



**DUCTED HEATING  
AND COOLING SOLUTIONS  
FROM DAIKIN**

Whole house comfort for your home

# The **Daikin** Story...



## WE SPECIALISE IN COMFORT

As a world leader in air conditioning and Japan's largest air conditioning manufacturer, you can trust Daikin to control temperature, airflow and air quality in virtually any environment. From homes to high rises, from hospitals to hotels, Daikin has an air conditioning solution that provides superior comfort.

With operations around the globe, Daikin has invested more than 80 years and billions of dollars in research and development in the fields of mechanics, electronics and chemistry to develop air conditioning products that are energy efficient, quiet, simple to use and reliable. Today, Daikin continues to develop technologies that provide superior comfort and energy efficiency for your home.

## DAIKIN AUSTRALIA

Daikin Australia only cares about one thing – ultimate comfort for you and your family – because Daikin only does one thing, air conditioning. Our focus is on bringing climate-controlled comfort to places where people live, work, meet and relax.

Founded in 1969, Daikin Australia has been providing air conditioned comfort for homes, commercial developments and community projects across Australia and New Zealand for over 40 years. Today, Daikin is Australia's largest air conditioning company and manufactures the indoor units\* that go into Daikin ducted air conditioners right here in Australia, operating a state-of-the-art manufacturing facility in Sydney's South West.

## A PARTNER YOU CAN RELY ON

Daikin Australia's network of over 450 Specialist Dealers across Australia and New Zealand are ready to help you assess, plan and install the ideal air conditioning solution for your home. Daikin has been a global force in air conditioning for more than 80 years and with over 44,000 employees worldwide, Daikin stays at the cutting edge of technology with one single goal – to provide you with ultimate comfort through air conditioning.

## LOCAL AFTER SALES SUPPORT

Daikin Australia has an established Service Department including an in house call centre, spare parts division and support centre for all technical enquiries, ensuring prompt after sales support for all Daikin customers. Daikin Specialist Dealers and installers receive thorough training and education, so they're qualified to deliver first-class support – from your initial consultation through to after sales enquiries.



*\*With the exception of the FDXS Series.*



# Whole house **comfort** for your home...

## DUCTED AIR CONDITIONING EXPLAINED

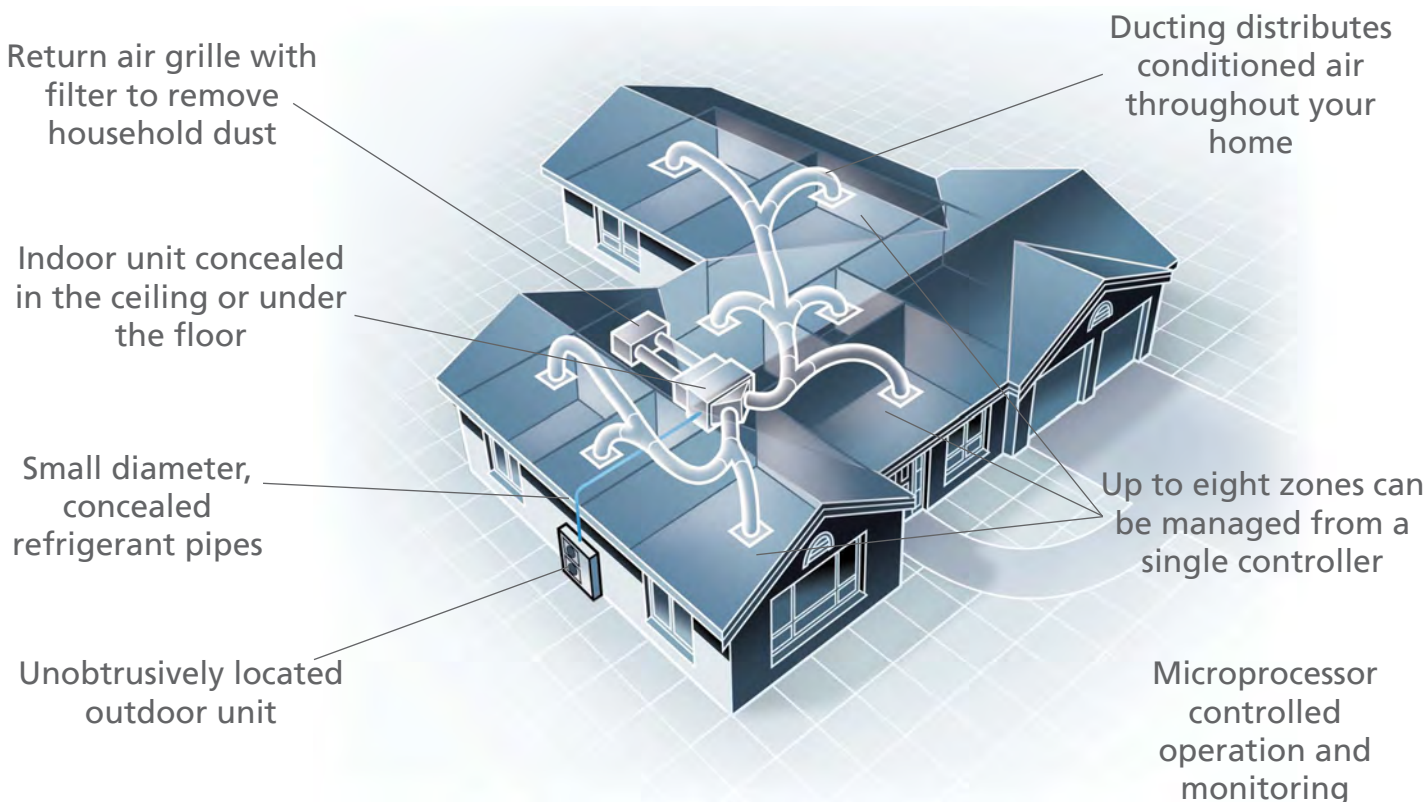
A Daikin ducted system provides discreet air conditioned comfort throughout your entire home. It can be installed in a new home or tailored to suit an existing one, and once installed, only the controller, and suction and discharge grilles are visible inside your home.

A Daikin ducted air conditioner consists of an indoor and outdoor unit and flexible ducting. The indoor unit is concealed out of sight in your ceiling or under the floor, with flexible ducting distributing conditioned air through vents located throughout your home. An outdoor unit is positioned in a discreet location outside your home.

## FLEXIBLE AND DISCREET...TO SUIT YOUR NEEDS

Daikin ducted air conditioning gives you the flexibility to heat or cool every room in your home. Your home can be 'zoned' to maximise energy efficiency and customise your air conditioner's operation to suit your lifestyle – and how you 'zone' your home is completely up to you. For example, you may want the bedrooms in zone one, the living areas in zone two and so on. The position of discharge grilles can also be tailored to suit the shape of each room, for optimum air circulation.

## DAIKIN DUCTED AIR – AT A GLANCE

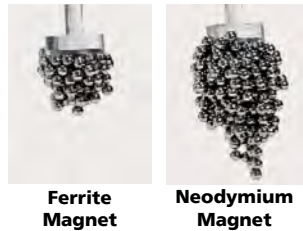


# TECHNOLOGY THAT *energy*



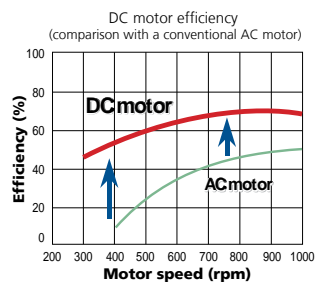
## RELUCTANCE DC MOTORS

Daikin's Reluctance DC motor uses powerful neodymium magnets that are 10 times stronger than conventional ferrite magnets, delivering more torque from a compact design.



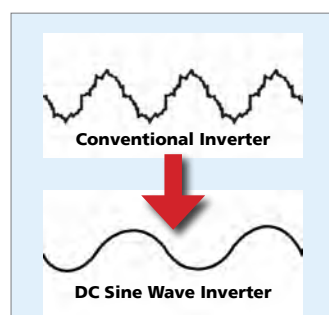
## DC FAN MOTOR

Daikin indoor units are equipped with a variable speed high efficiency DC fan motor. By utilising high power permanent magnets instead of the induced magnetism of conventional AC motors, Daikin's DC motor can deliver significantly higher motor efficiency. The DC motor control system can also be set to one of fifteen different fan speed ranges to allow your installer to precisely match the airflow to your ducting configuration.



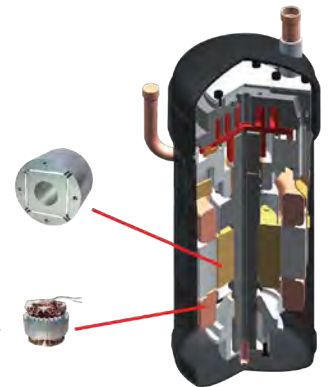
## DC SINE WAVE INVERTER

Daikin outdoor units now feature DC Sine Wave Inverter Technology, for smoother motor rotation, resulting in both lower operating noise levels and improved energy efficiency.



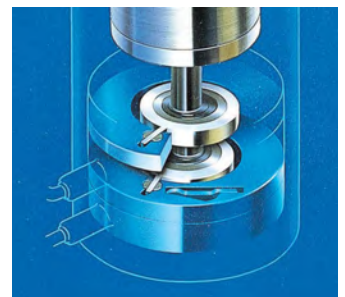
## SCROLL COMPRESSOR

Daikin's Scroll Compressors are quieter and more efficient than conventional compressors thanks to their high pressure dome construction, minimising heat loss and the use of high pressure lubrication oil, reducing thrust losses. Combined, these features result in improved efficiency and reduced operating noise levels.



## SWING COMPRESSOR

In contrast to a rotary compressor, the smooth operation of Daikin's patented swing compressor reduces frictional losses, improving both the efficiency of the compression process and overall system reliability.



Swing compressors also suppress vibration, resulting in a more durable, more efficient and quieter compressor.

\* Not all features available on all models – Please refer to checklist on page 9

# DELIVERS *comfort* AND *efficiency* FOR YOUR HOME

FOR OVER 80 YEARS, DAIKIN HAS INVESTED HEAVILY IN RESEARCH AND DEVELOPMENT, WITH THE SOLE AIM OF DELIVERING MORE EFFECTIVE CLIMATE CONTROL FOR YOU AND YOUR FAMILY.

DAIKIN TECHNOLOGIES HELP MAKE DAIKIN AIR CONDITIONERS MORE ENERGY EFFICIENT, POWERFUL, DURABLE AND EASY TO USE.

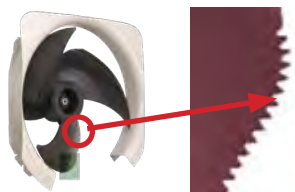
## NEO AERO SPIRAL FAN

Daikin used air flow analysis techniques developed by NASA to design the Neo Aero Spiral Fan. Unique to Daikin, the Neo Aero Spiral Fan blade tips are shaped to reduce air turbulence across the surface of the fan, for quieter, more efficient operation.



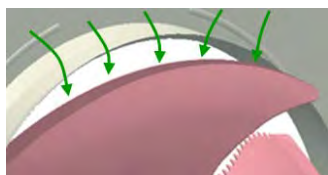
## SAW EDGE FAN BLADE

Developed to further enhance the efficiency of Daikin's fan blades, a saw edge indentation at the rear of the blade smooths air flow over the blade surface, reducing turbulence which in turn reduces energy loss and operating noise levels.



## SMOOTH BELL MOUTH AIR INLET

Complementing the quiet efficiency of Daikin's Neo Aero Spiral Fan is an efficient bell mouthed air inlet. Incorporating air guides to minimize intake turbulence, the bell mouth design reduces operating noise and improves air flow for more efficient operation.



## SUPER AERO GRILLES

Daikin's Super Aero Grilles have also been designed for high air flow volume. Aero grilles not only look good, but help make your air conditioner efficient and reduce operating noise levels.

## PREDICTED MEAN VOTE (PMV) CONTROL

In automatic mode, Predicted Mean Vote control measures indoor and outdoor temperatures to calculate the ideal room temperature. As conditions change throughout the day, PMV Control gently adjusts your room temperature, maintaining an optimum balance between efficiency and comfort.

## CROSS-PASS HEAT EXCHANGER

Daikin's Cross-Pass Heat Exchanger crosses refrigerant flows from two directions, reducing temperature hot-spots for more efficient operation and enhanced performance compared to single pass heat exchangers.

## SYNCHRONOUS TECHNOLOGY

Daikin ducted air conditioners are designed by Daikin from the ground up. Unlike some other air conditioners made with "off the shelf" components from a variety of different suppliers, Daikin air conditioners use only Daikin compressors, heat exchangers, electronics, radial fans and other components specifically designed by Daikin Engineers to work in perfect harmony.

# The Daikin Inverter difference

Daikin inverter air conditioners are more powerful, and more energy efficient than conventional, non-inverter models.

Unlike conventional air conditioners which operate at a fixed speed, constantly starting and stopping the compressor to control room temperature, a Daikin inverter continuously adjusts the power to suit the temperature in the room for a more comfortable, energy efficient home.

## COMFORT

An air conditioning system with an inverter continuously adjusts its heating and cooling output in response to temperature changes in the room.

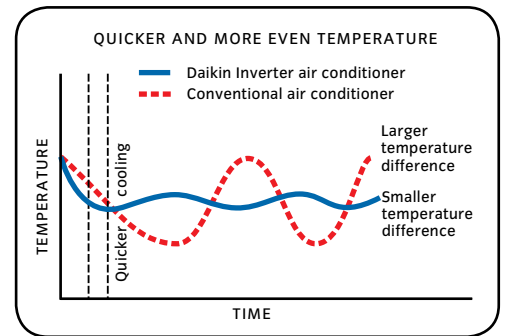
Once your ideal temperature is reached, a Daikin Inverter continuously adjusts its power output to ensure that it is constantly maintained, without the large temperature fluctuations of a non-inverter system.

A Daikin Premium Inverter also reduces system start-up time when compared to conventional, or even standard inverter air conditioners, so your optimum comfort levels are achieved more quickly.

## ENERGY EFFICIENCY

With traditional non-inverter air conditioners, the compressor's speed is fixed, so it must cycle on and off to control capacity and room temperature, wasting energy returning the system to operating conditions.

A Daikin Inverter constantly adjusts its capacity, smoothly and efficiently maintaining an even temperature and enabling it to deliver substantial energy savings over non-inverter air conditioners.



## PREMIUM INVERTER

Daikin's Premium Inverter can comfortably operate across a wide range of power outputs, continually adjusting its cooling or heating capacity to suit the temperature in your home.

A Daikin Premium Inverter's advanced technology means it is also more powerful, so your desired room temperature is achieved more quickly than with conventional air conditioners. Daikin's Premium Inverter ensures that as the set temperature is achieved, it is constantly maintained, allowing your unit to operate optimally at all times and minimising energy consumption.

Daikin's Premium Inverter range also allows a generous piping run of up to 75 metres between indoor and outdoor units for many models, giving you a great deal of flexibility in locating the outdoor unit.

On the heating cycle, the wider operating range allows your Daikin Premium Inverter to perform even at extremely low ambient temperatures down to -15°C.

## STANDARD INVERTER

Daikin's Standard Inverter, whilst still providing the benefits of inverter technology, has a reduced range of capacity outputs when compared to a Premium Inverter. A Standard Inverter may potentially take a little longer to achieve your desired room temperature, but once it reaches the desired level, the system uses its limited inverter technology to steadily maintain your optimal temperature setting.

Further, the Standard Inverter has a reduced maximum piping length between indoor and outdoor units and a restricted heating range compared to Premium Inverter models.

SUPERIOR

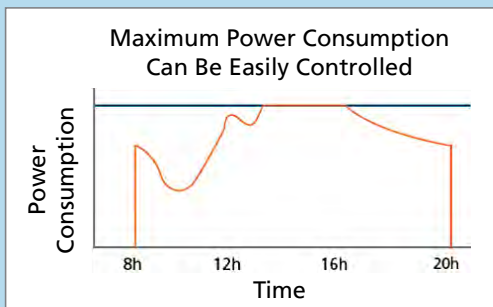
# *comfort* CAN ALSO BE **ENERGY EFFICIENT**

## DEMAND RESPONSE CAPABLE

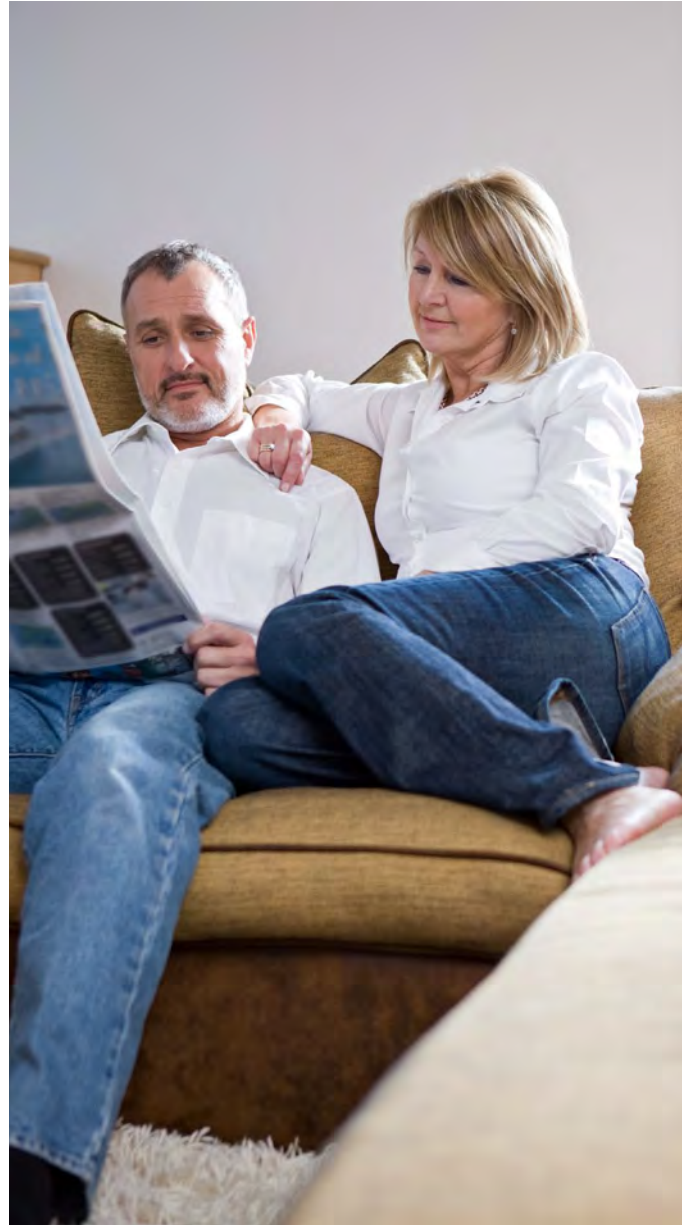
All medium and large Daikin ducted air conditioners are potentially Demand Response capable when fitted with an optional adapter card (7-18kW: KRP58M51, 18-25kW DTA104A61).

Demand Response capable air conditioners are eligible to participate in AS 4755 Demand Response Programs, potentially qualifying you for special rebates from your energy supplier.

Demand Response technology allows your energy provider to limit your air conditioner's maximum power consumption during peak load times, helping to reduce strain on the electricity grid but still maintaining a comfortable temperature range in your home.



Contact your energy provider for more information on rebates for Demand Response capable air conditioners, and to find out if you're eligible.



## MINIMUM ENERGY PERFORMANCE STANDARDS

In the interests of increasing the overall air conditioning efficiency, all ducted air conditioners with a cooling capacity of up to 65kW sold in Australia or New Zealand must now comply with the Minimum Energy Performance Standards (MEPS), as set out in Australian and New Zealand Standard 3823.2-2011.

All Daikin air conditioners exceed MEPS requirements, in line with Daikin's commitment to providing energy efficient, quiet, simple to use and reliable air conditioning solutions.



# FEATURES\*

## Energy Efficiency

### Inverter Operation

An inverter system works like the accelerator of a car, gently increasing or decreasing power to steadily maintain your optimum temperature without fluctuations. That means uninterrupted comfort and significant savings on running costs. Daikin premium inverters can also reach your desired temperature faster than conventional air conditioners.

### Automatic Mode Changeover

Automatically selects heating or cooling modes to suit thermostat settings and prevailing room temperature.

### Predicted Mean Vote (PMV) Control

Measures indoor and outdoor temperatures to calculate the ideal room temperature, gently adjusting it for the optimum balance between efficiency and comfort.

### Temperature Limit Operations

Lets you pre-define limited temperature range for cooling or heating, to reduce energy consumption.

### Home Leave

Ideal for cold climates, when activated, home leave turns your air conditioner on automatically when room temperatures drop below 10°C, keeping your home at or above 10°C so it never gets really cold.

## Worry Free

### Auto Restart After Power Failure

The air conditioner memorises the settings for mode, airflow, temperature etc. and automatically returns to them when power is restored after a power failure.

### Self Diagnostics with Digital Display

Malfunction codes are displayed on your control panel for fast, easy fault diagnosis and maintenance.

### Anti-Corrosion Coating

An anti-corrosion coating on outdoor heat exchangers gives greater resistance to salt damage & atmospheric corrosion.

### Compact Design

The compact design of Daikin ducted indoor units allows them to be installed in confined areas, and they can also be dismantled for easier installation in tight roof spaces.

## Comfort Control

### Night Quiet Mode

Outdoor unit noise is automatically reduced by 3 dB when outdoor temperatures fall more than 6°C from the day's maximum. (set during installation)

### Program Dry Mode

In this mode, priority is given to reducing the level of humidity in the room rather than room temperature.

### Intelligent Defrost

During heating operation in low ambient temperature conditions, frost can form on the outdoor unit heat exchanger which can reduce your air conditioner's performance. Daikin's intelligent defrost system constantly monitors a range of system parameters and temperatures to determine the optimum time to commence a defrost operation for maximum performance in cold conditions.

### Hot Start

Prior to heating, the indoor unit warms to a preset temperature before the fan switches on, ensuring only warm air is discharged & eliminating cold drafts.

### Quick Cool / Heat – Powerful Mode

This feature temporarily increases power to more rapidly reach your desired room temperature, before automatically returning to normal operation.

## Timers

### 24 Hour On/Off Timer

This timer can be preset to start and stop at any time within a 24 hour period.

### Night Set Mode

A timer off circuit gradually adjusts preset cooling and heating levels, preventing sudden temperature changes during the night and improving economy.

### Seven Day Time Clock

This allows you to program your air conditioner to turn on or off at set times for every day of the week.

\* Not all features available on all models – Please refer to checklist on page 9



# and **BENEFITS**

	Premium Inverter (1 phase)	Premium Inverter (1 phase)	Premium Inverter (3 phase)	Inverter Bulkhead (1 phase)	Standard Inverter (1 phase)	Standard Inverter (3 phase)
	FBQ50DV1A FBQ60DV1A FBQ71DV1A FBQ100DV1A FBQ125DV1A FBQ140DV1A	FDYQ50DV1 FDYQ60DV1 FDYQ71LV1 FDYQ100LV1 FDYQ125LV1 FDYQ140LAV1 FDYQ160LV1	FDYQ100LV1 FDYQ125LV1 FDYQ140LAV1 FDYQ160LV1 FDYQ180LV1 FDYQ200LV1 FDYQ250LV1	FDXS25LVMA FDXS35LVMA FDXS50LVMA FDXS60LVMA	FDYQN71LV1 FDYQN100LV1 FDYQN125LV1 FDYQN140LAV1	FDYQN200LV1 FDYQN250LV1
	(3 phase)					
	FBQ100DV1A FBQ125DV1A FBQ140DV1A					
Inverter Operation	✓	✓	✓	✓	✓	✓
DC Indoor Fan Motor	✓	✓	✓	✓	✓	✓
Swing Compressor	✓*	✓*		✓	✓*	
Scroll Compressor	✓	✓	✓		✓	✓
High Efficiency (HI-X) Indoor Heat Exchanger Coil	✓	✓	✓	✓	✓	✓
Automatic Mode Changeover	✓	✓	✓	✓	✓	✓
P.M.V. Control	✓	✓	✓		✓	✓
Temperature Limit Operations#	✓	✓	✓		✓	✓
Home Leave#	✓	✓	✓		✓	✓
Auto Restart After Power Failure	✓	✓	✓	✓	✓	✓
Self Diagnostics	✓	✓	✓	✓	✓	✓
Anti-Corrosion Coating for Outdoor Heat Exchanger	✓	✓	✓	✓	✓	✓
Indoor Unit Designed & Built in Australia		✓	✓		✓	✓
Long Piping Length	✓	✓	✓		✓	✓
High Strength Galvanized Steel Casing	✓	✓	✓	✓	✓	✓
Night Quiet Mode	✓	✓ <sup>○</sup>	✓		✓	✓
Low Noise Operation	✓	✓	✓		✓	✓
Program Dry Mode	✓	✓	✓	✓	✓	✓
Intelligent Defrost	✓	✓	✓	✓	✓	✓
Hot Start	✓	✓	✓	✓	✓	✓
Quick Cool / Heat – Powerful Mode	✓	✓	✓	✓	✓	✓
Automatic Fan Speed				✓		
Automatic Airflow Adjustment	✓	✓ <sup>+</sup>				
Indoor Fan Cycles with Compressor Δ	✓	✓	✓		✓	✓
24 Hour On/Off Timer	✓	✓	✓	✓	✓	✓
Night Set Mode				✓		
Seven Day Time Clock	✓	✓	✓		✓	✓
Electronic Control System	✓	✓	✓	✓	✓	✓

\* FDYQ50-60-71LV1, FDYQN71LV1 & FBQ50-71DV1A only – all others are scroll-type

Δ Can be set up by installer during installation

○ Not available for FDYQ50-60DV1

# Not available on Zone Controller

+ Available on FDYQ50-60DV1 only

*Night Quiet and Night Set modes may reduce capacity  
Low noise operation requires optional P.C.B.*

# CONTROLLED COMFORT at Your Fingertips

## NAV EASE CONTROLLER (STANDARD)



Daikin's NAV EASE controller is the standard controller for your Daikin air conditioning system\*, giving you simple, one-touch control over your in-home comfort.

### FEATURES

1. Clear, backlit display with large, easy-to-read text
2. Weekly Schedule timer, so you can program on and off times to suit your lifestyle
3. Home Leave function which, when activated, turns your air conditioner on automatically when room temperatures drop below 10°C, keeping your home at or above 10°C
4. Quick Cool / Heat mode, which temporarily increases air conditioning power to more rapidly reach your desired operating temperature, before automatically returning to normal operation
5. Set Temperature Mode Changeover, automatically switching from a cooling to heating cycle, or a heating to cooling cycle at preset points
6. Temperature Limit, to predefine a limited temperature range for cooling or heating cycles, helping you reduce your energy consumption

## ZONE CONTROLLER (OPTIONAL UPGRADE)



Daikin's Zone Controller\*\* was developed in Australia specifically for Australian and New Zealand conditions, with innovative features to give you the precise control you need for

ultimate comfort across your whole home.

With four models available, a Zone Controller is the ultimate solution for tailoring your Daikin Ducted Air Conditioning to your exact needs, for optimum comfort in your home – where and when you want it.

### FEATURES

1. Backlit display with easy to read text
2. Flexible installation for location anywhere in your home
3. Three different timer & time clock operations for precise, programmable control of your home environment
4. Countdown On-Off Timer, programmable in 1 hour increments for up to 12 hours, so you can choose when your air conditioning will turn on, or off, with a single touch of a button
5. A Simple 7-day Time Clock, so you can program the controller to turn the Daikin Ducted System on or off at set times for every day of the week. Two different on and off programs can be set for each day of the week, so you can control both operating modes and set temperatures for precise control
6. An Advanced 7-Day Time Clock extends the functionality of the Simple 7-day Time Clock with advanced features such as Zone Control and Temperature Sensor Selection, for the ultimate in precise control over your in-home comfort

## DAIKIN WI-FI CONTROLLER (Launching July 2013)

Daikin's upcoming Wi-Fi Interface will allow you control of your Daikin Sky Air or Ducted Air Conditioner directly from your smartphone (iPhone or Android), either directly, via your Wi-Fi network or remotely over the internet\*.

The Wi-Fi Interface will be compatible with current and previous Daikin Inverter Ducted and Sky Air Systems.

The interface will provide easy control of major functions such as On / Off, Temperature, Mode and Fan Speed.

Compatibility with the Daikin BRC series of Zone Controllers is also planned which will allow additional functionality such as Zone Control.

\*Control via the internet requires home Wi-Fi network with internet connection.



### A WIDE RANGE OF CONTROLLER OPTIONS ARE AVAILABLE TO SUIT YOUR HOME'S EXACT NEEDS

**BRC230Z4** – Up to four zones (230-240v)

**BRC230Z8** – Up to eight zones (230-240v)

**BRC24Z4** – up to four zones (24v)

**BRC24Z8** – Up to eight zones (24v)

**BRC5ZC** – Second slave controller for double storey or larger homes

**BRC1E61** – Full function L.C.D. wired remote controller – features programmable 7-day time clock with temperature set-back control

**BRC2A51** – Simple L.C.D. wired remote controller

**BRC4C62** – Infra-red wireless remote control kit

\* FDYQ(N) & FBQ models only

\*\* Zone Controller cannot be used in conjunction with any other controller other than the Daikin Sub Zone Controller option.

# PRODUCT RANGE

*Daikin offers a comprehensive range of ducted air conditioners. With their expert advice, your local Daikin Specialist Dealer will come to your home to assess, plan and install the right sized system for your home.*



Capacity Class (kW)	2.5	3.5	5.0	6.0	7.1	10.0	12.5	14.0	16.0	18.0	20.0	25.0	
FBQ-D Premium Inverter Single Phase			■										
FBQ-D Premium Inverter Three Phase						■							
FDYQ-L Premium Inverter Single Phase			■										
FDYQ-L Premium Inverter Three Phase						■							
FDXS-L Inverter Bulkhead Single Phase	■												
FDYQN-L Standard Inverter Single Phase					■								
FDYQN-L Standard Inverter Three Phase											■		

# Premium Inverter

## SINGLE PHASE

NEW FBQ Series (Low Profile Indoor Unit)



**FBQ50D**  
**FBQ60D**  
**FBQ71D**  
**FBQ100D**  
**FBQ125D**  
**FBQ140D**



**RZQ50KB**  
**RZQ60KB**  
**RZQ71KB**



**RZQ100KC**  
**RZQ125KC**  
**RZQ140KC**

### KEY FEATURES:

- At 300mm high with ESP of up to 200Pa, this is the ideal solution for commercial applications with tight ceiling space
- Automatic Airflow adjustment reduces on-site commissioning as the fan speed adjusts automatically to suit your duct design
- High efficiency achieved through DC Fan Motor
- Dual temperature sensor options
- Quiet Operation, including Night Quiet Operation on the outdoor unit
- Condensate Pump as standard with 700mm lift

INDOOR UNIT		FBQ50DV1A	FBQ60DV1A	FBQ71DV1A	FBQ100DV1A	FBQ125DV1A	FBQ140DV1A
OUTDOOR UNIT		RZQ50KBV4A	RZQ60KBV4A	RZQ71KCV4A	RZQ100KCV4A	RZQ125KCV4A	RZQ140KCV4A
Rated Capacity	Cool (kW)	5.0	5.8	7.1	10.0	12.0	13.0
	Heat (kW)	6.0	7.0	8.0	11.2	14.0	16.0
Capacity Range	Cool (kW)	3.2-5.6	3.2-6.0	3.2-8.0	5.0-11.2	5.7-14.0	6.2-15.4
	Heat (kW)	3.5-7.0	3.5-8.0	3.5-9.0	5.1-12.8	6.0-16.2	6.2-18.0
Power Input (Rated)	Cool (kW)	1.35	1.59	2.10	2.74	3.57	3.91
	Heat (kW)	1.38	1.76	2.04	2.62	3.37	4.03
E.E.R. / C.O.P.	C/H	3.7/4.35	3.65/3.98	3.38/3.92	3.65/4.27	3.36/4.15	3.32/3.97
Air Flow Rate (Rated)	l/s	300			533	650	
Indoor Sound Level (@1.5m)	dBA	37			38	40	
Piping Length		30		50	75		
Indoor Fan Speeds		H/L					
Dimensions (HxWxD)	Indoor (mm)	300 x 1000 x 700			300 x 1400 x 700		
	Outdoor (mm)	770 x 900 x 320			1170 x 900 x 320		
Weight	Indoor (kg)	36			46		
	Outdoor (kg)	68			98		
Power Supply	V/Hz	1 Phase, 240V, 50Hz					
Compressor Type		Hermetically Sealed Swing Type			Hermetically Sealed Scroll Type		
Refrigerant		R410A					
Pipe Sizes	Liquid (mm)	9.5 (Flared)					
	Gas (mm)	15.9 (Flared)					
	Drain (mm)	ID 25 / OD 32					
Supply Air Opening	mm (HxW)	215x760 (Flange)			215x1160 (Flange)		
Return Air Opening	mm (HxW)	247x925 (Flange)			247x1325 (Flange)		
Outdoor Operating Range	Cool (°C DB)	-5 to 46					
	Heat (°C DB)	-15 to 22					
EPA Sound Power Level	dBA	66	66	66	65	-	-
Outdoor Sound Level (H) @ 1m	Pressure dBA (C/H)	48 / 50			49 / 51	50 / 52	

Please refer to notes on page 13

# Premium Inverter

## THREE PHASE

### NEW FBQ Series (Low Profile Indoor Unit)



**FBQ100D**  
**FBQ125D**  
**FBQ140D**



**RZQ100HA**  
**RZQ125HA**  
**RZQ140HA**

#### KEY FEATURES:

- At 300mm high with ESP of up to 200Pa, this is the ideal solution for commercial applications with tight ceiling space
- Automatic Airflow adjustment reduces on-site commissioning as the fan speed adjusts automatically to suit your duct design
- Condensate Pump as standard with 700mm lift
- Ensures balanced loading across all 3 phases of electrical power distribution
- Long pipe runs between indoor and outdoor units for maximum flexibility in outdoor unit location

INDOOR UNIT		FBQ100DV1A	FBQ125DV1A	FBQ140DV1A
OUTDOOR UNIT		RZQ100HAY4A	RZQ125HAY4A	RZQ140HAY4A
Rated Capacity	Cool (kW)	10.0	12.0	13.0
	Heat (kW)	11.2	14.0	16.0
Capacity Range	Cool (kW)	5.0-11.2	5.7-14.0	6.2-15.4
	Heat (kW)	5.1-12.8	6.0-16.2	6.2-18.0
Power Input (Rated)	Cool (kW)	2.74	3.57	3.91
	Heat (kW)	2.62	3.37	4.03
E.E.R. / C.O.P.	C/H	3.65/4.27	3.36/4.15	3.32/3.97
Air Flow Rate (Rated)	l/s	533	650	
Indoor Sound Level (@1.5m)	dBA	38	40	
Piping Length		75		
Indoor Fan Speeds		H/L		
Dimensions (HxWxD)	Indoor (mm)	300 x 1400 x 700		
	Outdoor (mm)	1345 x 900 x 320		
Weight	Indoor (kg)	46		
	Outdoor (kg)	108		
Power Supply	V/Hz	3 Phase, 415V, 50Hz		
Compressor Type		Hermetically Sealed Scroll Type		
Refrigerant		R410A		
Pipe Sizes	Liquid (mm)	9.5 (Flared)		
	Gas (mm)	15.9 (Flared)		
	Drain (mm)	ID 25 / OD 32		
Supply Air Opening	mm (HxW)	215x1160 (Flange)		
Return Air Opening	mm (HxW)	247x1325 (Flange)		
Outdoor Operating Range	Cool (°C DB)	-5 to 46		
	Heat (°C DB)	-15 to 22		
EPA Sound Power Level	dBA	65	-	-
Outdoor Sound Level (H) @ 1m	Pressure dBA (C/H)	49 / 51	50 / 52	

#### NOTES:

1. Rated capacity is measured in accordance with AS/NZS 3823.1.2.
2. Cooling (or heating) capacities will be reduced below rated values as the outside temperature approaches the maximum (or minimum) temperature limits.
3. Outdoor sound pressure levels are determined in accordance with JIS8615.
4. Outdoor sound levels are determined in an anechoic chamber and may differ once the unit is installed due to ambient conditions.
5. Outdoor sound power levels are determined in accordance with E.P.A. regulations.
6. Specifications, designs and information in this brochure are subject to change without notice.
7. Unit colours shown are as close as possible to actual unit colours but may vary slightly.
8. Outdoor Operating Ranges quoted as Dry Bulb Temperature.

# Premium Inverter

## SINGLE PHASE



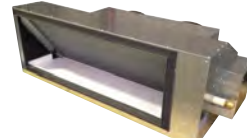
**FDYQ50D  
FDYQ60D**



**FDYQ71L**



**FDYQ100L  
FDYQ125L**



**FDYQ140LA  
FDYQ160L**



**RXS50K**



**RXS60KB**



**RZQ71K**



**RZQ100KC  
RZQ125KC**



**RZQ140LA  
RZQ160L**

### KEY FEATURES:

- Ideal for use in small to medium homes
- Premium Inverter for powerful startup and wide operating temperature range
- Quiet operation
- Compact unit designed for flexible installation in tight roof spaces
- 15 different fan speed ranges so your installer can match the airflow to your ducting configuration

INDOOR UNIT		FDYQ50DV1	FDYQ60DV1	FDYQ71LV1	FDYQ100LV1	FDYQ125LV1	FDYQ140LAV1	FDYQ160LV1
OUTDOOR UNIT		RXS50KVMA	RXS60KBVMA	RZQ71KCV4A	RZQ100KCV4A	RZQ125KCV4A	RZQ140LAV1A	RZQ160LV1A
Rated Capacity	Cool (kW)	5.1	6.0	7.1	10.0	12.5	14.0	16.0
	Heat (kW)	6.0	7.0	7.5	12.5	15.0	16.5	18.0
Capacity Range	Cool (kW)	1.7-5.6	3.0-7.0	3.2-8.0	5.0-11.2	5.7-14.0	6.2-15.5	7.3-16.3
	Heat (kW)	1.7-7.0	3.0-8.0	3.5-9.0	5.1-13.0	6.0-16.0	6.2-18.0	7.3-18.2
Power Input (Rated)	Cool (kW)	1.52	1.8	2.23	3.15	4.16	4.18	5.35
	Heat (kW)	1.62	1.98	2.17	3.48	4.04	4.18	5.05
E.E.R. / C.O.P.	C/H	3.4/3.7	3.33/3.54	3.18/3.45	3.17/3.59	3.0/3.71	3.35/3.95	2.99/3.56
Air Flow Rate (Rated)	l/s	370	400	566	814	840	1000	1120
Indoor Sound level (@1.5m)	dBA	44.4	45	40.5	43.5	45.5	46	48
Piping Length		30		50	75			
Indoor Fan Speeds		H/M/L						
Dimensions (HxWxD)	Indoor (mm)	300x1015x851		360x1188x869	360x1498x899		500x1498x999	
	Outdoor (mm)	735x825x300	990x940x320	770x900x320	1170x900x320		1430x940x320	
Weight	Indoor (kg)	35		47	56	61	69	
	Outdoor (kg)	48	80	68	98		108	
Power Supply	V/Hz	1 phase, 220-240V, 50Hz						
Compressor Type		Hermetically Sealed Swing Type			Hermetically Sealed Scroll Type			
Refrigerant		R410A						
Pipe Sizes	Liquid (mm)	6.4 (Flared)		9.5 (Flared)				
	Gas (mm)	12.7 (Flared)		15.9 (Flared)				
	Drain (mm)	ID 25 / OD 32						
Supply Air Opening	mm (HxW)	202x762 (Flange)		243x751 (Flange)	243x1152 (Flange)		385x1152 (Flange)	
Return Air Opening	mm (HxW)	1x400 (Oval)			2x400 (Oval)		2x400 (Oval)	
Outdoor Operating Range	Cool (°C DB)	10 to 46			-5 to 46			
	Heat (°C DB)	-15 to 24			-15 to 22			
EPA Sound Power Level	dBA	62	68	66	65	-		
Outdoor Sound Level (H) @ 1m	Pressure dBA (C/H)	47/48	52/54	48/50	49/51	50/52	57/59	

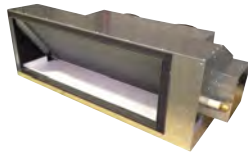
Please refer to notes on page 13

# Premium Inverter

## THREE PHASE



**FDYQ100L  
FDYQ125L**



**FDYQ140LA  
FDYQ160L**



**FDYQ180L  
FDYQ200L  
FDYQ250L**



**RZQ100HA  
RZQ125HA**



**RZQ140LAY1A  
RZQ160LY1A**



**RZYQ7P  
RZYQ8P**



**RZYQ10P**

### KEY FEATURES:

- Ideal for medium to large homes
- Premium Inverter for powerful startup and wide operating temperature range
- Indoor unit can be dismantled for easy installation in tight roof spaces
- 15 different fan speed ranges so your installer can match the airflow to your ducting configuration
- Long pipe runs between indoor and outdoor units for maximum flexibility in outdoor unit location

INDOOR UNIT		FDYQ100LV1	FDYQ125LV1	FDYQ140LAV1	FDYQ160LV1	FDYQ180LV1	FDYQ200LV1	FDYQ250LV1	
OUTDOOR UNIT		RZQ100HAY4A	RZQ125HAY4A	RZQ140LAY1A	RZQ160LY1A	RZYQ7PY19	RZYQ8PY19	RZYQ10PUY1	
Rated Capacity	Cool (kW)	10.0	12.5	14.0	16.0	18.0	20.0	24.0	
	Heat (kW)	12.5	15.0	16.5	18.0	20.0	22.4	26.8	
Capacity Range	Cool (kW)	5.0-11.2	5.7-14.0	6.2-15.5	7.3-16.3	10.8-20.0	12.0-22.4	15.0-28.0	
	Heat (kW)	5.1-13.0	6.0-16.0	6.2-18.0	7.3-18.2	12.0-22.4	13.4-25.0	16.8-31.5	
Power Input (Rated)	Cool (kW)	3.04	3.85	4.18	5.35	5.64	6.08	7.47	
	Heat (kW)	3.5	4.05	4.18	5.05	5.84	6.17	8.14	
E.E.R. / C.O.P.	C/H	3.28/3.57	3.24/3.70	3.35/3.95	2.99/3.56	3.19/3.42	3.29/3.63	3.21/3.29	
Air Flow Rate (Rated)	l/s	814	840	1000	1120	1180	1200	1400	
Indoor Sound Level (@1.5m)	dB(A)	43.5	45.5	46	48	45.5	44	49.5	
Piping Length		75				150			
Indoor Fan Speeds		H/M/L							
Dimensions (HxWxD)	Indoor (mm)	360x1498x899		500x1498x999		500x1230x910		500x1430x910	
	Outdoor (mm)	1345x900x320		1430x940x320		1680x930x765		1680x1240x765	
Weight	Indoor (kg)	56	61	69		77	85	92	
	Outdoor (kg)	108			205			285	
Power Supply	V/Hz	3 phase, 415V, 50Hz			3 phase, 380-415V, 50Hz				
Compressor Type		Hermetically Sealed Scroll Type							
Refrigerant		R410A							
Pipe Sizes	Liquid (mm)	9.5 (Flared)				9.5 (Brazed)			
	Gas (mm)	15.9 (Flared)				19.1 (Brazed)		22.2 (Brazed)	
	Drain (mm)	ID 25 / OD 32				BSP 3/4 inch Internal Thread			
Supply Air Opening	mm (HxW)	243x1152 (Flange)		385x1152 (Flange)		376x827 (Flange)		376x938 (Flange)	
Return Air Opening	mm (HxW)	2x400 (Oval)		2x400 (Oval)		350x918 (Flange)	350x1118 (Flange)		
Outdoor Operating Range	Cool (°C DB)	-5 to 46				-5 to 43			
	Heat (°C DB)	-15 to 22				-20 to 22			
EPA Sound Power Level	dB(A)	65	-	-	-	-	-	-	
Outdoor Sound Level (H) @ 1m	Pressure dBA (C/H)	49/51	50/52	57/59		57/57		60/60	

Please refer to notes on page 13

# Inverter Bulkhead

## SINGLE PHASE



**FDXS25L  
FDXS35L  
FDXS50L  
FDXS60L**



**RXS25LB  
RXS35LB**



**RXS50LB  
RXS60LB**

### KEY FEATURES:

- Quiet operation
- Compact and lightweight
- Only suction air and discharge grilles are visible inside your home
- Fits flush into ceiling, leaving maximum floor and wall space for furniture, decoration and fittings

INDOOR UNIT		FDXS25LVMA	FDXS35LVMA	FDXS50LVMA	FDXS60LVMA
OUTDOOR UNIT		RXS25LBVMA	RXS35LBVMA	RXS50LBVMA	RXS60LBVMA
Rated Capacity	Cool (kW)	2.4	3.4	5.0	6.0
	Heat (kW)	3.2	4.0	5.8	7.0
Capacity Range	Cool (kW)	1.3-3.0	1.4-3.8	2.3-5.3	3.0-6.5
	Heat (kW)	1.3-4.5	1.4-5.0	2.3-6.0	3.0-8.0
Power Input (Rated)	Cool (kW)	0.69	1.03	1.5	1.91
	Heat (kW)	0.91	1.14	1.72	2.17
E.E.R / C.O.P	C/H	3.48/3.52	3.30/3.51	3.33/3.37	3.14/3.23
Air Flow Rate (Rated)	l/s	158	200	267	
Indoor Sound Level (@1.5m)	dB(A)	35	37	38	
Pipe Length (max)		20		30	
Indoor Fan Speeds		5 Steps, Quiet and Automatic			
Dimensions (HxWxD)	Indoor (mm)	200x900x620		200x1100x620	
	Outdoor (mm)	550x765x285		770x900x320	990x940x320
Weight	Indoor (kg)	25	27	30	
	Outdoor (kg)	34		71	80
Power Supply	V/Hz	1 Phase, 220-240V, 50Hz			
Compressor Type		Hermetically Sealed Swing Type			
Refrigerant		R410A			
Pipe Sizes	Liquid (mm)	6.4 (Flared)		9.5 (Flared)	
	Gas (mm)	9.5 (Flared)		15.9 (Flared)	
	Drain (mm)	ID 20 / OD 26			
Supply Air Opening	mm (HxW)	153x860 (Flange)		153x1060 (Flange)	
Return Air Opening	mm (HxW)	160x780 (Flange)		160x980 (Flange)	
Outdoor Operating Range	Cool (°C DB)	10 to 46			
	Heat (°C DB)	-10 to 24		-15 to 24	
EPA Sound Power Level	dB(A)	62	63	65	68
Outdoor Sound Level (H) @ 1m	Pressure dB(A) (C/H)	47/48	49/49	50/51	52/54

Please refer to notes on page 13



# Standard Inverter

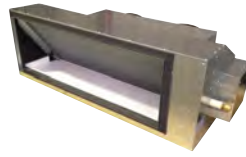
## SINGLE PHASE & THREE PHASE



FDYQN71L



FDYQN100L  
FDYQN125L



FDYQN140LA



FDYQN200L  
FDYQN250L



RQ71L



RQ100L  
RQ125L



RQ140LA



RQ200K



RQ250K

### KEY FEATURES:

- Ideal for medium to large homes
- Indoor unit can be dismantled for easy installation in tight roof spaces
- 15 different fan speed ranges so your installer can match the airflow to your ducting configuration

INDOOR UNIT		FDYQN71LV1	FDYQN100LV1	FDYQN125LV1	FDYQN140LAV1	FDYQN200LV1	FDYQN250LV1
OUTDOOR UNIT		RQ71LV1A	RQ100LV1A	RQ125LV1A	RQ140LAV1A	RQ200KY1	RQ250KY1
Rated Capacity	Cool (kW)	7.1	10.0	12.5	14.0	20.0	24.0
	Heat (kW)	7.5	12.5	15.0	16.5	22.4	26.8
Capacity Range	Cool (kW)	3.6-7.1	5.0-10.0	6.3-12.5	6.2-14.0	12.0-20.0	15.0-24.0
	Heat (kW)	3.8-7.5	6.3-12.5	7.5-15.0	6.2-16.5	13.4-22.4	16.8-26.8
Power Input (Rated)	Cool (kW)	2.25	3.31	4.17	4.44	6.08	7.47
	Heat (kW)	2.29	3.75	4.48	4.44	6.17	8.14
E.E.R / C.O.P	C/H	3.15/3.27	3.02/3.33	2.99/3.35	3.15/3.72	3.29/3.63	3.21/3.29
Air Flow Rate (Rated)	l/s	566	814	840	1000	1200	1400
Indoor Sound Level (@1.5m)	dBA	40.5	44	45	46	44	49.5
Piping Length		50					
Indoor Fan Speeds		H/M/L					
Dimensions (HxWxD)	Indoor (mm)	360x1188x869	360x1498x899		500x1498x999	500x1430x910	
	Outdoor (mm)	770x900x320	1170x900x320		1430x940x320	1680x930x765	1680x1240x765
Weight	Indoor (kg)	47	56	61	69	85	92
	Outdoor (kg)	68	98	98	108	205	285
Power Supply	V/Hz	1 Phase, 220-240v, 50Hz				3 Phase, 415v, 50Hz	
Compressor Type		Hermetically Sealed Swing Type	Hermetically Sealed Scroll Type				
Refrigerant		R410A					
Pipe Sizes	Liquid (mm)	9.5 (Flared)				9.5 (Brazed)	
	Gas (mm)	15.9 (Flared)				19.1 (Brazed)	22.2 (Brazed)
	Drain (mm)	ID 25 / OD 32				BSP 3/4 inch Internal Thread	
Supply Air Opening	mm (HxW)	243x751 (Flange)	243x1152 (Flange)		385x1152 (Flange)	376x827 (Flange)	376x938 (Flange)
Return Air Opening	mm (HxW)	1x400 (Oval)	2x400 (Oval)			350x1118 (Flange)	
Outdoor Operating Range	Cool (°C DB)	-5 to 46				-5 to 43	
	Heat (°C DB)	-10 to 22				-20 to 22	
EPA Sound Power Level	dBA	67	-	-	-	-	
Outdoor Sound Level (H) @ 1m	Pressure dBA (C/H)	49/51	51/53	58/60	57/57	60/60	

Please refer to notes on page 13

# YOU KNOW YOU CAN TRUST *Daikin*



## DAIKIN'S NETWORK OF SPECIALIST DEALERS

Daikin have over 450 Specialist Dealers across Australia and New Zealand ready to help you fit the right ducted air conditioning solution for your home. Like us, our Dealers are experts in their field and this ensures you get all the air conditioning help and advice you need.

## OPTIONS TO ENHANCE YOUR DAIKIN DUCTED SYSTEM

- KRCS01-4B** – Room mounted remote temperature sensor
- KRP1B5X** – Wiring adaptor for compressor, indoor fan and booster heater run indication
- KRP4AA51** – Wiring adaptor for external control (e.g. time-clock)
- KPW937A4** – Air deflector kit for RXS25-35LBVMA outdoor units
- KPW945A4** – Air deflector kit for RZQ71-140KCV4A, RZQ100-140HAY4A, RZQ50-60KBV4A, RXS50KVMA, RXS60KBVMA and RXS50LBVMA outdoor units

## DAIKIN'S 5 YEAR WARRANTY

The Daikin 5 year parts and labour warranty applies to all ducted air conditioning products in this brochure purchased and installed in Australia or New Zealand. It does not apply to any non-Daikin components used in the installation (e.g ducting, air outlets, zone motors etc). For full details of Daikin's 5 year warranty visit [www.daikin.com.au](http://www.daikin.com.au) or [www.daikin.co.nz](http://www.daikin.co.nz)



# AIR CONDITIONING MADE *easy*

## **AIR CONDITIONING: WHAT TO LOOK FOR**

NOW THAT YOU'VE READ THIS BROCHURE YOU SHOULD HAVE A BASIC UNDERSTANDING OF ALL THE BENEFITS OF A DAIKIN DUCTED AIR CONDITIONING SYSTEM. HERE ARE SOME QUICK HINTS AND TIPS TO HELP YOU WITH YOUR DECISION AND ENSURE YOU GET THE RIGHT AIR CONDITIONER FOR YOUR NEEDS.

## **THE RIGHT AIR CONDITIONER FOR YOUR HOME**

When you are investing in an air conditioning system, it's very important to seek expert advice. A Daikin Specialist Dealer will devote the time and effort to ensure you choose the right air conditioning system for your home.

## **PROFESSIONAL INSTALLATION**

Daikin's Specialist Dealer will make sure your air conditioning system is professionally installed so it works quietly and efficiently.

## **NOISE LEVEL CONSIDERATIONS**

It's very important to consider the noise level of an air conditioner – both indoors and outdoors. Considerations should also be made with local regulations in your area enabling the right distance between your outdoor unit and neighbouring homes.

## **ENERGY EFFICIENCY**

Daikin's advanced and innovative technology ensures your air conditioner is one of the most energy efficient systems available.

## **OPERATION IN EXTREME WEATHER**

When climatic conditions are extreme, either at their coldest or at their hottest, that's when you need your air conditioner the most. Daikin ducted air conditioners can operate when temperatures soar as high as 46°C or fall as low as -15°C depending on the model.





### 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 practises.

### 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.

### Environmental Qualifications

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.



Quality  
ISO 9001  
SAI GLOBAL



Environment  
ISO 14001  
SAI GLOBAL

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

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

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

**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)

**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)



[www.daikin.com.au](http://www.daikin.com.au)

[www.daikin.co.nz](http://www.daikin.co.nz)

**DEALER:**