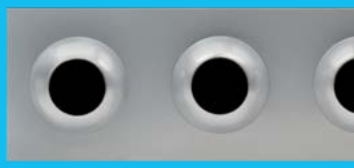
idealair
group

# MADEL®

# Linear Nozzle Diffusers



idealairgroup.com.au

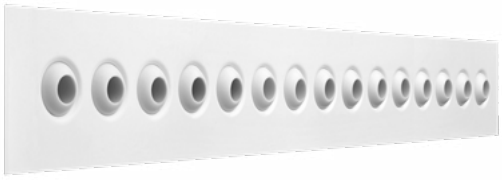
1 YR
WARRANTY

# LINEAR NOZZLE DIFFUSERS

## Overview

Madel linear long-range nozzle diffusers are designed for heating, cooling, and ventilation applications with temperature differences up to 12°C. Suitable for wall or ceiling mounting, they feature manually adjustable nozzles to direct airflow where needed, making them ideal for commercial and industrial spaces.

The integrated nozzle design creates a low-profile finish that easily blends with any interior look. The long-throw airflow allows for even air distribution, helping reduce drafts and temperature variations for improved occupant comfort and energy efficiency.



KIS

KOO

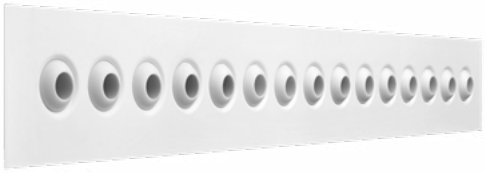
KAP

KOBE



idealair group reserves the right to make changes to product without prior notice.

info@idealairgroup.com.au idealairgroup.com.au



idealair group

## KIS Linear Micro-Jet Nozzle Diffuser

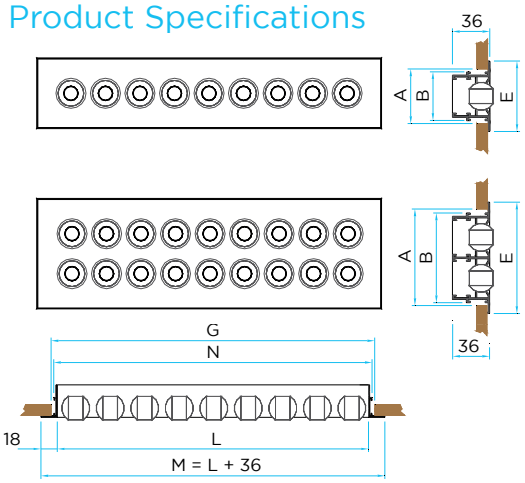
KIS diffusers are ideal for mounting on walls or ceilings at heights between 2.6 and 4 metres. The nozzles are made from polypropylene with an aluminium diffuser panel.

| Madel KIS | | | | | | | | | | | | | | | | | | | | | | Min Flow Rate | | Max Flow Rate | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Length | Height | L/s (Vf range 2.5 m/s - 6 m/s) | | | | | | | | | | | | | | | | | | | Throw | Dpt | Throw | Dpt |
| | mm | mm | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 105 | m | Pa | m | Pa |
| KIS 1 ROW | 500 | 68 | | | | | | | | | | | | | | | | | | | | | 1.5 | 7 | 4 | 42 |
| | 1000 | 68 | | | | | | | | | | | | | | | | | | | | | 1.5 | 7 | 4 | 42 |
| | 1100 | 68 | | | | | | | | | | | | | | | | | | | | | 1.5 | 7 | 4 | 42 |
| | 1200 | 68 | | | | | | | | | | | | | | | | | | | | | 1.5 | 7 | 4 | 42 |
| | 1300 | 68 | | | | | | | | | | | | | | | | | | | | | 1.5 | 7 | 4 | 42 |
| | 1400 | 68 | | | | | | | | | | | | | | | | | | | | | 1.5 | 7 | 4 | 42 |
| | 1500 | 68 | | | | | | | | | | | | | | | | | | | | | 1.5 | 7 | 4 | 42 |
| | 1600 | 68 | | | | | | | | | | | | | | | | | | | | | 1.5 | 7 | 4 | 42 |
| | 1700 | 68 | | | | | | | | | | | | | | | | | | | | | 1.5 | 7 | 4 | 42 |
| | 1800 | 68 | | | | | | | | | | | | | | | | | | | | | 1.5 | 7 | 4 | 42 |
| | 1900 | 68 | | | | | | | | | | | | | | | | | | | | | 1.5 | 7 | 4 | 42 |
| | 2000 | 68 | | | | | | | | | | | | | | | | | | | | | 1.5 | 7 | 4 | 42 |
| KIS 2 ROW | 500 | 107 | | | | | | | | | | | | | | | | | | | | | 2.2 | 8 | 4.7 | 40 |
| | 1000 | 107 | | | | | | | | | | | | | | | | | | | | | 2.2 | 8 | 4.7 | 40 |
| | 1100 | 107 | | | | | | | | | | | | | | | | | | | | | 2.2 | 8 | 4.7 | 40 |
| | 1200 | 107 | | | | | | | | | | | | | | | | | | | | | 2.2 | 8 | 4.7 | 40 |
| | 1300 | 107 | | | | | | | | | | | | | | | | | | | | | 2.2 | 8 | 4.7 | 40 |
| | 1400 | 107 | | | | | | | | | | | | | | | | | | | | | 2.2 | 8 | 4.7 | 40 |
| | 1500 | 107 | | | | | | | | | | | | | | | | | | | | | 2.2 | 8 | 4.7 | 40 |
| | 1600 | 107 | | | | | | | | | | | | | | | | | | | | | 2.2 | 8 | 4.7 | 40 |
| | 1700 | 107 | | | | | | | | | | | | | | | | | | | | | 2.2 | 8 | 4.7 | 40 |
| | 1800 | 107 | | | | | | | | | | | | | | | | | | | | | 2.2 | 8 | 4.7 | 40 |
| | 1900 | 107 | | | | | | | | | | | | | | | | | | | | | 2.2 | 8 | 4.7 | 40 |
| | 2000 | 107 | | | | | | | | | | | | | | | | | | | | | 2.2 | 8 | 6 | 55 |

Notes:
Throw data shown to free space from a wall mounted diffuser to a terminal velocity of 0.3 m/s.
Isothemal conditions applied.
All nozzles dicharging at 90° to the face of the diffuser.
Data shown is not to be used for commissioning purposes.
For other mounting applications, nozzle settings and supply air temperatures please contact Idealair Group for further technical support.
Throw data based on 1m long diffuser for other lengths correction factors below to be applied.

| Length | 0.5m | 1m | 1.5m | 2m |
|---|---|---|---|---|
| KIS 1 | 0.71 | 1 | 1.07 | 1.14 |
| KIS 2 | 0.73 | 1 | 1.09 | 1.15 |

## Product Specifications




| | E | A | B |
|---|---|---|---|
| KIS 1 | 68 | 55 | 47 |
| KIS 2 | 107 | 95 | 86 |

| L | M | N | G |
|---|---|---|---|
| 500 | 536 | 507 | 516 |
| 1000 | 1036 | 1007 | 1016 |
| 1200 | 1236 | 1207 | 1216 |
| 1500 | 1536 | 1507 | 1516 |
| 2000 | 2036 | 2007 | 2016 |

idealair group reserves the right to make changes to product without prior notice.



info@idealairgroup.com.au idealairgroup.com.au

idealair group

# KOO Linear Multi-Jet Nozzle Diffuser

KOO diffusers feature aluminium nozzles and a galvanised steel panel for reliable, flexible, and effective air distribution.

## Madel KOO - 100

| | Length | Height | L/s (Vf range 2.5 m/s - 6 m/s) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | mm | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260 | 280 | 300 |
| 1 ROW | 200 | 100 | | | | | | | | | | | | | | | | | | | | |
| | 300 | 100 | | | | | | | | | | | | | | | | | | | | |
| | 400 | 100 | | | | | | | | | | | | | | | | | | | | |
| | 500 | 100 | | | | | | | | | | | | | | | | | | | | |
| | 600 | 100 | | | | | | | | | | | | | | | | | | | | |
| | 700 | 100 | | | | | | | | | | | | | | | | | | | | |
| | 800 | 100 | | | | | | | | | | | | | | | | | | | | |
| | 900 | 100 | | | | | | | | | | | | | | | | | | | | |
| | 1000 | 100 | | | | | | | | | | | | | | | | | | | | |
| 2 ROW | 200 | 200 | | | | | | | | | | | | | | | | | | | | |
| | 300 | 200 | | | | | | | | | | | | | | | | | | | | |
| | 400 | 200 | | | | | | | | | | | | | | | | | | | | |
| | 500 | 200 | | | | | | | | | | | | | | | | | | | | |
| | 600 | 200 | | | | | | | | | | | | | | | | | | | | |
| | 700 | 200 | | | | | | | | | | | | | | | | | | | | |
| | 800 | 200 | | | | | | | | | | | | | | | | | | | | |
| | 900 | 200 | | | | | | | | | | | | | | | | | | | | |
| | 1000 | 200 | | | | | | | | | | | | | | | | | | | | |

| Nozzle Position 1 (0° nozzle spread) | | | |
|---|---|---|---|
| Min Flow Rate | | Max Flow Rate | |
| Throw | Dpt | Throw | Dpt |
| m | Pa | m | Pa |
| 2 | 5 | 12 | 120 |
| 2 | 5 | 13 | 110 |
| 2 | 5 | 14 | 110 |
| 2 | 5 | 15 | 100 |
| 2 | 5 | 17 | 80 |
| 2 | 5 | 18 | 80 |
| 2 | 5 | 18 | 75 |
| 2 | 5 | 18 | 65 |
| 2 | 5 | 18 | 60 |
| 2 | 5 | 14 | 120 |
| 2 | 5 | 17 | 100 |
| 2 | 5 | 20 | 90 |
| 2 | 5 | 22 | 80 |
| 2 | 5 | 22 | 70 |
| 2 | 5 | 23 | 80 |
| 2 | 5 | 23 | 80 |
| 2 | 5 | 23 | 75 |
| 2 | 5 | 23 | 65 |

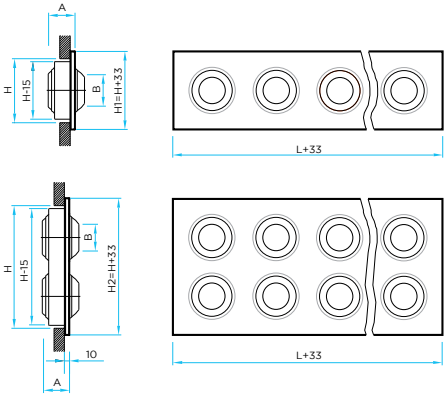
## Madel KOO - 150

| | Length | Height | L/s (Vf range 2.5 m/s - 6 m/s) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | mm | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260 | 280 | 300 |
| 1 ROW | 300 | 150 | | | | | | | | | | | | | | | | | | | | |
| | 450 | 150 | | | | | | | | | | | | | | | | | | | | |
| | 600 | 150 | | | | | | | | | | | | | | | | | | | | |
| | 750 | 150 | | | | | | | | | | | | | | | | | | | | |
| | 900 | 150 | | | | | | | | | | | | | | | | | | | | |
| | 1050 | 150 | | | | | | | | | | | | | | | | | | | | |
| | 1200 | 150 | | | | | | | | | | | | | | | | | | | | |
| 2 ROW | 300 | 300 | | | | | | | | | | | | | | | | | | | | |
| | 450 | 300 | | | | | | | | | | | | | | | | | | | | |
| | 600 | 300 | | | | | | | | | | | | | | | | | | | | |
| | 750 | 300 | | | | | | | | | | | | | | | | | | | | |
| | 900 | 300 | | | | | | | | | | | | | | | | | | | | |
| | 1050 | 300 | | | | | | | | | | | | | | | | | | | | |
| | 1200 | 300 | | | | | | | | | | | | | | | | | | | | |

| Nozzle Position 1 (0° nozzle spread) | | | |
|---|---|---|---|
| Min Flow Rate | | Max Flow Rate | |
| Throw | Dpt | Throw | Dpt |
| m | Pa | m | Pa |
| 2 | 5 | 15 | 80 |
| 2 | 5 | 16 | 80 |
| 2 | 5 | 18 | 80 |
| 2 | 5 | 18 | 90 |
| 2 | 5 | 18 | 80 |
| 2 | 5 | 18 | 100 |
| 2 | 5 | 19 | 75 |
| 2 | 5 | 20 | 60 |
| 2 | 5 | 20 | 80 |
| 2 | 5 | 24 | 70 |
| 2 | 5 | 25 | 80 |
| 2 | 5 | 26 | 80 |
| 2 | 5 | 28 | 90 |
| 2 | 5 | 30 | 90 |

Notes:
Throw data shown to free space from a wall mounted diffuser to a terminal velocity of 0.3 m/s.
Isothemal conditions applied.
All nozzles discharging at 90° to the face of the diffuser.
Data shown is not to be used for commissioning purposes.
For other mounting applications, nozzle settings and supply air temperatures please contact Idealair Group for further technical support.

## Product Specifications




| Ø | LxH | B | A | H1 | H2 | UN. | |
|---|---|---|---|---|---|---|---|
| 80 | Lx100 | 44 | 35 | 133 | - | L/H | 1 line |
| | Lx200 | 44 | 35 | - | 233 | 4x(L/H) | 2 lines |
| 125 | Lx150 | 61 | 57 | 183 | - | L/H | 1 line |
| | Lx300 | 61 | 57 | - | 333 | 4x(l/H) | 2 lines |



idealair group reserves the right to make changes to product without prior notice.

info@idealairgroup.com.au idealairgroup.com.au

032026

idealair group

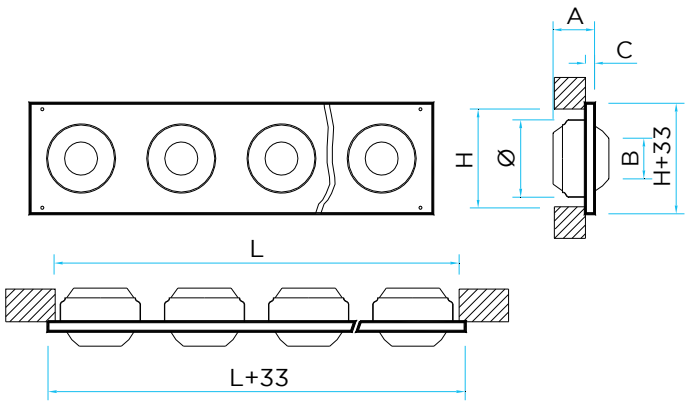
## KAP Linear Multi-Jet Nozzle Diffuser

KAP diffusers feature aluminium nozzles and a galvanised steel panel for reliable, flexible, and effective air distribution.

| Madel KAP | | | | | | | | | | | | | | | | | | | | | | | | | | Min Flow Rate | | Max Flow Rate | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length | Height | L/s (Vf range 2.5 m/s - 11 m/s) | | | | | | | | | | | | | | | | | | | | | | | | Throw | Dpt | Throw | Dpt |
| mm | mm | 25 | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | m | Pa | m | Pa |
| 500 | 200 | | | | | | | | | | | | | | | | | | | | | | | | | | 6 | 10 | 33 | 100 |
| 800 | 200 | | | | | | | | | | | | | | | | | | | | | | | | | | 8 | 10 | 40 | 140 |
| 1000 | 200 | | | | | | | | | | | | | | | | | | | | | | | | | | 8 | 10 | 45 | 120 |
| 1500 | 200 | | | | | | | | | | | | | | | | | | | | | | | | | | 9 | 10 | 48 | 120 |
| 2000 | 200 | | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 10 | 50 | 120 |
| 500 | 250 | | | | | | | | | | | | | | | | | | | | | | | | | | **8** | **10** | **45** | **140** |
| 800 | 250 | | | | | | | | | | | | | | | | | | | | | | | | | | **10** | **10** | **45** | **125** |
| 1000 | 250 | | | | | | | | | | | | | | | | | | | | | | | | | | **12** | **10** | **50** | **140** |
| 1500 | 250 | | | | | | | | | | | | | | | | | | | | | | | | | | **13** | **10** | **55** | **140** |
| 2000 | 250 | | | | | | | | | | | | | | | | | | | | | | | | | | **14** | **10** | **60** | **140** |
| 800 | 300 | | | | | | | | | | | | | | | | | | | | | | | | | | 7 | 10 | 33 | 100 |
| 1000 | 300 | | | | | | | | | | | | | | | | | | | | | | | | | | 8.5 | 10 | 40 | 100 |
| 1500 | 300 | | | | | | | | | | | | | | | | | | | | | | | | | | 9 | 10 | 40 | 120 |
| 2000 | 300 | | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 10 | 45 | 100 |
| 800 | 400 | | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 10 | 45 | 130 |
| 1000 | 400 | | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 10 | 45 | 130 |
| 1500 | 400 | | | | | | | | | | | | | | | | | | | | | | | | | | 14 | 10 | 50 | 100 |
| 2000 | 400 | | | | | | | | | | | | | | | | | | | | | | | | | | 17 | 10 | 55 | 100 |

Notes:
Throw data shown to free space from a wall mounted diffuser to a terminal velocity of 0.3 m/s.
Isothemal conditions applied.
All nozzles discharging at 90° to the face of the diffuser.
Data shown is not to be used for commissioning purposes.
For other mounting applications, nozzle settings and supply air temperatures please contact Idealair Group for further technical support.

## Product Specifications




| LxH | n | Ø | A | B | C |
|---|---|---|---|---|---|
| 500x200 | 2 | 160 | 90 | 80 | 10 |
| 800x200 | 4 | 160 | 90 | 80 | 10 |
| 1000x200 | 5 | 160 | 90 | 80 | 10 |
| 1500x200 | 7 | 160 | 90 | 80 | 10 |
| 2000x200 | 9 | 160 | 90 | 80 | 10 |
| 500x250 | 2 | 200 | 115 | 102 | 10 |
| 800x250 | 3 | 200 | 115 | 102 | 10 |
| 1000x250 | 4 | 200 | 115 | 102 | 10 |
| 1500x250 | 6 | 200 | 115 | 102 | 10 |
| 2000x250 | 7 | 200 | 115 | 102 | 10 |
| 800x300 | 2 | 250 | 125 | 130 | 15 |
| 1000x300 | 3 | 250 | 125 | 130 | 15 |
| 1500x300 | 4 | 250 | 125 | 130 | 15 |
| 2000x300 | 6 | 250 | 125 | 130 | 15 |
| 800x400 | 2 | 315 | 180 | 166 | 15 |
| 1000x400 | 2 | 315 | 180 | 166 | 15 |
| 1500 x 400 | 3 | 315 | 180 | 166 | 15 |
| 2000 x 400 | 4 | 315 | 180 | 166 | 15 |



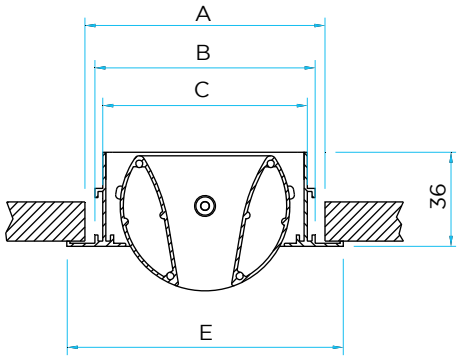
idealair group reserves the right to make changes to product without prior notice.

info@idealairgroup.com.au idealairgroup.com.au

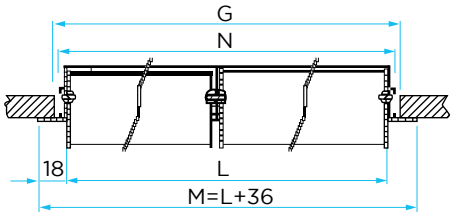
## KOBE Linear Slot Nozzle Diffuser

KOBE diffusers are made from durable aluminium with steel shafts and fasteners. Their clean, discreet design allows them to blend seamlessly into any interior.

## Product Specifications




| | A | B | C | E |
|---|---|---|---|---|
| 15 | 93.5 | 84.5 | 78.5 | 106 |
| 20 | 93.5 | 84.5 | 78.5 | 106 |
| 25 | 93.5 | 84.5 | 78.5 | 106 |
| 30 | 93.5 | 84.5 | 78.5 | 106 |
| 40 | 107.5 | 98.5 | 92.5 | 106 |
| 50 | 118.5 | 109.5 | 103.5 | 106 |



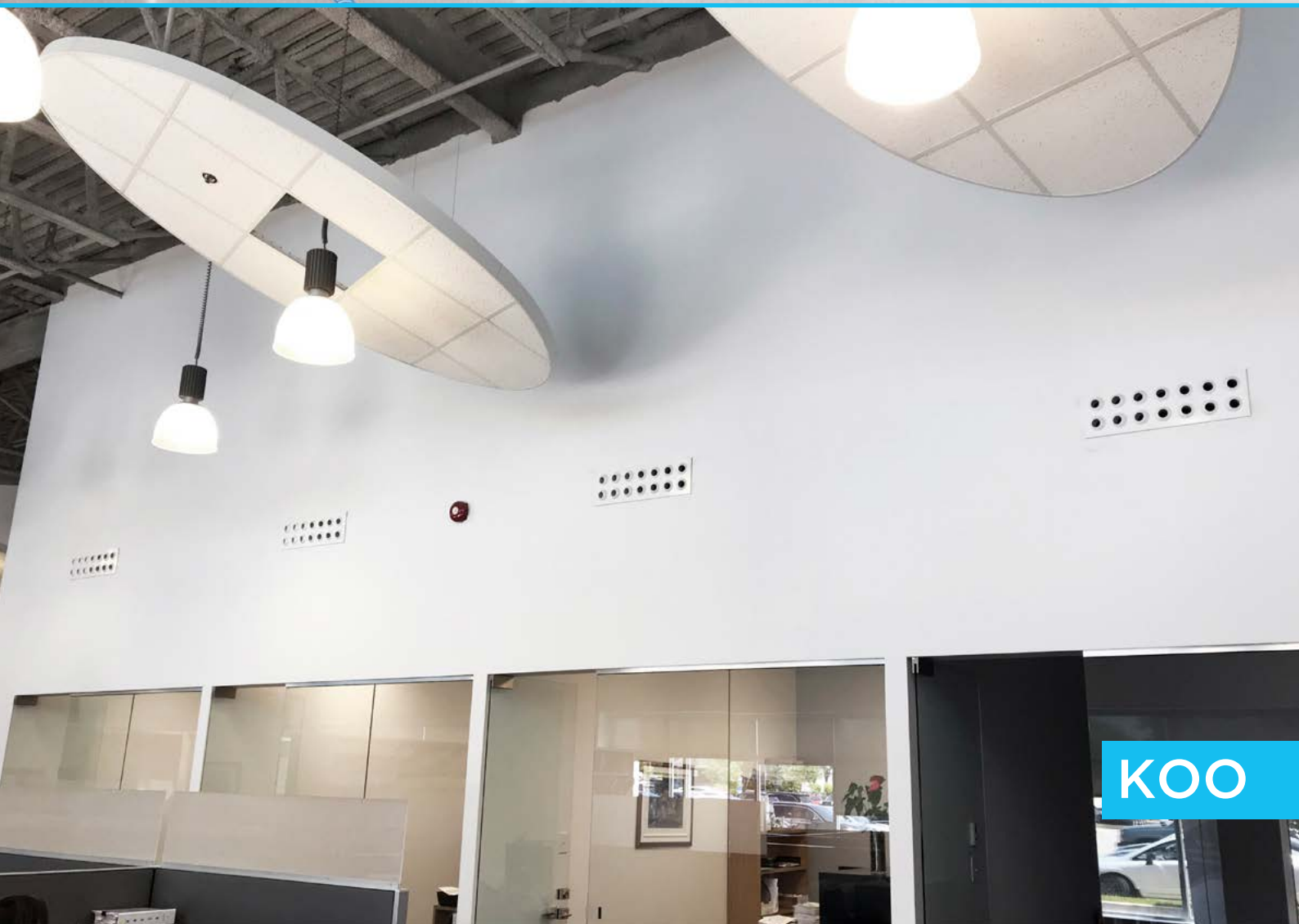

| A | B | C | E |
|---|---|---|---|
| 500 | 536 | 506 | 517 |
| 1000 | 1036 | 1009 | 1017 |
| 1500 | 1536 | 1509 | 1517 |
| 2000 | 2036 | 2009 | 2017 |



idealair group reserves the right to make changes to product without prior notice.

info@idealairgroup.com.au idealairgroup.com.au

KAP


KOO

idealair group

**Since 1979, Idealair Group has been a trusted partner for all ventilation needs.**

At Idealair Group, we specialise in ventilation, heating, ducting, energy recovery product, and more. Every product in our extensive range is tested and approved to ensure it meets the specified design requirements. Plus, with a complete range of stock readily available at all our branches, we ensure that order collection and delivery are both reliable and convenient.

We pride ourselves on providing tailored, engineered solutions for each customer. Our team of highly trained professionals are committed to offering practical help & advice, while meeting the diverse needs of your projects, from standard to complex applications.


**Chullora NSW**
Chullora Industrial Hub
B2, 2 Mayvic St
Greenacre, NSW 2190
T: +61 (02) 8073 3310
E: nsw@idealairgroup.com.au

**Fyshwick ACT**
53 Tennant St
Fyshwick, ACT 2609
T: +61 (02) 6280 5511
E: act@idealairgroup.com.au

**Dandenong South VIC**
63 Vision St
Dandenong South, VIC 3175
T: +61 (03) 9696 3044
E: vic@idealairgroup.com.au

**Acacia Ridge QLD**
1C, 29-41 Lysaght St
Acacia Ridge, QLD 4110
T: +61 (07) 3063 0300
E: qld@idealairgroup.com.au

**Winnellie NT**
Building 5, 31 Albatross St
Winnellie, NT 0820
T: +61 (08) 7918 5122
E: nt@idealairgroup.com.au

**Hobart TAS**
2/10 Lampton Ave
Derwent Park, TAS 7009
T: +61 (03) 6273 6455
E: info@majorair.com.au

w: idealairgroup.com.au