

# UATYA rooftop series

Available in base, 2-, 3- and  
4-damper versions

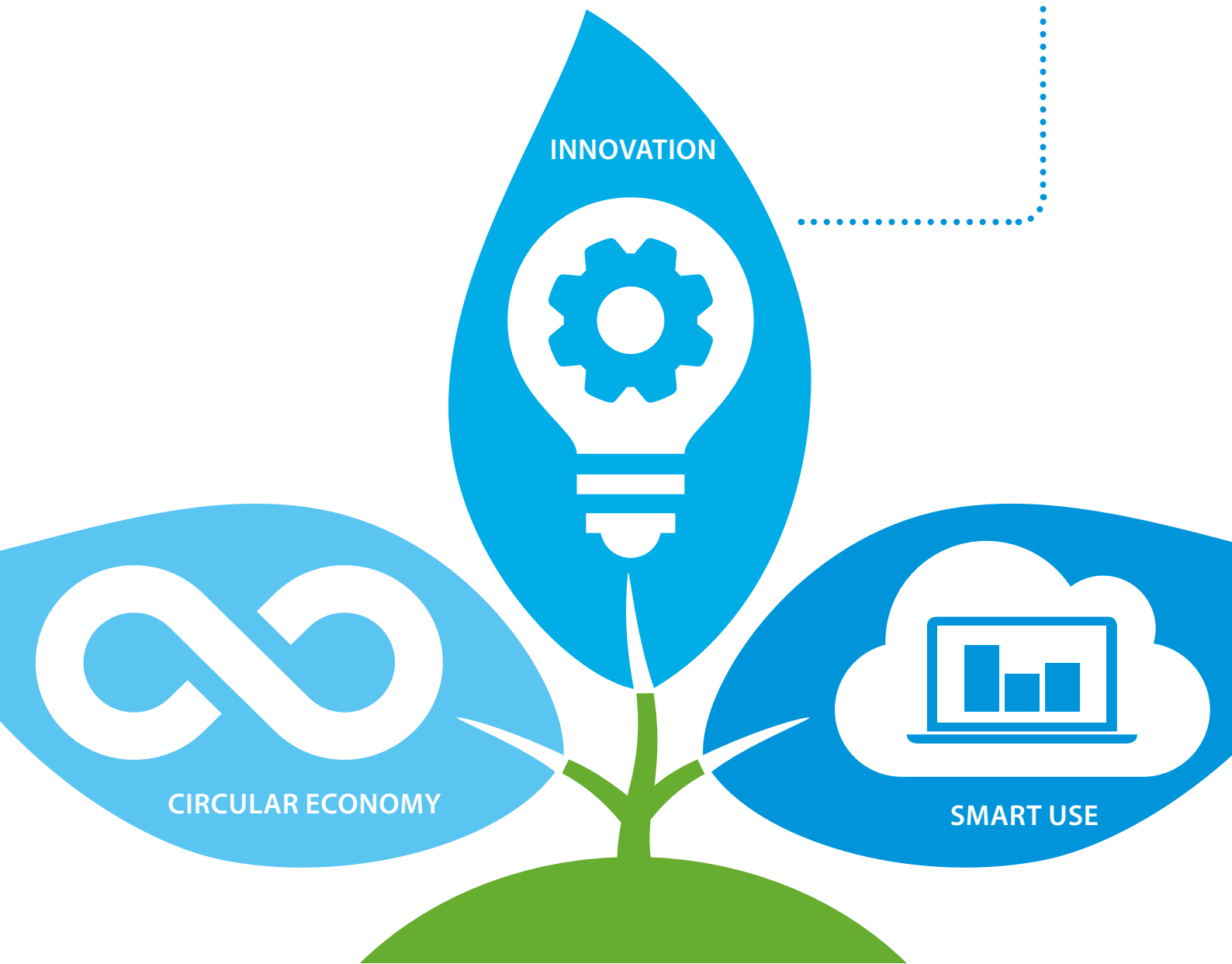


Extensive feature package  
included in all Made-To-Stock  
and Made-To-Order models

# Creating a sustainable future together

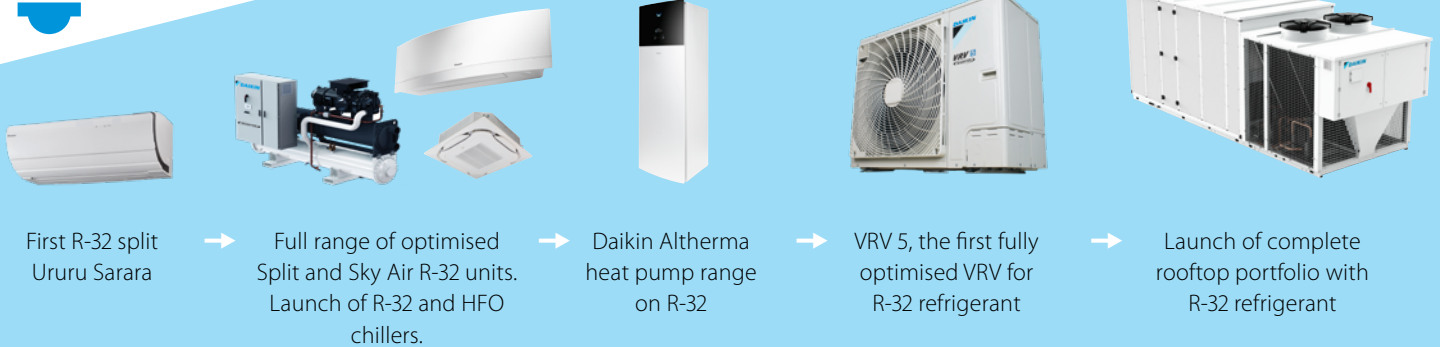
Determined to reduce our environmental footprint, we aim to be CO<sub>2</sub>-neutral by 2050.  
A circular economy, innovation and smart use – these are the stepping stones on our path.

**The time to act is now. Join us in creating a sustainable future for HVAC-R.**





## INNOVATION

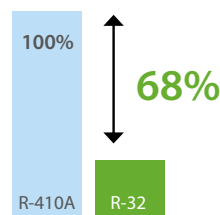


## Continuing our path to lower CO<sub>2</sub> equivalent solutions through innovation

Since the launch of Ururu Sarara in 2013, the first air conditioner to use R-32 refrigerant, we have worked to convert our portfolio to lower GWP refrigerants. The launch of the new rooftop series, a completely newly developed portfolio specifically for R-32 refrigerant, is the latest evolution.

### Advantages of R-32

- › Lower Global Warming Potential (GWP): only 1/3rd of R-410A
- › Higher energy efficiency
- › Single component refrigerant, easy to handle and recycle



Potential global warming impact

**-68%**  
potential global warming impact



### With people in mind

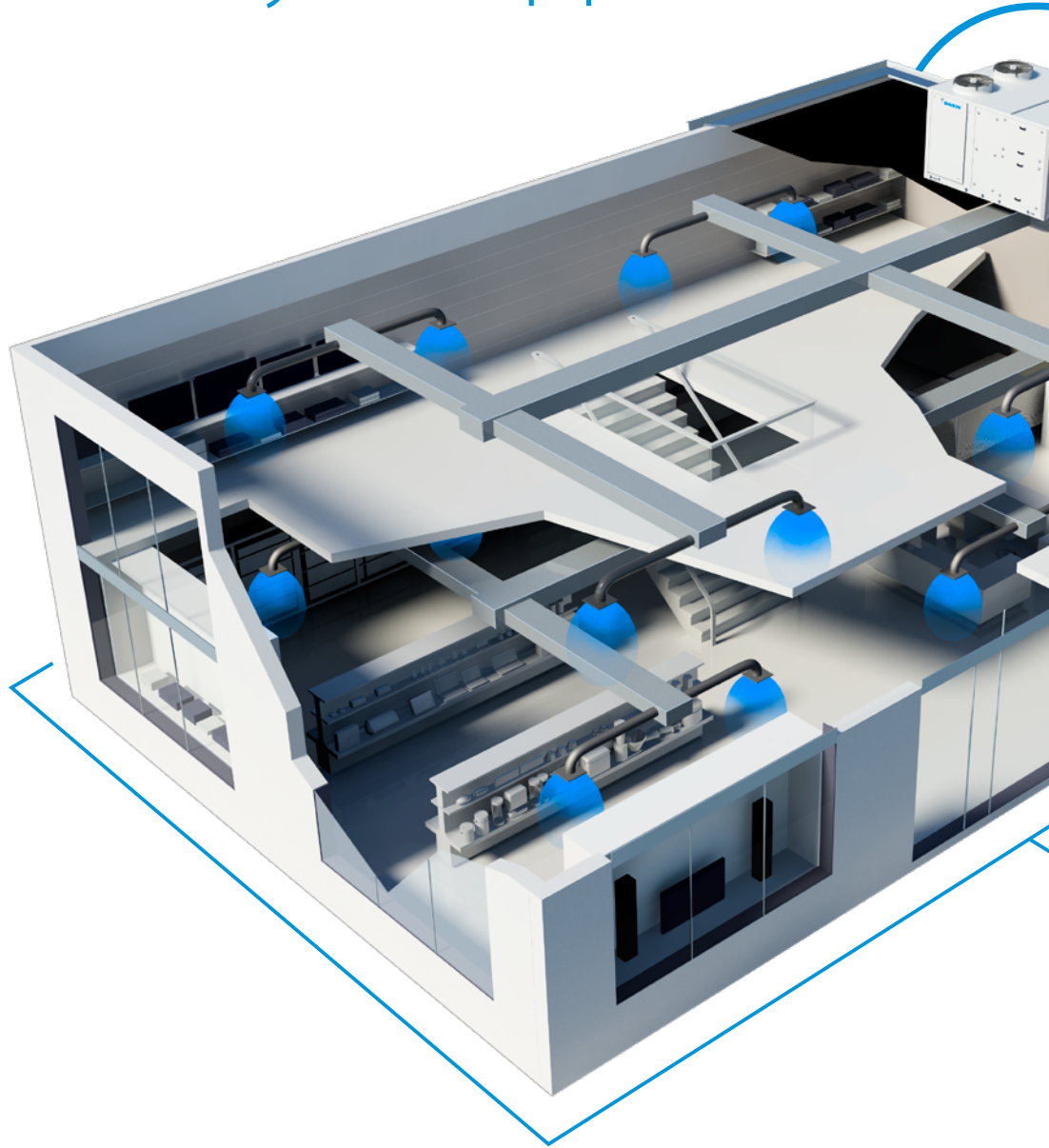
Daikin has the ambition to bring you:

- › the most sustainable system;
- › easy and versatile to install;
- › with credible data.



# Daikin rooftops

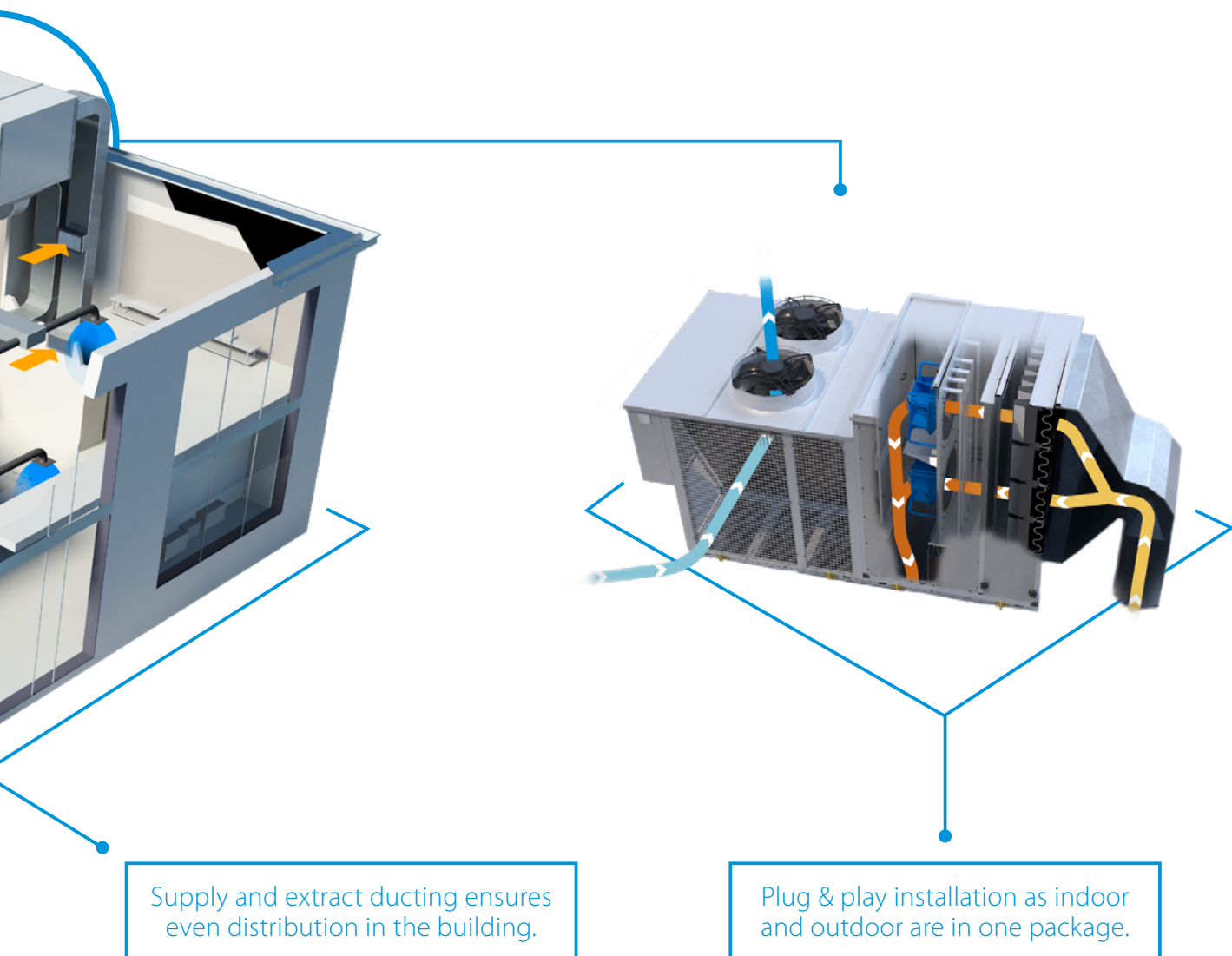
## Flexible to suit your application



### Rooftop for Retail & Department Stores

Retail & department stores need challenging design because of **limited space and complex building structure, containing different floors and spaces**. Daikin rooftops provide the solution:

- › Ductwork can be connected flexibly to optimize installation space.
- › High efficiency EC plug fans are maintenance free, limiting the downtime of the system for maintenance.
- › Extraction damper and fan ensure there is no overpressure in the building and air circulation is optimised.
- › High indoor air quality can be guaranteed thanks to integrated fresh air provision and multiple air filtration possibilities.



## Rooftop for Warehouses & Industry

For building managers and engineers, warehouses or industrial applications can pose serious HVAC **challenges because of their size and unique design**. Daikin rooftops provide the solution:

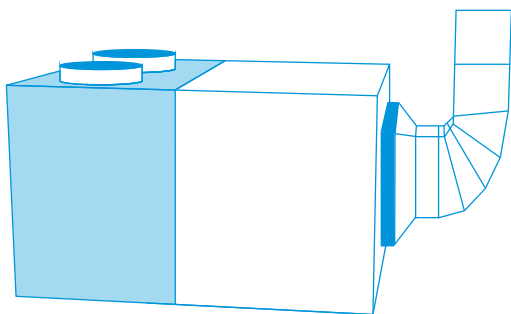
- › Indoor/outdoor packaged unit and factory charged refrigerant provide cost-effective installation.
- › High ESP up to 800Pa allows extensive ductwork to evenly distribute the air across a large space.
- › Scroll compressor and free cooling ensure highly efficient 24/7 operation.
- › Clogged filter alarm indicates when filter needs cleaning, ensuring optimum operation and minimized energy consumption.



# Wide range of R-32 rooftop units to cover your needs



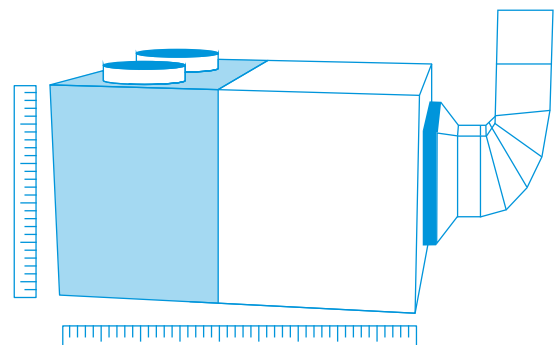
## Made-To-Stock units (MTS)



48 predefined units readily available from stock

- › Fast delivery
- › 3 versions: Base, 2 dampers and 3 dampers
  - › Thermodynamic heat recovery available on full FC3 range
- › Extended capacity up to 190 kW!
- › Comes with a wide range of standard integrated features

## Made-To-Order units (MTO)



Fully customizable units for maximum flexibility

- › Almost infinite configuration possibilities thanks to wide choice of options
- › 4 versions: Base, 2 dampers, 3 dampers and 4 dampers
  - › Thermodynamic heat recovery available on full FC3 range
  - › Premium efficiency plate heat exchanger available on RS4 range
- › Extended capacity up to 190 kW!
- › Comes with a wide range of standard integrated features
- › Easy selection via selection software: [rooftop.daikin.eu](https://rooftop.daikin.eu)

## Standard integrated features on all Made-To-Stock and Made-To-Order units

### 1 R-32 refrigerant

- › Top sustainability thanks to the use of low GWP (675) refrigerant
- › Single component refrigerant, easy to re-use and recycle



**BLUEvolution**

### 2 Inverter driven compressors

- › Great year-round seasonal efficiency
- › Available up to 120 kW models

### 3 Capacity range up to 190 kW!

- › More flexibility to tackle larger projects with a small footprint



### 4 25 mm double skinned panels

- › Ensuring long-lasting life and providing good thermal and sound insulation

### 5 Full color touch display

- › Intuitive to use
- › Better visualisation of unit parameters



### 6 Integrated connectivity

- › Integration into Daikin intelligent Touch Manager BMS (via BACNET protocol)
- › Integration in 3rd party BMS systems via Ethernet port (BACnet TCP/IP & Modbus TCP/IP) or 3-cable port (Modbus over RS485)



### 7 Selection software

- › Easy selection of the correction unit and options based on location conditions
- › Direct availability of technical drawings



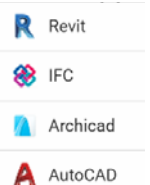
Select and configure your rooftop now!  
[rooftop.daikin.eu](http://rooftop.daikin.eu)

## More standard integrated features

- › ISO Coarse 75% filter (G4) (standard for MTS only)
- › Standard clogged filter alarm
- › Flexible air delivery
- › Hydrophilic aluminum fins on indoor and outdoor unit side
- › Mesh coil guard on outdoor heat exchanger
- › Factory mounted drain pan with heater
- › Single operation voltage-free contact
- › Power supply connection safety through max/min voltage relay and reversed phase connection

### 8 BIM objects

- › All made to stock units available as Revit, IFC, Archicad and AutoCAD files
- › All made to order units available as Revit



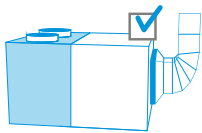
Download our objects now!  
[bim.daikin.eu](http://bim.daikin.eu)

# 4 versions to choose from

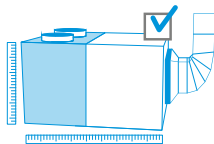
## UATYA-BBAY1

### High installation flexibility and easy servicing

- › Easy to install 'plug and play' concept plus single installation configuration; no additional piping is required since indoor and outdoor sides are pre-connected
- › High efficiency and reliable scroll compressor
- › Factory pre-charged refrigerant ensures clean and efficient operation

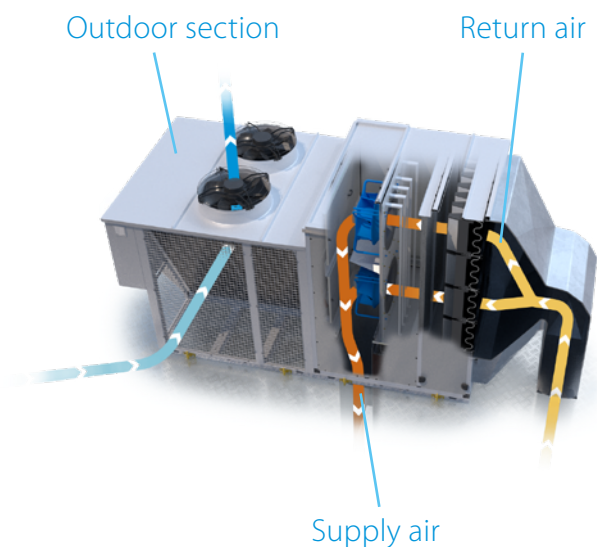


Made-To-Stock units (MTS)



Made-To-Order units (MTO)

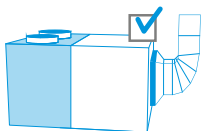
### HEATING OPERATION EXAMPLE



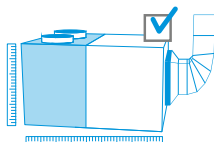
## UATYA-BFC2Y1

### 2 damper version, with integrated fresh air

- › Free cooling with up to 100% fresh air possible
  - › Improved air quality
  - › Energy saving using fresh outdoor air to cool the building
- › Includes all Base model features

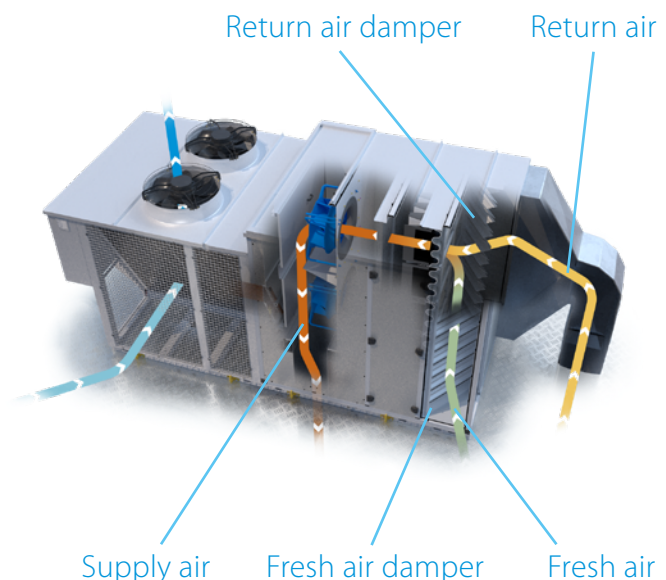


Made-To-Stock units (MTS)



Made-To-Order units (MTO)

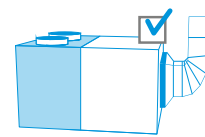
### HEATING OPERATION EXAMPLE



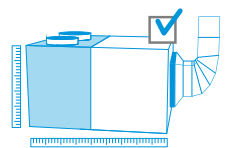
## UATYA-BFC3Y1

### 3 damper version, with integrated fresh air and extraction

- › Extraction damper integrated
  - › Eliminates excessive overpressure in the building
  - › Including high efficient extraction fan for optimum air circulation in larger buildings
- › Thermodynamic heat recovery
  - › Saves energy by recovering waste heat through the outdoor heat exchanger
  - › Available on all models
- › Includes all FC2 model features

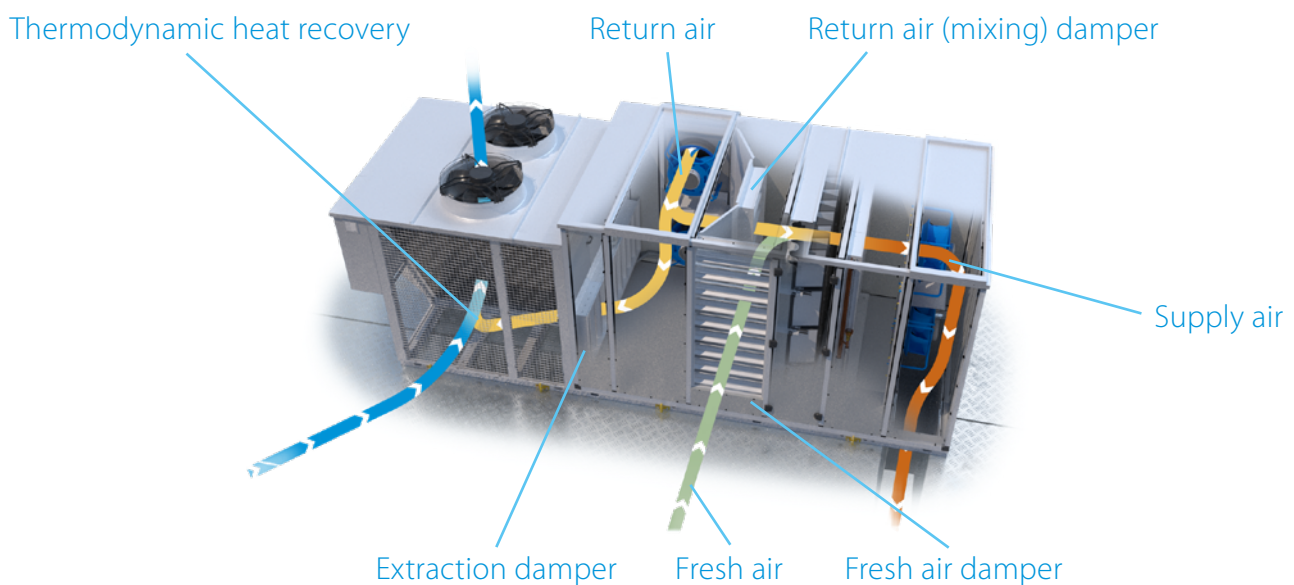


Made-To-Stock units (MTS)



Made-To-Order units (MTO)

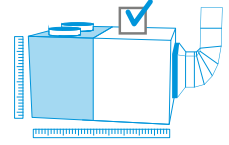
#### HEATING OPERATION EXAMPLE



# UATYA-BRS4\*

## 4 damper version, with integrated fresh air, extraction and plate heat recovery

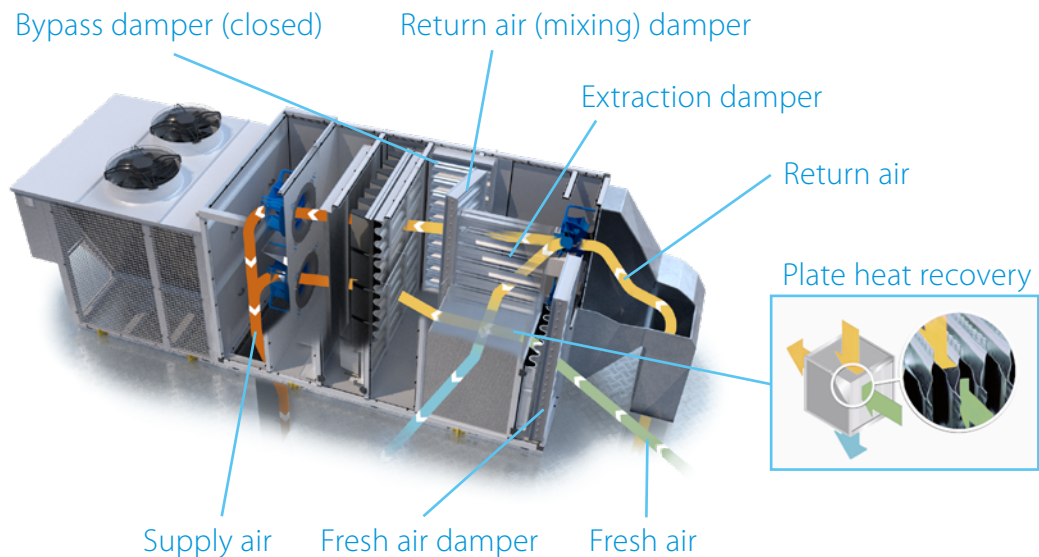
- › Premium efficiency counter flow plate heat exchanger
  - › Recovers up to 58% waste heat from the return air
  - › Available in 50% and 100% return air heat recovery
- › Bypass damper to allow plate heat exchange or free cooling
- › Additional thermodynamic heat recovery available up to 50kW models
- › Includes all FC3 model features
- › Only available as Made-To-Order model



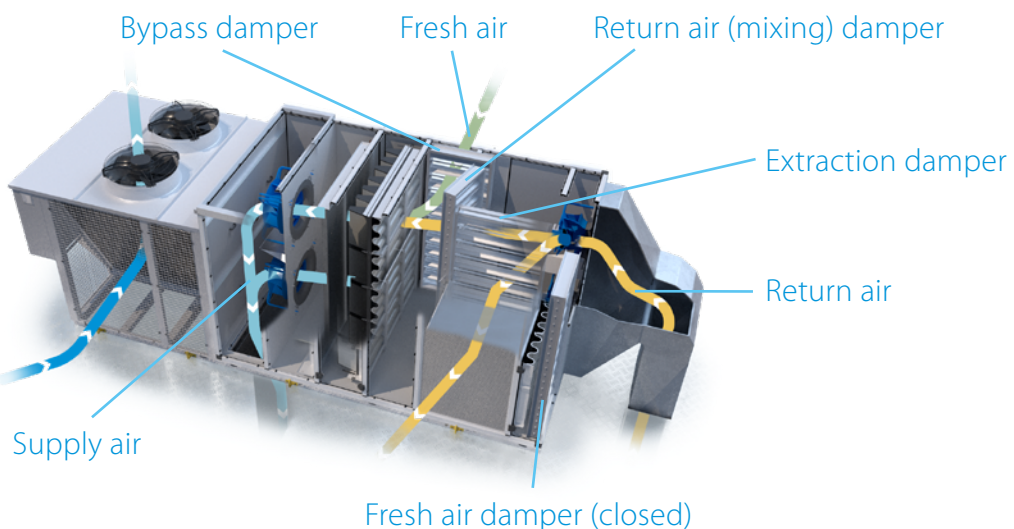
Made-To-Order units (MTO) only

\* Indicative model name. Correct model name to be retrieved from selection software.

### PLATE HEAT RECOVERY MODE IN HEATING OPERATION



### USE OF BYPASS DAMPER IN FREE COOLING MODE



# EC plug fan

size options to allow different ESP values



# Products overview rooftops

BLUEvolution

Capacity class (kW)

| Type                 | Model                                                                                                                                                                                                                                                                                                            | MTS Product name | Refrigerant | Version | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 140 | 150 | 160 | 180 | 190 |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------|---------|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| Air cooled Heat pump | <b>Rooftop unit</b><br>With extensive base package for high installation flexibility and easy servicing<br>- 'Plug and play' for easy installation<br>- High efficiency<br>- Field convertible return and supply air<br>- Direct integration with Daikin or third party BMS<br>- Factory pre-charged refrigerant | UATYA-BBAY1      | <b>R-32</b> | MTS MTO | •  | •  | •  | •  | •  | •  | •  | •  | •   | •   | •   | •   | •   | •   | •   | •   |
|                      | <b>Rooftop unit</b><br>2 damper version with integrated fresh air<br>- Free cooling with up to 100% fresh air intake<br>- Comes with all Base model features                                                                                                                                                     | UATYA-BFC2Y1     |             | MTS MTO | •  | •  | •  | •  | •  | •  | •  | •  | •   | •   | •   | •   | •   | •   | •   | •   |
|                      | <b>Rooftop unit</b><br>3 damper version with integrated fresh air and extraction<br>- Integrated extraction damper eliminates over-pressure<br>- Thermodynamic heat recovery, recovering waste heat<br>- Comes with all FC2 model features                                                                       | UATYA-BFC3Y1     |             | MTS MTO | •  | •  | •  | •  | •  | •  | •  | •  | •   | •   | •   | •   | •   | •   | •   | •   |
|                      | <b>Rooftop unit</b><br>4 damper version with integrated fresh air, extraction and plate heat exchanger<br>- Premium efficiency plate heat exchanger, recovering waste heat<br>- Comes with all FC3 model features                                                                                                | UATYA-BRS4*      |             | MTO     | •  | •  | •  | •  | •  | •  | •  | •  | •   | •   | •   | •   | •   | •   | •   | •   |

\* Indicative model name. Correct model name to be retrieved from selection software.

## Field applied accessories for Made-To-Stock units

|               |                                                             | BASE series<br>(UATYA-BBAY1)                   |                                                |                                 |                                  |                                  | FC2 series<br>(UATYA-BFC2Y1)                   |                                                |                                 |                                  |                                  | FC3 series<br>(UATYA-BFC3Y1)     |                                                |                                                |                                 |                                  |                                  |                                  |                                  |
|---------------|-------------------------------------------------------------|------------------------------------------------|------------------------------------------------|---------------------------------|----------------------------------|----------------------------------|------------------------------------------------|------------------------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|------------------------------------------------|------------------------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|               |                                                             | 25-30                                          | 40-50                                          | 60-70                           | 80-120                           | 140-190                          | 25-30                                          | 40-50                                          | 60-70                           | 80-90                            | 100-120                          | 140-190                          | 25-30                                          | 40-50                                          | 60-70                           | 80-100                           | 110-120                          | 140-180                          | 190                              |
| Air treatment | Filter ISO Coarse 75% (G4)                                  | 2x UATYAC7SA + 2x UATYAC7SB (Standard for MTS) | 3x UATYAC7SA + 3x UATYAC7SB (Standard for MTS) | 6x UATYAC7SB (Standard for MTS) | 12x UATYAC7SC (Standard for MTS) | 12x UATYAC7SC (Standard for MTS) | 2x UATYAC7SA + 2x UATYAC7SB (Standard for MTS) | 3x UATYAC7SA + 3x UATYAC7SB (Standard for MTS) | 6x UATYAC7SB (Standard for MTS) | 12x UATYAC7SC (Standard for MTS) | 12x UATYAC7SC (Standard for MTS) | 12x UATYAC7SC (Standard for MTS) | 2x UATYAC7SA + 2x UATYAC7SB (Standard for MTS) | 3x UATYAC7SA + 3x UATYAC7SB (Standard for MTS) | 6x UATYAC7SB (Standard for MTS) | 12x UATYAC7SC (Standard for MTS) | 12x UATYAC7SC (Standard for MTS) | 12x UATYAC7SC (Standard for MTS) | 12x UATYAC7SC (Standard for MTS) |
|               | Filter ISO ePM10 50% (M5/F5)                                | 2x UATYAEPM1050A + 2x UATYAEPM1050B            | 3x UATYAEPM1050A + 3x UATYAEPM1050B            | 3x UATYAEPM1050B                | 12x UATYAEPM1050C                | 12x UATYAEPM1050C                | 2x UATYAEPM1050A + 2x UATYAEPM1050B            | 3x UATYAEPM1050A + 3x UATYAEPM1050B            | 3x UATYAEPM1050B                | 12x UATYAEPM1050C                | 12x UATYAEPM1050C                | 12x UATYAEPM1050C                | 2x UATYAEPM1050A + 2x UATYAEPM1050B            | 3x UATYAEPM1050A + 3x UATYAEPM1050B            | 3x UATYAEPM1050B                | 12x UATYAEPM1050C                | 12x UATYAEPM1050C                | 12x UATYAEPM1050C                | 12x UATYAEPM1050C                |
|               | Filter ISO ePM10 70% (M6)                                   | 2x UATYAEPM1070A + 2x UATYAEPM1070B            | 3x UATYAEPM1070A + 3x UATYAEPM1070B            | 6x UATYAEPM1070B                | 12x UATYAEPM1070C                | 12x UATYAEPM1070C                | 2x UATYAEPM1070A + 2x UATYAEPM1070B            | 3x UATYAEPM1070A + 3x UATYAEPM1070B            | 6x UATYAEPM1070B                | 12x UATYAEPM1070C                | 12x UATYAEPM1070C                | 12x UATYAEPM1070C                | 2x UATYAEPM1070A + 2x UATYAEPM1070B            | 3x UATYAEPM1070A + 3x UATYAEPM1070B            | 6x UATYAEPM1070B                | 12x UATYAEPM1070C                | 12x UATYAEPM1070C                | 12x UATYAEPM1070C                | 12x UATYAEPM1070C                |
|               | Rigid bag filter ISO ePM1 50% (F7)                          | 2x UATYAEPM150A + 2x UATYAEPM150B              | 3x UATYAEPM150A + 3x UATYAEPM150B              | 6x UATYAEPM150B                 | 12x UATYAEPM150C                 | 12x UATYAEPM150C                 | 2x UATYAEPM150A + 2x UATYAEPM150B              | 3x UATYAEPM150A + 3x UATYAEPM150B              | 6x UATYAEPM150B                 | 12x UATYAEPM150C                 | 12x UATYAEPM150C                 | 12x UATYAEPM150C                 | 2x UATYAEPM150A + 2x UATYAEPM150B              | 3x UATYAEPM150A + 3x UATYAEPM150B              | 6x UATYAEPM150B                 | 12x UATYAEPM150C                 | 12x UATYAEPM150C                 | 12x UATYAEPM150C                 | 12x UATYAEPM150C                 |
|               | Rigid bag filter ISO ePM1 85% (F9)                          | 2x UATYAEPM185A + 2x UATYAEPM185B              | 3x UATYAEPM185A + 3x UATYAEPM185B              | 6x UATYAEPM185B                 | 12x UATYAEPM185C                 | 12x UATYAEPM185C                 | 2x UATYAEPM185A + 2x UATYAEPM185B              | 3x UATYAEPM185A + 3x UATYAEPM185B              | 6x UATYAEPM185B                 | 12x UATYAEPM185C                 | 12x UATYAEPM185C                 | 12x UATYAEPM185C                 | 2x UATYAEPM185A + 2x UATYAEPM185B              | 3x UATYAEPM185A + 3x UATYAEPM185B              | 6x UATYAEPM185B                 | 12x UATYAEPM185C                 | 12x UATYAEPM185C                 | 12x UATYAEPM185C                 | 12x UATYAEPM185C                 |
| Control       | UATYAC02P - Duct air quality CO <sub>2</sub> probe          | ●                                              | ●                                              | ●                               | ●                                | ●                                | ●                                              | ●                                              | ●                               | ●                                | ●                                | ●                                | ●                                              | ●                                              | ●                               | ●                                | ●                                | ●                                | ●                                |
|               | UATYACAP - Constant air pressure control airflow transducer | ●                                              | ●                                              | ●                               | ●                                | ●                                | ●                                              | ●                                              | ●                               | ●                                | ●                                | ●                                | ●                                              | ●                                              | ●                               | ●                                | ●                                | ●                                | ●                                |
|               | UATYAWRC - Remote touch screen wired remote controller      | ●                                              | ●                                              | ●                               | ●                                | ●                                | ●                                              | ●                                              | ●                               | ●                                | ●                                | ●                                | ●                                              | ●                                              | ●                               | ●                                | ●                                | ●                                | ●                                |
|               | UATYARRP - Room temperature return probe (incl. housing)    | ●                                              | ●                                              | ●                               | ●                                | ●                                | ●                                              | ●                                              | ●                               | ●                                | ●                                | ●                                | ●                                              | ●                                              | ●                               | ●                                | ●                                | ●                                | ●                                |
|               | UATYASA - Fire and smoke alarm                              | ●                                              | ●                                              | ●                               | ●                                | ●                                | ●                                              | ●                                              | ●                               | ●                                | ●                                | ●                                | ●                                              | ●                                              | ●                               | ●                                | ●                                | ●                                | ●                                |
| Other         | Rainproof hood with anti-intrusion grille                   | not possible                                   | not possible                                   | not possible                    | not possible                     | not possible                     | UATYARPH3                                      | UATYARPH4                                      | UATYARPH5                       | UATYARPH6                        | UATYARPH6                        | UATYARPH6                        | UATYARPH1                                      | UATYARPH2                                      | UATYARPH8                       | UATYARPH7                        | UATYARPH7                        | UATYARPH7                        | UATYARPH7                        |
|               | Rubber antivibration mounts                                 | 2x UATYAIVM1                                   | 2x UATYAIVM1                                   | 2x UATYAIVM1 + 1x UATYAIVM2     | 4x UATYAIVM1                     | 2x UATYAIVM1 + 2x UATYAIVM2      | 2x UATYAIVM1                                   | 2x UATYAIVM1                                   | 3x UATYAIVM1 + 1x UATYAIVM2     | 4x UATYAIVM1                     | 3x UATYAIVM1 + 1x UATYAIVM2      | 2x UATYAIVM1 + 2x UATYAIVM2      | 1x UATYAIVM1 + 1x UATYAIVM2                    | 3x UATYAIVM1 + 1x UATYAIVM2                    | 2x UATYAIVM1 + 2x UATYAIVM2     | 2x UATYAIVM1 + 2x UATYAIVM2      | 2x UATYAIVM1 + 2x UATYAIVM2      | 4x UATYAIVM1 + 1x UATYAIVM2      | 3x UATYAIVM1 + 2x UATYAIVM2      |
|               | Rubber antivibration mounts when gas heater is used         | 1x UATYAIVM1 + 1x UATYAIVM2                    | 1x UATYAIVM1 + 1x UATYAIVM2                    | 1x UATYAIVM1 + 2x UATYAIVM2     | 5x UATYAIVM1                     | 5x UATYAIVM1                     | 2x UATYAIVM1                                   | 1x UATYAIVM1 + 1x UATYAIVM2                    | 4x UATYAIVM1                    | 5x UATYAIVM1                     | 5x UATYAIVM1                     | 5x UATYAIVM1                     | 1x UATYAIVM1 + 1x UATYAIVM2                    | 2x UATYAIVM1 + 1x UATYAIVM2                    | 4x UATYAIVM1                    | 5x UATYAIVM1                     | 4x UATYAIVM1 + 1x UATYAIVM2      | 3x UATYAIVM1 + 2x UATYAIVM2      | 3x UATYAIVM1 + 2x UATYAIVM2      |

## Wide choice of factory-mounted **options** on **Made-To-Order** units

### Indoor air treatment



- › Filters and rigid bag filters
- › Multistage filtration possible
- › From ISO Coarse 75% (G4) up to ISO ePM1 85% (F9)



- › Auxiliary heat sources for additional or complementary heating
- › Gas burner
- › Electric coil
- › Hot water coil



- › Steam humidifier and post-heating

- › Oversized and extraoversized supply and return radial EC plug fans to provide a higher ESP



- › Spring return dampers in case of power failure and/or fire alarm

### Outdoor air treatment

- › Anticorrosion treatment on heat exchanger

- › Standard or EC axial fan

- › Softstarter on compressor for units  $\geq 140\text{kW}$



- › Soundproof compartment on compressor

### Control options

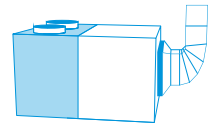
- › BMS gateway via Ethernet:
  - › SNMP & Modbus TCP/IP (standard BACnet TCP/IP connection can not be used anymore)
- › BMS gateway via 3-cable port:
  - › BACnet MS/TP OR Lonworks (standard Modbus RS485 connection can not be used anymore)

## Field applied **accessories** for **Made-To-Order** units

|         |                                                             | MT0 - BASE series | MT0 - FC2 series | MT0 - FC3 series | MT0 - RS4 series |
|---------|-------------------------------------------------------------|-------------------|------------------|------------------|------------------|
| Control | UATYACO2P - Duct air quality CO <sub>2</sub> probe          | •                 | •                | •                | •                |
|         | UATYACAP - Constant air pressure control airflow transducer | •                 | •                | •                | •                |
|         | UATYAWRC - Remote touch screen wired remote controller      | •                 | •                | •                | •                |
|         | UATYARRP - Room temperature return probe (incl. housing)    | •                 | •                | •                | •                |
|         | UATYASA - Fire and smoke detector                           | •                 | •                | •                | •                |
| Other   | Rubber antivibration mounts                                 | • (1)             | • (1)            | • (1)            | • (1)            |
|         | Rainproof hood with anti-intrusion grille                   | • (1)             | • (1)            | • (1)            | • (1)            |

<sup>(1)</sup> Reference code to be selected in selection software

# Specifications Made-To-Stock units



## UATYA-BBAY1

More details and final information can be found by scanning or clicking the QR codes.



UATYA-BBAY1

UATYA20-30BBAY1



| Indoor Unit                        |                           |                                                       | UATYA       | 25                  | 30     | 40     | 50     | 60     | 70     | 80     | 90     | 100    | 110    | 120    | 140    | 150    | 160    | 180    | 190    |
|------------------------------------|---------------------------|-------------------------------------------------------|-------------|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling capacity                   | Nom.                      |                                                       | kW          | 24.1                | 31.3   | 38.7   | 45.7   | 58.8   | 65.3   | 74.8   | 89.8   | 95.8   | 108.9  | 115.0  | 133.4  | 144.7  | 154.6  | 171.9  | 187.0  |
| Heating capacity                   | Nom.                      |                                                       | kW          | 24.0                | 29.5   | 36.3   | 46.2   | 55.1   | 64.9   | 68.5   | 84.2   | 92.8   | 101.5  | 108.0  | 123.1  | 136.4  | 147.1  | 157.1  | 176.9  |
| EER                                |                           |                                                       |             | 2.83                | 3.09   | 3.06   | 2.96   | 3.12   | 2.92   | 3.09   | 3.06   | 2.97   | 2.99   | 2.91   | 3.14   | 3.02   | 3.05   | 3.07   | 2.97   |
| COP                                |                           |                                                       |             | 3.22                | 3.31   | 3.26   | 3.24   | 3.25   | 3.21   | 3.37   | 3.22   | 3.20   | 3.35   | 3.25   | 3.44   | 3.33   | 3.26   | 3.33   | 3.27   |
| Space cooling                      | Capacity                  | Pdesign                                               | kW          | 24.1                | 31.3   | 38.7   | 45.7   | 58.8   | 65.3   | 74.8   | 89.8   | 95.8   | 108.9  | 115.0  | 133.4  | 144.7  | 154.6  | 171.9  | 187.0  |
|                                    | SEER                      |                                                       |             | 4.52                | 4.79   | 5.39   | 5.26   | 5.50   | 4.53   | 5.56   | 5.47   | 5.17   | 5.29   | 5.15   | 4.38   | 4.26   | 4.27   | 4.15   | 4.08   |
|                                    | ηs,c                      |                                                       | %           | 177.8               | 188.6  | 212.5  | 207.0  | 217.1  | 178.1  | 219.4  | 215.8  | 203.7  | 208.6  | 203.0  | 172.1  | 167.2  | 167.6  | 162.8  | 160.2  |
| Space heating<br>(Average climate) | Capacity                  | Pdesign                                               | kW          | 24.0                | 29.5   | 36.3   | 46.2   | 55.1   | 64.9   | 68.5   | 84.2   | 92.8   | 101.5  | 108.0  | 123.1  | 136.4  | 147.1  | 157.1  | 176.9  |
|                                    | SCOP/A                    |                                                       |             | 3.35                | 3.38   | 3.67   | 3.65   | 3.47   | 3.41   | 3.70   | 3.65   | 3.62   | 3.56   | 3.53   | 3.39   | 3.36   | 3.34   | 3.31   | 3.34   |
|                                    | ηs,h                      |                                                       | %           | 131.0               | 132.2  | 143.8  | 143.0  | 135.6  | 133.5  | 145.2  | 143.0  | 141.6  | 139.3  | 138.3  | 132.5  | 131.4  | 130.8  | 129.5  | 130.6  |
| Evaporator                         | Supply side               | Air discharge direction                               |             | Bottom, Right, Left |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                    | Fan                       | Air flow rate                                         | m³/h        | 4,500               | 5,800  | 7,500  | 9,000  | 11,000 | 13,000 | 14,500 | 16,500 | 18,000 | 19,800 | 21,600 | 25,000 | 26,500 | 28,000 | 30,500 | 31,500 |
|                                    |                           | Nominal ESP                                           | Pa          | 300                 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                    | Return side - Supply side | Air intake direction - Air discharge direction        |             | Rear                |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                    |                           | Thermodynamic heat recovery - Air discharge direction |             | No                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Condenser                          | Fresh air - Supply side   | Standard - Air discharge direction                    |             | No                  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                    | Air flow rate             | Cooling                                               | m³/h        | 15,725              | 16,038 | 16,374 | 16,341 | 31,183 | 32,203 | 35,774 | 37,285 | 36,195 | 38,143 | 36,865 | 70,704 | 72,395 | 67,733 | 70,200 | 72,005 |
|                                    | Refrigerant               | GWP                                                   |             | 675                 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                    | Charge                    |                                                       | kg          | 7.0                 | 10.0   | 12.0   | 15.0   | 18.0   | 23.0   | 24.0   | 28.0   | 30.0   | 36.0   | 38.0   | 46.0   | 50.0   |        |        |        |
|                                    | Dimensions                | Unit                                                  |             | 2,374               |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Weight                             | Unit                      |                                                       |             | 2,250               |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                    | Casing                    | Colour                                                |             | RAL 7035            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                    | Sound pressure level      | Cooling                                               | dBA         | 63.9                | 66.0   | 68.0   | 67.3   | 69.0   | 68.1   | 72.6   | 68.7   | 69.9   | 70.6   | 74.2   | 68.3   | 68.7   | 69.1   | 70.0   |        |
| Sound power level                  | Cooling                   |                                                       | dBA         | 82.2                | 84.3   | 86.8   | 86.1   | 88.5   | 87.5   | 92.5   | 88.6   | 89.8   | 90.5   | 94.1   | 88.6   | 89.0   | 89.3   | 90.2   |        |
|                                    | Operation range           | Cooling                                               | Min. ~ Max. | -10 ~ 48            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                                    |                           | Heating                                               | Min. ~ Max. | -15 ~ 26            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Power supply                       | Phase/Frequency/Voltage   |                                                       | Hz/V        | 3~/50/400           |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Current                            | Recommended fuses         | A                                                     |             | 25                  | 40     | 50     | 63     | 80     |        |        | 100    |        |        |        | 160    |        | 200    |        |        |

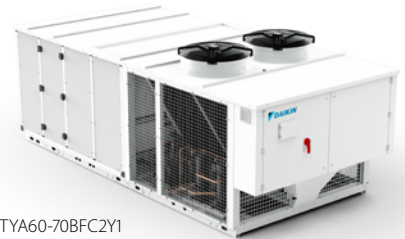
## UATYA-BFC2Y1

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UATYA-BFC2Y1

UATYA60-70BFC2Y1



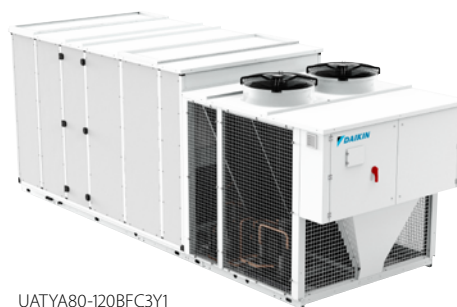
| Indoor Unit                        |                           |                                                       | UATYA | 25                | 30        | 40        | 50        | 60        | 70        | 80        | 90        | 100                 | 110       | 120       | 140       | 150       | 160       | 180       | 190       |  |
|------------------------------------|---------------------------|-------------------------------------------------------|-------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| Cooling capacity                   | Nom.                      |                                                       | kW    | 24.1              | 31.3      | 38.7      | 45.7      | 58.8      | 65.3      | 74.8      | 89.8      | 95.8                | 108.9     | 115.0     | 133.4     | 144.7     | 154.6     | 171.9     | 187.0     |  |
|                                    | With 30% fresh air        |                                                       | kW    | 25.8              | 33.6      | 41.5      | 48.9      | 63.0      | 69.9      | 80.7      | 96.6      | 102.7               | 117.0     | 122.7     | 143.1     | 154.9     | 165.7     | 184.2     | 200.5     |  |
| Heating capacity                   | Nom.                      |                                                       | kW    | 24.0              | 29.5      | 36.3      | 46.2      | 55.1      | 64.9      | 68.5      | 84.2      | 92.8                | 101.5     | 108.0     | 123.1     | 136.4     | 147.1     | 157.1     | 176.9     |  |
|                                    | With 30% fresh air        |                                                       | kW    | 24.3              | 29.6      | 36.5      | 46.3      | 55.1      | 65.1      | 69.2      | 84.7      | 94.8                | 102.1     | 108.7     | 124.2     | 137.5     | 148.4     | 158.7     | 180.2     |  |
| EER                                |                           |                                                       |       | 2.83/2.96         | 3.09/3.26 | 3.06/3.21 | 2.96/3.10 | 3.12/3.28 | 2.92/3.06 | 3.09/3.26 | 3.06/3.24 | 2.97/3.13           | 2.99/3.13 | 2.91/3.03 | 3.14/3.29 | 3.02/3.16 | 3.05/3.19 | 3.07/3.21 | 2.97/3.10 |  |
| COP                                |                           |                                                       |       | 3.22/3.43         | 3.31/3.53 | 3.26/3.48 | 3.24/3.51 | 3.25/3.47 | 3.21/3.44 | 3.37/3.62 | 3.22/3.47 | 3.20/3.46           | 3.35/3.60 | 3.25/3.48 | 3.44/3.69 | 3.33/3.57 | 3.26/3.50 | 3.33/3.58 | 3.27/3.55 |  |
| Space cooling                      | Capacity                  | Pdesign                                               | kW    | 24.1              | 31.3      | 38.7      | 45.7      | 58.8      | 65.3      | 74.8      | 89.8      | 95.8                | 108.9     | 115.0     | 133.4     | 144.7     | 154.6     | 171.9     | 187.0     |  |
|                                    | SEER                      |                                                       |       | 4.52              | 4.79      | 5.39      | 5.26      | 5.50      | 4.53      | 5.56      | 5.47      | 5.17                | 5.29      | 5.15      | 4.38      | 4.26      | 4.27      | 4.15      | 4.08      |  |
| Space heating<br>(Average climate) | ηs,c                      |                                                       | %     | 177.8             | 188.6     | 212.5     | 207.0     | 217.1     | 178.1     | 219.4     | 215.8     | 203.7               | 208.6     | 203.0     | 172.1     | 167.2     | 167.6     | 162.8     | 160.2     |  |
|                                    | Capacity                  | Pdesign                                               | kW    | 24.0              | 29.5      | 36.3      | 46.2      | 55.1      | 64.9      | 68.5      | 84.2      | 92.8                | 101.5     | 108.0     | 123.1     | 136.4     | 147.1     | 157.1     | 176.9     |  |
|                                    | SCOP/A                    |                                                       |       | 3.35              | 3.38      | 3.67      | 3.65      | 3.47      | 3.41      | 3.70      | 3.65      | 3.62                | 3.56      | 3.53      | 3.39      | 3.36      | 3.34      | 3.31      | 3.34      |  |
|                                    | ηs,h                      |                                                       | %     | 131.0             | 132.2     | 143.8     | 143.0     | 135.6     | 133.5     | 145.2     | 143.0     | 141.6               | 139.3     | 138.3     | 132.5     | 131.4     | 130.8     | 129.5     | 130.6     |  |
| Evaporator                         | Supply side               | Air discharge direction                               |       | Frontal, Left     |           |           |           |           |           |           |           | Bottom, Right, Left |           |           |           |           |           |           |           |  |
|                                    | Fan                       | Air flow rate                                         | m³/h  | 4,500             | 5,800     | 7,500     | 9,000     | 11,000    | 13,000    | 14,500    | 16,500    | 18,000              | 19,800    | 21,600    | 25,000    | 26,500    | 28,000    | 30,500    | 31,500    |  |
|                                    |                           | Nominal ESP                                           | Pa    | 300               |           |           |           |           |           |           |           |                     |           |           |           |           |           |           |           |  |
|                                    | Return side - Supply side | Air intake direction - Air discharge direction        |       | Rear, Left, Right |           |           |           |           |           |           |           |                     |           |           |           |           |           |           |           |  |
|                                    | Supply side               | Thermodynamic heat recovery - Air discharge direction |       | No                |           |           |           |           |           |           |           |                     |           |           |           |           |           |           |           |  |
|                                    | Fresh air - Supply side   | Standard - Air discharge direction                    |       | Yes               |           |           |           |           |           |           |           |                     |           |           |           |           |           |           |           |  |
|                                    | Fresh air                 | Ratio                                                 | %     | 30                |           |           |           |           |           |           |           |                     |           |           |           |           |           |           |           |  |
|                                    |                           | In free cooling                                       | %     | 100               |           |           |           |           |           |           |           |                     |           |           |           |           |           |           |           |  |
| Condenser                          | Air flow rate             | Cooling                                               | m³/h  | 15,725            | 16,038    | 16,374    | 16,341    | 31,183    | 32,203    | 35,774    | 37,285    | 36,195              | 38,143    | 36,865    | 70,704    | 72,395    | 67,733    | 70,200    | 72,005    |  |
|                                    | Refrigerant               | GWP                                                   |       | 675               |           |           |           |           |           |           |           |                     |           |           |           |           |           |           |           |  |
| Dimensions                         | Charge                    |                                                       | kg    | 7.0               | 10.0      | 12.0      | 15.0      | 18.0      | 23.0      | 24.0      | 28.0      | 30.0                | 36.0      | 38.0      | 46.0      | 50.0      |           |           |           |  |
|                                    | Unit                      | Height                                                | mm    | 1,924             |           |           |           | 2,374     |           | 1,924     |           | 2,250               |           |           |           | 2,374     |           |           |           |  |
|                                    |                           | Width                                                 | mm    |                   |           |           |           |           |           |           |           |                     |           |           |           |           |           |           |           |  |
| Weight                             | Unit                      |                                                       | kg    | 2,943             |           |           |           |           |           |           |           | 4,879               |           |           |           | 5,679     |           |           |           |  |
|                                    | Casing                    | Colour                                                |       | 981               | 1,014     | 1,084     | 1,143     | 1,703     | 1,803     | 1,984     | 2,040     | 2,110               | 2,196     | 2,206     | 2,658     | 2,668     | 2,708     | 2,746     | 2,828     |  |
| Sound pressure level               | Cooling                   |                                                       | dBA   | 63.9              | 66.0      | 68.0      | 67.3      | 69.0      | 68.1      | 72.6      | 68.7      | 69.9                | 70.6      | 74.2      | 68.3      | 68.7      | 69.1      | 70.0      |           |  |
| Sound power level                  | Cooling                   |                                                       | dBA   | 82.2              | 84.3      | 86.8      | 86.1      | 88.5      | 87.5      | 92.5      | 88.6      | 89.8                | 90.5      | 94.1      | 88.6      | 89.0      | 89.3      | 90.2      |           |  |
| Operation range                    | Cooling                   | Min. ~ Max.                                           | °CDB  | -10 ~ 48          |           |           |           |           |           |           |           |                     |           |           |           |           |           |           |           |  |
|                                    | Heating                   | Min. ~ Max.                                           | °CWB  | -15 ~ 26          |           |           |           |           |           |           |           |                     |           |           |           |           |           |           |           |  |
| Power supply                       | Phase/Frequency/Voltage   |                                                       | Hz/V  | 3~/50/400         |           |           |           |           |           |           |           |                     |           |           |           |           |           |           |           |  |
| Current                            | Recommended fuses         | A                                                     |       | 25                | 40        | 50        | 63        | 80        | 100       |           |           |                     | 160       |           |           |           | 200       |           |           |  |

## UATYA-BFC3Y1

More details and final information can be found by scanning or clicking the QR codes.



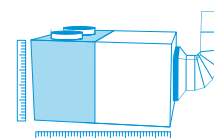
UATYA-BFC3Y1



UATYA80-120BFC3Y1

| Indoor Unit                        |                           |                                                       | UATYA                   | 25            | 30        | 40        | 50        | 60        | 70        | 80                           | 90        | 100       | 110       | 120       | 140       | 150       | 160       | 180       | 190       |        |  |  |  |
|------------------------------------|---------------------------|-------------------------------------------------------|-------------------------|---------------|-----------|-----------|-----------|-----------|-----------|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|--|--|--|
| Cooling capacity                   | Nom.                      |                                                       | kW                      | 24.1          | 31.3      | 38.7      | 45.7      | 58.8      | 65.3      | 74.8                         | 89.8      | 95.8      | 108.9     | 115.0     | 133.4     | 144.7     | 154.6     | 171.9     | 187.0     |        |  |  |  |
|                                    | With 30% fresh air        |                                                       | kW                      | 26.0          | 33.9      | 42.5      | 49.6      | 63.7      | 70.5      | 81.3                         | 96.8      | 104.3     | 118.0     | 124.5     | 145.6     | 156.8     | 168.3     | 186.5     | 204.4     |        |  |  |  |
| Heating capacity                   | Nom.                      |                                                       | kW                      | 24.0          | 29.5      | 36.3      | 46.2      | 55.1      | 64.9      | 68.5                         | 84.2      | 92.8      | 101.5     | 108.0     | 123.1     | 136.4     | 147.1     | 157.1     | 176.9     |        |  |  |  |
|                                    | With 30% fresh air        |                                                       | kW                      | 25.0          | 31.0      | 38.3      | 47.7      | 57.1      | 68.6      | 71.6                         | 87.2      | 97.9      | 107.0     | 112.3     | 132.0     | 147.5     | 160.0     | 173.5     | 191.6     |        |  |  |  |
| EER                                |                           |                                                       |                         | 2.83/2.96     | 3.09/3.20 | 3.06/3.27 | 2.96/3.12 | 3.12/3.23 | 2.92/3.00 | 3.09/3.21                    | 3.06/3.22 | 2.97/3.14 | 2.99/3.11 | 2.91/3.01 | 3.14/3.26 | 3.02/3.14 | 3.05/3.18 | 3.07/3.21 | 2.97/3.14 |        |  |  |  |
| COP                                |                           |                                                       |                         | 3.22/3.41     | 3.31/3.50 | 3.26/3.51 | 3.24/3.46 | 3.25/3.40 | 3.21/3.39 | 3.37/3.56                    | 3.22/3.45 | 3.20/3.42 | 3.35/3.57 | 3.25/3.40 | 3.44/3.62 | 3.33/3.57 | 3.26/3.49 | 3.33/3.63 | 3.27/3.50 |        |  |  |  |
| Space cooling                      | Capacity                  | Pdesign                                               | kW                      | 24.1          | 31.3      | 38.7      | 45.7      | 58.8      | 65.3      | 74.8                         | 89.8      | 95.8      | 108.9     | 115.0     | 133.4     | 144.7     | 154.6     | 171.9     | 187.0     |        |  |  |  |
|                                    | SEER                      |                                                       |                         | 4.52          | 4.79      | 5.39      | 5.26      | 5.50      | 4.53      | 5.56                         | 5.47      | 5.17      | 5.29      | 5.15      | 4.38      | 4.26      | 4.27      | 4.15      | 4.08      |        |  |  |  |
| Space heating<br>(Average climate) | ηs,c                      |                                                       | %                       | 177.8         | 188.6     | 212.5     | 207.0     | 217.1     | 178.1     | 219.4                        | 215.8     | 203.7     | 208.6     | 203.0     | 172.1     | 167.2     | 167.6     | 162.8     | 160.2     |        |  |  |  |
|                                    | Capacity                  | Pdesign                                               | kW                      | 24.0          | 29.5      | 36.3      | 46.2      | 55.1      | 64.9      | 68.5                         | 84.2      | 92.8      | 101.5     | 108.0     | 123.1     | 136.4     | 147.1     | 157.1     | 176.9     |        |  |  |  |
|                                    | SCOP/A                    |                                                       |                         | 3.35          | 3.38      | 3.67      | 3.65      | 3.47      | 3.41      | 3.70                         | 3.65      | 3.62      | 3.56      | 3.53      | 3.39      | 3.36      | 3.34      | 3.31      | 3.34      |        |  |  |  |
|                                    | ηs,h                      |                                                       | %                       | 131.0         | 132.2     | 143.8     | 143.0     | 135.6     | 133.5     | 145.2                        | 143.0     | 141.6     | 139.3     | 138.3     | 132.5     | 131.4     | 130.8     | 129.5     | 130.6     |        |  |  |  |
|                                    | Evaporator                | Supply side                                           | Air discharge direction | Frontal, Left |           |           |           |           |           | Bottom, Right, Left, Frontal |           |           |           |           |           |           |           |           |           |        |  |  |  |
|                                    | Fan                       | Air flow rate                                         | m³/h                    | 4,500         | 5,800     | 7,500     | 9,000     | 11,000    | 13,000    | 14,500                       | 16,500    | 18,000    | 19,800    | 21,600    | 25,000    | 26,500    | 28,000    | 30,500    | 31,500    |        |  |  |  |
|                                    |                           | Nominal ESP                                           | Pa                      | 300           |           |           |           |           |           |                              |           |           |           |           |           |           |           |           |           |        |  |  |  |
|                                    | Return side - Supply side | Air intake direction - Air discharge direction        |                         | Rear          |           |           |           |           |           | Right                        |           |           |           |           |           |           |           |           |           |        |  |  |  |
|                                    | Fan                       | Air flow rate                                         | m³/min                  | 4,500         | 5,800     | 7,500     | 9,000     | 11,000    | 13,000    | 14,500                       | 16,500    | 18,000    | 19,800    | 21,600    | 25,000    | 26,500    | 28,000    | 30,500    | 31,500    |        |  |  |  |
|                                    |                           | Nominal ESP                                           | Pa                      | 300           |           |           |           |           |           |                              |           |           |           |           |           |           |           |           |           |        |  |  |  |
|                                    | Return side - Supply side | Thermodynamic heat recovery - Air discharge direction |                         | Yes           |           |           |           |           |           |                              |           |           |           |           |           |           |           |           |           |        |  |  |  |
|                                    | Fresh air - Supply side   | Standard - Air discharge direction                    |                         | Yes           |           |           |           |           |           |                              |           |           |           |           |           |           |           |           |           |        |  |  |  |
|                                    | Fresh air                 | Ratio                                                 | %                       | 30            |           |           |           |           |           |                              |           |           |           |           |           |           |           |           |           |        |  |  |  |
|                                    |                           | In free cooling                                       | %                       | 100           |           |           |           |           |           |                              |           |           |           |           |           |           |           |           |           |        |  |  |  |
|                                    | Condenser                 | Air flow rate                                         | Cooling                 | m³/h          | 15,725    | 16,038    | 16,374    | 16,341    | 31,183    | 32,203                       | 35,774    | 37,285    | 36,195    | 38,143    | 36,865    | 70,704    | 72,395    | 67,733    | 70,200    | 72,005 |  |  |  |
|                                    | Refrigerant               | GWP                                                   |                         | 675           |           |           |           |           |           |                              |           |           |           |           |           |           |           |           |           |        |  |  |  |
| Dimensions                         | Unit                      | Charge                                                | kg                      | 7.0           | 10.0      | 12.0      | 15.0      | 18.0      | 23.0      | 24.0                         | 28.0      | 30.0      | 36.0      | 38.0      | 46.0      | 50.0      |           |           |           |        |  |  |  |
|                                    | Height                    |                                                       | mm                      | 1,924         |           |           |           | 1,924     |           |                              |           | 2,374     |           |           |           |           |           |           |           |        |  |  |  |
|                                    | Width                     |                                                       | mm                      |               |           |           |           |           |           |                              |           | 2,250     |           |           |           |           |           |           |           |        |  |  |  |
|                                    | Depth                     |                                                       | mm                      | 3,514         |           |           |           |           |           |                              |           | 6,317     |           |           |           | 7,117     |           |           |           |        |  |  |  |
| Weight                             | Unit                      |                                                       | kg                      | 1,166         | 1,196     | 1,310     | 1,329     | 1,996     | 2,094     | 2,336                        | 2,382     | 2,452     | 2,548     | 2,558     | 3,024     | 3,035     | 3,074     | 3,192     | 3,271     |        |  |  |  |
| Casing                             | Colour                    |                                                       |                         | RAL 7035      |           |           |           |           |           |                              |           |           |           |           |           |           |           |           |           |        |  |  |  |
| Sound pressure level               | Cooling                   |                                                       | dBA                     | 63.9          | 66.0      | 68.0      | 67.3      | 69.0      | 68.1      | 72.6                         | 68.7      | 69.9      | 70.6      | 74.2      | 68.3      | 68.7      | 69.1      | 70.0      |           |        |  |  |  |
| Sound power level                  | Cooling                   |                                                       | dBA                     | 82.2          | 84.3      | 86.8      | 86.1      | 88.5      | 87.5      | 92.5                         | 88.6      | 89.8      | 90.5      | 94.1      | 88.6      | 89.0      | 89.3      | 90.2      |           |        |  |  |  |
| Operation range                    | Cooling                   | Min. ~ Max.                                           | °CDB                    | -10 ~ 48      |           |           |           |           |           |                              |           |           |           |           |           |           |           |           |           |        |  |  |  |
|                                    | Heating                   | Min. ~ Max.                                           | °CWB                    | -15 ~ 26      |           |           |           |           |           |                              |           |           |           |           |           |           |           |           |           |        |  |  |  |
| Power supply                       | Phase/Frequency/Voltage   |                                                       | Hz/V                    | 3~/50/400     |           |           |           |           |           |                              |           |           |           |           |           |           |           |           |           |        |  |  |  |
| Current                            | Recommended fuses         |                                                       | A                       | 25            | 40        | 50        | 63        | 80        | 100       |                              |           |           | 160       |           |           |           | 200       |           |           |        |  |  |  |

## Specifications Made-To-Order units

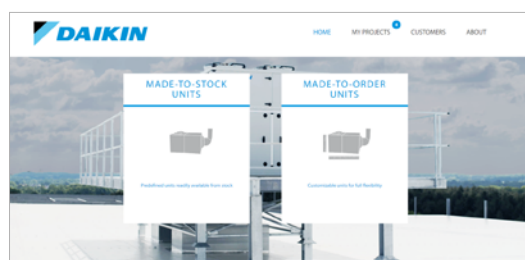


All naming in the tables above is valid for Made-To-Stock units only.

For specifications and configuration of Made-To-Order units refer to our selection software.



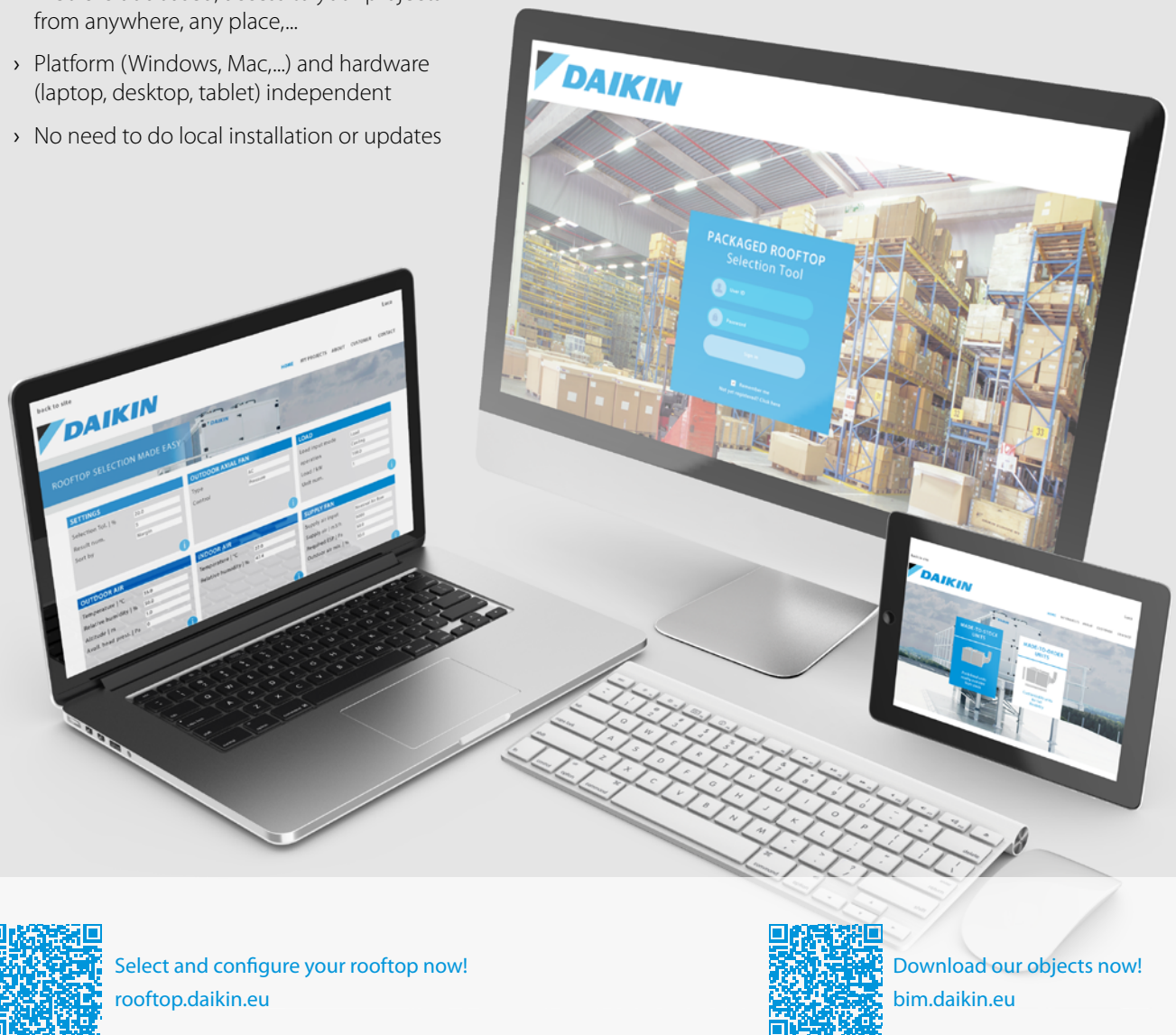
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