DAIKIN

VRV R SERIES

VRV R
Heat Recovery Series

Fully integrated solution with heat recovery for maximum efficiency.

PFVRVAU0822

VRT SMART

Design and installation flexibility

Benefits for consultants

› Part load efficiency is optimised to minimise energy consumption in real world conditions
› Increased piping lengths between ODU and IDU provide additional application flexibility compared to previous VRV systems
› Wide variety of connectable indoor units

Benefits for contractors

› Engineered for ease of installation and service with three-segment panel design
› Easy access to the main PCB without removing the front panel
› Automatic refrigerant charge function automates the charging of proper refrigerant to contribute to optimised operation efficiency, higher quality and easier installation

Benefits for building managers

› Sealed electrical component box (IP55) prevents the ingress of debris water/solids (dust, gecko, etc.) that would normally lead to unexpected failures
› Refrigerant cooling circuit enables operation in high outdoor temperatures up to 49°C
› Unit backup and compressor backup ensure continuous operation

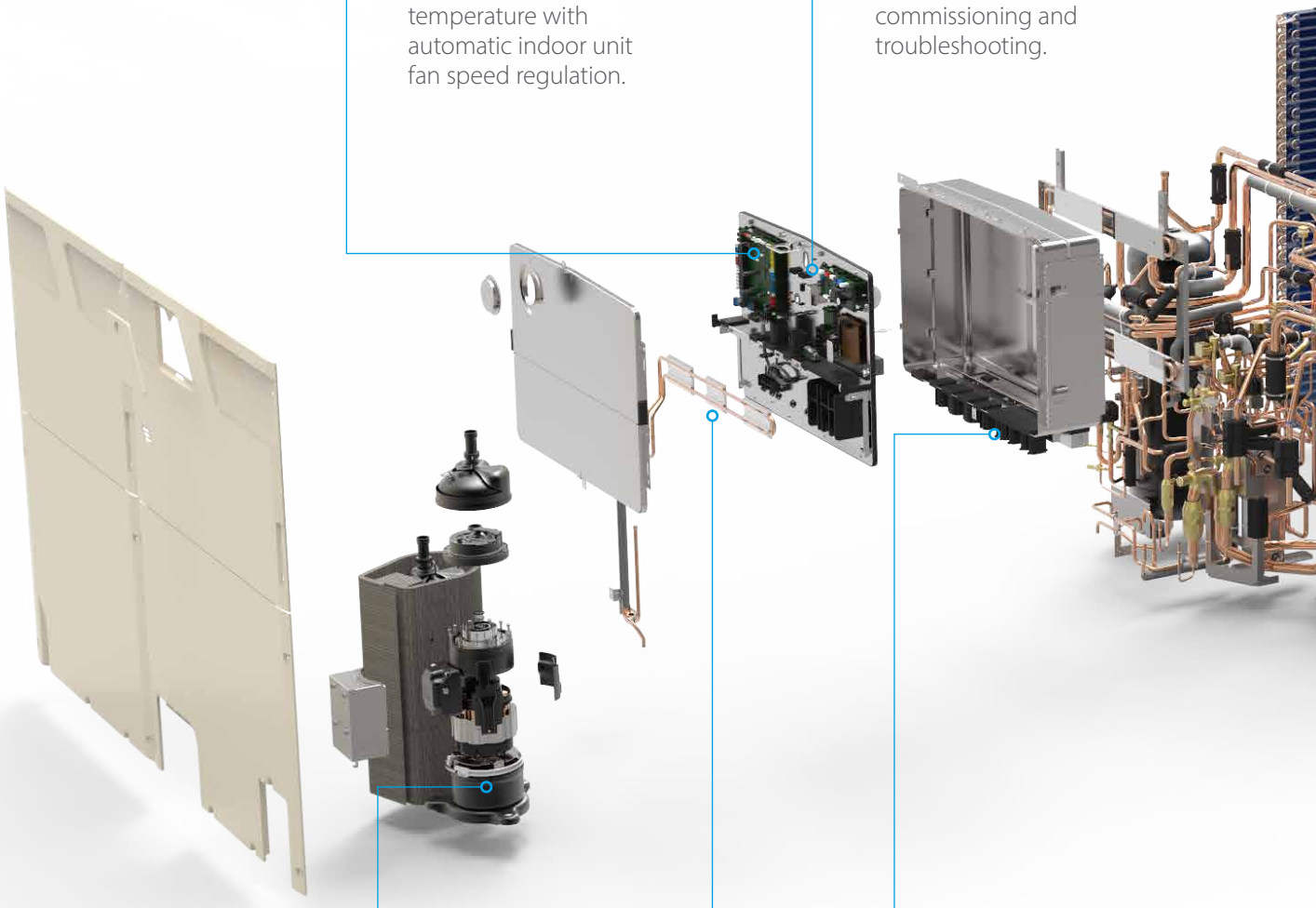
Benefits for building owners

› Compact footprint enables the return of valuable leasable space to building owners and living space to tenants
› Installation space and cost are reduced by large–capacity casing for 22 & 24 Class
› Further improvement of energy saving by high efficiency compressor and VRT Smart Control
› VRT Smart operation maintains the indoor temperature and ensures a comfortable environment whilst providing energy savings

Unique new functions for increased energy efficiency and optimal performance

VRT SMART TECHNOLOGY
Variable refrigerant temperature with automatic indoor unit fan speed regulation.

7 SEGMENT DIGITAL DISPLAY
Allows for easy commissioning and troubleshooting.



HIGH EFFICIENCY P-TYPE COMPRESSOR
Optimised for part load performance and delivers a part load EER of up to 7.82.

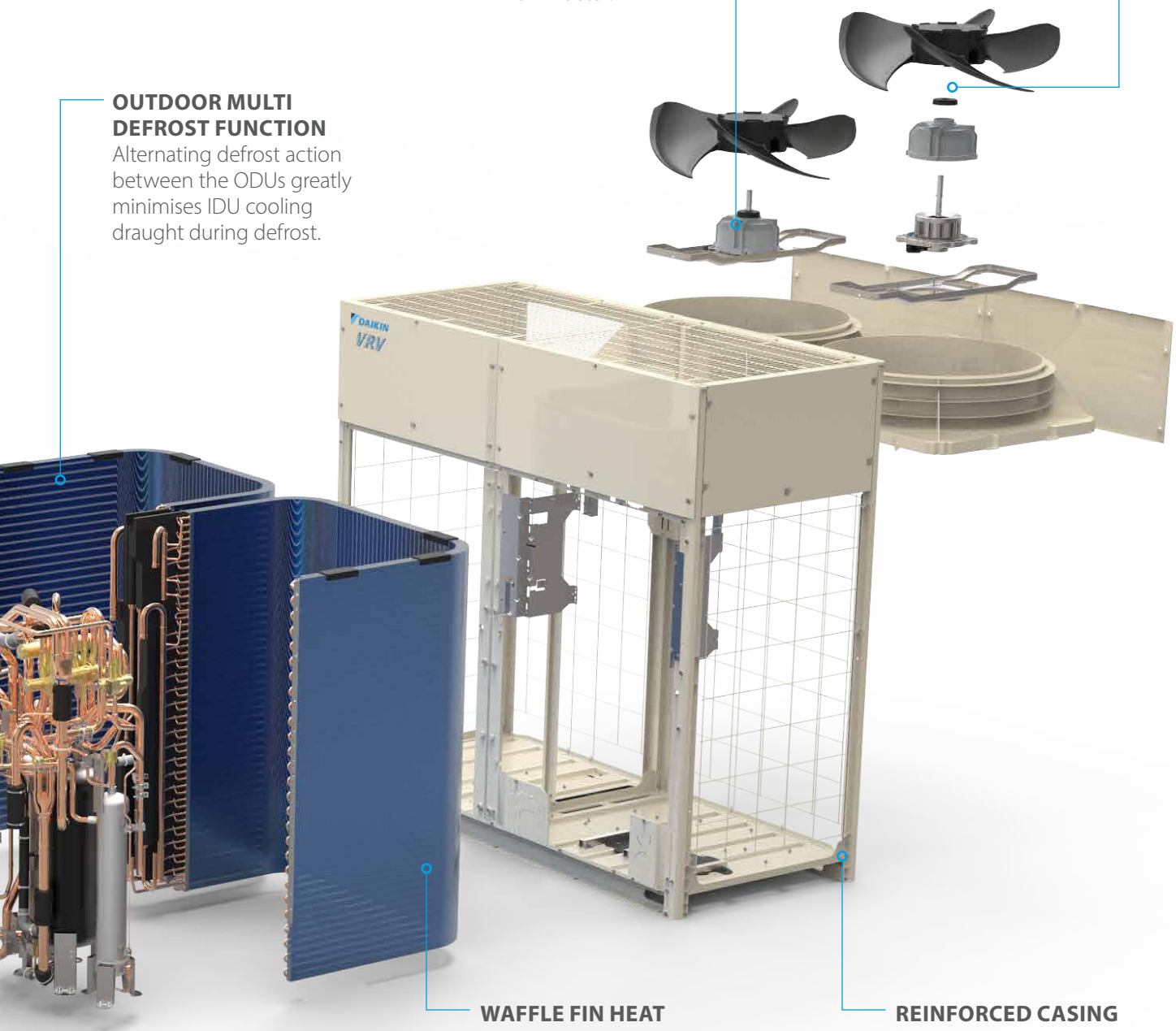
REFRIGERANT COOLED PCB
Enables max operation limit of up to 49°C ambient conditions.

IP55 ELECTRICAL COMPONENT BOX
Blocks the ingress of debris and moisture to prevent unexpected failures.

OUTER ROTOR DC MOTOR
10 pole DC outer diameter rotor motor for improved torque delivery in a compact form factor.

PROPELLER FAN
Sharp edge fan blade curvature reduces vibration and pressure loss.

OUTDOOR MULTI DEFROST FUNCTION
Alternating defrost action between the ODUs greatly minimises IDU cooling draught during defrost.



WAFFLE FIN HEAT EXCHANGER
Maximum surface area for greater heat exchange and COP.

REINFORCED CASING DESIGN
Improved frame structure provides better resistance to the elements.

VRV 40TH

The launch of Daikin's first VRV air conditioning in 1982 represented the world's first use of variable refrigerant flow control. Since then, Daikin VRV Systems have continually set the standard for energy efficiency, reliability and comfort in commercial buildings.

The new standard for indoor comfort and efficiency

VRV R Series (REYQ-BYM) is the newest addition to Daikin's flagship VRV range, enabling simultaneous cooling and heating operation in a single VRV system, and offering improvements in design, capacity, ease of installation, reliability, comfort, heat recovery and energy savings.

Key features

Compact modular design
22 & 24HP model sits at just 1,750mm wide x 765mm deep x 1,660mm tall representing a 4% reduction in total footprint and 11% reduction in weight compared to the 5th generation VRV Series.

Significantly improved energy efficiency
High Efficiency P-Type Compressor delivers an efficiency improvement of up to 25%* compared to 5th generation VRV Series, while VRT Smart Control ensures building comfort and low energy consumption.

Engineered for ease of installation and service
Sealed electrical box with ingress protection rating of IP55 providing high dust and moisture protection, new service window provides access to multi-functional digital display for easy commissioning and troubleshooting, separate wiring and piping provides quick access for installation and service.

Increased refrigerant piping length and height difference extension
Refrigerant piping lengths of up to 165m are possible. The maximum height difference between the indoor unit and the outdoor unit has been extended to 110m, which is an improvement of 20m from the 5th generation model.

XL Casing (REYQ22-24BYM)
1,660(H) x 1,750(W) x 765(D) mm

4%↓ Footprint

11%↓ Weight

L Casing (REYQ14-20BYM)
1,660(H) x 1,240(W) x 765(D) mm

M Casing (REYQ8-12BYM)
1,660(H) x 930(W) x 765(D) mm

New VRV Multi Branch Selector units
Daikin heat recovery systems utilise a 3-pipe system with Branch Selector Units (BS Units) that regulate the refrigerant to each zone and allow the individual switching of indoor units between heating and cooling. The new 4 to 12 multi port models now feature improved insulation negating the need for a condensate drain connection.

Multi Port BS Unit (BS-Q14B(A)VM)
- 4, 6, 8, 10, 12 & 16 port models
- 16.0kW per port, 28.0kW by merging 2 ports
- Ideal for central location on floor plan
- Drainless for 4 – 12 port models

Single Port BS Unit (BSQ-AVE)
- 3 models from 100, 160 & 250 Class
- Independent zone control
- Compact, quiet & drainless

VRT SMART

3 YEAR WARRANTY

*3 Year Parts & Labour Warranty on new generation VRV R models REYQ8-24BYM

*At 50% part load EER

ASSUMPTIONS

All representations made in Daikin marketing and promotional material are based on the assumptions that the correct equipment has been selected, appropriately sized and installed in accordance with Daikin's installation instructions and standard industry practices.

QUALITY CERTIFICATIONS

Daikin Industries Limited was the first air conditioning equipment manufacturer in Japan to receive ISO 9001 certification. All Daikin manufacturing facilities have been certified to ISO 9001 Quality Management System requirements. ISO 9001 is a certificate for quality assurance concerning 'design, development, manufacturing, installation and related service' of products manufactured at that factory.

Residential Air Conditioning
Manufacturing Div (ISO 9001)
JQA-0486 May 2, 1994
(Shiga Plant)

Commercial Air Conditioning and Refrigeration
Manufacturing Div (ISO 9001)
JMI0107 December 28, 1992
(Kanaoka Factory and Rinkai Factory at Sakai Plant)

ENVIRONMENTAL CERTIFICATIONS

Daikin Industries Limited has received ISO 14001 Environmental Certification for the Daikin production facilities listed below. ISO 14001 is an international standard specifying requirement for an environmental management system, enabling an organisation to formulate policy and objectives, taking into account legislative requirements and information about significant environmental impacts. It applies to those environmental aspects within the organisation's control and over which it can be expected to have an influence.

The certification relates only to the environmental management system and does not constitute any endorsement of the products shipped from the facility by the International Organisation for Standardisation.

Head Office / Tokyo Office	Certificate number: EC02J0355
Shiga Plant (Japan)	Certificate number: EC99J2044
Sakai Plant (Japan)	Certificate number: JQA-E-80009
Daikin Industries Ltd (Thailand)	Certificate number: JQA-E-90108
Yodogawa Plant (Japan)	Certificate number: EC99J2057
Daikin Australia Pty. Ltd.	Certificate number: CEM20437

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

Daikin Australia Pty Limited (ISO 45001)
OHS 20939 17
February 2021
Sydney

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

Industrial System and Chiller Products Manufacturing Div
(ISO 9001)
JQA-0495 May 16, 1994
(Yodogawa Plant and Kanaoka Factory and Kishiwada Factory)

Daikin Europe N.V (ISO 9001)
Lloyd 928589.1 June 2, 1993

Daikin Industries (Thailand) Ltd
JQA-1452 September 13, 2002
(ISO 9001)

CONTACT

DAIKIN

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Scan to learn more about the Daikin VRV R Series