

Altherma Mono-Bloc

Hydronic heating
and cooling system



The secret to consistent, controllable comfort

There's nothing better than walking into a warm and cozy home during the colder months. While many conventional air conditioning systems provide effective heating, it can often be challenging to maintain a steady temperature, particularly in large areas such as living rooms. In addition, they may create draughts and potentially dry out the air inside the home.

One of the most energy efficient and environmentally friendly ways of achieving even, radiant and draught-free heat is to install a hydronic heating system. Rather than heating and blowing hot air through your home, a hydronic heating system heats the liquid in its system, distributes it through tubes, and radiates the heat evenly.



Choose Daikin Altherma for optimal comfort

Daikin Altherma is a highly flexible, energy efficient home heating system that connects to a range of common heat emitters such as underfloor heating systems, radiators and fan coil units. Available in heating only or reverse cycle

(heating and cooling) options, and ideal for installation in new home builds as well as during renovations, Altherma creates the optimal temperature for you and your family.

Benefits you can feel



Efficient heating

Altherma utilises free heat from the ambient air to maintain ideal comfort conditions in your home. In addition, the inverter technology inherent in Altherma means your energy savings are even greater.



Safe

Altherma works without the need for oil, flammable gas (LPG, Natural) or other hazardous substances thus reducing the potential risks that these fuels can create. Furthermore, there is no need for a gas connection or a fuel tank.



R32 refrigerant

R32 refrigerant, used in the heat transfer process, is the next generation in refrigerants with 66% lower 'Global Warming Potential Factor' than R410A, providing less risk of harm to the environment.



Flexible connection

Compatibility with a range of third party fan coils, radiators and underfloor heat emitters ensures the optimal solution can be tailored to your home.



Powerful operation

Even in the coldest weather, the Altherma system is still able to extract heat energy from the ambient air. In the event there is insufficient heat in the outdoor air, Altherma is equipped with a back up heater to cover the shortfall.



Zone control

System controller offers the ability to control the individual water temperature of up to two zones or emitters - ideal for meeting the varying cooling or heating needs of occupants.

Why Daikin?

1

Market Leader

Daikin is the global No. 1 in air conditioning. We have been delivering effective and innovative climate control for Australian homes for over 50 years.

2

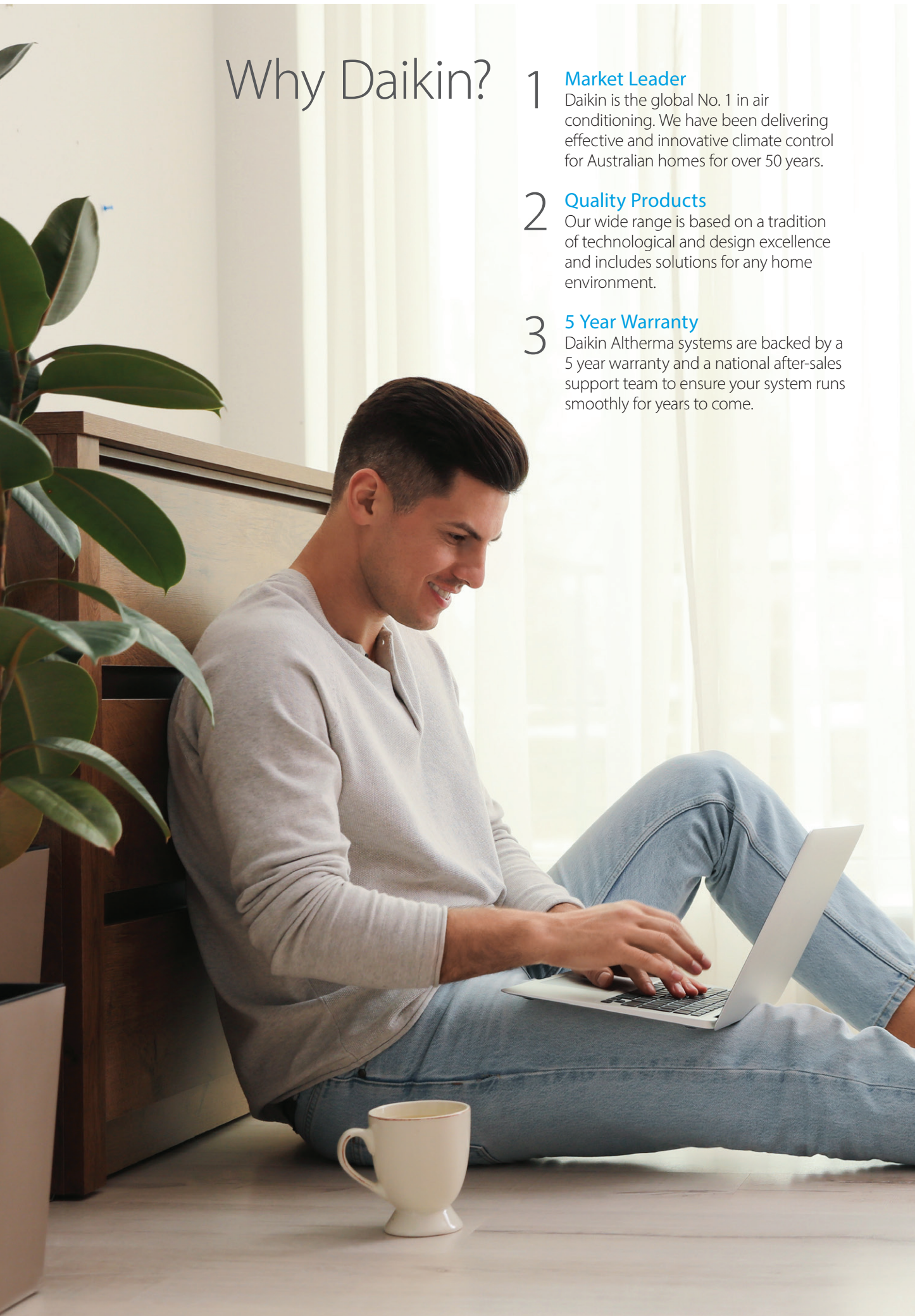
Quality Products

Our wide range is based on a tradition of technological and design excellence and includes solutions for any home environment.

3

5 Year Warranty

Daikin Altherma systems are backed by a 5 year warranty and a national after-sales support team to ensure your system runs smoothly for years to come.



Altherma system components

A compact outdoor unit extracts heat energy from the ambient air, raises this heat to a higher temperature and then distributes this warmth throughout your home through heat emitters.

With our new R32 based refrigeration cycle, this highly efficient process requires only 1 kilowatt of electrical energy to release in excess of 4 kilowatts of heat into your home.

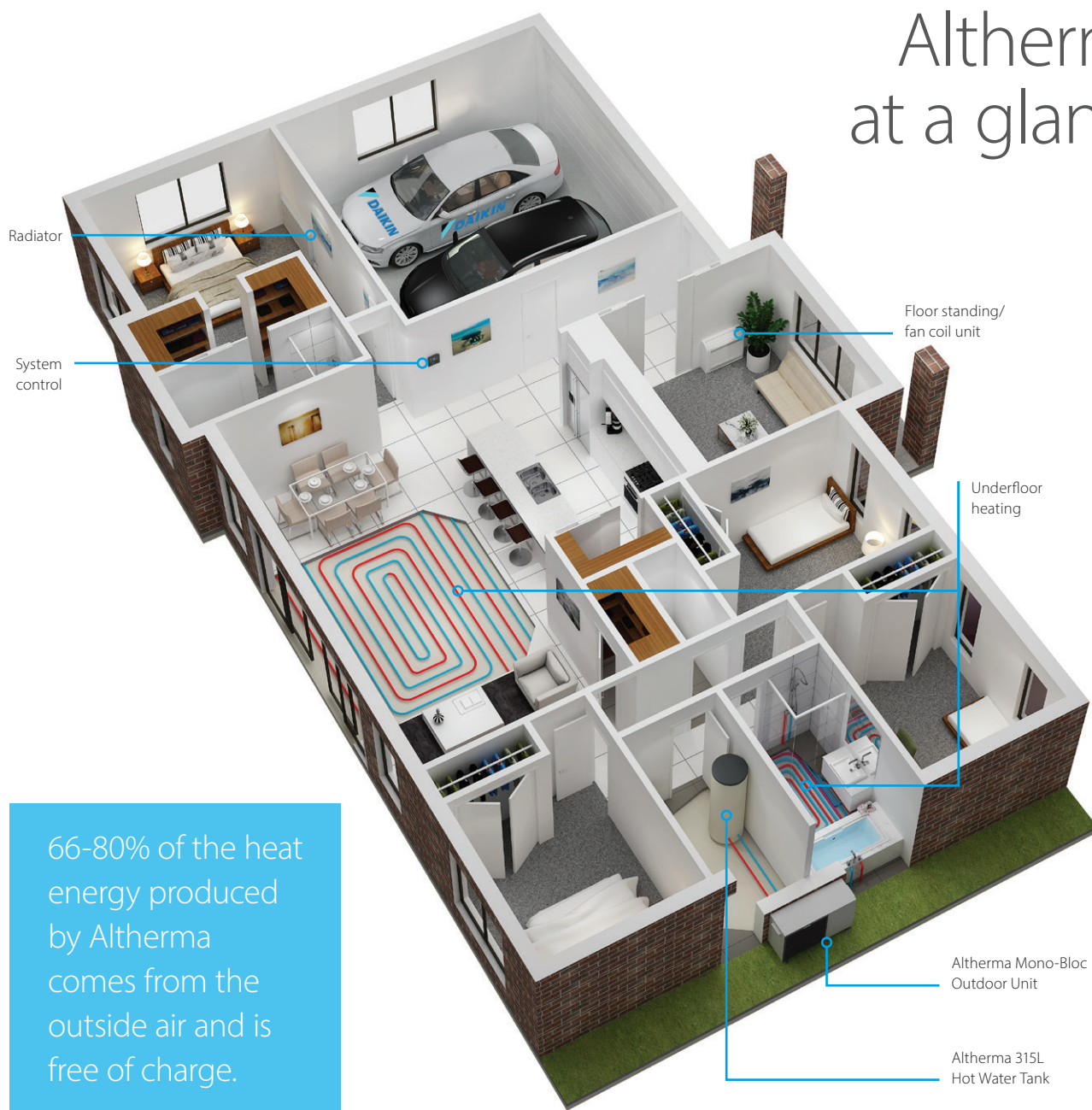
To cool the home, the reverse cycle option extracts heat from inside the home and releases it outside.

An optional domestic hot water tank can be integrated into the system to satisfy the home's hot water needs making Daikin Altherma a total home heating solution.

Finally, the wired system controller offers many useful features including the ability to control the individual water temperature of up to two zones or emitters - ideal for meeting the varying cooling or heating needs of occupants.



Altherma at a glance





Compatible heat emitters

The Altherma system works seamlessly with a wide range of common heat emitters including:

- › **Underfloor heating circuits** - one of the most efficient and comfortable heat emitters, ideal for open-plan concepts and large areas such as living rooms.
- › **Fan coil units** - easy-to-install units that provide both heating and cooling if required.
- › **Radiators** - a more traditional and cost-effective heating solution, often wall-mounted.

Heat emitters are supplied separately. Your Daikin Specialist Dealer will help you select the ideal Altherma system and heat emitter combination for your home.

Specifications

		Heating Only				Reverse Cycle			
Indoor Unit (Hydro Box)		-				-			
Outdoor Unit		EDLA09DA3V3	EDLA11DA3V3	EDLA14DA3V3	EDLA16DA3V3	EBLA09DA3V3	EBLA11DA3V3	EBLA14DA3V3	EBLA16DA3V3
Rated Capacity	Heat (kW)	9.37	10.60	12.00	16.00	9.37	10.60	12.00	16.00
	Cool (kW)	-				9.1	11.50	12.70	15.30
Rated Input	Heat (kW)	1.91	2.18	2.46	3.53	1.91	2.18	2.46	3.53
	Cool (kW)	-				1.71	2.17	2.51	3.24
Leaving water temperature range	Heat (°C)	15 to 60				15 to 60			
	Cool (°C)	-				5 to 22			
Casing Material	Indoor (mm)	-				-			
	Outdoor (mm)	Painted Galvanised Steel Plate				Painted Galvanised Steel Plate			
Colour	Indoor	-				-			
	Outdoor	Light Grey (Black Grille)				Light Grey (Black Grille)			
Electric booster heater (kW)		3				3			
COP (Heating Efficiency)		4.91	4.86	4.88	4.53	4.91	4.86	4.88	4.53
EER (Cooling Efficiency)		-				5.32	5.30	5.06	4.72
Dimensions (HxWxD)	Indoor (mm)	-				-			
	Outdoor (mm)	870x1380x460				870x1380x460			
Weight	Indoor (kg)	-				-			
	Outdoor (kg)	149				149			
Outdoor operation range	Heat (°C)	-25 to 35				-25 to 35			
	Cool (°C)	-				10 to 43			
Refrigerant charge	R32 (kg)	3.8				3.8			
Power supply		1 Phase, 230V, 50Hz				1 Phase, 230V, 50Hz			
Indoor sound pressure level	(dBA)	-				-			
Outdoor EPA sound power level	Heat (dBA)	62	62	62	62	62	62	62	62

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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)

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	Certificate number: EC02J0355
Shiga Plant (Japan)	Certificate number: EC99J2044
Sakai Plant (Japan)	Certificate number: JQA-E-80009
Daikin Industries Ltd (Thailand)	Certificate number: JQA-E-90108
Yodogawa Plant (Japan)	Certificate number: EC99J2057
Daikin Australia Pty. Ltd.	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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