



Information for end users

# Concealed ceiling units



Perfect comfort in an invisible way



# Why choose Daikin?

Daikin is the world leader when it comes to air conditioning and heating.

Thanks to our constant innovation in **comfort, energy efficiency, control** and **reliability** we define the benchmarks for quality within the industry.

## Comfort

- ✓ We offer a **wide range of products**, providing you always with the ideal solution, whether it be a residential, commercial or industrial environment.
- ✓ Our units are **whisper quiet** and, with their perfect airflow pattern, they create your ideal indoor climate.

## Control

- ✓ Our expertise makes life easier for you, allowing you to control your system via a **smartphone app** or a user-friendly remote control.

## Energy Efficiency

- ✓ As an environmentally responsible company, we are dedicated to fit in a healthy ecosystem.
- ✓ Our products are designed to be **highly efficient** all year round.
- ✓ Their low energy consumption reflects in **lower energy bills** to you.

## Reliability

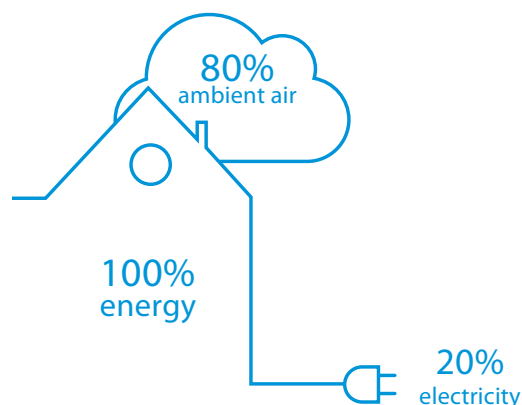
- ✓ Daikin products are renowned for their reliability. And you can trust on a **service** to match.

## What are the advantages of a concealed ceiling unit?

Concealed ceiling units offer you an extremely unobtrusive solution as they are compact and only the discharge and intake grilles are visible. In addition, they free up the maximum amount of floor and wall space, leaving you free to decorate your interior as you wish. Their new low consumption DC fan motor offers you maximum energy saving. And of course we have a wide range of units to suit rooms of all sizes.

## What is an air-to-air heat pump?

Heat pumps extract heat from the outside air, even in cold weather. They use an electrically powered compressor and are extremely effective at heating a flat or a house. Daikin heat pumps are silent and discreet, and use state-of-the-art technology to keep your energy bills as low as possible. With a Daikin heat pump, 80% of the energy used to heat your home comes from the outside air, a free and infinitely renewable resource! For cooling, the system is reversed, extracting heat from the indoor air.



## Thinking beyond today

From 2025 on, the European F-gas regulation prescribes the use of refrigerants with a GWP below 750 for all pair split air conditioner installations with a refrigerant charge below 3kg. R-410A (GWP 2087.5) will remain available for other applications and service.

From 2016 Daikin offers you a unique Bluevolution range of pair and multi units that once again sets the benchmark for residential air conditioning.

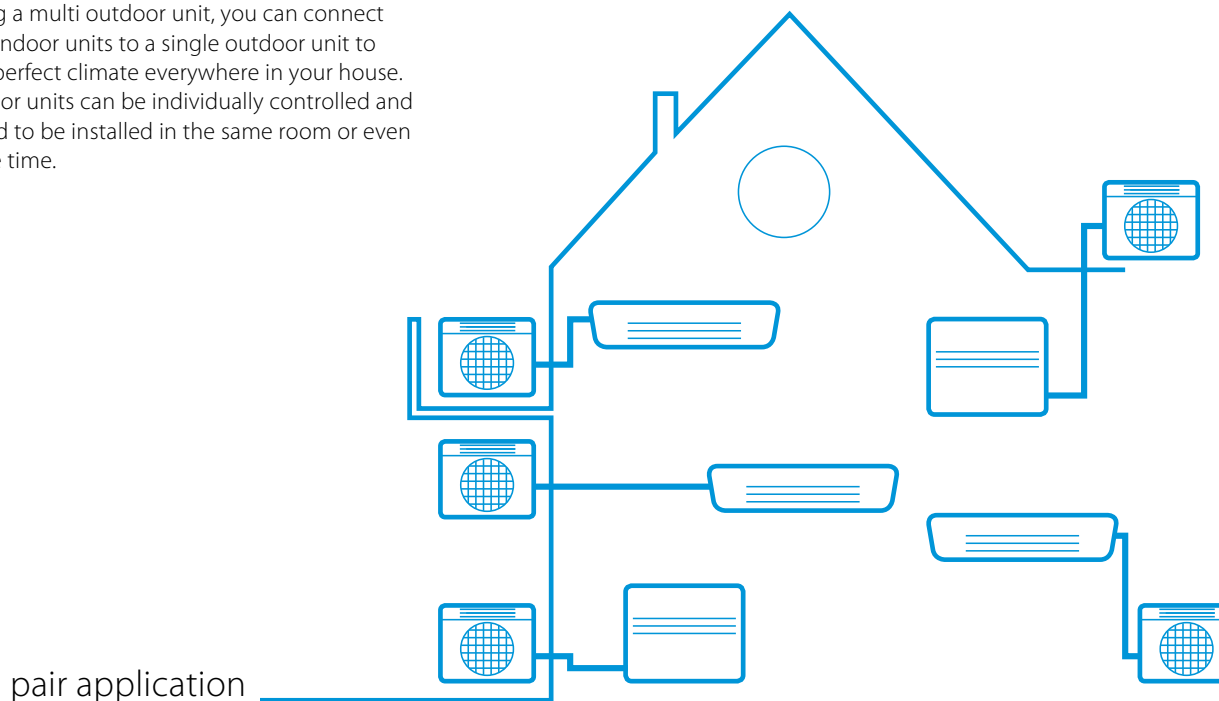
Using R-32 is not unknown territory because R-410A is a blend of 50% R-32 and 50% R-125. Additional benefits of using the single component refrigerant R-32 include the prevention of fractioning or gliding problems and easier recharging and recycling.

With working pressures similar to R-410A, the possibility to charge in both liquid and gas phase, and the availability of tools suitable for both R-32 and R-410A equipment, deciding for the Daikin Bluevolution range is easy.



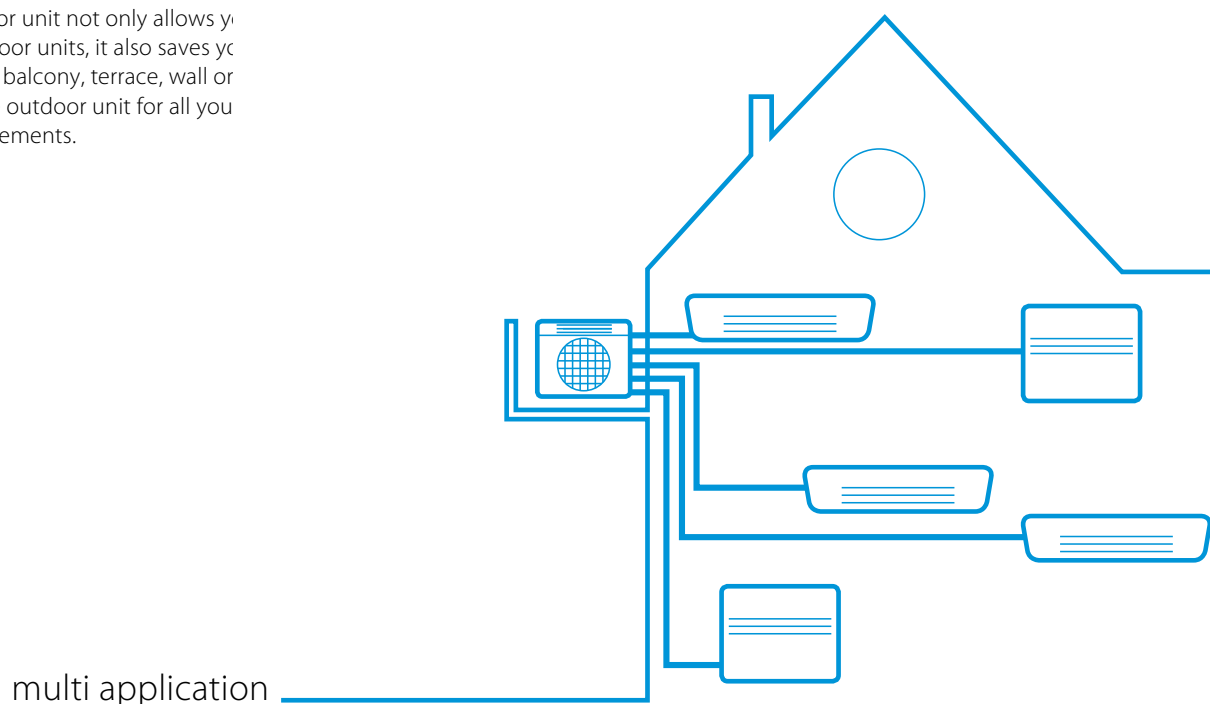
## One room or more, the choice is yours

By choosing a multi outdoor unit, you can connect up to nine indoor units to a single outdoor unit to create the perfect climate everywhere in your house. All the indoor units can be individually controlled and do not need to be installed in the same room or even at the same time.



## Save space with a multi outdoor unit

A multi outdoor unit not only allows you up to nine indoor units, it also saves you space on your balcony, terrace, wall or you only need one outdoor unit for all your heating requirements.



# Daikin concealed ceiling units

offer you all sorts of  
different advantages



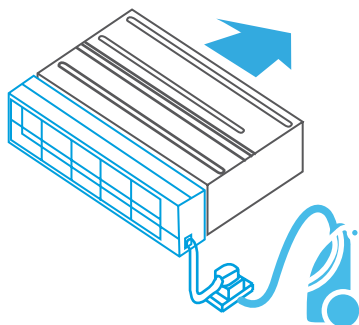
## **FDXM-F3 & FBA-A: Concealed ceiling unit**

This compact concealed ceiling unit can easily be mounted in a ceiling void. It gives you low energy consumption thanks to a DC fan.



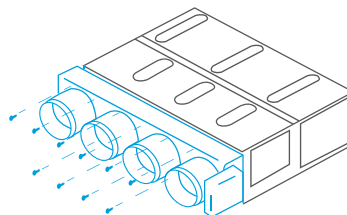
## **Auto cleaning filter option (FDXM-F3 only)**

Filter cleaning takes place automatically with the timing set via the remote control. The dust is collected in a dustbox integrated in the unit. Once full dust can be removed easily via a vacuum cleaner without opening the unit.



## **Multi zoning: supply multiple rooms with one indoor unit**

The zoning kit increases the flexibility of Split, Sky Air and VRV system applications by allowing multiple individually-controlled climate zones to be served by one indoor unit



Plug and play plenum



## **FDBQ-B: Small concealed ceiling unit**

Designed for hotel applications, this compact unit (230mm high and 652mm deep) can easily be mounted in shallow ceiling voids.



## **FNA-A: Concealed floor standing**

Designed to be concealed in walls. With its compact dimensions, the unit can perfectly fit beneath a window and little installation space is needed.





## Here are just some of the ways in which Daikin concealed ceiling units can enhance your home or office



Fan only



Dry programme



Weekly timer



Self-diagnosis



Fan speed steps



Air filter



Auto-restart



Wired remote control



Multi model application

### Seasonal efficiency

Daikin's concealed ceiling units are optimised to offer you the greatest possible efficiency all year round, whether they are cooling or heating.

### Filter

The air filter removes airborne dust particles to ensure that you have a steady supply of clean air.

### Discreetly concealed in a ceiling

Discreetly concealed in the ceiling, only the suction and discharge grilles are visible.

### Controls

Daikin concealed ceiling units can be controlled via a user friendly remote controller. The weekly timer can be set to start operation whenever you choose, on a daily or weekly basis.

### Perfect comfort

Daikin units operate at sound levels lower than 30 decibels, no louder than rustling leaves. In fan only mode, you can use the unit simply as a fan, to blow air without cooling or heating. Using the special dry programme, the humidity level in your room is reduced without any fluctuations in room temperature. The unit automatically selects heating or cooling mode to reach the temperature you want.

### Energy efficiency

Saving energy is not just good for the planet, it is good for your budget too. In Econo mode, our units' consumption is cut to allow other appliances which need a lot of power to be used. With features like a weekly timer, you have all the tools to maximise energy efficiency.



Always in control,  
no matter where you are



The Daikin Online Controller application can control and monitor the status of your heating system or up to 50 split air conditioning units and allows you to:

**Monitor:**

- ┌ The status of your air conditioner or heating system
- ┌ Consult **energy consumption graphs**

**Control:**

- ┌ The **operation mode**, set temperature, fan speed and powerful mode, air direction and filtering (streamer) function
- ┌ Remotely control your system and domestic hot water
- ┌ **Zone control:** control **multiple** units at once (Split and Daikin Altherma integrated bi-zone only)

**Schedule:**

- ┌ Schedule the set temperature and operation mode with up to **6 actions per day for 7 days**
- ┌ Enable **holiday mode**
- ┌ View in an intuitive mode
- ┌ 3<sup>rd</sup> party products & services integration via IFTTT
- ┌ Demand control/power power limitation (Split only)



App with intuitive lay-out



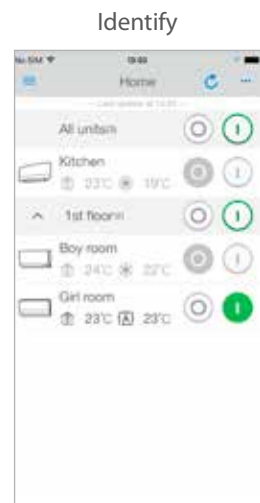
Control operation mode, temperature, air purification, fan speed & direction



Schedule the set temperature, operation mode and fan speed





Monitor your energy consumption, set holiday schedule



Identify the rooms in your house



# Benefits overview

|                        |   |  | Concealed ceiling units   |   |   |   |
|------------------------|---|--|---|---|---|---|
|                        |   |  | FDXM-F3   | FDBQ-B  | FBA   | FNA   |
|                        |   |  |  |  |  |  |
|                        |  Inverter technology               | In combination with inverter controlled outdoor units  | •   | •   | •   | •   |
|                        |  Home leave operation              | During absence, the indoor temperature can be maintained at a certain level.   |   | •   | •   | •   |
|                        |  Fan only                          | The air conditioner can be used as fan, blowing air without cooling or heating.  | •   | •   | •   | •   |
|                        |  Auto cleaning filter              | Automatically cleans itself resulting in optimum energy efficiency and maximum comfort without the need for expensive or time-consuming maintenance.                               | •   |   |   |   |
| Comfort                |  Multizoning                       | Allows up to 6 individual climate zones with one indoor unit   | •   |   | •   |   |
|                        |  Auto cooling-heating changeover   | Automatically selects cooling or heating mode to achieve the set temperature.  | •   | •   | •   | •   |
| Air treatment          |  Air filter                      | Removes airborne dust particles to ensure a steady supply of clean air.  | •   | •   |   | •   |
| Humidity control       |  Dry programme                   | Allows humidity levels to be reduced without variations in room temperature.   | •   | •   | •   | •   |
| Air flow               |  Fan speed steps                 | Allows to select up to the given number of fan speed.  | 3   | 2   | 3   | 3   |
| Remote control & timer |  Weekly timer                    | Timer can be set to start operation anytime on a daily or weekly basis   | •<br>depending on controller  | •   | •   | •   |
|                        |  24 Hour timer                   | Timer can be set to start cooling/heating anytime during a 24-hour period  | •<br>depending on controller  |   |   |   |
|                        |  Infrared remote control         | Infrared remote control with LCD to start, stop and regulate the air conditioner from a distance.  | •   |   | •   | •   |
|                        |  Wired remote control            | Wired remote control to start, stop and regulate the air conditioner from a distance.  | •   | •   | •   | •   |
|                        |  Centralised control             | Centralised control to start, stop and regulate several air conditioners from one central point.   | •   |   | •   |   |
| Other functions        |  Auto-restart                    | The unit restarts automatically at the original settings after power failure.  | •   | •   | •   | •   |
|                        |  Self-diagnosis                  | Simplifies maintenance by indicating system faults or operating anomalies.   | •   | •   | •   | •   |
|                        |  Multi model application         | Up to 5 indoor units (even different capacities) can be connected to a single outdoor unit. All indoor units can individually be operated within the same mode.                    | •   | •   | •   | •   |
|                        |  VRV for residential application | Up to 9 indoor units (even different capacities and up to 71 class) can be connected to a single outdoor unit. All indoor units can individually be operated within the same mode. |   | •   | •   | •   |



## Multi combination table

|              |          | Concealed ceiling |    |    |    |       |    |    |    |        |    |    |    | Concealed floor standing |    |    |    |
|--------------|----------|-------------------|----|----|----|-------|----|----|----|--------|----|----|----|--------------------------|----|----|----|
|              |          | FDXM-F3           |    |    |    | FBA-A |    |    |    | FDBQ-B |    |    |    | FNA-A                    |    |    |    |
|              |          | 25                | 35 | 50 | 60 | 25    | 35 | 50 | 60 | 25     | 35 | 50 | 60 | 25                       | 35 | 50 | 60 |
| Bluevolution | 2MXM40M  | ●                 | ●  |    |    |       |    |    |    |        |    |    |    |                          |    |    |    |
|              | 2MXM50M9 | ●                 | ●  | ●  |    |       |    |    |    |        |    |    |    |                          |    |    |    |
|              | 3MXM40N  | ●                 | ●  |    |    | ●     | ●  |    |    |        |    |    |    | ●                        | ●  |    |    |
|              | 3MXM52N  | ●                 | ●  | ●  |    | ●     | ●  | ●  |    |        |    |    |    | ●                        | ●  | ●  |    |
|              | 3MXM68N  | ●                 | ●  | ●  | ●  | ●     | ●  | ●  | ●  |        |    |    |    | ●                        | ●  | ●  | ●  |
|              | 4MXM68N  | ●                 | ●  | ●  | ●  | ●     | ●  | ●  | ●  |        |    |    |    | ●                        | ●  | ●  | ●  |
|              | 4MXM80N  | ●                 | ●  | ●  | ●  | ●     | ●  | ●  | ●  |        |    |    |    | ●                        | ●  | ●  | ●  |
| Standard     | 5MXM90N  | ●                 | ●  | ●  | ●  | ●     | ●  | ●  | ●  |        |    |    |    | ●                        | ●  | ●  | ●  |
|              | 2MXS40H  | ●                 | ●  |    |    |       |    |    |    |        |    |    |    |                          |    |    |    |
|              | 2MXS50H  | ●                 | ●  | ●  |    |       |    |    |    |        |    |    |    |                          |    |    |    |
|              | 3MXS40K  | ●                 | ●  |    |    | ●     | ●  |    |    | ●      | ●  |    |    | ●                        | ●  |    |    |
|              | 3MXS52E  | ●                 | ●  | ●  |    | ●     | ●  | ●  |    | ●      | ●  | ●  |    | ●                        | ●  | ●  |    |
|              | 3MXS68G  | ●                 | ●  | ●  | ●  | ●     | ●  | ●  | ●  | ●      | ●  | ●  | ●  | ●                        | ●  | ●  | ●  |
|              | 4MXS68F  | ●                 | ●  | ●  | ●  | ●     | ●  | ●  | ●  | ●      | ●  | ●  | ●  | ●                        | ●  | ●  | ●  |
|              | 4MXS80E  | ●                 | ●  | ●  | ●  | ●     | ●  | ●  | ●  | ●      | ●  | ●  | ●  | ●                        | ●  | ●  | ●  |
|              | 5MXS90E  | ●                 | ●  | ●  | ●  | ●     | ●  | ●  | ●  | ●      | ●  | ●  | ●  | ●                        | ●  | ●  | ●  |

| Efficiency data  |    | Nominal capacity (kW)                     |         | Energy label |         | Pdesign (kW) |         | SEER | SCOP | Annual energy consumption (kWh) |         | Indoor unit dimensions | Sound power level indoor (dBA) |         | Sound power level outdoor (dBA) |         | Sound pressure level indoor (High/Nom/Low) dBA |          | Refrigerant (R-32) |         |     |                    |
|------------------|----|---|---------|--------------|---------|--------------|---------|------|------|---------------------------------|---------|------------------------|--------------------------------|---------|---------------------------------|---------|--|----------|--------------------|---------|-----|--------------------|
|                  |    | Cooling                                   | Heating | Cooling      | Heating | Cooling      | Heating |      |      | Cooling                         | Heating |                        | Cooling                        | Heating | Cooling                         | Heating | Cooling  | Heating  | Cooling            | Heating | GWP | Charge (kg/TCO2Eq) |
|                  |    |   |         |              |         |              |         |      |      |                                 |         |                        |                                |         |                                 |         |  |          |                    |         |     |                    |
| FDXM-F3 + RXM-M9 | 25 | 2.4                                       | 3.2     | A+           | A+      | 2.40         | 2.60    | 5.63 | 4.24 | 148                             | 858     | 200x750x620            | 53                             | 53      | 59                              | 59      | 35/33/27                                       | 35/33/27 | 675                | 0.52    |     |                    |
|                  | 35 | 3.4                                       | 4.0     | A            | A       | 3.40         | 2.90    | 5.26 | 3.88 | 226                             | 1,046   |                        | 53                             | 53      | 61                              | 61      | 35/33/27                                       | 35/33/27 | 675                | 0.52    |     |                    |
|                  | 50 | 5.0                                       | 5.8     | A+           | A       | 5.00         | 3.93    | 5.77 | 3.93 | 303                             | 1,424   | 200x1,150x620          | 55                             | 55      | 62                              | 62      | 38/35/30                                       | 38/35/30 | 675                | 0.95    |     |                    |
|                  | 60 | 6.0                                       | 7.0     | A+           | A       | 6.00         | 4.60    | 5.56 | 3.80 | 319                             | 1,693   |                        | 56                             | 56      | 63                              | 63      | 38/35/30                                       | 38/35/30 | 675                | 0.98    |     |                    |
| FBA-A + RXM-M9   | 35 | 3.4                                       | 4.0     | A++          | A+      | 3.40         | 2.90    | 6.23 | 4.07 | 191                             | 996     | 245x700x800            | 60                             | -       | 61                              | 61      | 35/32/29                                       | 37/34/29 | 675                | 0.52    |     |                    |
|                  | 50 | 5.0                                       | 5.5     | A++          | A+      | 5.00         | 4.40    | 6.27 | 4.06 | 279                             | 1,517   |                        | 60                             | -       | 62                              | 62      | 35/32/29                                       | 37/34/29 | 675                | 0.95    |     |                    |
|                  | 60 | 5.7                                       | 7.0     | A+           | A+      | 5.70         | 4.60    | 5.91 | 4.01 | 337                             | 1,607   | 245x1,000x800          | 56                             | -       | 63                              | 63      | 30/28/25                                       | 31/28/25 | 675                | 0.98    |     |                    |
| FNA-A + RXM-M9   | 25 | 2.6                                       | 3.2     | A+           | A+      | 2.60         | 2.80    | 5.68 | 4.24 | 160                             | 924     | 620x750x200            | 53                             | -       | 59                              | 59      | 33/28  | 33/28    | 675                | 0.52    |     |                    |
|                  | 35 | 3.4                                       | 4.0     | A+           | A+      | 3.40         | 2.90    | 5.70 | 4.05 | 209                             | 1,002   | 620x750x200            | 53                             | -       | 61                              | 61      | 33/28  | 33/28    | 675                | 0.52    |     |                    |
|                  | 50 | 5.0                                       | 5.8     | A+           | A+      | 5.00         | 4.00    | 5.77 | 4.09 | 303                             | 1,369   | 620x1,150x200          | 56                             | -       | 62                              | 62      | 36/30  | 36/30    | 675                | 0.95    |     |                    |
|                  | 60 | 6.0                                       | 7.0     | A+           | A++     | 6.00         | 4.60    | 5.56 | 4.16 | 378                             | 1,547   | 620x1,150x200          | 56                             | -       | 63                              | 63      | 36/30  | 36/30    | 675                | 0.98    |     |                    |
| FDBQ-B           | 25 | only available in multi model application |         |              |         |              |         |      |      |                                 |         | 230x652x502            | 55                             | 55      | N/A                             | N/A     | 35/-/28  | 35/-/29  | N/A                | N/A     |     |                    |

FDXM-F3, FBA-A and FNA-A can also be combined with standard RXS-L(3) outdoor units

# Options

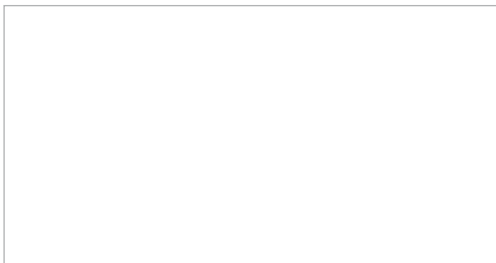
| INDOOR UNITS   |   | R-410A         | R-32 / R-410A   |  |                    |
|--|---|----------------|---|--|--------------------|
|  |   | FDBQ-B         | FDXM-F3   | FBA-A  | FNA-A              |
| Panels   | Decoration panel (obligatory for cassette units, optional for others)   |                |   |  |                    |
|  | Panel spacer for reducing required installation height  |                |   |  |                    |
|  | Sealing kit for 3- or 2-directional air discharge   |                |   |  |                    |
|  | Sensor kit  |                |   |  |                    |
| Individual control systems                               | Infrared remote control (incl. receiver)  |                | BRC4C65   | BRC4C65  | BRC4C65            |
|  | BRCIE53A/B/C (3) - Premium wired remote control with full-text interface and back-light                                     | •              | •   | •  | •                  |
|  | BRC1D52 - Standard wired remote control with weekly timer   | •              | •   | •  | •                  |
|  | BRC2E52C - Simplified remote control (with operation mode selector button)  | •              | •   | •  | •                  |
|  | BRC3E52C - Simplified remote control (without operation mode selector button)   | •              | •   | •  | •                  |
|  | ARCWB - Wired remote controller   |                |   |  |                    |
| Centralised control systems                              | DIII-net connection - for connection to centralized control   | DTA112B51      | standard  | standard   | standard           |
|  | DCC601A51 - Intelligent tablet controller   | •              | •   | •  | •                  |
|  | DCS601C51 (11) - Intelligent touch controller   | •              | •   | •  | •                  |
|  | DCS302C51 (11) - Central remote control   |                |   | •  | •                  |
|  | DCS301B51 (11) (12) - Unified ON/OFF control  |                |   | •  | •                  |
|  | DST301B51 (11) - Schedule timer   |                |   | •  | •                  |
|  | NIM03 - R04084124324 - Option PCB for group control   |                |   |  |                    |
|  | DCM601A51 - Intelligent Touch Manager   | •              | •   | •  | •                  |
| Building Management System & Standard protocol interface | RTD-RA - Modbus interface for monitoring and control  |                | •   |  | •                  |
|  | RTD-NET - Modbus interface for monitoring and control   | •              | •   | •  | •                  |
|  | RTD-10 - Modbus interface for infrastructure cooling  | •              |   | •  | •                  |
|  | RTD-20 - Modbus interface for retail  | •              |   | •  | •                  |
|  | RTD-HO - Modbus interface for hotel   | •              |   | •  | •                  |
|  | EKMBDXA - Modbus interface  | •              |   | •  | •                  |
|  | KLIC-DI - KNX Interface   | •              |   | •  | •                  |
|  | DMS502A51 - BACnet Interface  | •              |   | •  | •                  |
|  | DMS504B51 - LonWorks Interface  | •              |   | •  |                    |
|  |   |                |   |  |                    |
| Filters  | Replacement long-life filter, non-woven type  |                |   |  |                    |
|  | Auto cleaning filter  |                | BAE20A62 (25 - 35)<br>BAE20A102 (50 - 60)               |  |                    |
| Adapter  | Wiring adapter for external monitoring/control via dry contacts and setpoint control via 0-140 Ω                            |                | KRP4A54   | KRP4A52 (10)   | KRP4A54            |
|  | Wiring adapter with 2 output signals (compressor/ Error, Fan output)  |                |   |  |                    |
|  | Wiring adapter for external central monitoring/control (controls 1 entire system)   |                |   | KRP2A51 (7)  |                    |
|  | Adapter for wiring (interlock for fresh air intake fan)   |                |   | KRP1B54  |                    |
|  | Wiring adapter with 4 output signals (compressor / Error, Fan, Aux, heater, Humidifier output)                              | EKRP1B2        |   | EKRP1B2  | KRP1B56            |
|  | Adapter for keycard or window contact connection (in combination with BRC2/3E* only)  |                | BRP7A54 (11)(12)  | BRP7A51 (11)(12)   | BRP7A51 (11)(12)   |
|  | Installation box/Mounting plate for adapter PCBs (when there is no space in the switchbox, an installation box is required) |                | KRP1BA101 (11)(12)                                      | KRP1BA101 (11)(12)   | KRP1BA101 (11)(12) |
|  | External wired temperature sensor   | KRCS01-1B      | KRCS01-4B   | KRCS01-4B  | KRCS01-4B          |
|  | K.RSS - External wireless temperature sensor  | •              |   | •  | •                  |
|  | Remote ON/OFF, forced OFF kit   | standard       | standard  | standard   |                    |
|  | DTA112B51 Interface adapter for Sky Air   |                |   |  |                    |
|  | DTA104A61 External adapter for outdoor unit (installation on indoor unit)   |                |   |  |                    |
|  | Others  | Drain pump kit |   |  |                    |
| Multi zoning kit   |   |                | 3 dampers (25 - 35)<br>4 dampers (50)<br>5 dampers (60) | 3 dampers (35 - 50)<br>4 dampers (60 - 71)<br>5 dampers (100 - 125)<br>6 dampers (140) |                    |
| L-type piping kit (upward direction)                     |   |                |   |  |                    |
| Fresh air intake kit (direct installation type)          |   |                |   |  |                    |
| Air discharge adapter for round duct                     |   |                |   | KDAP25A56A (35-50)<br>KDAP25A71A (60-71)<br>KDAP25A140A [100-140]                      |                    |

\*Note: blue cells contain preliminary data

- Dirt formation is more easily visible on white insulation. It is recommended not to install this option in environments with a high concentration of dirt.
- To be able to control option BYCQ140DG(F), controller BRCIE is needed.
- Included languages are:  
A: English, German, French, Dutch, Spanish, Italian and Portuguese  
B: English, Bulgarian, Croatia, Czech, Hungarian, Romanian and Slovakian  
C: English, Greek, Polish, Russian, Serbian, Slovak and Turkish
- The option is intended exclusively for use in fine dust environments (e.g. Clothing shops). Do not use it in environments that are greasy or have high humidity.
- Sensing function is not available
- Individual flap control function not available
- If installing an electrical heater, an option PCB for external electrical heater (EKRP1B2) for each indoor unit is required.
- Mounting plate KRP4A96 is required for these options. Maximum 2 option PCB's can be mounted.
- Only possible to combine with simplified remote control BRC2E52C/BRC3E52C
- Requires installation box for adapter PCB



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