

# 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 maximised 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 service port 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 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

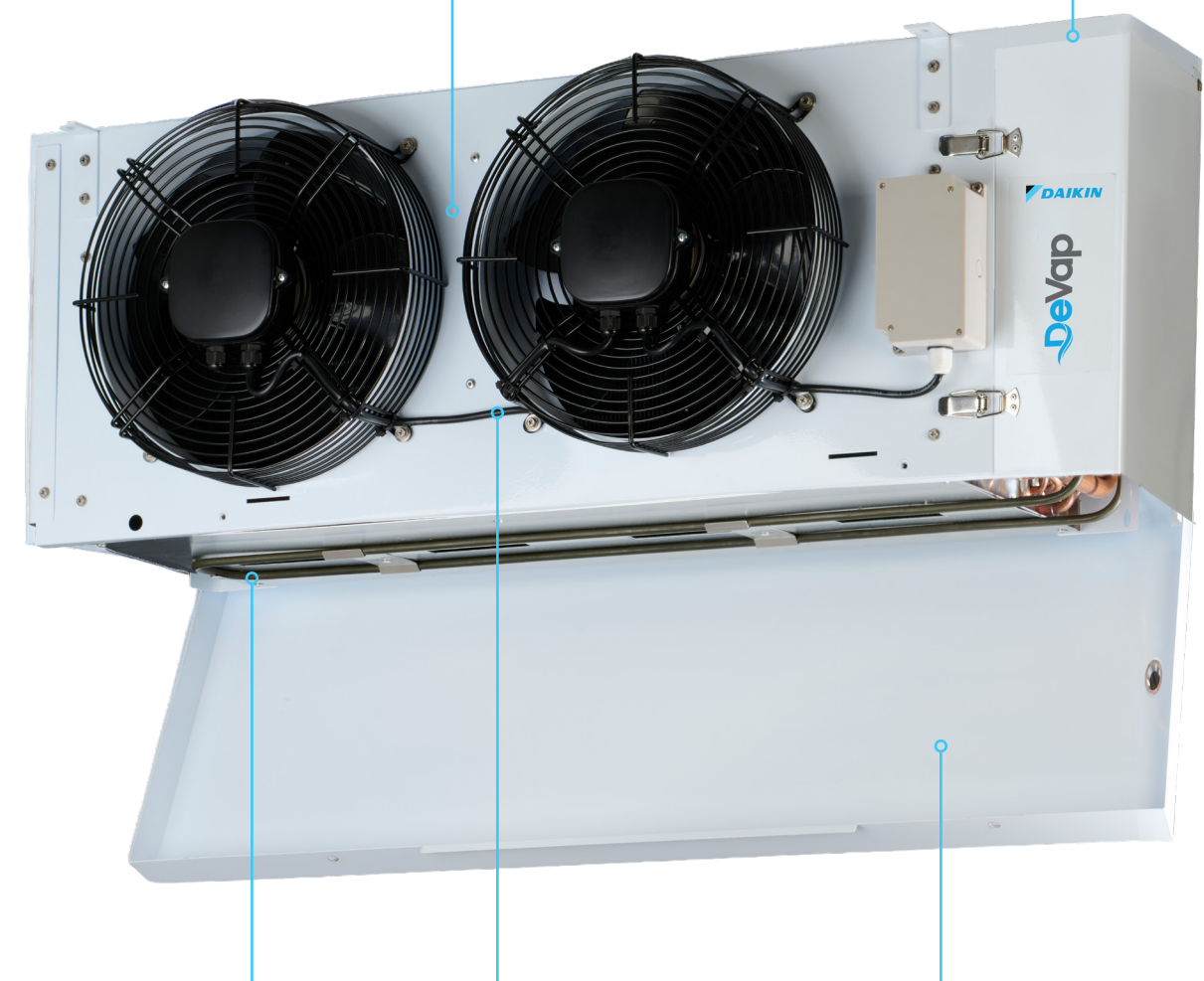
- › Open-rear bracket allows the unit to slide into place for easy adjustment and alignment

### Casing

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

### Service Panels

- › Tool-free convenience access with durable SS304 pull-down 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 piping



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

- › Positioned on the lower section for uniform heat distribution across the drain pan
- › 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%).

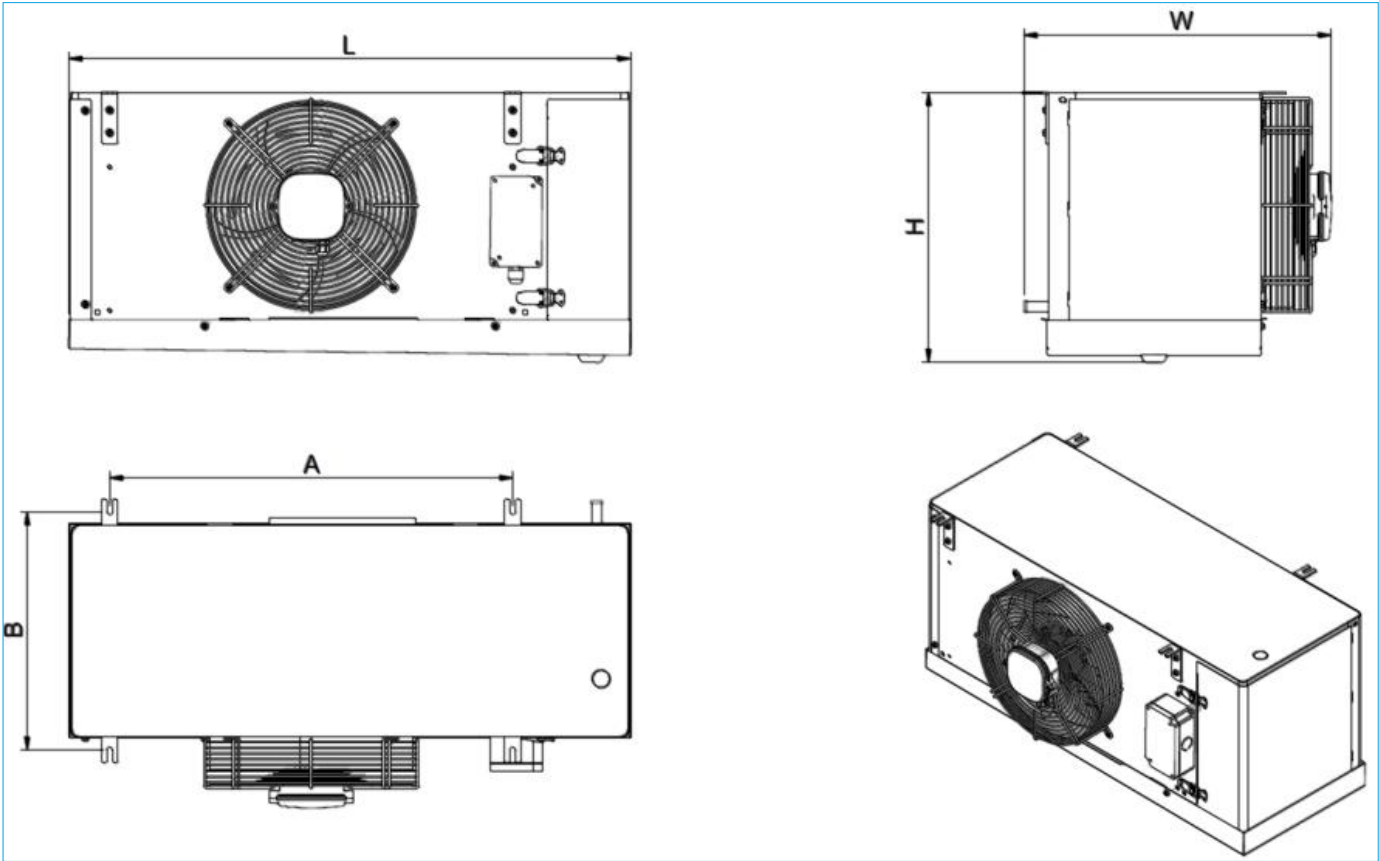
Technical Specifications

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

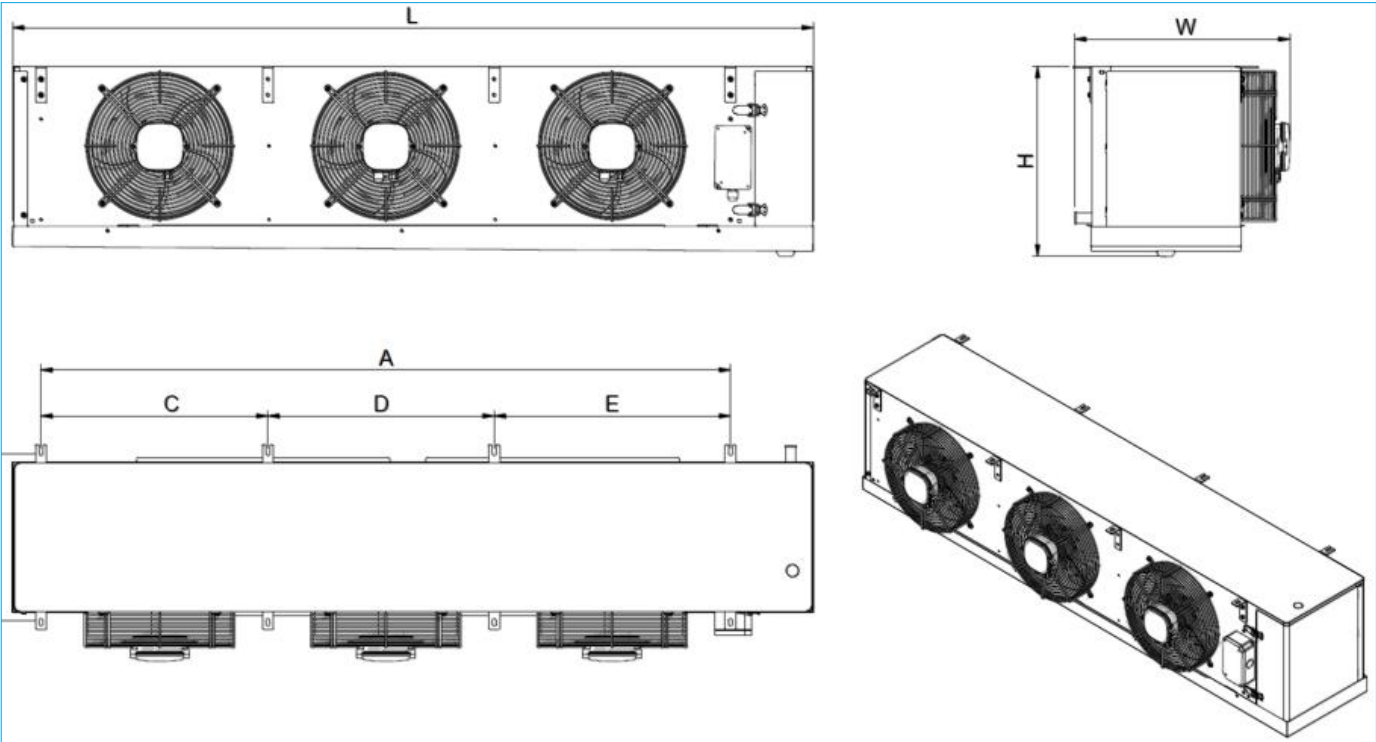
\* Air throw distance is declared based on a final air velocity of 0.25m/s, dry coil condition.  
^Models fitted with the EVD-ICE are identified by an "E" at the end of the model name, for example DEM018B1A4V1-A1E



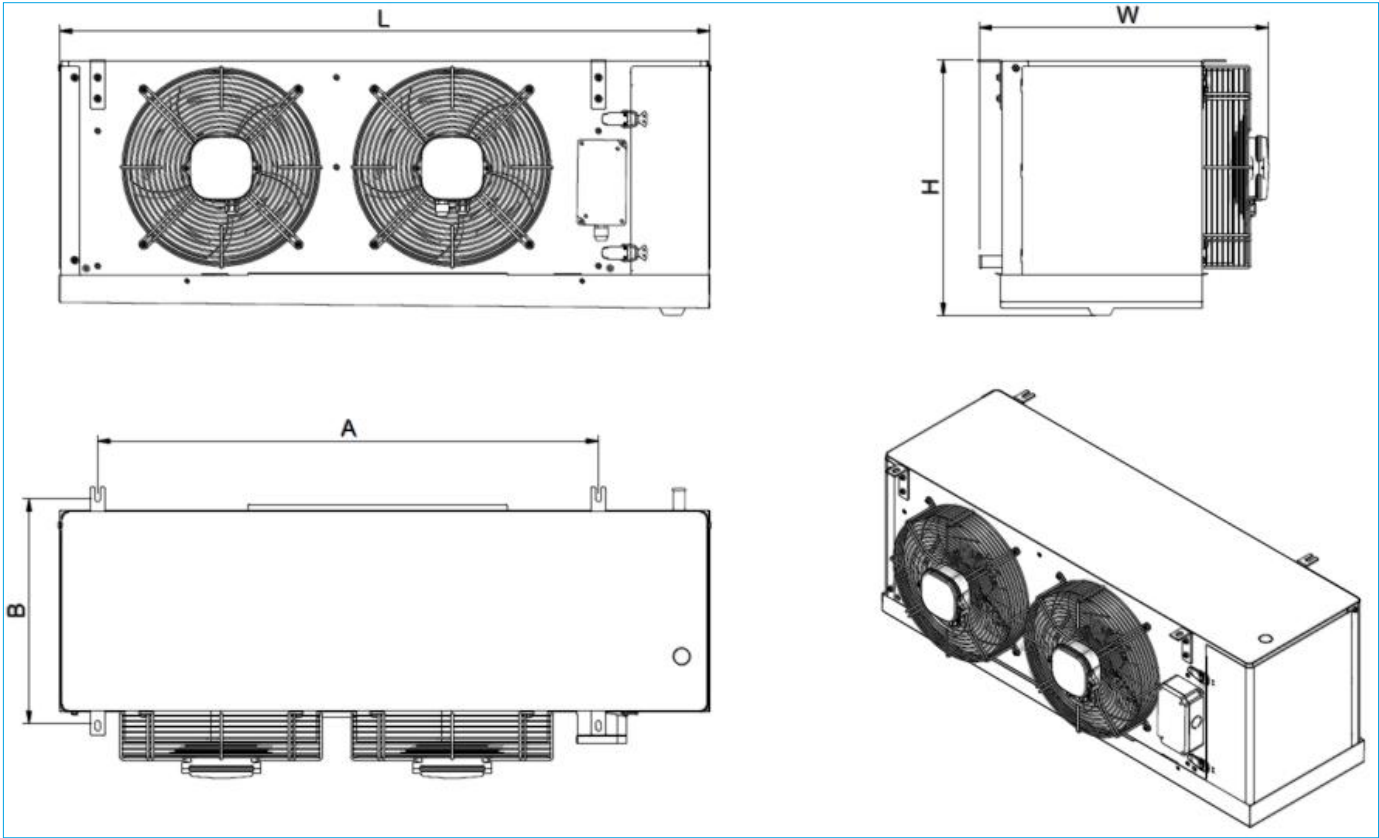
Casing A & B



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