

# DUCTLAB

204mm x 60mm | 220mm x 90mm | 300mm x 60mm | 320mm x 75mm | 350mm x 75mm



## LOW PROFILE FLAT PVC DUCT

2020 Edition



# DUCTLAB AUSTRALIA

AIRFRESH GROUP PTY LTD

ABN 28 635 841 824

Melbourne & Sydney Warehouses Now Open

Phone:(03) 9193 7282 | Email: sales@ductlab.com.au



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At DUCTLAB AUSTRALIA, you will find the largest range of low-profile Flat PVC Ducting in Australia. Our environmentally friendly ducting systems are ideal for limited ceiling space environments in residential, industrial and commercial applications. Due to its light-weight simple on-site customizability, our systems are installed quicker and with less hassle than conventional ducting systems. This saves time and money.

Our Flat Ducting has been engineered for quiet and efficient extraction of both wet and dry air from areas such as bathrooms, kitchens and laundry rooms. Our ducting comes in 5 different sizes and is complemented with 12 different fittings for each size to help suit every application. DUCTLAB ducting can be fixed to the ceiling with the use of a nail gun through our easily mounted support clips. Assembly is simple and requires no complicated tools. The available fittings for our channel duct include rectangular to rounds, horizontal bends, vertical bends, round to rounds, reducers, connectors, clips, etc.

## Environmentally Friendly, Safe & Fire Rated

Our Flat Duct is 100% recyclable with a Green Star Rating and is a Best Practice approved PVC product. Our Certifications Include:

- AS1530.3-1999 (Fire Rated)
- AS4254.2-2012 (Ductwork Handling)
- UL-181.11-2013 (Burning Test)
- VOC Emission Certified
- BEP (Best Environmental Practice)
- Vinyl Australia | Green Building Council Australia

Flat Duct Sizes: \*\* all without middle support bar for optimal air flow\*\*

204\*60mm | 220\*90mm | 300\*60mm | 320\*75mm | 350\*75mm |

Our competitive prices and large product range help contractors, estimators & engineers win projects and get their job done right the first time. DUCTLAB customers will appreciate our high-quality product, flexibility, and professionalism.



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## Our Low Profile Flat PVC Ductwork Product Range

 <p>#1001 5 Sizes   Without Middle Bar – 2M</p>	 <p>#1002 Duct Connector</p>	 <p>#1003/4 Support Clip - Plastic/Metal</p>
 <p>#1005 45° Horizontal Bend</p>	 <p>#1006 90° Horizontal Bend</p>	 <p>#1007 45° Vertical Bend</p>
 <p>#1008 90° Vertical Bend</p>	 <p>#1009/10 Rectangular to Round Adapter Ø150/200mm</p>	 <p>#1011 Rangehood Adapter Ø150mm</p>
 <p>#1012 T-Piece Connector</p>	 <p>#1013/14 Rectangular to Round Adapter Ø150/200mm</p>	 <p>#1015/16 Round to Round Ø150-Ø125mm/ Ø150-Ø200mm</p>



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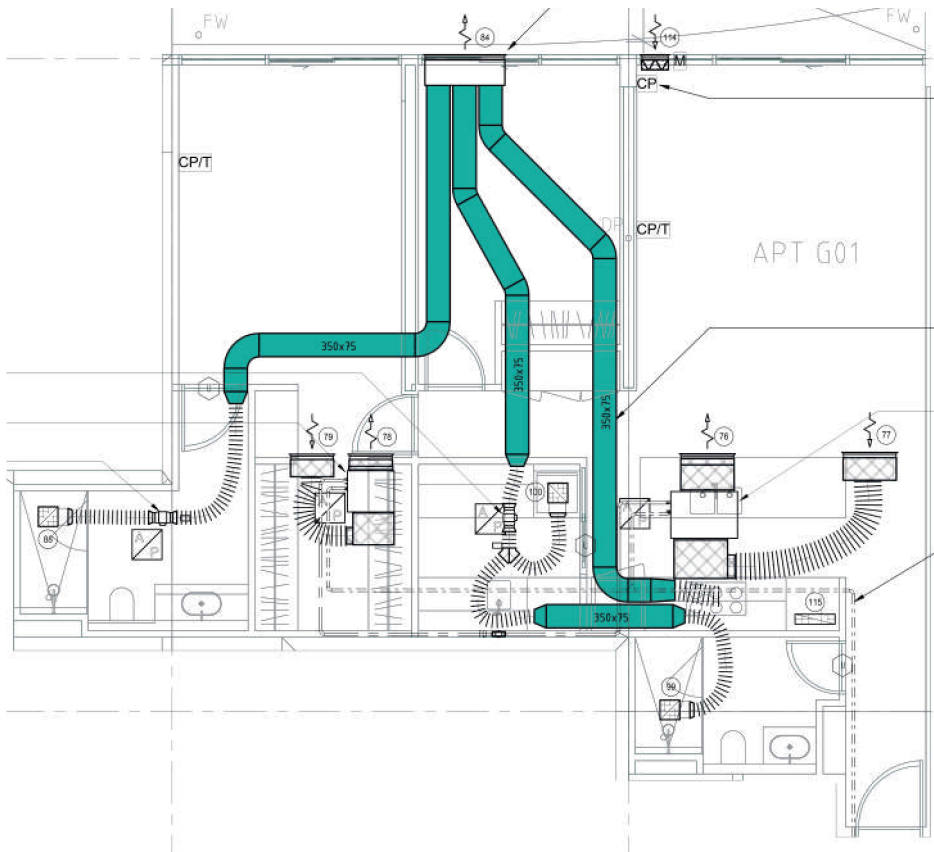
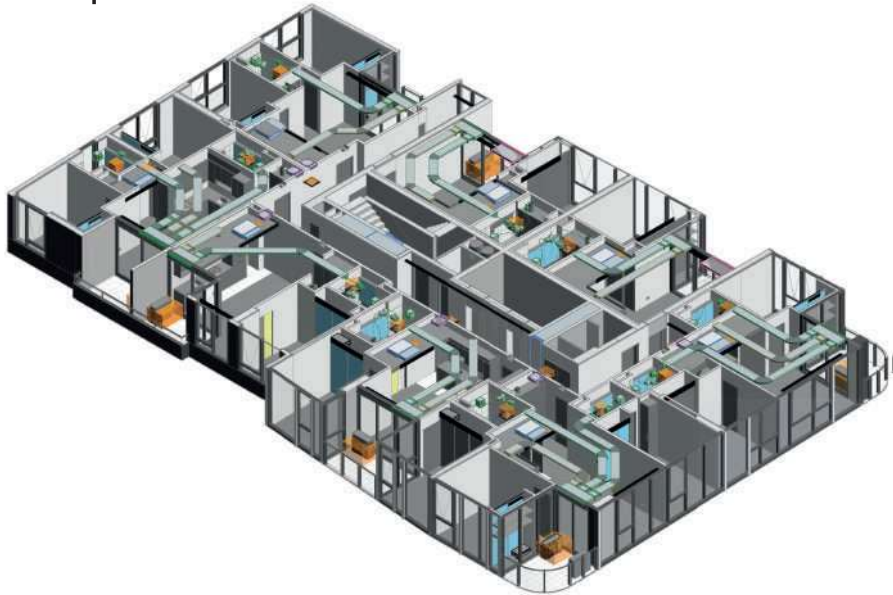
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## Typical Application of Flat PVC Ductwork for Apartments



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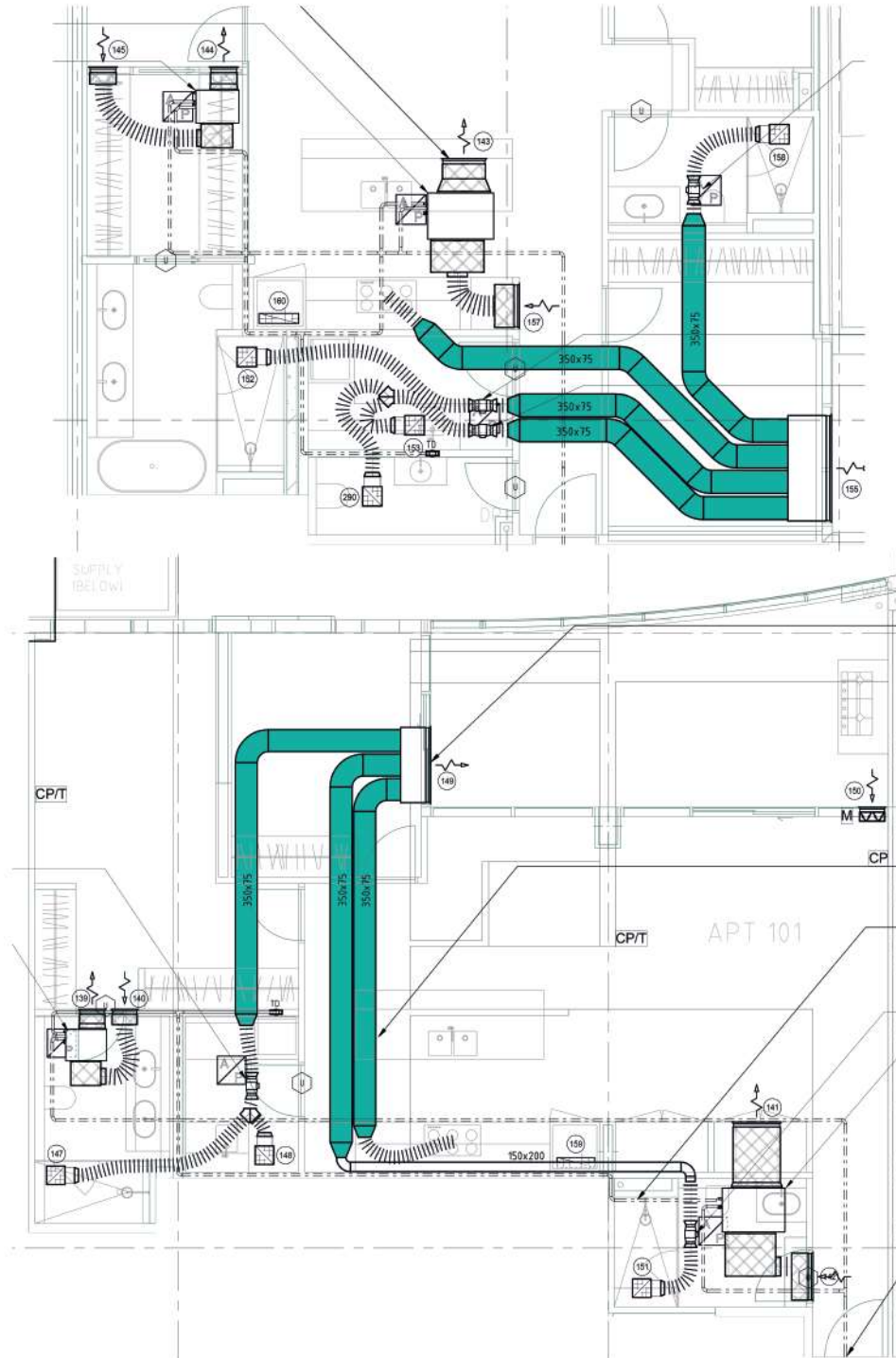
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## Typical Application of Flat PVC Ductwork for Apartments



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## AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing

A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031

P.O Box 240, North Melbourne, Victoria 3051

Phone (03) 9371 2400 Fax (03) 9371 2499

### TEST REPORT

**Client :** DuctLab Australia  
PO Box: 8282  
Baukham Hills NSW 2153

**Test Number :** 18-006372  
**Issue Date :** 22/11/2018  
**Print Date :** 13/08/2019

**Sample Description** Clients Ref : "PVC Ducting 204\*60mm / 220\*90mm / 300\*60mm / 320\*76mm"  
Rigid duct panels  
Nominal Composition : PVC  
Nominal Mass per Unit Area/Density : Approx: 3.7kg/m2  
Nominal Thickness : Approx: 3mm

AS/NZS 1530.3-1999

**Methods for Fire Tests on Building Materials, Components and Structures  
Part 3: Simultaneous Determination of Ignitability,  
Flame Propagation, Heat Release and Smoke Release**

Face tested:

Face

Date tested:

21/11/2018

Standard Error

Mean

Ignition time

Nil

Nil min

Flame propagation time

Nil

Nil sec

Heat release integral

Nil

Nil kJ/m<sup>2</sup>

Smoke release, log d

0.0323

-1.2553

Optical density, d

0.0563 / metre

Number of specimens ignited:

0

Number of specimens tested:

6

Regulatory Indices:

Ignitability Index

0 Range 0-20

Spread of Flame Index

0 Range 0-10

Heat Evolved Index

0 Range 0-10

Smoke Developed Index

3 Range 0-10

175651

31787

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Accredited for compliance with ISO/IEC 17025 - Testing  
- Chemical Testing  
- Mechanical Testing  
- Performance & Approvals Testing

Accreditation No. 983  
Accreditation No. 985  
Accreditation No. 1356



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APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc.(Hons)  
MANAGING DIRECTOR

0204/11/06

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P.O Box 240, North Melbourne, Victoria 3051

Phone (03) 9371 2400 Fax (03) 9371 2499

### TEST REPORT

**Client :** Ductlab Australia  
PO Box 8282  
Baulkham Hills NSW 2153

**Test Number :** 19-001039  
**Issue Date :** 12/04/2019  
**Print Date :** 13/08/2019

**Sample Description** Clients Ref : "PVC Ducting 204\*60mm /220\*90mm / 300\*60mm / 320\*76mm"  
Rigid Ducting  
Nominal Mass per Unit Area/Density : Approx 3.5kg/m2  
Nominal Thickness : Approx 1.9mm

UL 181.11-2013

#### Burning Test - Air Duct

Date of Testing	11/04/2019		
Sample Tested	Assembly		
External	Vertical	45 deg	Horizontal
1st after flame time	0	0	0 sec
1st after glow time	0	0	0 sec
2nd after flame time	0	0	0 sec
2nd after glow time	0	0	0 sec
Did flaming or glowing travel full length of specimen ?	No	No	No sec
Did flaming droplets ignite cotton ?	No	No	No
Internal	Vertical	45 deg	Horizontal
1st after flame time	0	0	0 sec
1st after glow time	0	0	0 sec
2nd after flame time	0	0	0 sec
2nd after glow time	0	0	0 sec
Did flaming or glowing travel full length of specimen ?	No	No	No

Compliance to AS 4254.1-2012 Clause 2.4.3

Complies

175575

34399

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# CERTIFICATE OF CONFORMITY

## Product Conformity Scheme (PCS)-Type Test Certification

Australian Certification Services Pty Ltd hereby certifies that documentation maintained by;

### Ductlab Australia

Unit 8 7-13 Ponting Street Williamstown Victoria 3016 AUSTRALIA

Has been examined and found to be in conformity with the requirements of the Best Practice Guidelines for PVC in the Built Environment. An audit of documentation was conducted on 20<sup>th</sup> August 2019 utilising the Green Star Credit-Auditor Verification Guidance of the product listed below and has been found to specifically comply with the following requirements:- Section 2.0 of Green Star Credit-Auditor Verification Guidance document pathway 2

- Manufacture of PVC Resin
- Manufacture and End of Life Management of PVC Product
- Use of PVC Recyclate in PVC products

Product Description	Brand
Range of Low Profile PVC Flat Duct	DUCTLAB AUSTRALIA

Paul Greig  
General Manager

Issue Date: 24<sup>th</sup> October 2019  
Initial Issue Date: 24<sup>th</sup> October 2019  
Expiry Date: 23<sup>rd</sup> October 2021

Certificate No.: 4059

Australian Certification Services Pty Ltd is a Certification Body accredited by JASANZ Ref: Z3951207AL (Product)

This certificate remains the property of Australian Certification Services Pty Ltd and remains valid provided that the source of materials and processes remain unchanged.

Page 1 of 1

Australian Certification Services Pty Ltd ABN 37 121 022 366  
PO Box 627 Jannali, NSW 2226 AUSTRALIA  
Phone:+61 2 8521 0726 Email:admin@certificationservices.com.au  
www.certificationservices.com.au

Certificate Number: 4059  
Issue Date: 24<sup>th</sup> October 2019  
Issue: 01 Revision: 00

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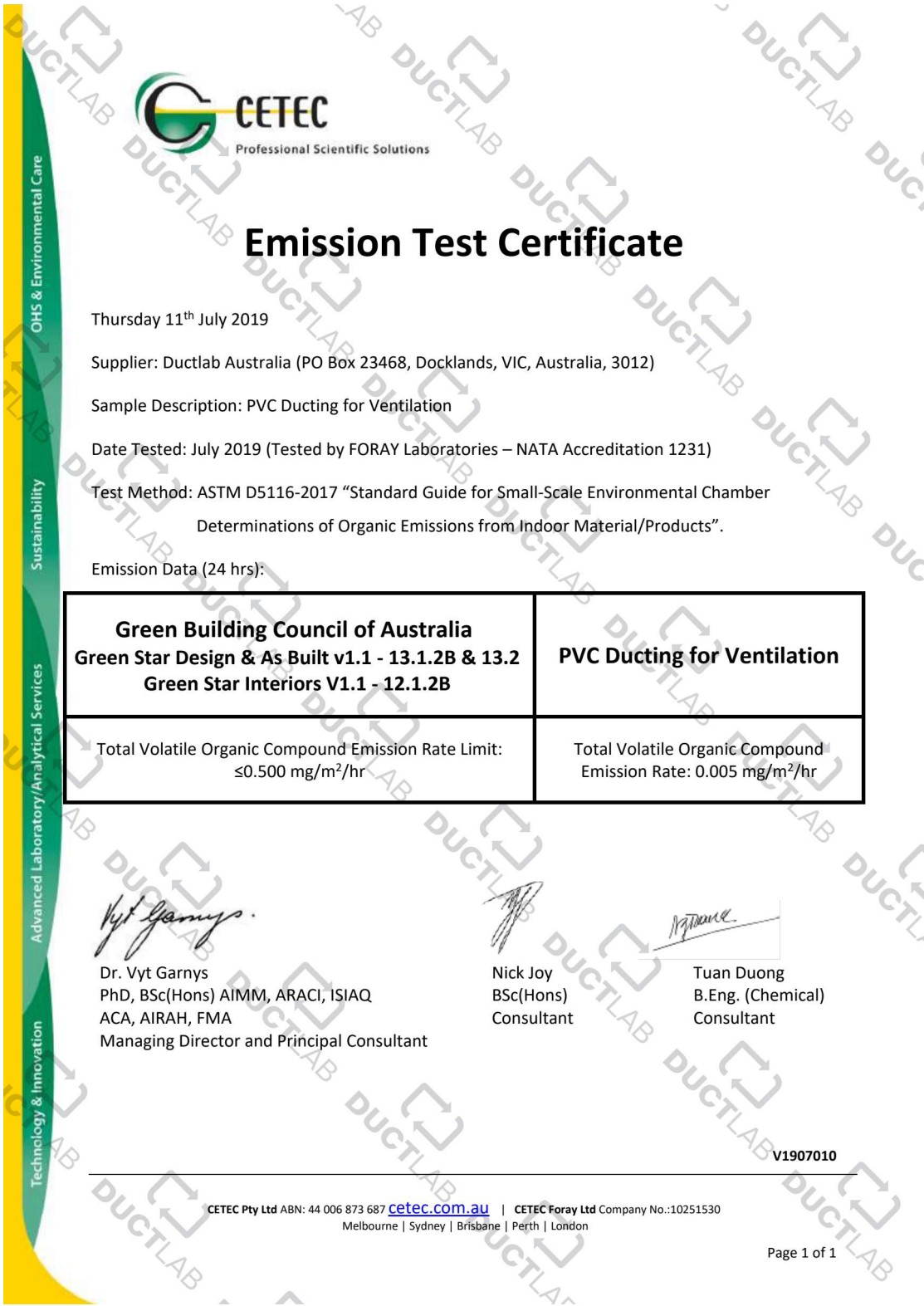
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## Emission Test Certificate

Thursday 11<sup>th</sup> July 2019

Supplier: Ductlab Australia (PO Box 23468, Docklands, VIC, Australia, 3012)

Sample Description: PVC Ducting for Ventilation

Date Tested: July 2019 (Tested by FORAY Laboratories – NATA Accreditation 1231)

Test Method: ASTM D5116-2017 "Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions from Indoor Material/Products".

Emission Data (24 hrs):

<b>Green Building Council of Australia</b> <b>Green Star Design &amp; As Built v1.1 - 13.1.2B &amp; 13.2</b> <b>Green Star Interiors V1.1 - 12.1.2B</b>	<b>PVC Ducting for Ventilation</b>
Total Volatile Organic Compound Emission Rate Limit: ≤0.500 mg/m <sup>2</sup> /hr	Total Volatile Organic Compound Emission Rate: 0.005 mg/m <sup>2</sup> /hr

Dr. Vyt Garnys  
PhD, BSc(Hons) AIMM, ARACI, ISIAQ  
ACA, AIRAH, FMA  
Managing Director and Principal Consultant

Nick Joy  
BSc(Hons)  
Consultant

Tuan Duong  
B.Eng. (Chemical)  
Consultant

V1907010

CETEC Pty Ltd ABN: 44 006 873 687 [cetec.com.au](http://cetec.com.au) | CETEC Foray Ltd Company No.:10251530  
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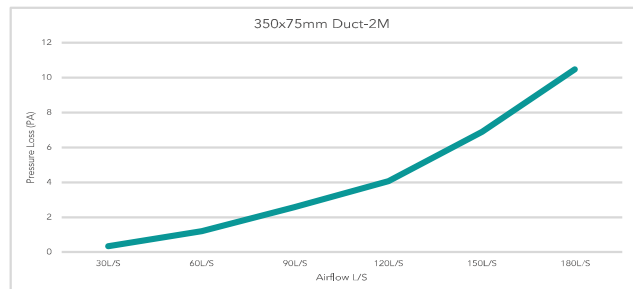
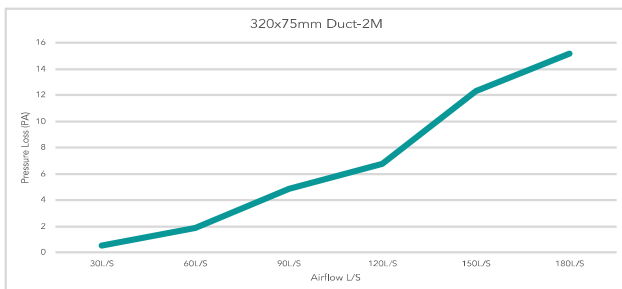
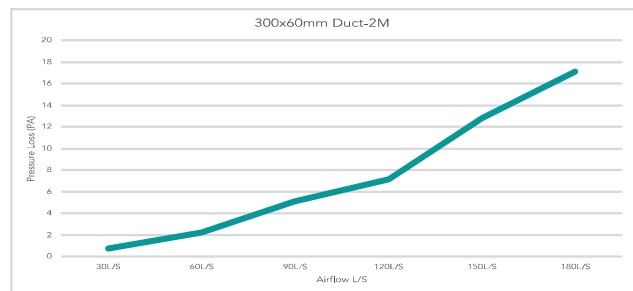
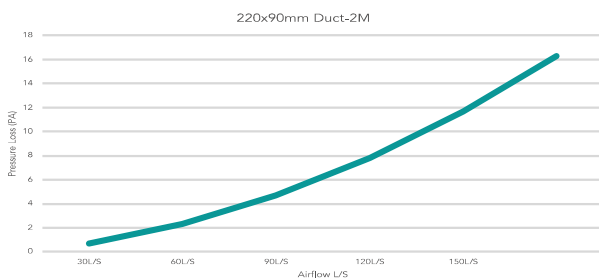
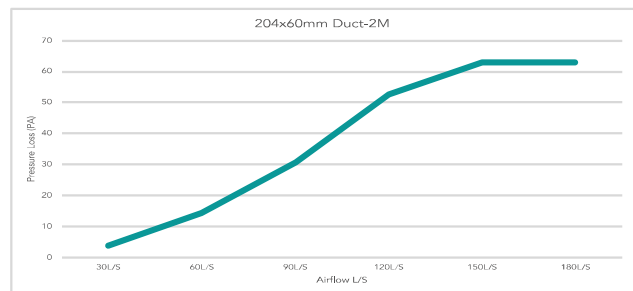
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## Low Profile Flat Channel Duct - 2M | 5 Sizes

PERFORMANCE DATA						
Product	30L/S	60L/S	90L/S	120L/S	150L/S	180L/S
204x60mm Channel Duct-2M	3.9	14.4	30.8	52.7	62.85	62.85
220x90mm Channel Duct-2M	0.7	2.3	4.7	7.8	11.7	16.3
300x60mm Channel Duct-2M	0.75	2.25	5.15	7.15	12.8	17.15
320x75mm Channel Duct-2M	0.55	1.85	4.85	6.79	12.3	15.2
350x75mm Channel Duct-2M	0.35	1.2	2.6	4.1	6.9	10.5

Airflow Litres per second (L/S)  
Pressure Lost Pa



LOW PROFILE FLAT PVC DUCT

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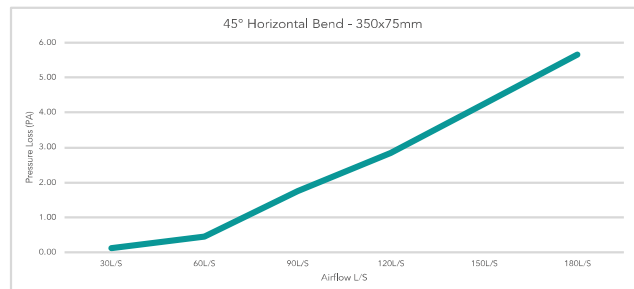
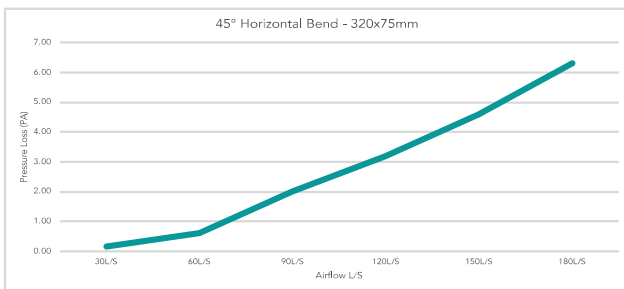
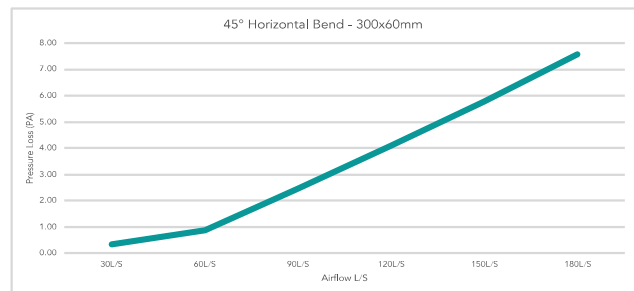
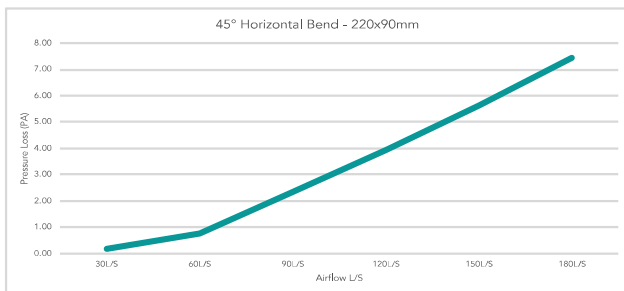
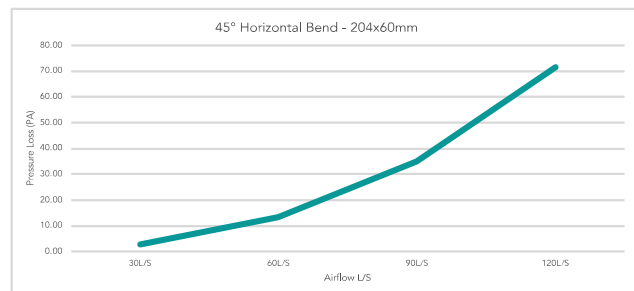
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## 45° Horizontal Bend

PERFORMANCE DATA							
Product		30L/S	60L/S	90L/S	120L/S	150L/S	180L/S
45° Horizontal Bend	204x60mm	2.70	13.20	35.00	71.60	-	-
45° Horizontal Bend	220x90mm	0.19	0.75	2.35	3.95	5.65	7.45
45° Horizontal Bend	300x60mm	0.32	0.88	2.48	4.08	5.78	7.58
45° Horizontal Bend	320x75mm	0.15	0.60	2.00	3.20	4.60	6.30
45° Horizontal Bend	350x75mm	0.12	0.45	1.75	2.85	4.25	5.65

Airflow Litres per second (L/S)  
Pressure Lost Pa



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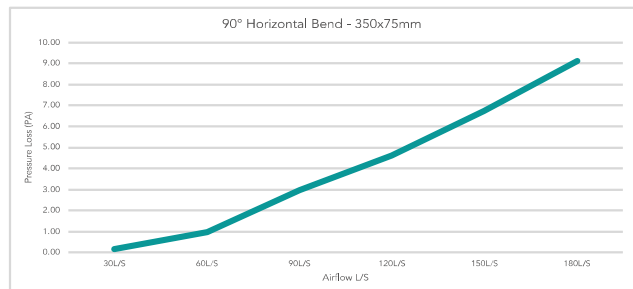
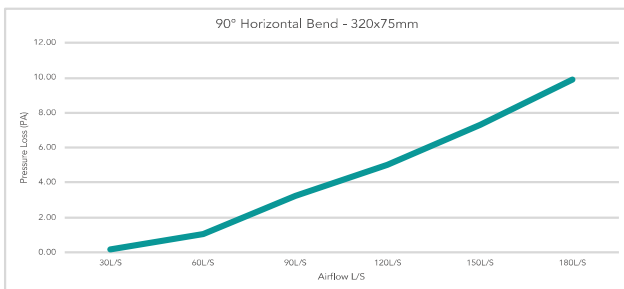
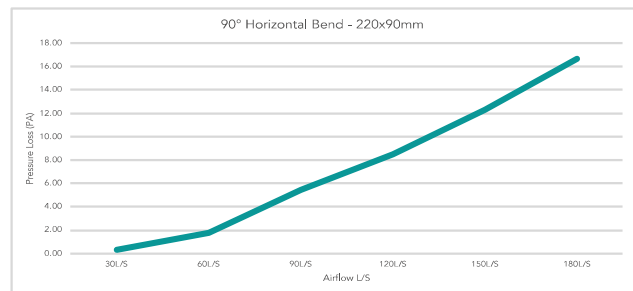
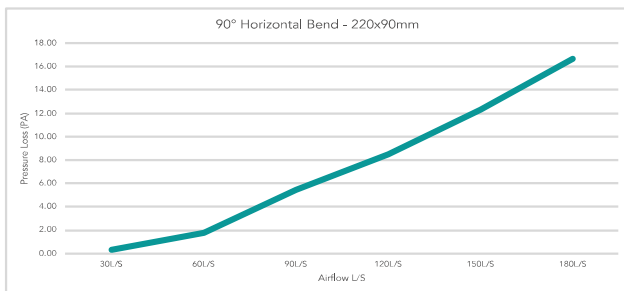
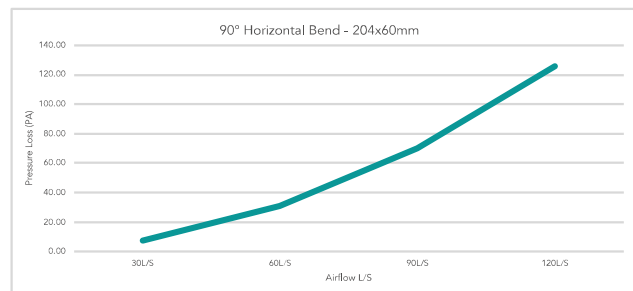
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## 90° Horizontal Bend

PERFORMANCE DATA							
Product		30L/S	60L/S	90L/S	120L/S	150L/S	180L/S
90° Horizontal Bend	204x60mm	7.50	30.60	69.90	125.60	-	-
90° Horizontal Bend	220x90mm	0.32	1.76	5.44	8.48	12.32	16.64
90° Horizontal Bend	300x60mm	0.48	1.92	5.60	8.64	12.48	16.80
90° Horizontal Bend	320x75mm	0.19	1.05	3.23	5.04	7.32	9.88
90° Horizontal Bend	350x75mm	0.18	0.96	2.98	4.64	6.74	9.10

Airflow Litres per second (L/S)  
Pressure Lost Pa



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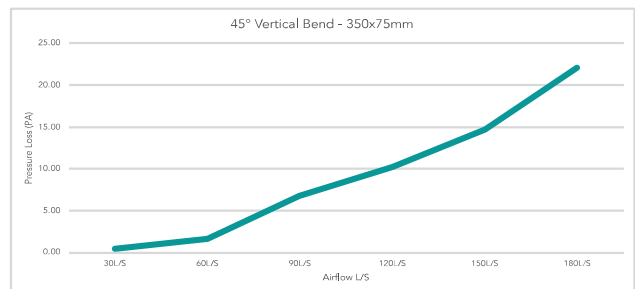
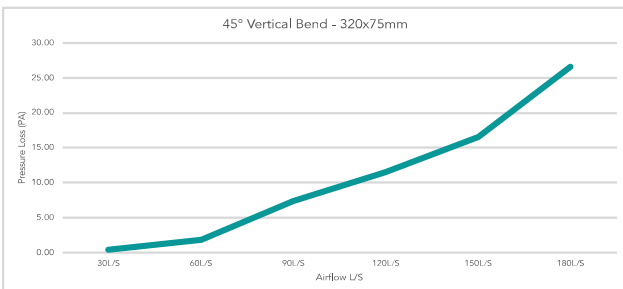
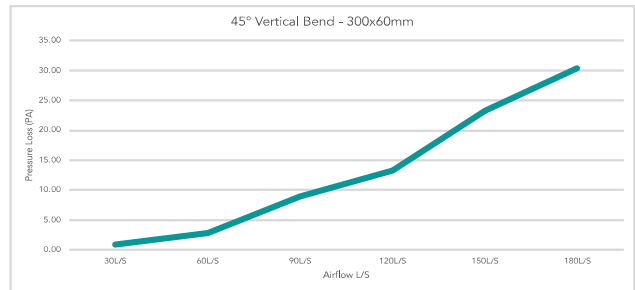
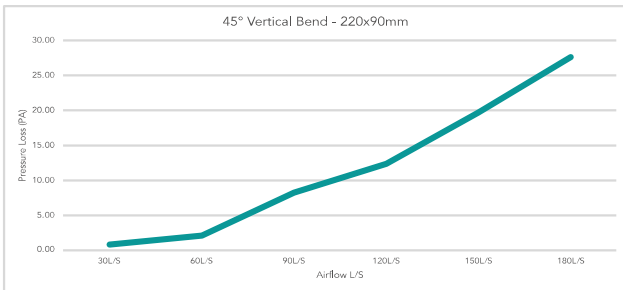
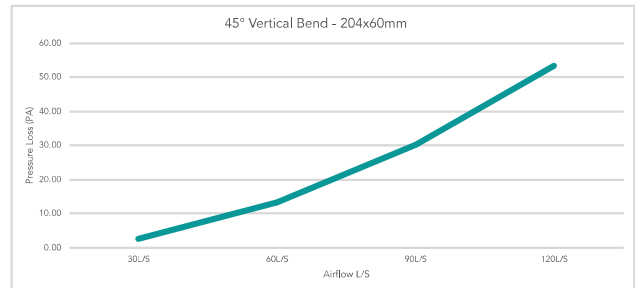
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## 45° Vertical Bend

PERFORMANCE DATA							
Product		30L/S	60L/S	90L/S	120L/S	150L/S	180L/S
45° Vertical Bend	204x60mm	2.70	13.40	30.10	53.40	-	-
45° Vertical Bend	220x90mm	0.73	2.11	8.28	12.34	19.71	27.62
45° Vertical Bend	300x60mm	0.80	2.85	8.86	13.21	23.31	30.32
45° Vertical Bend	320x75mm	0.47	1.85	7.41	11.45	16.53	26.60
45° Vertical Bend	350x75mm	0.43	1.62	6.74	10.21	14.67	22.12

Airflow Litres per second (L/S)  
Pressure Lost Pa



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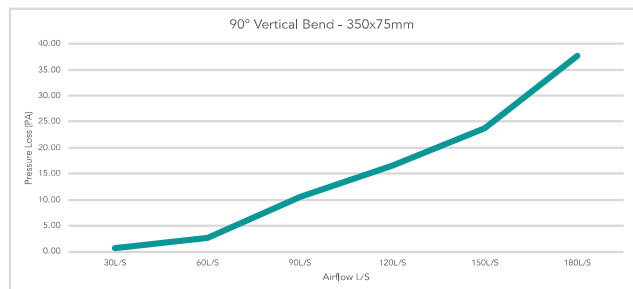
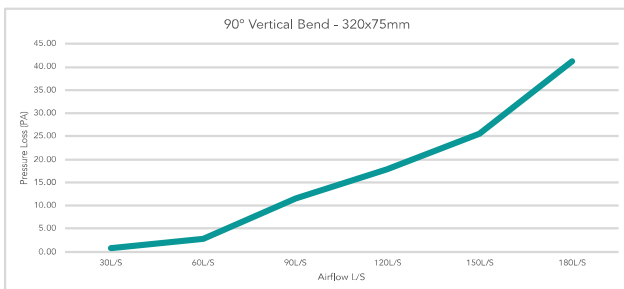
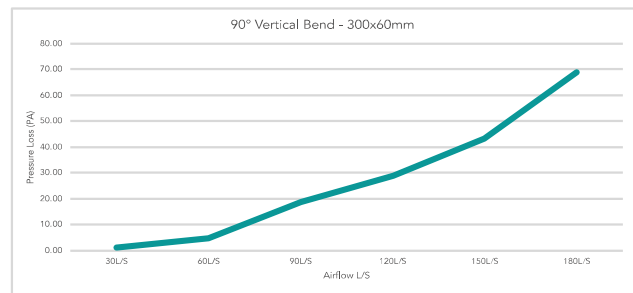
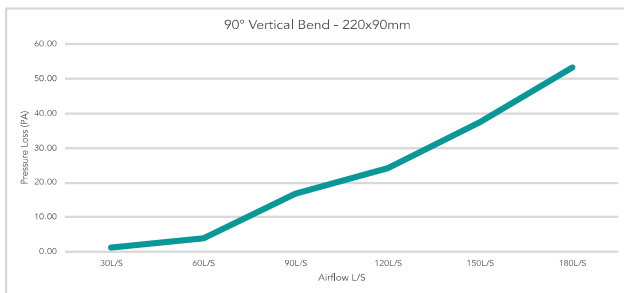
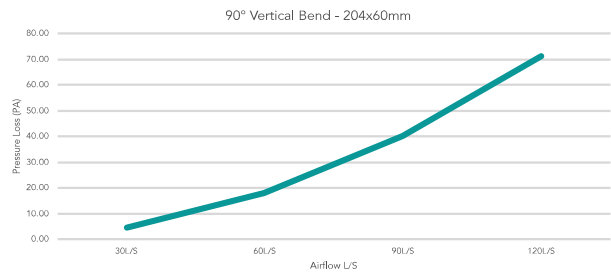
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## 90° Vertical Bend

PERFORMANCE DATA							
Product		30L/S	60L/S	90L/S	120L/S	150L/S	180L/S
90° Vertical Bend	204x60mm	4.50	17.90	40.20	71.20	-	-
90° Vertical Bend	220x90mm	1.26	3.98	16.77	24.10	37.30	53.30
90° Vertical Bend	300x60mm	1.35	4.60	18.76	28.79	43.26	68.72
90° Vertical Bend	320x75mm	0.74	2.84	11.43	17.92	25.48	41.21
90° Vertical Bend	350x75mm	0.67	2.63	10.65	16.53	23.84	37.68

Airflow Litres per second (L/S)  
Pressure Lost Pa



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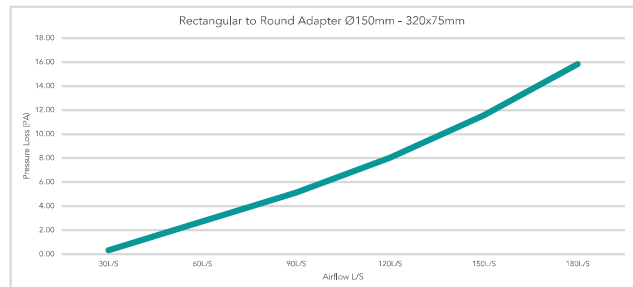
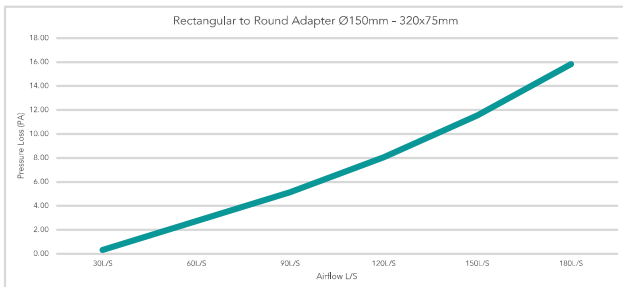
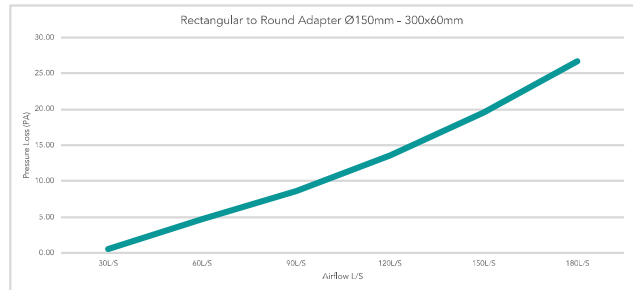
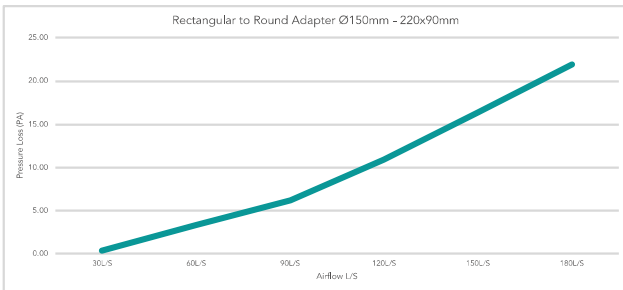
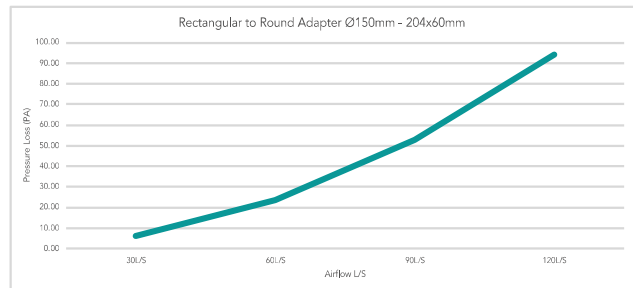
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## Rectangular to Round Adapter Ø150mm

PERFORMANCE DATA							
Product		30L/S	60L/S	90L/S	120L/S	150L/S	180L/S
Rectangular to Round Adapter Ø150mm	204x60mm	5.90	23.50	52.90	94.10	-	-
Rectangular to Round Adapter Ø150mm	220x90mm	0.32	3.27	6.23	10.86	16.32	21.92
Rectangular to Round Adapter Ø150mm	300x60mm	0.48	4.64	8.64	13.60	19.52	26.72
Rectangular to Round Adapter Ø150mm	320x75mm	0.29	2.76	5.13	8.08	11.59	15.87
Rectangular to Round Adapter Ø150mm	350x75mm	0.26	2.12	3.89	6.32	9.12	12.86

Airflow Litres per second (L/S)  
Pressure Lost Pa





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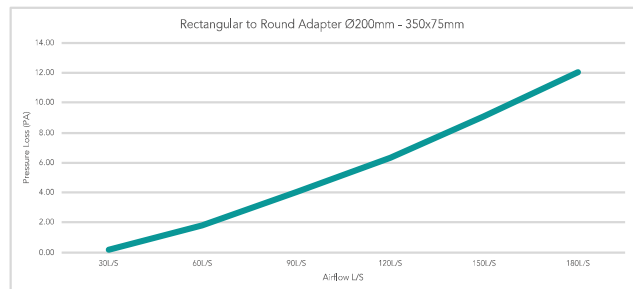
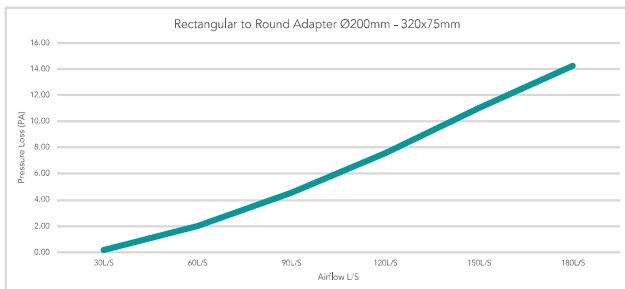
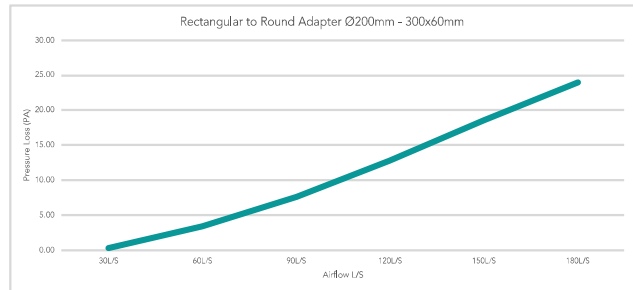
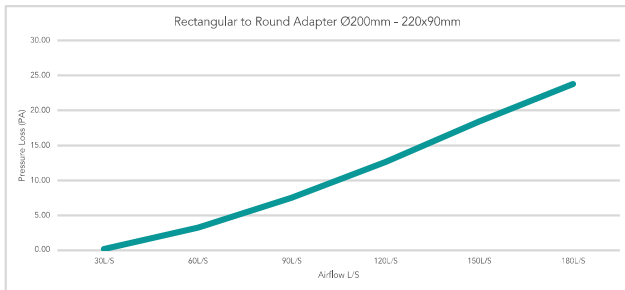
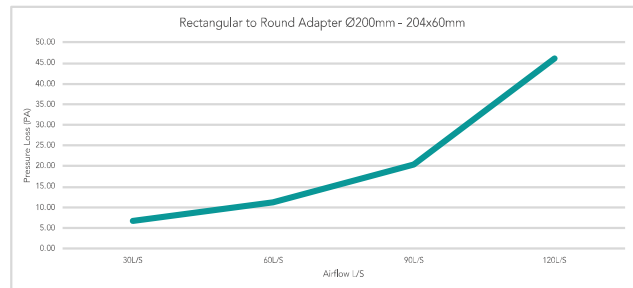
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## Rectangular to Round Adapter Ø200mm

PERFORMANCE DATA							
Product		30L/S	60L/S	90L/S	120L/S	150L/S	180L/S
Rectangular to Round Adapter Ø200mm	204x60mm	6.72	11.08	20.51	46.15	-	-
Rectangular to Round Adapter Ø200mm	220x90mm	0.16	3.20	7.52	12.64	18.40	23.84
Rectangular to Round Adapter Ø200mm	300x60mm	0.32	3.36	7.68	12.80	18.56	24.00
Rectangular to Round Adapter Ø200mm	320x75mm	0.19	2.00	4.56	7.60	11.02	14.25
Rectangular to Round Adapter Ø200mm	350x75mm	0.18	1.83	4.07	6.32	9.11	12.04

Airflow Litres per second (L/S)  
Pressure Lost Pa



LOW PROFILE FLAT PVC DUCT

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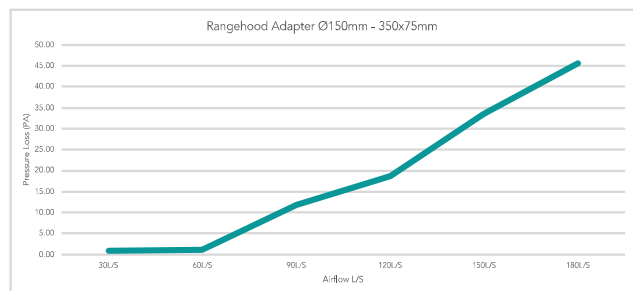
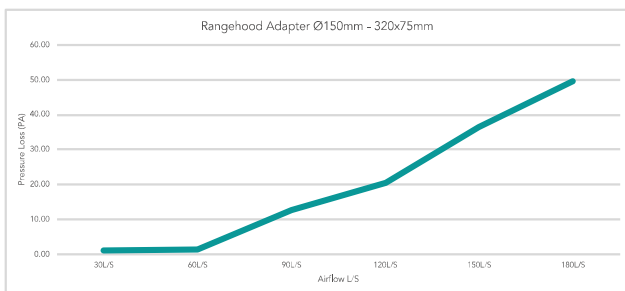
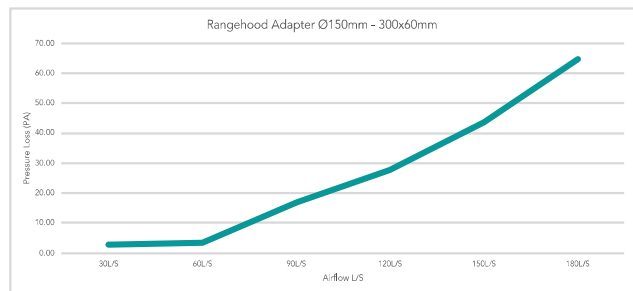
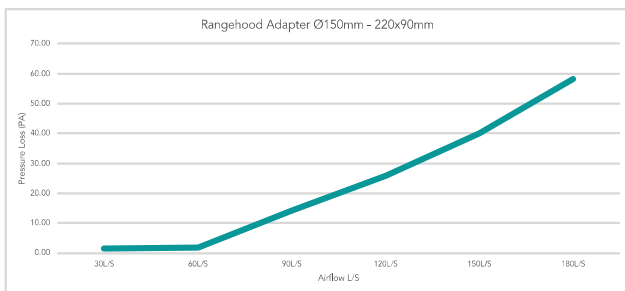
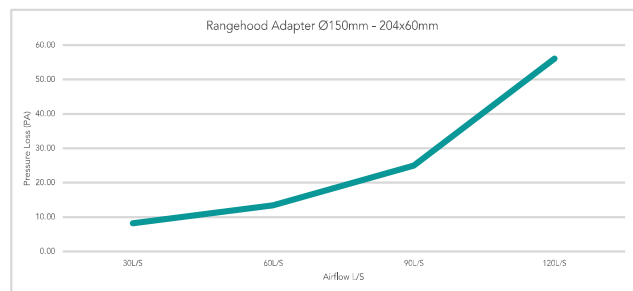
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## Rangehood Adapter Ø150mm

PERFORMANCE DATA							
Product		30L/S	60L/S	90L/S	120L/S	150L/S	180L/S
Rangehood Adapter Ø150mm	204x60mm	8.16	13.46	24.91	56.04	-	-
Rangehood Adapter Ø150mm	220x90mm	1.60	1.92	14.02	25.71	40.02	58.25
Rangehood Adapter Ø150mm	300x60mm	2.67	3.24	16.78	27.65	43.72	64.78
Rangehood Adapter Ø150mm	320x75mm	1.05	1.42	12.80	20.36	36.39	49.50
Rangehood Adapter Ø150mm	350x75mm	0.96	1.14	11.79	18.75	33.51	45.59

Airflow Litres per second (L/S)  
Pressure Lost Pa



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## T-Piece Connector

PERFORMANCE DATA							
Product		30L/S	60L/S	90L/S	120L/S	150L/S	180L/S
T-Piece Connector	204x60mm	2.80	7.20	16.14	27.31	-	-
T-Piece Connector	220x90mm	1.40	5.20	11.20	19.00	30.00	43.82
T-Piece Connector	300x60mm	1.54	5.72	12.32	20.90	33.00	52.70
T-Piece Connector	320x75mm	1.36	4.72	7.03	12.59	18.22	23.69
T-Piece Connector	350x75mm	1.30	2.40	4.80	8.20	11.50	17.50

Airflow Litres per second (L/S)  
Pressure Lost Pa

