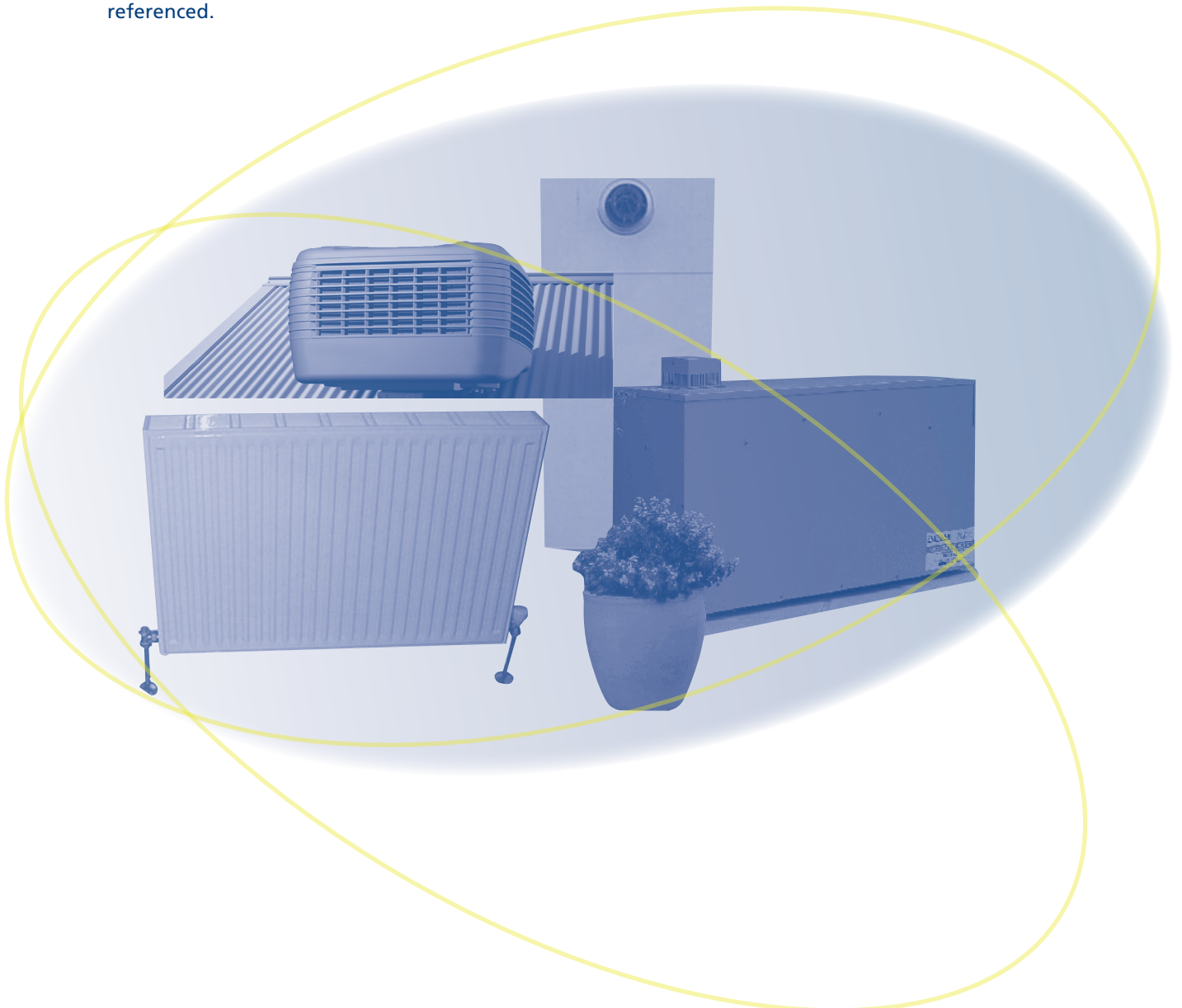
1.1 OBJECTIVE OF THE GUIDE

To enable all the correct requirements to be considered for the installation of heating, cooling and air conditioning systems in residential and domestic type dwellings.

1.2 SCOPE

The following defines the scope of this publication:

- The Guide will cover Class 1, 2, 3 and 4 buildings, as defined by the Building Code of Australia (BCA)
- The duty of care of the building owner will not be part of this Guide
- Insurance cover will be covered elsewhere
- The terminology will reflect the common industry terms for this level of operation
- The energy efficiency provisions of the Building Commission will be considered and, if required, referenced.



2 ACKNOWLEDGEMENTS

2.1 INDUSTRY PUBLICATIONS & HANDBOOKS

Australian Institute of Refrigeration, Air Conditioning and Heating – Application Manuals

Australian Gas Association AG 706-1980 Design Manual For Indirect Gas Fired Ducted Warm Air Central Heating Systems

ASHRAE Handbooks

Carrier Design Manual

Better Heating and Cooling Bureau, South Australia

RMIT TAFE Trade Manuals

Holmesglen TAFE Trade Manuals

Heating and Ventilating Contractors Association – Guide to Good Practice

Plumbing Industry Commission – A Code of Good Practice for Servicing, Maintenance and Recommissioning

HVAC Innovations Software

Heating and Cooling Association of Australia

McDermott Consulting Group – Anthony McDermott

AS 1324

Air filters for use in air conditioning and general ventilation

AS 1668.1 & 2

The use of mechanical ventilation and air conditioning in buildings

AS 2913

Evaporative air conditioning equipment

AS 3500

National Plumbing and Drainage Code

AS3666

Air-handling and water systems of buildings Parts 1, 2 and 3

AS 4254

Ductwork for air handling systems in buildings

AS 4426

Thermal insulation of pipework, ductwork and equipment

AS 4508

Thermal resistance of insulation for ductwork used in building air conditioning

HB 39 - 1997

Code of Common Practice for Steel Roofing

HB 40.2 – 2001

The Australian Refrigeration and Air Conditioning Code of Good Practice – Part 2 Reduction of Emissions of Fluorocarbons in Residential Air Conditioning Applications

2.2 AUSTRALIAN STANDARDS

AS 1132.1 – 9

Methods of test for air filters for use in air conditioning and general ventilation

AS 1323

Glossary of terms for air filters for use in air conditioning and general ventilation

3 GENERAL

3.1 SCOPE

This guide applies to heating, cooling and air conditioning systems installed in all Class 1a, 1b, 2, 3 and 4 buildings as defined in the Building Code of Australia. These classifications include single dwellings and multi-storey residential buildings.

The intended scope of work for this Guide to Good Practice is for all work associated with the design, supply, installation, testing and commissioning of all heating, cooling and air conditioning plant and systems associated with the above residential buildings.

A separate publication 'A Code of Good Practice for the Servicing, Maintenance and Recommissioning of Mechanical Services Plant and Equipment' contains relevant details related to servicing and maintenance of the above.

3.2 DUTY OF CARE – BUILDING OWNER/ OCCUPIER

In legal terms, an occupier of land or buildings owes a duty to take such care, as is reasonable in the circumstances, to see that any person will not be harmed due to the acts done or omitted to be done regarding the state of the land or buildings.

Owners/occupiers must comply with the legislative requirements imposed on them by state and local authorities.

3.3 OBLIGATIONS OF THE INSTALLER

3.3.1 Health & Safety

Employers and employees must comply with the occupational health and safety legislation applicable in each state.