



THE ULTIMATE  
**HEATING +  
COOLING**  
GUIDE

This guide will provide easy-to understand explanations of everything you need to know to ensure you get the reverse cycle air conditioning system that's right for you!



## HERE'S HOW:

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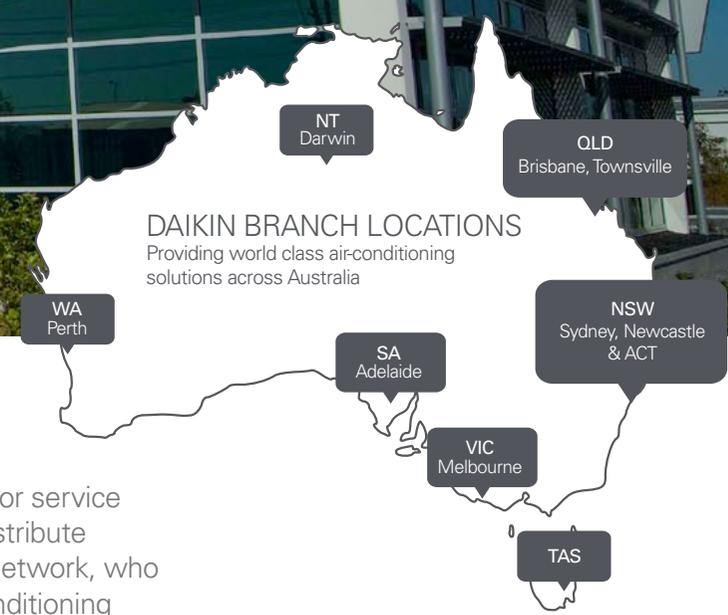


## INTRODUCING THE AIR CONDITIONING SPECIALIST

Daikin's recognised as an expert in air conditioning. As specialists, air conditioning is all we do. In fact, we are the only company in the world to make both air conditioners and refrigerants which enables us to deliver the best air conditioning solutions that are world leading in performance, quality and reliability.

### MARKET LEADER

As one of Australia's most trusted names in air conditioning, Daikin can be found in homes, offices, hotels and shops across Australia and around the world.



### NATIONAL COVERAGE

Daikin Australia has 10 branches and 6 major service centres nationwide. Daikin continues to distribute products through our 450+ strong dealer network, who will assess, plan and install the right air conditioning solution for your home.

### LOCAL MANUFACTURING SITE

Since 1982, Daikin Australia has manufactured ducted indoor units designed specifically for Australian climates, right here in Australia, resulting in quicker turnaround times, reduced supply chain cost and the creation of hundreds of jobs for Australians. Expansion of the factory is in progress, showing our commitment to make a beneficial contribution to the Australian workforce.

# 02

## THE BASIC PRINCIPLE OF REVERSE CYCLE AIR CONDITIONING

Reverse cycle air conditioners are one of the most efficient forms of heating and cooling your home using electricity. These air conditioners use a refrigeration cycle to transfer heat in or out of the home. In summer, the heat is absorbed from inside your home and exhausted outside leaving your home cooler. In winter, heat is absorbed from the outside air and used to heat your home.

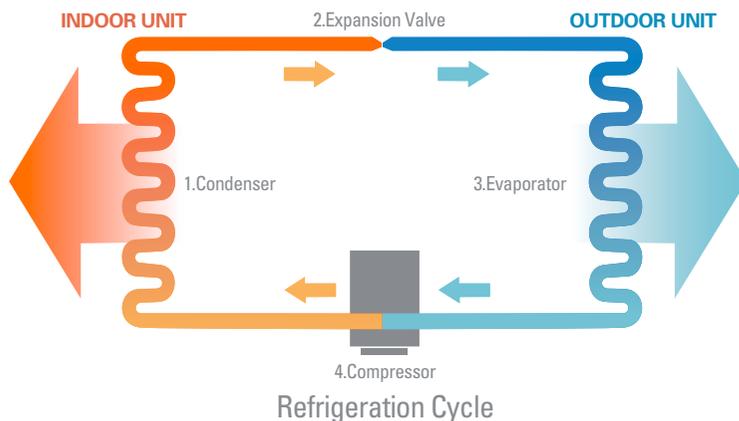
To make this happen there's an indoor and outdoor unit, both of which need to be professionally installed by a Daikin Specialist Dealer.



### WARM IN WINTER

Heat is absorbed from the outdoor air to warm your home inside. Even when it gets down to 0° there is still warmth in the air that can be utilised.

### HOW IT WORKS



### COOL IN SUMMER

Heat is absorbed from inside and exhausted outside leaving your home cooler.

# 03

## THE VALUE OF A PROFESSIONAL INSTALLATION

Without expert advice and professional installation, your air conditioner may be too big or too small in capacity for the job. If you choose a model that is under capacity or too small, you may not achieve the desired comfort levels in the room. On the other hand, choosing a model that's too large for your space will increase power bills unnecessarily.

That's why it is very important to seek expert advice when buying an air conditioner. A Daikin Specialist Dealer is the best place to start. They will take the time and effort to ensure you choose the right air conditioner for your individual needs.



They'll also show you how to operate the unit to ensure your comfort levels are maximised and create a perfect environment for your home.

Your Daikin Specialist Dealer will ensure that whatever you select is correctly positioned and professionally installed, so it works efficiently.



## THE 'INS AND OUTS' OF NOISE LEVELS

It's very important to consider the noise level of a reverse cycle air conditioning unit whether it is inside or outside your home.

Not all air conditioners are the same. Different split system air conditioners have different noise levels. The indoor unit noise levels of a modern split system are whisper quiet when operating at low speeds. However, at higher speeds, some are noticeably quieter than others.

The noise level of the outdoor unit should also be considered in urban areas where neighbours live in close proximity, or where the unit is located near an outdoor entertaining area.



Also in certain areas, due to local government regulations, outdoor units must conform to allowable noise levels.

Make sure the reverse cycle air conditioning system you choose provides an ultimate comfort level for you and your neighbours.

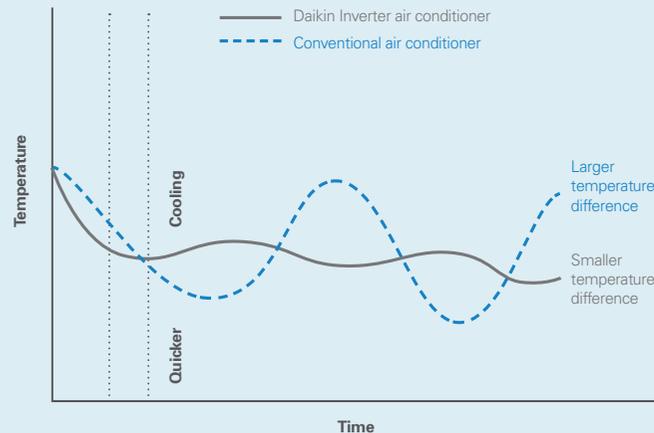
For your own comfort and peace of mind, it's important that you compare the noise levels of different reverse cycle air conditioning systems and find out what distance the noise level readings are taken from. However, remember that there are different noise levels at different airflow levels. So to get an accurate comparison, make sure you speak to a Daikin Specialist Dealer.

# 05

## THE IMPORTANCE OF ENERGY EFFICIENCY

Some forms of heating are more efficient than others. The more efficient they are, the less energy they use during operation.

Daikin reverse cycle air conditioners are one of the most efficient forms of heating and cooling.



### INVERTER TECHNOLOGY

Conventional air conditioners operate at a fixed speed, delivering a fixed amount of cooling and heating. They try to maintain a set temperature using a 'stop/start' principle.

Inverter air conditioners have more advanced technology and operate quite differently. An inverter works like the accelerator of a car, gently increasing or decreasing power. They reach the desired temperature faster, and steadily maintain it without fluctuations. That means uninterrupted comfort and significant savings on running costs.

### UNDERSTANDING MEPS

Minimum Energy Performance Standards (MEPS) specify the minimum level of energy performance that appliances, lighting and electrical equipment (products) must meet or exceed before they can be offered for sale or used for commercial purposes. These products must meet a number of legal requirements and are subject to rigorous product assessments to achieve a high energy rating label. For consumers, MEPS means that products available in the market use less energy and have lower running costs over their lifetime.

For more information, visit [www.energyrating.gov.au/suppliers/legislation](http://www.energyrating.gov.au/suppliers/legislation)

Not all air conditioners have the same energy rating. Energy ratings, like the star system, are calculated by taking the amount of energy put out by the air conditioner and dividing it by the amount of energy it takes in. Simply put, this rates the energy efficiency of the reverse cycle air conditioning system.

Daikin has a full range of MEPS compliant split and ducted reverse cycle air conditioning systems. This means they comply with the Minimum Energy Performance Standards stipulated by the government.

Make sure you compare the energy levels of different reverse cycle air conditioning systems, but remember there are different energy levels at different heating and cooling outputs.

So make sure you speak to a Daikin Specialist Dealer to get a fair comparison.



# 06

## EFFICIENT OPERATION IN EXTREME CONDITIONS

When climatic conditions are extreme is when you need your air conditioner the most. So when it's really cold, you're warm and when it's unbearably hot, you're comfortably cool.

Daikin inverter models are very reliable when temperatures are extreme. Even when temperatures soar as high as 46°C (cooling) or fall as low as -10°C (heating), Daikin's inverter air conditioners are guaranteed to operate in these extreme conditions.



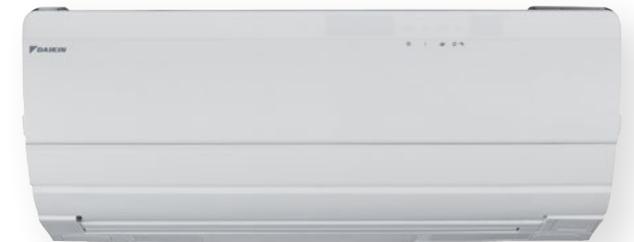


## STAR ENERGY RATING

Energy Rating Labels can actually work as a handy tool to help you make smarter purchasing decisions. When it comes to split system air conditioning, the model you choose will come down to a range of factors, including the climate you live in, your budget, and the size of the space you're trying to heat and cool. We recommend seeking assistance from one of our Daikin Specialist Dealers who can help you assess, plan and install the right unit for your needs.

Most products out there are rated between 1 and 6 stars, but as technology is improving, so too is energy efficiency. Daikin US7 split system (FTX25N) leads the way with a 'super efficiency rating' of 7 stars!

For more information, download the Daikin Split System brochure from [daikin.com.au](http://daikin.com.au) or refer to [www.energyrating.gov.au](http://www.energyrating.gov.au)



# 08

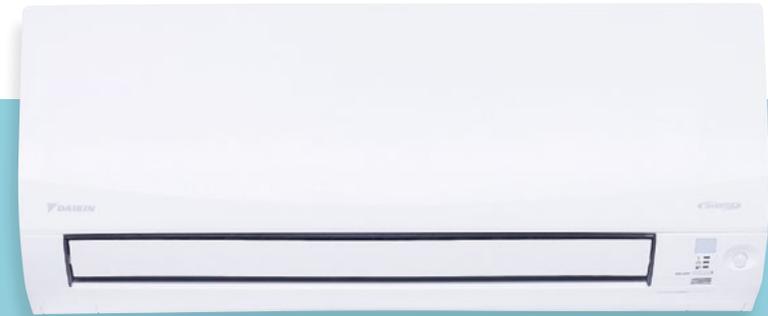
## PURIFYING THE AIR

Australia has one of the highest rates of asthma in the world, and high levels of seasonal hay fever and other allergies. This makes an air-purifying capability an important consideration when purchasing an air conditioner.

Reverse cycle air conditioning not only cools or warms your home, it can also purify the air inside it.

A quality air conditioner should have a built in air-purifying filter that traps fine airborne particles (e.g. smoke particles). Some air conditioners have air-purifying filters that trap microscopic particles, decompose odours and even absorb and deactivate bacteria and viruses.

Thanks to the market leading air purification technology, Daikin is the only split system air conditioner authorised by the National Asthma Council Australia to display the Sensitive Choice butterfly symbol.



## A SENSITIVE CHOICE.

### ADVANCED FILTERS

Daikin Split System air conditioners have advanced air-purifying filters that may help to reduce some of the triggers that affect asthma and allergy sufferers and help to provide a cleaner and healthier indoor environment.

### DOUBLE ACTION

In addition to the standard air purifying filter, most of our split systems are also fitted with a more advanced Titanium Apatite Deodorising Air-Purifying filter. These filters not only trap microscopic airborne particles, but also deactivate bacteria and viruses.

### DOUBLY SURE

To get professional advice and the split system that's right for your home, talk to a Daikin Specialist Dealer. This ensures a quality installation, all backed up by Daikin's 5-year warranty.

# 09

## CHOOSING THE RIGHT SYSTEM FOR YOUR HOME

The type of reverse cycle air conditioning your home requires will depend upon different factors such as the size of the room or your home, its location and your specific needs to name just a few. To see what system is best for you, seek expert advice from a Daikin Specialist Dealer. Here is a brief outline of the different systems available and where they might be ideally suited.



### SPLIT

Split system air conditioners have an outdoor unit connected to an indoor unit by copper pipes and wiring.

The indoor unit is either wall mounted, under ceiling mounted or is a floor standing model. Each indoor unit has electronic controls, a heat exchanger and a fan that circulates either warm or cool air. Split systems are ideal for those wanting to air condition one room or an area of their home.



### MULTI-SPLIT

A multi-split system can air condition multiple rooms with the outdoor unit connecting to multiple indoor units.

Multi-split systems are ideal where there is limited space for a number of outdoor units or insufficient space for ducting.

They also allow individual temperature control in each room.



### DUCTED

With a ducted system, the indoor unit is concealed out of sight, in your ceiling or under the floor, with flexible ducting distributing air through vents located throughout the home. An outdoor unit is positioned in a discreet location outside the home.

Ducted systems can be designed to operate in two or more zones, so they can be heated or cooled at different times depending on the season.

# 10

## COMPREHENSIVE WARRANTY



When you're looking for an air conditioner, it is advisable to look for a brand that has a comprehensive warranty on parts and labour. Daikin has a 5 Year Parts and Labour Warranty on all air conditioners and reverse cycle air conditioning systems purchased and installed in Australia.

In the unlikely event of unit malfunction, Daikin has an established service department, including an in-house call centre, spare parts division and technical support centre for all technical enquiries, ensuring prompt after sales support for all our customers.

# 11

## YOUR CHECKLIST

Now that you've read this guide, you should have a basic understanding of all the 'ins and outs' of reverse cycle air conditioning. Everything from the basic principles of reverse cycle air conditioning to the different types of units and systems available, how they work as well as how to gauge their energy efficiency. To help you assess what reverse cycle air conditioning system best meets your needs, there is a checklist included below.

### MAKE YOUR OWN COMPARISON, USE THE CHECKLIST BELOW

- Energy Efficiency/MEPS/Star Rating /Low cost to run
- Low interior and external noise levels
- Inverter Technology
- Air Purification and Sensitive Choice approval
- Reverse cycle air conditioning – heating and cooling operation in extreme conditions
- Professional installation by a Daikin Specialist Dealer
- 5 year warranty on parts and labour reliability

### FOR MORE INFORMATION

If you have any questions or would like more information on any aspect of reverse cycle air conditioning, talk to your local Daikin Specialist Dealer.

Go to [www.daikin.com.au/request-quote](http://www.daikin.com.au/request-quote)



For all commercial enquiries email:  
[sales@daikin.com.au](mailto:sales@daikin.com.au)

For customer service or  
technical support please call:  
**1300 368 300**





The specifications, designs and information in this brochure are subject to change without notice. Unit colours shown are as close as possible to actual unit colours. Colours depicted in this brochure may vary slightly.

### 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)**  
JOA-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)

**Industrial System and Chiller  
Products Manufacturing Div  
(ISO 9001)**  
JOA-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**  
JOA-1452 September 13, 2002  
(ISO 9001)



**Daikin Australia Pty Limited  
(ISO 9001)**  
OEC 23256 May 12, 2006  
Sydney, Brisbane, Adelaide,  
Melbourne, Newcastle,  
Townsville, Perth



**Daikin Australia Pty Limited  
(ISO 14001)**  
CEM 20437 October 27, 2006  
Sydney, Brisbane, Adelaide,  
Melbourne, Perth



### 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: JOA-E-80009  
Certificate number: JOA-E-90108  
Certificate number: EC99J2057  
Certificate number: CEM20437

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