

HDRAWN

Sup.

This is a free page sample. Access the full version online.

Superseded by AS 2120.1-1992

Superseded by AS 2120.2-1992

Superseded by AS 2120.3-1992

AS 2120 — 1977

UDC 615.478.76

Australian Standard 2120-1977

SUCTION SYSTEMS FOR MEDICAL USE IN HOSPITALS



STANDARDS ASSOCIATION OF AUSTRALIA

Incorporated by Royal Charter



THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Associated Chambers of Manufactures of Australia
Association of Consulting Engineers of Australia
Australian Society of Anaesthetists
Department of Construction
Departments of Health
Hospitals and hospital associations
Institute of Hospital Engineers
Metal Trades Industry Association of Australia
Royal Australasian College of Surgeons
State Departments of Public Works and Public Buildings

This standard, prepared by Committee MD/4, Medical Gases and Pipeline Services, was approved on behalf of the Council of the Standards Association of Australia on 24 October 1977, and was published on 31 December 1977.

To keep abreast of progress in industry, Australian standards are regularly reviewed. Suggestions for improvements to published standards, addressed to the head office of the Association, are welcomed.

This standard was issued in draft form for public review as DR 74142.

AUSTRALIAN STANDARD

RULES FOR
SUCTION SYSTEMS FOR
MEDICAL USE IN HOSPITALS

AS 2120 — 1977

First published 1977

PUBLISHED BY THE STANDARDS ASSOCIATION OF AUSTRALIA
STANDARDS HOUSE, 80 ARTHUR STREET, NORTH SYDNEY, N.S.W.



ISBN 0 7262 1372 1

PREFACE

This standard was prepared by the Association's Committee on Medical Gases and Pipeline Services, under the authority of the Medical Materials and Equipment Standards Committee.

In the preparation of this standard, the committee took account of BS 4957, Medical Vacuum Pipeline Services for Use in Hospitals. The British standard specifies that each suction service point should be capable of permitting a free air flow of not less than 40 l/min when the ambient pressure is reduced to a gauge pressure of -53 kPa. The draft on which BS 4957 was based required a gauge pressure of -67 kPa. The committee responsible for the preparation of this standard decided on -60 kPa gauge pressure at the inlet to the suction service point as a reasonable compromise, which would be suitable for both compressed gas venturi ejector suction and pipeline suction.

This standard makes reference to the following standards:

- AS 1169 SAA Medical Agents and Gases Safety Code
- AS 1324 Air Filters for Use in Air Conditioning and General Ventilation
- AS 1345 Identification of Piping, Conduits and Ducts
- AS 1349 Bourdon Tube Pressure and Vacuum Gauges
- AS 1432 Copper Tubes for Water, Gas and Sanitation
- AS 3000 SAA Wiring Rules
- AS K185 Colours for Specific Purposes
- AS Z9 Barometer Conventions and Tables
- BS 2050 Electrical Resistance of Conductive and Anti-static Products made from Flexible Polymeric Material
- BS 2775 Rubber Stoppers and Tubing of Flexible Materials for Laboratory Use

© Copyright — STANDARDS ASSOCIATION OF AUSTRALIA 1977

Users of standards are reminded that copyright subsists in all SAA publications. No part of this publication may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing of the Standards Association of Australia.

CONTENTS

	<i>Page</i>
FOREWORD	5
SECTION 1. SCOPE AND APPLICATION	
1.1 Scope	6
1.2 Application	6
SECTION 2. HOSPITAL PIPELINE SUCTION SYSTEMS	
2.1 Suction Service Points	7
2.2 Performance	7
2.3 Suction Pipelines	7
2.4 Isolating Valves	12
2.5 Drainage Traps	13
2.6 Suction Pumps	13
2.7 Vacuum Reservoir Tanks	14
2.8 Electrical Requirements	14
2.9 Pump House	14
2.10 Bacterial Filters	15
2.11 Pump Exhaust	15
2.12 Emergency Power	16
2.13 Precautions Against Fire, Explosion and Electrical Hazards	16
2.14 Alarm System	17
2.15 Pipeline Diagrams	17
2.16 Servicing	17
2.17 Commissioning Procedure	17
2.18 Marking of Pump House Equipment	18
SECTION 3. SUCTION SYSTEM USER ATTACHMENTS FOR HIGH AND LOW SUCTION	
3.1 Suction Jars	19
3.2 Prevention of Overfilling of Suction Jars	19
3.3 Suction Tubing	19
3.4 Antistatic Requirements for Flexible Polymeric Materials	20
3.5 Suction Control Devices	20
SECTION 4. INTERCONNECTION OF USER ATTACHMENTS FOR SUCTION CONTROL	
4.1 Arrangement for Control of High or Low Level Suction	23
4.2 Performance Test for User Attachments Arranged for High Suction Control	23
4.3 Performance Test for User Attachments Arranged for Low Suction Control (Continuous Drainage)	23
4.4 Marking of Suction Control Devices	24

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

[Product Page](#)

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