

# AdvantageAir

ADVANCED CLIMATE CONTROL SYSTEMS

TECHNICAL CATALOGUE



TECHNICAL CATALOGUE



Quality  
Endorsed  
Company

2008

The most advanced air delivery system  
ever developed for ducted air conditioning



**ABOUT THIS CATALOGUE**

**A-ATC 1**



**CONTACT ADVANTAGE AIR**

**A-CAA 1**



**QUALITY SYSTEMS**

**A-QS 1**



**ENGINEERING**

**A-ENG 1**

# GENERAL INFORMATION ABOUT THIS CATALOGUE

AdvantageAir

## GENERAL

This catalogue contains the standard range of air conditioning products manufactured, supplied and distributed by *Advantage Air*. If any product you require is not listed in this catalogue please contact your local office.

## HOW TO USE

To assist in finding where a particular product or service is, there are three indexes which work as follows:

- The first index at the front of the catalogue lists the products in their product groups. Each page is marked with the product group on the edge of the page.
- The second index is located at the back of the catalogue and lists the products in alphabetical order.

## REVISIONS

This catalogue's revision date is indicated at the bottom of each page. Future revisions will indicate their date of revision. If you are not sure that you have the current version please call us.

In order to improve the quality of all our products, we reserve the right to make changes in design, specification and pricing without notice or obligation and to change or discontinue models.

## COPYRIGHT

The entire contents of this catalogue are copyright. Any breaches of the copyright may result in legal action against those infringing the copyright.

Clients of *Advantage Air* are at liberty to copy this catalogue strictly for the purpose of selecting, pricing, marketing or selling *Advantage Air* products.

## COLOUR CODING

Where possible, all Advantage Air products are colour coded for easy identification and to reduce handling and installation errors. Colours can be found on items such as flexible duct bags, spigots, collars etc. Each colour indicates a different diameter. A legend of the colours is as follows:

COLOUR	SIZE (mm)
WHITE	150 DIA
ORANGE	200 DIA
BLACK	250 DIA
BLUE	300 DIA
YELLOW	350 DIA
GREEN	400 DIA
PURPLE	450 DIA
RED	500 DIA
PINK	550 DIA

# GENERAL INFORMATION

## HOW TO CONTACT ADVANTAGE AIR

AdvantageAir

### AUSTRALIA

#### Perth

Advantage Air AUST Pty Ltd  
6 Miles Rd, Kewdale,  
Western Australia 6105  
PO Box 91 Bentley,  
Western Australia 6982  
T: +618 6218 6000  
F: +618 9353 1173  
E: [contact@advantageair.com.au](mailto:contact@advantageair.com.au)

#### Sydney

Advantage Air (NSW) Pty Ltd  
3b/6 Boundary Road, Northmead,  
New South Wales 2152  
PO Box 2372 North Parramatta,  
New South Wales 1750  
P: +612 9683 2446  
F: +612 9630 2366  
E: [sydney@advantageair.com.au](mailto:sydney@advantageair.com.au)

#### Melbourne

Advantage Air (VIC) Pty Ltd  
29 Spencer Street, Sunshine,  
Victoria 3020  
T: +613 9314 9655  
F: +613 9314 9566  
E: [melbourne@advantageair.com.au](mailto:melbourne@advantageair.com.au)

#### Brisbane

Advantage Air (QLD) Pty Ltd  
320 Fison Avenue East, Eagle Farm,  
Queensland 4009  
T: +617 3268 1588  
F: +617 3268 2366  
E: [brisbane@advantageair.com.au](mailto:brisbane@advantageair.com.au)

# GENERAL INFORMATION

## HOW TO CONTACT ADVANTAGE AIR

AdvantageAir

### SOUTH AFRICA

#### Johannesburg

Advantage Air Africa CC  
12 Pressburg Avenue, Founders  
View North, Modderfontein,  
Gauteng  
PO Box 3573  
Edenvale 1610  
T: +2711 452 0573 / 452 3391  
F: +2711 452 9076  
E: [advantageairafrica@yebo.co.za](mailto:advantageairafrica@yebo.co.za)

#### Capetown

Advantage Air  
Unit 1, Ingrid Rd  
Montague Gardens,  
Capetown 7441  
PO Box 60881 Tableview,  
Capetown 7439  
T: +2721 551 5568  
F: +2721 551 5569  
E: [advairct@iafrica.com](mailto:advairct@iafrica.com)

#### Durban

Advantage Air KZN Pty Ltd  
Unit 1, 9 Cedarfield Close,  
Springfield Park,  
Durban 4091  
PostNet Suite 179  
Private Bag X04  
Dalbridge Durban 4014  
T: +2731 579 4615  
F: +2731 579 3903  
E: [advantageairkzn@saol.com](mailto:advantageairkzn@saol.com)

Advantage Air is a quality assured company accredited to AS / ISO 9001. The accreditation covers:

- The design and development of products.
- The manufacture of flexible duct.
- The manufacture of sheetmetal fittings.
- The manufacture of plastic air diffusers.
- The manufacture of aluminium air terminals
- The distribution of air conditioning components

An important part of our quality assurance is the measuring of customer satisfaction with our products.

We appreciate your feedback especially where our products or service did not meet your expectations, or if you have any suggestions for improvements.



## *Certificate of Registration*

**ADVANTAGE AIR AUST PTY LTD**

ACN 056 510 555

4 Whyalla Street WILLETTON WA 6155 AUSTRALIA

The above licensee has been assessed and registered by Quality Assurance Services Pty Limited as having the capability to control the quality of goods or services provided in accordance with the conditions of Licence Agreement Number QEC8112 at or from the addresses shown in the Schedule 1 to the Licence Agreement, under a quality system complying with the requirements of :

**AS/NZS ISO9001:1994**

**Quality systems-Model for quality assurance in design development production installation and servicing**

Certified Date: 19 July 1996  
Issue Date: 26 June 1998  
Issue No.: 2

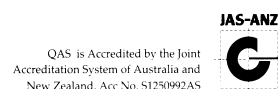
Licence No.: QEC8112

  
Keith Ketheeswaran  
Quality Assurance Services, Managing Director

  
Authorised Local Signatory, QAS



Quality Assurance Services Pty Limited A.C.N. 050 611 642



QED21.04 CDAN 971416

As part of the range of services offered to its clients, *Advantage Air* will provide Mechanical Services Engineering advice upon request. It is envisaged that the service will be on an occasional rather than regular basis and limited to regular clients of *Advantage Air*.

*Advantage Air* gives advice in good faith, and disclaim any liability for the advice given. Any persons or businesses receiving advice remain wholly responsible for the projects for which they have received advice.

## HANDY HINTS

Detailed below are some guidelines for sizing ductwork and grilles. It is advisable to check your installation with the actual manufacturer's data.

FLEXIBLE DUCT SIZING	
MAX RECOMMENDED AIR QUANTITY (l/s)	DUCT DIA (mm)
44 l/s	Ø 150
92 l/s	Ø 200
170 l/s	Ø 250
275 l/s	Ø 300
385 l/s	Ø 350
503 l/s	Ø 400
636 l/s	Ø 450
785 l/s	Ø 500
950 l/s	Ø 550

GRILLE SIZING	
APPLICATION	MAX RECOMMENDED VELOCITY (m/s)
Return air grille at high level	1.75
Return air grille at low level	1.50
Return air grille for low noise level	1.25
Wall registers	2.50
Fresh air grilles	1.50
Discharge louvres	1.50

SHEET METAL DUCT SIZING		
APPLICATION	MAX VELOCITY (m/s)	MAX PRESSURE DROP (Pa)
Supply air main duct	7.50	1 to 0.8
Supply air branch duct	6.00	0.8
Supply air branch to single outlet	4.00	0.8
Return air main duct	6.00	1 to 0.8
Fresh air duct		0.4
Return air via corridor	0.38	

DOOR GRILLE SIZING	
SIZE (mm)	MAX RECOMMENDED AIR QUANTITY (l/s)
600x150	120 l/s
600x200	155 l/s
600x250	190 l/s
600x300	235 l/s
600x350	275 l/s
600x400	315 l/s
600x450	350 l/s
600x600	465 l/s

CONVERSIONS		
CONVERT	TO	MULTIPLE
Inches (in)	Millimetres (mm)	in X 25.4
Square inches (sq in)	Square millimetres (mm <sup>2</sup> )	sq in X 645.16
Square feet (sq ft)	Square metres (m <sup>2</sup> )	sq ft X 0.0929
Inches water (in water)	Pascals (Pa)	in water X 249
Pounds (lb)	Kilograms (kg)	lb X 0.45359

CONVERSIONS		
CONVERT	TO	MULTIPLE
Litres per second (l/s)	cubic feet per minute (cfm)	l/s X 2.119
Cubic feet per minute (cfm)	Litres per second (l/s)	cfm X 0.4719
Hp (refrigeration)	Watts (refrigeration)	Hp X 2.595 (nominal)
Ton (refrigeration)	kW (refrigeration)	Tons X 3.5168
BTU/hr	Watts (refrigeration)	BTU/hr X 0.293

For more handy hints refer to Advantage Air Web Site <http://www.advantageair.com.au/tectps.html>