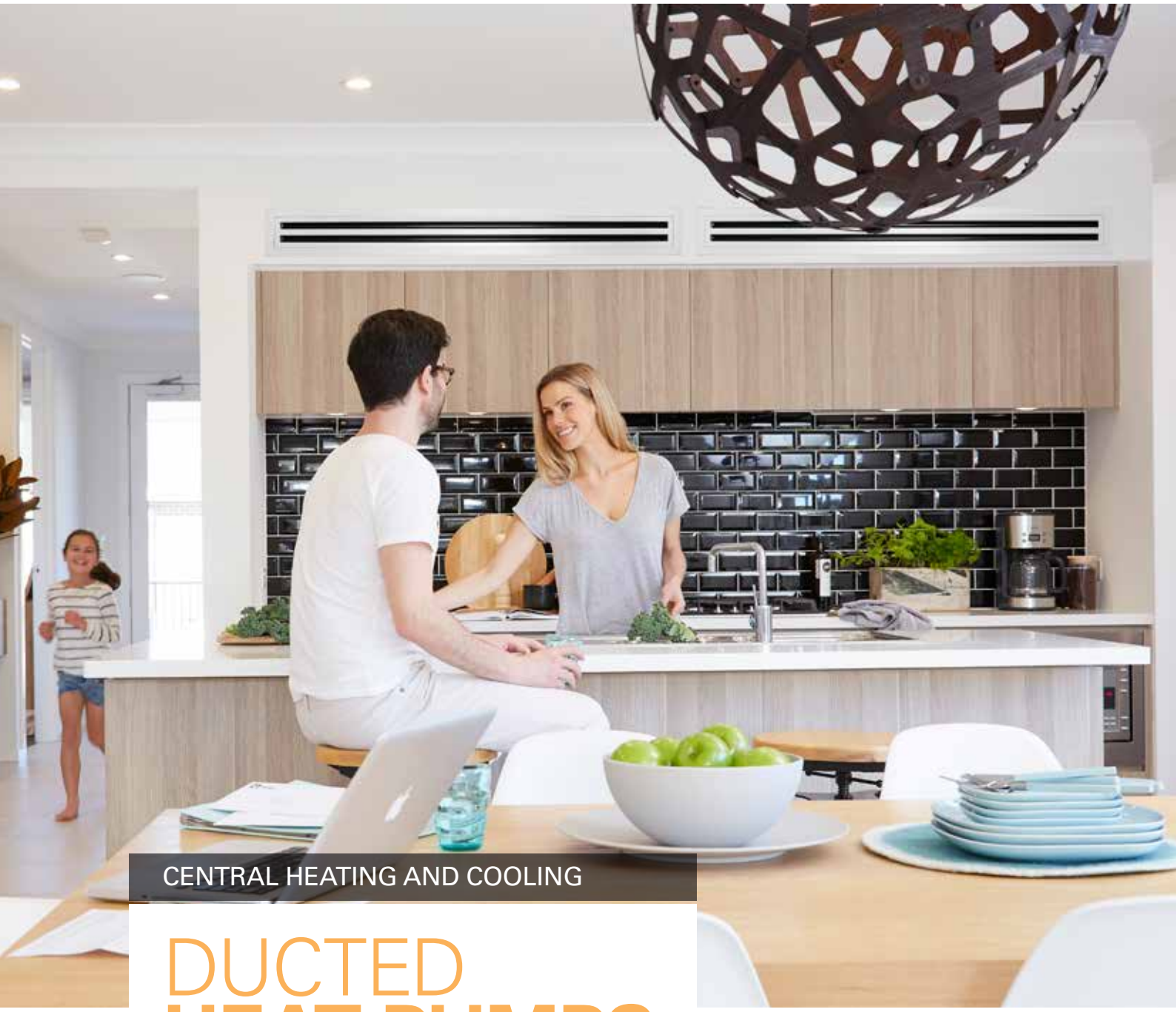
DAIKIN

The World Leading Heat Pump Company



CENTRAL HEATING AND COOLING

DUCTED
HEAT PUMPS

RES-DUC-18112020

WORLD **LEADING**

At Daikin, we're not just in the business of heat pumps. We're in the business of human comfort. Our passion for designing and engineering smart technologies ensures your comfort levels are maximised.

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

"Does it do what a Daikin does?"

CONTENTS

CENTRAL HEATING
FOR YOUR ENTIRE HOME

DAIKIN DUCTED AIR

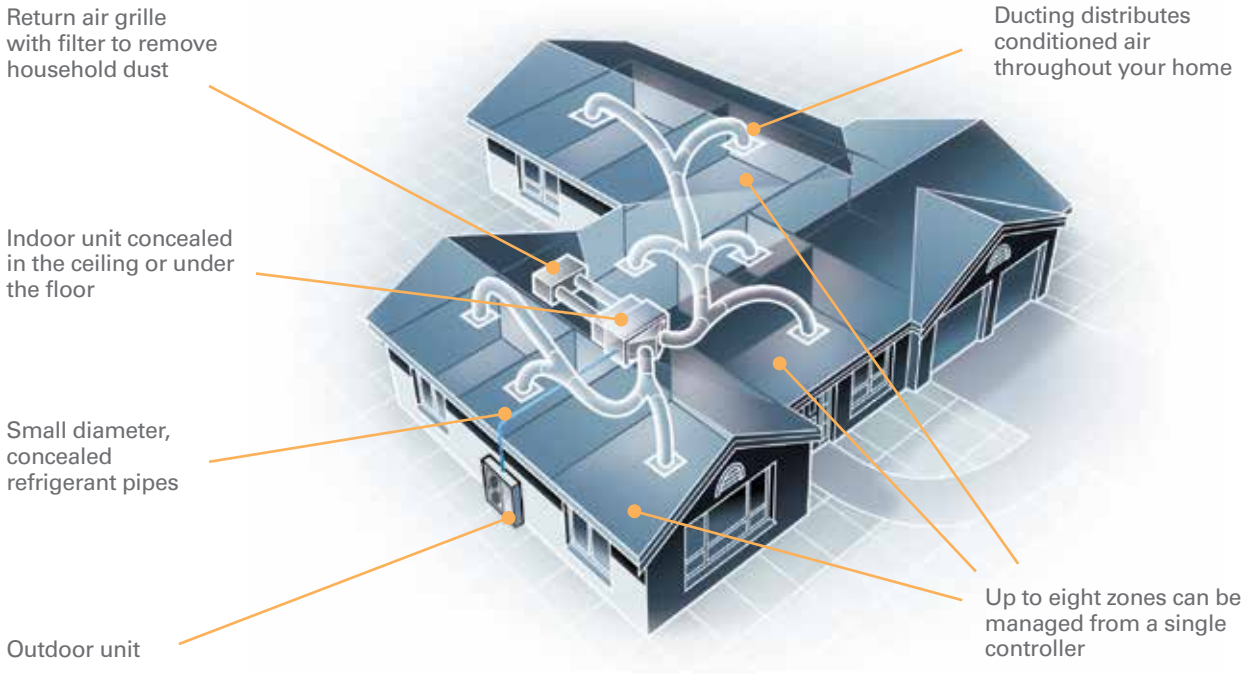
A Daikin Ducted Heat Pump provides discreet air conditioned comfort throughout your entire home. It can be installed in a new home or tailored to suit an existing one, with only the wall controller and discreet grilles visible inside.

A Daikin ducted heat pump consists of an indoor and outdoor unit with flexible ducting inside the roof. The indoor unit is concealed out of sight in your ceiling, 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 ZONING OPTIONS FOR YOUR HOME

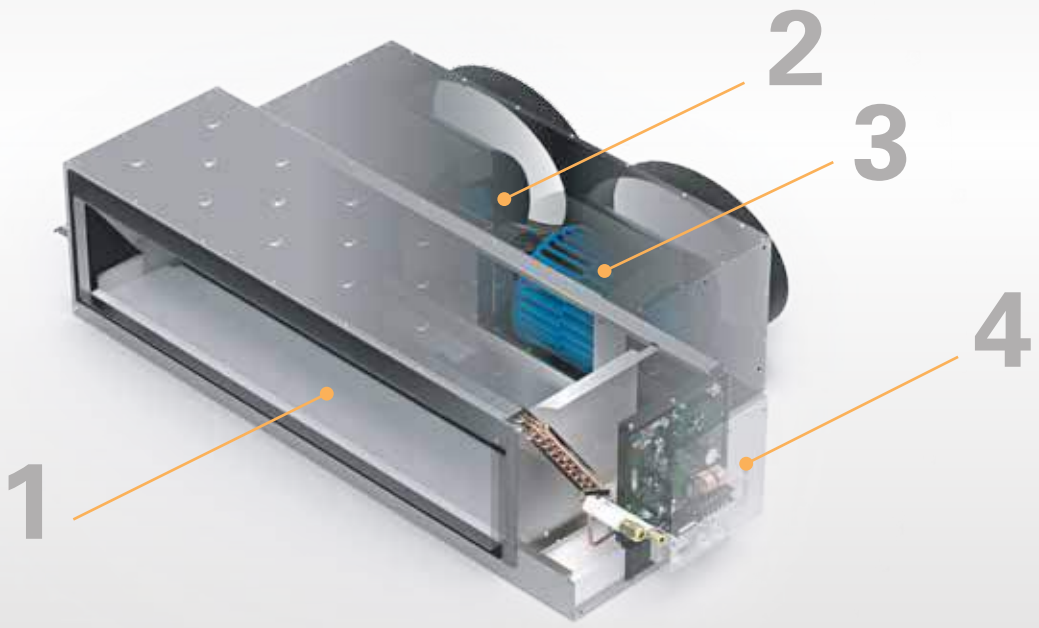
Daikin ducted air conditioning gives you the flexibility to heat or cool every room in your home. Your home can be 'zoned' to maximise energy efficiency and comfort. For example, you may want the bedrooms in zone one, the living areas in zone two and so on. The position of discharge grilles can also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

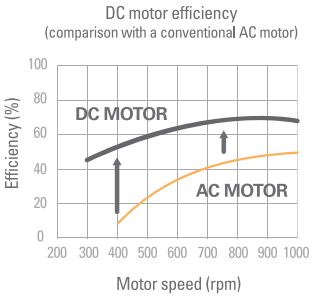
DAIKIN DUCTED AIR CONDITIONING AT A GLANCE



DAIKIN TECHNOLOGY

INDOOR UNIT





1

INDOOR HEAT EXCHANGER

Our new indoor heat exchangers have been designed to deliver maximum capacity output in a compact casing size. Through the use of cutting edge technologies, our indoor heat exchangers utilise Ø5mm copper pipes to ensure heat is removed from your home efficiently.

2

DC FAN MOTOR

Daikin indoor units are equipped with a 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.

3

SIROCCO FAN

Daikin's ducted units are fitted with lightweight single injection moulded Sirocco Fans. These fans feature an aerodynamic fan blade design which reduces turbulence for a more efficient and quieter airflow delivery.

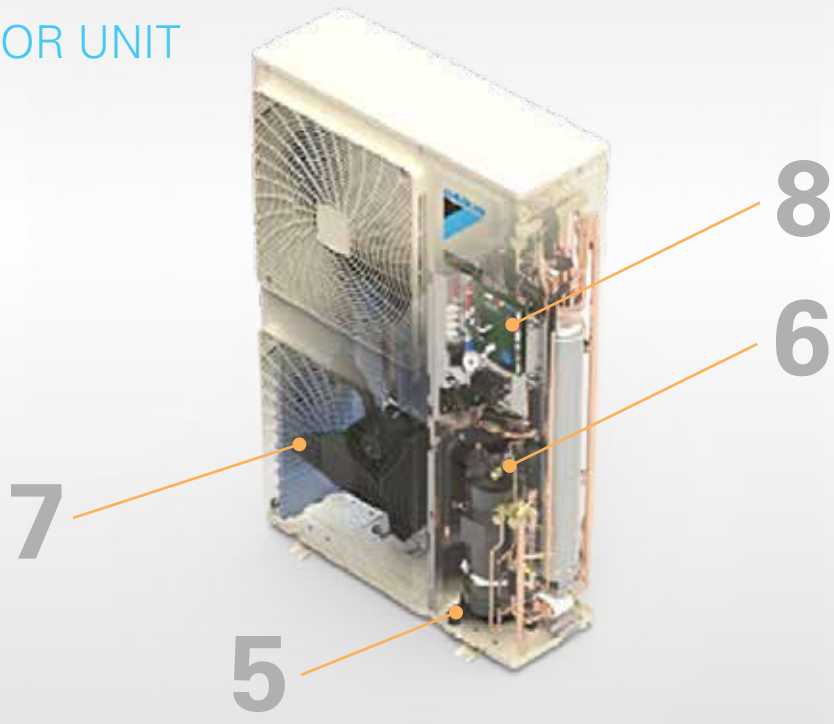
4

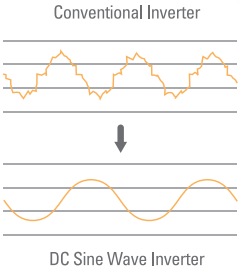
PMV CONTROL

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.

For over 90 years, Daikin has invested heavily in Research and Development to deliver more effective climate control for you and your family. Daikin technologies help make Daikin heat pumps energy efficient, powerful, reliable and easy to use.

OUTDOOR UNIT





5

INVERTER COMPRESSOR

Daikin's swing and scroll DC sine wave inverter compressors are quieter and more efficient than conventional compressors, thanks to their high pressure dome construction and the usage of high pressure lubrication oil.

6

RELUCTANCE DC MOTOR

Daikin's Reluctance DC motor utilises the magnetic torque of neodymium magnets in conjunction with reluctance torque, resulting in more energy efficient operation. These neodymium magnets are 10 times stronger than conventional ferrite magnets.

7

SAW EDGE FAN BLADE

The addition of a saw tooth edge at the rear of the blade smooths airflow over the blade surface, reducing turbulence which in turn results in a quieter, more efficient means of delivering comfort to your home.

8

REFRIGERANT COOLED PCB

The heat produced by the inverter PCB module is cooled by a sub heat exchanger*. This provides stable operation, enhanced reliability and continuous operation at up to 50° CDB ambient^.

*Refrigerant Cooled PCB only applicable to RZAS71-160CV1, RZA85-160CV1 & RZA71-160CY1
^50°CDB ambient only applicable to RZAS71-160CV1

OUR DUCTED PRODUCT RANGE

HSP & MSP DUCTED

(NZ ONLY)

R32

FDMA Series

The NEW HSP Single Split Ducted has a depth of only **700mm** and is specially designed with New Zealand homes in mind.

CONTROLLERS:
NAV EASE
ZONE CONTROLLER
MADOKA
DAIKIN AIRBASE
AIRZONE

BEST FOR:

- Designed for Modern Kiwi Homes
- Depth of Only 700mm for Precision Fit
- R32 Refrigerant for Enhanced Efficiency and Lower Global Warming Potential

R22 RETROFIT CAPABILITY

Provides a cost effective and convenient upgrade from an existing R22 ducted system whilst retaining the field piping.*

NIGHT QUIET MODE

Reduces the outdoor noise levels during sleeping hours and automatically resumes normal operations in the morning.

BUILT-IN DRAIN PUMP

Built-in drain pump as standard.

COMPACT DESIGN

140 and 160 Class is now housed in a compact indoor casing for easier installation.

ONLY FOR NZ MARKET

Specifically designed with New Zealand homes in mind.

R32 REFRIGERANT

R-32 has approximately a third of the global warming potential of R-410A and zero ozone depletion potential.

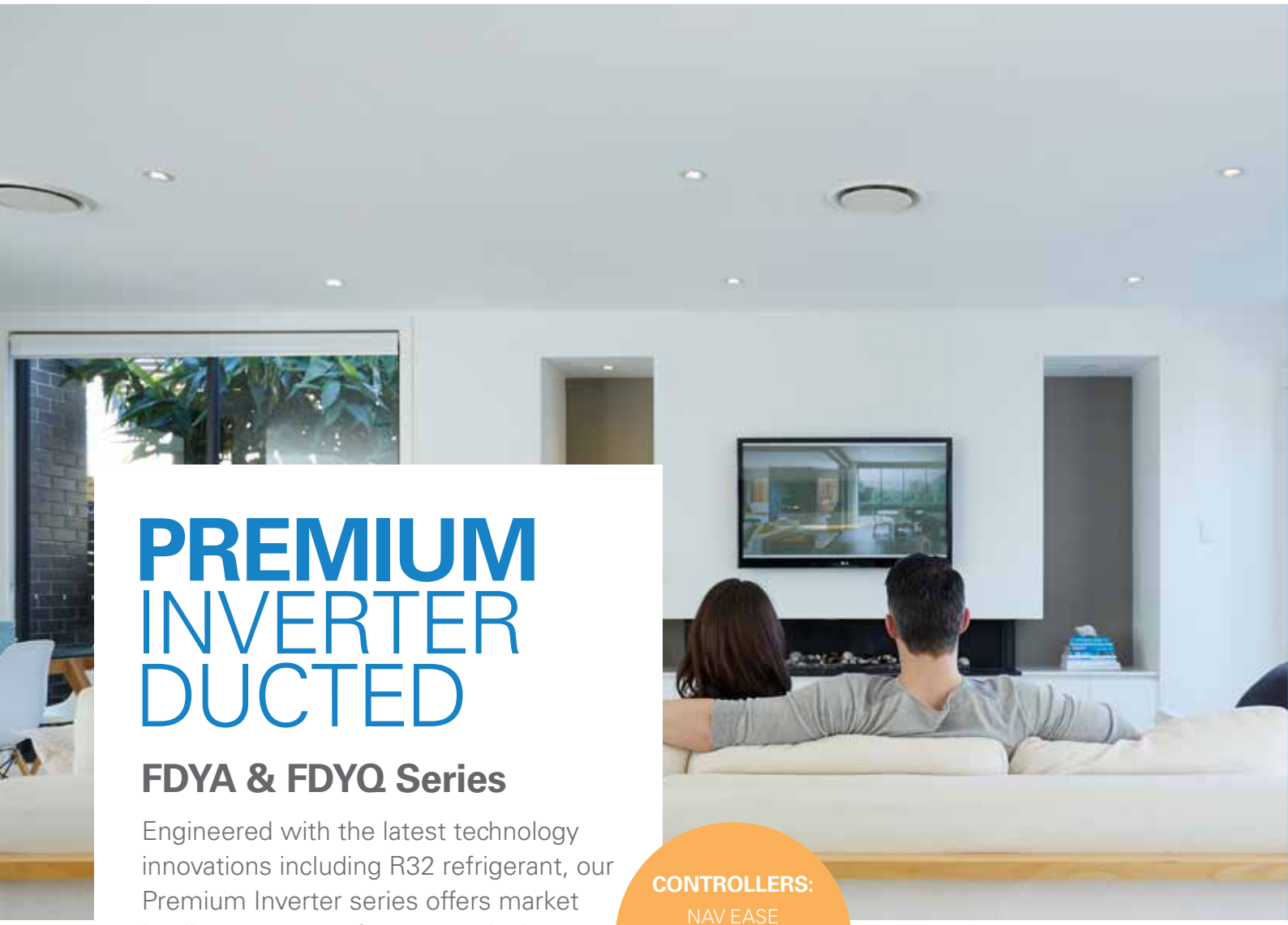
*Strict guidelines apply for R22 Retrofit Capability, please speak to your installer for further information.

Note: R32 ducted indoor units must be installed in the ceiling space, it is not to be installed underfloor.

8.0kW -TO- 16.0kW RATED HEATING CAPACITIES

8 R32 MODELS

SINGLE + THREE PHASE OPTIONS



PREMIUM INVERTER DUCTED

FDYA & FDYQ Series

Engineered with the latest technology innovations including R32 refrigerant, our Premium Inverter series offers market leading energy performance, design flexibility and R22 retrofit capability^.

CONTROLLERS:
NAV EASE
ZONE CONTROLLER
MADOKA
DAIKIN AIRBASE
AIRZONE

SUPERIOR ENERGY PERFORMANCE

Engineered with features such as a redesigned CrossPass Heat Exchanger on the outdoor unit, DC Fan motor on the indoor unit and Daikin's patented swing compressor, our new Premium Inverter series takes energy efficiency to the next level.

NIGHT QUIET MODE

Our outdoor units are amongst the quietest on the market. If the noise levels need to be further reduced, engaging the Night Quiet Mode feature will reduce the noise levels by 4dBA**.

R32 REFRIGERANT

R32 is the next generation in refrigerants with a substantially lower 'Global Warming Potential Factor' than R410A, providing less risk of harm to the environment*.

AUTOMATIC AIRFLOW ADJUSTMENT

Commissioning has never been easier. Automatic Airflow Adjustment feature allows the fan speed to adjust automatically to suit your duct design during commissioning, simplifying the process and saving time.

*Applies to 71-160 Class Models
**Outdoor sound levels are determined in an anechoic chamber and may differ once the unit is installed due to ambient conditions
^Strict guidelines apply for R22 Retrofit Capability, please speak to your installer for further information
Note: R32 ducted indoor units must be installed in the ceiling space, it is not to be installed underfloor

7.5kW -TO- **18.0kW**
RATED HEATING CAPACITIES

6
R32 MODELS

SINGLE
PHASE OPTIONS

20.0kW -TO- **26.8kW**
RATED HEATING CAPACITIES

6
R410A MODELS

THREE
PHASE OPTIONS

DESIGN FLEXIBILITY

The side discharge configuration of the outdoor unit enables convenient installation onto the narrow side access of modern homes. Additionally, the indoor unit can also be separated into 2 sections for easy installation and retrofit into existing homes.

AUSTRALIAN MADE

Indoor units are specifically designed and manufactured to Australian and New Zealand standards.

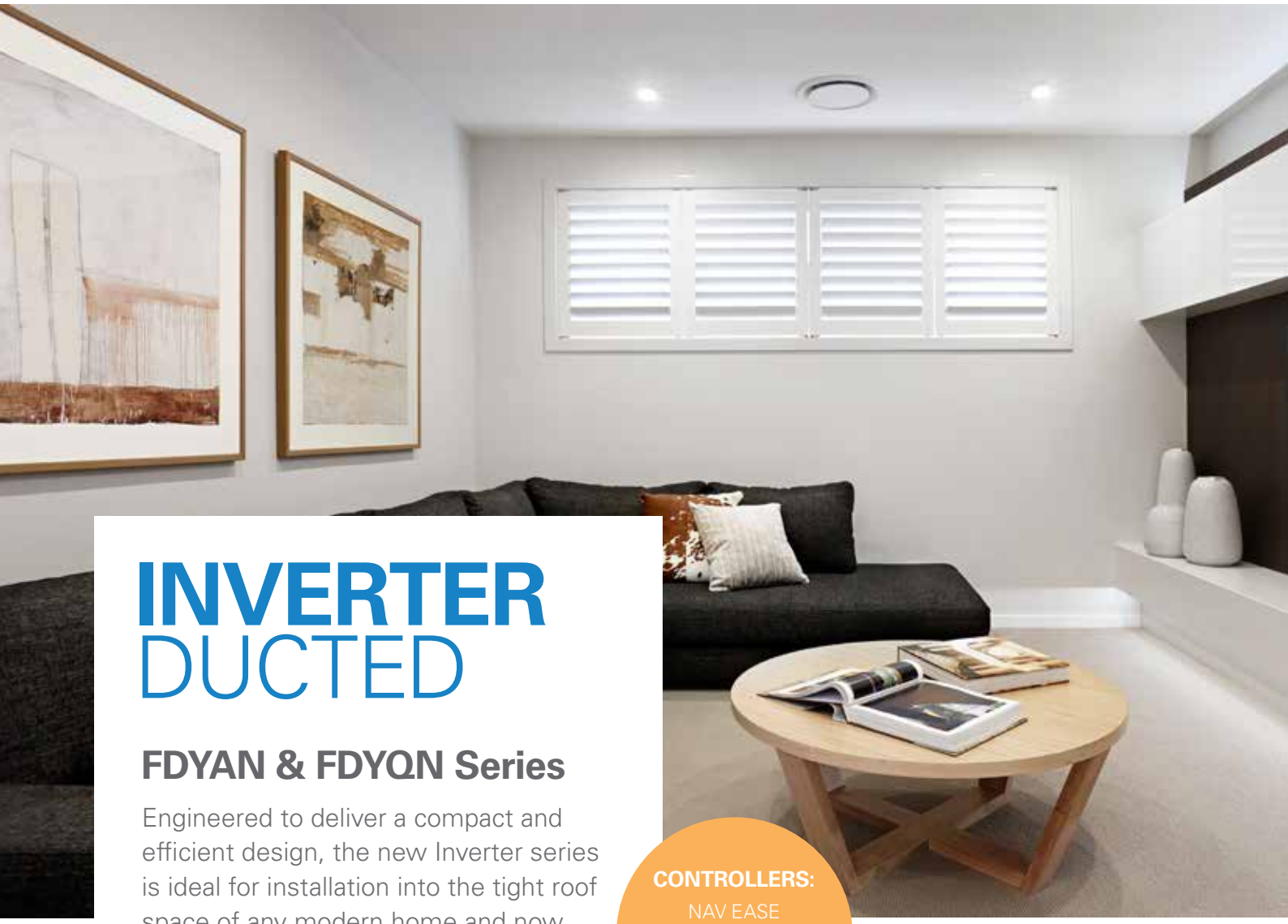
The Airbase Smartphone Interface is an optional accessory that allows you to control your Daikin Ducted anywhere, anytime System from anywhere, anytime

INCREASED OPERATION LIMITS

Built for the harsh summer season, the refrigerant cooled PCB technology incorporated in the outdoor unit enables continuous operations up to 50°CDB ambient.

HEATING FOCUS OPTION
(ADDITIONAL LINE UP)

Heating Focus models are available in 180, 200 & 250 Class. These models provide improved heating performance at low ambient temperatures, ideal for cold climate zones such as the South Island. These models are not R22 retrofit capable.

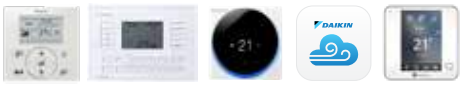


INVERTER DUCTED

FDYAN & FDYQN Series

Engineered to deliver a compact and efficient design, the new Inverter series is ideal for installation into the tight roof space of any modern home and now also features R22 retrofit capability^.

CONTROLLERS:
NAV EASE
ZONE CONTROLLER
MADOKA
DAIKIN AIRBASE
AIRZONE



IMPROVED ENERGY PERFORMANCE

Adopting advanced technologies such as a DC Fan motor, Cross-Pass Heat Exchanger on the outdoor unit with increased heat exchange area and Daikin's patented swing compressor our new Inverter series is designed to operate with improved efficiencies throughout the year.

NIGHT QUIET MODE

Our outdoor units are amongst the quietest on the market. If the noise levels need to be further reduced, engaging the Night Quiet Mode feature will reduce the noise levels by 4dBA*.

EXPANDED 3 PHASE RANGE

Designed for homes with a 3 phase power supply in place, our new R32 Inverter series ensures a simple and convenient installation without the need to worry about unbalanced electrical loads at your electrical distribution board.

AUTOMATIC AIRFLOW ADJUSTMENT

Commissioning has never been easier. Automatic Airflow Adjustment feature allows the fan speed to adjust automatically to suit your duct design during commissioning, simplifying the process and saving time.

*Outdoor sound levels are determined in an anechoic chamber and may differ once the unit is installed due to ambient conditions
^Only applicable to 50-160 Class, strict guidelines apply for R22 Retrofit Capability, please speak to your installer for further information
Note: R32 ducted indoor units must be installed in the ceiling space, it is not to be installed underfloor.

6.0kW -TO- **18.0kW**
RATED HEATING CAPACITIES

14
R32 MODELS

SINGLE+ THREE
PHASE OPTIONS

20.0kW -TO- **26.8kW**
RATED HEATING CAPACITIES

3
R410A MODELS

THREE
PHASE OPTIONS

SPACE SAVING OUTDOOR UNIT

The Inverter series outdoor units are more compact than ever before. Models up to 200 Class are now encased in a space saving side discharge outdoor unit, allowing you to place the unit on the side access of your home and not compromise the external appearance of your home.

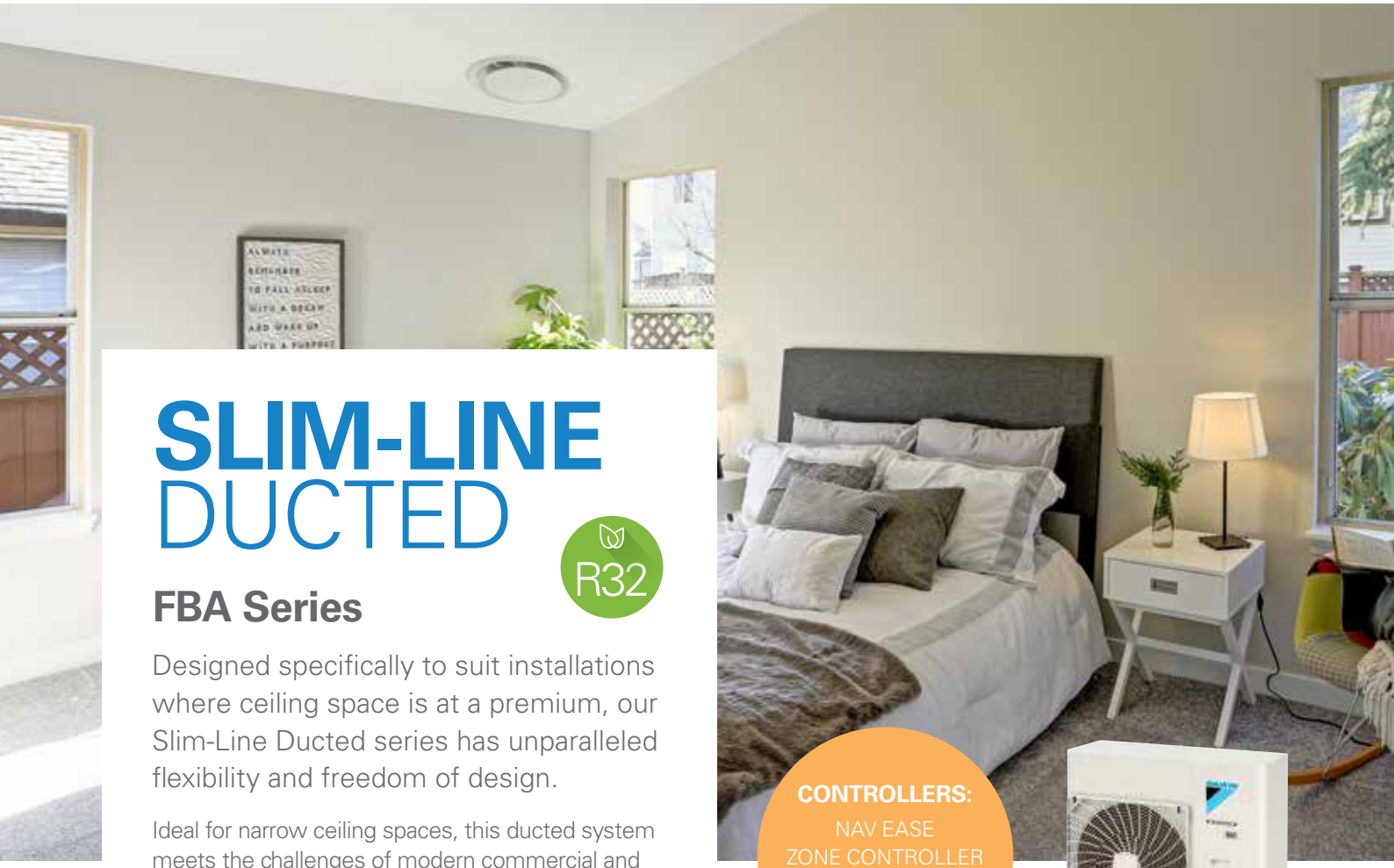
AUSTRALIAN MADE

Indoor units are specifically designed and manufactured to Australian and New Zealand standards.

COMPACT INDOOR UNIT

Today's modern home designs are maximising living spaces with higher ceilings causing roof spaces to shrink. Our Inverter series feature compact indoor units with a low profile height of ≤360mm allowing them to fit comfortably into the tight roof space of a modern home.

The Airbase Smartphone Interface is an optional accessory that allows you to control your Daikin Ducted anywhere, anytime System from anywhere, anytime



SLIM-LINE DUCTED

R32

FBA Series

Designed specifically to suit installations where ceiling space is at a premium, our Slim-Line Ducted series has unparalleled flexibility and freedom of design.

Ideal for narrow ceiling spaces, this ducted system meets the challenges of modern commercial and medium density apartment development.

CONTROLLERS:
NAV EASE
ZONE CONTROLLER
MADOKA
DAIKIN AIRBASE
AIRZONE

BEST FOR:

- Heating or cooling multiple rooms
- Narrow ceiling spaces
- Bedroom air conditioning

SLIM-LINE INDOOR

Industry leading low profile design of 245mm height ensures clearance in most narrow roof spaces.

AUTOMATIC AIRFLOW ADJUSTMENT

Allows the fan speed to adjust automatically to suit your duct design for optimum airflow distribution.

DESIGN FLEXIBILITY

DC fan with a static pressure of 150Pa and up to 75m (100 Class) of available pipe run to suit your design layout.

FLEXIBLE RETURN AIR

Option of a rear or bottom suction return allows for greater installation flexibility.

R22 RETROFIT CAPABILITY

Provides a cost effective and convenient upgrade from an existing R22 ducted system whilst retaining the field piping.

BUILT-IN CONDENSATE PUMP

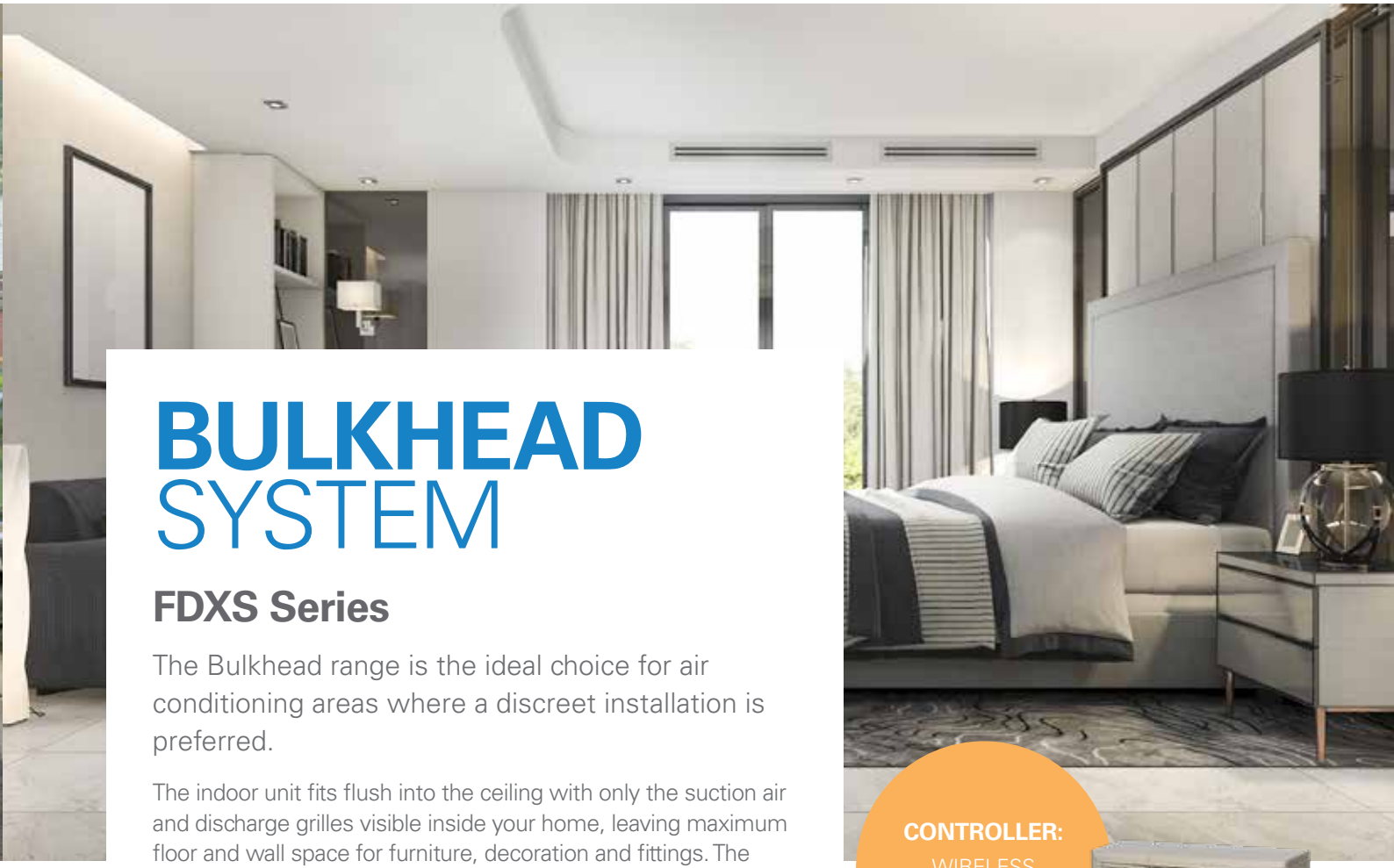
DC Condensate pump is equipped as standard with a 850mm lift.

6.0kW -TO- 16.0kW
RATED HEATING CAPACITIES

12
R32 MODELS

SINGLE + THREE
PHASE OPTIONS

Note: R32 ducted indoor units must be installed in the ceiling space, it is not to be installed under floor.



BULKHEAD SYSTEM

FDXS Series

The Bulkhead range is the ideal choice for air conditioning areas where a discreet installation is preferred.

The indoor unit fits flush into the ceiling with only the suction air and discharge grilles visible inside your home, leaving maximum floor and wall space for furniture, decoration and fittings. The Bulkhead range is truly discreet with whisper quiet operation to ensure limited impact to internal room aesthetics and acoustics.

BEST FOR:

- Heating or cooling one area of your home
- Drop ceilings & shallow ceilings
- Bedroom air conditioning

ULTRA COMPACT

Compact form factor, measuring at 200mm (H) and 620mm (D), makes it suitable for a variety of applications.

QUIET OPERATION

Noise levels are truly discrete and whisper quiet at 35dBA - 29dBA (25 Class Model).

AUTO FAN SPEED

An optimal fan speed is automatically selected to suit the set temperature for a more efficient operation.

FLEXIBLE RETURN AIR

Option of a rear or bottom suction return allows for greater installation flexibility.

NIGHT SET MODE

Temperatures are gently adjusted to prevent excessive cooling/heating for a more pleasant night's sleep.

STANDBY POWER FUNCTION

Automatically reduces energy consumption when the system is not in use.

3.2kW -TO- 7.0kW
RATED HEATING CAPACITIES

4
R410A MODELS

SINGLE
PHASE OPTIONS

CONTROL YOUR DAIKIN

At Daikin, we have a range of controllers available to control your ducted air conditioning system to suit your lifestyle needs.

White

RAL 9003 (Glossy)
BRC1H519W

Silver

RAL 9006 (Metallic)
BRC1H519S

Black

RAL 9005 (Matt)
BRC1H519K

MADOKA

Madoka earned an IF design award and Red Dot Product Design Award for its innovative design.

Available in three attractive colours, Madoka adds style and class to any interior. White offers a sleek, modern look. Silver gives an additional touch to stand out in any interior or application, while Black is an ideal match for darker, stylish interiors.

FEATURES

- Compact Design - Measuring just 85 x 85mm, Madoka is extremely compact and will easily blend into your room's decor.
- Intuitive Interface - easy to use touch button control.
- Built-In Sensor and Status Indicator - Basic functions can be performed using the 3 on-screen touch buttons (Setpoint, Operation Mode etc).
- Advanced Control - Using the Dakin Madoka app, advanced functions can be performed (scheduling, energy saving functions and servicing).

DESIGN AWARD 2018

reddot award 2018 winner

MADOKA ASSISTANT APP WITH USER FRIENDLY INTERFACE

- Advanced settings and commissioning can be easily done via your smartphone.
- Connect with your smartphone via Bluetooth Low Energy communication.
- Visual interface helps you schedule, setpoint adjustment and offers other settings for advanced users / technical managers.
- Easy and time-saving commissioning for installers.

Note: Madoka wired controller is not available for Bulkhead ducted units.

NAV EASE CONTROLLER

FEATURES

Backlit Display - Clear large, easy to read text with an intuitive interface.

Weekly Schedule Time - Program on and off times to suit your lifestyle.

Home Leave Function - Can turn your air conditioner on automatically when room temperatures drop below 10˚C.

Quick Cool / Heat Mode - Temporarily increases air conditioning power to rapidly reach your desired operating temperature, before automatically returning to normal operation.

Off Timer Feature - Automatically turns your air conditioner off after operating for a predefined time (30 - 180 mins).

Temperature Limit, to predefine a temperature range for cooling or heating cycles, helping you reduce your energy consumption.

(Included with Premium Inverter Ducted and Inverter Ducted models)

NAV EASE MODEL NO: **BRC1E63**

SPECIFICATION

HxWxD (mm)	120x120x19
Screen (Diagnal)	3.33"

Airbase compatible

Notes:

1. FDYA(N), FDYQ(N), FDMA and FBA models only. FDXS models come standard with wireless remote controller ARC433A103
2. Zone Controller cannot be used in conjunction with any other controller besides the Daikin Sub Zone Controller option
3. For a full list of features of the controllers listed here, please speak to your dealer

ZONE CONTROLLER
(ON / OFF CONTROL ONLY)

CONTROL 4 TO 8 DIFFERENT ZONES PER CONTROLLER

FEATURES

Backlit Display - Clear large, easy to read text with an intuitive interface.

Multiple Zone Control - Control up to 8 zones, each zone can be tuned on or off depending on your requirements.

Countdown On/Off Timer - Quick and easy means to set up the operations of your unit.

7 Day Time Clock - Program on and off times, including when to open/close zones and the temperature sensor to use.

Automatic Mode Changeover - Allows the unit to automatically switch between heating and cooling for year round comfort.

Filter Cleaning Reminder - Automatic notification when filter cleaning may be required.

(Optional with Premium Inverter Ducted and Inverter Ducted models)

BRC230Z4B	Up to four zones (230-240v)
BRC230Z8B	Up to eight zones (230-240v)
BRC24Z4B	Up to four zones (24v)
BRC24Z8B	Up to eight zones (24v)
BRCSZC1	Slave zone controller

SPECIFICATION

HxWxD (mm)	120x170x24
Screen (Diagnal)	3.17"

Airbase compatible

Notes:

1. FDYQ(N), FDYA(N), FDMA and FBA models only. FDXS models come standard with wireless remote controller ARC433A103
2. Airbase is not compatible with Slave Zone Controller
3. Airside Control function regulates the fan RPM between 60% to 100% of the indoor unit's rated airflow and it is only available for FDYQ & FDYA(N) series

WIRELESS REMOTE CONTROLLER

FEATURES

Intuitive Display - Clear large, easy to read text with a simple clean interface.

On/Off Timer - Program on and off times within the day to suit your needs.

Powerful Mode - Gives a boost in cooling or heating for 20 minutes beyond normal capacity.

Program Dry Function - Automatic intelligent airflow and temperature control to reduce room humidity.

Quiet Mode - Operation sound levels are reduced by 2-3dBA for quieter heating and cooling.

Econo Mode - Enables efficient operation by limiting the maximum power consumption.

(Included with Bulkhead Ducted models)

ARC433A103

AIRZONE VAF ZONING SYSTEM

The Airzone VAF Zoning System is a variable airflow zoning system compatible with Daikin's range of residential and commercial range of ducted indoor units. It offers superior comfort by providing individual temperature control in each zone and improved energy savings via its intelligent fan speed control.

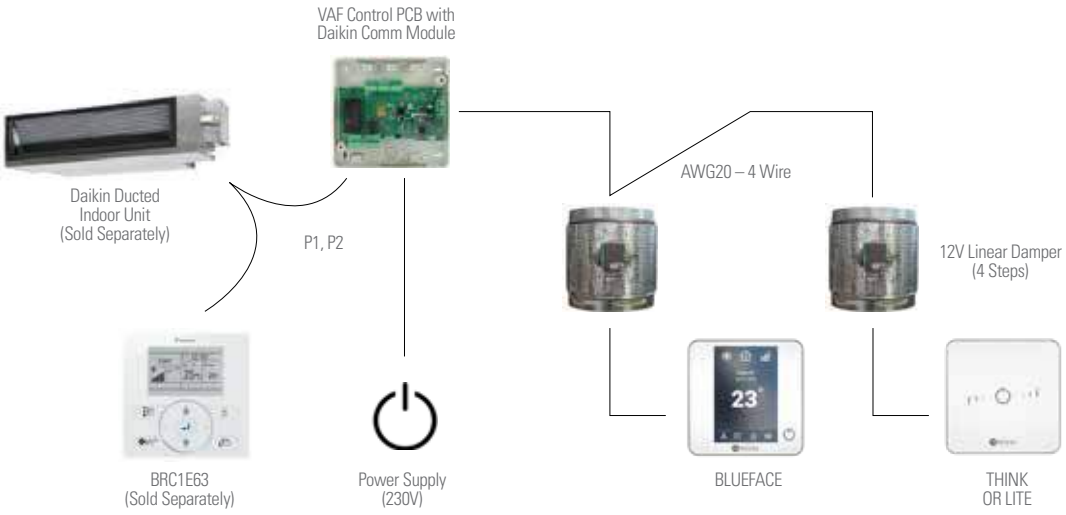
Each solution consists of Airzone touch controllers, 4-step linear dampers (12V) and a VAF control PCB with Daikin P1, P2 communication module*.

BLUEFACE

Main Controller

THINK LITE

Zone Controllers



FEATURES

Touch Controllers - Featuring premium aesthetic design with intuitive touch screen interfaces for ease of use. Available in 3 models: Blueface, Think and Lite.

Q-Adapt Algorithm - The controller automatically selects the appropriate fan speed (L/M/H) depending on number of zones opened and the demand, resulting in reduced running costs.

Individual Temperature Control - The 4-step linear dampers precisely regulate airflow into each zone ensuring optimal temperatures for all occupants in the household at anytime.

Scalable Design - Up to 10 zones can be controlled via a single VAF system and coupled with a simple control architecture, this makes scalability and installation convenient.

*A BRC1E63 (Nav Ease) will also be required for backup and servicing

AIRBASE MOBILE APP

Daikin Airbase brings all your Ducted System's features* together with a simple to use app.

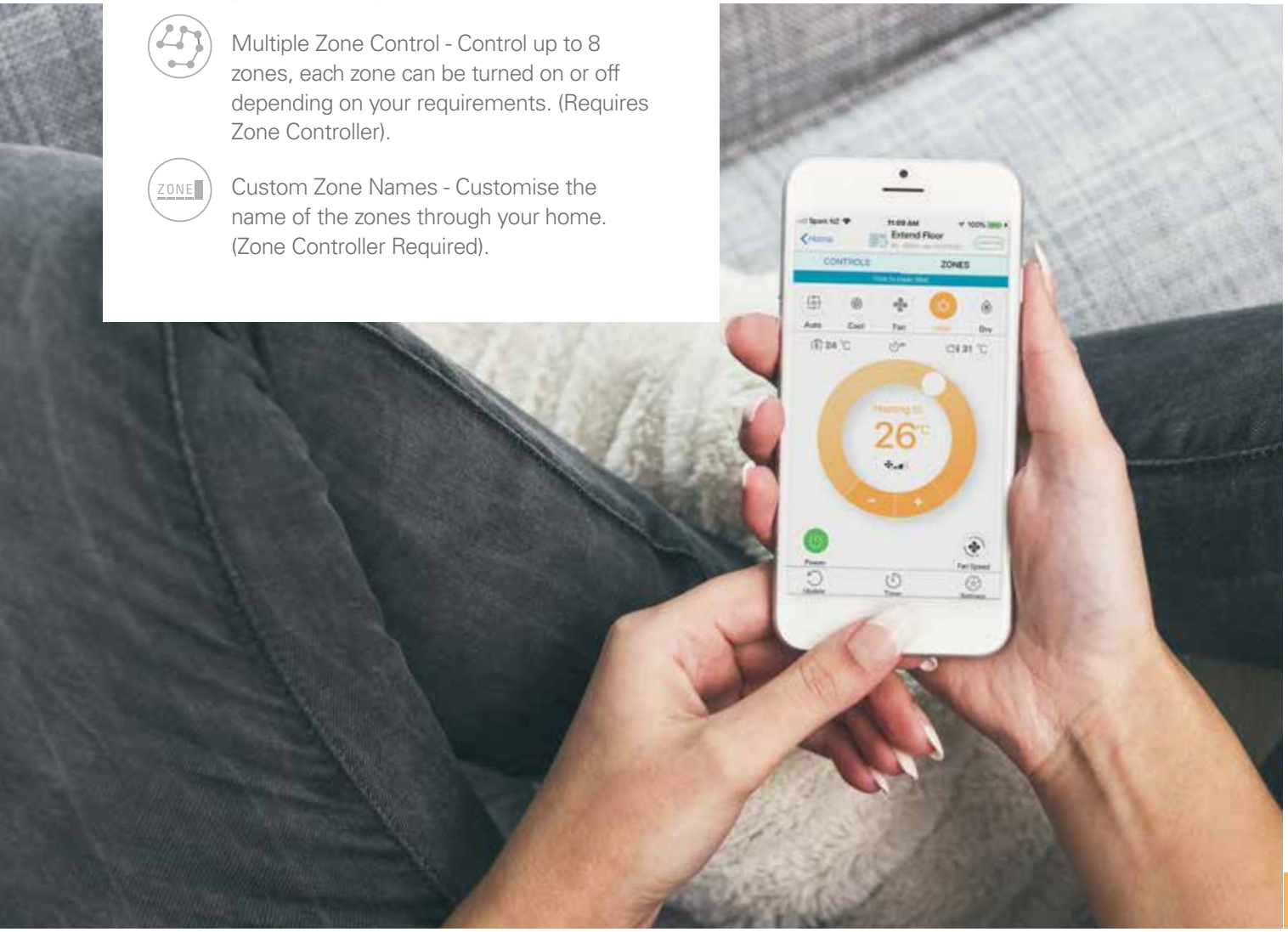
FEATURES

- Countdown On/Off Timer - Quick and easy means to set up the operations of your unit.
- Operation Mode Theming - Each operation is colour-coded for easy association.
- Filter Cleaning Reminder - Automatic notification when filter cleaning may be required.
- Zone On/Off - Turn the zones on or off in your home (requires Zone Controller).
- Multiple Zone Control - Control up to 8 zones, each zone can be turned on or off depending on your requirements. (Requires Zone Controller).
- Custom Zone Names - Customise the name of the zones through your home. (Zone Controller Required).

Download on the App Store

GET IT ON Google Play

*Some features only compatible with Daikin Zone Controller Each ducted system requires a BRP15B61 adaptor & must be connected on the same Wi-Fi network



HOW TO BUY A DAIKIN PRODUCT

Buying a new Daikin is as simple as contacting one of our trusted **Daikin Specialists**. Our Specialists have years of local experience and expertise in the air conditioning industry, ensuring that you get top quality advice and support for your needs.

IN-HOME QUOTATION

Daikin Specialists provide custom designed solutions for your home through an in-home quotation. Specialists will not only supply and install the best possible air conditioning solution but will also provide ongoing maintenance to ensure peak efficient performance over the life of the system.

To take the stress out of air conditioning your home, speak to a Daikin Specialist. With over 50 Specialist Dealers across New Zealand, we are ready to help you fit the right air conditioning solution for your home.

5 YEAR WARRANTY

DAIKIN SPLIT SYSTEMS COME WITH A 5 YEAR PARTS AND LABOUR WARRANTY TO GIVE YOU PEACE OF MIND WHEN PURCHASING A NEW DAIKIN.

Subject to Conditions

To find your nearest Daikin Specialist, visit: **www.daikin.co.nz or call 0800 20 90 10**

PRODUCT SPECIFICATION

Premium Inverter - Single Phase

R32

FDMA71AV1A

FDMA85AV1A
FDMA100AV1A
FDMA125AV1A
FDMA140AV1A

RZAV71CV1
RZAV85CV1

RZAV100CV1
RZAV125CV1
RZAV140CV1

INDOOR UNIT			FDMA71AV1A	FDMA85AV1A	FDMA100AV1A	FDMA125AV1A	FDMA140AV1A
OUTDOOR UNIT			RZAV71CV1	RZAV85CV1	RZAV100CV1	RZAV125CV1	RZAV140CV1
Power Supply			1 Phase, 200-240V, 50Hz				
Rated Capacity (Capacity Range)		Cool (kW) (Min. - Max.)	7.1 (3.2-8.0)	8.5 (4.0-10.0)	10.0 (5.0-11.2)	12.5 (5.0-14.0)	14.0 (5.0-16.0)
		Heat (kW) (Min. - Max.)	8.0 (3.5-9.0)	10.0 (4.1-11.2)	11.2 (5.1-12.5)	14.0 (5.1-16.0)	16.0 (5.1-18.0)
Power consumption		Cool (kW) / Heat (kW)	2.25 / 2.30	2.29 / 2.52	2.79 / 2.92	3.76 / 4.07	4.47 / 5.15
E.E.R		Cool (kW / kW)	3.15	3.71	3.58	3.32	3.13
C.O.P		Heat (kW / kW)	3.48	3.97	3.83	3.44	3.11
AEER[4]		Cool (kW)	3.09	3.64	3.52	3.28	3.10
ACOP[4]		Heat (kW)	3.19	3.95	3.77	3.27	3.08
TCSPF[4] (Cooling) Commercial / Residential		Hot	4.83 / 4.44	5.23 / 4.84	5.51 / 5.07	4.88 / 4.54	4.85 / 4.49
		Average	4.87 / 3.92	5.21 / 4.31	5.58 / 4.55	4.95 / 4.15	4.98 / 4.14
		Cold	5.19 / 4.01	5.51 / 4.36	5.97 / 4.68	5.28 / 4.28	5.34 / 4.31
HSPF[4] (Heating) Commercial / Residential		Hot	4.53 / 4.51	4.64 / 4.64	4.85 / 4.84	4.65 / 4.63	4.24 / 4.22
		Average	4.17 / 3.90	4.38 / 4.21	4.50 / 4.26	4.21 / 3.89	3.86 / 3.58
		Cold	3.75 / 3.44	3.95 / 3.70	4.01 / 3.69	3.55 / 3.30	3.28 / 3.06
Indoor Unit	Airflow rate (H / M / L)	ℓ/s	300 / 275 / 250	533 / 458 / 383		650 / 558 /467	
		m^3/min	18 / 16.5 / 15.0	32.0 / 27.5 / 23.0		39.0 / 33.5 / 28.0	
	External Static Pressure	Pa	Rated 50 (50-200)				
	Sound pressure level (H / M / L)	dB(A)	37.0 / 34.5 / 32.0	38 / 35.5 / 33.0		40.0 / 38.0 / 36.0	
	Sound power level (H)	dB(A)	54	55		57	
	Dimensions (HxWxD)	mm	300x1,000x700	300x1,400x700			
	Weight	kg	36	46			
	Certified Operation Range	Cool (°CWB) / Heat (°CDB)	14 to 25 / 15 to 27				
Outdoor Unit	Compressor	Type	Hermetically sealed swing type				
		Motor output (kW)	2.4	3.3			
	Refrigerant charge (R-32)	kg (Charged for 30m)	2.6	2.9	3.75		3.9
	Sound pressure level	Cool (dBA) / Heat (dBA)	48 / 50	52 / 53	51 / 53	52 / 54	56 / 58
		Night quiet mode (dBA)	44	48	47	48	52
	Sound power level	dB(A)	67	71	70	-	
	Dimensions (HxWxD)	mm	990x940x320		1,430x940x320		
	Weight	kg	69	78	93		99
	Certified Operation Range	Cool (°CDB) / Heat (°CWB)	-5 to 50 / -15 to 15.5				
Piping connections		Liquid (Flare) / Gas (Flare)	Ø 9.5 / Ø 15.9				
		Indoor unit drain (mm)	VP25 (I.D Ø25 x O.D Ø32)				
		Outdoor unit drain (mm)	Ø 26.0 (Hole)				
Max. interunit piping length		m	75 (Equivalent length 90)				
Max. installation level difference		m	30				

Notes:

i. The rated capacity is measured in accordance with AS/NZS 3823.1.2:2012

ii The cooling (or heating) output capacity will be reduced below the rated value as the outdoor temperature approaches the maximum (or minimum) outdoor temperature operating range limit.

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

iv. Values based on GEMS determination 2019.

PRODUCT SPECIFICATION

Premium Inverter - Three Phase

FDMA100AV1A
FDMA125AV1A
FDMA140AV1A

RZAV100CY1
RZAV125CY1
RZAV140CY1

R32

INDOOR UNIT			FDMA100AV1A	FDMA125AV1A	FDMA140AV1A
OUTDOOR UNIT			RZAV100CY1	RZAV125CY1	RZAV140CY1
Power Supply		Indoor / Outdoor Unit	1 Phase, 200-240V, 50Hz / 3 Phase, 380-415V, 50Hz		
Rated Capacity (Capacity Range)		Cool (kW) (Min. - Max.)	10.0 (5.0-11.2)	12.5 (5.0-14.0)	14.0 (5.0-16.0)
		Heat (kW) (Min. - Max.)	11.2 (5.1-12.5)	14.0 (5.1-16.0)	16.0 (5.1-18.0)
Power consumption		Cool (kW) / Heat (kW)	2.79 / 2.92	3.76 / 4.07	4.47 / 5.15
E.E.R		Cool (kW / kW)	3.58	3.32	3.13
C.O.P		Heat (kW / kW)	3.83	3.44	3.11
AEER[4]		Cool (kW)	3.52	3.28	3.10
ACOP[4]		Heat (kW)	3.77	3.27	3.08
TCSPF[4] (Cooling) Commercial / Residential		Hot	5.51 / 5.07	4.88 / 4.54	4.85 / 4.49
		Average	5.58 / 4.55	4.95 / 4.15	4.98 / 4.14
		Cold	5.97 / 4.68	5.28 / 4.28	5.34 / 4.31
HSPF[4] (Heating) Commercial / Residential		Hot	4.85 / 4.84	4.65 / 4.63	4.24 / 4.22
		Average	4.50 / 4.26	4.21 / 3.89	3.86 / 3.58
		Cold	4.01 / 3.69	3.55 / 3.30	3.28 / 3.06
Indoor Unit	Airflow rate (H / M / L)	ℓ/s	533 / 458 / 383	650 / 558 / 467	
		m^3/min	32.0 / 27.5 / 23.0	39.0 / 33.5 / 28.0	
	External Static Pressure	Pa	Rated 50 (50-200)		
	Sound pressure level (H / M / L)	dB(A)	38.0 / 35.5 / 33.0	40.0 / 38.0 / 36.0	
	Sound power level (H)	dB(A)	55	57	
	Dimensions (HxWxD)	mm	300x1,400x700		
	Weight	kg	46		
	Certified Operation Range	Cool (°CWB) / Heat (°CDB)	14 to 25 / 15 to 27		
Outdoor Unit	Compressor	Type	Hermetically sealed swing type		
		Motor output (kW)	3.3		
	Refrigerant charge (R-32)	kg (Charged for 30m)	3.75		3.90
	Sound pressure level	Cool (dBA) / Heat (dBA)	51 / 53	52 / 54	56 / 58
		Night quiet mode (dBA)	47	48	52
	Sound power level	dB(A)	70	-	
	Dimensions (HxWxD)	mm	1,430x940x320		
	Machine weight	kg	93		99
	Certified Operation Range	Cool (°CDB) / Heat (°CWB)	-5 to 50 / -15 to 15.5		
Piping connections		Liquid (Flare) / Gas (Flare)	Ø 9.5 / Ø 15.9		
		Indoor unit drain (mm)	VP25 (I.D Ø25 x O.D Ø32)		
		Outdoor unit drain (mm)	Ø 26.0 (Hole)		
Max. interunit piping length		m	75 (Equivalent length 90)		
Max. installation level difference		m	30		

Notes:

i. The rated capacity is measured in accordance with AS/NZS 3823.1.2:2012

ii The cooling (or heating) output capacity will be reduced below the rated value as the outdoor temperature approaches the maximum (or minimum) outdoor temperature operating range limit.

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

iv. Values based on GEMS determination 2019.

PRODUCT SPECIFICATION

Premium Inverter - Single Phase

FDYA71A
FDYA85A
FDYA100A

FDYA125A

FDYA140A
FDYA160A

RZAS71C
RZAS85C

RZAS100C
RZAS125C
RZAS140C
RZAS160C

INDOOR UNIT		FDYA71AV1	FDYA85AV1	FDYA100AV1	FDYA125AV1	FDYA140AV1	FDYA160AV1
OUTDOOR UNIT		RZAS71CV1	RZAS85CV1	RZAS100CV1	RZAS125CV1	RZAS140CV1	RZAS160CV1
Rated Capacity	Cool (kW)	7.1	8.5	10.0	12.5	14.0	16.0
	Heat (kW)	7.5	10.0	12.5	15.0	16.5	18.0
Capacity Range	Cool (kW)	3.2-8.0	4.0-10.0	5.0-11.2	5.0-14.0	5.0-16.0	7.3-17.0
	Heat (kW)	3.5-9.0	4.1-11.2	5.1-14.0	5.1-16.0	5.1-18.0	7.3-20.0
Power Input (Rated)	Cool (kW)	1.90	2.35	2.61	3.45	3.93	4.85
	Heat (kW)	1.75	2.46	3.13	3.80	4.28	4.65
E.E.R./C.O.P	Cool/Heat	3.74/4.29	3.62/4.07	3.83/3.99	3.62/3.95	3.56/3.86	3.30/3.87
TCSPF (Residential)	Hot/Average/Cold	5.21/4.52/4.58	4.90/4.32/4.39	4.69/4.23/4.27	4.57/4.18/4.26	5.00/4.55/4.69	4.77/4.38/4.56
HSPF (Residential)	Hot/Average/Cold	3.87/3.80/3.51	4.20/3.95/3.54	4.43/4.07/3.62	4.43/3.92/3.36	4.11/3.67/3.16	3.96/3.65/3.21
Airflow Rate (Nominal/Max)	l/s	425/566	580/600	680/800	755/840	900/1000	950/1120
Indoor Sound Level (H) @ 1.5m	dBA (C/H)	37.3/40.5	42.0/42.5	42.3/45.0	44.8/46.2	45.9/47.4	47.2/49.6
Piping Length	(m)	75					
Indoor Fan Speeds		H/M/L					
Dimensions (HxWxD)	Indoor (mm)	300x1210x900			360x1520x935	400x1505x980	
	Outdoor (mm)	990x940x320		1430x940x320			
Weight	Indoor (kg)	40	41	46	56	60	60
	Outdoor (kg)	69	78	93	93	93	99
Power Supply	V/Hz	1 Phase, 220-240V, 50Hz					
Compressor Type		Hermetically Sealed Swing Type					
Refrigerant		R32					
Pipe Sizes	Liquid (mm)	9.5 (Flared)					
	Gas (mm)	15.9 (Flared)					
	Drain (mm)	ID 25 / OD 32					
Supply Air Opening	mm (HxW, Flange)	185x852			245x1152	295x1152	
Return Air Opening	mm (Oval)	1x400 (Oval)		2x350 (Oval)	2x400 (Oval)		
Outdoor Operating Range	Cool (°CDB)	-5 to 50					
	Heat (°CWB)	-15 to 16					
EPA Sound Power Level	dBA	67	71	70	71	73	75
Outdoor Sound Level (H) @ 1m	Pressure dBA (C/H)	48/50	52/53	51/53	52/54	54/56	56/58

Notes:

i. The Rated Capacity, Power Input and Running Current are measured in accordance with AS/NZS 3823.1.2
Cooling: Indoor temp: 27°CDB/19°CWB, Outdoor temp: 35°CDB/24°CWB
Heating: Indoor temp: 20°CDB/15°CWB, Outdoor temp: 7°CDB/6°CWB

ii. Indoor and outdoor sound levels are determined in an anechoic chamber and may differ once the unit is installed due to ambient conditions

iii. TCSPF: Total Cooling Seasonal Performance Factor & HSPF: Heating Seasonal Performance Factor as defined under GEMS 2019 Determination

iv. R32 ducted indoor units must be installed in the ceiling space, it is not to be installed under floor

PRODUCT SPECIFICATION

Premium Inverter - Three Phase

FDYQ180LC
FDYQ200LC
FDYQ250LC

RZYQ7T
RZYQ8T
RZYQ10T
RZYQ7TA
RZYQ8TA
RZYQ10TA

					HEATING FOCUS OPTION		
INDOOR UNIT		**FDYQ180LCV1**	**FDYQ200LCV1**	**FDYQ250LCV1**	**FDYQ180LCV1**	**FDYQ200LCV1**	**FDYQ250LCV1**
OUTDOOR UNIT		**RZYQ7TY1**	**RZYQ8TY1**	**RZYQ10TY1**	**RZYQ7TAY1**	**RZYQ8TAY1**	**RZYQ10TAY1**
Rated Capacity	Cool (kW)	18.0	20.0	24.0	18.0	20.0	24.0
	Heat (kW)	20.0	22.4	26.8	20.0	22.4	26.8
Capacity Range	Cool (kW)	9.0-20.0	10.0-22.4	11.7-24.0	9.0-20.0	10.0-22.4	11.7-24.0
	Heat (kW)	10.0-22.4	11.2-25.0	13.4-26.8	10.0-22.4	11.2-25.0	13.4-26.8
Power Input (Rated)	Cool (kW)	5.61	6.08	7.47	5.61	6.08	7.47
	Heat (kW)	5.81	6.17	8.14	5.81	6.17	8.14
E.E.R./C.O.P	Cool/Heat	3.21/3.44	3.29/3.63	3.21/3.29	3.21/3.44	3.29/3.63	3.21/3.29
TCSPF (Residential)	Hot/Average/Cold	-	-	-	3.79/3.23/3.19	3.86/3.32/3.29	3.97/3.48/3.48
HSPF (Residential)	Hot/Average/Cold	-	-	-	3.21/3.15/3.0	3.42/3.35/3.20	3.60/3.37/3.15
Airflow Rate (Nominal/Max)	l/s	1160/1200	1200/1300	1400/1600	1160/1200	1200/1300	1400/1600
Indoor Sound Level (H) @ 1.5m	dBA (C/H)	45.0/45.0	44.0/44.0	46.0/46.0	45.0/45.0	44.0/44.0	46.0/46.0
Piping Length	(m)	150			165		
Indoor Fan Speeds		H/M/L					
Dimensions (HxWxD)	Indoor (mm)	470x1200x997	470x1400x997		470x1200x997	470x1400x997	
	Outdoor (mm)	1657x930x765					
Weight	Indoor (kg)	70	79	85	70	79	85
	Outdoor (kg)	192	192	203	185	185	200
Power Supply	V/Hz	3 Phase, 380-415V, 50Hz					
Compressor Type		Hermetically Sealed Scroll Type					
Refrigerant		R410A					
Pipe Sizes	Liquid (mm)	9.5 (Brazed)					
	Gas (mm)	19.1 (Brazed)		22.2 (Brazed)	19.1 (Brazed)		22.2 (Brazed)
	Drain (mm)	BSP 3/4 inch Internal Thread			BSP 3/4 inch Internal Thread		
Supply Air Opening	mm (HxW, Flange)	350x918	350x1118		350x918	350x1118	
Return Air Opening	mm (Oval)	393x918 (Flange)	393x1118 (Flange)		393x918 (Flange)	393x1118 (Flange)	
Outdoor Operating Range	Cool (°CDB)	-5 to 49					
	Heat (°CWB)	-20 to 16					
EPA Sound Power Level	dBA	-	-	-	76	76	78
Outdoor Sound Level (H) @ 1m	Pressure dBA (C/H)	56/56	56/56	57/57	56/56	56/56	57/57

Notes:

i. The Rated Capacity, Power Input and Running Current are measured in accordance with AS/NZS 3823.1.2
Cooling: Indoor temp: 27°CDB/19°CWB, Outdoor temp: 35°CDB/24°CWB
Heating: Indoor temp: 20°CDB/15°CWB, Outdoor temp: 7°CDB/6°CWB

ii. Indoor and outdoor sound levels are determined in an anechoic chamber and may differ once the unit is installed due to ambient conditions

iii. TCSPF: Total Cooling Seasonal Performance Factor & HSPF: Heating Seasonal Performance Factor as defined under GEMS 2019 Determination

iv. R32 ducted indoor units must be installed in the ceiling space, it is not to be installed under floor

PRODUCT SPECIFICATION

Inverter - Single Phase

FDYAN50A
FDYAN60A
FDYAN71A
FDYAN85A
FDYAN100A

FDYAN125A
FDYAN140A
FDYAN160A

RZA50C
RZA60C
RZA71C

RZA85C
RZA100C
RZA125C

RZA140C
RZA160C

R32

INDOOR UNIT		FDYAN50AV1	FDYAN60AV1	FDYAN71AV1	FDYAN85AV1	FDYAN100AV1	FDYAN125AV1	FDYAN140AV1	FDYAN160AV1
OUTDOOR UNIT		RZA50CV1	RZA60CV1	RZA71CV1	RZA85CV1	RZA100CV1	RZA125CV1	RZA140CV1	RZA160CV1
Rated Capacity	Cool (kW)	5.0	6.0	7.1	8.5	10.0	12.5	14.0	15.5
	Heat (kW)	6.0	7.0	7.5	10.0	12.5	15.0	16.5	18.0
Capacity Range	Cool (kW)	1.4-6.0	1.4-7.1	1.8-8.0	3.2-10.0	3.2-11.2	4.0-14.0	5.0-16.0	7.3-16.3
	Heat (kW)	1.4-7.1	1.4-8.0	2.0-9.0	3.5-11.2	3.5-14.0	4.1-16.0	5.1-18.0	7.3-18.2
Power Input (Rated)	Cool (kW)	1.35	1.78	2.20	2.53	3.10	3.94	4.30	4.95
	Heat (kW)	1.62	1.95	1.93	2.80	3.35	4.00	4.50	4.90
E.E.R./C.O.P	Cool/Heat	3.70/3.70	3.37/3.59	3.23/3.89	3.36/3.57	3.23/3.73	3.17/3.75	3.26/3.67	3.13/3.67
TCSPF (Residential)	Hot/Average/Cold	4.43/3.74/3.68	4.36/3.77/3.78	4.43/3.88/3.94	4.29/3.85/3.90	4.28/3.88/3.97	4.26/3.91/4.02	4.19/3.87/3.97	4.05/3.76/3.87
HSPF (Residential)	Hot/Average/Cold	4.51/4.02/3.49	4.46/3.76/3.15	4.17/3.85/3.41	3.97/3.67/3.32	3.85/3.48/3.04	4.31/3.31/2.77	3.90/3.51/3.05	3.87/3.53/3.12
Airflow Rate (Nominal/Max)	l/s	315/370	340/400	425/566	580/600	680/800	755/840	900/1000	950/1120
Indoor Sound Level (H) @ 1.5m	dBA (C/H)	33.3/35.0	34.1/35.9	37.3/40.5	42.0/42.4	43.5/45.8	44.2/45.5	46.6/47.9	47.9/50.7
Piping Length	(m)	50							
Indoor Fan Speeds		H/M/L							
Dimensions (HxWxD)	Indoor (mm)	300x1210x900					360x1520x935		
	Outdoor (mm)	595x845x300			990x940x320			1430x940x320	
Weight	Indoor (kg)	37	37	40	40	45	55	55	56
	Outdoor (kg)	45	45	45	69	69	78	93	99
Power Supply	V/Hz	1 Phase, 220-240V, 50Hz							
Compressor Type		Hermetically Sealed Swing Type							
Refrigerant		R32							
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, Flange)	185x852					245x1152		
Return Air Opening	mm (Oval)	1x400 (Oval)				2x350 (Oval)	2x400 (Oval)		
Outdoor Operating Range	Cool (°CDB)	-5 to 46							
	Heat (°CWB)	-15 to 16							
EPA Sound Power Level	dBA	68	68	68	70	71	72	73	75
Outdoor Sound Level (H) @ 1m	Pressure dBA (C/H)	48/51	48/51	48/51	51/54	52/54	53/56	54/56	56/58

Notes:

i. The Rated Capacity, Power Input and Running Current are measured in accordance with AS/NZS 3823.1.2
Cooling: Indoor temp: 27°CDB/19°CWB, Outdoor temp: 35°CDB/24°CWB
Heating: Indoor temp: 20°CDB/15°CWB, Outdoor temp: 7°CDB/6°CWB

ii. Indoor and outdoor sound levels are determined in an anechoic chamber and may differ once the unit is installed due to ambient conditions

iii. TCSPF: Total Cooling Seasonal Performance Factor & HSPF: Heating Seasonal Performance Factor as defined under GEMS 2019 Determination

iv. R32 ducted indoor units must be installed in the ceiling space, it is not to be installed under floor

PRODUCT SPECIFICATION

Inverter - Three Phase

FDYAN71A
FDYAN85A
FDYAN100A

FDYAN125A
FDYAN140A
FDYAN160A

FDYQN180LC
FDYQN200LC

FDYQN250LB

RZA71C
RZA85C
RZA100C
RZA125C

RZA140C
RZA160C
RZQ180M
RZQ200M

RZQ250L

INDOOR UNIT		FDYAN71AV1	FDYAN85AV1	FDYAN100AV1	FDYAN125AV1	FDYAN140AV1	FDYAN160AV1	FDYQN180LCV1	FDYQN200LCV1	FDYQN250LBV1
OUTDOOR UNIT		RZA71CY1	RZA85CY1	RZA100CY1	RZA125CY1	RZA140CY1	RZA160CY1	RZQ180MY1	RZQ200MY1	RZQ250LY1
Rated Capacity	Cool (kW)	7.1	8.5	10.0	12.5	14.0	15.5	18.0	19.5	23.5
	Heat (kW)	7.5	10.0	12.5	15.0	16.5	18.0	20.0	22.4	26.8
Capacity Range	Cool (kW)	3.2-8.0	3.2-10.0	3.2-11.2	4.0-14.0	5.0-16.0	7.3-16.3	9.0-18.0	10.1-19.5	15.0-23.5
	Heat (kW)	3.5-9.0	3.5-11.2	3.5-14.0	4.1-16.0	4.1-18.0	7.3-18.2	10.0-20.0	11.2-22.4	16.8-26.8
Power Input (Rated)	Cool (kW)	2.20	2.53	3.10	3.94	4.30	4.95	5.82	6.11	7.85
	Heat (kW)	1.93	2.80	3.35	4.00	4.50	4.90	6.11	6.85	8.47
E.E.R./C.O.P	Cool/Heat	3.23/3.89	3.36/3.57	3.23/3.73	3.17/3.75	3.26/3.67	3.13/3.67	3.09/3.27	3.19/3.27	2.99/3.16
TCSPF (Residential)	Hot/Average/Cold	4.44/3.92/4.00	4.29/3.85/3.90	4.28/3.88/3.97	4.26/3.91/4.02	4.19/3.87/3.97	4.05/3.76/3.87	3.61/3.15/3.13	3.57/3.14/3.11	3.73/3.41/3.46
HSPF (Residential)	Hot/Average/Cold	4.17/3.90/3.55	3.97/3.67/3.32	3.85/3.48/3.04	4.31/3.31/2.77	3.90/3.51/3.05	3.87/3.53/3.12	3.23/2.95/2.61	3.25/2.97/2.63	3.41/3.08/2.72
Airflow Rate (Nominal/Max)	l/s	425/566	580/600	680/800	755/840	900/1000	950/1120	1160/1200	1400/1600	1400/1600
Indoor Sound Level (H) @ 1.5m	dBA (C/H)	37.3/40.5	42.0/42.4	43.5/45.8	44.2/45.5	46.6/47.9	47.9/50.7	45.0/45.0	46.0/46.0	49.5/49.5
Piping Length	(m)	50								
Indoor Fan Speeds		H/M/L								
Dimensions (HxWxD)	Indoor (mm)	300x1210x900			360x1520x935			470x1200x997	470x1400x997	500x1430x970
	Outdoor (mm)	990x940x320				1430x940x320				1680x930x765
Weight	Indoor (kg)	40	40	45	55	55	56	70	85	92
	Outdoor (kg)	69	69	69	78	93	99	138	138	193
Power Supply	V/Hz	3 Phase, 380-415V, 50Hz								
Compressor Type		Hermetically Sealed Swing Type						Hermetically Sealed Scroll Type		
Refrigerant		R32						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, Flange)	185x852			245x1152			350x918	350x1118	376x938
Return Air Opening	mm (Oval)	1x400 (Oval)		2x350 (Oval)	2x400 (Oval)			393x918 (Flange)	393x1118 (Flange)	350x1118 (Flange)
Outdoor Operating Range	Cool (°CDB)	-5 to 46						-5 to 43		
	Heat (°CWB)	-15 to 16						-20 to 16		
EPA Sound Power Level	dBA	67	70	71	72	73	75	72	74	79
Outdoor Sound Level (H) @ 1m	Pressure dBA (C/H)	48/50	51/54	52/54	53/56	54/56	56/58	57/58	58/59	57/58

Notes:

i. The Rated Capacity, Power Input and Running Current are measured in accordance with AS/NZS 3823.1.2
Cooling: Indoor temp: 27°CDB/19°CWB, Outdoor temp: 35°CDB/24°CWB
Heating: Indoor temp: 20°CDB/15°CWB, Outdoor temp: 7°CDB/6°CWB

ii. Indoor and outdoor sound levels are determined in an anechoic chamber and may differ once the unit is installed due to ambient conditions

iii. TCSPF: Total Cooling Seasonal Performance Factor & HSPF: Heating Seasonal Performance Factor as defined under GEMS 2019 Determination

iv. R32 ducted indoor units must be installed in the ceiling space, it is not to be installed under floor

PRODUCT SPECIFICATION

Slimline - Single + Three Phase

R32

FBA50BAVMA
FBA60BAVMA
FBA71BVMA

FBA85BVMA
FBA100BVMA
FBA125BVMA
FBA140BVMA

RZAV50C
RZAV60C

RZAV71C
RZAV85C

RZAV100C
RZAV125C
RZAV140C

INDOOR UNIT			FBA50BAVMA	FBA60BAVMA	FBA71BVMA	FBA85BVMA	FBA100BVMA	FBA125BVMA	FBA140BVMA
OUTDOOR UNIT			RZAV50CV1	RZAV60CV1	RZAV71CV1	RZAV85CV1	RZAV100CV1	RZAV125CV1	RZAV140CV1
Power Supply		Indoor/Outdoor	1 Phase, 220-240V, 50Hz						
Rated Capacity (Capacity Range)		Cool (kW)	5.0 (1.4-6.0)	6.0 (1.4-7.1)	7.1 (3.2-8.0)	8.5 (4.0-10.0)	10.0 (5.0-11.2)	12.5 (5.0-14.0)	14.0 (5.0-16.0)
		Heat (kW)	6.0 (1.4-7.1)	7.1 (1.4-8.0)	8.0 (3.5-9.0)	10.0 (4.1-11.2)	11.2 (5.1-12.5)	14.0 (5.1-16.0)	16.0 (5.1-18.0)
Power consumption		Cool (kW) / Heat (kW)	1.37 / 1.41	1.67 / 1.71	2.02 / 1.99	2.30 / 2.50	2.72 / 2.81	3.68 / 3.72	4.08 / 4.51
E.E.R		Cool(kW)	3.65	3.60	3.51	3.70	3.68	3.40	3.43
C.O.P		Heat (kW)	4.26	4.14	4.02	4.00	3.99	3.76	3.55
Indoor Unit	Fan airflow rate (H / M / L)	ℓ/s	300 / 250 / 208		383 / 325 / 267	533 / 450 / 375		600 / 508 / 417	
		m^3/min	18.0 / 15.0 / 12.5		23.0 / 19.5 / 16.0	32.0 / 27.0 / 22.5		36.0 / 30.5 / 25.0	
	Fan external static pressure		Rated 50 (50-150)						
	Sound pressure level (H / M / L)	dBA	35.0 / 33.0 / 31.0		38.0 / 35.0 / 33.0	38.0 / 35.5 / 33.0		40.0 / 37.5 / 35.0	
	Sound power level (H)	dBA	63		66			68	
	Dimensions (HxWxD)	mm	245x1,000x800			245x1,400x800			
	Machine weight	kg	37			47			
	Certified Operation Range	Cool (°CWB) / Heat (°CDB)	14 to 25 / 15 to 27						
Outdoor Unit	Compressor	Type	Hermetically sealed swing type						
		Motor output (kW)	1.30		2.40	3.30			
	Refrigerant charge (R-32)	kg (Charged for 30m)	1.35		2.60	2.90	3.75		3.90
	Sound pressure level	Cool (dBA) / Heat (dBA)	48/51		48/50	52/53	51/53	52/54	56/58
		Night quiet mode (dBA)	44			48	47	48	52
	Sound power level	dBA	68		67	71	70	-	-
	Dimensions (HxWxD)	mm	595x845x300		990x940x320		1,430x940x320		
	Machine weight	kg	45		69	78	93		99
	Certified Operation Range	Cool (°CDB) / Heat (°CWB)	-5 to 50 / -15 to 15.5						
Piping connections - Drain		Liquid (Flare) / Gas (Flare)	Ø 6.4 / Ø 12.7		Ø 9.5 / Ø 15.9				
		Indoor unit (mm)	VP25 (I.D Ø25 x O.D Ø32)						
		Outdoor unit (mm)	Ø 26.0 (Hole)						
Max. interunit piping length		m	50 (Equivalent length 70)		75 (Equivalent length 90)				
Max. installation level difference		m	30						

Notes:

i. The Rated Capacity, Power Input and Running Current are measured in accordance with AS/NZS 3823.1.2
Cooling: Indoor temp: 27°CDB/19°CWB, Outdoor temp: 35°CDB/24°CWB
Heating: Indoor temp: 20°CDB/15°CWB, Outdoor temp: 7°CDB/6°CWB

ii. Indoor and outdoor sound levels are determined in an anechoic chamber and may differ once the unit is installed due to ambient conditions

iii. TCSPF: Total Cooling Seasonal Performance Factor & HSPF: Heating Seasonal Performance Factor as defined under GEMS 2019 Determination

iv. R32 ducted indoor units must be installed in the ceiling space, it is not to be installed under floor

PRODUCT SPECIFICATION

Slimline - Single + Three Phase

R32

FBA71BVMA

FBA85BVMA
FBA100BVMA
FBA125BVMA
FBA140BVMA

RZAV71CY1
RZAV85CY1

RZAV100CY1
RZAV125CY1
RZAV140CY1

INDOOR UNIT			FBA71BVMA	FBA85BVMA	FBA100BVMA	FBA125BVMA	FBA140BVMA
OUTDOOR UNIT			RZAV71CY1	RZAV85CY1	RZAV100CY1	RZAV125CY1	RZAV140CY1
Power Supply		Indoor / Outdoor	3 Phase, 380-415V, 50Hz				
Rated Capacity (Capacity Range)		Cool (kW)	7.1 (3.2-8.0)	8.5 (4.0-10.0)	10.0 (5.0-11.2)	12.5 (5.0-14.0)	14.0 (5.0-16.0)
		Heat (kW)	8.0 (3.5-9.0)	10.0 (4.1-11.2)	11.2 (5.1-12.5)	14.0 (5.1-16.0)	16.0 (5.1-18.0)
Power consumption		Cool (kW) / Heat (kW)	2.02 / 1.99	2.30 / 2.50	2.72 / 2.81	3.68 / 3.72	4.08 / 4.51
E.E.R		Cool(kW)	3.51	3.70	3.68	3.40	3.43
C.O.P		Heat (kW)	4.02	4.00	3.99	3.76	3.55
Indoor Unit	Fan airflow rate (H / M / L)	ℓ/s	383 / 325 / 267	533 / 450 / 375		600 / 508 / 417	
		m^3/min	23.0 / 19.5 / 16.0	32.0 / 27.0 / 22.5		36.0 / 30.5 / 25.0	
	Fan external static pressure		Rated 50 (50-150)				
	Sound pressure level (H / M / L)	dBA	38.0 / 35.0 / 33.0	38.0 / 35.5 / 33.0		40.0 / 37.5 / 35.0	
	Sound power level (H)	dBA	66			68	
	Dimensions (HxWxD)	mm	245x1,000x800	245x1,400x800			
	Machine weight	kg	37	47			
	Certified Operation Range	Cool (°CWB) / Heat (°CDB)	14 to 25 / 15 to 27				
Outdoot Unit	Compressor	Type	Hermetically sealed swing type				
		Motor output (kW)	2.40	3.30			
	Refrigerant charge (R-32)	kg (Charged for 30m)	2.60	2.90	3.75		3.90
	Sound pressure level	Cool (dBA) / Heat (dBA)	48 / 50	52 / 53	51 / 53	52 / 54	56 / 58
		Night quiet mode (dBA)	44	48	47	48	52
	Sound power level	dBA	67	71	70	-	-
	Dimensions (HxWxD)	mm	990x940x320		1,430x940x320		
	Machine weight	kg	69	78	93		99
	Certified Operation Range	Cool (°CDB) / Heat (°CWB)	-5 to 50 / -15 to 15.5				
Piping connections - Drain		Liquid (Flare) / Gas (Flare)	Ø 9.5 / Ø 15.9				
		Indoor unit (mm)	VP25 (I.D Ø25 x O.D Ø32)				
		Outdoor unit (mm)	Ø 26.0 (Hole)				
Max. interunit piping length		m	75 (Equivalent length 90)				
Max. installation level difference		m	30				

Notes:

i. The Rated Capacity, Power Input and Running Current are measured in accordance with AS/NZS 3823.1.2
Cooling: Indoor temp: 27°CDB/19°CWB, Outdoor temp: 35°CDB/24°CWB
Heating: Indoor temp: 20°CDB/15°CWB, Outdoor temp: 7°CDB/6°CWB

ii. Indoor and outdoor sound levels are determined in an anechoic chamber and may differ once the unit is installed due to ambient conditions

iii. TCSPF: Total Cooling Seasonal Performance Factor & HSPF: Heating Seasonal Performance Factor as defined under GEMS 2019 Determination

iv. R32 ducted indoor units must be installed in the ceiling space, it is not to be installed under floor

PRODUCT SPECIFICATION

Bulkhead - Single Phase

FDXS25L
FDXS35L
FDXS50L
FDXS60L

RXS25LB
RXS35LB

RXS50LB

RXS60LB

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	Cool/Heat	3.48/3.52	3.30/3.51	3.33/3.37	3.14/3.23
Airflow Rate (Rated)	l/s	158	200	267	267
Indoor Sound Level (H) @ 1.5m	dBA (H/M/L/SL)	35/33/31/29	37/35/33/31	38/36/34/32	38/36/34/32
Piping Length	(m)	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	30
	Outdoor (kg)	34	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, Flange)	153x860		153x1060	
Return Air Opening	mm (Oval)	160x780		160x980	
Outdoor Operating Range	Cool (°CDB)	10 to 46			
	Heat (°CWB)	-15 to 18			
EPA Sound Power Level	dBA	62	63	65	68
Outdoor Sound Level (H) @ 1m	Pressure dBA (C/H)	47/48	49/49	50/51	52/54

Notes:

i. The Rated Capacity, Power Input and Running Current are measured in accordance with AS/NZS 3823.1.2
Cooling: Indoor temp: 27°CDB/19°CWB, Outdoor temp: 35°CDB/24°CWB
Heating: Indoor temp: 20°CDB/15°CWB, Outdoor temp: 7°CDB/6°CWB

ii Indoor and outdoor sound levels are determined in an anechoic chamber and may differ once the unit is installed due to ambient conditions

FEATURES AND BENEFITS

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 heat pumps.

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 temperature range for cooling or heating, to reduce energy consumption.

HOME LEAVE
Ideal for cold climates, when activated, home leave turns your heat pump on automatically when room temperatures drop below 10˚C, keeping your home at or above 10˚C so it never gets really cold.

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 heat pump'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 pre-set temperature before the fan switches on, ensuring only warm air is discharged and 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.

AUTOMATIC FUNCTIONS

AUTO RESTART AFTER POWER FAILURE
The heat pump 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 and 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.

TIMER CONTROL

24 HOUR ON/OFF TIMER
This timer can be pre-set to start and stop at any time within a 24 hour period.

NIGHT SET MODE
A timer off circuit gradually adjusts pre-set cooling and heating levels, preventing sudden temperature changes during the night and improving economy.

SEVEN DAY TIME CLOCK
This allows you to program your heat pump to turn on or off at set times for every day of the week.

Note: Not all features available on all models – Please refer to checklist on page 35

FEATURES CHECKLIST

	R32 HSP / MSP NZ ONLY (71-140 CLASS)	R32 PREMIUM INVERTER (71-160 CLASS)	PREMIUM INVERTER (180-250 CLASS)	R32 SLIM-LINE	BULKHEAD	R32 INVERTER (50-160 CLASS)	INVERTER (180-250 CLASS)
	FDMA71AV1A FDMA85AV1A FDMA100AV1A FDMA125AV1A FDMA140AV1A	FDYA71AV1 FDYA85AV1 FDYA100AV1 FDYA125AV1 FDYA160AV1	FDYQ180LCV1 FDYQ200LCV1 FDYQ250LCV1	FBA50BAVMA FBA60BAVMA FBA71BVMA FBA85BVMA FBA100BVMA FBA125BVMA FBA140BVMA	FDXS25LVMA FDXS35LVMA FDXS50LVMA FDXS60LVMA	FDYAN50AV1 FDYAN60AV1 FDYAN71AV1 FDYAN85AV1 FDYAN100AV1 FDYAN125AV1 FDYAN140AV1 FDYAN160AV1	FDYQN180LCV1 FDYQN200LCV1 FDYQN250LBV1
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	✓[1]	✓[1]	✓[1]	✓[1]		✓[1]	✓[1]
Home Leave	✓[1]	✓[1]	✓[1]	✓[1]		✓[1]	✓[1]
Auto Restart After Power Failure	✓	✓	✓	✓	✓	✓	✓
Self Diagnostics	✓	✓	✓	✓	✓	✓	✓
Anti-Corrosion Coating for Outdoor Heat Exchanger	✓	✓	✓	✓	✓	✓	✓
Indoor Unit Designed and Built in Australia		✓	✓			✓	✓
Long Piping Length	✓	✓	✓	✓		✓	✓
High Strength Galvanized Steel Casing	✓	✓	✓	✓	✓	✓	✓
Night Quiet Mode	✓[2]	✓[2]	✓[2]	✓[2]		✓[2]	✓[2]
Low Noise Operation	✓[3]	✓[3]	✓[3]	✓[3]		✓[3]	✓[3]
Program Dry Mode	✓	✓	✓	✓	✓	✓	✓
Intelligent Defrost	✓	✓	✓	✓	✓	✓	✓
Hot Start	✓	✓	✓	✓	✓	✓	✓
Quick Cool / Heat – Powerful Mode	✓	✓	✓	✓	✓	✓	✓
Automatic Fan Speed					✓		
Automatic Airflow Adjustment	✓	✓	✓	✓		✓	✓[4]
Indoor Fan Cycles with Compressor	✓[5]	✓[5]	✓[5]	✓[5]		✓[5]	✓[5]
24 Hour On/Off Timer	✓	✓	✓	✓	✓	✓	✓
Night Set Mode					✓[2]		
Seven Day Time Clock	✓	✓	✓	✓		✓	✓
Electronic Control System	✓	✓	✓	✓	✓	✓	✓
Airside Control		✓[6]	✓[6]			✓[6]	
Wireless LAN Connection	✓[7]	✓[7]	✓[7]	✓[7]		✓[7]	✓[7]
R22 Retrofit Capability	✓	✓	✓[8]	✓		✓	

1. Only available on Nav Ease
2. Night Quiet and Night Set modes may reduce capacity
3. Low noise operation requires optional PCB
4. Only available on FDYQN180-200LCV1
5. Can be set up by installer during installation
6. Only available on Zone Controller
7. Optional accessory & only compatible with Nav Ease or Zone Controller
8. Only available when connected to RZYQ-TY1

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.

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 Air Conditioning New Zealand Limited (ISO 9001)
QMS42380
Auckland

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)

DEALER

For all sales enquiries email:
sales @daikin.co.nz

For customer service or technical support:
0800 209 010

daikin.co.nz