

BRA - (British Refrigeration Association)

Model statements of task procedure and risk assessment for commercial refrigeration

Every commercial refrigeration company should avail itself of aid from BRA by buying its own copy of BRA's new 'Model Statements of Task procedure & Risk Assessment' (ISBN 1 870623 06 1).

The model statements will not only save them work, but will also help them to observe their moral obligations and to comply with their legal requirements.

Ever since the Management of Health & Safety at Work Regulations 1992 came into force on 1 January 1993, all companies have statutory duties to assess risks, which arise from tasks their employees carry out.

Instead of every company having to spend time reviewing, recording and assessing the same procedures and attendant risks, BRA members have developed 'model statements', which any company can adopt or adapt as appropriate to its circumstances.

1994 £75 (£50)

'Unseen Giant' Video (promoting the industry and careers in it)

BRA's video highlights the refrigeration industry's important role in supporting and servicing "the unseen giant", refrigeration.

Refrigeration is "the unsung hero" working continuously on everyone's behalf to provide all society's essential cooling and freezing services.

One of the video's primary aims is to obtain recognition of the importance of refrigeration's contribution to modern society.

A second objective is to interest the next generation in refrigeration engineering and to encourage youngsters, their teachers, parent and others to recognise it as a challenging and exciting industry with worthwhile career opportunities.

1994 £23.50

'Benchmark' Conditions of Employment (for personnel installing, commissioning, servicing or maintaining refrigeration and air conditioning systems and/or equipment

Trading patterns for customers of refrigeration and air conditioning engineers have changed dramatically. Recognising this as a reality, BRA Commercial Contractors Section has developed its new 'benchmark' conditions of employment for personnel installing, commissioning, servicing or maintaining refrigeration or air conditioning systems and/or equipment (ISBN 1 870623 08 8) to take account of these changes.

£7.50 (£5)

Jointing of Copper Pipework for Refrigeration Systems - Issue 1

The integrity of brazed joints is fundamental to the operational efficiency of refrigeration and air conditioning systems, as well as to the environment. BRA Commercial Contractors Section has developed a new specification for the jointing of copper pipework for refrigeration systems (ISBN 1 870623 09 6). This incorporates a simple means of assessing an individual's competence to braze refrigeration pipework to standards acceptable, not only to the industry, but also to the many end-user customers of its equipment of its systems and of its essential cooling and freezing services.

£22.50 (£15)

Guideline Methods of Calculating TEWI - Issue 1

For many refrigeration and air conditioning systems, climate change impact is best measured by "TEWI" (Total Equivalent Warming Impact), as is fully explained in this publication. Standardised methods of calculating TEWI are presented.

£22.50

HEVAC - (Heating, Ventilating, Air Conditioning Manufacturers' Association)

Air Diffusion Guide – 2nd edition

This booklet is intended as a guide to the user or the contractor who installs air diffusion equipment and is complementary to B.S. No. 4773, Parts I and II and ISO/DIS 5135, 5219 and 5221. Used early in the design stage, it will assist both designers and contractors to obtain a satisfactory air diffusion system.

£15.00

Guide to Good Practice: Air Handling Units

Air handling units vary greatly in size, function and complexity. Whether they be small or large, simple or complex, there are certain points to observe and pitfalls to avoid. It is the aim of this publication to guide the reader towards good practice, so that when the unit is installed it will perform in accordance with expectations.

The components most commonly utilised within air handling units are dealt with individually and for each heading there has been gathered a list of 'do's and don'ts' distilled from many years of experience. Fans though are not covered specifically since there is a separate HEVAC 'Fan Application Guide' which should be referred to.

With such an immense variety within the scope of air handling units the topics covered cannot be completely comprehensive, however, the major and most important aspects are fully covered.

1991 £15.00

Air Handling Unit Leakage Testing

This document will specifically cover the factory air leakage testing of monobloc or modular design air handling units.

All units are deemed to be working under negative pressure for the purposes of testing. Single and double skinned units shall be treated in exactly the same manner.

£5.00

Real Room Acoustic Test Procedure

Acoustic testing has always been associated with comparatively expensive and certainly specialised facilities often involving large test rooms. In contrast to this, the standard, high quality sound level meter, which is readily available, is now reliable and inexpensive. At the same time many people use these instruments in standard everyday situations to yield relevant real-life information, usually presented in sound pressure levels measured in decibels – dB.

The HEVAC Association Acoustics Group realised a need for some form of standardisation for this real-life situation and created a completely original standard test procedure, yet at the same time kept economy in mind. The procedure had to have credibility and produce useful data. To this end, the document is written completely around sound pressure level measurements in contrast to specialised test laboratories' reference to sound power levels. However, the procedure retains a measure of noise directivity information and simulates an average furnished environment. To aid laboratory repeatability the real room is specified in size and acoustic environment.

The document will be of significant interest to consultants and specifiers as the results will be immediately applicable for their real-life situations. Quality assurance is one area where the procedure can be utilised for low cost product assessment.

Initially only twelve product groups and corresponding appendices are included, but more could be developed.

£25.00

Specification for the certification of air filters used in air conditioning and general ventilation

This specification has been prepared by the Air Filter Group of the HEVAC Association, for adoption by BSI as a National standard and subsequently the development of a Kitemark Scheme for air filters.

The reason behind the introduction of this certification scheme is the growing concern of filter manufacturers at the increasing number of companies becoming involved in this market. It is envisaged the scheme will provide the purchaser/end user with a level of confidence in the product that they are being supplied.

The specification set out the parameters for the testing of general purpose air filters, including testing to either BS6540 : Part 1 or BS3928 whichever is appropriate.

Both aforementioned standards directly align with current European practices within EUROVENT Standard 4/4 and 4/5, respectively, and for this reason the Grading Plan used in conjunction with both EUROVENT Standards is included in the document as Annex 1.

1988 £15.00

Laboratory testing and rating of weather louvres when subjected to simulated rain

- 5th edition

This Standard specifies a method for measuring the water rejection performance of louvres subject to simulated rain and wind pressures both with and without airflow through the louvre under test. For the purpose of this test, a 1000mm x 1000mm section of weather louvre or the nearest possible blade increment, is to be tested.

1997 £15.00

Test Procedure for Acoustic Louvres - Issue 1

The purpose of this Test Procedure is to provide a method for the measurement of the static insertion loss of an acoustic louvre.

The usual design velocities for wall mounted louvres are such that the flow noise generated by the louvre is normally insignificant. Flow noise is not therefore covered in this document. However, wherever it is of interest, reference should be made to BS 4773.

1991 £15.00

Specification for the Determination of the Collection Efficiency of Sand Trap Louvres – 1st edition.

Sand trap louvres are air terminal devices for use in desert like conditions (such as areas where airborne sand prevails) to alleviate the load on the main filtration stage of air conditioning and similar systems.

The scope of this document is to establish a comparison test procedure to obtain repeatable results and which relates sand collection efficiency to the air flow rate through the sand trap

louvre. For the purpose of this test a sand trap louvre with a duct aperture of 1 m x 1 m is to be used.

1993 £15.00

Specification for Floor Grilles - Types, Performance and Method of Testing

There are many types of floor grille, domestic, industrial, computer room units, used for both supply and extraction of conditioned air to a space. It is both practical and important to understand the different types of units available and be able to compare each unit under standard test conditions for both strength and aerodynamic performance. This technical specification sets out commercially available units with a method of classification for each particular type.

1992 £15.00

Domestic Mechanical Ventilation Systems with Heat Recovery

The specification applies to continuous ventilation systems with heat recovery (MVHR) which are designed for use in individual dwellings. It prescribes methods for testing sensible and total thermal effectiveness, the air movement capabilities and the leakage of air between airstreams for MVHR.

1995 £15.00

HEVAC Guide to Filtration - A Training Manual

This manual has been prepared especially for use by heating, ventilation and air conditioning engineers and specifiers as a valuable source of reference. It contains in-depth information on aspects of air filtration, which we are sure will be of benefit to all who will use it. A knowledge of the current filter test methods and standards covering air filtration for general ventilation and air conditioning is necessary when comparing and selecting products being offered by filter manufacturers.

1997 £15.00

Fan Application Guide - 2nd Edition

This booklet is produced not so much for the fan engineers as for the engineer using fans. The authors are all engineers of great experience in the fan industry and the contents cover the basic knowledge required, together with the pitfalls to avoid – both on the drawing board and on site – for an installation to do that for which it was designed. The contents are by no means exhaustive and it is strongly recommended that potential users with any application problems consult the fan manufacturers before finalising the design.

£15.00

Fan and Ductwork Installation Guide – 1st edition

Good practice in terms of the ductwork components installed adjacent to a fan, is the starting point for providing an efficient and reliable air distribution system. The information summarised in this publication will be of particular benefit to air system designers, equipment specifiers and building services contractors. Additionally, fan manufacturers will be better placed to advise on the fan installation and the connecting duct system. The publication provides the air movement industry with a significant increase in the available knowledge on the effects of ductwork components fitted close to a fan. Furthermore, it is based on a very thorough test and analysis programme covering many different types of duct fittings and all the fan types commonly used in clean air applications.

£15.00

Guide to Fan Noise and Vibration

Whenever an air conditioning or ventilation system proves to be too noisy the immediate and instinctive reaction of the engineer,

contractor and client is to blame the fan. This may well be understandable – but is it fair?

This booklet, apart from the first introductory chapter which is taken from the Appendix of the successful HEVAC Fan Application Guide, confines itself to the acoustic and vibration characteristics of the fan itself – the starting points for meaningful systems analyses.

July 1984 £15.00

Proceedings from the FMA training days

- No 1 Fundamentals of fans and air movement *Nov 1996*
- No 2 Fundamentals of air flow measurement *Dec 1996*
- No 3 Fundamentals of noise measurement *March 1997*
- No 4 Fundamentals of electrics, motors and controls for fans *July 1997*
- No 5 Understanding fans – flow, noise and installation (part 1) *Dec 1997*
- No 6 Understanding fans – flow, noise and installation (part 2) *March 1998*

£15 each (set of 6 for £70)

Specification for an installation frame for fire dampers (ref: HVC6/5/83)

This specification describes an installation frame for fire dampers complying with the requirements of the Greater London Council.

The installation frame is designed to be factory assembled on to a fire damper. This frame will, under fire conditions, allow the damper to expand without distortion. Upstand flange webs with fixing tabs built into the surrounding structure ensure that the complete assembly will be retained within the structural opening.
1983 £10.00

Method of test for offshore fire and gas dampers – Issue 3 (provisional)

This draft test standard has been prepared by the HEVAC Offshore Fire Damper Group.

Preparation of this standard was necessary because of the lack of standards for the performance testing of fire and gas dampers for offshore use. The test standard has been devised with due consideration of the perceived hazards on off-shore installations and takes account of PFEER and UKOOA Fire and Explosion Hazard Management Guide. The standard is devised to provide the designer with a degree of flexibility in selecting appropriate equipment with proven performance.

This standard should be read in conjunction with ISO 834 Fire resistance tests – Elements of building construction.

Oct 1995 £15.00

Indoor Air Quality Initiative leaflets

Introductory leaflet – the IAQ initiative

- IAQ 1 Productivity in the workplace
 - IAQ 2 Health and the indoor environment
 - IAQ 3 Asthma
 - IAQ 4 Global warming and energy efficiency
- 1997 £3.50 for quantities of 10 of the leaflets (the introductory one is free issue)

HEVAC - SVA - (Smoke Ventilation Association)

Specification of Requirements for Natural Smoke and Heat Exhaust Ventilators

Part 1 Heat and Coefficient of Performance Testing

This standard specifies the constructional, and heat performance requirements for Natural Smoke and Heat Exhaust Ventilators that are intended to be installed in buildings to release the products of combustion in the event of fire.

1989 £15.00

Part 2 Climatic Testing

This standard specifies climatic performance requirements for Natural Smoke and Heat Exhaust Ventilators that are intended to be installed in buildings to release the products of combustion in the event of a fire.

1989 £15.00

Specification for powered smoke and heat exhaust ventilators – Issue 1

This draft Standard defines the Classification and Methods of Test for powered ventilators designed to remove heat and smoke from buildings in the event of fire.

It is primarily concerned with the duration of ventilator performance at elevated temperature. For other aspects of performance – aerodynamic and acoustic – reference is made to existing standards where appropriate.

1989 £15.00

Specification of requirements for smoke curtains

In recent years the use of smoke curtains, to restrict the lateral spread of smoke and hot gases along the underside of a roof, ceiling or balcony within a building in the event of fire, has become widely used. These smoke curtains are employed as part of a smoke control system, to create ceiling reservoirs from which smoke and hot gases can be extracted, or to stop smoke spread.

This standard specifies performance requirements for smoke curtains, automatic smoke channelling screens that are intended to be installed in buildings as part of a smoke control system.
£15.00

Guidance for the Design of Smoke Ventilation for Single Storey Industrial Buildings, including those with Mezzanine Floors, and High Racked Storage Warehouses – Issue 4.

The use of smoke and heat exhaust ventilators has become widespread and their value in assisting in the evacuation of people from buildings, reducing fire damage and financial loss by preventing smoke logging, facilitating fire fighting, reducing roof temperatures and retarding the lateral spread of fire is firmly established. Therefore, it is essential that the purpose of the scheme is identified. The Guide sets out the recommendation of the Smoke Ventilation Association for design considerations. Actual methods of calculation are set out in various Fire Research Station (FRS) papers, which are referred to in the text and listed in appendix 2.

This guide covers Single Storey Industrial Buildings such as Factories and Warehouses, including such buildings which contain Mezzanine Floors, and High Racked Storage Warehouses.

1994 £15.00

Guidance for the Design of Smoke Ventilation Systems for Covered and Underground Car Parks - Issue 1

The use of smoke and heat ventilators has become widespread and their value in assisting in the evacuation of people from buildings, reducing fire damage and financial loss by preventing smoke logging, facilitating fire fighting, reducing roof temperatures and retarding the lateral spread of fire, is firmly established. Therefore, it is essential that the purpose of the scheme design is identified.

The members of the Smoke Ventilation Association have had many years of interpreting and applying the various design principles included in the many publications dealing with smoke control. Based on this experience, this Guide sets out their recommendations.

The document's primary purpose is to provide guidance on the design of underground or enclosed car-parking facilities. It should be noted however, that many of the principles embodied within this guide may be applied equally well to above ground, open-sided car parks should be a requirement to do so (e.g. to improve the otherwise haphazard smoke control provisions provided by cross-ventilation).

No scheme will work satisfactorily unless it is correctly designed, installed and maintained.

The Guide covers multi-storey car parks, and is relevant to three distinct applications: -

a) underground; b) above ground; c) adjoining building (offices or shopping centre)

1994 £15.00

Application of Smoke Control Equipment and Systems : Guide to Good Practice – Issue 1.

It is essential for any system designed to provide a means of life safety that it performs to the highest possible standards. Smoke control schemes primarily fulfil the function of a life safety system, and it is therefore imperative that the design of the system takes account of all factors which may affect its efficient performance.

The purpose of this document is to state in simple terms the rationale of a heat and smoke exhaust system, and equipment considerations to ensure the scheme meets its objectives.

1994 £15.00

FETA – (Federation of Environmental Trade Associations)

Guide to Contracts

The Guide was produced to assist members in the consideration of contract conditions offered to them and to assist them in the formulation of their response. Whilst the Guide contains very specific recommendation, as the FETA membership covers a wide number of activities, it is recognised that the recommendations may not be applicable in certain market sectors or areas of activity.

£15.00

The “Host” report – training to the year 2000

Recognising the need for baseline information to inform a sector-wide development programme on skills and skills capacity, FETA commissioned the HOST Consultancy to conduct a sector-wide overview of practices and needs. This report outlines the results of that research. It also provides a review of the implications for any cross-sector development programme and its

focus. The primary focus of the project was to undertake a broadly-based audit of current vocational educational and training (VET) practices, needs and capacity issues.

March 1997 £25.00 (£15.00)

Self Assessment Programme

The Bywater programme for self assessment comprises a pack which includes an introduction; a 3 ½” diskette; facilitator's guide; team members guide and assessment questionnaire and scorecard. The self-assessment is carried out against the criteria deemed most meaningful in determining the strengths and weaknesses of an organisation as it performs today.

The completed assessment should then be returned to Bywater plc (a market leader in the provision of Business improvement services) who will give you a summary report identifying areas for improvement

1996 £30.00

Free issue publications

HEVAC - (Heating, Ventilating, Air Conditioning Manufacturers' Association)

Year Book & Product Directory – Buyers guide – Issue 6

The year book contains brief details of the products and services provided by member companies of the Association. The information is also available on the web site <http://www.feta.co.uk/>

General Specification and Product Directory for Air Distribution Equipment - Issue 2

The Air Distribution Manufacturers' Group of the HEVAC Association was formed by members involved in the manufacture and supply of Air Distribution Equipment.

The equipment offered by these Member firms covers the whole range of Grilles, Diffusers, Air Terminal Devices, Louvres, Terminal Units, Duct Dampers, Smoke/Fire Dampers and Ventilators. The equipment is manufactured to a high standard of quality and design to meet the stringent requirements of the H.V.A.C. Industry.

This publication consists of a “General Specification” and Members “Product Directory” covering the full range of products in some detail. The contents will be of considerable value to those involved with the selection of Air Distribution Equipment.

Introducing the Heating, Ventilating and Air Conditioning Manufacturers Association

This leaflet gives the aims and objectives of the Association. It details the benefits of becoming a member and sets out the reasons why specifiers, buyers, consultants etc should deal with member companies.

Chilled Ceilings Association Leaflet "Care for the Environment - Comfort for all"

Chilled Ceilings and Chilled Beams are increasingly being used to provide comfort cooling in both new and refurbished buildings. Using well proven technology, they are flexible, simple to install and maintain, and can provide an energy efficient, cost effective alternative to traditional cooling systems. This leaflet describes chilled ceilings and beams and lists the companies that can supply them.

Making the most of fan technology with the FMA

Produced by the Fan Manufacturers' Association, this leaflet sets out the benefits that can be gained from dealing with FMA

companies. It also contains a comprehensive listing of the fan products that are available.

Date of Publication: 1998

B.R.A. - (British Refrigeration Association)

Year Book & Product Directory - Buyer's Guide

The year book contains brief details of the products and services provided by member companies of the Association. The information is also available on the web site <http://www.feta.co.uk/>

Introducing the British Refrigeration Association

This leaflet gives the aims and objectives of the Association. It details the benefits of becoming a member and sets out the reasons why specifiers, buyers, consultants etc should deal with member companies.

Also Important - Refrigeration Update - Safeguarding Your Business – Leaflet

BRA “Factfinders”

- 1 Replacement Refrigerants – ASHRAE Designation Codes (10/94)
- 2 New Lubricants for New Refrigerants (10/94)
- 3 Save £££’s and the Environment at the Same Time (04/95)
- 4 Food Safety (Temperature Control) Regulations 1995 (12/95)
- 5 BRA Interpretation of Key Issues in BS4434:1995 Specifically for Commercial Refrigeration *Issue 1 Revision 1 (02/96)*
- 6 Danger : Do Not Mix Refrigerants! (09/96)
- 7 A guide to Selecting Copper Tube and Fittings for New Refrigeration & Air Conditioning Systems with Air Cooled Condensers to comply with BS4434:1995 (09/96)
- 8 Pressure Relief Devices: Guidance on selection for the low pressure side of systems 03/98

B.F.C.M.A. - (British Flue & Chimney Manufacturers' Association)

A Guide to Choosing and Using Flues and Chimneys for Domestic Gas Burning Appliances

This leaflet has been produced by the BFCMA to give some general guidelines on how to choose and maintain chimneys for maximum performance and durability. It is important to ensure that the chosen chimney and heating arrangements as a whole are suitable for the purpose intended and conform to the relevant regulations and standards.

The BFCMA Guide Choosing and Using Flues and Chimneys for Domestic Solid Fuel and Wood Burning Appliances

This guide is intended to give useful guidelines on the choice and installation of factory made systems for building and also relining chimneys, that can be used with solid fuel burning appliances and fires. It is an updated version of the last guide issued in 1988.

Recommendations are also given on the use and maintenance of chimneys that are important to ensure that the installation operates safely and efficiently. Useful points of reference and contacts are also included.

The installation of both chimneys and heating appliances is governed by Building Regulation and British Standards. It is therefore the responsibility of the specifier, installer and user to

ensure the products used and installation as a whole meets these requirements. This guide is not a substitute for these requirements and the BFCMA cannot accept any liability for actions taken as a result of the information given in this guide.

Aims and Objectives/Product Directory

This leaflet sets out the benefits of becoming a member and of dealing with member companies when considering chimney installations. It also contains details of the member companies, showing the products and services that each can offer.

H.P.A. (Heat Pump Association)

A profile of the Heat Pump Association - “Getting out more than you put in”

This booklet sets out the aims and objectives of the Heat Pump Association, describes briefly what a heat pump is capable of. It also sets out the benefits of using this technology e.g. saving money, saving space, saving energy and the flexibility in design.

Export Club

FRONTIERS

A directory of UK companies that export HVAC&R equipment and services.