

# Commercial Refrigeration Evaporators

Engineered for reliability and energy efficiency



# Why choose Daikin?



## We know refrigeration inside out

Daikin Refrigeration delivers cold-chain solutions engineered for Australia's climate and compliance, with a focus on reliability, safety and lower operating costs, supporting medium and low temperature applications across retail, hospitality and cold storage.

Built on extensive engineering knowledge and quality components, Daikin delivers innovative and reliable technology, with support for lower-GWP refrigerants.



## DE M 023 B 1 B 4 V1 - A 1 S (B)

### Application

**DE:** Daikin DeVap Series

### Temperature Application

**M:** Medium Temperature (MT)

**L:** Low Temperature (LT)

### Nominal Capacity @R404A

**Australian Condition**

**023:** 2.3kW

### Fan Size

**B:** 300mm

**P:** 350mm

### No. of Fan

**1:** 1 fan

**2:** 2 fans

**3:** 3 fans

### Casing Size

**A:** Size A

**G:** Size G

### Fin Spec

**Blank:** Bare fins (Standard)

**B:** Blygold fin coated

### TX Valve Option

**S:** Standard (No TXV)

**E:** Factory Fitted EVD-ICE

### Unit Generation

**1:** Version 1

### Defrost Heater

**A:** Air defrost

**E:** Electric heater defrost

### Power Supply

**V1:** 240V/50Hz/1ph

### Fin Spacing

**4:** 4.23mm/6fpi

**6:** 6.35mm/4fpi

Daikin's range of refrigeration units is designed to suit a variety of applications, offering the ultimate flexibility and control. The unique combination of advanced technology and reliability makes Daikin refrigeration units the ideal choice.

## Benefits for the installer

- › Lightweight casing material for quick and easy installation
- › Simple, wide access for service and maintenance
- › Compatibility with A1 refrigerant blends

## Benefits for the end user

- › Compact design to free up more space and improve storage flexibility
- › Accessible drain pan for routine cleaning and hygiene maintenance
- › Durable components for improved reliability and longevity





## Features



### Space Saving Compact Unit

Designed to maximise usable storage space in coldrooms without compromising performance with a low profile height of just 415mm for 300mm fan models.



### Seamless Access & Commissioning

Toolless latch door and removable L-shaped swing side panel offer wider access and space for refrigeration work and enabling faster efficient installation.



### Optimised for Serviceability

Daisy-chain fan wiring, convenient front access electrical box and dedicated Schrader valve simplify maintenance and minimising downtime.



### Powder Coated Aluminium Casing

Lightweight aluminium with white powder coating enhances corrosion resistance and durability in demanding refrigeration environments.



### Pre-wired Components

Fan motor and electric heater<sup>^</sup> are pre-wired to the ABS waterproof electrical terminal box without requiring additional electrical works.



### Flexible Effective Drainage

Reversible drain pan with aluminium alloy drain fitting for reliable and effective water drainage with hinged, removable hanging drain pan design for quick cleaning.

Designed specifically for refrigeration applications, these units suit small to medium-sized coolrooms and freezer rooms. They are ideal for a range of establishments, including supermarkets, convenience stores, service stations, and food and beverage services.

Factory-fitted **Carel EVD Ice** and **Blygold Coil Coating** models are available.

### Axial Fan

- › Externally mounted for simple and convenient replacement
- › Equipped with standard 300mm or 350mm single-phase axial fans
- › Fan baffles on models with two or more fans minimise air bypass and enable easy fan malfunction identification

### Hanging Bracket

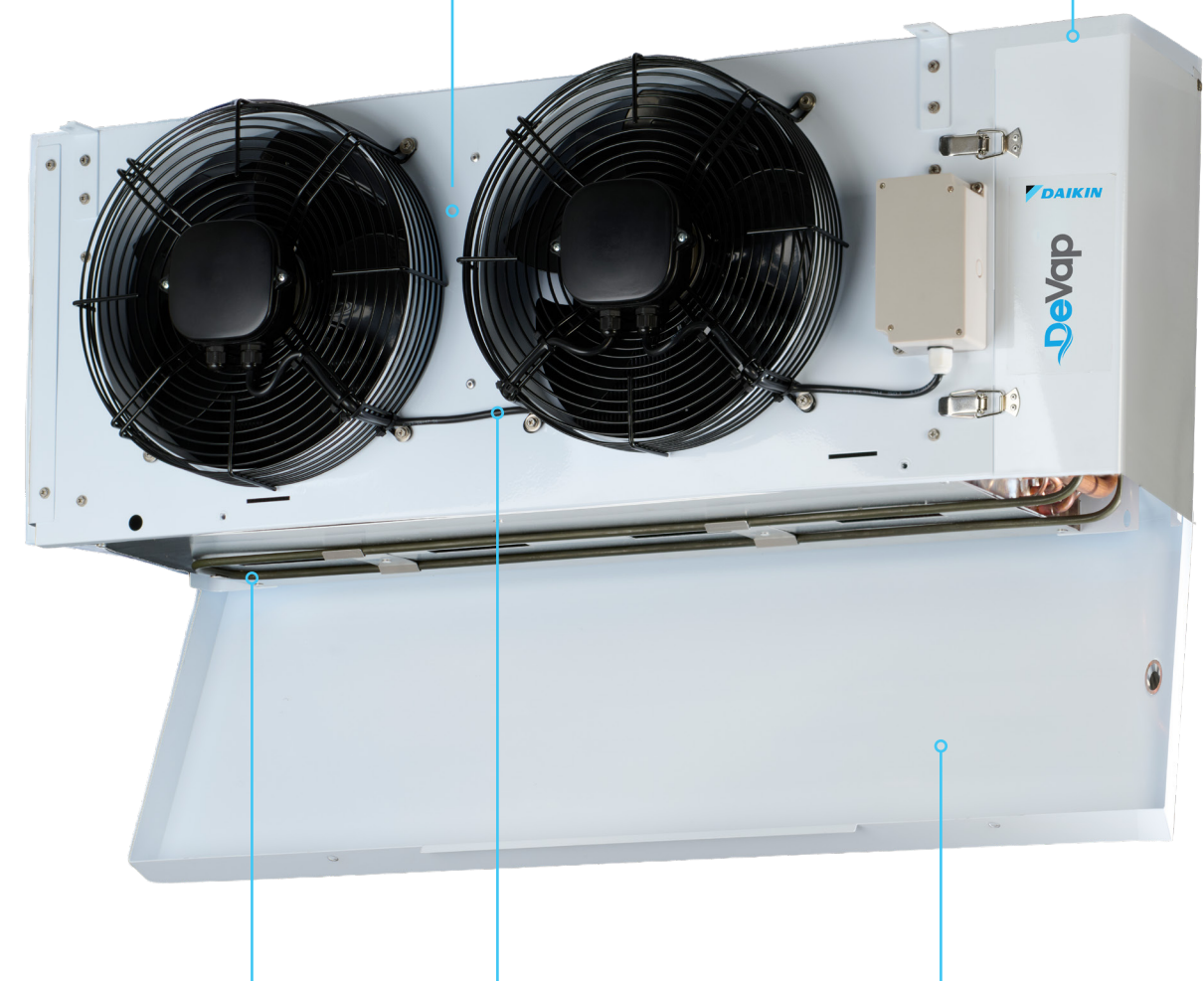
- › Open-rear bracket allows the unit to slide into place for easy adjustment and alignment

### Casing

- › Protective polyester powder-coated aluminium casing for easier handling and long-term durability

### Service Panels

- › Tool-free convenience access with durable SS304 door latch
- › Wide-opening and removable L-shape swing side panel provides more space for refrigeration works
- › Single-side access to both electrical components and refrigeration components



### Electric Defrost Heater<sup>^</sup>

- › Positioned on the lower section for uniform heat distribution across the drain pan
- › LT models equipped with safety thermostat
- › MT models have dedicated heater slots to accommodate an optional electric defrost heater kit

### Fan Wiring

- › Fan cable connections are externally daisy-chained for quick and easy servicing
- › Fan wiring is factory pre-wired and terminated at the electrical box
- › No additional wiring is required during commissioning

### Reversible Drain Pan

- › Reversible design allows installation flexibility and adaptable drainage options
- › Removable hinged design provides convenient access
- › Fitted with safety wire for safe and secure handling during maintenance

<sup>^</sup>Low temperature models only.

Note: TX Valve, solenoid valve and controller are field supplied.

Kindly refer to product specification for the actual specification for each model.

Medium Temperature

Nominal Cooling Capacity

| Models              | Capacity (Watts) |       |       |                              |       |       |
|---------------------|------------------|-------|-------|------------------------------|-------|-------|
|                     | -4°C SST & 6KTD  |       |       | -8°C SST & 8KTD <sup>1</sup> |       |       |
|                     | R404A            | R448A | R134A | R404A                        | R448A | R134A |
| DEM018B1A4V1-A1S(E) | 1807             | 1716  | 1608  | 2421                         | 2252  | 2155  |
| DEM023B1B4V1-A1S(E) | 2331             | 2215  | 2075  | 3124                         | 2905  | 2780  |
| DEM026B2C6V1-A1S(E) | 2583             | 2454  | 2299  | 3461                         | 3219  | 3080  |
| DEM031B2C4V1-A1S(E) | 3087             | 2933  | 2748  | 4137                         | 3847  | 3682  |
| DEM035B2C4V1-A1S(E) | 3503             | 3328  | 3118  | 4694                         | 4365  | 4178  |
| DEM042B2D4V1-A1S(E) | 4240             | 4028  | 3774  | 5682                         | 5284  | 5057  |
| DEM055B3E4V1-A1S(E) | 5486             | 5212  | 4882  | 7351                         | 6836  | 6542  |
| DEM063B3E4V1-A1S(E) | 6250             | 5938  | 5563  | 8375                         | 7789  | 7454  |
| DEM054P2F4V1-A1S(E) | 5409             | 5139  | 4814  | 7248                         | 6741  | 6451  |
| DEM063P2F4V1-A1S(E) | 6331             | 6015  | 5635  | 8484                         | 7890  | 7551  |
| DEM081P3G4V1-A1S(E) | 8054             | 7651  | 7168  | 10792                        | 10037 | 9605  |
| DEM091P3G4V1-A1S(E) | 9064             | 8611  | 8067  | 12146                        | 11296 | 10810 |

Refrigerant Correction Factors (Mid Points Factor)

| Conditions      | Refrigerant Correction Factor |       |       |       |       |       |
|-----------------|-------------------------------|-------|-------|-------|-------|-------|
|                 | R404A                         | R134A | R448A | R449A | R452A | R513A |
| -4°C SST & 6KTD | 1.00                          | 0.89  | 0.95  | 0.95  | 1.02  | 0.95  |
| -8°C SST & 8KTD | 1.00                          | 0.89  | 0.93  | 0.93  | 1.02  | 0.94  |

Capacity Correction Factors

| Conditions      | Evaporating Temperature Correction Factor |      |      |      |      |      |      |
|-----------------|-------------------------------------------|------|------|------|------|------|------|
|                 | -10°C                                     | -8°C | -5°C | -4°C | -0°C | 5°C  | 10°C |
| -4°C SST & 6KTD | 0.91                                      | 0.94 | 0.99 | 1.00 | 1.04 | 1.13 | 1.22 |
| -8°C SST & 8KTD | 0.96                                      | 1.00 | 1.05 | 1.06 | 1.13 | 1.25 | 1.37 |

1. EN328 SC2 Condition (Air Inlet 0 °C, Evap. Temp –8 °C, RH 85%).

Low Temperature

Nominal Cooling Capacity

| Models           | Capacity (Watts) |       |                               |       |
|------------------|------------------|-------|-------------------------------|-------|
|                  | -24°C SST & 6KTD |       | -25°C SST & 7KTD <sup>2</sup> |       |
|                  | R404A            | R448A | R404A                         | R448A |
| DEL016B1A4V1-E1S | 1620             | 1523  | 1752                          | 1664  |
| DEL021B2C6V1-E1S | 2056             | 1933  | 2415                          | 2294  |
| DEL025B2C4V1-E1S | 2450             | 2303  | 2904                          | 2759  |
| DEL030B2D4V1-E1S | 3039             | 2857  | 3711                          | 3525  |
| DEL037B3E6V1-E1S | 3699             | 3477  | 4402                          | 4182  |
| DEL047B3E4V1-E1S | 4728             | 4444  | 5682                          | 5398  |
| DEL044P2F4V1-E1S | 4416             | 4151  | 5122                          | 4866  |
| DEL058P3G6V1-E1S | 5823             | 5473  | 6929                          | 6583  |

Refrigerant Correction Factors (Mid Points Factor)

| Conditions       | Refrigerant Correction Factor |       |       |       |       |
|------------------|-------------------------------|-------|-------|-------|-------|
|                  | R404A                         | R448A | R449A | R452A | R513A |
| -24°C SST & 6KTD | 1.00                          | 0.94  | 0.94  | 1.02  | 0.96  |
| -25°C SST & 7KTD | 1.00                          | 0.95  | 0.95  | 1.02  | 0.96  |

Capacity Correction Factors

| Conditions       | Evaporating Temperature Correction Factor |       |       |       |       |
|------------------|-------------------------------------------|-------|-------|-------|-------|
|                  | -30°C                                     | -25°C | -24°C | -20°C | -15°C |
| -24°C SST & 6KTD | 0.95                                      | 0.99  | 1.00  | 1.05  | 1.13  |
| -25°C SST & 7KTD | 0.98                                      | 1.00  | 1.01  | 1.05  | 1.14  |

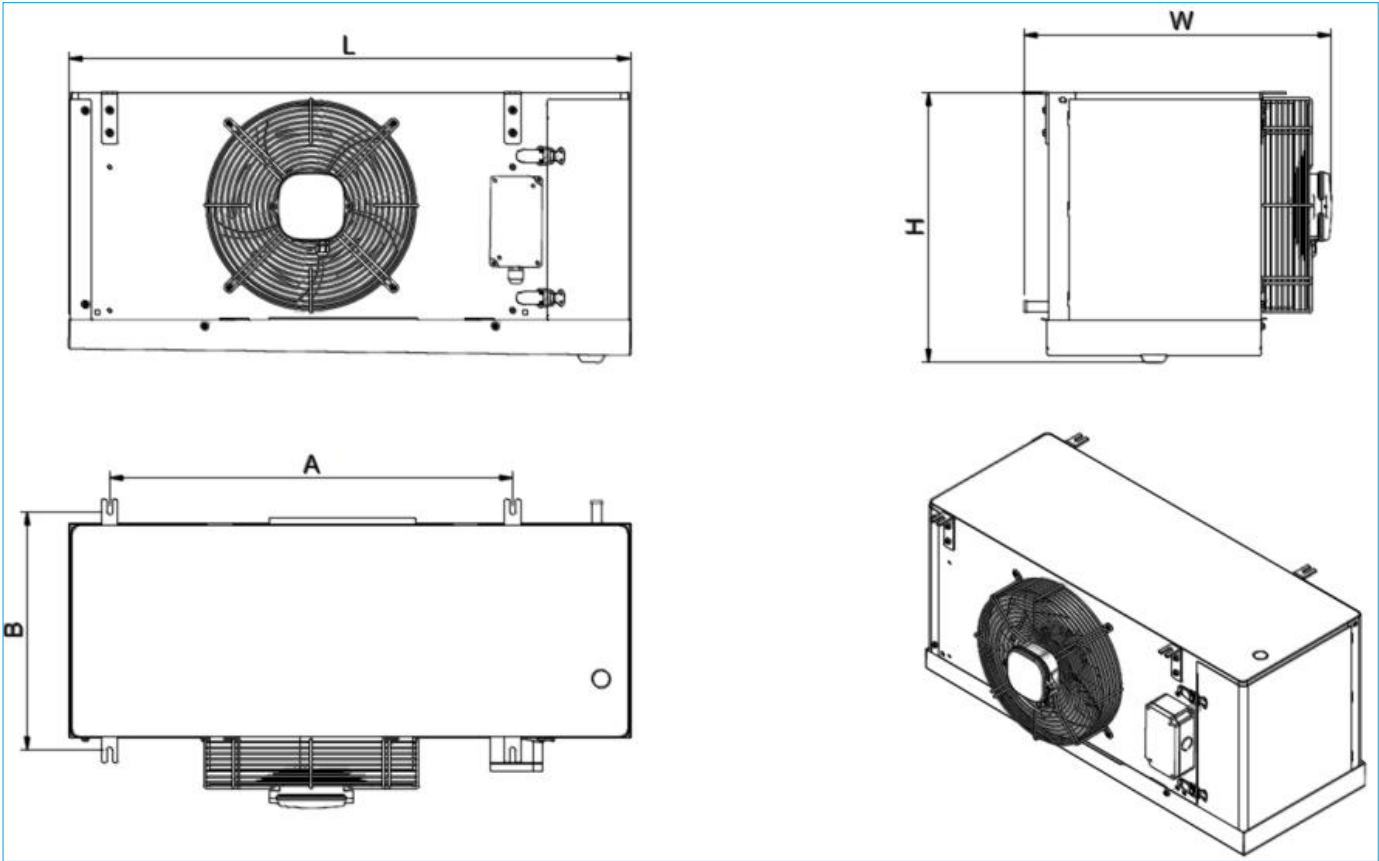
2. EN328 SC3 Condition (Air Inlet –18 °C, Evap. Temp –25 °C, RH 95%).

Technical Specifications

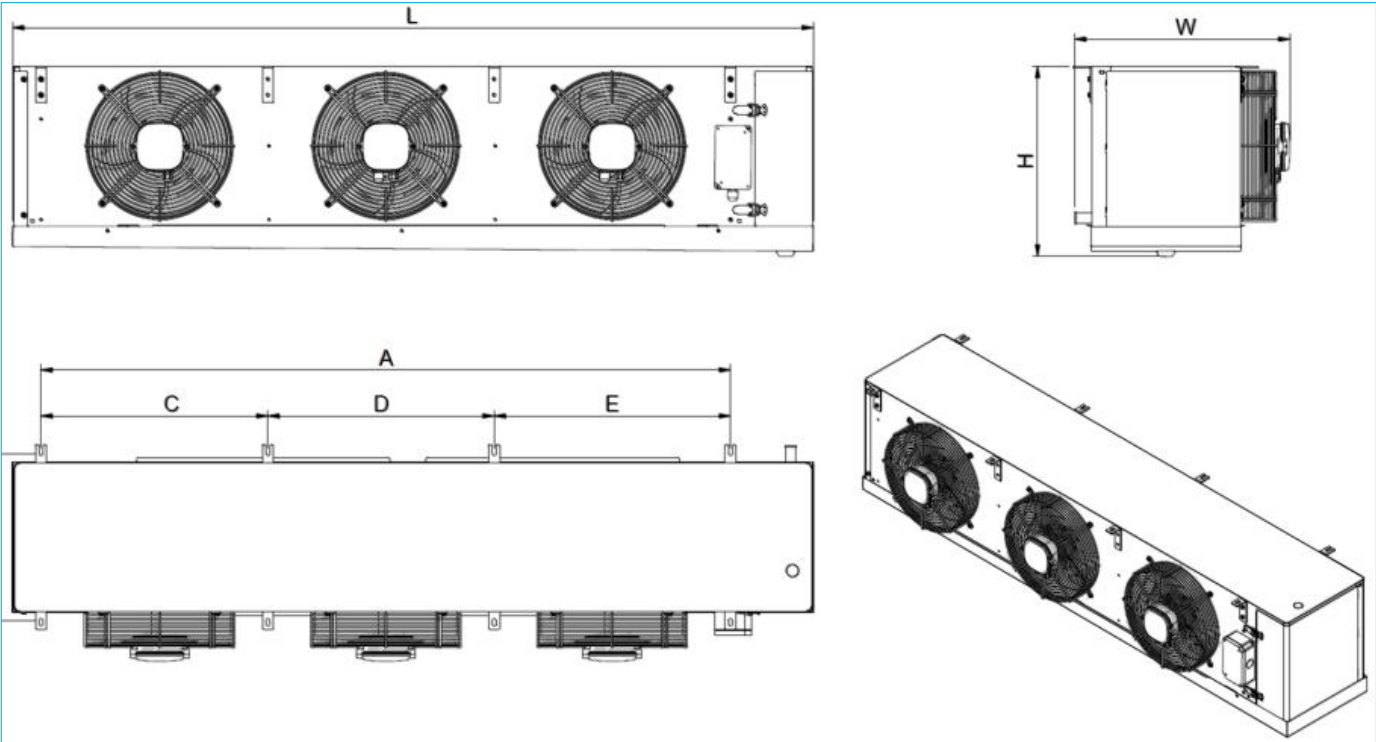
| Models               | General      | Coil        |           | Fan Motors |          |                    |          |                   |       | Heater |                     | Connections (OD) |         |            | Dimensions |      |       |           |     | Unit Dry Weight | Sound Pressure Level @3m* |
|----------------------|--------------|-------------|-----------|------------|----------|--------------------|----------|-------------------|-------|--------|---------------------|------------------|---------|------------|------------|------|-------|-----------|-----|-----------------|---------------------------|
|                      | Power Supply | Fin Spacing | Coil Rows | QTY        | Fan Size | Air Throw Distance | Air Flow | Full Load Current | Power | QTY    | Total Defrost Power | Liquid           | Suction | Drain Pipe | Unit       |      |       | Mountings |     |                 |                           |
|                      | (V/Ph/Hz)    | (FPI)       | (No.)     | (No.)      | (mm)     | (m)                | (m³/h)   | (A)               | (W)   | (No.)  | (W)                 | (inch)           |         |            | W          | D    | H     | W         | D   |                 |                           |
|                      | (mm)         |             |           |            |          |                    |          |                   |       |        |                     |                  |         |            |            | (kg) | dB(A) |           |     |                 |                           |
| DEM018B1A4V1-A1S(E)  | 230/1/50     | 6           | 5         | 1          | 300      | 6                  | 1420     | 0.46              | 101   | -      | -                   | 1/2              | 5/8     | 1          | 690        | 476  | 415   | 444       | 377 | 15              | 46                        |
| DEM023B1B4V1-A1S(E)  | 230/1/50     | 6           | 5         | 1          | 300      | 7                  | 1520     | 0.46              | 101   | -      | -                   | 1/2              | 5/8     | 1          | 870        | 476  | 415   | 624       | 377 | 18              | 46                        |
| DEM026B2C6V1-A1S(E)  | 230/1/50     | 4           | 4         | 2          | 300      | 6                  | 2670     | 0.92              | 202   | -      | -                   | 1/2              | 3/4     | 1          | 1070       | 476  | 415   | 824       | 377 | 24              | 46                        |
| DEM031B2C4V1-A1S(E)  | 230/1/50     | 6           | 4         | 2          | 300      | 6                  | 2570     | 0.92              | 202   | -      | -                   | 1/2              | 3/4     | 1          | 1070       | 476  | 415   | 824       | 377 | 23              | 48                        |
| DEM035B2C4V1-A1S(E)  | 230/1/50     | 6           | 5         | 2          | 300      | 6                  | 2470     | 0.92              | 202   | -      | -                   | 1/2              | 3/4     | 1          | 1070       | 476  | 415   | 824       | 377 | 25              | 48                        |
| DEM042B2D4V1-A1S(E)  | 230/1/50     | 6           | 5         | 2          | 300      | 8                  | 3000     | 0.92              | 202   | -      | -                   | 1/2              | 3/4     | 1          | 1320       | 476  | 415   | 1074      | 377 | 30              | 48                        |
| DEM055B3E4V1-A1S(E)  | 230/1/50     | 6           | 4         | 3          | 300      | 8                  | 4300     | 1.38              | 303   | -      | -                   | 1/2              | 7/8     | 1          | 1770       | 476  | 415   | 1524      | 377 | 40              | 51                        |
| DEM063B3E4V1-A1S (E) | 230/1/50     | 6           | 5         | 3          | 300      | 8                  | 4150     | 1.38              | 303   | -      | -                   | 1/2              | 7/8     | 1          | 1770       | 476  | 415   | 1524      | 377 | 42              | 51                        |
| DEM054P2F4V1-A1S(E)  | 230/1/50     | 6           | 4         | 2          | 350      | 9                  | 4200     | 1.37              | 302   | -      | -                   | 5/8              | 7/8     | 1          | 1520       | 510  | 517   | 1249      | 407 | 33              | 52                        |
| DEM063P2F4V1-A1S(E)  | 230/1/50     | 6           | 5         | 2          | 350      | 9                  | 4100     | 1.37              | 302   | -      | -                   | 5/8              | 7/8     | 1          | 1520       | 510  | 517   | 1249      | 407 | 34              | 52                        |
| DEM081P3G4V1-A1S(E)  | 230/1/50     | 6           | 4         | 3          | 350      | 9                  | 6300     | 1.81              | 400   | -      | -                   | 5/8              | 1       | 1          | 2045       | 510  | 517   | 1774      | 407 | 58              | 55                        |
| DEM091P3G4V1-A1S(E)  | 230/1/50     | 6           | 5         | 3          | 350      | 9                  | 6450     | 1.81              | 400   | -      | -                   | 5/8              | 1       | 1          | 2045       | 510  | 517   | 1774      | 407 | 60              | 55                        |
| DEL016B1A4V1-E1S(E)  | 230/1/50     | 6           | 5         | 1          | 300      | 6                  | 1420     | 0.46              | 101   | 3      | 1200                | 1/2              | 5/8     | 1          | 690        | 476  | 415   | 444       | 377 | 16              | 46                        |
| DEL021B2C6V1-E1S(E)  | 230/1/50     | 4           | 5         | 2          | 300      | 6                  | 2670     | 0.92              | 202   | 3      | 2400                | 1/2              | 3/4     | 1          | 1070       | 476  | 415   | 824       | 377 | 25              | 48                        |
| DEL025B2C4V1-E1S(E)  | 230/1/50     | 6           | 4         | 2          | 300      | 6                  | 2570     | 0.92              | 202   | 3      | 2400                | 1/2              | 3/4     | 1          | 1070       | 476  | 415   | 824       | 377 | 24              | 48                        |
| DEL030B2D4V1-E1S(E)  | 230/1/50     | 6           | 5         | 2          | 300      | 8                  | 3000     | 0.92              | 202   | 3      | 2800                | 1/2              | 3/4     | 1          | 1320       | 476  | 415   | 1074      | 377 | 32              | 48                        |
| DEL037B3E6V1-E1S(E)  | 230/1/50     | 4           | 4         | 3          | 300      | 9                  | 4600     | 1.38              | 303   | 3      | 3800                | 1/2              | 7/8     | 1          | 1770       | 476  | 415   | 1524      | 377 | 40              | 51                        |
| DEL047B3E4V1-E1S(E)  | 230/1/50     | 6           | 5         | 3          | 300      | 8                  | 4150     | 1.38              | 303   | 3      | 3800                | 1/2              | 7/8     | 1          | 1770       | 476  | 415   | 1524      | 377 | 43              | 51                        |
| DEL044P2F4V1-E1S(E)  | 230/1/50     | 6           | 4         | 2          | 350      | 9                  | 4200     | 1.37              | 302   | 3      | 4200                | 5/8              | 7/8     | 1          | 1520       | 510  | 517   | 1249      | 407 | 40              | 52                        |
| DEL058P3G6V1-E1S(E)  | 230/1/50     | 4           | 5         | 3          | 350      | 9                  | 6450     | 1.81              | 400   | 3      | 5400                | 5/8              | 1       | 1          | 2045       | 510  | 517   | 1774      | 407 | 61              | 55                        |

\* Air throw distance is declared based on a final air velocity of 0.25m/s, dry coil condition.  
^Models fitted with the EVD-ICE are identified by an "E" at the end of the model name, for example DEM018B1A4V1-A1E

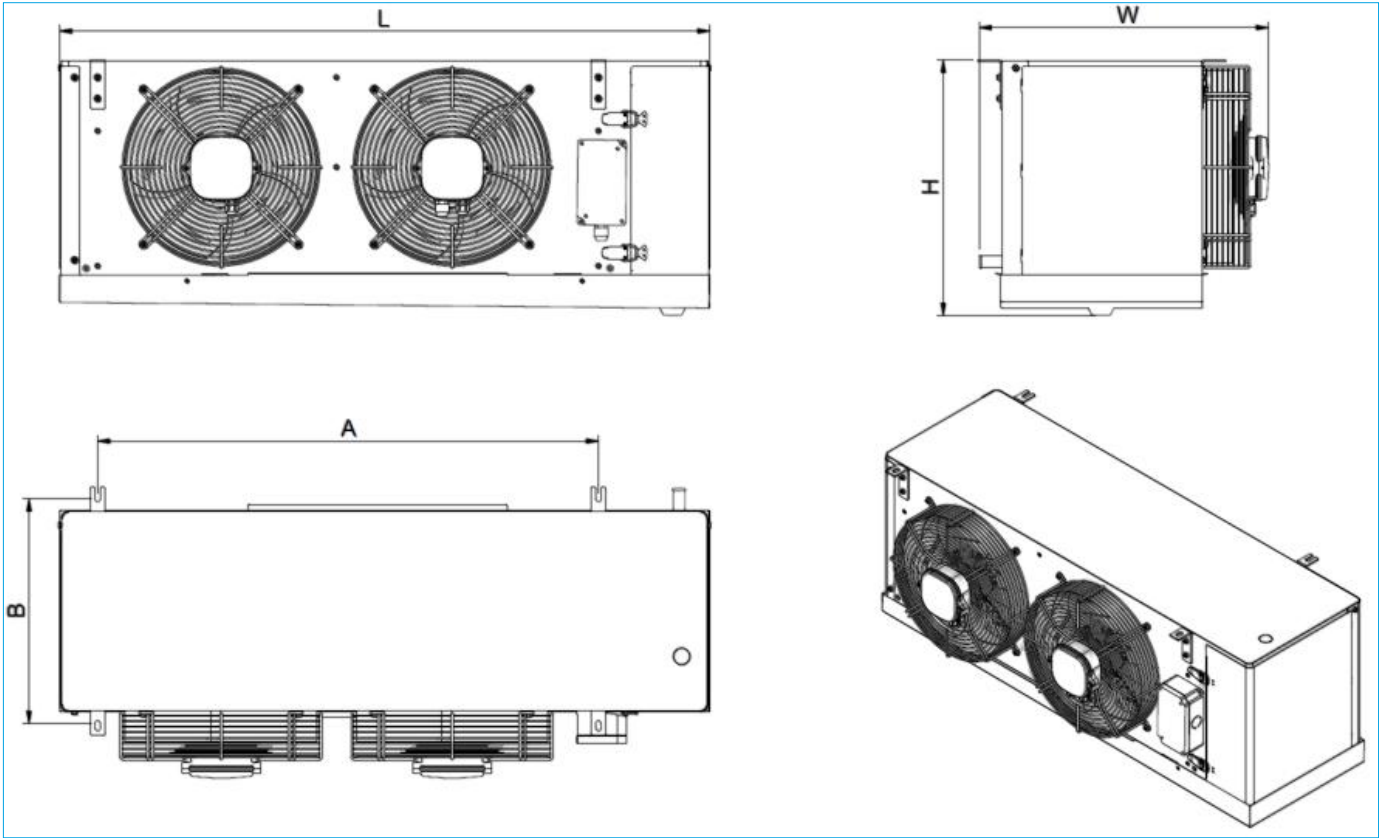
Casing A & B



Casing E & G



Casing C & D & F



Outline Drawing Table

| Casing | Fan       |     | Dimensions (mm) |     |     |     |     |      |     |     |
|--------|-----------|-----|-----------------|-----|-----|-----|-----|------|-----|-----|
|        | Size (mm) | Qty | A               | B   | C   | D   | E   | L    | W   | H   |
| A      | 300       | 1   | 444             | 377 | -   | -   | -   | 690  | 476 | 415 |
| B      |           |     | 624             | 377 | -   | -   | -   | 870  | 476 | 415 |
| C      |           | 2   | 824             | 377 | -   | -   | -   | 1070 | 476 | 415 |
| D      |           |     | 1074            | 377 | -   | -   | -   | 1320 | 476 | 415 |
| E      | 350       | 3   | 1524            | 377 | 502 | 500 | 523 | 1770 | 476 | 415 |
| F      |           | 2   | 1249            | 407 | -   | -   | -   | 1520 | 510 | 517 |
| G      |           | 3   | 1774            | 407 | 584 | 584 | 606 | 2045 | 510 | 517 |

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## ASSUMPTIONS

All representations made in Daikin marketing and promotional material are based on the assumptions that the correct equipment has been selected, appropriately sized and installed in accordance with Daikin's installation instructions and standard industry practices.

## QUALITY CERTIFICATIONS

Daikin Industries Limited was the first air conditioning equipment manufacturer in Japan to receive ISO 9001 certification. All Daikin manufacturing facilities have been certified to ISO 9001 Quality Management System requirements. ISO 9001 is a certificate for quality assurance concerning 'design, development, manufacturing, installation and related service' of products manufactured at that factory.

### Residential Air Conditioning

Manufacturing Div (ISO 9001)  
JQA-0486 May 2, 1994  
(Shiga Plant)

### Commercial Air Conditioning and Refrigeration

Manufacturing Div (ISO 9001)  
JMI0107 December 28, 1992  
(Kanaoka Factory and Rinkai Factory at Sakai Plant)

### Daikin Refrigeration Malaysia Sdn. Bhd.

Manufacturing Div (ISO 9001)  
JMI0107 December 28, 1992  
(Banting Plant)

## ENVIRONMENTAL CERTIFICATIONS

Daikin Industries Limited has received ISO 14001 Environmental Certification for the Daikin production facilities listed below. ISO 14001 is an international standard specifying requirement for an environmental management system, enabling an organisation to formulate policy and objectives, taking into account legislative requirements and information about significant environmental impacts. It applies to those environmental aspects within the organisation's control and over which it can be expected to have an influence.

The certification relates only to the environmental management system and does not constitute any endorsement of the products shipped from the facility by the International Organisation for Standardisation.

Head Office / Tokyo Office

Shiga Plant (Japan)

Sakai Plant (Japan)

Daikin Industries Ltd (Thailand)

Yodogawa Plant (Japan)

Daikin Australia Pty. Ltd.

Certificate number: EC02J0355

Certificate number: EC99J2044

Certificate number: JQA-E-80009

Certificate number: JQA-E-90108

Certificate number: EC99J2057

Certificate number: CEM20437

### Daikin Australia Pty Limited (ISO 9001)

QEC 23256  
May 12, 2006  
Sydney, Brisbane, Adelaide, Melbourne, Newcastle, Townsville, Perth



### Daikin Australia Pty Limited (ISO 45001)

OHS 20939 17  
February 2021  
Sydney



### Daikin Australia Pty Limited (ISO 14001)

CEM 20437  
October 27, 2006  
Sydney, Brisbane, Adelaide, Melbourne, Perth



### Industrial System and Chiller Products Manufacturing Div (ISO 9001)

JQA-0495 May 16, 1994  
(Yodogawa Plant and Kanaoka Factory and Kishiwada Factory)

### Daikin Europe N.V (ISO 9001)

Lloyd 928589.1 June 2, 1993

### Daikin Industries (Thailand) Ltd

JQA-1452 September 13, 2002  
(ISO 9001)



## CONTACT



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For Customer Service or Technical Support, call: 1300 368 300

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Refrigeration Range



PCCREAU1123