AS 4211.3—1996

Australian Standard®

Gas recovery or combined recovery and recycling equipment

Part 3: Fluorocarbon refrigerants from commercial/domestic refrigeration and airconditioning systems

This Australian Standard was prepared by Committee ME/75, Gas Recovery and Reclaiming Equipment. It was approved on behalf of the Council of Standards Australia on 15 October 1996 and published on 5 December 1996.

The following interests are represented on Committee ME/75:

Air Conditioning and Mechanical Contractors Association of N.S.W.

Airconditioning and Refrigeration Equipment Manufacturers Association of Australia

Appliance Industry Association

Association of Fluorocarbon Consumers and Manufacturers

Australian Automotive Aftermarket Association

Australian Chamber of Manufactures

Australian Industrial Gas Manufacturers Association

Australian Institute of Refrigeration, Air Conditioning and Heating

Commercial Refrigeration Manufacturers Association of Australia

Department of Environment and Natural Resources, S.A.

Department of Fair Trading, N.S.W.

Environment Protection Authority of N.S.W.

Fire Protection Industry Association of Australia

Metal Trades Industry Association of Australia

Motor Trades Association of Australia

Motor Vehicle Repair Industry Council

New South Wales TAFE Commission

Review of Australian Standards. To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, you define a members to and of withdraws Standard's

new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

AS 4211.3—1996

Australian Standard®

Gas recovery or combined recovery and recycling equipment

Part 3: Fluorocarbon refrigerants from commercial/domestic refrigeration and airconditioning systems

AS 4211.3 — 1996

2

PREFACE

This Standard was prepared by the Standards Australia Committee ME/75 on Gas Recovery and Reclaiming Equipment.

In view of concern about the effect that chlorofluorocarbons (CFCs) and halons, used in refrigeration, airconditioning and firefighting equipment have on the stratospheric ozone layer it has become mandatory to recover these ozone depleting substances rather than vent them to atmosphere during servicing of equipment.

Recycling the refrigerant to remove contaminants will assure that system operation with recycled refrigerant will provide the same level of performance as those systems using new refrigerant.

This Standard is Part 3 in a series of Standards which provide minimum equipment requirements for recovery or combined recovery and recycling equipment. The objective of this Part is to provide manufacturers of recovery or combined recovery and recycling equipment to be used on commercial and domestic systems with minimum equipment requirements. Test methods to determine equipment performance are also included. Other Parts are specific to other industries such as automotive, or fire protection.

It is recommended that synthetic substances used as alternatives to CFCs and halons, including HCFCs and HFCs, should be recovered, or recovered and recycled.

In preparing this Standard, cognizance was taken of ISO Committee Draft, ISO/DIS 11650, Performance of Refrigerant Recovery and/or Recycling Equipment and AS 4211.1(Int)—1994: Gas recovery or combined recovery and recycling equipment Part 1: Automotive air-conditioning systems.

The term 'informative' has been used in this Standard to define the application of the appendix to which it applies. An 'informative' appendix is only for information and guidance.

© Copyright - STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

AS 4211.3 — 1996

CONTENTS

3

		Page
FORE	WORD	. 4
SECTI	ION 1 SCOPE AND GENERAL	
1.1	SCOPE	. 5
1.2	APPLICATION	. 5
1.3	REFERENCED DOCUMENTS	. 5
1.4	DEFINITIONS	. 6
SECTI	ION 2 GENERAL REQUIREMENTS	
2.1	GENERAL EQUIPMENT REQUIREMENTS	7
2.2	SAFETY REQUIREMENTS	. 7
2.3	OPERATING INSTRUCTIONS	. 7
2.4	FUNCTIONAL DESCRIPTION	8
2.5	OPERATION CAPABILITY	9
2.6	COMPRESSOR OIL LEVEL	9
2.7	LABELLING REQUIREMENTS	9
2.8	EQUIPMENT LABELLING OR INSTRUCTION MANUAL	9
SECTI	ION 3 PERFORMANCE TESTING	
3.1	STANDARD CONTAMINATED REFRIGERANT SAMPLE	10
3.2	TEST APPARATUS	
3.3	PERFORMANCE TESTS	10
3.4	SAMPLING PROCEDURES	13
3.5	CHEMICAL ANALYSIS METHODS	14
3.6	PERFORMANCE CALCULATION AND RATING	15
APPE	NDICES	
A	DOMESTIC REFRIGERATION—REFRIGERANT COLLECTION BAG	17
В	PARTICULATE USED IN STANDARD CONTAMINATED	
	REFRIGERANT SAMPLE	19
C	DETERMINATION OF ACIDITY IN FLUOROCARBONS	20



	This is a free preview.	Purchase the e	entire publication	at the link below:
--	-------------------------	----------------	--------------------	--------------------

Product Page

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation