

## 10,12HP (28.0kW, 33.5kW)

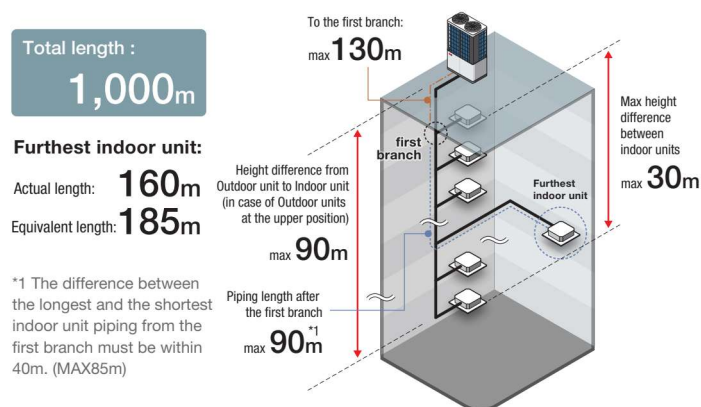


| Model No.   | Nominal Cooling Capacity |
|-------------|--------------------------|
| FDC280KXZA2 | 28.0kW                   |
| FDC335KXZA2 | 33.5kW                   |

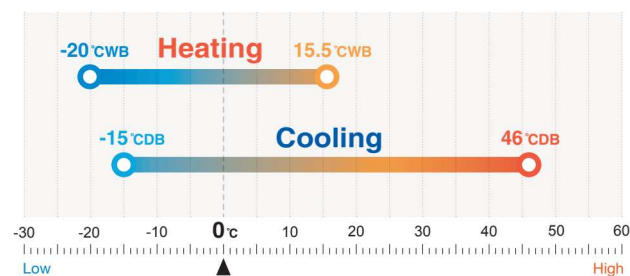
- The KXZ2 series has a layered design and a refined new form.
- Connect up to 29 indoor units/up to 130% capacity.
- High efficiency with EER up to 3.86.
- New Heating solution - Continuous Heating Capacity Control (CHCC).



Uniform footprint of models allows continuous side-by-side installation



### Range of operation

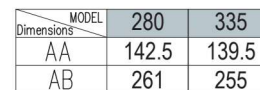


## Specifications

| Item                               |                   | Model     | FDC280KXZA2            | FDC335KXZA2              |
|------------------------------------|-------------------|-----------|------------------------|--------------------------|
| Nominal horse power                |                   |           | 10HP                   | 12HP                     |
| Power source                       |                   |           | 3 Phase 380-415V, 50Hz |                          |
| Starting current                   |                   | A         | 5                      |                          |
| Max current                        |                   | A         | 20.1                   |                          |
| Nominal capacity                   | Cooling           | kW        | 28.0                   | 33.5                     |
|                                    | Heating           | kW        | 31.5                   | 37.5                     |
| Electrical characteristics         | Power consumption | Cooling   | 7.25                   | 8.98                     |
|                                    |                   | Heating   | 7.41                   | 9.03                     |
| Exterior dimensions                | HxWxD             | mm        | 1697x1350x720          |                          |
| Net weight                         |                   | kg        | 284                    |                          |
| Sound pressure level               | Cooling/Heating   | dB(A)     | 56/57                  | 63/62                    |
| Refrigerant                        | Type / GWP        |           | R410A / 2088           |                          |
|                                    | Charge            | kg/TCO2Eq | 11.0 / 22.968          |                          |
| Refrigerant piping size            | Liquid line       | mm(in)    | ø9.52(3/8")            | ø12.7(1/2")              |
|                                    | Gas line          | mm(in)    | ø22.22(7/8")           | ø25.4(1") [ø22.22(7/8")] |
| Capacity connection                |                   | %         | 50-130                 |                          |
| Number of connectable indoor units |                   |           | 24                     | 29                       |

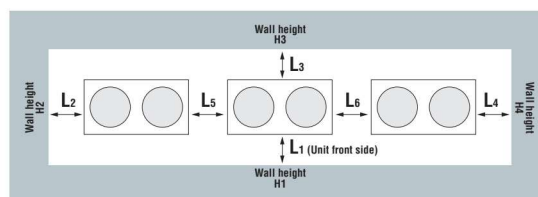
1. The data are measured under the following conditions(ISO-T1, H1). Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
2. Sound pressure level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
3. 'tonne(s) of CO<sub>2</sub> equivalent' means a quantity of greenhouse gases-expressed as the product of the weight of the greenhouse gases in metric tonnes and of their global warming potential.  
4. [ ] : Pipe sizes applicable to European installations are shown in parentheses.

All measurements in mm.



| Installation example |          |          |
|----------------------|----------|----------|
| Dimensions           | 1        | 2        |
| L <sub>1</sub>       | 500      | Open     |
| L <sub>2</sub>       | 10(30)   | 10(30)   |
| L <sub>3</sub>       | 100      | 100      |
| L <sub>4</sub>       | 10(30)   | Open     |
| H <sub>1</sub>       | 1500     | Open     |
| H <sub>2</sub>       | No limit | No limit |
| H <sub>3</sub>       | 1000     | No limit |
| H <sub>4</sub>       | No limit | Open     |

### When more than one unit is installed

39

## 14-20HP (40.0kW – 56.0kW)



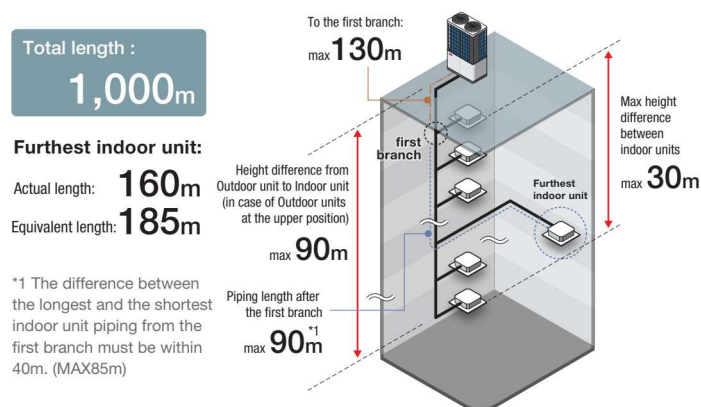
**VTEC**

| Model No.   | Nominal Cooling Capacity |
|-------------|--------------------------|
| FDC400KXZA2 | 40.0kW                   |
| FDC450KXZA2 | 45.0kW                   |
| FDC475KXZA2 | 47.5kW                   |
| FDC500KXZA2 | 50.0kW                   |
| FDC560KXZA2 | 56.0kW                   |

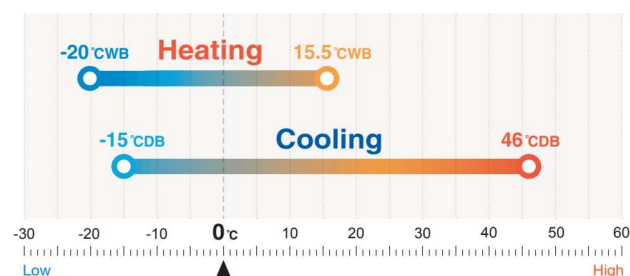
- The KXZ2 series has a layered design and a refined new form.
- Connect up to 48 indoor units/up to 130% capacity.
- High efficiency with EER up to 3.64.
- New Heating solution - Continuous Heating Capacity Control (CHCC).



Uniform footprint of all models allows continuous side-by-side installation



### Range of operation



## Specifications

| Item                               |                   |         | Model     | FDC400KXZA2                   | FDC450KXZA2    | FDC475KXZA2 | FDC500KXZA2 | FDC560KXZA2 |
|------------------------------------|-------------------|---------|-----------|-------------------------------|----------------|-------------|-------------|-------------|
| Nominal horse power                |                   |         |           | 14HP                          | 16HP           | 17HP        | 18HP        | 20HP        |
| Power source                       |                   |         |           | 3 Phase 380-415V, 50Hz        |                |             |             |             |
| Starting current                   |                   |         | A         | 5                             |                | 8           |             |             |
| Max current                        |                   |         | A         | 32.0                          |                | 40.2        |             |             |
| Nominal capacity                   | Cooling           |         | kW        | 40.0                          | 45.0           | 47.5        | 50.0        | 56.0        |
|                                    | Heating           |         |           | 45.0                          | 50.0           | 53.0        | 56.0        | 63.0        |
| Electrical characteristics         | Power consumption | Cooling | kW        | 10.98                         | 13.98          | 13.97       | 14.01       | 17.50       |
|                                    |                   | Heating |           | 10.23                         | 12.50          | 12.99       | 13.56       | 16.15       |
| Exterior dimensions                |                   | HxWxD   | mm        | 2052x1350x720                 |                |             |             |             |
| Net weight                         |                   |         | kg        | 328                           |                | 374         |             |             |
| Sound pressure level               | Cooling/Heating   |         | dB(A)     | 60/62                         | 61/62          | 61/61       | 61/62       | 63/64       |
| Refrigerant                        | Type / GWP        |         |           | R410A / 2088                  |                |             |             |             |
|                                    | Charge            |         | kg/TCO2Eq | 11.5 / 24.012                 |                |             |             |             |
| Refrigerant piping size            | Liquid line       |         | mm(in)    | ø12.7(1/2")                   |                |             |             |             |
|                                    | Gas line          |         |           | ø25.4(1")<br>[ø28.58(1·1/8")] | ø28.58(1·1/8") |             |             |             |
| Capacity connection                |                   |         | %         | 50-130                        |                |             |             |             |
| Number of connectable indoor units |                   |         |           | 34                            | 39             | 41          | 43          | 48          |

1. The data are measured under the following conditions(ISO-T1, H1). Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

2. Sound pressure level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

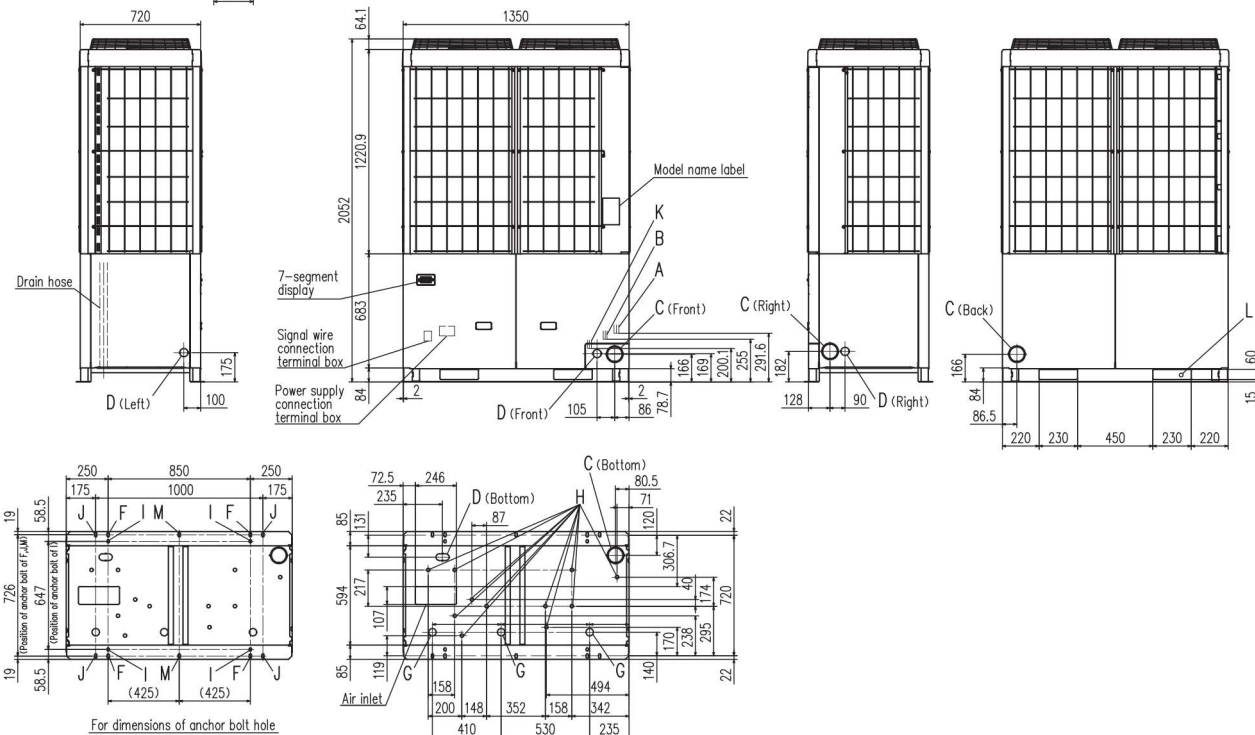
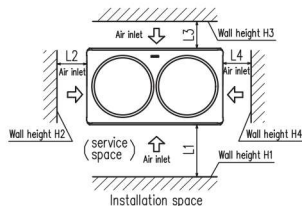
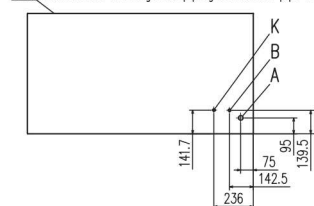
3. 'tonne(s) of CO<sub>2</sub> equivalent' means a quantity of greenhouse gases-expressed as the product of the weight of the greenhouse gases in metric tonnes and of their global warming potential.

4. [ ] : Pipe sizes applicable to European installations are shown in parentheses.

# Dimensions

All measurements in mm.

Back Dimensions of refrigerant piping connection pipe (ichnography)

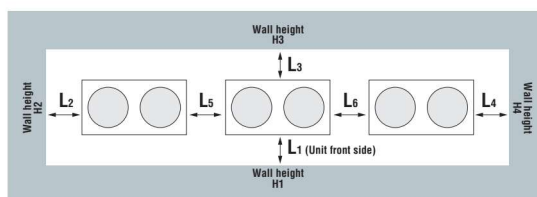


| Mark | Content                                             | 400                                                    | 450, 475, 500, 560 |
|------|-----------------------------------------------------|--------------------------------------------------------|--------------------|
| A    | Refrigerant gas piping connection pipe              | ø25.4(Brazing)                                         | ø28.58(Brazing)    |
| B    | Refrigerant liquid piping connection pipe           | ø12.7(Flare)                                           |                    |
| C    | Refrigerant piping exit hole                        | ø88(or ø100)                                           |                    |
| D    | Power supply entry hole                             | ø50 (right · left · front), long hole 40 x 80 (bottom) |                    |
| F    | Anchor bolt hole                                    | M10 x 4 places                                         |                    |
| G    | Drain waste water hose hole                         | ø45 x 3 places                                         |                    |
| H    | Drain hole                                          | ø20 x 11 places                                        |                    |
| K    | Refrigerant oil equalization piping connection pipe | ø9.52(Flare)                                           |                    |
| L    | Carrying in or hole for hanging                     | 230 x 60                                               |                    |

| Installation example |          |          |
|----------------------|----------|----------|
| Dimensions           | 1        | 2        |
| L <sub>1</sub>       | 500      | Open     |
| L <sub>2</sub>       | 10(30)   | 10(30)   |
| L <sub>3</sub>       | 100      | 100      |
| L <sub>4</sub>       | 10(30)   | Open     |
| H <sub>1</sub>       | 1500     | Open     |
| H <sub>2</sub>       | No limit | No limit |
| H <sub>3</sub>       | 1000     | No limit |
| H <sub>4</sub>       | No limit | Open     |

() :In case it is the promised installation location that the outdoor unit is used on conditions with the ambient temperature of 43°C or more.

## When more than one unit is installed



| Installation example |          |          |
|----------------------|----------|----------|
| Dimensions           | 1        | 2        |
| L <sub>1</sub>       | 500      | Open     |
| L <sub>2</sub>       | 10(30)   | 200      |
| L <sub>3</sub>       | 100      | 300      |
| L <sub>4</sub>       | 10(30)   | Open     |
| L <sub>5</sub>       | 10(30)   | 400      |
| L <sub>6</sub>       | 10(30)   | 400      |
| H <sub>1</sub>       | 1500     | Open     |
| H <sub>2</sub>       | No limit | No limit |
| H <sub>3</sub>       | 1000     | No limit |
| H <sub>4</sub>       | No limit | Open     |

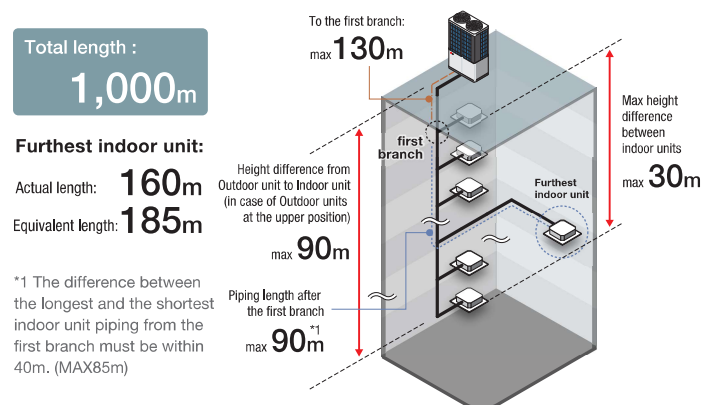
## 22,24HP (61.5kW, 67.0kW)



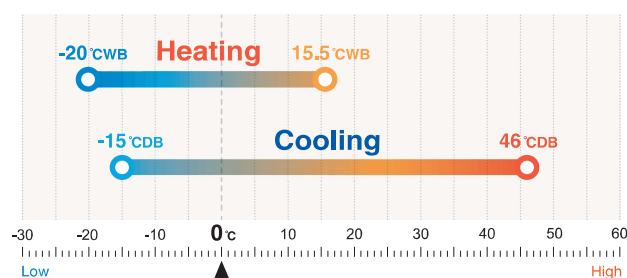
**VTCC**

| Model No.   | Nominal Cooling Capacity |
|-------------|--------------------------|
| FDC615KXZA2 | 61.5kW                   |
| FDC670KXZA2 | 67.0kW                   |

- The KXZ2 series has a layered design and a refined new form.
- Connect up to 58 indoor units/up to 130% capacity.
- High efficiency with EER up to 3.79.
- New Heating solution - Continuous Heating Capacity Control (CHCC).



Range of operation



## Specifications

Exterior dimension : Please refer to page 39.

| Item                               |                   |         | Model  | FDC615KXZA2            | FDC670KXZA2 |
|------------------------------------|-------------------|---------|--------|------------------------|-------------|
| Combination (FDC)                  |                   |         |        | 280KXZA2               | 335KXZA2    |
|                                    |                   |         |        | 335KXZA2               | 335KXZA2    |
| Nominal horse power                |                   |         |        | 22HP                   | 24HP        |
| Power source                       |                   |         |        | 3 Phase 380-415V, 50Hz |             |
| Starting current                   |                   |         | A      | 10                     |             |
| Max current                        |                   |         | A      | 40.2                   |             |
| Nominal capacity                   | Cooling           |         | kW     | 61.5                   | 67.0        |
|                                    | Heating           |         |        | 69.0                   | 75.0        |
| Electrical characteristics         | Power consumption | Cooling | kW     | 16.24                  | 17.96       |
|                                    |                   | Heating |        | 16.44                  | 18.06       |
| Net weight                         |                   |         | kg     | 567                    |             |
| Refrigerant charge                 | R410A             |         | kg     | 11.0x2                 |             |
| Refrigerant piping size            | Liquid line       |         | mm(in) | ø12.7(1/2")            |             |
|                                    | Gas line          |         |        | ø28.58(1·1/8")         |             |
| Capacity connection                |                   |         | %      | 50-130                 |             |
| Number of connectable indoor units |                   |         |        | 53                     | 58          |

1. The data are measured under the following conditions(ISO-T1,H1). Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
2.Sound pressure level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

## 26-40HP (73.5kW – 112.0kW)



**VTCC**

| Model No.    | Nominal Cooling Capacity |
|--------------|--------------------------|
| FDC735KXZA2  | 73.5kW                   |
| FDC800KXZA2  | 80.0kW                   |
| FDC850KXZA2  | 85.0kW                   |
| FDC900KXZA2  | 90.0kW                   |
| FDC950KXZA2  | 95.0kW                   |
| FDC1000KXZA2 | 100.0kW                  |
| FDC1060KXZA2 | 106.0kW                  |
| FDC1120KXZA2 | 112.0kW                  |

- The KXZ2 series has a layered design and a refined new form.
- Connect up to 80 indoor units/up to 130% capacity.
- High efficiency with EER up to 3.68.
- New Heating solution - Continuous Heating Capacity Control (CHCC).
- Industry leading total piping length up to 1000m and a maximum height difference between indoor units has been increased to maximum of 30m.
- Wide range of operation.



**FDC735**



**FDC800 – 1120**

## Specifications

Exterior dimension : Please refer to page 39, 41.

| Item                               |                   |         | Model  | FDC735KXZA2                     | FDC800KXZA2 | FDC850KXZA2 | FDC900KXZA2 | FDC950KXZA2                    | FDC1000KXZA2 | FDC1060KXZA2 | FDC1120KXZA2 |
|------------------------------------|-------------------|---------|--------|---------------------------------|-------------|-------------|-------------|--------------------------------|--------------|--------------|--------------|
| Combination (FDC)                  |                   |         |        | 335KXZA2                        | 400KXZA2    | 400KXZA2    | 450KXZA2    | 475KXZA2                       | 500KXZA2     | 500KXZA2     | 560KXZA2     |
|                                    |                   |         |        | 400KXZA2                        | 400KXZA2    | 450KXZA2    | 450KXZA2    | 475KXZA2                       | 500KXZA2     | 560KXZA2     | 560KXZA2     |
| Nominal horse power                |                   |         |        | 26HP                            | 28HP        | 30HP        | 32HP        | 34HP                           | 36HP         | 38HP         | 40HP         |
| Power source                       |                   |         |        | 3 Phase 380-415V, 50Hz          |             |             |             |                                |              |              |              |
| Starting current                   |                   |         | A      | 10                              |             |             |             | 16                             |              |              |              |
| Max current                        |                   |         | A      | 52.1                            | 64.0        |             |             | 80.4                           |              |              |              |
| Nominal capacity                   | Cooling           |         | kW     | 73.5                            | 80.0        | 85.0        | 90.0        | 95.0                           | 100.0        | 106.0        | 112.0        |
|                                    | Heating           |         |        | 82.5                            | 90.0        | 95.0        | 100.0       | 106.0                          | 112.0        | 119.0        | 126.0        |
| Electrical characteristics         | Power consumption | Cooling | kW     | 19.96                           | 21.96       | 24.96       | 27.95       | 27.94                          | 28.02        | 31.51        | 35.00        |
|                                    |                   | Heating |        | 19.26                           | 20.45       | 22.73       | 25.00       | 25.98                          | 27.12        | 29.71        | 32.31        |
| Net weight                         |                   |         | kg     | 611                             | 655         |             |             | 747                            |              |              |              |
| Refrigerant charge                 | R410A             |         | kg     | 11.0+11.5                       | 11.5x2      |             |             |                                |              |              |              |
| Refrigerant piping size            | Liquid line       |         | mm(in) | ø15.88(5/8")                    |             |             |             |                                |              | ø19.05(3/4") |              |
|                                    | Gas line          |         |        | ø31.75(1-1/4") [ø34.92(1-3/8")] |             |             |             | ø38.1(1-1/2") [ø34.92(1-3/8")] |              |              |              |
| Capacity connection                |                   |         | %      | 50-130                          |             |             |             |                                |              |              |              |
| Number of connectable indoor units |                   |         |        | 63                              | 69          | 73          | 78          | 80                             |              |              |              |

1. The data are measured under the following conditions (ISO-T1, H1). Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

2. Sound pressure level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

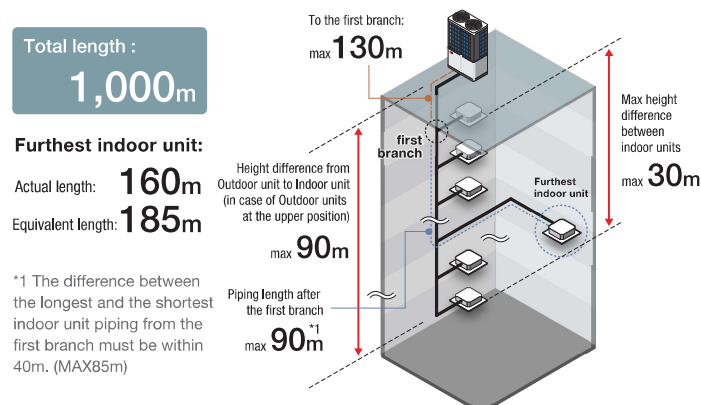
3. [ ] : Pipe sizes applicable to European installations are shown in parentheses.

## 42-48HP (120.0kW – 135.0kW)

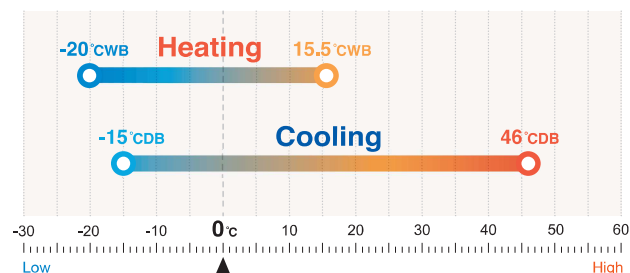


| Model No.    | Nominal Cooling Capacity |
|--------------|--------------------------|
| FDC1200KXZA2 | 120.0kW                  |
| FDC1250KXZA2 | 125.0kW                  |
| FDC1300KXZA2 | 130.0kW                  |
| FDC1350KXZA2 | 135.0kW                  |

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- Connect up to 80 indoor units/up to 130% capacity.
- High efficiency with EER up to 3.64.
- New Heating solution - Continuous Heating Capacity Control (CHCC).



### Range of operation



## Specifications

Exterior dimension : Please refer to page 41.

| Item                               |                   |         | Model  | FDC1200KXZA2                   | FDC1250KXZA2 | FDC1300KXZA2 | FDC1350KXZA2 |
|------------------------------------|-------------------|---------|--------|--------------------------------|--------------|--------------|--------------|
| Combination (FDC)                  |                   |         |        | 400KXZA2                       | 400KXZA2     | 400KXZA2     | 450KXZA2     |
|                                    |                   |         |        | 400KXZA2                       | 400KXZA2     | 450KXZA2     | 450KXZA2     |
|                                    |                   |         |        | 400KXZA2                       | 450KXZA2     | 450KXZA2     | 450KXZA2     |
| Nominal horse power                |                   |         |        | 42HP                           | 44HP         | 46HP         | 48HP         |
| Power source                       |                   |         |        | 3 Phase 380-415V, 50Hz         |              |              |              |
| Starting current                   |                   |         | A      | 15                             |              |              |              |
| Max current                        |                   |         | A      | 96.0                           |              |              |              |
| Nominal capacity                   | Cooling           |         | kW     | 120.0                          | 125.0        | 130.0        | 135.0        |
|                                    | Heating           |         |        | 135.0                          | 140.0        | 145.0        | 150.0        |
| Electrical characteristics         | Power consumption | Cooling | kW     | 32.94                          | 35.94        | 38.93        | 41.93        |
|                                    |                   | Heating |        | 30.68                          | 32.95        | 35.23        | 37.50        |
| Net weight                         |                   |         | kg     | 982                            |              |              |              |
| Refrigerant charge                 | R410A             |         | kg     | 11.5x3                         |              |              |              |
| Refrigerant piping size            | Liquid line       |         | mm(in) | ø19.05(3/4")                   |              |              |              |
|                                    | Gas line          |         |        | ø38.1(1-1/2") [ø34.92(1-3/8")] |              |              |              |
| Capacity connection                |                   |         | %      | 50-130                         |              |              |              |
| Number of connectable indoor units |                   |         |        | 80                             |              |              |              |

1. The data are measured under the following conditions(ISO-T1,H1). Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
2. Sound pressure level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
3. [ ] : Pipe sizes applicable to European installations are shown in parentheses.

## 50-60HP (142.5kW – 168.0kW)



| Model No.    | Nominal Cooling Capacity |
|--------------|--------------------------|
| FDC1425KXZA2 | 142.5kW                  |
| FDC1450KXZA2 | 145.0kW                  |
| FDC1500KXZA2 | 150.0kW                  |
| FDC1560KXZA2 | 156.0kW                  |
| FDC1620KXZA2 | 162.0kW                  |
| FDC1680KXZA2 | 168.0kW                  |

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- Connect up to 80 indoor units/up to 130% capacity.
- High efficiency with EER up to 3.57.
- New Heating solution - Continuous Heating Capacity Control (CHCC).



FDC1425 – 1680

Total length :

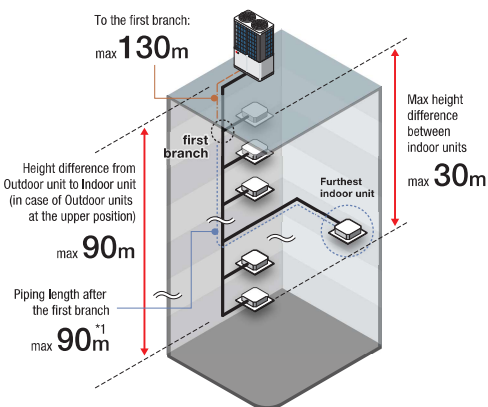
**1,000m**

Furthest indoor unit:

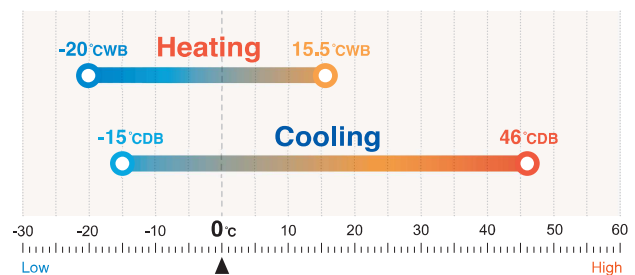
Actual length: **160m**

Equivalent length: **185m**

\*1 The difference between the longest and the shortest indoor unit piping from the first branch must be within 40m. (MAX85m)



### Range of operation



## Specifications

Exterior dimension : Please refer to page 41.

| Item                               |                   |         | Model  | FDC1425KXZA2                   | FDC1450KXZA2 | FDC1500KXZA2 | FDC1560KXZA2 | FDC1620KXZA2 | FDC1680KXZA2 |
|------------------------------------|-------------------|---------|--------|--------------------------------|--------------|--------------|--------------|--------------|--------------|
| Combination (FDC)                  |                   |         |        | 475KXZA2                       | 475KXZA2     | 500KXZA2     | 500KXZA2     | 500KXZA2     | 560KXZA2     |
|                                    |                   |         |        | 475KXZA2                       | 475KXZA2     | 500KXZA2     | 500KXZA2     | 560KXZA2     | 560KXZA2     |
|                                    |                   |         |        | 475KXZA2                       | 500KXZA2     | 500KXZA2     | 560KXZA2     | 560KXZA2     | 560KXZA2     |
| Nominal horse power                |                   |         |        | 50HP                           | 52HP         | 54HP         | 56HP         | 58HP         | 60HP         |
| Power source                       |                   |         |        | 3 Phase 380-415V, 50Hz         |              |              |              |              |              |
| Starting current                   |                   |         | A      | 24                             |              |              |              |              |              |
| Max current                        |                   |         | A      | 120.6                          |              |              |              |              |              |
| Nominal capacity                   | Cooling           |         | kW     | 142.5                          | 145.0        | 150.0        | 156.0        | 162.0        | 168.0        |
|                                    | Heating           |         |        | 159.0                          | 162.0        | 168.0        | 175.0        | 182.0        | 189.0        |
| Electrical characteristics         | Power consumption | Cooling | kW     | 41.91                          | 41.95        | 42.03        | 45.52        | 49.01        | 52.50        |
|                                    |                   | Heating |        | 38.97                          | 39.54        | 40.68        | 43.27        | 45.87        | 48.46        |
| Net weight                         |                   |         | kg     | 1120                           |              |              |              |              |              |
| Refrigerant charge                 | R410A             |         | kg     | 11.5x3                         |              |              |              |              |              |
| Refrigerant piping size            | Liquid line       |         | mm(in) | ø19.05(3/4")                   |              |              |              |              |              |
|                                    | Gas line          |         |        | ø38.1(1·1/2") [ø34.92(1·3/8")] |              |              |              |              |              |
| Capacity connection                |                   |         | %      | 50-130                         |              |              |              |              |              |
| Number of connectable indoor units |                   |         |        | 80                             |              |              |              |              |              |

1. The data are measured under the following conditions(ISO-T1,H1). Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

2. Sound pressure level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

3. [ ] : Pipe sizes applicable to European installations are shown in parentheses.

## 20-40HP (56.0kW – 113.5kW)



**VTEC**

| Model No.    |                        | Nominal Cooling Capacity |
|--------------|------------------------|--------------------------|
| FDC560KXZA2  | (FDC280+FDC280)        | 56.0kW                   |
| FDC850KXZA2  | (FDC280+FDC280+FDC280) | 84.0kW                   |
| FDC900KXZA2  | (FDC280+FDC280+FDC335) | 89.5kW                   |
| FDC950KXZA2  | (FDC280+FDC335+FDC335) | 95.0kW                   |
| FDC1000KXZA2 | (FDC335+FDC335+FDC335) | 100.5kW                  |
| FDC1060KXZA2 | (FDC335+FDC335+FDC400) | 107.0kW                  |
| FDC1120KXZA2 | (FDC335+FDC400+FDC400) | 113.5kW                  |

- The KXZ2 series has a layered design and a refined new form.
- This series can connect indoor unit capacity up to 130%.
- High efficiency with EER up to 3.86.
- New Heating solution - Continuous Heating Capacity Control (CHCC).



**FDC560**



**FDC850 - 1000**



**FDC1060**



**FDC1120**

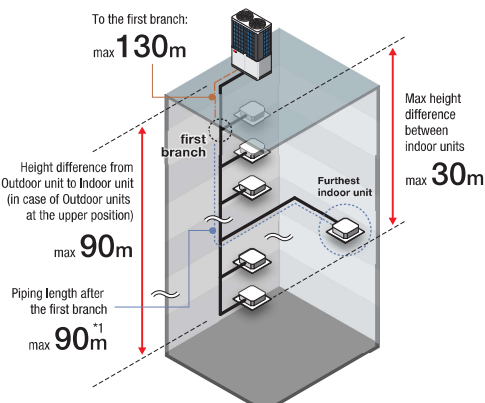
Total length :  
**1,000m**

**Furthest indoor unit:**

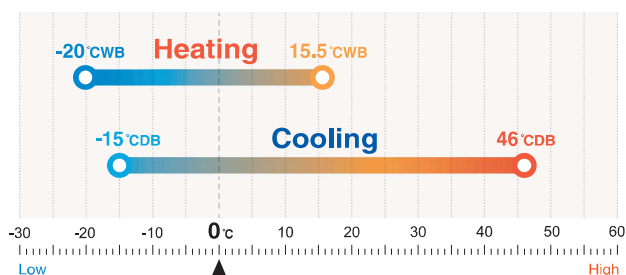
Actual length: **160m**

Equivalent length: **185m**

\*1 The difference between the longest and the shortest indoor unit piping from the first branch must be within 40m. (MAX85m)



### Range of operation



# Specifications

| Item                               |                   |         | Model  | FDC560KXZA2            | FDC850KXZA2                     | FDC900KXZA2 |
|------------------------------------|-------------------|---------|--------|------------------------|---------------------------------|-------------|
| Combination (FDC)                  |                   |         |        | 280KXZA2               | 280KXZA2                        | 280KXZA2    |
|                                    |                   |         |        | 280KXZA2               | 280KXZA2                        | 280KXZA2    |
|                                    |                   |         |        | -                      | 280KXZA2                        | 335KXZA2    |
| Nominal horse power                |                   |         |        | 20HP                   | 30HP                            | 32HP        |
| Power source                       |                   |         |        | 3 Phase 380-415V, 50Hz |                                 |             |
| Starting current                   |                   |         | A      | 10                     | 15                              |             |
| Max current                        |                   |         | A      | 40.2                   | 60.3                            |             |
| Nominal capacity                   | Cooling           |         | kW     | 56.0                   | 84.0                            | 89.5        |
|                                    | Heating           |         |        | 63.0                   | 94.5                            | 100.5       |
| Electrical characteristics         | Power consumption | Cooling | kW     | 14.51                  | 21.76                           | 23.49       |
|                                    |                   | Heating |        | 14.82                  | 22.23                           | 23.85       |
| Net weight                         |                   |         | kg     | 567                    | 850                             |             |
| Refrigerant charge                 | R410A             |         | kg     | 11.0x2                 | 11.0x3                          |             |
| Refrigerant piping size            | Liquid line       |         | mm(in) | ø12.7(1/2")            | ø15.88(5/8")                    |             |
|                                    | Gas line          |         |        | ø28.58(1·1/8")         | ø31.75(1·1/4") [ø34.92(1·3/8")] |             |
| Capacity connection                |                   |         | %      | 80-130                 |                                 |             |
| Number of connectable indoor units |                   |         |        | 48                     | 73                              | 78          |

| Item                               |                   |         | Model  | FDC950KXZA2                     | FDC1000KXZA2 | FDC1060KXZA2                   | FDC1120KXZA2 |
|------------------------------------|-------------------|---------|--------|---------------------------------|--------------|--------------------------------|--------------|
| Combination (FDC)                  |                   |         |        | 280KXZA2                        | 335KXZA2     | 335KXZA2                       | 335KXZA2     |
|                                    |                   |         |        | 335KXZA2                        | 335KXZA2     | 335KXZA2                       | 400KXZA2     |
|                                    |                   |         |        | 335KXZA2                        | 335KXZA2     | 400KXZA2                       | 400KXZA2     |
| Nominal horse power                |                   |         |        | 34HP                            | 36HP         | 38HP                           | 40HP         |
| Power source                       |                   |         |        | 3 Phase 380-415V, 50Hz          |              |                                |              |
| Starting current                   |                   |         | A      | 15                              |              |                                |              |
| Max current                        |                   |         | A      | 60.3                            |              | 72.2                           | 84.1         |
| Nominal capacity                   | Cooling           |         | kW     | 95.0                            | 100.5        | 107.0                          | 113.5        |
|                                    | Heating           |         |        | 106.5                           | 112.5        | 120.0                          | 127.5        |
| Electrical characteristics         | Power consumption | Cooling | kW     | 25.22                           | 26.94        | 28.94                          | 30.94        |
|                                    |                   | Heating |        | 25.47                           | 27.09        | 28.29                          | 29.48        |
| Net weight                         |                   |         | kg     | 850                             |              | 894                            | 938          |
| Refrigerant charge                 | R410A             |         | kg     | 11.0x3                          |              | 11.0x2+11.5                    | 11.0+11.5x2  |
| Refrigerant piping size            | Liquid line       |         | mm(in) | ø15.88(5/8")                    |              | ø19.05(3/4")                   |              |
|                                    | Gas line          |         |        | ø31.75(1·1/4") [ø34.92(1·3/8")] |              | ø38.1(1·1/2") [ø34.92(1·3/8")] |              |
| Capacity connection                |                   |         | %      | 80-130                          |              |                                |              |
| Number of connectable indoor units |                   |         |        | 80                              |              |                                |              |

1. The data are measured under the following conditions(ISO-T1,H1). Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
2. Sound pressure level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
3. [ ] : Pipe sizes applicable to European installations are shown in parentheses.

## Dimensions

Please refer to page 39, 41.

## 10-60HP (28.0kW – 168.0kW)


**VTEC**

| Model No.    | Nominal Cooling Capacity | Model No.     | Nominal Cooling Capacity | Model No.     | Nominal Cooling Capacity |
|--------------|--------------------------|---------------|--------------------------|---------------|--------------------------|
| FDC280CKXZA2 | 28.0kW                   | FDC615CKXZA2  | 61.5kW                   | FDC1120CKXZA2 | 112.0kW                  |
| FDC335CKXZA2 | 33.5kW                   | FDC670CKXZA2  | 67.0kW                   | FDC1200CKXZA2 | 120.0kW                  |
| FDC400CKXZA2 | 40.0kW                   | FDC735CKXZA2  | 73.5kW                   | FDC1250CKXZA2 | 125.0kW                  |
| FDC450CKXZA2 | 45.0kW                   | FDC800CKXZA2  | 80.0kW                   | FDC1300CKXZA2 | 130.0kW                  |
| FDC475CKXZA2 | 47.5kW                   | FDC850CKXZA2  | 85.0kW                   | FDC1350CKXZA2 | 135.0kW                  |
| FDC500CKXZA2 | 50.0kW                   | FDC900CKXZA2  | 90.0kW                   | FDC1425CKXZA2 | 142.5kW                  |
| FDC560CKXZA2 | 56.0kW                   | FDC950CKXZA2  | 95.0kW                   | FDC1450CKXZA2 | 145.0kW                  |
|              |                          | FDC1000CKXZA2 | 100.0kW                  | FDC1500CKXZA2 | 150.0kW                  |
|              |                          | FDC1060CKXZA2 | 106.0kW                  | FDC1560CKXZA2 | 156.0kW                  |
|              |                          |               |                          | FDC1620CKXZA2 | 162.0kW                  |
|              |                          |               |                          | FDC1680CKXZA2 | 168.0kW                  |

- The KXZ2 series has a layered design and a refined new form.
- Connect up to 80 indoor units/up to 130% capacity.
- High efficiency with EER up to 3.86.
- Industry leading total piping length up to 1000m and a maximum pipe run of 160m.

**FDC280CKXZA2  
FDC335CKXZA2**



**FDC400CKXZA2  
FDC450CKXZA2  
FDC475CKXZA2  
FDC500CKXZA2  
FDC560CKXZA2**



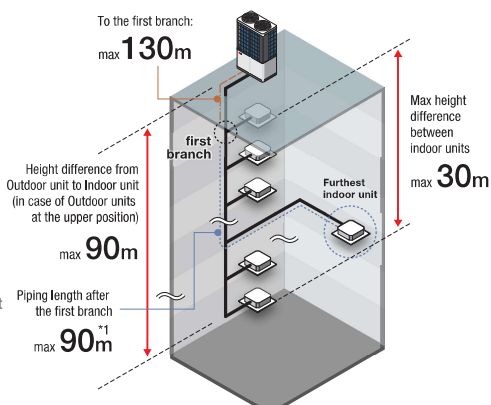
Total length :  
**1,000m**

**Furthest indoor unit:**

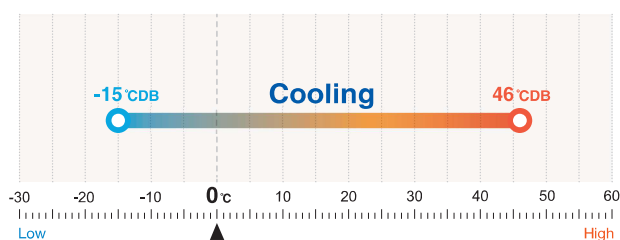
Actual length: **160m**

Equivalent length: **185m**

\*1 The difference between the longest and the shortest indoor unit piping from the first branch must be within 40m. (MAX85m)



**Range of operation**



# Specifications

| Item                               |                   |         | Model     | FDC280CKXA2            | FDC335CKXA2              |
|------------------------------------|-------------------|---------|-----------|------------------------|--------------------------|
| Nominal horse power                |                   |         |           | 10HP                   | 12HP                     |
| Power source                       |                   |         |           | 3 Phase 380-415V, 50Hz |                          |
| Starting current                   |                   |         | A         | 5                      |                          |
| Max current                        |                   |         | A         | 20.1                   |                          |
| Nominal capacity                   | Cooling           |         | kW        | 28.0                   | 33.5                     |
| Electrical characteristics         | Power consumption | Cooling | kW        | 7.25                   | 8.98                     |
| Net weight                         |                   |         | kg        | 284                    |                          |
| Sound pressure level               | Cooling           |         | dB(A)     | 56                     | 63                       |
| Refrigerant                        | Type / GWP        |         |           | R410A / 2088           |                          |
|                                    | Charge            |         | kg/TCO2Eq | 11.0 / 22.968          |                          |
| Refrigerant piping size            | Liquid line       | mm(in)  |           | ø9.52(3/8")            | ø12.7(1/2")              |
|                                    | Gas line          |         |           | ø22.22(7/8")           | ø25.4(1") [ø22.22(7/8")] |
| Capacity connection                |                   |         | %         | 50-130                 |                          |
| Number of connectable indoor units |                   |         |           | 24                     | 29                       |

| Item                               |                   |         | Model     | FDC400CKXZA2                  | FDC450CKXZA2   | FDC475CKXZA2 | FDC500CKXZA2 | FDC560CKXZA2 |
|------------------------------------|-------------------|---------|-----------|-------------------------------|----------------|--------------|--------------|--------------|
| Nominal horse power                |                   |         |           | 14HP                          | 16HP           | 17HP         | 18HP         | 20HP         |
| Power source                       |                   |         |           | 3 Phase 380-415V, 50Hz        |                |              |              |              |
| Starting current                   |                   |         | A         | 5                             |                | 8            |              |              |
| Max current                        |                   |         | A         | 32.0                          |                | 40.2         |              |              |
| Nominal capacity                   | Cooling           |         | kW        | 40.0                          | 45.0           | 47.5         | 50.0         | 56.0         |
| Electrical characteristics         | Power consumption | Cooling | kW        | 10.98                         | 13.98          | 13.97        | 14.01        | 17.50        |
| Net weight                         |                   |         | kg        | 328                           |                | 374          |              |              |
| Sound pressure level               | Cooling           |         | dB(A)     | 60                            | 61             | 61           | 61           | 63           |
| Refrigerant                        | Type / GWP        |         |           | R410A / 2088                  |                |              |              |              |
|                                    | Charge            |         | kg/TCO2Eq | 11.5 / 24.012                 |                |              |              |              |
| Refrigerant piping size            | Liquid line       |         | mm(in)    | ø12.7(1/2")                   |                |              |              |              |
|                                    | Gas line          |         |           | ø25.4(1")<br>[ø28.58(1-1/8")] | ø28.58(1-1/8") |              |              |              |
| Capacity connection                |                   |         | %         | 50-130                        |                |              |              |              |
| Number of connectable indoor units |                   |         |           | 34                            | 39             | 41           | 43           | 48           |

| Item                               |                   |         | Model          | FDC615CKXZA2           | FDC670CKXZA2                    | FDC735CKXZA2 | FDC800CKXZA2 | FDC850CKXZA2 |
|------------------------------------|-------------------|---------|----------------|------------------------|---------------------------------|--------------|--------------|--------------|
| Combination (FDC)                  |                   |         |                | 280CKXZA2              | 335CKXZA2                       | 335CKXZA2    | 400CKXZA2    | 400CKXZA2    |
|                                    |                   |         |                | 335CKXZA2              | 335CKXZA2                       | 400CKXZA2    | 400CKXZA2    | 450CKXZA2    |
| Nominal horse power                |                   |         |                | 22HP                   | 24HP                            | 26HP         | 28HP         | 30HP         |
| Power source                       |                   |         |                | 3 Phase 380-415V, 50Hz |                                 |              |              |              |
| Starting current                   |                   |         | A              | 10                     |                                 |              |              |              |
| Max current                        |                   |         | A              | 40.2                   |                                 | 52.1         | 64.0         |              |
| Nominal capacity                   | Cooling           |         | kW             | 61.5                   | 67.0                            | 73.5         | 80.0         | 85.0         |
| Electrical characteristics         | Power consumption | Cooling | kW             | 16.24                  | 17.96                           | 19.96        | 21.96        | 24.96        |
| Net weight                         |                   |         | kg             | 567                    |                                 | 611          | 655          |              |
| Refrigerant charge                 | R410A             |         | kg             | 11.0x2                 |                                 | 11.0+11.5    |              |              |
| Refrigerant piping size            | Liquid line       | mm(in)  |                | ø12.7(1/2")            |                                 | ø15.88(5/8") |              |              |
|                                    | Gas line          |         | ø28.58(1-1/8") |                        | ø31.75(1-1/4") [ø34.92(1-3/8")] |              |              |              |
| Capacity connection                |                   |         | %              | 50-130                 |                                 |              |              |              |
| Number of connectable indoor units |                   |         |                | 53                     | 58                              | 63           | 69           | 73           |

1. The data are measured under the following conditions (ISO-T1). Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB.
2. Sound pressure level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
3. 'tonne(s) of CO2 equivalent' means a quantity of greenhouse gases- expressed as the product of the weight of the greenhouse gases in metric tonnes and of their global warming potential.
4. [ ] : Pipe sizes applicable to European installations are shown in parentheses.

# Specifications

| Item                               |                   |         | Model                           | FDC900CKXZA2           | FDC950CKXZA2 | FDC1000CKXZA2                  | FDC1060CKXZA2 | FDC1120CKXZA2 |
|------------------------------------|-------------------|---------|---------------------------------|------------------------|--------------|--------------------------------|---------------|---------------|
| Combination (FDC)                  |                   |         |                                 | 450CKXZA2              | 475CKXZA2    | 500CKXZA2                      | 500CKXZA2     | 560CKXZA2     |
|                                    |                   |         |                                 | 450CKXZA2              | 475CKXZA2    | 500CKXZA2                      | 560CKXZA2     | 560CKXZA2     |
| Nominal horse power                |                   |         |                                 | 32HP                   | 34HP         | 36HP                           | 38HP          | 40HP          |
| Power source                       |                   |         |                                 | 3 Phase 380-415V, 50Hz |              |                                |               |               |
| Starting current                   |                   |         | A                               | 10                     | 16           |                                |               |               |
| Max current                        |                   |         | A                               | 64.0                   | 80.4         |                                |               |               |
| Nominal capacity                   | Cooling           |         | kW                              | 90.0                   | 95.0         | 100.0                          | 106.0         | 112.0         |
| Electrical characteristics         | Power consumption | Cooling | kW                              | 27.95                  | 27.94        | 28.02                          | 31.51         | 35.00         |
| Net weight                         |                   |         | kg                              | 655                    | 747          |                                |               |               |
| Refrigerant charge                 | R410A             |         | kg                              | 11.5x2                 |              |                                |               |               |
| Refrigerant piping size            | Liquid line       | mm(in)  | ø15.88(5/8")                    |                        |              |                                | ø19.05(3/4")  |               |
|                                    | Gas line          |         | ø31.75(1-1/4") [ø34.92(1-3/8")] |                        |              | ø38.1(1-1/2") [ø34.92(1-3/8")] |               |               |
| Capacity connection                |                   |         | %                               | 50-130                 |              |                                |               |               |
| Number of connectable indoor units |                   |         |                                 | 78                     | 80           |                                |               |               |

| Item                               |                   |         | Model                          | FDC1200CKXZA2          | FDC1250CKXZA2 | FDC1300CKXZA2 | FDC1350CKXZA2 | FDC1425CKXZA2 |       |
|------------------------------------|-------------------|---------|--------------------------------|------------------------|---------------|---------------|---------------|---------------|-------|
| Combination (FDC)                  |                   |         |                                | 400CKXZA2              | 400CKXZA2     | 400CKXZA2     | 450CKXZA2     | 475CKXZA2     |       |
|                                    |                   |         |                                | 400CKXZA2              | 400CKXZA2     | 450CKXZA2     | 450CKXZA2     | 475CKXZA2     |       |
|                                    |                   |         |                                | 400CKXZA2              | 450CKXZA2     | 450CKXZA2     | 450CKXZA2     | 475CKXZA2     |       |
| Nominal horse power                |                   |         |                                | 42HP                   | 44HP          | 46HP          | 48HP          | 50HP          |       |
| Power source                       |                   |         |                                | 3 Phase 380-415V, 50Hz |               |               |               |               |       |
| Starting current                   |                   |         | A                              | 15                     |               |               |               |               | 24    |
| Max current                        |                   |         | A                              | 96.0                   |               |               |               |               | 120.6 |
| Nominal capacity                   | Cooling           |         | kW                             | 120.0                  | 125.0         | 130.0         | 135.0         | 142.5         |       |
| Electrical characteristics         | Power consumption | Cooling | kW                             | 32.94                  | 35.94         | 38.93         | 41.93         | 41.91         |       |
| Net weight                         |                   |         | kg                             | 982                    |               |               |               |               | 1120  |
| Refrigerant charge                 | R410A             |         | kg                             | 11.5x3                 |               |               |               |               |       |
| Refrigerant piping size            | Liquid line       | mm(in)  | ø19.05(3/4")                   |                        |               |               |               |               |       |
|                                    | Gas line          |         | ø38.1(1·1/2") [ø34.92(1·3/8")] |                        |               |               |               |               |       |
| Capacity connection                |                   |         | %                              | 50-130                 |               |               |               |               |       |
| Number of connectable indoor units |                   |         |                                | 80                     |               |               |               |               |       |

| Item                               |                   |         | Model                          | FDC1450CKXZA2          | FDC1500CKXZA2 | FDC1560CKXZA2 | FDC1620CKXZA2 | FDC1680CKXZA2 |
|------------------------------------|-------------------|---------|--------------------------------|------------------------|---------------|---------------|---------------|---------------|
| Combination (FDC)                  |                   |         |                                | 475CKXZA2              | 500CKXZA2     | 500CKXZA2     | 500CKXZA2     | 560CKXZA2     |
|                                    |                   |         |                                | 475CKXZA2              | 500CKXZA2     | 500CKXZA2     | 560CKXZA2     | 560CKXZA2     |
|                                    |                   |         |                                | 500CKXZA2              | 500CKXZA2     | 560CKXZA2     | 560CKXZA2     | 560CKXZA2     |
| Nominal horse power                |                   |         |                                | 52HP                   | 54HP          | 56HP          | 58HP          | 60HP          |
| Power source                       |                   |         |                                | 3 Phase 380-415V, 50Hz |               |               |               |               |
| Starting current                   |                   |         | A                              | 24                     |               |               |               |               |
| Max current                        |                   |         | A                              | 120.6                  |               |               |               |               |
| Nominal capacity                   | Cooling           |         | kW                             | 145.0                  | 150.0         | 156.0         | 162.0         | 168.0         |
| Electrical characteristics         | Power consumption | Cooling | kW                             | 41.95                  | 42.03         | 45.52         | 49.01         | 52.50         |
| Net weight                         |                   |         | kg                             | 1120                   |               |               |               |               |
| Refrigerant charge                 | R410A             |         | kg                             | 11,5x3                 |               |               |               |               |
| Refrigerant piping size            | Liquid line       | mm(in)  | ø19.05(3/4")                   |                        |               |               |               |               |
|                                    | Gas line          |         | ø38.1(1·1/2") [ø34.92(1·3/8")] |                        |               |               |               |               |
| Capacity connection                |                   |         | %                              | 50-130                 |               |               |               |               |
| Number of connectable indoor units |                   |         |                                | 80                     |               |               |               |               |

1. The data are measured under the following conditions(ISO-T1). Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB.
2. Sound pressure level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
3. [ ] : Pipe sizes applicable to European installations are shown in parentheses.

## Dimensions

Please refer to page 39, 41.

# 20-40HP (56.0kW – 113.5kW)



### Model No.

|               |                        |         |
|---------------|------------------------|---------|
| FDC560CKXZA2  | (FDC280+FDC280)        | 56.0kW  |
| FDC850CKXZA2  | (FDC280+FDC280+FDC280) | 84.0kW  |
| FDC900CKXZA2  | (FDC280+FDC280+FDC335) | 89.5kW  |
| FDC950CKXZA2  | (FDC280+FDC335+FDC335) | 95.0kW  |
| FDC1000CKXZA2 | (FDC335+FDC335+FDC335) | 100.5kW |
| FDC1060CKXZA2 | (FDC335+FDC335+FDC400) | 107.0kW |
| FDC1120CKXZA2 | (FDC335+FDC400+FDC400) | 113.5kW |

### Nominal Cooling Capacity



FDC1060

(combination example)

Higher  
Economic  
Benefits

High  
Efficiency

Higher  
Energy  
Savings

## Specifications

| Item                               |                   |         | Model  | FDC560CKXZA2              | FDC850CKXZA2 | FDC900CKXZA2 |
|------------------------------------|-------------------|---------|--------|---------------------------|--------------|--------------|
| Combination (FDC)                  |                   |         |        | 280CKXZA2                 | 280CKXZA2    | 280CKXZA2    |
|                                    |                   |         |        | 280CKXZA2                 | 280CKXZA2    | 280CKXZA2    |
|                                    |                   |         |        | -                         | 280CKXZA2    | 335CKXZA2    |
| Nominal horse power                |                   |         |        | 20HP                      | 30HP         | 32HP         |
| Power source                       |                   |         |        | 3 Phase 380-415V, 50Hz    |              |              |
| Starting current                   |                   |         | A      | 10                        | 15           |              |
| Max current                        |                   |         | A      | 40.2                      | 60.3         |              |
| Nominal capacity                   | Cooling           |         | kW     | 56.0                      | 84.0         | 89.5         |
| Electrical characteristics         | Power consumption | Cooling | kW     | 14,51                     | 21,76        | 23,49        |
| Net weight                         |                   |         | kg     | 567                       | 850          |              |
| Refrigerant charge                 |                   |         | kg     | 11.0x2                    | 11.0x3       |              |
| Refrigerant piping size            | Liquid line       |         | mm(in) | ø12.7(1/2")               | ø15.88(5/8") |              |
|                                    | Gas line          |         |        | ø31.75(1¼") [ø34.92(1⅜")] |              |              |
| Capacity connection                |                   |         | %      | 80-130                    |              |              |
| Number of connectable indoor units |                   |         |        | 48                        | 73           | 78           |

| Item                               |                   |         |    | Model  | FDC950CKXZA2                    | FDC1000CKXZA2 | FDC1060CKXZA2                  | FDC1120CKXZA2 |
|------------------------------------|-------------------|---------|----|--------|---------------------------------|---------------|--------------------------------|---------------|
| Combination (FDC)                  |                   |         |    |        | 280CKXZA2                       | 335CKXZA2     | 335CKXZA2                      | 335CKXZA2     |
|                                    |                   |         |    |        | 335CKXZA2                       | 335CKXZA2     | 335CKXZA2                      | 400CKXZA2     |
|                                    |                   |         |    |        | 335CKXZA2                       | 335CKXZA2     | 400CKXZA2                      | 400CKXZA2     |
| Nominal horse power                |                   |         |    |        | 34HP                            | 36HP          | 38HP                           | 40HP          |
| Power source                       |                   |         |    |        | 3 Phase 380-415V, 50Hz          |               |                                |               |
| Starting current                   |                   |         |    | A      | 15                              |               |                                |               |
| Max current                        |                   |         |    | A      | 60.3                            |               | 72.2                           | 84.1          |
| Nominal capacity                   | Cooling           |         |    | kW     | 95.0                            | 100.5         | 107.0                          | 113.5         |
| Electrical characteristics         | Power consumption | Cooling | kW | 25.22  | 26.94                           | 28.94         | 30.94                          |               |
| Net weight                         |                   |         |    | kg     | 850                             |               | 894                            | 938           |
| Refrigerant charge                 |                   |         |    | R410A  | 11.0x3                          |               | 11.0x2+11.5                    | 11.0+11.5x2   |
| Refrigerant piping size            | Liquid line       |         |    | mm(in) | ø15.88(5/8")                    |               | ø19.05(3/4")                   |               |
|                                    | Gas line          |         |    |        | ø31.75(1-1/4") [ø34.92(1-3/8")] |               | ø38.1(1-1/2") [ø34.92(1-3/8")] |               |
| Capacity connection                |                   |         |    | %      | 80-130                          |               |                                |               |
| Number of connectable indoor units |                   |         |    |        | 80                              |               |                                |               |

1. The data are measured under the following conditions(ISO-T1). Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB.

2. Sound pressure level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

3. [ ] : Pipe sizes applicable to European installations are shown in parentheses.

## Dimensions

Please refer to page 39, 41.