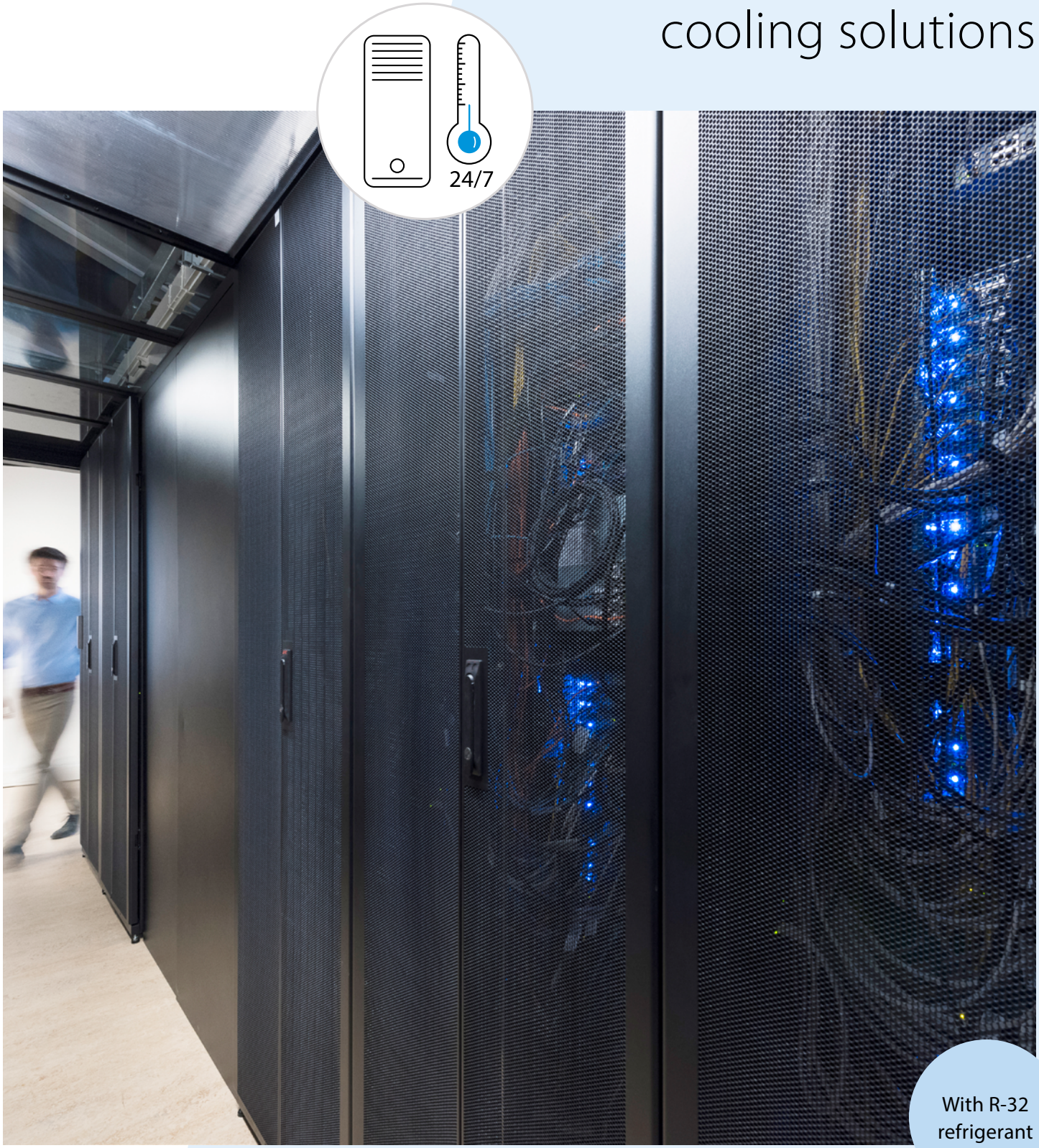
DAIKIN

SkyAir
BLUEVOLUTION

# Reliable and cost-effective technical cooling solutions



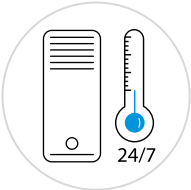

With R-32 refrigerant

For server rooms, telecom shelters, laboratories, IT applications

# Infrastructure cooling

## Why is it needed?

An infrastructure cooling system removes the heat that is constantly generated by IT equipment, servers and business supporting equipment.




- For rooms and enclosures that require round-the-clock cooling
- Where continuous uptime is the absolute requirement for
  - server data protection
  - equipment protection

To serve the increasing digital and mobile data requirements of businesses and online consumers, the IT equipment, telecom and server infrastructure have to function round the clock. Unexpected or unplanned downtime is not only costly to businesses but also impacts end-consumers who depend on the continuous access to data connections for day-to-day activities. 24/7 operations of the infrastructure in turn increase the heat loads generated within the IT/server rooms and telecom shelters. Therefore your business infrastructure requires **reliable**, **efficient** and **flexible** cooling to ensure maximum uptime while offering the best return on investment.

25%

**Basic cooling**

Small split systems and Rooftops

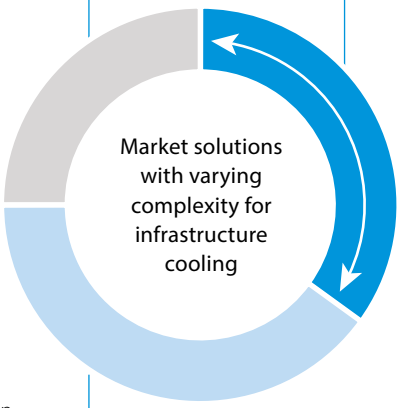
- low initial costs
- higher running costs
- limited flexibility

40%

**Sophisticated precision cooling**

Closed Control Systems

- high investment cost
- operation down to -20°C
- precise temperature control ± 1°C deviation
- humidity control
- large footprint occupies available rack space
- free cooling and mixed operation




35%

**Reliable continuous cooling**

Sky Air systems

- good return on investment
  - low running costs from better energy efficiency
  - low upfront costs
  - small physical footprint
  - free cooling
- proven reliability
  - wide operation range down to -20°C and up to +52°C
- high flexibility
  - better suited indoor units
  - modular build up
  - controls (duty rotation)

## Infrastructure cooling environments

Telecom shelters

Server rooms

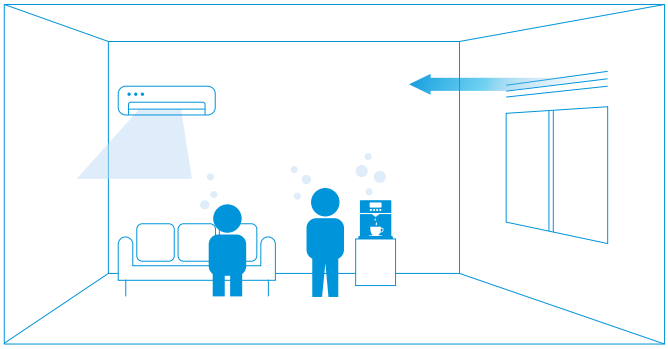
Laboratories

# Specifically designed for infrastructure cooling applications

## Understanding the mission-critical cooling application environment

### Comfort cooling

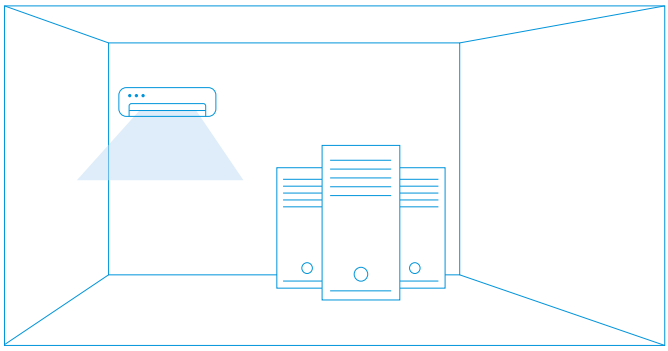
- Humidity is present
- Balanced sensible and latent capacity



→ 60-70% temperature control
→ 30-40% humidity control

### Infrastructure cooling

- No or limited humidity
- Pure sensible capacity



→ 80-90% temperature control
→ 10-20% humidity control

### Low humidity levels

Unlike a normal living environment, a typical server room or technology infrastructure environment does not generate or minimally generates humidity and moisture. Continuous cooling of such rooms also removes the humidity. Average relative humidity (RH) levels in server rooms or infrastructure rooms are lower than 30%.

These low humidity levels reduce the ability to transfer heat loads (to cool down the server rooms). Therefore the need **to boost** the cooling capacity of the indoor system.

### Constant cooling set at 20-22°C

- Protection of server equipment and back up power supply
- Emergency power supply lifetime is temperature dependant
- There is adequate buffer to compensate a potential rise in temperature
- In general, servers and other equipment infrastructure fluctuate in activity, so have increased flexibility to maintain constant temperature level

### Need for a reliable backup system

- When a failure occurs (error or shutdown by the temperature protection function), a dependable backup system should take over instantly
- Flexible control is needed to improve the reliability of the backup system

### Correct system selection is critical

- Failure of the cooling system to provide the required capacity at any time can lead to infrastructure downtime and result in business costs
- It is critical to install the right combination of a split cooling system which can guarantee reliable operation 24/7, year-round

# Why choose Daikin?

Daikin is the world leader when it comes to heating and cooling. With over 90 years of innovation and engineering expertise in specialised cooling, Daikin offers a Sky Air solution that is **reliable**, **efficient** and **flexible** to meet the demanding needs of infrastructure cooling environments.

## Reliable

Guaranteed system operation:
- Oversized indoor units boost cooling capacity and prevent freeze-ups on the indoor side
- Wide operating range envelope: operation range in cooling down to -20°C and up to +52°C

## Efficient

Optimum return on investment:
- Lowers running costs by using highly efficient direct expansion cooling systems
- Lower running costs compared to other DX systems and water based chillers.
- Reduces mechanical cooling and energy consumption with the free cooling option for single phase systems

## Flexible

- Scalable in capacity
- Improved infrastructure control and management
- Lower physical footprint since no floor space is occupied
- Wide range of indoor units to suit application preferences (ceiling suspended cassettes, wall mounted indoors, concealed ceiling ducted type indoors)

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## Boosted capacity system combinations for high sensible cooling

**Benefits**
1. Boost the heat transfer capacity of the indoor system
2. Ability to work with higher evaporation temperatures (Te) avoids downtime and enables continuous operation
3. Official energy labels for indoor and outdoor system combinations provide standardized and reliable performance data

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## 2-step solution for system selection

**Benefits**
1. Daikin makes the system selection procedure easy and reliable by providing detailed capacity tables based on extensive testing.
2. Choose the best product combination that meets end-user requirements

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## Efficient cooling

**Benefits**
1. Free cooling: optimum energy efficiency using cold ambient air
2. Widest range of indoor systems with best in class energy efficiency
3. Wide indoor and outdoor operation range, reliable performance even in extreme conditions

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## Flexible control

**Benefits**
1. Optimal backup supported by duty rotation control, automatic backup activation and remote alarms
2. Guaranteed continuous operation from extended compressor limits
3. Controller settings to adapt to specific infrastructure cooling environment conditions
4. Fewer start/stop cycles

# Boosted capacity indoor systems

## High reliability at lower running costs for infrastructure cooling

Split air conditioning systems for normal comfort cooling applications usually combine indoor systems with matching capacities, or multiple indoor systems with capacities lower than the outdoor system's capacity. This works because the indoor system's cooling capacity is sufficient to handle the higher humidity conditions and varying indoor temperature requirements that are common in a normal living environment.

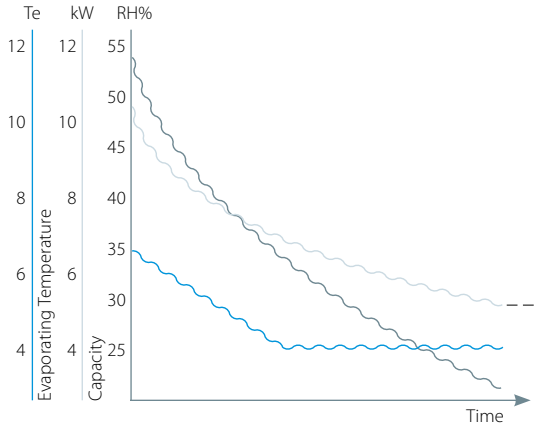
**Applying this design logic to infrastructure cooling environments can lead to risky situations that might compromise overall system reliability and frequent downtimes of 15 minutes.**

**Indoor systems for infrastructure cooling environments need enhanced capabilities for continuous heat transfer because they work harder to extract energy by cooling dry air. Daikin recommends and offers asymmetric combinations** (boosted capacity indoor combinations: e.g. 71 class outdoor + 100 class indoor).

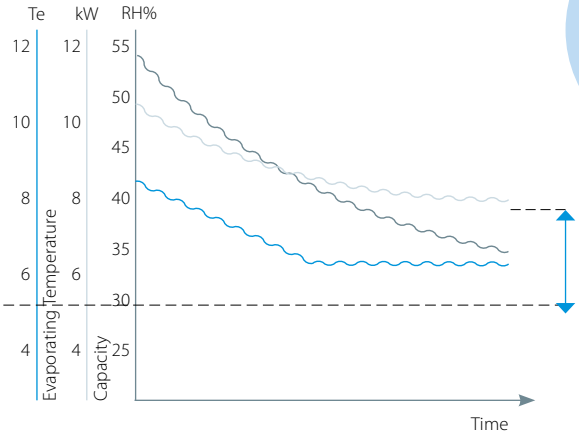
**You can now confidently combine indoor systems with higher capacities than the outdoor system.** This will boost heat transfer inside the technology or server room environments.

## Infrastructure cooling application system solutions

**Traditional solution**
Symmetric indoor-outdoor system combination




**Dedicated solution**




Between
**20-40%**
sensible capacity increase

Relative Humidity: reduces over time
Capacity: reduced
Evaporating temp: drops to compensate reduced capacity
too low Te can lead to freeze-up prevention, causing system downtime

**Improved solution**
- Boosted capacity indoors increase the heat transfer capacity at low relative humidity
- Allows the system to operate with higher Te, guaranteeing continuous operation and reducing unwanted dehumidification

Up to 18% savings on running cost

## Low humidity + Low ambient environment

| | | |
|---|---|---|
| Outside temperature Ta | -5 | °C |
| Set-point | 22 | °C |
| Humidity | 35 | % |
| Indoor wet-bulb temperature | 13 | °C |

**traditional solution**

| | | |
|---|---|---|
| RZAG71 + FAA71 | | |
| Total Capacity (TC) | 5.63 | kW |
| Sensible Heat Capacity (SHC) | 4.28 | kW |
| Power Input (PI) | 2 | kW |
| Co-efficient of Power Input (CPI) | 0.39 | |
| Corrected PI | 0.78 | kW |
| EER* | 5.5 | |

**EER**

| | |
|---|---|
| traditional solution 100% | |
| improved solution 82% | 18% savings |

**dedicated system combination solution**
RZAG71 + FAA100

| | | |
|---|---|---|
| Total Capacity (TC) | 6.02 | kW |
| Sensible Heat Capacity (SHC) | 6.02 | kW |
| Power Input (PI) | 1.72 | kW |
| Co-efficient of Power Input (CPI) | 0.45 | |
| Corrected PI | 0.77 | kW |
| EER* | 7.82 | |

Sensible Heat Capacity increases **20-40%** with dedicated system combination.

*EER = (SHC/Corrected PI)

# 2-Step solution for system selection

## High reliability for infrastructure cooling

### UNIQUE Select your infrastructure cooling system in 2 steps

**No humidity generation in room (eg: Server room)**
IT room requires 22°C inside. It will have 7kW of sensible cooling demand, and no latent cooling demand (no humidity generation) throughout the year.

Ceiling suspended indoor unit is the customer's preference for the server room.

**Indoor temperature = 22°CDB**
**Sensible cooling demand (SHC) = 7 kW**
**Latent cooling demand (LC) = 0 kW***
**Total cooling demand (TC) = SHC + LC = 7 kW**
**Outdoor temperature operating range = -20°C ~ +40°C**
**Most stringent outdoor unit capacity condition = -20°C**

#### Solution

**Boosted capacity indoor combination with 10kW outdoor system.**
RZAG100 + FHA140
Total capacity = 7.48 kW
Sensible capacity = 7.48 kW
Power input = 0.42 x 1.96 = 0.82 kW

* If there is no latent cooling demand, look for conditions where TC = SHC, since no more dehumidification will occur and thus the indoor environment will stabilize. When TC > SHC and there is no humidity generation, the indoor humidity will gradually decrease.

#### Step 1

Determine requested indoor conditions and required cooling demand (Sensible and Total capacity)

#### Step 2

Select the system combination from the given table, where the system's sensible and total capacity meets the cooling demand at the requested indoor and outdoor temperatures.

**Some humidity source in room (eg: Laboratory)**
Lab requires 22°C inside. It will have 9 kW of sensible cooling demand, and some humidity generation in the room (est. indoor humidity level 42%).

Wall mounted indoor unit is the customer's preference for the laboratory.

**Indoor temperature = 22°CDB**
**Indoor Relative Humidity (RH%) = 42%****
**Sensible cooling demand (SHC) = 9 kW**
**Latent cooling demand (LC) = 0.9 kW**
**Total cooling demand (TC) = SHC + LC = 9.9 kW**
**Outdoor temperature operating range = -20°C ~ +40°C**
**Most stringent outdoor unit capacity condition = -20°C**

#### Solution

**Boosted capacity indoor combination with 12.5kW outdoor system.**
RZAG125 + FAA71x2
Total capacity = 10.39 kW
Sensible capacity = 9.34 kW
Power input = 0.46 x 2.65 = 1.22 kW

** System capacity at 42%RH (14,2°CWB) can be found by interpolation between 13°CWB (35%) and 15°CWB (48%).

## Combination table for boosted capacity indoor systems

Infrastructure cooling combination table

| | | NEW FTXM-A | | | | FAA-B | | FHA-A(9) | | | | | | | FBA-A(9) | | | | | | | FDXM-F9 | | | FUA-A | | | FNA-A9 | | | FVA-A | | | | FFA-A9 | | | FCAHG-H | | | | FCAG-B | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| capacity class | | 35 | 50 | 60 | 71 | 71 | 100 | 35 | 50 | 60 | 71 | 100 | 125 | 140 | 35 | 50 | 60 | 71 | 100 | 125 | 140 | 35 | 50 | 60 | 71 | 100 | 125 | 35 | 50 | 60 | 71 | 100 | 125 | 140 | 35 | 50 | 60 | 71 | 100 | 125 | 140 | 35 | 50 | 60 | 71 | 100 | 125 | 140 |
| RZAG35B | | | P | | | | | | P | | | | | | | P | | | | | | | P | | | | | | P | | | | | | | P | | | | | | | P | | | | | | |
| RZAG50B | | | | P | | | | | | P | | | | | | | P | | | | | | | P | | | | | | P | | | | | | | P | | | | | | | | P | | | | |
| RZAG60AB | | | | | P | | | | | | P | | | | | | | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | P | | | |
| RZAG71NV1 | RZAG71NY1 | | | | | | P | 3 | 2 | | | P | | | 3 | 2 | | | P | | | 3 | 2 | | | P | | 3 | 2 | | | P | | | 3 | 2 | | | P | | | 3 | 2 | | | P | | |
| RZAG100NV1 | RZAG100NY1 | | | | | 2 | | 4 | 3 | | 2 | | | P | 4 | 3 | | 2 | | | P | 4 | 3 | | 2 | | | 4 | 3 | | | | | P | 4 | 3 | | 2 | | | P | 4 | 3 | | 2 | | | P |
| RZAG125NV1 | RZAG125NY1 | | | | | 2 | | 4 | 3 | | 2 | | | P | 4 | 3 | | 2 | | | P | 4 | 3 | | 2 | | | 4 | 3 | | | | | P | 4 | 3 | | 2 | | | P | 4 | 3 | | 2 | | | P |
| RZAG140NV1 | RZAG140NY1 | | | | | 2 | | 4 | 3 | | 2 | | | P | 4 | 3 | | 2 | | | P | 4 | 3 | | 2 | | | 4 | 3 | | | | | P | 4 | 3 | | 2 | | | P | 4 | 3 | | 2 | | | P |

P = Pair, 2 = Twin, 3 = Triple, 4 = Double twin; For more information on infrastructure cooling options refer to infrastructure cooling catalogue.

# Performance characteristics

## for boosted capacity indoor combinations with most common indoor units

### Boosted capacity indoor unit with 3.5kW outdoor system

#### RZAG35B / FTXM50A

| Indoor | | | Outdoor temperature [°C DB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | -20 | | | -15 | | | -10 | | | -5 | | | 0 | | | 5 | | | 10 | | | 15 | | | 20 | | | 25 | | | 30 | | | 35 | | | 40 | | |
| RH | EWB | EDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| % | °C | °C | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 41.8 | 11 | 18 | 2.86 | 2.86 | 0.22 | 2.86 | 2.86 | 0.24 | 2.86 | 2.86 | 0.26 | 2.86 | 2.86 | 0.28 | 2.86 | 2.86 | 0.30 | 2.86 | 2.86 | 0.33 | 2.86 | 2.86 | 0.35 | 2.86 | 2.86 | 0.42 | 2.86 | 2.86 | 0.49 | 2.86 | 2.86 | 0.57 | 2.86 | 2.86 | 0.67 | 2.85 | 2.85 | 0.80 | 2.69 | 2.69 | 0.86 |
| 57 | 13 | | 3.51 | 2.68 | 0.31 | 3.51 | 2.68 | 0.33 | 3.51 | 2.68 | 0.36 | 3.51 | 2.68 | 0.39 | 3.51 | 2.68 | 0.43 | 3.51 | 2.68 | 0.47 | 3.51 | 2.68 | 0.50 | 3.51 | 2.68 | 0.56 | 3.51 | 2.68 | 0.62 | 3.34 | 2.60 | 0.68 | 3.18 | 2.52 | 0.74 | 3.02 | 2.44 | 0.80 | 2.85 | 2.36 | 0.86 |
| 31.4 | 11 | 20 | 2.85 | 2.85 | 0.22 | 2.85 | 2.85 | 0.24 | 2.85 | 2.85 | 0.26 | 2.85 | 2.85 | 0.28 | 2.85 | 2.85 | 0.30 | 2.85 | 2.85 | 0.33 | 2.85 | 2.85 | 0.35 | 2.85 | 2.85 | 0.42 | 2.85 | 2.85 | 0.49 | 2.85 | 2.85 | 0.57 | 2.85 | 2.85 | 0.67 | 2.85 | 2.85 | 0.79 | 2.69 | 2.69 | 0.86 |
| 44.9 | 13 | | 3.51 | 3.13 | 0.31 | 3.51 | 3.13 | 0.33 | 3.51 | 3.13 | 0.36 | 3.51 | 3.13 | 0.39 | 3.51 | 3.13 | 0.43 | 3.51 | 3.13 | 0.47 | 3.51 | 3.13 | 0.50 | 3.51 | 3.13 | 0.56 | 3.51 | 3.13 | 0.62 | 3.34 | 3.05 | 0.68 | 3.18 | 2.97 | 0.74 | 3.02 | 2.89 | 0.80 | 2.85 | 2.81 | 0.86 |
| 52 | 14 | | 3.59 | 2.88 | 0.41 | 3.59 | 2.88 | 0.44 | 3.59 | 2.88 | 0.47 | 3.59 | 2.88 | 0.50 | 3.59 | 2.88 | 0.50 | 3.59 | 2.88 | 0.50 | 3.59 | 2.88 | 0.50 | 3.59 | 2.88 | 0.56 | 3.59 | 2.88 | 0.62 | 3.42 | 2.80 | 0.68 | 3.26 | 2.73 | 0.74 | 3.10 | 2.65 | 0.80 | 2.93 | 2.58 | 0.86 |
| 22.9 | 11 | 22 | 2.84 | 2.84 | 0.22 | 2.84 | 2.84 | 0.23 | 2.84 | 2.84 | 0.25 | 2.84 | 2.84 | 0.28 | 2.84 | 2.84 | 0.30 | 2.84 | 2.84 | 0.32 | 2.84 | 2.84 | 0.35 | 2.84 | 2.84 | 0.41 | 2.84 | 2.84 | 0.49 | 2.84 | 2.84 | 0.57 | 2.84 | 2.84 | 0.67 | 2.84 | 2.84 | 0.79 | 2.69 | 2.69 | 0.86 |
| 34.8 | 13 | | 3.51 | 3.51 | 0.31 | 3.51 | 3.51 | 0.33 | 3.51 | 3.51 | 0.36 | 3.51 | 3.51 | 0.39 | 3.51 | 3.51 | 0.43 | 3.51 | 3.51 | 0.47 | 3.51 | 3.51 | 0.50 | 3.51 | 3.51 | 0.56 | 3.51 | 3.51 | 0.62 | 3.34 | 3.34 | 0.68 | 3.18 | 3.18 | 0.74 | 3.02 | 3.02 | 0.80 | 2.85 | 2.85 | 0.86 |
| 47.6 | 15 | | 3.67 | 3.08 | 0.50 | 3.67 | 3.08 | 0.50 | 3.67 | 3.08 | 0.50 | 3.67 | 3.08 | 0.50 | 3.67 | 3.08 | 0.50 | 3.67 | 3.08 | 0.50 | 3.67 | 3.08 | 0.50 | 3.67 | 3.08 | 0.56 | 3.67 | 3.08 | 0.62 | 3.50 | 3.01 | 0.68 | 3.34 | 2.93 | 0.74 | 3.18 | 2.86 | 0.80 | 3.01 | 2.79 | 0.86 |
| 54.3 | 16 | | 3.75 | 2.83 | 0.51 | 3.75 | 2.83 | 0.51 | 3.75 | 2.83 | 0.51 | 3.75 | 2.83 | 0.51 | 3.75 | 2.83 | 0.51 | 3.75 | 2.83 | 0.51 | 3.75 | 2.83 | 0.51 | 3.75 | 2.83 | 0.57 | 3.75 | 2.83 | 0.62 | 3.58 | 2.76 | 0.68 | 3.42 | 2.69 | 0.74 | 3.26 | 2.62 | 0.80 | 3.10 | 2.55 | 0.86 |
| 21.2 | 12 | 24 | 3.37 | 3.37 | 0.26 | 3.37 | 3.37 | 0.29 | 3.37 | 3.37 | 0.31 | 3.37 | 3.37 | 0.34 | 3.37 | 3.37 | 0.36 | 3.37 | 3.37 | 0.40 | 3.37 | 3.37 | 0.43 | 3.37 | 3.37 | 0.51 | 3.37 | 3.37 | 0.60 | 3.26 | 3.26 | 0.68 | 3.10 | 3.10 | 0.74 | 2.94 | 2.94 | 0.80 | 2.77 | 2.77 | 0.86 |
| 32.1 | 14 | | 3.59 | 3.59 | 0.41 | 3.59 | 3.59 | 0.44 | 3.59 | 3.59 | 0.47 | 3.59 | 3.59 | 0.50 | 3.59 | 3.59 | 0.50 | 3.59 | 3.59 | 0.50 | 3.59 | 3.59 | 0.50 | 3.59 | 3.59 | 0.56 | 3.59 | 3.59 | 0.62 | 3.42 | 3.42 | 0.68 | 3.26 | 3.26 | 0.74 | 3.10 | 3.10 | 0.80 | 2.93 | 2.93 | 0.86 |
| 43.8 | 16 | | 3.75 | 3.28 | 0.51 | 3.75 | 3.28 | 0.51 | 3.75 | 3.28 | 0.51 | 3.75 | 3.28 | 0.51 | 3.75 | 3.28 | 0.51 | 3.75 | 3.28 | 0.51 | 3.75 | 3.28 | 0.51 | 3.75 | 3.28 | 0.57 | 3.75 | 3.28 | 0.62 | 3.58 | 3.21 | 0.68 | 3.42 | 3.14 | 0.74 | 3.26 | 3.07 | 0.80 | 3.10 | 3.00 | 0.86 |
| 50 | 17 | | 3.83 | 3.03 | 0.51 | 3.83 | 3.03 | 0.51 | 3.83 | 3.03 | 0.51 | 3.83 | 3.03 | 0.51 | 3.83 | 3.03 | 0.51 | 3.83 | 3.03 | 0.51 | 3.83 | 3.03 | 0.51 | 3.83 | 3.03 | 0.57 | 3.83 | 3.03 | 0.63 | 3.66 | 2.96 | 0.69 | 3.50 | 2.89 | 0.75 | 3.34 | 2.82 | 0.81 | 3.18 | 2.75 | 0.87 |
| 21.5 | 14 | 27 | 3.59 | 3.59 | 0.41 | 3.59 | 3.59 | 0.44 | 3.59 | 3.59 | 0.47 | 3.59 | 3.59 | 0.50 | 3.59 | 3.59 | 0.50 | 3.59 | 3.59 | 0.50 | 3.59 | 3.59 | 0.50 | 3.59 | 3.59 | 0.56 | 3.59 | 3.59 | 0.62 | 3.42 | 3.42 | 0.68 | 3.26 | 3.26 | 0.74 | 3.10 | 3.10 | 0.80 | 2.93 | 2.93 | 0.86 |
| 26.3 | 15 | | 3.67 | 3.67 | 0.50 | 3.67 | 3.67 | 0.50 | 3.67 | 3.67 | 0.50 | 3.67 | 3.67 | 0.50 | 3.67 | 3.67 | 0.50 | 3.67 | 3.67 | 0.50 | 3.67 | 3.67 | 0.50 | 3.67 | 3.67 | 0.56 | 3.67 | 3.67 | 0.62 | 3.50 | 3.50 | 0.68 | 3.34 | 3.34 | 0.74 | 3.18 | 3.18 | 0.80 | 3.01 | 3.01 | 0.86 |
| 31.3 | 16 | | 3.75 | 3.75 | 0.51 | 3.75 | 3.75 | 0.51 | 3.75 | 3.75 | 0.51 | 3.75 | 3.75 | 0.51 | 3.75 | 3.75 | 0.51 | 3.75 | 3.75 | 0.51 | 3.75 | 3.75 | 0.51 | 3.75 | 3.75 | 0.57 | 3.75 | 3.75 | 0.62 | 3.58 | 3.58 | 0.68 | 3.42 | 3.42 | 0.74 | 3.26 | 3.26 | 0.80 | 3.10 | 3.10 | 0.86 |

4D151947

#### RZAG35B / FHA50A9

| Indoor | | | Outdoor temperature [°C DB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | -20 | | | -15 | | | -10 | | | -5 | | | 0 | | | 5 | | | 10 | | | 15 | | | 20 | | | 25 | | | 30 | | | 35 | | | 40 | | |
| RH | EWB | EDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| % | °C | °C | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 41.8 | 11 | 18 | 3.34 | 3.34 | 0.22 | 3.34 | 3.34 | 0.24 | 3.34 | 3.34 | 0.27 | 3.34 | 3.34 | 0.29 | 3.34 | 3.34 | 0.32 | 3.34 | 3.34 | 0.35 | 3.34 | 3.34 | 0.41 | 3.34 | 3.34 | 0.47 | 3.34 | 3.34 | 0.53 | 3.18 | 3.18 | 0.58 | 3.02 | 3.02 | 0.63 | 2.85 | 2.85 | 0.68 | 2.69 | 2.69 | 0.73 |
| 57 | 13 | | 3.51 | 2.88 | 0.35 | 3.51 | 2.88 | 0.38 | 3.51 | 2.88 | 0.38 | 3.51 | 2.88 | 0.38 | 3.51 | 2.88 | 0.38 | 3.51 | 2.88 | 0.38 | 3.51 | 2.88 | 0.43 | 3.51 | 2.88 | 0.48 | 3.51 | 2.88 | 0.53 | 3.34 | 2.80 | 0.58 | 3.18 | 2.73 | 0.63 | 3.02 | 2.65 | 0.68 | 2.85 | 2.58 | 0.74 |
| 31.4 | 11 | 20 | 3.34 | 3.34 | 0.22 | 3.34 | 3.34 | 0.24 | 3.34 | 3.34 | 0.27 | 3.34 | 3.34 | 0.29 | 3.34 | 3.34 | 0.32 | 3.34 | 3.34 | 0.35 | 3.34 | 3.34 | 0.41 | 3.34 | 3.34 | 0.47 | 3.34 | 3.34 | 0.53 | 3.18 | 3.18 | 0.58 | 3.02 | 3.02 | 0.63 | 2.85 | 2.85 | 0.68 | 2.69 | 2.69 | 0.73 |
| 44.9 | 13 | | 3.51 | 3.42 | 0.35 | 3.51 | 3.42 | 0.38 | 3.51 | 3.42 | 0.38 | 3.51 | 3.42 | 0.38 | 3.51 | 3.42 | 0.38 | 3.51 | 3.42 | 0.38 | 3.51 | 3.42 | 0.43 | 3.51 | 3.42 | 0.48 | 3.51 | 3.42 | 0.53 | 3.34 | 3.34 | 0.58 | 3.18 | 3.18 | 0.63 | 3.02 | 3.02 | 0.68 | 2.85 | 2.85 | 0.74 |
| 52 | 14 | | 3.59 | 3.13 | 0.43 | 3.59 | 3.13 | 0.43 | 3.59 | 3.13 | 0.43 | 3.59 | 3.13 | 0.43 | 3.59 | 3.13 | 0.43 | 3.59 | 3.13 | 0.43 | 3.59 | 3.13 | 0.43 | 3.59 | 3.13 | 0.48 | 3.59 | 3.13 | 0.53 | 3.42 | 3.06 | 0.58 | 3.26 | 2.98 | 0.63 | 3.10 | 2.91 | 0.69 | 2.93 | 2.84 | 0.74 |
| 22.9 | 11 | 22 | 3.34 | 3.34 | 0.22 | 3.34 | 3.34 | 0.24 | 3.34 | 3.34 | 0.26 | 3.34 | 3.34 | 0.29 | 3.34 | 3.34 | 0.32 | 3.34 | 3.34 | 0.35 | 3.34 | 3.34 | 0.41 | 3.34 | 3.34 | 0.47 | 3.34 | 3.34 | 0.53 | 3.18 | 3.18 | 0.58 | 3.02 | 3.02 | 0.63 | 2.85 | 2.85 | 0.68 | 2.69 | 2.69 | 0.73 |
| 34.8 | 13 | | 3.51 | 3.51 | 0.35 | 3.51 | 3.51 | 0.38 | 3.51 | 3.51 | 0.38 | 3.51 | 3.51 | 0.38 | 3.51 | 3.51 | 0.38 | 3.51 | 3.51 | 0.38 | 3.51 | 3.51 | 0.43 | 3.51 | 3.51 | 0.48 | 3.51 | 3.51 | 0.53 | 3.34 | 3.34 | 0.58 | 3.18 | 3.18 | 0.63 | 3.02 | 3.02 | 0.68 | 2.85 | 2.85 | 0.74 |
| 47.6 | 15 | | 3.67 | 3.38 | 0.43 | 3.67 | 3.38 | 0.43 | 3.67 | 3.38 | 0.43 | 3.67 | 3.38 | 0.43 | 3.67 | 3.38 | 0.43 | 3.67 | 3.38 | 0.43 | 3.67 | 3.38 | 0.43 | 3.67 | 3.38 | 0.48 | 3.67 | 3.38 | 0.53 | 3.50 | 3.31 | 0.58 | 3.34 | 3.23 | 0.64 | 3.18 | 3.16 | 0.69 | 3.01 | 3.01 | 0.74 |
| 54.3 | 16 | | 3.75 | 3.08 | 0.43 | 3.75 | 3.08 | 0.43 | 3.75 | 3.08 | 0.43 | 3.75 | 3.08 | 0.43 | 3.75 | 3.08 | 0.43 | 3.75 | 3.08 | 0.43 | 3.75 | 3.08 | 0.43 | 3.75 | 3.08 | 0.48 | 3.75 | 3.08 | 0.53 | 3.58 | 3.01 | 0.59 | 3.42 | 2.94 | 0.64 | 3.26 | 2.87 | 0.69 | 3.10 | 2.81 | 0.74 |
| 21.2 | 12 | 24 | 3.42 | 3.42 | 0.24 | 3.42 | 3.42 | 0.26 | 3.42 | 3.42 | 0.29 | 3.42 | 3.42 | 0.32 | 3.42 | 3.42 | 0.35 | 3.42 | 3.42 | 0.37 | 3.42 | 3.42 | 0.43 | 3.42 | 3.42 | 0.48 | 3.42 | 3.42 | 0.53 | 3.26 | 3.26 | 0.58 | 3.10 | 3.10 | 0.63 | 2.94 | 2.94 | 0.68 | 2.77 | 2.77 | 0.73 |
| 32.1 | 14 | | 3.59 | 3.59 | 0.43 | 3.59 | 3.59 | 0.43 | 3.59 | 3.59 | 0.43 | 3.59 | 3.59 | 0.43 | 3.59 | 3.59 | 0.43 | 3.59 | 3.59 | 0.43 | 3.59 | 3.59 | 0.43 | 3.59 | 3.59 | 0.48 | 3.59 | 3.59 | 0.53 | 3.42 | 3.42 | 0.58 | 3.26 | 3.26 | 0.63 | 3.10 | 3.10 | 0.69 | 2.93 | 2.93 | 0.74 |
| 43.8 | 16 | | 3.75 | 3.62 | 0.43 | 3.75 | 3.62 | 0.43 | 3.75 | 3.62 | 0.43 | 3.75 | 3.62 | 0.43 | 3.75 | 3.62 | 0.43 | 3.75 | 3.62 | 0.43 | 3.75 | 3.62 | 0.43 | 3.75 | 3.62 | 0.48 | 3.75 | 3.62 | 0.53 | 3.58 | 3.55 | 0.59 | 3.42 | 3.42 | 0.64 | 3.26 | 3.26 | 0.69 | 3.10 | 3.10 | 0.74 |
| 50 | 17 | | 3.83 | 3.32 | 0.43 | 3.83 | 3.32 | 0.43 | 3.83 | 3.32 | 0.43 | 3.83 | 3.32 | 0.43 | 3.83 | 3.32 | 0.43 | 3.83 | 3.32 | 0.43 | 3.83 | 3.32 | 0.43 | 3.83 | 3.32 | 0.49 | 3.83 | 3.32 | 0.54 | 3.66 | 3.26 | 0.59 | 3.50 | 3.19 | 0.64 | 3.34 | 3.12 | 0.69 | 3.18 | 3.06 | 0.74 |
| 21.5 | 14 | 27 | 3.59 | 3.59 | 0.38 | 3.59 | 3.59 | 0.38 | 3.59 | 3.59 | 0.38 | 3.59 | 3.59 | 0.38 | 3.59 | 3.59 | 0.38 | 3.59 | 3.59 | 0.38 | 3.59 | 3.59 | 0.43 | 3.59 | 3.59 | 0.48 | 3.59 | 3.59 | 0.53 | 3.42 | 3.42 | 0.58 | 3.26 | 3.26 | 0.63 | 3.10 | 3.10 | 0.69 | 2.93 | 2.93 | 0.74 |
| 26.3 | 15 | | 3.67 | 3.67 | 0.43 | 3.67 | 3.67 | 0.43 | 3.67 | 3.67 | 0.43 | 3.67 | 3.67 | 0.43 | 3.67 | 3.67 | 0.43 | 3.67 | 3.67 | 0.43 | 3.67 | 3.67 | 0.43 | 3.67 | 3.67 | 0.48 | 3.67 | 3.67 | 0.53 | 3.50 | 3.50 | 0.58 | 3.34 | 3.34 | 0.64 | 3.18 | 3.18 | 0.69 | 3.01 | 3.01 | 0.74 |
| 31.3 | 16 | | 3.75 | 3.75 | 0.43 | 3.75 | 3.75 | 0.43 | 3.75 | 3.75 | 0.43 | 3.75 | 3.75 | 0.43 | 3.75 | 3.75 | 0.43 | 3.75 | 3.75 | 0.43 | 3.75 | 3.75 | 0.43 | 3.75 | 3.75 | 0.48 | 3.75 | 3.75 | 0.53 | 3.58 | 3.58 | 0.59 | 3.42 | 3.42 | 0.64 | 3.26 | 3.26 | 0.69 | 3.10 | 3.10 | 0.74 |

4D151947

#### RZAG35B / FBA50A9

| Indoor | | | Outdoor temperature [°C DB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | -20 | | | -15 | | | -10 | | | -5 | | | 0 | | | 5 | | | 10 | | | 15 | | | 20 | | | 25 | | | 30 | | | 35 | | | 40 | | |
| RH | EWB | EDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| % | °C | °C | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 41.8 | 11 | 18 | 3.34 | 3.34 | 0.25 | 3.34 | 3.34 | 0.27 | 3.34 | 3.34 | 0.30 | 3.34 | 3.34 | 0.33 | 3.34 | 3.34 | 0.36 | 3.34 | 3.34 | 0.39 | 3.34 | 3.34 | 0.46 | 3.34 | 3.34 | 0.52 | 3.34 | 3.34 | 0.58 | 3.18 | 3.18 | 0.63 | 3.02 | 3.02 | 0.69 | 2.85 | 2.85 | 0.74 | 2.69 | 2.69 | 0.80 |
| 57 | 13 | | 3.51 | 2.92 | 0.41 | 3.51 | 2.92 | 0.41 | 3.51 | 2.92 | 0.41 | 3.51 | 2.92 | 0.41 | 3.51 | 2.92 | 0.41 | 3.51 | 2.92 | 0.41 | 3.51 | 2.92 | 0.47 | 3.51 | 2.92 | 0.52 | 3.51 | 2.92 | 0.58 | 3.34 | 2.85 | 0.64 | 3.18 | 2.77 | 0.69 | 3.02 | 2.69 | 0.75 | 2.85 | 2.62 | 0.80 |
| 31.4 | 11 | 20 | 3.34 | 3.34 | 0.25 | 3.34 | 3.34 | 0.27 | 3.34 | 3.34 | 0.30 | 3.34 | 3.34 | 0.33 | 3.34 | 3.34 | 0.36 | 3.34 | 3.34 | 0.39 | 3.34 | 3.34 | 0.46 | 3.34 | 3.34 | 0.52 | 3.34 | 3.34 | 0.58 | 3.18 | 3.18 | 0.63 | 3.02 | 3.02 | 0.69 | 2.85 | 2.85 | 0.74 | 2.69 | 2.69 | 0.80 |
| 44.9 | 13 | | 3.51 | 3.48 | 0.41 | 3.51 | 3.48 | 0.41 | 3.51 | 3.48 | 0.41 | 3.51 | 3.48 | 0.41 | 3.51 | 3.48 | 0.41 | 3.51 | 3.48 | 0.41 | 3.51 | 3.48 | 0.47 | 3.51 | 3.48 | 0.52 | 3.51 | 3.48 | 0.58 | 3.34 | 3.34 | 0.64 | 3.18 | 3.18 | 0.69 | 3.02 | 3.02 | 0.75 | 2.85 | 2.85 | 0.80 |
| 52 | 14 | | 3.59 | 3.18 | 0.47 | 3.59 | 3.18 | 0.47 | 3.59 | 3.18 | 0.47 | 3.59 | 3.18 | 0.47 | 3.59 | 3.18 | 0.47 | 3.59 | 3.18 | 0.47 | 3.59 | 3.18 | 0.47 | 3.59 | 3.18 | 0.53 | 3.59 | 3.18 | 0.58 | 3.42 | 3.11 | 0.64 | 3.26 | 3.03 | 0.69 | 3.10 | 2.96 | 0.75 | 2.93 | 2.89 | 0.81 |
| 22.9 | 11 | 22 | 3.34 | 3.34 | 0.24 | 3.34 | 3.34 | 0.27 | 3.34 | 3.34 | 0.30 | 3.34 | 3.34 | 0.33 | 3.34 | 3.34 | 0.36 | 3.34 | 3.34 | 0.39 | 3.34 | 3.34 | 0.46 | 3.34 | 3.34 | 0.52 | 3.34 | 3.34 | 0.58 | 3.18 | 3.18 | 0.63 | 3.02 | 3.02 | 0.69 | 2.85 | 2.85 | 0.74 | 2.69 | 2.69 | 0.80 |
| 34.8 | 13 | | 3.51 | 3.51 | 0.41 | 3.51 | 3.51 | 0.41 | 3.51 | 3.51 | 0.41 | 3.51 | 3.51 | 0.41 | 3.51 | 3.51 | 0.41 | 3.51 | 3.51 | 0.41 | 3.51 | 3.51 | 0.47 | 3.51 | 3.51 | 0.52 | 3.51 | 3.51 | 0.58 | 3.34 | 3.34 | 0.64 | 3.18 | 3.18 | 0.69 | 3.02 | 3.02 | 0.75 | 2.85 | 2.85 | 0.80 |
| 47.6 | 15 | | 3.67 | 3.44 | 0.47 | 3.67 | 3.44 | 0.47 | 3.67 | 3.44 | 0.47 | 3.67 | 3.44 | 0.47 | 3.67 | 3.44 | 0.47 | 3.67 | 3.44 | 0.47 | 3.67 | 3.44 | 0.47 | 3.67 | 3.44 | 0.53 | 3.67 | 3.44 | 0.58 | 3.50 | 3.37 | 0.64 | 3.34 | 3.29 | 0.70 | 3.18 | 3.18 | 0.75 | 3.01 | 3.01 | 0.81 |
| 54.3 | 16 | | 3.75 | 3.13 | 0.47 | 3.75 | 3.13 | 0.47 | 3.75 | 3.13 | 0.47 | 3.75 | 3.13 | 0.47 | 3.75 | 3.13 | 0.47 | 3.75 | 3.13 | 0.47 | 3.75 | 3.13 | 0.47 | 3.75 | 3.13 | 0.53 | 3.75 | 3.13 | 0.58 | 3.58 | 3.06 | 0.64 | 3.42 | 2.99 | 0.70 | 3.26 | 2.92 | 0.75 | 3.10 | 2.86 | 0.81 |
| 21.2 | 12 | 24 | 3.42 | 3.42 | 0.29 | 3.42 | 3.42 | 0.32 | 3.42 | 3.42 | 0.35 | 3.42 | 3.42 | 0.38 | 3.42 | 3.42 | 0.41 | 3.42 | 3.42 | 0.41 | 3.42 | 3.42 | 0.47 | 3.42 | 3.42 | 0.52 | 3.42 | 3.42 | 0.58 | 3.26 | 3.26 | 0.63 | 3.10 | 3.10 | 0.69 | 2.94 | 2.94 | 0.75 | 2.77 | 2.77 | 0.80 |
| 32.1 | 14 | | 3.59 | 3.59 | 0.47 | 3.59 | 3.59 | 0.47 | 3.59 | 3.59 | 0.47 | 3.59 | 3.59 | 0.47 | 3.59 | 3.59 | 0.47 | 3.59 | 3.59 | 0.47 | 3.59 | 3.59 | 0.47 | 3.59 | 3.59 | 0.53 | 3.59 | 3.59 | 0.58 | 3.42 | 3.42 | 0.64 | 3.26 | 3.26 | 0.69 | 3.10 | 3.10 | 0.75 | 2.93 | 2.93 | 0.81 |
| 43.8 | 16 | | 3.75 | 3.69 | 0.47 | 3.75 | 3.69 | 0.47 | 3.75 | 3.69 | 0.47 | 3.75 | 3.69 | 0.47 | 3.75 | 3.69 | 0.47 | 3.75 | 3.69 | 0.47 | 3.75 | 3.69 | 0.47 | 3.75 | 3.69 | 0.53 | 3.75 | 3.69 | 0.58 | 3.58 | 3.58 | 0.64 | 3.42 | 3.42 | 0.70 | 3.26 | 3.26 | 0.75 | 3.10 | 3.10 | 0.81 |
| 50 | 17 | | 3.83 | 3.38 | 0.47 | 3.83 | 3.38 | 0.47 | 3.83 | 3.38 | 0.47 | 3.83 | 3.38 | 0.47 | 3.83 | 3.38 | 0.47 | 3.83 | 3.38 | 0.47 | 3.83 | 3.38 | 0.47 | 3.83 | 3.38 | 0.53 | 3.83 | 3.38 | 0.59 | 3.66 | 3.32 | 0.64 | 3.50 | 3.25 | 0.70 | 3.34 | 3.18 | 0.75 | 3.18 | 3.12 | 0.81 |
| 21.5 | 14 | 27 | 3.59 | 3.59 | 0.47 | 3.59 | 3.59 | 0.47 | 3.59 | 3.59 | 0.47 | 3.59 | 3.59 | 0.47 | 3.59 | 3.59 | 0.47 | 3.59 | 3.59 | 0.47 | 3.59 | 3.59 | 0.47 | 3.59 | 3.59 | 0.53 | 3.59 | 3.59 | 0.58 | 3.42 | 3.42 | 0.64 | 3.26 | 3.26 | 0.69 | 3.10 | 3.10 | 0.75 | 2.93 | 2.93 | 0.81 |
| 26.3 | 15 | | 3.67 | 3.67 | 0.47 | 3.67 | 3.67 | 0.47 | 3.67 | 3.67 | 0.47 | 3.67 | 3.67 | 0.47 | 3.67 | 3.67 | 0.47 | 3.67 | 3.67 | 0.47 | 3.67 | 3.67 | 0.47 | 3.67 | 3.67 | 0.53 | 3.67 | 3.67 | 0.58 | 3.50 | 3.50 | 0.64 | 3.34 | 3.34 | 0.70 | 3.18 | 3.18 | 0.75 | 3.01 | 3.01 | 0.81 |
| 31.3 | 16 | | 3.75 | 3.75 | 0.47 | 3.75 | 3.75 | 0.47 | 3.75 | 3.75 | 0.47 | 3.75 | 3.75 | 0.47 | 3.75 | 3.75 | 0.47 | 3.75 | 3.75 | 0.47 | 3.75 | 3.75 | 0.47 | 3.75 | 3.75 | 0.53 | 3.75 | 3.75 | 0.58 | 3.58 | 3.58 | 0.64 | 3.42 | 3.42 | 0.70 | 3.26 | 3.26 | 0.75 | 3.10 | 3.10 | 0.81 |

4D151947

# Boosted capacity indoor unit with 5kW outdoor system

## RZAG50B / FTXM60A

| Indoor | | | Outdoor temperature [°C DB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | -20 | | | -15 | | | -10 | | | -5 | | | 0 | | | 5 | | | 10 | | | 15 | | | 20 | | | 25 | | | 30 | | | 35 | | | 40 | | |
| RH | EWB | EDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| % | °C | °C | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 41.8 | 11 | 18 | 3.27 | 3.27 | 0.44 | 3.27 | 3.27 | 0.47 | 3.27 | 3.27 | 0.51 | 3.27 | 3.27 | 0.56 | 3.27 | 3.27 | 0.62 | 3.27 | 3.27 | 0.68 | 3.27 | 3.27 | 0.75 | 3.27 | 3.27 | 0.85 | 3.27 | 3.27 | 0.94 | 3.27 | 3.27 | 1.03 | 3.27 | 3.27 | 1.13 | 3.27 | 3.27 | 1.22 | 3.27 | 3.27 | 1.31 |
| 57 | 13 | | 4.54 | 3.33 | 0.46 | 4.54 | 3.33 | 0.50 | 4.54 | 3.33 | 0.55 | 4.54 | 3.33 | 0.60 | 4.54 | 3.33 | 0.65 | 4.54 | 3.33 | 0.71 | 4.54 | 3.33 | 0.76 | 4.54 | 3.33 | 0.86 | 4.54 | 3.33 | 0.95 | 4.54 | 3.33 | 1.04 | 4.54 | 3.33 | 1.13 | 4.31 | 3.21 | 1.22 | 4.08 | 3.10 | 1.32 |
| 31.4 | 11 | 20 | 3.26 | 3.26 | 0.44 | 3.26 | 3.26 | 0.47 | 3.26 | 3.26 | 0.51 | 3.26 | 3.26 | 0.56 | 3.26 | 3.26 | 0.62 | 3.26 | 3.26 | 0.68 | 3.26 | 3.26 | 0.75 | 3.26 | 3.26 | 0.85 | 3.26 | 3.26 | 0.94 | 3.26 | 3.26 | 1.03 | 3.26 | 3.26 | 1.13 | 3.26 | 3.26 | 1.22 | 3.26 | 3.26 | 1.31 |
| 44.9 | 13 | | 4.52 | 3.84 | 0.46 | 4.52 | 3.84 | 0.50 | 4.52 | 3.84 | 0.55 | 4.52 | 3.84 | 0.60 | 4.52 | 3.84 | 0.65 | 4.52 | 3.84 | 0.71 | 4.52 | 3.84 | 0.76 | 4.52 | 3.84 | 0.86 | 4.52 | 3.84 | 0.95 | 4.52 | 3.84 | 1.04 | 4.52 | 3.84 | 1.13 | 4.31 | 3.73 | 1.22 | 4.08 | 3.61 | 1.32 |
| 52 | 14 | | 5.12 | 3.80 | 0.47 | 5.12 | 3.80 | 0.52 | 5.12 | 3.80 | 0.56 | 5.12 | 3.80 | 0.61 | 5.12 | 3.80 | 0.66 | 5.12 | 3.80 | 0.72 | 5.12 | 3.80 | 0.77 | 5.12 | 3.80 | 0.86 | 5.12 | 3.80 | 0.95 | 4.89 | 3.68 | 1.04 | 4.66 | 3.57 | 1.13 | 4.42 | 3.45 | 1.23 | 4.19 | 3.34 | 1.32 |
| 22.9 | 11 | 22 | 3.25 | 3.25 | 0.44 | 3.25 | 3.25 | 0.47 | 3.25 | 3.25 | 0.51 | 3.25 | 3.25 | 0.56 | 3.25 | 3.25 | 0.62 | 3.25 | 3.25 | 0.68 | 3.25 | 3.25 | 0.75 | 3.25 | 3.25 | 0.85 | 3.25 | 3.25 | 0.94 | 3.25 | 3.25 | 1.03 | 3.25 | 3.25 | 1.13 | 3.25 | 3.25 | 1.22 | 3.25 | 3.25 | 1.31 |
| 34.8 | 13 | | 4.51 | 4.34 | 0.46 | 4.51 | 4.34 | 0.50 | 4.51 | 4.34 | 0.55 | 4.51 | 4.34 | 0.60 | 4.51 | 4.34 | 0.65 | 4.51 | 4.34 | 0.71 | 4.51 | 4.34 | 0.76 | 4.51 | 4.34 | 0.86 | 4.51 | 4.34 | 0.95 | 4.51 | 4.34 | 1.04 | 4.51 | 4.34 | 1.13 | 4.31 | 4.24 | 1.22 | 4.08 | 4.08 | 1.32 |
| 47.6 | 15 | | 5.24 | 4.02 | 0.48 | 5.24 | 4.02 | 0.53 | 5.24 | 4.02 | 0.58 | 5.24 | 4.02 | 0.63 | 5.24 | 4.02 | 0.68 | 5.24 | 4.02 | 0.72 | 5.24 | 4.02 | 0.77 | 5.24 | 4.02 | 0.86 | 5.24 | 4.02 | 0.95 | 5.00 | 3.91 | 1.05 | 4.77 | 3.80 | 1.14 | 4.54 | 3.69 | 1.23 | 4.31 | 3.58 | 1.32 |
| 54.3 | 16 | | 5.35 | 3.73 | 0.63 | 5.35 | 3.73 | 0.68 | 5.35 | 3.73 | 0.73 | 5.35 | 3.73 | 0.77 | 5.35 | 3.73 | 0.77 | 5.35 | 3.73 | 0.77 | 5.35 | 3.73 | 0.77 | 5.35 | 3.73 | 0.87 | 5.35 | 3.73 | 0.96 | 5.12 | 3.62 | 1.05 | 4.89 | 3.51 | 1.14 | 4.65 | 3.41 | 1.23 | 4.42 | 3.30 | 1.32 |
| 21.2 | 12 | 24 | 3.86 | 3.86 | 0.45 | 3.86 | 3.86 | 0.49 | 3.86 | 3.86 | 0.53 | 3.86 | 3.86 | 0.58 | 3.86 | 3.86 | 0.64 | 3.86 | 3.86 | 0.70 | 3.86 | 3.86 | 0.76 | 3.86 | 3.86 | 0.85 | 3.86 | 3.86 | 0.95 | 3.86 | 3.86 | 1.04 | 3.86 | 3.86 | 1.13 | 3.86 | 3.86 | 1.22 | 3.86 | 3.86 | 1.31 |
| 32.1 | 14 | | 5.12 | 4.83 | 0.47 | 5.12 | 4.83 | 0.51 | 5.12 | 4.83 | 0.56 | 5.12 | 4.83 | 0.61 | 5.12 | 4.83 | 0.66 | 5.12 | 4.83 | 0.72 | 5.12 | 4.83 | 0.77 | 5.12 | 4.83 | 0.86 | 5.12 | 4.83 | 0.95 | 4.89 | 4.71 | 1.04 | 4.66 | 4.60 | 1.13 | 4.42 | 4.42 | 1.23 | 4.19 | 4.19 | 1.32 |
| 43.8 | 16 | | 5.35 | 4.25 | 0.63 | 5.35 | 4.25 | 0.68 | 5.35 | 4.25 | 0.73 | 5.35 | 4.25 | 0.77 | 5.35 | 4.25 | 0.77 | 5.35 | 4.25 | 0.77 | 5.35 | 4.25 | 0.77 | 5.35 | 4.25 | 0.87 | 5.35 | 4.25 | 0.96 | 5.12 | 4.14 | 1.05 | 4.89 | 4.03 | 1.14 | 4.65 | 3.92 | 1.23 | 4.42 | 3.82 | 1.32 |
| 50 | 17 | | 5.47 | 3.95 | 0.78 | 5.47 | 3.95 | 0.78 | 5.47 | 3.95 | 0.78 | 5.47 | 3.95 | 0.78 | 5.47 | 3.95 | 0.78 | 5.47 | 3.95 | 0.78 | 5.47 | 3.95 | 0.78 | 5.47 | 3.95 | 0.87 | 5.47 | 3.95 | 0.96 | 5.24 | 3.85 | 1.05 | 5.00 | 3.74 | 1.14 | 4.77 | 3.64 | 1.23 | 4.54 | 3.54 | 1.33 |
| 21.5 | 14 | 27 | 5.12 | 5.12 | 0.47 | 5.12 | 5.12 | 0.51 | 5.12 | 5.12 | 0.56 | 5.12 | 5.12 | 0.61 | 5.12 | 5.12 | 0.66 | 5.12 | 5.12 | 0.72 | 5.12 | 5.12 | 0.77 | 5.12 | 5.12 | 0.86 | 5.12 | 5.12 | 0.95 | 4.89 | 4.89 | 1.04 | 4.66 | 4.66 | 1.13 | 4.42 | 4.42 | 1.23 | 4.19 | 4.19 | 1.32 |
| 26.3 | 15 | | 5.24 | 5.24 | 0.48 | 5.24 | 5.24 | 0.53 | 5.24 | 5.24 | 0.58 | 5.24 | 5.24 | 0.63 | 5.24 | 5.24 | 0.68 | 5.24 | 5.24 | 0.72 | 5.24 | 5.24 | 0.77 | 5.24 | 5.24 | 0.86 | 5.24 | 5.24 | 0.95 | 5.00 | 5.00 | 1.05 | 4.77 | 4.77 | 1.14 | 4.54 | 4.54 | 1.23 | 4.31 | 4.31 | 1.32 |
| 31.3 | 16 | | 5.35 | 5.02 | 0.63 | 5.35 | 5.02 | 0.68 | 5.35 | 5.02 | 0.72 | 5.35 | 5.02 | 0.77 | 5.35 | 5.02 | 0.77 | 5.35 | 5.02 | 0.77 | 5.35 | 5.02 | 0.77 | 5.35 | 5.02 | 0.87 | 5.35 | 5.02 | 0.96 | 5.12 | 4.91 | 1.05 | 4.89 | 4.80 | 1.14 | 4.65 | 4.65 | 1.23 | 4.42 | 4.42 | 1.32 |

4D151948

## RZAG50B / FHA60A9

| Indoor | | | Outdoor temperature [°C DB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | -20 | | | -15 | | | -10 | | | -5 | | | 0 | | | 5 | | | 10 | | | 15 | | | 20 | | | 25 | | | 30 | | | 35 | | | 40 | | |
| RH | EWB | EDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| % | °C | °C | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 41.8 | 11 | 18 | 4.03 | 4.03 | 0.32 | 4.03 | 4.03 | 0.35 | 4.03 | 4.03 | 0.39 | 4.03 | 4.03 | 0.43 | 4.03 | 4.03 | 0.47 | 4.03 | 4.03 | 0.51 | 4.03 | 4.03 | 0.61 | 4.03 | 4.03 | 0.71 | 4.03 | 4.03 | 0.82 | 4.03 | 4.03 | 0.93 | 4.03 | 4.03 | 1.04 | 4.03 | 4.03 | 1.15 | 3.85 | 3.85 | 1.25 |
| 57 | 13 | | 5.01 | 3.81 | 0.40 | 5.01 | 3.81 | 0.44 | 5.01 | 3.81 | 0.49 | 5.01 | 3.81 | 0.53 | 5.01 | 3.81 | 0.58 | 5.01 | 3.81 | 0.63 | 5.01 | 3.81 | 0.73 | 5.01 | 3.81 | 0.82 | 5.01 | 3.81 | 0.90 | 4.77 | 3.69 | 0.99 | 4.54 | 3.58 | 1.08 | 4.31 | 3.47 | 1.16 | 4.08 | 3.36 | 1.25 |
| 31.4 | 11 | 20 | 4.02 | 4.02 | 0.32 | 4.02 | 4.02 | 0.35 | 4.02 | 4.02 | 0.39 | 4.02 | 4.02 | 0.43 | 4.02 | 4.02 | 0.47 | 4.02 | 4.02 | 0.51 | 4.02 | 4.02 | 0.61 | 4.02 | 4.02 | 0.71 | 4.02 | 4.02 | 0.82 | 4.02 | 4.02 | 0.93 | 4.02 | 4.02 | 1.04 | 4.02 | 4.02 | 1.15 | 3.85 | 3.85 | 1.25 |
| 44.9 | 13 | | 5.01 | 4.44 | 0.40 | 5.01 | 4.44 | 0.44 | 5.01 | 4.44 | 0.49 | 5.01 | 4.44 | 0.53 | 5.01 | 4.44 | 0.58 | 5.01 | 4.44 | 0.63 | 5.01 | 4.44 | 0.73 | 5.01 | 4.44 | 0.82 | 5.01 | 4.44 | 0.90 | 4.77 | 4.33 | 0.99 | 4.54 | 4.21 | 1.08 | 4.31 | 4.10 | 1.16 | 4.08 | 3.99 | 1.25 |
| 52 | 14 | | 5.12 | 4.10 | 0.50 | 5.12 | 4.10 | 0.55 | 5.12 | 4.10 | 0.60 | 5.12 | 4.10 | 0.64 | 5.12 | 4.10 | 0.64 | 5.12 | 4.10 | 0.64 | 5.12 | 4.10 | 0.73 | 5.12 | 4.10 | 0.82 | 5.12 | 4.10 | 0.91 | 4.89 | 3.99 | 0.99 | 4.66 | 3.88 | 1.08 | 4.42 | 3.77 | 1.17 | 4.19 | 3.66 | 1.25 |
| 22.9 | 11 | 22 | 4.01 | 4.01 | 0.32 | 4.01 | 4.01 | 0.35 | 4.01 | 4.01 | 0.39 | 4.01 | 4.01 | 0.43 | 4.01 | 4.01 | 0.47 | 4.01 | 4.01 | 0.51 | 4.01 | 4.01 | 0.61 | 4.01 | 4.01 | 0.71 | 4.01 | 4.01 | 0.82 | 4.01 | 4.01 | 0.93 | 4.01 | 4.01 | 1.04 | 4.01 | 4.01 | 1.15 | 3.85 | 3.85 | 1.25 |
| 34.8 | 13 | | 5.01 | 5.01 | 0.40 | 5.01 | 5.01 | 0.44 | 5.01 | 5.01 | 0.48 | 5.01 | 5.01 | 0.53 | 5.01 | 5.01 | 0.58 | 5.01 | 5.01 | 0.63 | 5.01 | 5.01 | 0.73 | 5.01 | 5.01 | 0.82 | 5.01 | 5.01 | 0.90 | 4.77 | 4.77 | 0.99 | 4.54 | 4.54 | 1.08 | 4.31 | 4.31 | 1.16 | 4.08 | 4.08 | 1.25 |
| 47.6 | 15 | | 5.24 | 4.38 | 0.65 | 5.24 | 4.38 | 0.65 | 5.24 | 4.38 | 0.65 | 5.24 | 4.38 | 0.65 | 5.24 | 4.38 | 0.65 | 5.24 | 4.38 | 0.65 | 5.24 | 4.38 | 0.73 | 5.24 | 4.38 | 0.82 | 5.24 | 4.38 | 0.91 | 5.00 | 4.27 | 1.00 | 4.77 | 4.17 | 1.08 | 4.54 | 4.06 | 1.17 | 4.31 | 3.96 | 1.26 |
| 54.3 | 16 | | 5.35 | 4.03 | 0.74 | 5.35 | 4.03 | 0.74 | 5.35 | 4.03 | 0.74 | 5.35 | 4.03 | 0.74 | 5.35 | 4.03 | 0.74 | 5.35 | 4.03 | 0.74 | 5.35 | 4.03 | 0.74 | 5.35 | 4.03 | 0.82 | 5.35 | 4.03 | 0.91 | 5.12 | 3.92 | 1.00 | 4.89 | 3.82 | 1.08 | 4.65 | 3.72 | 1.17 | 4.42 | 3.62 | 1.26 |
| 21.2 | 12 | 24 | 4.76 | 4.76 | 0.36 | 4.76 | 4.76 | 0.40 | 4.76 | 4.76 | 0.44 | 4.76 | 4.76 | 0.48 | 4.76 | 4.76 | 0.52 | 4.76 | 4.76 | 0.57 | 4.76 | 4.76 | 0.67 | 4.76 | 4.76 | 0.78 | 4.76 | 4.76 | 0.89 | 4.66 | 4.66 | 0.99 | 4.43 | 4.43 | 1.07 | 4.19 | 4.19 | 1.16 | 3.96 | 3.96 | 1.25 |
| 32.1 | 14 | | 5.12 | 5.12 | 0.50 | 5.12 | 5.12 | 0.55 | 5.12 | 5.12 | 0.60 | 5.12 | 5.12 | 0.64 | 5.12 | 5.12 | 0.64 | 5.12 | 5.12 | 0.64 | 5.12 | 5.12 | 0.73 | 5.12 | 5.12 | 0.82 | 5.12 | 5.12 | 0.91 | 4.89 | 4.89 | 0.99 | 4.66 | 4.66 | 1.08 | 4.42 | 4.42 | 1.17 | 4.19 | 4.19 | 1.25 |
| 43.8 | 16 | | 5.35 | 4.66 | 0.74 | 5.35 | 4.66 | 0.74 | 5.35 | 4.66 | 0.74 | 5.35 | 4.66 | 0.74 | 5.35 | 4.66 | 0.74 | 5.35 | 4.66 | 0.74 | 5.35 | 4.66 | 0.74 | 5.35 | 4.66 | 0.82 | 5.35 | 4.66 | 0.91 | 5.12 | 4.56 | 1.00 | 4.89 | 4.46 | 1.08 | 4.65 | 4.35 | 1.17 | 4.42 | 4.25 | 1.26 |
| 50 | 17 | | 5.47 | 4.30 | 0.74 | 5.47 | 4.30 | 0.74 | 5.47 | 4.30 | 0.74 | 5.47 | 4.30 | 0.74 | 5.47 | 4.30 | 0.74 | 5.47 | 4.30 | 0.74 | 5.47 | 4.30 | 0.74 | 5.47 | 4.30 | 0.83 | 5.47 | 4.30 | 0.91 | 5.24 | 4.20 | 1.00 | 5.00 | 4.11 | 1.09 | 4.77 | 4.01 | 1.17 | 4.54 | 3.91 | 1.26 |
| 21.5 | 14 | 27 | 5.12 | 5.12 | 0.50 | 5.12 | 5.12 | 0.55 | 5.12 | 5.12 | 0.60 | 5.12 | 5.12 | 0.64 | 5.12 | 5.12 | 0.64 | 5.12 | 5.12 | 0.64 | 5.12 | 5.12 | 0.73 | 5.12 | 5.12 | 0.82 | 5.12 | 5.12 | 0.91 | 4.89 | 4.89 | 0.99 | 4.66 | 4.66 | 1.08 | 4.42 | 4.42 | 1.17 | 4.19 | 4.19 | 1.25 |
| 26.3 | 15 | | 5.24 | 5.24 | 0.65 | 5.24 | 5.24 | 0.65 | 5.24 | 5.24 | 0.65 | 5.24 | 5.24 | 0.65 | 5.24 | 5.24 | 0.65 | 5.24 | 5.24 | 0.65 | 5.24 | 5.24 | 0.73 | 5.24 | 5.24 | 0.82 | 5.24 | 5.24 | 0.91 | 5.00 | 5.00 | 1.00 | 4.77 | 4.77 | 1.08 | 4.54 | 4.54 | 1.17 | 4.31 | 4.31 | 1.26 |
| 31.3 | 16 | | 5.35 | 5.35 | 0.74 | 5.35 | 5.35 | 0.74 | 5.35 | 5.35 | 0.74 | 5.35 | 5.35 | 0.74 | 5.35 | 5.35 | 0.74 | 5.35 | 5.35 | 0.74 | 5.35 | 5.35 | 0.74 | 5.35 | 5.35 | 0.82 | 5.35 | 5.35 | 0.91 | 5.12 | 5.12 | 1.00 | 4.89 | 4.89 | 1.08 | 4.65 | 4.65 | 1.17 | 4.42 | 4.42 | 1.26 |

4D151948

## RZAG50B / FBA60A9

| Indoor | | | Outdoor temperature [°C DB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | -20 | | | -15 | | | -10 | | | -5 | | | 0 | | | 5 | | | 10 | | | 15 | | | 20 | | | 25 | | | 30 | | | 35 | | | 40 | | |
| RH | EWB | EDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| % | °C | °C | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 41.8 | 11 | 18 | 4.05 | 4.05 | 0.33 | 4.05 | 4.05 | 0.36 | 4.05 | 4.05 | 0.40 | 4.05 | 4.05 | 0.44 | 4.05 | 4.05 | 0.48 | 4.05 | 4.05 | 0.53 | 4.05 | 4.05 | 0.63 | 4.05 | 4.05 | 0.73 | 4.05 | 4.05 | 0.84 | 4.05 | 4.05 | 0.95 | 4.05 | 4.05 | 1.07 | 4.05 | 4.05 | 1.19 | 3.85 | 3.85 | 1.28 |
| 57 | 13 | | 5.01 | 3.81 | 0.41 | 5.01 | 3.81 | 0.46 | 5.01 | 3.81 | 0.50 | 5.01 | 3.81 | 0.55 | 5.01 | 3.81 | 0.60 | 5.01 | 3.81 | 0.65 | 5.01 | 3.81 | 0.75 | 5.01 | 3.81 | 0.84 | 5.01 | 3.81 | 0.93 | 4.77 | 3.70 | 1.02 | 4.54 | 3.59 | 1.11 | 4.31 | 3.47 | 1.20 | 4.08 | 3.36 | 1.29 |
| 31.4 | 11 | 20 | 4.03 | 4.03 | 0.33 | 4.03 | 4.03 | 0.36 | 4.03 | 4.03 | 0.40 | 4.03 | 4.03 | 0.44 | 4.03 | 4.03 | 0.48 | 4.03 | 4.03 | 0.53 | 4.03 | 4.03 | 0.62 | 4.03 | 4.03 | 0.73 | 4.03 | 4.03 | 0.84 | 4.03 | 4.03 | 0.95 | 4.03 | 4.03 | 1.07 | 4.03 | 4.03 | 1.19 | 3.85 | 3.85 | 1.28 |
| 44.9 | 13 | | 5.01 | 4.45 | 0.41 | 5.01 | 4.45 | 0.46 | 5.01 | 4.45 | 0.50 | 5.01 | 4.45 | 0.55 | 5.01 | 4.45 | 0.60 | 5.01 | 4.45 | 0.65 | 5.01 | 4.45 | 0.75 | 5.01 | 4.45 | 0.84 | 5.01 | 4.45 | 0.93 | 4.77 | 4.34 | 1.02 | 4.54 | 4.22 | 1.11 | 4.31 | 4.11 | 1.20 | 4.08 | 4.00 | 1.29 |
| 52 | 14 | | 5.12 | 4.10 | 0.52 | 5.12 | 4.10 | 0.57 | 5.12 | 4.10 | 0.62 | 5.12 | 4.10 | 0.66 | 5.12 | 4.10 | 0.66 | 5.12 | 4.10 | 0.66 | 5.12 | 4.10 | 0.75 | 5.12 | 4.10 | 0.84 | 5.12 | 4.10 | 0.93 | 4.89 | 3.99 | 1.02 | 4.66 | 3.88 | 1.11 | 4.42 | 3.77 | 1.20 | 4.19 | 3.67 | 1.29 |
| 22.9 | 11 | 22 | 4.02 | 4.02 | 0.33 | 4.02 | 4.02 | 0.36 | 4.02 | 4.02 | 0.40 | 4.02 | 4.02 | 0.44 | 4.02 | 4.02 | 0.48 | 4.02 | 4.02 | 0.52 | 4.02 | 4.02 | 0.62 | 4.02 | 4.02 | 0.73 | 4.02 | 4.02 | 0.84 | 4.02 | 4.02 | 0.95 | 4.02 | 4.02 | 1.07 | 4.02 | 4.02 | 1.19 | 3.85 | 3.85 | 1.28 |
| 34.8 | 13 | | 5.01 | 5.01 | 0.41 | 5.01 | 5.01 | 0.46 | 5.01 | 5.01 | 0.50 | 5.01 | 5.01 | 0.55 | 5.01 | 5.01 | 0.60 | 5.01 | 5.01 | 0.65 | 5.01 | 5.01 | 0.75 | 5.01 | 5.01 | 0.84 | 5.01 | 5.01 | 0.93 | 4.77 | 4.77 | 1.02 | 4.54 | 4.54 | 1.11 | 4.31 | 4.31 | 1.20 | 4.08 | 4.08 | 1.29 |
| 47.6 | 15 | | 5.24 | 4.39 | 0.67 | 5.24 | 4.39 | 0.67 | 5.24 | 4.39 | 0.67 | 5.24 | 4.39 | 0.67 | 5.24 | 4.39 | 0.67 | 5.24 | 4.39 | 0.67 | 5.24 | 4.39 | 0.76 | 5.24 | 4.39 | 0.85 | 5.24 | 4.39 | 0.94 | 5.00 | 4.28 | 1.03 | 4.77 | 4.17 | 1.12 | 4.54 | 4.07 | 1.21 | 4.31 | 3.97 | 1.30 |
| 54.3 | 16 | | 5.35 | 4.03 | 0.76 | 5.35 | 4.03 | 0.76 | 5.35 | 4.03 | 0.76 | 5.35 | 4.03 | 0.76 | 5.35 | 4.03 | 0.76 | 5.35 | 4.03 | 0.76 | 5.35 | 4.03 | 0.76 | 5.35 | 4.03 | 0.85 | 5.35 | 4.03 | 0.94 | 5.12 | 3.93 | 1.03 | 4.89 | 3.83 | 1.12 | 4.65 | 3.73 | 1.21 | 4.42 | 3.63 | 1.30 |
| 21.2 | 12 | 24 | 4.78 | 4.78 | 0.37 | 4.78 | 4.78 | 0.41 | 4.78 | 4.78 | 0.45 | 4.78 | 4.78 | 0.49 | 4.78 | 4.78 | 0.54 | 4.78 | 4.78 | 0.59 | 4.78 | 4.78 | 0.69 | 4.78 | 4.78 | 0.80 | 4.78 | 4.78 | 0.92 | 4.66 | 4.66 | 1.02 | 4.43 | 4.43 | 1.11 | 4.19 | 4.19 | 1.20 | 3.96 | 3.96 | 1.29 |
| 32.1 | 14 | | 5.12 | 5.12 | 0.52 | 5.12 | 5.12 | 0.57 | 5.12 | 5.12 | 0.62 | 5.12 | 5.12 | 0.66 | 5.12 | 5.12 | 0.66 | 5.12 | 5.12 | 0.66 | 5.12 | 5.12 | 0.75 | 5.12 | 5.12 | 0.84 | 5.12 | 5.12 | 0.93 | 4.89 | 4.89 | 1.02 | 4.66 | 4.66 | 1.11 | 4.42 | 4.42 | 1.20 | 4.19 | 4.19 | 1.29 |
| 43.8 | 16 | | 5.35 | 4.67 | 0.76 | 5.35 | 4.67 | 0.76 | 5.35 | 4.67 | 0.76 | 5.35 | 4.67 | 0.76 | 5.35 | 4.67 | 0.76 | 5.35 | 4.67 | 0.76 | 5.35 | 4.67 | 0.76 | 5.35 | 4.67 | 0.85 | 5.35 | 4.67 | 0.94 | 5.12 | 4.57 | 1.03 | 4.89 | 4.46 | 1.12 | 4.65 | 4.36 | 1.21 | 4.42 | 4.26 | 1.30 |
| 50 | 17 | | 5.47 | 4.31 | 0.76 | 5.47 | 4.31 | 0.76 | 5.47 | 4.31 | 0.76 | 5.47 | 4.31 | 0.76 | 5.47 | 4.31 | 0.76 | 5.47 | 4.31 | 0.76 | 5.47 | 4.31 | 0.76 | 5.47 | 4.31 | 0.85 | 5.47 | 4.31 | 0.94 | 5.24 | 4.21 | 1.03 | 5.00 | 4.11 | 1.12 | 4.77 | 4.02 | 1.21 | 4.54 | 3.92 | 1.30 |
| 21.5 | 14 | 27 | 5.12 | 5.12 | 0.52 | 5.12 | 5.12 | 0.57 | 5.12 | 5.12 | 0.61 | 5.12 | 5.12 | 0.66 | 5.12 | 5.12 | 0.66 | 5.12 | 5.12 | 0.66 | 5.12 | 5.12 | 0.75 | 5.12 | 5.12 | 0.84 | 5.12 | 5.12 | 0.93 | 4.89 | 4.89 | 1.02 | 4.66 | 4.66 | 1.11 | 4.42 | 4.42 | 1.20 | 4.19 | 4.19 | 1.29 |
| 26.3 | 15 | | 5.24 | 5.24 | 0.67 | 5.24 | 5.24 | 0.67 | 5.24 | 5.24 | 0.67 | 5.24 | 5.24 | 0.67 | 5.24 | 5.24 | 0.67 | 5.24 | 5.24 | 0.67 | 5.24 | 5.24 | 0.76 | 5.24 | 5.24 | 0.85 | 5.24 | 5.24 | 0.94 | 5.00 | 5.00 | 1.03 | 4.77 | 4.77 | 1.12 | 4.54 | 4.54 | 1.21 | 4.31 | 4.31 | 1.30 |
| 31.3 | 16 | | 5.35 | 5.35 | 0.76 | 5.35 | 5.35 | 0.76 | 5.35 | 5.35 | 0.76 | 5.35 | 5.35 | 0.76 | 5.35 | 5.35 | 0.76 | 5.35 | 5.35 | 0.76 | 5.35 | 5.35 | 0.76 | 5.35 | 5.35 | 0.85 | 5.35 | 5.35 | 0.94 | 5.12 | 5.12 | 1.03 | 4.89 | 4.89 | 1.12 | 4.65 | 4.65 | 1.21 | 4.42 | 4.42 | 1.30 |

4D151948

Symbols

RH: Relative humidity [%]

EWB: Entering wet-bulb temperature (°C WB)

EDB: Entering dry-bulb temperature (°C DB)

TC: Total capacity [kW]

SHC: Sensible heat capacity [kW]

PI: Power input [kW]

# Boosted capacity indoor unit with 6kW outdoor system

## RZAG60B / FTXM71A

| Indoor | | | Outdoor temperature [°C DB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | -20 | | | -15 | | | -10 | | | -5 | | | 0 | | | 5 | | | 10 | | | 15 | | | 20 | | | 25 | | | 30 | | | 35 | | | 40 | | |
| RH | EWB | EDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| % | °C | °C | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 41.8 | 11 | 18 | 3.91 | 3.91 | 0.46 | 3.91 | 3.91 | 0.50 | 3.91 | 3.91 | 0.55 | 3.91 | 3.91 | 0.60 | 3.91 | 3.91 | 0.65 | 3.91 | 3.91 | 0.71 | 3.91 | 3.91 | 0.78 | 3.91 | 3.91 | 0.92 | 3.91 | 3.91 | 1.07 | 3.91 | 3.91 | 1.22 | 3.91 | 3.91 | 1.39 | 3.91 | 3.91 | 1.56 | 3.91 | 3.91 | 1.72 |
| 57 | 13 | | 5.43 | 3.98 | 0.57 | 5.43 | 3.98 | 0.62 | 5.43 | 3.98 | 0.68 | 5.43 | 3.98 | 0.74 | 5.43 | 3.98 | 0.80 | 5.43 | 3.98 | 0.87 | 5.43 | 3.98 | 0.94 | 5.43 | 3.98 | 1.09 | 5.43 | 3.98 | 1.25 | 5.43 | 3.98 | 1.40 | 5.43 | 3.98 | 1.56 | 5.17 | 3.85 | 1.69 | 4.89 | 3.71 | 1.81 |
| 31.4 | 11 | 20 | 3.90 | 3.90 | 0.46 | 3.90 | 3.90 | 0.50 | 3.90 | 3.90 | 0.55 | 3.90 | 3.90 | 0.60 | 3.90 | 3.90 | 0.65 | 3.90 | 3.90 | 0.71 | 3.90 | 3.90 | 0.78 | 3.90 | 3.90 | 0.92 | 3.90 | 3.90 | 1.07 | 3.90 | 3.90 | 1.22 | 3.90 | 3.90 | 1.39 | 3.90 | 3.90 | 1.55 | 3.90 | 3.90 | 1.72 |
| 44.9 | 13 | | 5.41 | 4.59 | 0.57 | 5.41 | 4.59 | 0.62 | 5.41 | 4.59 | 0.68 | 5.41 | 4.59 | 0.74 | 5.41 | 4.59 | 0.80 | 5.41 | 4.59 | 0.87 | 5.41 | 4.59 | 0.94 | 5.41 | 4.59 | 1.09 | 5.41 | 4.59 | 1.24 | 5.41 | 4.59 | 1.40 | 5.41 | 4.59 | 1.56 | 5.17 | 4.47 | 1.69 | 4.89 | 4.33 | 1.81 |
| 52 | 14 | | 6.15 | 4.55 | 0.62 | 6.15 | 4.55 | 0.68 | 6.15 | 4.55 | 0.74 | 6.15 | 4.55 | 0.80 | 6.15 | 4.55 | 0.87 | 6.15 | 4.55 | 0.94 | 6.15 | 4.55 | 1.01 | 6.15 | 4.55 | 1.16 | 6.15 | 4.55 | 1.31 | 5.87 | 4.41 | 1.44 | 5.59 | 4.28 | 1.56 | 5.31 | 4.14 | 1.69 | 5.03 | 4.00 | 1.82 |
| 22.9 | 11 | 22 | 3.89 | 3.89 | 0.46 | 3.89 | 3.89 | 0.50 | 3.89 | 3.89 | 0.55 | 3.89 | 3.89 | 0.59 | 3.89 | 3.89 | 0.65 | 3.89 | 3.89 | 0.71 | 3.89 | 3.89 | 0.77 | 3.89 | 3.89 | 0.91 | 3.89 | 3.89 | 1.06 | 3.89 | 3.89 | 1.22 | 3.89 | 3.89 | 1.39 | 3.89 | 3.89 | 1.55 | 3.89 | 3.89 | 1.72 |
| 34.8 | 13 | | 5.40 | 5.20 | 0.57 | 5.40 | 5.20 | 0.62 | 5.40 | 5.20 | 0.68 | 5.40 | 5.20 | 0.74 | 5.40 | 5.20 | 0.80 | 5.40 | 5.20 | 0.87 | 5.40 | 5.20 | 0.94 | 5.40 | 5.20 | 1.09 | 5.40 | 5.20 | 1.24 | 5.40 | 5.20 | 1.40 | 5.40 | 5.20 | 1.56 | 5.17 | 5.08 | 1.69 | 4.89 | 4.89 | 1.81 |
| 47.6 | 15 | | 6.29 | 4.82 | 0.66 | 6.29 | 4.82 | 0.72 | 6.29 | 4.82 | 0.78 | 6.29 | 4.82 | 0.85 | 6.29 | 4.82 | 0.92 | 6.29 | 4.82 | 1.00 | 6.29 | 4.82 | 1.06 | 6.29 | 4.82 | 1.19 | 6.29 | 4.82 | 1.32 | 6.01 | 4.69 | 1.44 | 5.73 | 4.55 | 1.57 | 5.45 | 4.42 | 1.69 | 5.17 | 4.29 | 1.82 |
| 54.3 | 16 | | 6.42 | 4.47 | 0.86 | 6.42 | 4.47 | 0.93 | 6.42 | 4.47 | 1.00 | 6.42 | 4.47 | 1.07 | 6.42 | 4.47 | 1.07 | 6.42 | 4.47 | 1.07 | 6.42 | 4.47 | 1.07 | 6.42 | 4.47 | 1.19 | 6.42 | 4.47 | 1.32 | 6.14 | 4.34 | 1.45 | 5.86 | 4.21 | 1.57 | 5.59 | 4.08 | 1.70 | 5.31 | 3.96 | 1.83 |
| 21.2 | 12 | 24 | 4.62 | 4.62 | 0.52 | 4.62 | 4.62 | 0.56 | 4.62 | 4.62 | 0.61 | 4.62 | 4.62 | 0.67 | 4.62 | 4.62 | 0.73 | 4.62 | 4.62 | 0.79 | 4.62 | 4.62 | 0.86 | 4.62 | 4.62 | 1.00 | 4.62 | 4.62 | 1.16 | 4.62 | 4.62 | 1.32 | 4.62 | 4.62 | 1.48 | 4.62 | 4.62 | 1.64 | 4.62 | 4.62 | 1.80 |
| 32.1 | 14 | | 6.15 | 5.79 | 0.62 | 6.15 | 5.79 | 0.68 | 6.15 | 5.79 | 0.73 | 6.15 | 5.79 | 0.80 | 6.15 | 5.79 | 0.87 | 6.15 | 5.79 | 0.94 | 6.15 | 5.79 | 1.01 | 6.15 | 5.79 | 1.16 | 6.15 | 5.79 | 1.31 | 5.87 | 5.64 | 1.44 | 5.59 | 5.51 | 1.56 | 5.31 | 5.31 | 1.69 | 5.03 | 5.03 | 1.82 |
| 43.8 | 16 | | 6.42 | 5.09 | 0.86 | 6.42 | 5.09 | 0.93 | 6.42 | 5.09 | 1.00 | 6.42 | 5.09 | 1.07 | 6.42 | 5.09 | 1.07 | 6.42 | 5.09 | 1.07 | 6.42 | 5.09 | 1.07 | 6.42 | 5.09 | 1.19 | 6.42 | 5.09 | 1.32 | 6.14 | 4.96 | 1.45 | 5.86 | 4.83 | 1.57 | 5.59 | 4.70 | 1.70 | 5.31 | 4.57 | 1.83 |
| 50 | 17 | | 6.56 | 4.74 | 1.01 | 6.56 | 4.74 | 1.07 | 6.56 | 4.74 | 1.07 | 6.56 | 4.74 | 1.07 | 6.56 | 4.74 | 1.07 | 6.56 | 4.74 | 1.07 | 6.56 | 4.74 | 1.07 | 6.56 | 4.74 | 1.20 | 6.56 | 4.74 | 1.32 | 6.28 | 4.61 | 1.45 | 6.00 | 4.48 | 1.58 | 5.72 | 4.36 | 1.70 | 5.44 | 4.24 | 1.83 |
| 21.5 | 14 | 27 | 6.15 | 6.15 | 0.62 | 6.15 | 6.15 | 0.67 | 6.15 | 6.15 | 0.73 | 6.15 | 6.15 | 0.80 | 6.15 | 6.15 | 0.86 | 6.15 | 6.15 | 0.93 | 6.15 | 6.15 | 1.01 | 6.15 | 6.15 | 1.16 | 6.15 | 6.15 | 1.31 | 5.87 | 5.87 | 1.44 | 5.59 | 5.59 | 1.56 | 5.31 | 5.31 | 1.69 | 5.03 | 5.03 | 1.82 |
| 26.3 | 15 | | 6.29 | 6.29 | 0.66 | 6.29 | 6.29 | 0.72 | 6.29 | 6.29 | 0.78 | 6.29 | 6.29 | 0.85 | 6.29 | 6.29 | 0.92 | 6.29 | 6.29 | 0.99 | 6.29 | 6.29 | 1.06 | 6.29 | 6.29 | 1.19 | 6.29 | 6.29 | 1.32 | 6.01 | 6.01 | 1.44 | 5.73 | 5.73 | 1.57 | 5.45 | 5.45 | 1.69 | 5.17 | 5.17 | 1.82 |
| 31.3 | 16 | | 6.42 | 6.01 | 0.86 | 6.42 | 6.01 | 0.93 | 6.42 | 6.01 | 1.00 | 6.42 | 6.01 | 1.07 | 6.42 | 6.01 | 1.07 | 6.42 | 6.01 | 1.07 | 6.42 | 6.01 | 1.07 | 6.42 | 6.01 | 1.19 | 6.42 | 6.01 | 1.32 | 6.14 | 5.88 | 1.45 | 5.86 | 5.75 | 1.57 | 5.59 | 5.59 | 1.70 | 5.31 | 5.31 | 1.83 |

4D151949

## RZAG60B / FHA71A9

| Indoor | | | Outdoor temperature [°C DB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | -20 | | | -15 | | | -10 | | | -5 | | | 0 | | | 5 | | | 10 | | | 15 | | | 20 | | | 25 | | | 30 | | | 35 | | | 40 | | |
| RH | EWB | EDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| % | °C | °C | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 41.8 | 11 | 18 | 4.61 | 4.61 | 0.41 | 4.61 | 4.61 | 0.45 | 4.61 | 4.61 | 0.50 | 4.61 | 4.61 | 0.55 | 4.61 | 4.61 | 0.61 | 4.61 | 4.61 | 0.67 | 4.61 | 4.61 | 0.80 | 4.61 | 4.61 | 0.93 | 4.61 | 4.61 | 1.05 | 4.61 | 4.61 | 1.15 | 4.61 | 4.61 | 1.25 | 4.61 | 4.61 | 1.35 | 4.61 | 4.61 | 1.46 |
| 57 | 13 | | 6.01 | 4.50 | 0.47 | 6.01 | 4.50 | 0.51 | 6.01 | 4.50 | 0.57 | 6.01 | 4.50 | 0.62 | 6.01 | 4.50 | 0.68 | 6.01 | 4.50 | 0.74 | 6.01 | 4.50 | 0.85 | 6.01 | 4.50 | 0.95 | 6.01 | 4.50 | 1.05 | 5.73 | 4.36 | 1.16 | 5.45 | 4.22 | 1.26 | 5.17 | 4.08 | 1.36 | 4.89 | 3.95 | 1.46 |
| 31.4 | 11 | 20 | 4.59 | 4.59 | 0.41 | 4.59 | 4.59 | 0.45 | 4.59 | 4.59 | 0.50 | 4.59 | 4.59 | 0.55 | 4.59 | 4.59 | 0.61 | 4.59 | 4.59 | 0.67 | 4.59 | 4.59 | 0.80 | 4.59 | 4.59 | 0.93 | 4.59 | 4.59 | 1.05 | 4.59 | 4.59 | 1.15 | 4.59 | 4.59 | 1.25 | 4.59 | 4.59 | 1.35 | 4.59 | 4.59 | 1.46 |
| 44.9 | 13 | | 6.01 | 5.22 | 0.47 | 6.01 | 5.22 | 0.51 | 6.01 | 5.22 | 0.57 | 6.01 | 5.22 | 0.62 | 6.01 | 5.22 | 0.68 | 6.01 | 5.22 | 0.74 | 6.01 | 5.22 | 0.85 | 6.01 | 5.22 | 0.95 | 6.01 | 5.22 | 1.05 | 5.73 | 5.08 | 1.16 | 5.45 | 4.94 | 1.26 | 5.17 | 4.81 | 1.36 | 4.89 | 4.67 | 1.46 |
| 52 | 14 | | 6.15 | 4.82 | 0.54 | 6.15 | 4.82 | 0.59 | 6.15 | 4.82 | 0.64 | 6.15 | 4.82 | 0.70 | 6.15 | 4.82 | 0.75 | 6.15 | 4.82 | 0.75 | 6.15 | 4.82 | 0.85 | 6.15 | 4.82 | 0.96 | 6.15 | 4.82 | 1.06 | 5.87 | 4.69 | 1.16 | 5.59 | 4.56 | 1.26 | 5.31 | 4.42 | 1.36 | 5.03 | 4.29 | 1.47 |
| 22.9 | 11 | 22 | 4.58 | 4.58 | 0.41 | 4.58 | 4.58 | 0.45 | 4.58 | 4.58 | 0.50 | 4.58 | 4.58 | 0.55 | 4.58 | 4.58 | 0.61 | 4.58 | 4.58 | 0.67 | 4.58 | 4.58 | 0.80 | 4.58 | 4.58 | 0.93 | 4.58 | 4.58 | 1.05 | 4.58 | 4.58 | 1.15 | 4.58 | 4.58 | 1.25 | 4.58 | 4.58 | 1.35 | 4.58 | 4.58 | 1.46 |
| 34.8 | 13 | | 6.01 | 5.94 | 0.47 | 6.01 | 5.94 | 0.51 | 6.01 | 5.94 | 0.57 | 6.01 | 5.94 | 0.62 | 6.01 | 5.94 | 0.68 | 6.01 | 5.94 | 0.74 | 6.01 | 5.94 | 0.85 | 6.01 | 5.94 | 0.95 | 6.01 | 5.94 | 1.05 | 5.73 | 5.73 | 1.16 | 5.45 | 5.45 | 1.26 | 5.17 | 5.17 | 1.36 | 4.89 | 4.89 | 1.46 |
| 47.6 | 15 | | 6.29 | 5.15 | 0.70 | 6.29 | 5.15 | 0.76 | 6.29 | 5.15 | 0.76 | 6.29 | 5.15 | 0.76 | 6.29 | 5.15 | 0.76 | 6.29 | 5.15 | 0.76 | 6.29 | 5.15 | 0.86 | 6.29 | 5.15 | 0.96 | 6.29 | 5.15 | 1.06 | 6.01 | 5.02 | 1.16 | 5.73 | 4.89 | 1.26 | 5.45 | 4.76 | 1.37 | 5.17 | 4.63 | 1.47 |
| 54.3 | 16 | | 6.42 | 4.74 | 0.86 | 6.42 | 4.74 | 0.86 | 6.42 | 4.74 | 0.86 | 6.42 | 4.74 | 0.86 | 6.42 | 4.74 | 0.86 | 6.42 | 4.74 | 0.86 | 6.42 | 4.74 | 0.86 | 6.42 | 4.74 | 0.96 | 6.42 | 4.74 | 1.06 | 6.14 | 4.62 | 1.17 | 5.86 | 4.49 | 1.27 | 5.59 | 4.37 | 1.37 | 5.31 | 4.25 | 1.47 |
| 21.2 | 12 | 24 | 5.44 | 5.44 | 0.44 | 5.44 | 5.44 | 0.48 | 5.44 | 5.44 | 0.53 | 5.44 | 5.44 | 0.59 | 5.44 | 5.44 | 0.64 | 5.44 | 5.44 | 0.70 | 5.44 | 5.44 | 0.83 | 5.44 | 5.44 | 0.94 | 5.44 | 5.44 | 1.05 | 5.44 | 5.44 | 1.15 | 5.31 | 5.31 | 1.26 | 5.03 | 5.03 | 1.36 | 4.75 | 4.75 | 1.46 |
| 32.1 | 14 | | 6.15 | 6.15 | 0.54 | 6.15 | 6.15 | 0.59 | 6.15 | 6.15 | 0.64 | 6.15 | 6.15 | 0.70 | 6.15 | 6.15 | 0.75 | 6.15 | 6.15 | 0.75 | 6.15 | 6.15 | 0.85 | 6.15 | 6.15 | 0.96 | 6.15 | 6.15 | 1.06 | 5.87 | 5.87 | 1.16 | 5.59 | 5.59 | 1.26 | 5.31 | 5.31 | 1.36 | 5.03 | 5.03 | 1.47 |
| 43.8 | 16 | | 6.42 | 5.47 | 0.86 | 6.42 | 5.47 | 0.86 | 6.42 | 5.47 | 0.86 | 6.42 | 5.47 | 0.86 | 6.42 | 5.47 | 0.86 | 6.42 | 5.47 | 0.86 | 6.42 | 5.47 | 0.86 | 6.42 | 5.47 | 0.96 | 6.42 | 5.47 | 1.06 | 6.14 | 5.34 | 1.17 | 5.86 | 5.22 | 1.27 | 5.59 | 5.09 | 1.37 | 5.31 | 4.97 | 1.47 |
| 50 | 17 | | 6.56 | 5.06 | 0.86 | 6.56 | 5.06 | 0.86 | 6.56 | 5.06 | 0.86 | 6.56 | 5.06 | 0.86 | 6.56 | 5.06 | 0.86 | 6.56 | 5.06 | 0.86 | 6.56 | 5.06 | 0.86 | 6.56 | 5.06 | 0.97 | 6.56 | 5.06 | 1.07 | 6.28 | 4.93 | 1.17 | 6.00 | 4.81 | 1.27 | 5.72 | 4.70 | 1.37 | 5.44 | 4.58 | 1.47 |
| 21.5 | 14 | 27 | 6.15 | 6.15 | 0.48 | 6.15 | 6.15 | 0.54 | 6.15 | 6.15 | 0.59 | 6.15 | 6.15 | 0.65 | 6.15 | 6.15 | 0.70 | 6.15 | 6.15 | 0.75 | 6.15 | 6.15 | 0.85 | 6.15 | 6.15 | 0.96 | 6.15 | 6.15 | 1.06 | 5.87 | 5.87 | 1.16 | 5.59 | 5.59 | 1.26 | 5.31 | 5.31 | 1.36 | 5.03 | 5.03 | 1.47 |
| 26.3 | 15 | | 6.29 | 6.29 | 0.65 | 6.29 | 6.29 | 0.70 | 6.29 | 6.29 | 0.76 | 6.29 | 6.29 | 0.76 | 6.29 | 6.29 | 0.76 | 6.29 | 6.29 | 0.76 | 6.29 | 6.29 | 0.86 | 6.29 | 6.29 | 0.96 | 6.29 | 6.29 | 1.06 | 6.01 | 6.01 | 1.16 | 5.73 | 5.73 | 1.26 | 5.45 | 5.45 | 1.37 | 5.17 | 5.17 | 1.47 |
| 31.3 | 16 | | 6.42 | 6.42 | 0.86 | 6.42 | 6.42 | 0.86 | 6.42 | 6.42 | 0.86 | 6.42 | 6.42 | 0.86 | 6.42 | 6.42 | 0.86 | 6.42 | 6.42 | 0.86 | 6.42 | 6.42 | 0.86 | 6.42 | 6.42 | 0.96 | 6.42 | 6.42 | 1.06 | 6.14 | 6.14 | 1.17 | 5.86 | 5.86 | 1.27 | 5.59 | 5.59 | 1.37 | 5.31 | 5.31 | 1.47 |

4D151949

## RZAG60B / FBA71A9

| Indoor | | | Outdoor temperature [°C DB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | -20 | | | -15 | | | -10 | | | -5 | | | 0 | | | 5 | | | 10 | | | 15 | | | 20 | | | 25 | | | 30 | | | 35 | | | 40 | | |
| RH | EWB | EDB | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| % | °C | °C | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 41.8 | 11 | 18 | 4.05 | 4.05 | 0.39 | 4.05 | 4.05 | 0.42 | 4.05 | 4.05 | 0.47 | 4.05 | 4.05 | 0.52 | 4.05 | 4.05 | 0.57 | 4.05 | 4.05 | 0.64 | 4.05 | 4.05 | 0.77 | 4.05 | 4.05 | 0.92 | 4.05 | 4.05 | 1.06 | 4.05 | 4.05 | 1.16 | 4.05 | 4.05 | 1.27 | 4.05 | 4.05 | 1.37 | 4.05 | 4.05 | 1.47 |
| 57 | 13 | | 5.61 | 4.12 | 0.45 | 5.61 | 4.12 | 0.49 | 5.61 | 4.12 | 0.54 | 5.61 | 4.12 | 0.60 | 5.61 | 4.12 | 0.65 | 5.61 | 4.12 | 0.71 | 5.61 | 4.12 | 0.83 | 5.61 | 4.12 | 0.95 | 5.61 | 4.12 | 1.07 | 5.61 | 4.12 | 1.17 | 5.45 | 4.03 | 1.27 | 5.17 | 3.89 | 1.37 | 4.89 | 3.76 | 1.48 |
| 31.4 | 11 | 20 | 4.03 | 4.03 | 0.39 | 4.03 | 4.03 | 0.42 | 4.03 | 4.03 | 0.47 | 4.03 | 4.03 | 0.52 | 4.03 | 4.03 | 0.57 | 4.03 | 4.03 | 0.64 | 4.03 | 4.03 | 0.77 | 4.03 | 4.03 | 0.92 | 4.03 | 4.03 | 1.06 | 4.03 | 4.03 | 1.16 | 4.03 | 4.03 | 1.27 | 4.03 | 4.03 | 1.37 | 4.03 | 4.03 | 1.47 |
| 44.9 | 13 | | 5.60 | 4.75 | 0.44 | 5.60 | 4.75 | 0.49 | 5.60 | 4.75 | 0.54 | 5.60 | 4.75 | 0.59 | 5.60 | 4.75 | 0.65 | 5.60 | 4.75 | 0.71 | 5.60 | 4.75 | 0.83 | 5.60 | 4.75 | 0.95 | 5.60 | 4.75 | 1.07 | 5.60 | 4.75 | 1.17 | 5.45 | 4.67 | 1.27 | 5.17 | 4.53 | 1.37 | 4.89 | 4.39 | 1.48 |
| 52 | 14 | | 6.15 | 4.60 | 0.47 | 6.15 | 4.60 | 0.52 | 6.15 | 4.60 | 0.57 | 6.15 | 4.60 | 0.63 | 6.15 | 4.60 | 0.68 | 6.15 | 4.60 | 0.74 | 6.15 | 4.60 | 0.86 | 6.15 | 4.60 | 0.97 | 6.15 | 4.60 | 1.07 | 5.87 | 4.47 | 1.17 | 5.59 | 4.33 | 1.27 | 5.31 | 4.19 | 1.38 | 5.03 | 4.06 | 1.48 |
| 22.9 | 11 | 22 | 4.02 | 4.02 | 0.38 | 4.02 | 4.02 | 0.42 | 4.02 | 4.02 | 0.47 | 4.02 | 4.02 | 0.52 | 4.02 | 4.02 | 0.57 | 4.02 | 4.02 | 0.64 | 4.02 | 4.02 | 0.77 | 4.02 | 4.02 | 0.92 | 4.02 | 4.02 | 1.06 | 4.02 | 4.02 | 1.16 | 4.02 | 4.02 | 1.27 | 4.02 | 4.02 | 1.37 | 4.02 | 4.02 | 1.47 |
| 34.8 | 13 | | 5.59 | 5.38 | 0.44 | 5.59 | 5.38 | 0.49 | 5.59 | 5.38 | 0.54 | 5.59 | 5.38 | 0.59 | 5.59 | 5.38 | 0.65 | 5.59 | 5.38 | 0.71 | 5.59 | 5.38 | 0.83 | 5.59 | 5.38 | 0.95 | 5.59 | 5.38 | 1.07 | 5.59 | 5.38 | 1.17 | 5.45 | 5.31 | 1.27 | 5.17 | 5.17 | 1.37 | 4.89 | 4.89 | 1.48 |
| 47.6 | 15 | | 6.29 | 4.89 | 0.49 | 6.29 | 4.89 | 0.54 | 6.29 | 4.89 | 0.60 | 6.29 | 4.89 | 0.65 | 6.29 | 4.89 | 0.71 | 6.29 | 4.89 | 0.76 | 6.29 | 4.89 | 0.87 | 6.29 | 4.89 | 0.97 | 6.29 | 4.89 | 1.07 | 6.01 | 4.75 | 1.17 | 5.73 | 4.62 | 1.28 | 5.45 | 4.49 | 1.38 | 5.17 | 4.36 | 1.48 |
| 54.3 | 16 | | 6.42 | 4.52 | 0.66 | 6.42 | 4.52 | 0.71 | 6.42 | 4.52 | 0.77 | 6.42 | 4.52 | 0.77 | 6.42 | 4.52 | 0.77 | 6.42 | 4.52 | 0.77 | 6.42 | 4.52 | 0.87 | 6.42 | 4.52 | 0.97 | 6.42 | 4.52 | 1.07 | 6.14 | 4.39 | 1.18 | 5.86 | 4.27 | 1.28 | 5.59 | 4.14 | 1.38 | 5.31 | 4.01 | 1.49 |
| 21.2 | 12 | 24 | 4.78 | 4.78 | 0.42 | 4.78 | 4.78 | 0.46 | 4.78 | 4.78 | 0.50 | 4.78 | 4.78 | 0.56 | 4.78 | 4.78 | 0.61 | 4.78 | 4.78 | 0.68 | 4.78 | 4.78 | 0.81 | 4.78 | 4.78 | 0.94 | 4.78 | 4.78 | 1.06 | 4.78 | 4.78 | 1.17 | 4.78 | 4.78 | 1.27 | 4.78 | 4.78 | 1.37 | 4.75 | 4.75 | 1.47 |
| 32.1 | 14 | | 6.15 | 5.88 | 0.47 | 6.15 | 5.88 | 0.52 | 6.15 | 5.88 | 0.57 | 6.15 | 5.88 | 0.63 | 6.15 | 5.88 | 0.68 | 6.15 | 5.88 | 0.74 | 6.15 | 5.88 | 0.86 | 6.15 | 5.88 | 0.97 | 6.15 | 5.88 | 1.07 | 5.87 | 5.74 | 1.17 | 5.59 | 5.59 | 1.27 | 5.31 | 5.31 | 1.38 | 5.03 | 5.03 | 1.48 |
| 43.8 | 16 | | 6.42 | 5.16 | 0.66 | 6.42 | 5.16 | 0.71 | 6.42 | 5.16 | 0.77 | 6.42 | 5.16 | 0.77 | 6.42 | 5.16 | 0.77 | 6.42 | 5.16 | 0.77 | 6.42 | 5.16 | 0.87 | 6.42 | 5.16 | 0.97 | 6.42 | 5.16 | 1.07 | 6.14 | 5.03 | 1.18 | 5.86 | 4.90 | 1.28 | 5.59 | 4.78 | 1.38 | 5.31 | 4.65 | 1.49 |
| 50 | 17 | | 6.56 | 4.80 | 0.87 | 6.56 | 4.80 | 0.87 | 6.56 | 4.80 | 0.87 | 6.56 | 4.80 | 0.87 | 6.56 | 4.80 | 0.87 | 6.56 | 4.80 | 0.87 | 6.56 | 4.80 | 0.87 | 6.56 | 4.80 | 0.97 | 6.56 | 4.80 | 1.08 | 6.28 | 4.67 | 1.18 | 6.00 | 4.55 | 1.28 | 5.72 | 4.42 | 1.39 | 5.44 | 4.30 | 1.49 |
| 21.5 | 14 | 27 | 6.15 | 6.15 | 0.47 | 6.15 | 6.15 | 0.52 | 6.15 | 6.15 | 0.57 | 6.15 | 6.15 | 0.62 | 6.15 | 6.15 | 0.68 | 6.15 | 6.15 | 0.74 | 6.15 | 6.15 | 0.85 | 6.15 | 6.15 | 0.97 | 6.15 | 6.15 | 1.07 | 5.87 | 5.87 | 1.17 | 5.59 | 5.59 | 1.27 | 5.31 | 5.31 | 1.38 | 5.03 | 5.03 | 1.48 |
| 26.3 | 15 | | 6.29 | 6.29 | 0.49 | 6.29 | 6.29 | 0.54 | 6.29 | 6.29 | 0.60 | 6.29 | 6.29 | 0.65 | 6.29 | 6.29 | 0.71 | 6.29 | 6.29 | 0.76 | 6.29 | 6.29 | 0.87 | 6.29 | 6.29 | 0.97 | 6.29 | 6.29 | 1.07 | 6.01 | 6.01 | 1.17 | 5.73 | 5.73 | 1.28 | 5.45 | 5.45 | 1.38 | 5.17 | 5.17 | 1.48 |
| 31.3 | 16 | | 6.42 | 6.12 | 0.66 | 6.42 | 6.12 | 0.71 | 6.42 | 6.12 | 0.77 | 6.42 | 6.12 | 0.77 | 6.42 | 6.12 | 0.77 | 6.42 | 6.12 | 0.77 | 6.42 | 6.12 | 0.87 | 6.42 | 6.12 | 0.97 | 6.42 | 6.12 | 1.07 | 6.14 | 5.99 | 1.18 | 5.86 | 5.86 | 1.28 | 5.59 | 5.59 | 1.38 | 5.31 | 5.31 | 1.49 |

4D151949

Notes

1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. When the system performs indoor de-icing operation, these net capacities may change.
3. The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
4. The capacities are based on the following conditions:
   Corresponding refrigerant piping length: 5 m. Level difference: 0 m

For all capacity tables of RZAG-B refer to the databook.

# Boosted capacity indoor unit with 7kW outdoor system

RZAG71NV1
RZAG71NY1

| Indoor | | | -20 | | | -15 | | | -10 | | | -5 | | | 0 | | | 5 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI |
| RH [%] | °CWB | °CDB | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - |
| 41.8 | 11 | 18 | 4.81 | 4.67 | 0.32 | 4.81 | 4.67 | 0.34 | 4.81 | 4.67 | 0.36 | 4.81 | 4.67 | 0.37 | 4.81 | 4.67 | 0.39 | 4.81 | 4.67 | 0.41 |
| 57.0 | 13 | | 6.02 | 5.05 | 0.33 | 6.02 | 5.05 | 0.37 | 6.02 | 5.05 | 0.41 | 6.02 | 5.05 | 0.45 | 6.02 | 5.05 | 0.50 | 6.02 | 5.05 | 0.52 |
| 31.4 | 11 | 20 | 4.81 | 4.81 | 0.32 | 4.81 | 4.81 | 0.34 | 4.81 | 4.81 | 0.36 | 4.81 | 4.81 | 0.37 | 4.81 | 4.81 | 0.39 | 4.81 | 4.81 | 0.41 |
| 44.9 | 13 | | 6.02 | 6.02 | 0.33 | 6.02 | 6.02 | 0.37 | 6.02 | 6.02 | 0.41 | 6.02 | 6.02 | 0.45 | 6.02 | 6.02 | 0.50 | 6.02 | 6.02 | 0.52 |
| 52.0 | 14 | | 6.62 | 5.76 | 0.34 | 6.62 | 5.76 | 0.38 | 6.62 | 5.76 | 0.44 | 6.62 | 5.76 | 0.50 | 6.62 | 5.76 | 0.55 | 6.62 | 5.76 | 0.58 |
| 22.9 | 11 | 22 | 4.81 | 4.81 | 0.32 | 4.81 | 4.81 | 0.34 | 4.81 | 4.81 | 0.36 | 4.81 | 4.81 | 0.37 | 4.81 | 4.81 | 0.39 | 4.81 | 4.81 | 0.41 |
| 34.8 | 13 | | 6.02 | 6.02 | 0.33 | 6.02 | 6.02 | 0.37 | 6.02 | 6.02 | 0.41 | 6.02 | 6.02 | 0.45 | 6.02 | 6.02 | 0.50 | 6.02 | 6.02 | 0.52 |
| 47.6 | 15 | | 7.22 | 6.06 | 0.34 | 7.22 | 6.06 | 0.39 | 7.22 | 6.06 | 0.46 | 7.22 | 6.06 | 0.54 | 7.22 | 6.06 | 0.61 | 7.22 | 6.06 | 0.63 |
| 54.3 | 16 | | 7.82 | 5.71 | 0.35 | 7.82 | 5.71 | 0.41 | 7.82 | 5.71 | 0.49 | 7.82 | 5.71 | 0.58 | 7.82 | 5.71 | 0.66 | 7.82 | 5.71 | 0.69 |
| 21.2 | 12 | 24 | 5.41 | 5.41 | 0.33 | 5.41 | 5.41 | 0.36 | 5.41 | 5.41 | 0.38 | 5.41 | 5.41 | 0.41 | 5.41 | 5.41 | 0.44 | 5.41 | 5.41 | 0.46 |
| 32.1 | 14 | | 6.62 | 6.62 | 0.34 | 6.62 | 6.62 | 0.38 | 6.62 | 6.62 | 0.44 | 6.62 | 6.62 | 0.50 | 6.62 | 6.62 | 0.55 | 6.62 | 6.62 | 0.58 |
| 43.8 | 16 | | 7.82 | 6.57 | 0.35 | 7.82 | 6.57 | 0.41 | 7.82 | 6.57 | 0.49 | 7.82 | 6.57 | 0.58 | 7.82 | 6.57 | 0.66 | 7.82 | 6.57 | 0.69 |
| 50.0 | 17 | | 8.10 | 6.08 | 0.37 | 8.10 | 6.08 | 0.43 | 8.10 | 6.08 | 0.51 | 8.10 | 6.08 | 0.60 | 8.10 | 6.08 | 0.68 | 8.10 | 6.08 | 0.70 |
| 21.5 | 14 | 27 | 6.62 | 6.62 | 0.34 | 6.62 | 6.62 | 0.38 | 6.62 | 6.62 | 0.44 | 6.62 | 6.62 | 0.50 | 6.62 | 6.62 | 0.55 | 6.62 | 6.62 | 0.58 |
| 26.3 | 15 | | 7.22 | 7.22 | 0.34 | 7.22 | 7.22 | 0.39 | 7.22 | 7.22 | 0.46 | 7.22 | 7.22 | 0.54 | 7.22 | 7.22 | 0.61 | 7.22 | 7.22 | 0.63 |
| 31.3 | 16 | | 7.82 | 7.82 | 0.35 | 7.82 | 7.82 | 0.41 | 7.82 | 7.82 | 0.49 | 7.82 | 7.82 | 0.58 | 7.82 | 7.82 | 0.66 | 7.82 | 7.82 | 0.69 |

| Indoor | | | 10 | | | 15 | | | 20 | | | 25 | | | 30 | | | 35 | | | 40 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI |
| RH [%] | °CWB | °CDB | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - |
| 41.8 | 11 | 18 | 4.81 | 4.67 | 0.43 | 4.81 | 4.67 | 0.46 | 4.81 | 4.67 | 0.48 | 5.90 | 5.90 | 0.98 | 5.85 | 5.85 | 1.09 | 5.80 | 5.80 | 1.19 | 5.76 | 5.76 | 1.30 |
| 57.0 | 13 | | 6.02 | 5.05 | 0.55 | 6.02 | 5.05 | 0.57 | 6.02 | 5.05 | 0.64 | 7.49 | 5.89 | 0.99 | 7.23 | 5.75 | 1.10 | 6.96 | 5.61 | 1.20 | 6.70 | 5.47 | 1.31 |
| 31.4 | 11 | 20 | 4.81 | 4.81 | 0.43 | 4.81 | 4.81 | 0.46 | 4.81 | 4.81 | 0.48 | 5.90 | 5.90 | 0.98 | 5.85 | 5.85 | 1.09 | 5.80 | 5.80 | 1.19 | 5.76 | 5.76 | 1.30 |
| 44.9 | 13 | | 6.02 | 6.02 | 0.55 | 6.02 | 6.02 | 0.57 | 6.02 | 6.02 | 0.64 | 7.49 | 7.00 | 0.99 | 7.23 | 6.81 | 1.10 | 6.96 | 6.60 | 1.20 | 6.70 | 6.37 | 1.31 |
| 52.0 | 14 | | 6.62 | 5.76 | 0.60 | 6.62 | 5.76 | 0.63 | 6.62 | 5.76 | 0.72 | 8.15 | 6.56 | 0.99 | 7.74 | 6.36 | 1.10 | 7.34 | 6.15 | 1.20 | 6.93 | 5.93 | 1.31 |
| 22.9 | 11 | 22 | 4.81 | 4.81 | 0.43 | 4.81 | 4.81 | 0.46 | 4.81 | 4.81 | 0.48 | 5.90 | 5.90 | 0.98 | 5.85 | 5.85 | 1.09 | 5.80 | 5.80 | 1.19 | 5.76 | 5.76 | 1.30 |
| 34.8 | 13 | | 6.02 | 6.02 | 0.55 | 6.02 | 6.02 | 0.57 | 6.02 | 6.02 | 0.64 | 7.49 | 7.49 | 0.99 | 7.23 | 7.23 | 1.10 | 6.96 | 6.96 | 1.20 | 6.70 | 6.70 | 1.31 |
| 47.6 | 15 | | 7.22 | 6.06 | 0.66 | 7.22 | 6.06 | 0.69 | 7.22 | 6.06 | 0.79 | 8.41 | 7.00 | 1.00 | 7.99 | 6.80 | 1.11 | 7.58 | 6.60 | 1.21 | 7.16 | 6.37 | 1.32 |
| 54.3 | 16 | | 7.82 | 5.71 | 0.72 | 7.82 | 5.71 | 0.75 | 7.82 | 5.71 | 0.87 | 8.68 | 6.54 | 1.00 | 8.25 | 6.35 | 1.11 | 7.83 | 6.14 | 1.21 | 7.40 | 5.92 | 1.32 |
| 21.2 | 12 | 24 | 5.41 | 5.41 | 0.49 | 5.41 | 5.41 | 0.52 | 5.41 | 5.41 | 0.56 | 6.70 | 6.70 | 0.99 | 6.54 | 6.54 | 1.10 | 6.38 | 6.38 | 1.20 | 6.23 | 6.23 | 1.31 |
| 32.1 | 14 | | 6.62 | 6.62 | 0.60 | 6.62 | 6.62 | 0.63 | 6.62 | 6.62 | 0.72 | 8.15 | 8.15 | 0.99 | 7.74 | 7.74 | 1.10 | 7.34 | 7.34 | 1.20 | 6.93 | 6.93 | 1.31 |
| 43.8 | 16 | | 7.82 | 6.57 | 0.72 | 7.82 | 6.57 | 0.75 | 7.82 | 6.57 | 0.87 | 8.68 | 7.45 | 1.00 | 8.25 | 7.26 | 1.11 | 7.83 | 7.04 | 1.21 | 7.40 | 6.82 | 1.32 |
| 50.0 | 17 | | 8.10 | 6.08 | 0.73 | 8.10 | 6.08 | 0.75 | 8.10 | 6.08 | 0.88 | 8.96 | 6.99 | 1.00 | 8.53 | 6.80 | 1.11 | 8.09 | 6.59 | 1.21 | 7.66 | 6.37 | 1.32 |
| 21.5 | 14 | 27 | 6.62 | 6.62 | 0.60 | 6.62 | 6.62 | 0.63 | 6.62 | 6.62 | 0.72 | 8.15 | 8.15 | 0.99 | 7.74 | 7.74 | 1.10 | 7.34 | 7.34 | 1.20 | 6.93 | 6.93 | 1.31 |
| 26.3 | 15 | | 7.22 | 7.22 | 0.66 | 7.22 | 7.22 | 0.69 | 7.22 | 7.22 | 0.79 | 8.41 | 8.41 | 1.00 | 7.99 | 7.99 | 1.11 | 7.58 | 7.58 | 1.21 | 7.16 | 7.16 | 1.32 |
| 31.3 | 16 | | 7.82 | 7.82 | 0.72 | 7.82 | 7.82 | 0.75 | 7.82 | 7.82 | 0.87 | 8.68 | 8.68 | 1.00 | 8.25 | 8.25 | 1.11 | 7.83 | 7.83 | 1.21 | 7.40 | 7.40 | 1.32 |

| Pair | FCAHG100H | FCAG100B | FAA100A | FVA100A | FHA100A | FUA100A | FUB100A |
|---|---|---|---|---|---|---|---|
| Cooling | 1.64 | 1.64 | 1.96 | 1.72 | 1.69 | 1.69 | 1.64 |

| Twin | FCAG50B X 2 | FHA50A X 2 | FFA50A X 2 | FDXM50F X 2 | FBA50A X 2 |
|---|---|---|---|---|---|
| Cooling | 1.56 | 1.70 | 1.79 | 1.44 | 1.67 |

| Triple | FCAG35B X 3 | FHA35A X 3 | FFA35A X 3 | FDXM35F9 X 3 | FBA35A x 3 |
|---|---|---|---|---|---|
| Cooling | 1.51 | 1.51 | 1.62 | 1.51 | 1.64 |

3D125184B

# Boosted capacity indoor unit with 10kW outdoor system

RZAG100NV1
RZAG100NY1

| Indoor | | | -20 | | | -15 | | | -10 | | | -5 | | | 0 | | | 5 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI |
| RH [%] | °CWB | °CDB | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - |
| 41.8 | 11 | 18 | 6.00 | 6.00 | 0.32 | 6.00 | 6.00 | 0.33 | 6.00 | 6.00 | 0.34 | 6.00 | 6.00 | 0.35 | 6.00 | 6.00 | 0.37 | 6.00 | 6.00 | 0.38 |
| 57.0 | 13 | | 7.48 | 6.37 | 0.42 | 7.48 | 6.37 | 0.42 | 7.48 | 6.37 | 0.44 | 7.48 | 6.37 | 0.45 | 7.48 | 6.37 | 0.46 | 7.48 | 6.37 | 0.46 |
| 31.4 | 11 | 20 | 6.00 | 6.00 | 0.32 | 6.00 | 6.00 | 0.33 | 6.00 | 6.00 | 0.34 | 6.00 | 6.00 | 0.35 | 6.00 | 6.00 | 0.37 | 6.00 | 6.00 | 0.38 |
| 44.9 | 13 | | 7.48 | 7.25 | 0.42 | 7.48 | 7.25 | 0.42 | 7.48 | 7.25 | 0.44 | 7.48 | 7.25 | 0.45 | 7.48 | 7.25 | 0.46 | 7.48 | 7.25 | 0.46 |
| 52.0 | 14 | | 8.22 | 7.18 | 0.46 | 8.22 | 7.18 | 0.47 | 8.22 | 7.18 | 0.48 | 8.22 | 7.18 | 0.49 | 8.22 | 7.18 | 0.51 | 8.22 | 7.18 | 0.50 |
| 22.9 | 11 | 22 | 6.00 | 6.00 | 0.32 | 6.00 | 6.00 | 0.33 | 6.00 | 6.00 | 0.34 | 6.00 | 6.00 | 0.35 | 6.00 | 6.00 | 0.37 | 6.00 | 6.00 | 0.38 |
| 34.8 | 13 | | 7.48 | 7.48 | 0.42 | 7.48 | 7.48 | 0.42 | 7.48 | 7.48 | 0.44 | 7.48 | 7.48 | 0.45 | 7.48 | 7.48 | 0.46 | 7.48 | 7.48 | 0.46 |
| 47.6 | 15 | | 8.96 | 7.82 | 0.51 | 8.96 | 7.82 | 0.52 | 8.96 | 7.82 | 0.53 | 8.96 | 7.82 | 0.54 | 8.96 | 7.82 | 0.55 | 8.96 | 7.82 | 0.54 |
| 54.3 | 16 | | 9.70 | 7.54 | 0.56 | 9.70 | 7.54 | 0.56 | 9.70 | 7.54 | 0.58 | 9.70 | 7.54 | 0.59 | 9.70 | 7.54 | 0.60 | 9.70 | 7.54 | 0.59 |
| 21.2 | 12 | 24 | 6.74 | 6.74 | 0.37 | 6.74 | 6.74 | 0.38 | 6.74 | 6.74 | 0.39 | 6.74 | 6.74 | 0.40 | 6.74 | 6.74 | 0.41 | 6.74 | 6.74 | 0.42 |
| 32.1 | 14 | | 8.22 | 8.22 | 0.46 | 8.22 | 8.22 | 0.47 | 8.22 | 8.22 | 0.48 | 8.22 | 8.22 | 0.49 | 8.22 | 8.22 | 0.51 | 8.22 | 8.22 | 0.50 |
| 43.8 | 16 | | 9.70 | 8.68 | 0.56 | 9.70 | 8.68 | 0.56 | 9.70 | 8.68 | 0.58 | 9.70 | 8.68 | 0.59 | 9.70 | 8.68 | 0.60 | 9.70 | 8.68 | 0.59 |
| 50.0 | 17 | | 9.98 | 7.86 | 0.57 | 9.98 | 7.86 | 0.58 | 9.98 | 7.86 | 0.59 | 9.98 | 7.86 | 0.60 | 9.98 | 7.86 | 0.61 | 9.98 | 7.86 | 0.60 |
| 21.5 | 14 | 27 | 8.22 | 8.22 | 0.46 | 8.22 | 8.22 | 0.47 | 8.22 | 8.22 | 0.48 | 8.22 | 8.22 | 0.49 | 8.22 | 8.22 | 0.51 | 8.22 | 8.22 | 0.50 |
| 26.3 | 15 | | 8.96 | 8.96 | 0.51 | 8.96 | 8.96 | 0.52 | 8.96 | 8.96 | 0.53 | 8.96 | 8.96 | 0.54 | 8.96 | 8.96 | 0.55 | 8.96 | 8.96 | 0.54 |
| 31.3 | 16 | | 9.70 | 9.70 | 0.56 | 9.70 | 9.70 | 0.56 | 9.70 | 9.70 | 0.58 | 9.70 | 9.70 | 0.59 | 9.70 | 9.70 | 0.60 | 9.70 | 9.70 | 0.59 |

| Indoor | | | 10 | | | 15 | | | 20 | | | 25 | | | 30 | | | 35 | | | 40 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI |
| RH [%] | °CWB | °CDB | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - |
| 41.8 | 11 | 18 | 6.00 | 6.00 | 0.38 | 6.00 | 6.00 | 0.39 | 6.00 | 6.00 | 0.39 | 8.36 | 7.98 | 1.00 | 7.92 | 7.72 | 1.10 | 7.48 | 7.43 | 1.20 | 7.09 | 7.15 | 1.29 |
| 57.0 | 13 | | 7.48 | 6.37 | 0.46 | 7.48 | 6.37 | 0.45 | 7.48 | 6.37 | 0.46 | 9.71 | 7.67 | 1.00 | 9.30 | 7.42 | 1.11 | 8.90 | 7.16 | 1.21 | 8.45 | 6.88 | 1.30 |
| 31.4 | 11 | 20 | 6.00 | 6.00 | 0.38 | 6.00 | 6.00 | 0.39 | 6.00 | 6.00 | 0.39 | 8.36 | 8.36 | 1.00 | 7.92 | 7.92 | 1.10 | 7.48 | 7.48 | 1.20 | 7.09 | 7.09 | 1.29 |
| 44.9 | 13 | | 7.48 | 7.25 | 0.46 | 7.48 | 7.25 | 0.45 | 7.48 | 7.25 | 0.46 | 9.71 | 8.53 | 1.00 | 9.30 | 8.28 | 1.11 | 8.90 | 8.01 | 1.21 | 8.45 | 7.74 | 1.30 |
| 52.0 | 14 | | 8.22 | 7.18 | 0.49 | 8.22 | 7.18 | 0.49 | 8.22 | 7.18 | 0.49 | 10.50 | 8.45 | 1.01 | 10.23 | 8.31 | 1.11 | 9.96 | 8.17 | 1.21 | 9.68 | 7.94 | 1.31 |
| 22.9 | 11 | 22 | 6.00 | 6.00 | 0.38 | 6.00 | 6.00 | 0.39 | 6.00 | 6.00 | 0.39 | 8.36 | 8.36 | 1.00 | 7.92 | 7.92 | 1.10 | 7.48 | 7.48 | 1.20 | 7.09 | 7.09 | 1.29 |
| 34.8 | 13 | | 7.48 | 7.48 | 0.46 | 7.48 | 7.48 | 0.45 | 7.48 | 7.48 | 0.46 | 9.71 | 9.71 | 1.00 | 9.30 | 9.30 | 1.11 | 8.90 | 8.90 | 1.21 | 8.45 | 8.45 | 1.30 |
| 47.6 | 15 | | 8.96 | 7.82 | 0.53 | 8.96 | 7.82 | 0.52 | 8.96 | 7.82 | 0.52 | 11.28 | 9.19 | 1.01 | 10.89 | 8.96 | 1.11 | 10.51 | 8.72 | 1.22 | 10.12 | 8.48 | 1.32 |
| 54.3 | 16 | | 9.70 | 7.54 | 0.57 | 9.70 | 7.54 | 0.55 | 9.70 | 7.54 | 0.56 | 11.84 | 8.40 | 1.01 | 11.40 | 8.22 | 1.11 | 11.03 | 8.04 | 1.22 | 10.58 | 7.77 | 1.32 |
| 21.2 | 12 | 24 | 6.74 | 6.74 | 0.42 | 6.74 | 6.74 | 0.42 | 6.74 | 6.74 | 0.42 | 9.04 | 9.04 | 1.00 | 8.61 | 8.61 | 1.10 | 8.19 | 8.19 | 1.21 | 7.77 | 7.77 | 1.30 |
| 32.1 | 14 | | 8.22 | 8.22 | 0.49 | 8.22 | 8.22 | 0.49 | 8.22 | 8.22 | 0.49 | 10.50 | 10.50 | 1.01 | 10.23 | 10.23 | 1.11 | 9.96 | 9.96 | 1.21 | 9.68 | 9.68 | 1.31 |
| 43.8 | 16 | | 9.70 | 8.68 | 0.57 | 9.70 | 8.68 | 0.55 | 9.70 | 8.68 | 0.56 | 11.84 | 9.74 | 1.01 | 11.40 | 9.51 | 1.12 | 11.03 | 9.32 | 1.22 | 10.58 | 9.06 | 1.32 |
| 50.0 | 17 | | 9.98 | 7.86 | 0.60 | 9.98 | 7.86 | 0.60 | 9.98 | 7.86 | 0.60 | 12.39 | 9.45 | 1.02 | 11.86 | 9.16 | 1.12 | 11.33 | 8.86 | 1.22 | 10.80 | 8.52 | 1.33 |
| 21.5 | 14 | 27 | 8.22 | 8.22 | 0.49 | 8.22 | 8.22 | 0.49 | 8.22 | 8.22 | 0.49 | 10.50 | 10.50 | 1.01 | 10.23 | 10.23 | 1.11 | 9.96 | 9.96 | 1.21 | 9.68 | 9.68 | 1.31 |
| 26.3 | 15 | | 8.96 | 8.96 | 0.53 | 8.96 | 8.96 | 0.52 | 8.96 | 8.96 | 0.52 | 11.28 | 11.28 | 1.01 | 10.89 | 10.89 | 1.11 | 10.51 | 10.51 | 1.22 | 10.12 | 10.12 | 1.32 |
| 31.3 | 16 | | 9.70 | 9.70 | 0.57 | 9.70 | 9.70 | 0.55 | 9.70 | 9.70 | 0.56 | 11.84 | 11.84 | 1.01 | 11.40 | 11.40 | 1.12 | 11.03 | 11.03 | 1.22 | 10.58 | 10.58 | 1.32 |

| Pair | FCAHG140H | FCAG140B | FVA140A | FHA140A | FBA140A |
|---|---|---|---|---|---|
| Cooling | 2.35 | 2.28 | 2.39 | 2.32 | 2.25 |

| Twin | FCAHG71Hx2 | FCAG71Bx2 | FHA71Ax2 | FUA71Ax2 | FAA71Ax2 | FBA71Ax2 |
|---|---|---|---|---|---|---|
| Cooling | 2.02 | 2.15 | 2.10 | 2.11 | 2.19 | 2.06 |

| Triple | FCAG50Bx3 | FHA50Ax3 | FFA50Ax3 | FDXM50Fx3 | FBA50Ax3 |
|---|---|---|---|---|---|
| Cooling | 2.03 | 2.18 | 2.25 | 1.88 | 2.18 |

| Double twin | FCAG35Bx4 | FHA35Ax4 | FFA35Ax4 | FDXM35Fx4 | FBA35Ax4 |
|---|---|---|---|---|---|
| Cooling | 2.00 | 2.01 | 2.12 | 2.00 | 2.18 |

3D125185A

Notes

1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. The capacities are based on the following conditions:
   - Outdoor air: ·85% RH·
   - Corresponding refrigerant piping length: ·5.0· m Cooling
   - Level difference: ·0·m
3. For ·EDP· applications, it is recommended to use outdoor unit setting ·2-57-2·.
4. ·CPI· is a percentage value compared to the rated value which is ·1.00·.
5. The error rate for this value is less than ·5·% and depends on the indoor unit type.
6. The rated power input (PI) for each model is mentioned in the table below.

Symbols

TC: Maximum total cooling capacity [kW]
SHC: Sensible heat capacity [kW]
CPI : Coefficient of the power input
PI : Power input [kW] Compressor + indoor and outdoor fan motors
RH : Relative humidity [%]

# Boosted capacity indoor unit with 12kW outdoor system

RZAG125NV1
RZAG125NY1

| Indoor | | | Outdoor temperature [°C DB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | -20 | | | -15 | | | -10 | | | -5 | | | 0 | | | 5 | | | 10 | | | 15 | | | 20 | | | 25 | | | 30 | | | 35 | | | 40 | | |
| | | | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI |
| RH [%] | °CWB | °CDB | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - |
| 41.8 | 11 | 18 | 7.49 | 7.49 | 0.32 | 7.49 | 7.49 | 0.33 | 7.49 | 7.49 | 0.34 | 7.49 | 7.49 | 0.35 | 7.49 | 7.49 | 0.36 | 7.49 | 7.49 | 0.37 | 7.49 | 7.49 | 0.38 | 7.49 | 7.49 | 0.38 | 7.49 | 7.49 | 0.38 | 10.25 | 9.60 | 0.98 | 9.71 | 9.28 | 1.08 | 9.17 | 8.94 | 1.18 | 8.69 | 8.60 | 1.27 |
| 57.0 | 13 | | 9.34 | 7.60 | 0.41 | 9.34 | 7.60 | 0.42 | 9.34 | 7.60 | 0.43 | 9.34 | 7.60 | 0.44 | 9.34 | 7.60 | 0.45 | 9.34 | 7.60 | 0.45 | 9.34 | 7.60 | 0.45 | 9.34 | 7.60 | 0.45 | 9.34 | 7.60 | 0.45 | 11.91 | 9.22 | 0.99 | 11.41 | 8.92 | 1.09 | 10.91 | 8.61 | 1.19 | 10.37 | 8.28 | 1.28 |
| 31.4 | 11 | 20 | 7.49 | 7.49 | 0.32 | 7.49 | 7.49 | 0.33 | 7.49 | 7.49 | 0.34 | 7.49 | 7.49 | 0.35 | 7.49 | 7.49 | 0.36 | 7.49 | 7.49 | 0.37 | 7.49 | 7.49 | 0.38 | 7.49 | 7.49 | 0.38 | 7.49 | 7.49 | 0.38 | 10.25 | 10.25 | 0.98 | 9.71 | 9.71 | 1.08 | 9.17 | 9.17 | 1.18 | 8.69 | 8.69 | 1.27 |
| 44.9 | 13 | | 9.34 | 8.65 | 0.41 | 9.34 | 8.65 | 0.42 | 9.34 | 8.65 | 0.43 | 9.34 | 8.65 | 0.44 | 9.34 | 8.65 | 0.45 | 9.34 | 8.65 | 0.45 | 9.34 | 8.65 | 0.45 | 9.34 | 8.65 | 0.45 | 9.34 | 8.65 | 0.45 | 11.91 | 10.27 | 0.99 | 11.41 | 9.96 | 1.09 | 10.91 | 9.64 | 1.19 | 10.37 | 9.31 | 1.28 |
| 52.0 | 14 | | 10.27 | 8.56 | 0.46 | 10.27 | 8.56 | 0.46 | 10.27 | 8.56 | 0.47 | 10.27 | 8.56 | 0.49 | 10.27 | 8.56 | 0.50 | 10.27 | 8.56 | 0.49 | 10.27 | 8.56 | 0.49 | 10.27 | 8.56 | 0.48 | 10.27 | 8.56 | 0.48 | 12.88 | 10.16 | 0.99 | 12.54 | 10.00 | 1.09 | 12.21 | 9.83 | 1.19 | 11.87 | 9.55 | 1.29 |
| 22.9 | 11 | 22 | 7.49 | 7.49 | 0.32 | 7.49 | 7.49 | 0.33 | 7.49 | 7.49 | 0.34 | 7.49 | 7.49 | 0.35 | 7.49 | 7.49 | 0.36 | 7.49 | 7.49 | 0.37 | 7.49 | 7.49 | 0.38 | 7.49 | 7.49 | 0.38 | 7.49 | 7.49 | 0.38 | 10.25 | 10.25 | 0.98 | 9.71 | 9.71 | 1.08 | 9.17 | 9.17 | 1.18 | 8.69 | 8.69 | 1.27 |
| 34.8 | 13 | | 9.34 | 9.34 | 0.41 | 9.34 | 9.34 | 0.42 | 9.34 | 9.34 | 0.43 | 9.34 | 9.34 | 0.44 | 9.34 | 9.34 | 0.45 | 9.34 | 9.34 | 0.45 | 9.34 | 9.34 | 0.45 | 9.34 | 9.34 | 0.45 | 9.34 | 9.34 | 0.45 | 11.91 | 11.91 | 0.99 | 11.41 | 11.41 | 1.09 | 10.91 | 10.91 | 1.19 | 10.37 | 10.37 | 1.28 |
| 47.6 | 15 | | 11.20 | 9.34 | 0.50 | 11.20 | 9.34 | 0.51 | 11.20 | 9.34 | 0.52 | 11.20 | 9.34 | 0.53 | 11.20 | 9.34 | 0.55 | 11.20 | 9.34 | 0.54 | 11.20 | 9.34 | 0.52 | 11.20 | 9.34 | 0.51 | 11.20 | 9.34 | 0.51 | 13.83 | 11.06 | 0.99 | 13.36 | 10.78 | 1.09 | 12.88 | 10.49 | 1.20 | 12.41 | 10.20 | 1.29 |
| 54.3 | 16 | | 12.12 | 9.00 | 0.55 | 12.12 | 9.00 | 0.55 | 12.12 | 9.00 | 0.57 | 12.12 | 9.00 | 0.58 | 12.12 | 9.00 | 0.59 | 12.12 | 9.00 | 0.58 | 12.12 | 9.00 | 0.56 | 12.12 | 9.00 | 0.54 | 12.12 | 9.00 | 0.55 | 14.51 | 10.10 | 1.00 | 13.98 | 9.89 | 1.10 | 13.52 | 9.67 | 1.20 | 12.98 | 9.35 | 1.30 |
| 21.2 | 12 | 24 | 8.42 | 8.42 | 0.36 | 8.42 | 8.42 | 0.37 | 8.42 | 8.42 | 0.38 | 8.42 | 8.42 | 0.39 | 8.42 | 8.42 | 0.41 | 8.42 | 8.42 | 0.41 | 8.42 | 8.42 | 0.41 | 8.42 | 8.42 | 0.41 | 8.42 | 8.42 | 0.41 | 11.08 | 11.08 | 0.98 | 10.56 | 10.56 | 1.08 | 10.04 | 10.04 | 1.19 | 9.53 | 9.53 | 1.27 |
| 32.1 | 14 | | 10.27 | 10.27 | 0.46 | 10.27 | 10.27 | 0.46 | 10.27 | 10.27 | 0.47 | 10.27 | 10.27 | 0.49 | 10.27 | 10.27 | 0.50 | 10.27 | 10.27 | 0.49 | 10.27 | 10.27 | 0.49 | 10.27 | 10.27 | 0.48 | 10.27 | 10.27 | 0.48 | 12.88 | 12.88 | 0.99 | 12.54 | 12.54 | 1.09 | 12.21 | 12.21 | 1.19 | 11.87 | 11.87 | 1.29 |
| 43.8 | 16 | | 12.12 | 10.35 | 0.55 | 12.12 | 10.35 | 0.55 | 12.12 | 10.35 | 0.57 | 12.12 | 10.35 | 0.58 | 12.12 | 10.35 | 0.59 | 12.12 | 10.35 | 0.58 | 12.12 | 10.35 | 0.56 | 12.12 | 10.35 | 0.54 | 12.12 | 10.35 | 0.55 | 14.51 | 11.71 | 1.00 | 13.98 | 11.44 | 1.10 | 13.52 | 11.21 | 1.20 | 12.98 | 10.90 | 1.30 |
| 50.0 | 17 | | 12.47 | 9.38 | 0.56 | 12.47 | 9.38 | 0.57 | 12.47 | 9.38 | 0.58 | 12.47 | 9.38 | 0.59 | 12.47 | 9.38 | 0.60 | 12.47 | 9.38 | 0.59 | 12.47 | 9.38 | 0.59 | 12.47 | 9.38 | 0.59 | 12.47 | 9.38 | 0.59 | 15.20 | 11.36 | 1.00 | 14.54 | 11.02 | 1.10 | 13.89 | 10.66 | 1.20 | 13.24 | 10.25 | 1.31 |
| 21.5 | 14 | 27 | 10.27 | 10.27 | 0.46 | 10.27 | 10.27 | 0.46 | 10.27 | 10.27 | 0.47 | 10.27 | 10.27 | 0.49 | 10.27 | 10.27 | 0.50 | 10.27 | 10.27 | 0.49 | 10.27 | 10.27 | 0.49 | 10.27 | 10.27 | 0.48 | 10.27 | 10.27 | 0.48 | 12.88 | 12.88 | 0.99 | 12.54 | 12.54 | 1.09 | 12.21 | 12.21 | 1.19 | 11.87 | 11.87 | 1.29 |
| 26.3 | 15 | | 11.20 | 11.20 | 0.50 | 11.20 | 11.20 | 0.51 | 11.20 | 11.20 | 0.52 | 11.20 | 11.20 | 0.53 | 11.20 | 11.20 | 0.55 | 11.20 | 11.20 | 0.54 | 11.20 | 11.20 | 0.52 | 11.20 | 11.20 | 0.51 | 11.20 | 11.20 | 0.51 | 13.83 | 13.83 | 0.99 | 13.36 | 13.36 | 1.09 | 12.88 | 12.88 | 1.20 | 12.41 | 12.41 | 1.29 |
| 31.3 | 16 | | 12.12 | 12.12 | 0.55 | 12.12 | 12.12 | 0.55 | 12.12 | 12.12 | 0.57 | 12.12 | 12.12 | 0.58 | 12.12 | 12.12 | 0.59 | 12.12 | 12.12 | 0.58 | 12.12 | 12.12 | 0.56 | 12.12 | 12.12 | 0.54 | 12.12 | 12.12 | 0.55 | 14.51 | 14.51 | 1.00 | 13.98 | 13.98 | 1.10 | 13.52 | 13.52 | 1.20 | 12.98 | 12.98 | 1.30 |

| Pair | FCAHG140H | FCAG140B | FVA140A | FHA140A | FBA140A |
|---|---|---|---|---|---|
| Cooling | 3.09 | 3.07 | 3.17 | 3.05 | 2.99 |

| Twin | FCAHG71Hx2 | FCAG71Bx2 | FHA71Ax2 | FUA71Ax2 | FAA71Ax2 | FBA71Ax2 |
|---|---|---|---|---|---|---|
| Cooling | 2.57 | 2.79 | 2.68 | 2.69 | 2.88 | 2.64 |

| Triple | FCAG50Bx3 | FHA50Ax3 | FFA50Ax3 | FDXM50Fx3 | FBA50Ax3 |
|---|---|---|---|---|---|
| Cooling | 2.57 | 2.79 | 2.97 | 2.36 | 2.74 |

| Double twin | FCAG35Bx4 | FHA35Ax4 | FFA35Ax4 | FDXM35Fx4 | FBA35Ax4 |
|---|---|---|---|---|---|
| Cooling | 2.51 | 2.45 | 2.71 | 2.55 | 2.96 |

3D125186A

# Boosted capacity indoor unit with 14kW outdoor system

RZAG140NV1
RZAG140NY1

| Indoor | | | Outdoor temperature [°C DB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | -20 | | | -15 | | | -10 | | | -5 | | | 0 | | | 5 | | | 10 | | | 15 | | | 20 | | | 25 | | | 30 | | | 35 | | | 40 | | |
| | | | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI |
| RH [%] | °CWB | °CDB | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - | kW | kW | - |
| 41.8 | 11 | 18 | 8.24 | 8.24 | 0.31 | 8.24 | 8.24 | 0.32 | 8.24 | 8.24 | 0.33 | 8.24 | 8.24 | 0.34 | 8.24 | 8.24 | 0.35 | 8.24 | 8.24 | 0.37 | 8.24 | 8.24 | 0.37 | 8.24 | 8.24 | 0.37 | 8.24 | 8.24 | 0.38 | 10.95 | 9.96 | 0.96 | 10.37 | 9.62 | 1.06 | 9.79 | 9.27 | 1.16 | 9.28 | 8.92 | 1.25 |
| 57.0 | 13 | | 10.28 | 8.22 | 0.40 | 10.28 | 8.22 | 0.41 | 10.28 | 8.22 | 0.42 | 10.28 | 8.22 | 0.43 | 10.28 | 8.22 | 0.45 | 10.28 | 8.22 | 0.45 | 10.28 | 8.22 | 0.44 | 10.28 | 8.22 | 0.44 | 10.28 | 8.22 | 0.44 | 12.72 | 9.56 | 0.97 | 12.18 | 9.25 | 1.07 | 11.65 | 8.93 | 1.17 | 11.07 | 8.58 | 1.26 |
| 31.4 | 11 | 20 | 8.24 | 8.24 | 0.31 | 8.24 | 8.24 | 0.32 | 8.24 | 8.24 | 0.33 | 8.24 | 8.24 | 0.34 | 8.24 | 8.24 | 0.35 | 8.24 | 8.24 | 0.37 | 8.24 | 8.24 | 0.37 | 8.24 | 8.24 | 0.37 | 8.24 | 8.24 | 0.38 | 10.95 | 10.95 | 0.96 | 10.37 | 10.37 | 1.06 | 9.79 | 9.79 | 1.16 | 9.28 | 9.28 | 1.25 |
| 44.9 | 13 | | 10.28 | 9.35 | 0.40 | 10.28 | 9.35 | 0.41 | 10.28 | 9.35 | 0.42 | 10.28 | 9.35 | 0.43 | 10.28 | 9.35 | 0.45 | 10.28 | 9.35 | 0.45 | 10.28 | 9.35 | 0.44 | 10.28 | 9.35 | 0.44 | 10.28 | 9.35 | 0.44 | 12.72 | 10.64 | 0.97 | 12.18 | 10.33 | 1.07 | 11.65 | 10.00 | 1.17 | 11.07 | 9.65 | 1.26 |
| 52.0 | 14 | | 11.30 | 9.26 | 0.45 | 11.30 | 9.26 | 0.45 | 11.30 | 9.26 | 0.47 | 11.30 | 9.26 | 0.48 | 11.30 | 9.26 | 0.49 | 11.30 | 9.26 | 0.49 | 11.30 | 9.26 | 0.48 | 11.30 | 9.26 | 0.47 | 11.30 | 9.26 | 0.47 | 13.75 | 10.53 | 0.97 | 13.40 | 10.36 | 1.07 | 13.04 | 10.19 | 1.17 | 12.68 | 9.90 | 1.27 |
| 22.9 | 11 | 22 | 8.24 | 8.24 | 0.31 | 8.24 | 8.24 | 0.32 | 8.24 | 8.24 | 0.33 | 8.24 | 8.24 | 0.34 | 8.24 | 8.24 | 0.35 | 8.24 | 8.24 | 0.37 | 8.24 | 8.24 | 0.37 | 8.24 | 8.24 | 0.37 | 8.24 | 8.24 | 0.38 | 10.95 | 10.95 | 0.96 | 10.37 | 10.37 | 1.06 | 9.79 | 9.79 | 1.16 | 9.28 | 9.28 | 1.25 |
| 34.8 | 13 | | 10.28 | 10.28 | 0.40 | 10.28 | 10.28 | 0.41 | 10.28 | 10.28 | 0.42 | 10.28 | 10.28 | 0.43 | 10.28 | 10.28 | 0.45 | 10.28 | 10.28 | 0.45 | 10.28 | 10.28 | 0.44 | 10.28 | 10.28 | 0.44 | 10.28 | 10.28 | 0.44 | 12.72 | 12.72 | 0.97 | 12.18 | 12.18 | 1.07 | 11.65 | 11.65 | 1.17 | 11.07 | 11.07 | 1.26 |
| 47.6 | 15 | | 12.32 | 10.10 | 0.50 | 12.32 | 10.10 | 0.50 | 12.32 | 10.10 | 0.51 | 12.32 | 10.10 | 0.52 | 12.32 | 10.10 | 0.54 | 12.32 | 10.10 | 0.53 | 12.32 | 10.10 | 0.51 | 12.32 | 10.10 | 0.50 | 12.32 | 10.10 | 0.50 | 14.77 | 11.47 | 0.98 | 14.26 | 11.18 | 1.08 | 13.76 | 10.88 | 1.18 | 13.25 | 10.57 | 1.27 |
| 54.3 | 16 | | 13.33 | 9.73 | 0.54 | 13.33 | 9.73 | 0.54 | 13.33 | 9.73 | 0.56 | 13.33 | 9.73 | 0.57 | 13.33 | 9.73 | 0.58 | 13.33 | 9.73 | 0.57 | 13.33 | 9.73 | 0.55 | 13.33 | 9.73 | 0.53 | 13.33 | 9.73 | 0.54 | 15.50 | 10.47 | 0.98 | 14.93 | 10.25 | 1.08 | 14.44 | 10.03 | 1.18 | 13.86 | 9.69 | 1.28 |
| 21.2 | 12 | 24 | 9.26 | 9.26 | 0.36 | 9.26 | 9.26 | 0.37 | 9.26 | 9.26 | 0.38 | 9.26 | 9.26 | 0.39 | 9.26 | 9.26 | 0.40 | 9.26 | 9.26 | 0.41 | 9.26 | 9.26 | 0.41 | 9.26 | 9.26 | 0.41 | 9.26 | 9.26 | 0.41 | 11.83 | 11.83 | 0.97 | 11.28 | 11.28 | 1.07 | 10.72 | 10.72 | 1.17 | 10.17 | 10.17 | 1.25 |
| 32.1 | 14 | | 11.30 | 11.30 | 0.45 | 11.30 | 11.30 | 0.45 | 11.30 | 11.30 | 0.47 | 11.30 | 11.30 | 0.48 | 11.30 | 11.30 | 0.49 | 11.30 | 11.30 | 0.49 | 11.30 | 11.30 | 0.48 | 11.30 | 11.30 | 0.47 | 11.30 | 11.30 | 0.47 | 13.75 | 13.75 | 0.97 | 13.40 | 13.40 | 1.07 | 13.04 | 13.04 | 1.17 | 12.68 | 12.68 | 1.27 |
| 43.8 | 16 | | 13.33 | 11.20 | 0.54 | 13.33 | 11.20 | 0.54 | 13.33 | 11.20 | 0.56 | 13.33 | 11.20 | 0.57 | 13.33 | 11.20 | 0.58 | 13.33 | 11.20 | 0.57 | 13.33 | 11.20 | 0.55 | 13.33 | 11.20 | 0.53 | 13.33 | 11.20 | 0.54 | 15.50 | 12.14 | 0.98 | 14.93 | 11.86 | 1.08 | 14.44 | 11.62 | 1.18 | 13.86 | 11.30 | 1.28 |
| 50.0 | 17 | | 13.72 | 10.15 | 0.55 | 13.72 | 10.15 | 0.56 | 13.72 | 10.15 | 0.57 | 13.72 | 10.15 | 0.58 | 13.72 | 10.15 | 0.59 | 13.72 | 10.15 | 0.58 | 13.72 | 10.15 | 0.58 | 13.72 | 10.15 | 0.58 | 13.72 | 10.15 | 0.58 | 16.23 | 11.78 | 0.98 | 15.53 | 11.43 | 1.08 | 14.83 | 11.06 | 1.18 | 14.14 | 10.63 | 1.29 |
| 21.5 | 14 | 27 | 11.30 | 11.30 | 0.45 | 11.30 | 11.30 | 0.45 | 11.30 | 11.30 | 0.47 | 11.30 | 11.30 | 0.48 | 11.30 | 11.30 | 0.49 | 11.30 | 11.30 | 0.49 | 11.30 | 11.30 | 0.48 | 11.30 | 11.30 | 0.47 | 11.30 | 11.30 | 0.47 | 13.75 | 13.75 | 0.97 | 13.40 | 13.40 | 1.07 | 13.04 | 13.04 | 1.17 | 12.68 | 12.68 | 1.27 |
| 26.3 | 15 | | 12.32 | 12.32 | 0.50 | 12.32 | 12.32 | 0.50 | 12.32 | 12.32 | 0.51 | 12.32 | 12.32 | 0.52 | 12.32 | 12.32 | 0.54 | 12.32 | 12.32 | 0.53 | 12.32 | 12.32 | 0.51 | 12.32 | 12.32 | 0.50 | 12.32 | 12.32 | 0.50 | 14.77 | 14.77 | 0.98 | 14.26 | 14.26 | 1.08 | 13.76 | 13.76 | 1.18 | 13.25 | 13.25 | 1.27 |
| 31.3 | 16 | | 13.33 | 13.33 | 0.54 | 13.33 | 13.33 | 0.54 | 13.33 | 13.33 | 0.56 | 13.33 | 13.33 | 0.57 | 13.33 | 13.33 | 0.58 | 13.33 | 13.33 | 0.57 | 13.33 | 13.33 | 0.55 | 13.33 | 13.33 | 0.53 | 13.33 | 13.33 | 0.54 | 15.50 | 15.50 | 0.98 | 14.93 | 14.93 | 1.08 | 14.44 | 14.44 | 1.18 | 13.86 | 13.86 | 1.28 |

| Pair | FCAHG140H | FCAG140B | FVA140A | FHA140A | FBA140A |
|---|---|---|---|---|---|
| Cooling | 3.64 | 4.29 | 4.42 | 4.31 | 4.69 |

| Twin | FCAHG71Hx2 | FCAG71Bx2 | FHA71Ax2 | FUA71Ax2 | FAA71Ax2 | FBA71Ax2 |
|---|---|---|---|---|---|---|
| Cooling | 2.89 | 3.15 | 3.01 | 3.02 | 3.27 | 2.97 |

| Triple | FCAG50Bx3 | FHA50Ax3 | FFA50Ax3 | FDXM50Fx3 | FBA50Ax3 |
|---|---|---|---|---|---|
| Cooling | 2.88 | 3.14 | 3.37 | 2.65 | 3.06 |

| Double twin | FCAG35Bx4 | FHA35Ax4 | FFA35Ax4 | FDXM35Fx4 | FBA35Ax4 |
|---|---|---|---|---|---|
| Cooling | 3.08 | 2.73 | 3.04 | 2.87 | 3.32 |

3D125187A

Notes

1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. The capacities are based on the following conditions:
   - Outdoor air: ·85% RH·
   - Corresponding refrigerant piping length: ·5.0· m Cooling
   - Level difference: ·0·m
3. For ·EDP· applications, it is recommended to use outdoor unit setting ·2-57-2·.
4. ·CPI· is a percentage value compared to the rated value which is ·1.00·.
5. The error rate for this value is less than ·5·% and depends on the indoor unit type.
6. The rated power input (PI) for each model is mentioned in the table below.

Symbols

TC: Maximum total cooling capacity [kW]
SHC: Sensible heat capacity [kW]
CPI : Coefficient of the power input
PI : Power input [kW] Compressor + indoor and outdoor fan motors
RH : Relative humidity [%]

For all capacity tables refer to the databook:

RZAG-NV1 RZAG-NY1



Why Daikin technical cooling
Capacity tables
Benefits
Installation guidelines
Application examples
Specifications

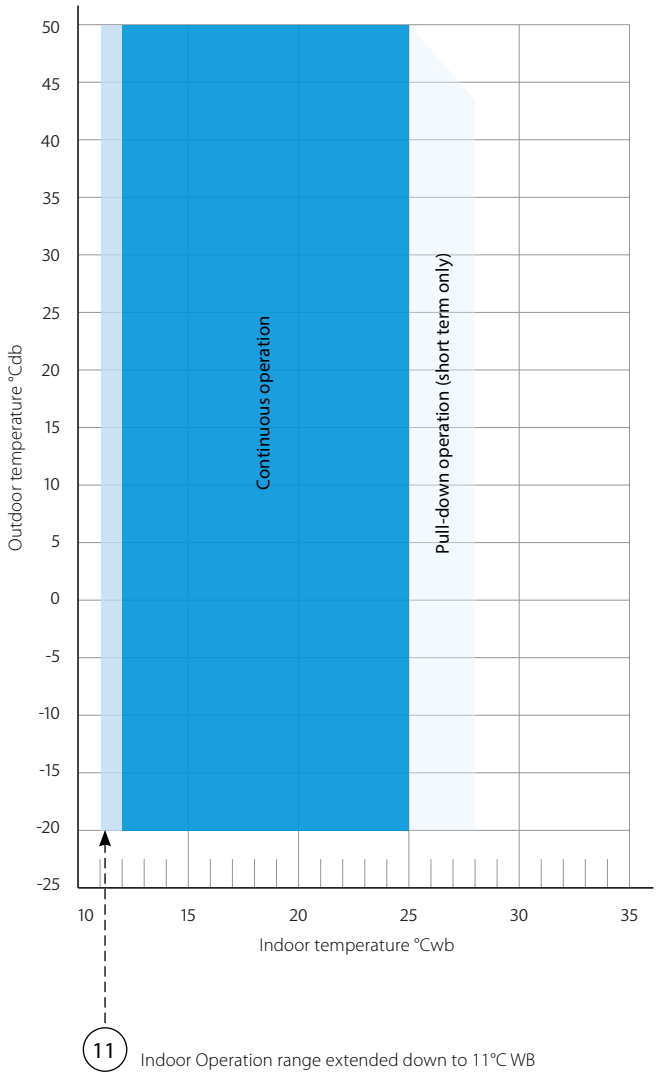
# Efficient cooling

## Wide operating range

Leader in air conditioning

Because infrastructure cooling systems must perform continuous cooling operations and may be required to run in demanding outdoor conditions, a flexible operating temperature map is critical. Daikin Sky Air infrastructure cooling systems offer reliable performance during extreme conditions.

- ☑ Outdoor cooling operation down to -20°C Ta
- ☑ Continuous cooling operation in outdoor temperatures as high as 52°C
- ☑ Extended indoor operation range from 12°C to 11°C Wet Bulb allows the indoor unit to operate at lower humidity




## Cooling operation

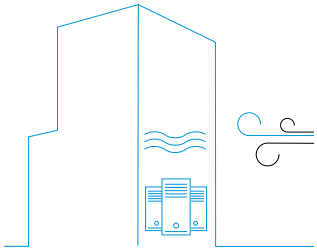
Infrastructure cooling applications have minimal relative humidity, which results in a low indoor Wet Bulb temperature. The units may operate close to, or just outside, their official operating range. Sky Air Seasonal Smart can be set to widen the indoor cooling operation range down to 11°C Wet Bulb temperature.

## Typical IT or infrastructure room

Set point: 20°C
Humidity: 30% RH
Indoor Wet bulb temperature: 11°CWB
By setting the controller from factory default 16 (26) - 2 - 01 to infrastructure cooling 16 (26) - 2 - 03, the indoor operation range increases from 12°C to 11°C Wet Bulb.

# Free cooling

## Lower energy consumption



Ensuring uptime for infrastructure cooling applications comes at the cost of higher energy consumption than in comfort cooling applications. Daikin Sky Air infrastructure cooling systems offer you a leading solution for year-round efficiency, while decreasing your running costs.

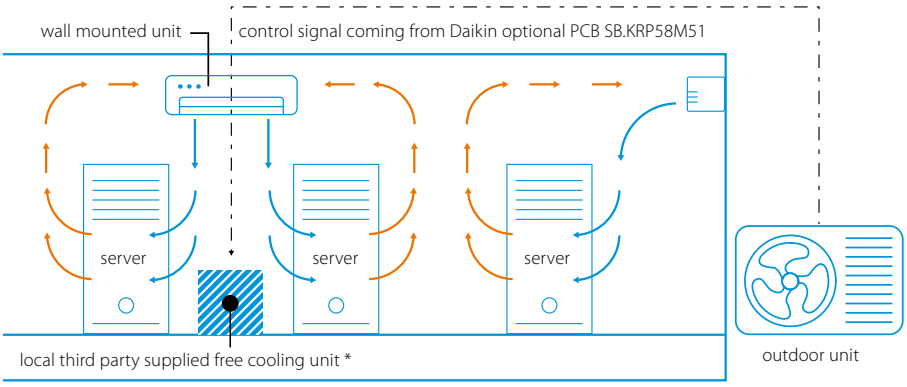
The energy savings potential of operating in free cooling mode in certain climates is an attractive proposition for continuous cooling environments.

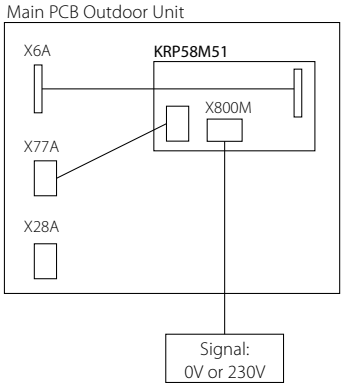
**Operating in free cooling mode saves energy by using outdoor air during colder months, which allows refrigerant-based cooling components such as compressors to be shut off or to operate at a reduced capacity.**

**Daikin Sky Air RZAG-N series** provides a control signal that is intelligently based on:

- the indoor set temperature
- the actual indoor temperature
- the outdoor temperature

## Typical Server room installation with a free cooling unit




* The free cooling unit should be installed opposite to the indoor unit, in such a way that there is no recirculation of cold air blowing from the free cooling unit.

With the free cooling 230 V signal supplied through optional control board SB.KRP58M51 **available only for RZAG-N series outdoor systems**, you can control a field supplied free cooling unit.

**It is important to make setting 2-53-02 in case of the use of free cooling. This to guarantee that the free cooling will start up before the outdoor unit.**

## Energy efficiency benefits from free cooling

**Estimated Annual Savings Potential for a typical small IT room operating 24/7/365**
Boosted capacity indoor unit: FHA100, outdoor unit: RZAG

- Cooling load: 6.8 kW
- Set point: 20°C
- RH indoor: 30%
- Free cooling if $\Delta T_a > 5°C$

$\Delta T_a$ = difference between indoor and outdoor temperature

| | Estimated annual savings (euro) | | | | |
|---|---|---|---|---|---|
| **Air flow ($m^3/h$)** | United Kingdom London | Germany Berlin | Poland Warsaw | Austria Vienna | Czech Republic Prague |
| 500 | 212 | 275 | 158 | 142 | 185 |
| 1000 | 376 | 458 | 267 | 256 | 318 |
| 1500 | 436 | 516 | 307 | 313 | 370 |
| 2000 | 464 | 550 | 325 | 342 | 392 |

The savings depend greatly on climate, ($\Delta T_a$), air flow volume and local electricity prices

# Flexible control

Flexible and reliable operation of the IT, server or data support infrastructure requires a scalable and redundant cooling infrastructure. Operators of infrastructure cooling environments also need easy means of controlling and pre-programming the cooling systems. Daikin Sky Air solution for infrastructure cooling offers control choices to address the demanding operational needs.

## Standard integrated duty rotation and standby control

**Standard control solution for most installations**

1. Add **redundancy** for critical IT applications
2. Increased **lifetime** of the sytem by altering operating units
3. **Back-up** operation: If one unit fails, the other unit will automatically start.

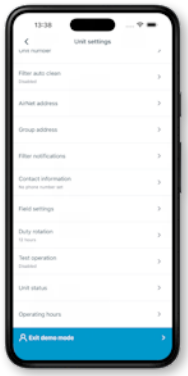
- Duty rotation: After a certain period* of time, the operating unit will go in standby and the standby unit will take over.
- Possibility to lock on/off and lock the mode button on the Remote Controller
- Possibility to limit the setpoint range

* Rotation interval can be set from 6h, 12h, 24h, 72h, 96h, weekly

### Easy duty rotation in just 2 simple steps

**1. Turn on Duty rotation**

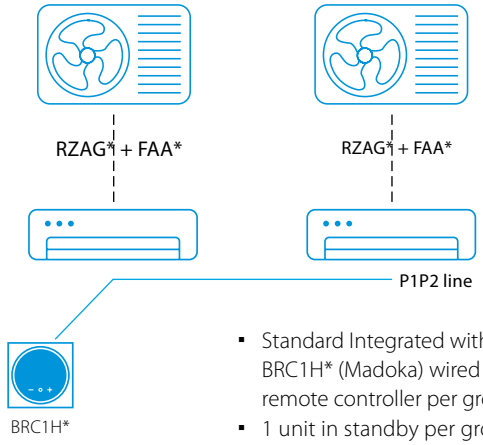
Enable Duty rotation to let the system alternate indoor units automatically.



**2. Choose a cycle time**

Select a cycle time that fits your operation – from 6 hours to 168 hours.

### Integrated Duty/Standby control



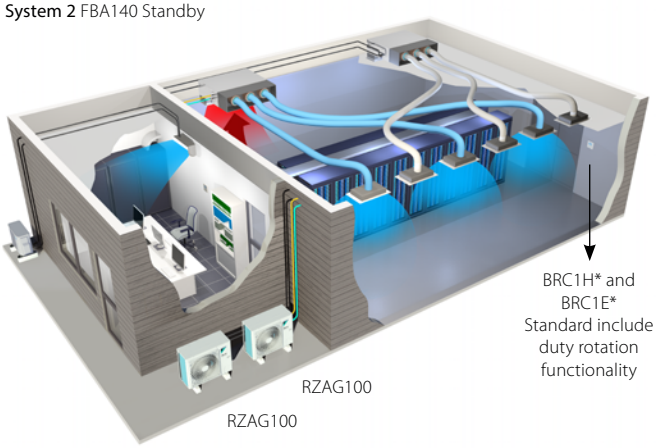

- Standard Integrated within BRC1K* (Madoka Plus) or BRC1H* (Madoka) wired remote controller [1 wired remote controller per group of max 16 systems]
- 1 unit in standby per group of max 16

| Typical infrastructure cooling units | Modelname | |
|---|---|---|
| Wired remote control | BRC1H* or BRC1K* | |
| Conceiled ceiling system | FBA* | |
| Wall mounted system | FAA* |  |
| Ceiling suspended system | FHA* | |

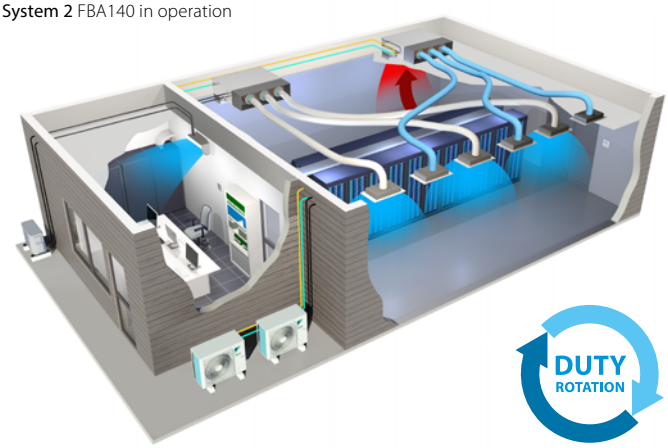
Duty rotation available on all Sky Air indoor units.
Refer to combination table for detailed information on page 6.

### Application Example

**System 1** FBA140 In Operation
**System 2** FBA140 Standby




**System 1** FBA140 standby
**System 2** FBA140 in operation

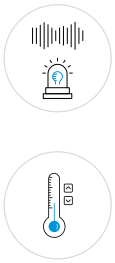


# Maximum reliability and flexibility for continuous operation

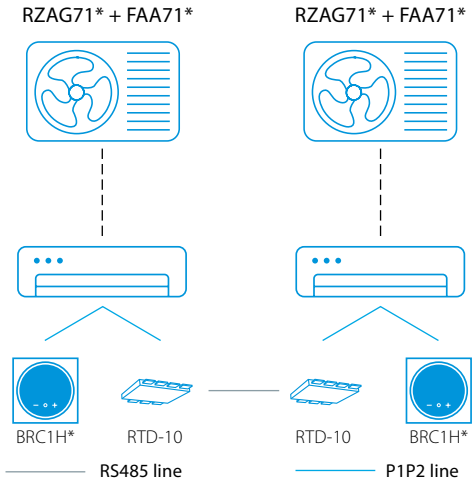
## Advanced and scalable control

**Modbus gateway RTD-10 option**

- **Automatic control** of indoor temperature
- **Guaranteed cooling operation mode**
- **Backup operation:**
  - If one unit fails, the other unit will automatically take over
  - When the temperature overshoots the standby unit will start operating
- **Duty rotation:** After a certain period of time, the operating unit will go into standby mode and the standby unit will take over
- **Rotation interval** can be set for 1 day, 1 week, 2 weeks or 4 weeks
- **Remote alarm signal**



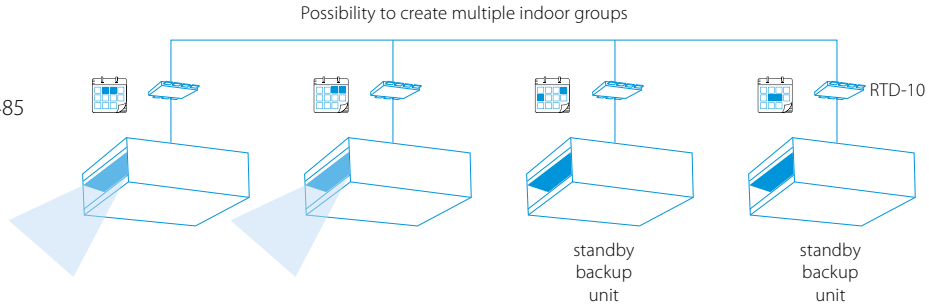
**Wiring scheme**




## Example: 2 operating units, 2 standby units

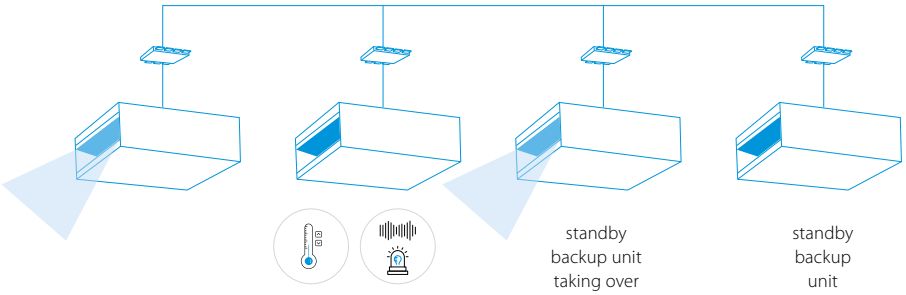
**Dedicated duty / standby control**

- RTD-10
  [1 gateway for 1 indoor unit (group)]
- Up to 8 RTD-10 units can be combined in RS485 network
- 1 or 2 standby units per group



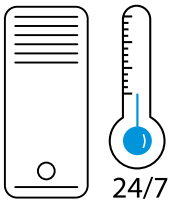

**Backup operation**

The failure of a unit initiates a safety procedure where the standby backup unit takes over automatically and a repair alarm is sent.



# Controls - main functions overview

## Infrastructure cooling




| | Unit | Integrating | Advanced |
|---|---|---|---|
| | | | |
| | BRC1H52W7/S7/K7 and BRC1KPD51W/K | RTD-10 | DCM601B51 |
| | 1 remote controller for 1 indoor unit (group) (2) | 1 gateway for 1 indoor unit (group)<br>Up to 8 gateways can be linked together | 1 iTM for 64 indoor unit(s) (groups) (1) |
| Automatic control of A/C | • | • | • |
| Back-up operation | • | • | • |
| Duty rotation | • | • | • |
| Limit control possibilities in the technical cooling room | • | • | • |
| If room temperature above max., then show alarm & start standby unit. | | • | • |
| If an error occurs, an alarm will be shown. | • | • | • |
| If an error occurs, activate an alarm output | Via KRP2/4A option (3) | • | Via WAGO I/O |

(1) 7 iTM plus adapters (DGE601A52 and DGE601A53) can be added to have 512 indoor groups and 80 outdoor (systems) | (2) Infrastructure cooling functions only compatible with indoor units connected to RZQG*/RZAG* outdoor units. | (3) See option list of indoor unit

# Dedicated field settings

## Adapted to the specific needs of infrastructure cooling

### Overview of all settings for RZAG-N* series

| | Function | Description | Setting | Where | Note |
|---|---|---|---|---|---|
| Field settings | **Infrastructure Cooling Setting (EDP)** | Low Humidity application | 2-5-2 | Outdoor unit - PCB setting | Continuous cooling operation for low humidity applications |
| | **EDP Setting + Avoid unit OFF time** | Slow Start + Increased Hysteresis | 16(26)-7-02 | Indoor Unit - Remote Controller | |
| | **Maximize airflow** | Set airflow high + ceiling soiling prevention | 13(23)-0-03 | Indoor Unit - Remote Controller | All indoor units except FAA |
| | **Free cooling** | To set optimal unit start in free cooling mode | 2-58-2 | Outdoor unit – PCB setting | |
| | **Quick commissioning setting** | Combined setting of 2-5-2 + 16(26)-7-02 + 2-58-2 | 2-57-2 | Outdoor unit - PCB setting | |

| | Function | Option | Note |
|---|---|---|---|
| Options | Backup operation, Duty Rotation, Additional unit comes in to deliver capacity, Visual Alarm Signal, I/O BMS connection - Forced On/Off operation + Alarm Monitoring | RTD-10 | High end solution up to 8 indoors (1 per indoor unit) |
| | Backup operation, Duty Rotation, I/O BMS connection - Forced On/Off operation, Sequential start control, Minimum Guaranteed units for Operation | DTA113B51 | Basic solution up to 4 indoors (1 per group of 4 indoors) |
| | Free cooling | SB.KRP58M52 | |
| | Above-mentioned+ mini-BMS connection and energy management | DCM601B51 | iTM solution |

## Continuous cooling operation

**Avoid downtimes with specific system settings:**
In low humidity environments indoor unit freeze-up is less likely. The setting 2-5-2 on **RZAG-N** series allows you to boost the indoor capacity and enables quick restart conditions in case of freeze-up prevention.

For **RZAG-B** series this setting is automated and is activated under -10°C outside temperature. This enables almost continuous heating and restart in case of freeze-up prevention.

Daikin recommends to enable **2-57-2** for infrastructure cooling applications

## Built-in settings for improved operational reliability

**When using standard AC systems for infrastructure cooling, frequent start / stop cycles of the compressor can occur due to:**

1. **incorrect selection / sizing of equipment**
   The typical solution:
   - oversizing the air conditioning equipment to allow flexibility in server room occupancy
   - oversizing by building in some spare, 'safety' capacity
   - using rules of thumb as calculation method

2. **installation/application related difficulties**
   - restricted air circulation
   - blockage of air distribution from top blow server racks

**Compressor and thermostat control are therefore optimized for infrastructure cooling**
**This settting available on RZAG-N series allows the outdoor system to gradually start.** This prevents the outdoor system from going into thermo-off while still in start-up mode. This setting limits frequent on/off operation. By lowering the frequency of the compressor (and subsequently the capacity), the system modulates and avoids early thermo-off 16(26)-7-02 (setting).

ON/OFF differential prevents the output from making fast, continuous switches. Using the 16-7-02 setting activates a larger thermo on/off hysteresis to **enhance continuous operation.**

- 16 (26)-7-01: DEFAULT (Comfort cooling)
- 16 (26)-7-02: enhanced slow start + increased hysteresis
- This setting must always be combined with the EDP setting 2-5-2.

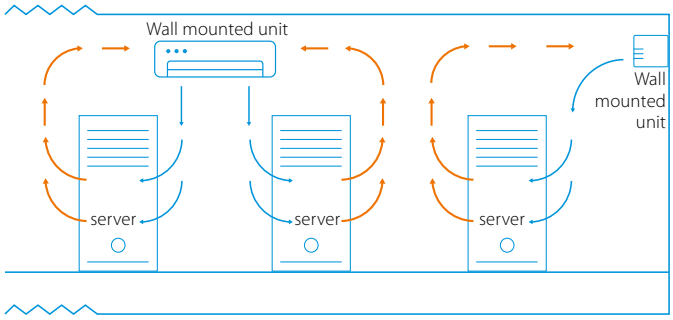
# Best practices for planning and design

## how to set-up cooling systems in server rooms

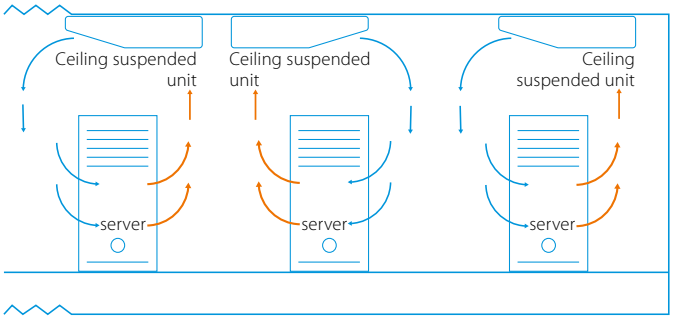
### Flat floor or double floor not used for air distribution

Hot-isle / Cold-isle principles must be closely adhered to and the server orientation monitored.

**With wall mounted units**

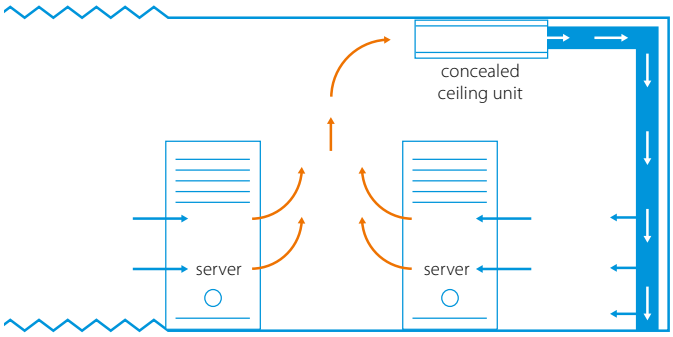



**With ceiling suspended units**




Install the ceiling suspended units in the opposite direction of the rack orientation

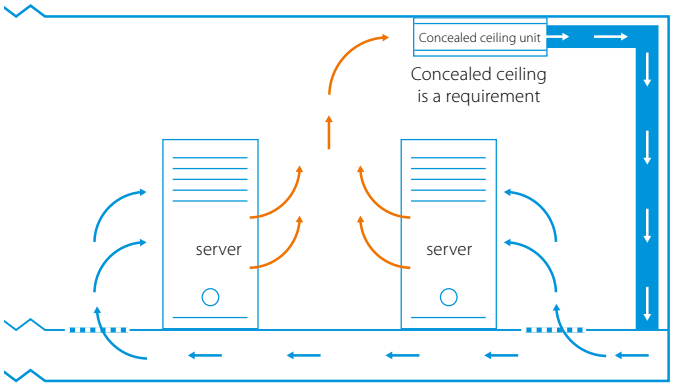
**With concealed ceiling units**




Use concealed ceiling units to distribute cold air where needed (down and to the suction side of the servers).

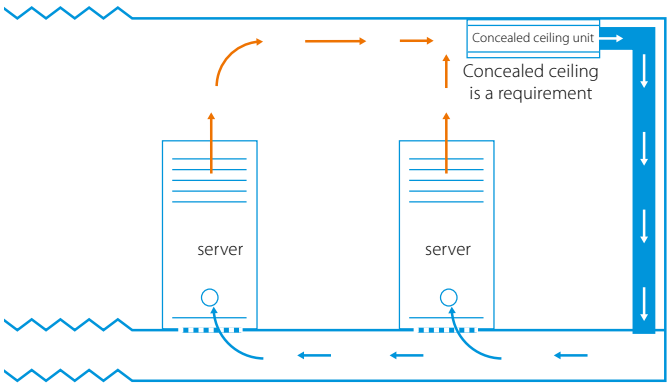
### Flat floor or double floor used for air distribution

**Hot-isle / Cold-isle set-up**




Best match for double floor server rooms with concealed ceiling units

**Throughflow racks**



# Best practice for cassette units

## how to apply cassette type cooling systems in laboratories and other technical facilities

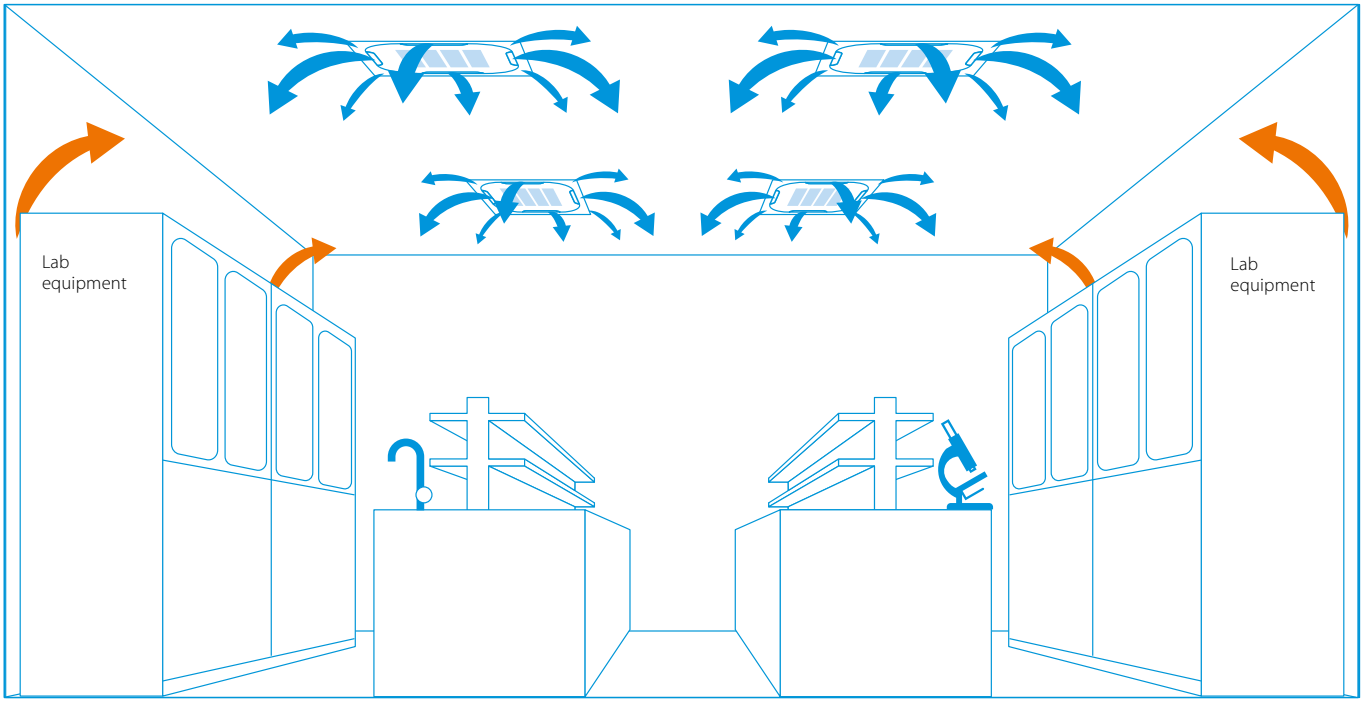
### Flat floor or double floor not used for air distribution

Cassette type systems should only be used for specific room configurations where central ceiling installation is most suited for hot aisle/ cold aisle arrangements.

In a laboratory environment for example, when the cassette system is placed centrally on the ceiling and above the aisles, it will allow maximum uniform air distribution around the room.

**It is not recommended to install cassette units right above a server or machine.**

With cassette units



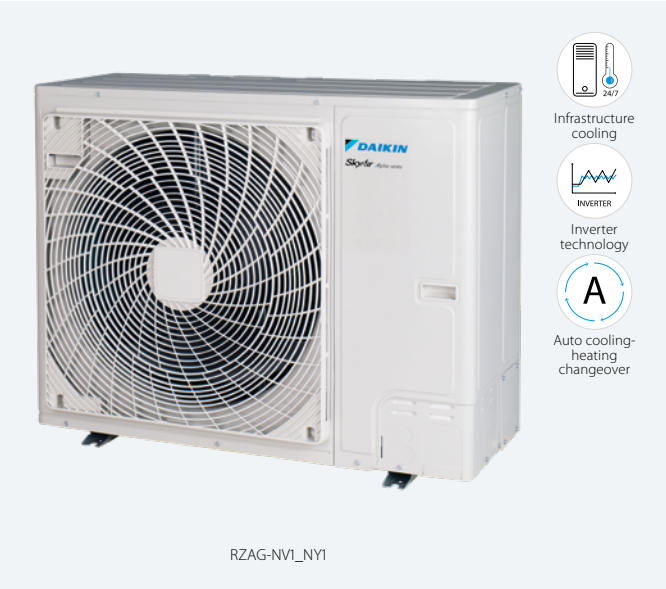
R-32

SkyAir Alpha-series BLUEVOLUTION

# Sky Air Alpha-series

## Industry leading technology for commercial applications and even for technical rooms

- Unique, low-height single fan range
- Compact dimensions allow almost unoticeable installation
- Market-leading serviceability and handling, thanks to wide access area, 7-segment display and additional handle
- The perfect balance in efficiency and comfort thanks to Variable Refrigerant Temperature: top seasonal efficiency throughout most of the year and quick reaction speed on the hottest days.
- Suits high sensible, infrastructure cooling applications
- Replace existing systems with R-32 technology without needing to replace the piping
- Guarantees operation in both heating and cooling mode down to -20°C
- Refrigerant cooled PCB guarantees reliable cooling, as it is not influenced by ambient temperature.
- Maximum piping length up to 85m (50m for RZAG-B)
- Outdoor units for pair, twin, triple, double twin application
- Combines with EKLN-A low sound enclosure



RZAG-NV1_NY1

# Infrastructure cooling combination table

| | | NEW FTXM-A | | | | FAA-B | | FHA-A(9) | | | | | | | FBA-A(9) | | | | | | | FDXM-F9 | | | FUA-A | | | FNA-A9 | | | FVA-A | | | | FFA-A9 | | | FCAHG-H | | | | FCAG-B | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| capacity class | | 35 | 50 | 60 | 71 | 71 | 100 | 35 | 50 | 60 | 71 | 100 | 125 | 140 | 35 | 50 | 60 | 71 | 100 | 125 | 140 | 35 | 50 | 60 | 71 | 100 | 125 | 35 | 50 | 60 | 71 | 100 | 125 | 140 | 35 | 50 | 60 | 71 | 100 | 125 | 140 | 35 | 50 | 60 | 71 | 100 | 125 | 140 |
| RZAG35B | | | P | | | | | | P | | | | | | | P | | | | | | | | P | | | | | P | | | | | | | | P | | | | | | | P | | | | | |
| RZAG50B | | | | P | | | | | | P | | | | | | | P | | | | | | | | P | | | | | | P | | | | | | | P | | | | | | | | P | | | |
| RZAG60AB | | | | | P | | | | | | P | | | | | | | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | P | | | |
| RZAG71NV1 | RZAG71NY1 | | | | | | P | 3 | 2 | | | P | | | 3 | 2 | | | P | | | 3 | 2 | | | P | | 3 | 2 | | | P | | | 3 | 2 | | | P | | | 3 | 2 | | | P | | |
| RZAG100NV1 | RZAG100NY1 | | | | | 2 | | 4 | 3 | | 2 | | | P | 4 | 3 | | 2 | | | P | 4 | 3 | | 2 | | | 4 | 3 | | | | | P | 4 | 3 | | 2 | | | P | 4 | 3 | | 2 | | | P |
| RZAG125NV1 | RZAG125NY1 | | | | | 2 | | 4 | 3 | | 2 | | | P | 4 | 3 | | 2 | | | P | 4 | 3 | | 2 | | | 4 | 3 | | | | | P | 4 | 3 | | 2 | | | P | 4 | 3 | | 2 | | | P |
| RZAG140NV1 | RZAG140NY1 | | | | | 2 | | 4 | 3 | | 2 | | | P | 4 | 3 | | 2 | | | P | 4 | 3 | | 2 | | | 4 | 3 | | | | | P | 4 | 3 | | 2 | | | P | 4 | 3 | | 2 | | | P |

P = Pair, 2 = Twin, 3 = Triple, 4 = Double twin; For more information on infrastructure cooling options refer to infrastructure cooling catalogue.

RZAG-B RZAG-NV1 RZAG-NY1

| Outdoor unit | | | | RZAG | 35B | 50B | 60B | 71NV1 | 100NV1 | 125NV1 | 140NV1 | 71NY1 | 100NY1 | 125NY1 | 140NY1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 734x870x373 | | | 870x1,100x460 | | | | | | | |
| Weight | Unit | | | kg | 52 | | | 81 | 85 | 95 | | 81 | 85 | 94 | |
| Sound power level | Cooling | | | dBA | 62.0 | 63.0 | 64.0 | 64 | 66 | 69 | 70 | 64 | 66 | 69 | 70 |
| | Heating | | | dBA | 62.0 | 63.0 | 64.0 | - | | 68(1) | 71(1) | - | | 68(1) | 71(1) |
| Sound pressure level | Cooling | Nom. | | dBA | 48.0 | 49.0 | 50.0 | 46 | 47 | 49 | 50 | 46 | 47 | 49 | 50 |
| | Heating | Nom. | | dBA | 48.0 | 49.0 | 50.0 | 48 | 50 | 52 | | 48 | 50 | 52 | |
| Operation range | Cooling | Ambient | Min.~Max. | °CDB | -20~52 | | | -20~52 | | | | | | | |
| | Heating | Ambient | Min.~Max. | °CWB | -21~18 | | | -20~18 | | | | | | | |
| Refrigerant | Type/GWP | | | | R-32/675.0 | | | R-32/675 | | | | | | | |
| | Charge | | | kg/TCO2Eq | 1.55/1.05 | | | 3.20/2.16 | | 3.70/2.50 | | 3.20/2.16 | | 3.70/2.50 | |
| Piping connections | Liquid/Gas OD | | | mm | 6.35/9.52 | 6.35/12.7 | | 9.52/15.9 | | | | | | | |
| | Piping length | OU - IU | Max. | m | 50 | | | 55 | 85 | | | 55 | 85 | | |
| | | System | Equivalent | m | - | | | 75 | 100 | | | 75 | 100 | | |
| | | | Chargeless | m | 30 | | | 40 | | | | | | | |
| | Level difference | IU - OU | Max. | m | 30.0 | | | 30 | | | | | | | |
| | Additional refrigerant charge | | | kg/m | 0.02 (for piping length exceeding 30m) | | | See installation manual | | | | | | | |
| Power supply | Phase/Frequency/Voltage | | | Hz/V | 1~/50/220-240 | | | | | | | 3~/50/380-415 | | | |
| Current - 50Hz | Maximum fuse amps (MFA) | | | A | - | | | 20 | 32 | | | 16 | | | |

(1)According to ENER Lot 21 | Contains fluorinated greenhouse gases

FTXM-A

# Wall mounted unit

For rooms lacking false ceilings or free floor space

- Suitable for air circulation for infrastructure cooling rooms (air suction is located at the top, where the hot air tends to be)
- No floor occupancy
- Maintenance operations are easily controlled from the front of the unit.

FTXM-A

FTXM-A

| Indoor unit | | | | FTXM | 50A | 60A | 71A |
|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 298x804x252 | 298x997x292 | |
| Weight | Unit | | | kg | 11.5 | 14.5 | |
| Air filter | Type | | | | Removable / washable | | |
| Fan | Air flow rate | Cooling | Silent operation/ Low/Medium/High | $m^3$/min | 5.9/7.8/10.4/12.7 | 8.6/11.2/13.4/15.6 | 9.3/11.4/13.6/15.8 |
| | | Heating | Silent operation/ Low/Medium/High | $m^3$/min | 6.9/8.6/11.5/14.5 | 10.5/11.8/14.6/15.9 | 11.2/12.3/15.3/17.3 |
| Sound power level | Cooling | | | dBA | 60 | | |
| | Heating | | | dBA | 60 | 59 | 61 |
| Sound pressure level | Cooling | Silent operation/Low/High | | dBA | 27/33/46 | 30/37/46 | 32/38/47 |
| | Heating | Silent operation/Low/High | | dBA | 31/34/46 | 33/36/45 | 34/37/46 |
| Control systems | Infrared remote control | | | | ARC466A86 | | |
| | Wired remote control | | | | BRC073A1 | | |

FAA-B

# Wall mounted unit

For rooms with no false ceilings nor free floor space

- Suitable for air circulation for infrastructure cooling rooms (air suction is located at the top, where the hot air tends to be)
- Long throw of air for optimal coverage
- No floor occupancy
- Air is equally distributed upwards and downwards due to 5 different discharge angles that are programmable via remote control
- Maintenance operations are easily controlled from the front of the unit.

FAA71B

BRC1KPD51W/K, BRP069C81

FAA-B

| Indoor unit | | | | FAA | 71B | 100B |
|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 290x1,050x269 | 340x1,200x262 |
| Weight | Unit | | | kg | 14.0 | 18 |
| Fan | Air flow rate | Cooling | Low/Medium/High | $m^3$/min | 12.1/13.4/16.2 | 18.7/21.1/23.0 |
| | | Heating | Low/Medium/High | $m^3$/min | 12.7/14.2/16.9 | 18.7/20.9/23.0 |
| Sound power level | Cooling | | | dBA | 61.0 | 65.0 |
| | Heating | | | dBA | 61.0 | 65.0 |
| Sound pressure level | Cooling | Low/Medium/High | | dBA | 40.0/42.0/45.0 | 41.0/45.0/49.0 |
| | Heating | Low/Medium/High | | dBA | 40.0/42.0/45.0 | 41.0/45.0/49.0 |
| Power supply | Phase/Frequency/Voltage | | | Hz/V | 1~/50/220-240 | |
| Control systems | Wired remote control | | | | BRC1KPD51K/W/81W, BRC1H52W/K/S7 | |
| | Infrared remote control | | | | BRC7EA631, BRC7EA632 | |
| | Onecta app | | | | BRP069C81 | |

FHA-A(9)

# Ceiling suspended unit

For wide rooms with no false ceilings nor free floor space

- Perfect air distribution for wide rooms due to the Coanda effect: up to 100° discharge angle
- Rooms with ceilings up to 3.8m can be cooled easily and without capacity loss
- No floor occupancy
- Can be mounted in corners and narrow spaces, because it only requires 30mm of lateral service space

FHA-A(9)

| Indoor unit | | | | FHA | 35A9 | 50A9 | 60A9 | 71A9 | 100A | 140A |
|---|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 235x960x690 | | 235x1,270x690 | | 235x1,590x690 | |
| Weight | Unit | | | kg | 26 | 27 | 32 | 34 | 41 | |
| Air filter | Type | | | | Resinnet | | | | | |
| Fan | Air flow rate | Cooling | Low/Medium/High | $m^3$/min | 10.0/11.5/14.0 | 10.0/12.0/15.0 | 11.5/15.0/19.5 | 14.0/17.0/20.5 | 20.0/24.0/28.0 | 24.0/29.0/34.0 |
| | | Heating | Low/Medium/High | $m^3$/min | 10.0/11.5/14.0 | 10.0/12.0/15.0 | 11.5/15.0/19.5 | 14.0/17.0/20.5 | 20.0/24.0/28.0 | 24.0/29.0/34.0 |
| Sound power level | Cooling | | | dBA | 53.0 | 54.0 | | 55.0 | 60.0 | 64.0 |
| | Heating | | | dBA | 53.0 | 54.0 | | 55.0 | 60.0 | 64.0 |
| Sound pressure level | Cooling | Low/High | | dBA | 31.0/36.0 | 32.0/37.0 | 33.0/37.0 | 34.0/38.0 | 34.0/42.0 | 38.0/46.0 |
| | Heating | Nom./High | | dBA | 34.0/36.0 | 35.0/37.0 | | 36.0/38.0 | 38.0/42.0 | 42.0/46.0 |
| Power supply | Phase/Frequency/Voltage | | | Hz/V | 1~/50/60/220-240/220 | | | | | |
| Piping connections | Drain | | | | VP20 | | | | | |
| Control systems | Wired remote control | | | | BRC1KPD51K/W/81W, BRC1H52W/K/S7 | | | | | |
| | Infrared remote control | | | | BRC7EA631, BRC7EA632 | | | | | |
| | Onecta app | | | | BRP069C81 | | | | | |

FBA-A(9)

# Concealed ceiling unit with medium ESP

Slimmest yet most powerful medium static pressure unit on the market

- Top efficiency in market
- Compact unit can easily be mounted in a ceiling of only 285mm, leaving only suction and discharge grilles visible
- Sound levels lower than 29 dBA
- Medium external static pressure up to 150Pa allows the use of flexible ducts with varying lengths
- Flexible installation, the air suction direction can be altered from rear to bottom suction
- Standard built-in drain pump increases flexibility and installation speed
- No floor occupancy

FBA-A(9)

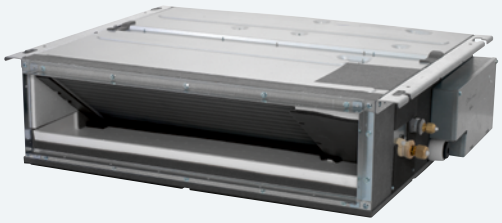
| Indoor unit | | | | FBA | 35A9 | 50A9 | 60A9 | 71A9 | 100A | 140A |
|---|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 245x700x800 | | 245x1,000x800 | | 245x1,400x800 | |
| Weight | Unit | | | kg | 28.0 | | 35.0 | | 46.0 | |
| Air filter | Type | | | | Resinnet | | | | | |
| Fan | Air flow rate | Cooling | Low/Medium/High | $m^3$/min | 10.5/12.5/15.0 | | 12.5/15.0/18.0 | | 23.0/26.0/29.0 | 23.5/29.0/34.0 |
| | | Heating | Low/Medium/High | $m^3$/min | 10.5/12.5/15.0 | | 12.5/15.0/18.0 | | 23.0/26.0/29.0 | 23.5/29.0/34.0 |
| | External static pressure | Nom./High | | Pa | 30/150 | | | | 40/150 | 50/150 |
| Sound power level | Cooling | | | dBA | 60.0 | | 56.0 | | 58.0 | 62.0 |
| Sound pressure level | Cooling | Low/High | | dBA | 29.0/35.0 | | 25.0/30.0 | | 30.0/34.0 | 32.0/37.0 |
| | Heating | Low/High | | dBA | 29.0/37.0 | | 25.0/31.0 | | 30.0/36.0 | 32.0/38.0 |
| Power supply | Phase/Frequency/Voltage | | | Hz/V | 1~/50/60/220-240/220 | | | | | |
| Piping connections | Drain | | | | VP20 (I.D. 20/O.D. 26) | | | | | |
| Drain-up height | | | | mm | 625 | | | | | |
| Control systems | Wired remote control | | | | BRC1KPD51K/W/81W, BRC1H52W/K/S7 | | | | | |
| | Infrared remote control | | | | BRC7EA631, BRC7EA632 | | | | | |
| | Onecta app | | | | BRP069C81 | | | | | |

FDXM-F9

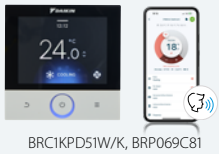
# Concealed ceiling unit

## Compact concealed ceiling unit, with a height of only 200mm

- Compact dimensions, can easily be mounted in a ceiling void of only 240mm
- Medium external static pressure up to 40Pa facilitates unit use with flexible ducts of varying lengths
- Standard built-in drain pmup increases flexibility and installation speed
- No floor occupancy



FDXM25-35F9



BRC1KPD51W/K, BRP069C81

FDXM-F9

| Indoor unit | | | | FDXM | 35F9 | 50F9 | 60F9 |
|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 200x750x620 | 200x1,150x620 | |
| Weight | Unit | | | kg | 21 | 28 | |
| Air filter | Type | | | | Removable / washable | | |
| Fan | Air flow rate | Cooling | Low/Medium/High | $m^3$/min | 7.3/8.0/8.7 | 13.3/14.6/15.8 | 13.5/14.8/16.0 |
| | | Heating | Low/Medium/High | $m^3$/min | 7.3/8.0/8.7 | 13.3/14.6/15.8 | 13.5/14.8/16.0 |
| | External static pressure | Nom. | | Pa | 30 | 40 | |
| Sound power level | Cooling | | | dBA | 53.0 | 55.0 | 56.0 |
| | Heating | | | dBA | 53.0 | 55.0 | 56.0 |
| Sound pressure level | Cooling | Low/High | | dBA | 27.0/35.0 | 30.0/38.0 | |
| | Heating | Low/High | | dBA | 27.0/35.0 | 30.0/38.0 | |
| Control systems | Wired remote control | | | | BRC1KPD51K/W/81W, BRC1H52W/K/S7 | | |
| | Infrared remote control | | | | BRC7EA631, BRC7EA632 | | |
| | Onecta app | | | | BRP069C81 | | |

FVA-A

# Floor standing unit

## For commercial spaces with high ceilings

- Ideal solution for commercial spaces without or with narrow false ceilings
- Easy installation in new and refurbishment projects
- Very efficient for use in rooms with high ceilings
- Decreases temperature variation with an automatic fan
- speed selection and freely selectable 3-step fan speed
- Selectable horizontal out blow better suits the layout of your room
- Reduced energy consumption due to specially developed DC fan motor

FVA-A

BRC1KPD51W/K, BRP069C81

FVA-A

| Indoor unit | | | | FVA | 71A | 100A | 140A |
|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 1,850x600x270 | 1,850x600x350 | |
| Weight | Unit | | | kg | 42 | 50 | |
| Air filter | Type | | | | Resin net | | |
| Fan | Air flow rate | Cooling | Low/Medium/High | $m^3$/min | 14/16/18 | 22/25/28 | 26/28/30 |
| | | Heating | Low/Medium/High | $m^3$/min | 14/16/18 | 22/25/28 | 26/28/30 |
| Sound power level | Cooling | | | dBA | 55 | 62 | 65 |
| Sound pressure level | Cooling | Low/High | | dBA | 38/43 | 44/50 | 48/53 |
| | Heating | Nom./High | | dBA | 41/43 | 47/50 | 51/53 |
| Power supply | Phase/Frequency/Voltage | | | Hz/V | 1~/50/60/220-240/220 | | |
| Piping connections | Drain | | | | I.D. 20/O.D. 26 | | |
| Control systems | Wired remote control | | | | BRC1KPD51K/W/81W, BRC1H52W/K/S7 | | |
| | Infrared remote control | | | | BRC7EA631, BRC7EA632 | | |
| | Onecta app | | | | BRP069C81 | | |

FUA-A

# 4-way blow ceiling suspended unit

## Unique Daikin unit for high rooms with no false ceilings nor free floor space

- Rooms with ceilings up to 3.5m can be cooled easily without capacity loss
- Can be installed in both new and refurbishment projects
- Flexibility to suit every room layout without changing the location of the unit. The wired remote controller allows you to control and close each flap individually.
- Reduced energy consumption as a result of the specially developed small tube heat exchanger, DC fan motor and drain pump
- 5 different discharge angles between 0 and 60°can be programmed via remote control
- Standard drain pump with 500mm lift increases flexibility and installation speed

FUA-A

BRC1KPD51W/K, BRP069C81

Cassette units should only be used for specific room configurations where central installation is most suited for hot aisle/ cold aisle arrangements.
**See page 19 for more information**

FUA-A

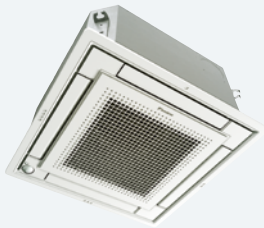
| Indoor unit | | | | FUA | 71A | 100A |
|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 198x950x950 | |
| Weight | Unit | | | kg | 25.0 | 26.0 |
| Air filter | Type | | | | Resinnet | |
| Fan | Air flow rate | Cooling | Low/Medium/High | $m^3$/min | 16.0/19.5/23.0 | 20.0/25.5/31.0 |
| | | Heating | Low/Medium/High | $m^3$/min | 16.0/19.5/23.0 | 20.0/25.5/31.0 |
| Sound power level | Cooling | | | dBA | 59 | 64 |
| Sound pressure level | Cooling | Low/High | | dBA | 35/41 | 39/46 |
| | Heating | Low/High | | dBA | 35/41 | 39/46 |
| Piping connections | Drain | | | | VP25 (OD Ø32.0) | |
| Control systems | Wired remote control | | | | BRC1KPD51K/W/81W, BRC1H52W/K/S7 | |
| | Infrared remote control | | | | BRC7EA631, BRC7EA632 | |
| | Onecta app | | | | BRP069C81 | |

FFA-A9

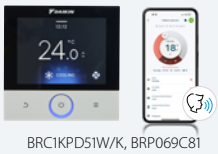
# Fully flat cassette

## Unique design in the market that integrates fully flat into the ceiling

- Fully flat integration in standard architectural ceiling tiles
- Remarkable blend of iconic design and engineering excellence with an elegant finish in white or a combination of silver and white
- Less energy consumption as a result of the specially developed small tube heat exchanger, DC fan motor and drain pump
- Fresh air intake integrated in the same system reduces installation costs because additional ventilation is not required
- Standard drain pump with 850mm lift increases flexibility and installation speed
- No adapter needed for DIII-connection; link your unit into the wider building management system



FFA-A9



BRC1KPD51W/K, BRP069C81

Cassette units should only be used for specific room configurations where central installation is most suited for hot aisle/ cold aisle arrangements.
**See page 19 for more information**

FFA-A9 RZAG-B

| Indoor unit | | | | FFA | 35A9 | 50A9 | 60A9 |
|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 260x575x575 | | |
| Weight | Unit | | | kg | 16.0 | 17.5 | |
| Air filter | Type | | | | Resin net | | |
| Decoration panel | Model | | | | BYFQ60C2W1W / BYFQ60C2W1S / BYFQ60B2W1 / BYFQ60B3W1 | | |
| | Colour | | | | White (N9.5)/SILVER/White (RAL9010)/WHITE (RAL9010) | | |
| | Dimensions | HeightxWidthxDepth | | mm | 46x620x620 / 46x620x620 / 55x700x700 / 55x700x700 | | |
| | Weight | | | kg | 2.8/2.8/2.7/2.7 | | |
| Fan | Air flow rate | Cooling | Low/Medium/High | $m^3$/min | 6.5/8.5/10.0 | 8.6/10.9/12.7 | 9.5/12.5/14.5 |
| | | Heating | Low/Medium/High | $m^3$/min | 6.5/8.5/10.0 | 8.6/10.9/12.7 | 9.5/12.5/14.5 |
| Sound power level | Cooling | | | dBA | 51.0 | 56.0 | 60.0 |
| Sound pressure level | Cooling | Low/Medium/High | | dBA | 25.0/30.5/34.0 | 27.0/34.0/39.0 | 32.0/40.0/43.0 |
| | Heating | Low/Medium/High | | dBA | 25.0/30.5/34.0 | 27.0/34.0/39.0 | 32.0/40.0/43.0 |
| Power supply | Phase/Frequency/Voltage | | | Hz/V | 1~/50/220-240 | | |
| Control systems | Wired remote control | | | | BRC1KPD51K/W/81W, BRC1H52W/K/S7 | | |
| | Infrared remote control | | | | BRC7EA631, BRC7EA632 | | |
| | Onecta app | | | | BRP069C81 | | |

FCAG-B

# Round flow cassette

## 360° air discharge for optimum efficiency and comfort

- 360° air discharge ensures uniform air flow and temperature distribution
- Automatic filter cleaning yields higher efficiency and lower maintenance costs. Dust can easily be removed with a vacuum cleaner, without opening the unit
- Flexibility to suit every room layout without changing the location of the unit. The wired remote controller allows you to control and close each flap individually.

FCAG-B

BRC1KPD51W/K, BRP069C81

Cassette units should only be used for specific room configurations where central installation is most suited for hot aisle/ cold aisle arrangements.
See page 19 for more information

FCAG-B

| Indoor unit | | | | FCAG | 35B | 50B | 60B | 71B | 100B | 140B |
|---|---|---|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 204x840x840 | | | | 246x840x840 | |
| Weight | Unit | | | kg | 18 | 19 | | 21 | 23 | |
| Air filter | Type | | | | Resin net | | | | | |
| Decoration panel | Model | | | | Standard panels: BYCQ140E - white with grey louvers / BYCQ140EW - full white / BYCQ140EB - black<br>Auto cleaning panels: BYCQ140EGF - white / BYCQ140EGFB - black<br>Designer panels: BYCQ140EP - white / BYCQ140EPB - black | | | | | |
| | Dimensions | HeightxWidthxDepth | | mm | Standard panels: 65x950x950 / Auto cleaning panels: 148x950x950 / Designer panels: 106x950x950 | | | | | |
| | Weight | | | kg | Standard panels: 5.5 / Auto cleaning panels: 10.3 / Designer panels: 6.5 | | | | | |
| Fan | Air flow rate | Cooling | Low/Medium/High | $m^3$/min | 8.8/10.6/12.9 | 9.4/11.8/14.6 | 9.6/12.2/14.9 | 10.8/13.0/15.1 | 13.0/17.8/22.7 | 13.1/20.4/27.2 |
| | | Heating | Low/Medium/High | $m^3$/min | 9.4/11.6/14.1 | 9.4/11.8/14.6 | 9.6/12.2/14.9 | 10.8/12.9/15.1 | 13.2/18.1/23.0 | 13.0/20.2/27.0 |
| Sound power level | Cooling | | | dBA | 49.0 | | 51.0 | | 54.0 | 58.0 |
| | Heating | | | dBA | 49.0 | | 51.0 | | 54.0 | 58.0 |
| Sound pressure level | Cooling | Low/High | | dBA | 27.0/31.0 | | 28.0/33.0 | 28.0/35.0 | 29.0/37.0 | 29.0/41.0 |
| | Heating | Low/High | | dBA | 27.0/31.0 | | 28.0/33.0 | | 29.0/37.0 | 29.0/41.0 |
| Power supply | Phase/Frequency/Voltage | | | Hz/V | 1~/50/60/220-240/220 | | | | | |
| Piping connections | Drain | | | | VP25 (O.D. 32 / I.D. 25) | | | | | |
| Control systems | Wired remote control | | | | BRC1KPD51K/W/81W, BRC1H52W/K/S7 | | | | | |
| | Infrared remote control | | | | BRC7EA631, BRC7EA632 | | | | | |
| | Onecta app | | | | BRP069C81 | | | | | |

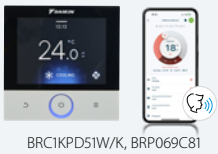
FCAHG-H

# High COP, round flow cassette

## 360° air discharge for optimum efficiency and comfort

- High efficiency cassette provides top performance, great savings in energy consumption
- 360° air discharge ensures uniform air flow and temperature distribution
- Automatic filter cleaning yields higher efficiency and lower maintenance costs. Dust can easily be removed with a vacuum cleaner, without opening the unit
- Flexibility to suit every room layout without changing the location of the unit. The wired remote controller allows you to control and close each flap individually.

FCAHG-H



BRC1KPD51W/K, BRP069C81

Cassette units should only be used for specific room configurations where central installation is most suited for hot aisle/ cold aisle arrangements.
See page 19 for more information

FCAHG-H

| Indoor unit | | | | FCAHG | 71H | 100H | 140H |
|---|---|---|---|---|---|---|---|
| Dimensions | Unit | HeightxWidthxDepth | | mm | 288x840x840 | | |
| Weight | Unit | | | kg | 25.0 | | |
| Air filter | Type | | | | Resin net | | |
| Decoration panel | Model | | | | Standard panels: BYCQ140E - white with grey louvers / BYCQ140EW - full white / BYCQ140EB - black<br>Auto cleaning panels: BYCQ140EGF - white / BYCQ140EGFB - black<br>Designer panels: BYCQ140EP - white / BYCQ140EPB - black | | |
| | Dimensions | HeightxWidthxDepth | | mm | Standard panels: 65x950x950 / Auto cleaning panels: 148x950x950 / Designer panels: 106x950x950 | | |
| | Weight | | | kg | Standard panels: 5.5 / Auto cleaning panels: 10.3 / Designer panels: 6.5 | | |
| Fan | Air flow rate | Cooling | Low/Medium/High | $m^3$/min | 13.7/18.8/23.6 | 19.1/25.7/32.2 | 21.2/27.3/34.4 |
| | | Heating | Low/Medium/High | $m^3$/min | 13.7/18.8/23.6 | 18.3/24.6/30.8 | 19.7/25.5/32.1 |
| Sound power level | Cooling | | | dBA | 53.0 | 61.0 | |
| | Heating | | | dBA | 53.0 | 61.0 | |
| Sound pressure level | Cooling | Low/High | | dBA | 29.0/36.0 | 33.0/44.0 | 37.0/45.0 |
| | Heating | Low/High | | dBA | 29.0/36.0 | 33.0/44.0 | 37.0/45.0 |
| Power supply | Phase/Frequency/Voltage | | | Hz/V | 1~/50/60/220-240/220 | | |
| Piping connections | Drain | | | | VP25 (I.D. 25/O.D. 32) | | |
| Control systems | Wired remote control | | | | BRC1KPD51K/W/81W, BRC1H52W/K/S7 | | |
| | Infrared remote control | | | | BRC7EA631, BRC7EA632 | | |
| | Onecta app | | | | BRP069C81 | | |

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