

# 1 Features

- Outdoor units for pair application
- Daikin outdoor units are neat and sturdy and can be mounted easily on a roof or terrace or simply placed against an outside wall.
- Outdoor units are fitted with a swing compressor, renowned for its low noise and high energy efficiency

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## 2 Specifications

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| 2-1 NOMINAL CAPACITY AND NOMINAL INPUT       |                           |          |    | RYN50E3V1B |   | RYN60E3V1B |   |  |
|--|---------------------------|----------|----|------------|---|------------|---|--|
| For combination indoor units + outdoor units | Indoor Units              |          |    | FTYN50EV1B |   | FTYN60EV1B |   |  |
|  | Cooling capacity          | Standard | kW | 5.0        |   | 6.0        |   |  |
| Heating capacity                             | Standard                  | kW       |    | 5.8        |   | 7.0        |   |  |
| Nominal input                                | Cooling                   | Standard | kW | 1.55       |   | 1.99       |   |  |
|  | Heating                   | Standard | kW | 1.60       |   | 2.04       |   |  |
| For combination indoor units + outdoor units | EER                       | Nominal  |    | 3.23       |   | 3.02       |   |  |
|  | COP                       | Nominal  |    | 3.63       |   | 3.43       |   |  |
|  | Energy Labeling Directive | Cooling  |    |            | A |            | B |  |
|  |                           | Heating  |    |            | A |            | B |  |
|  | Annual energy consumption | kWh      |    | 775        |   | 995        |   |  |
| Indoor Units                                 |                           |          |    | FTYN50FV1B |   | FTYN60FV1B |   |  |
| Cooling capacity                             | Standard                  | kW       |    | 5.0        |   | 6.0        |   |  |
| Heating capacity                             | Standard                  | kW       |    | 5.8        |   | 7.0        |   |  |
| Nominal input                                | Cooling                   | Standard | kW | 1.55       |   | 1.99       |   |  |
|  | Heating                   | Standard | kW | 1.60       |   | 2.04       |   |  |
| For combination indoor units + outdoor units | EER                       | Nominal  |    | 3.23       |   | 3.02       |   |  |
|  | COP                       | Nominal  |    | 3.63       |   | 3.43       |   |  |
|  | Energy Labeling Directive | Cooling  |    |            | A |            | B |  |
|  |                           | Heating  |    |            | A |            | B |  |
|  | Annual energy consumption | kWh      |    | 775        |   | 995        |   |  |

| 2-2 TECHNICAL SPECIFICATIONS |                                 |                               |               | RYN50E3V1B  |   | RYN60E3V1B |   |  |
|------------------------------|---------------------------------|-------------------------------|---------------|-------------|---|------------|---|--|
| Casing                       | Colour                          |                               |               | Ivory White |   |            |   |  |
| Dimensions                   | Unit                            | Height                        | mm            | 735         |   | 735        |   |  |
|                              |                                 | Width                         | mm            | 825         |   | 825        |   |  |
|                              |                                 | Depth                         | mm            | 300         |   | 300        |   |  |
|                              | Packing                         | Height                        | mm            | 797         |   | 797        |   |  |
|                              |                                 | Width                         | mm            | 960         |   | 960        |   |  |
|                              |                                 | Depth                         | mm            | 390         |   | 390        |   |  |
| Weight                       | Unit                            |                               | kg            | 48          |   | 48         |   |  |
|                              | Packed Unit                     |                               | kg            | 53          |   | 53         |   |  |
| Heat Exchanger               | Dimensions                      | Length                        | mm            | 845         |   | 845        |   |  |
|                              |                                 | Nr of Rows                    |               | 2           |   | 2          |   |  |
|                              |                                 | Fin Pitch                     | mm            | 1.80        |   | 1.80       |   |  |
|                              |                                 | Nr of Stages                  |               | 32          |   | 32         |   |  |
|                              | Tube type                       |                               | Hi-Xa(8)      |             |   |            |   |  |
|                              | Fin                             | Type                          | Waffle fin    |             |   |            |   |  |
| Treatment                    |                                 | Anti-corrosion treatment (PE) |               |             |   |            |   |  |
| Fan                          | Type                            |                               |               | Propeller   |   |            |   |  |
|                              | Quantity                        |                               |               | 1           |   | 1          |   |  |
|                              | Air Flow Rate (nominal at 230V) | Cooling                       | m³/min        | 48.9        |   | 50.9       |   |  |
|                              |                                 | Heating                       | m³/min        | 45.0        |   | 46.3       |   |  |
|                              | Motor                           | Quantity                      |               |             | 1 |            | 1 |  |
| Model                        |                                 |                               | KFD-380-50-8A |             |   |            |   |  |
| Motor (nominal)              | Speed                           | Cooling                       | rpm           | 780         |   | 810        |   |  |
|                              |                                 | Heating                       | rpm           | 720         |   | 740        |   |  |
| Fan                          | Motor                           | Output                        | W             | 53          |   | 53         |   |  |

## 2 Specifications

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| 2-2 TECHNICAL SPECIFICATIONS |                                  |                |      | RYN50E3V1B  |                                      | RYN60E3V1B |      |
|------------------------------|----------------------------------|----------------|------|---|--------------------------------------|------------|------|
| Compressor                   | Quantity                         |                |      | 1   |                                      | 1          |      |
|                              | Motor                            | Model          |      |   | 2YC36BXD#A                           |            |      |
|                              |                                  | Type           |      |   | Hermetically sealed swing compressor |            |      |
|                              |                                  | Motor Output   | W    |   | 1100                                 |            | 1100 |
| Operation Range              | Cooling                          | Min            | °CDB | -10.0   |                                      | -10.0      |      |
|                              |                                  | Max            | °CDB | 46.0  |                                      | 46.0       |      |
|                              | Heating                          | Min            | °CWB | -15   |                                      | -15        |      |
|                              |                                  | Max            | °CWB | 18  |                                      | 18         |      |
| Sound Level (nominal)        | Cooling                          | Sound Power    | dBA  | 61.0  |                                      | 63.0       |      |
|                              |                                  | Sound Pressure | dBA  | 47.0  |                                      | 49.0       |      |
|                              | Heating                          | Sound Pressure | dBA  | 48.0  |                                      | 49.0       |      |
|                              |                                  |                |      |   |                                      |            |      |
| Refrigerant                  | Type                             |                |      | R-410A  |                                      |            |      |
|                              | Charge                           | kg             |      | 1.5   |                                      | 1.5        |      |
| Refrigerant Oil              | Type                             |                |      | FVC50K  |                                      |            |      |
|                              | Charged Volume                   |                | l    | 0.65  |                                      | 065        |      |
| Piping connections           | Liquid (OD)                      | Diameter (OD)  | mm   | 6.35  |                                      | 6.35       |      |
|                              | Gas                              | Diameter (OD)  | mm   | 12.7  |                                      | 12.7       |      |
|                              | Drain                            | Diameter (OD)  | mm   | 18  |                                      | 18         |      |
|                              | Piping Length                    | Maximum        | m    | 30  |                                      | 30         |      |
|                              | Additional Refrigerant Charge    |                | kg/m | 0.02/>10m   |                                      |            |      |
|                              | Max. internunit level difference |                | m    | 20.0  |                                      | 20.0       |      |
|                              | Heat Insulation                  |                |      | Both liquid and gas pipes   |                                      |            |      |
|                              | Item                             |                |      | Drain plug  |                                      |            |      |
| Standard Accessories         | Quantity                         |                |      | 1   |                                      | 1          |      |
|                              | Item                             |                |      | Installation manual   |                                      |            |      |
|                              | Quantity                         |                |      | 1   |                                      | 1          |      |
|                              |                                  |                |      |   |                                      |            |      |
| Notes                        |                                  |                |      | Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 7.5m, level difference : 0m. |                                      |            |      |
|                              |                                  |                |      | Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 7.5m, level difference : 0m    |                                      |            |      |
|                              |                                  |                |      | Sound levels are measured in an anechoic room   |                                      |            |      |
|                              |                                  |                |      | Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to sound level drawings of this chapter.     |                                      |            |      |
|                              |                                  |                |      | The sound power level is an absolute value indicating the power which a sound source generates.   |                                      |            |      |

| 2-3 ELECTRICAL SPECIFICATIONS |                                    |             |    | RYN50E3V1B      |  | RYN60E3V1B |  |
|-------------------------------|------------------------------------|-------------|----|-----------------|--|------------|--|
| Power Supply                  | Name                               |             |    | V1              |  |            |  |
|                               | Phase                              |             |    | 1               |  | 1          |  |
|                               | Frequency                          |             | Hz | 50              |  | 50         |  |
|                               | Voltage                            |             |    | 220-240         |  |            |  |
|                               | Voltage range                      | Minimum     | V  | -10%            |  |            |  |
|                               |                                    | Maximum     | V  | +10%            |  |            |  |
| Current                       | Nominal running current (RLA)      | Cooling (A) | A  | 6.75            |  | 8.62       |  |
|                               |                                    | Heating (A) | A  | 6.94            |  | 8.80       |  |
|                               | Starting current (cooling/heating) |             | A  | 7.1             |  | 9.0        |  |
|                               | Z-max                              | List        |    | No requirements |  |            |  |

## 2 Specifications

| 2-3 ELECTRICAL SPECIFICATIONS |                            |          | RYN50E3V1B             | RYN60E3V1B |
|-------------------------------|----------------------------|----------|------------------------|------------|
| Wiring connections            | For Power Supply           | Quantity | 3                      | 3          |
|                               |                            | Quantity | 4                      | 4          |
|                               | For connection with indoor | Remark   | Including earth wiring |            |
| Power Supply Intake           |                            |          | Outdoor unit only      |            |

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### 3 Features

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## 4 Capacity tables

### 4 - 1 Cooling/Heating capacity tables

| FTYN50F+RYN50E |             |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|----------------|-------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| Cooling        |             |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | AFR  |      | 14.7 |  |
| 50Hz 220-240V  |             |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | BF   |      | 0.28 |  |
| Indoor         |             | Outdoor temperature (°CDB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| EWB<br>(°C)    | EDB<br>(°C) | 20                         |      |      | 25   |      |      | 30   |      |      | 32   |      |      | 35   |      |      | 40   |      |      |      |  |
|                |             | TC                         | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |      |  |
| 14.0           | 20          | 5.12                       | 3.61 | 1.19 | 4.89 | 3.49 | 1.30 | 4.66 | 3.37 | 1.42 | 4.56 | 3.32 | 1.46 | 4.42 | 3.25 | 1.53 | 4.19 | 3.13 | 1.65 |      |  |
| 16.0           | 22          | 5.35                       | 3.55 | 1.20 | 5.12 | 3.43 | 1.31 | 4.89 | 3.32 | 1.43 | 4.79 | 3.27 | 1.47 | 4.65 | 3.21 | 1.54 | 4.42 | 3.10 | 1.65 |      |  |
| 18.0           | 25          | 5.58                       | 3.69 | 1.20 | 5.35 | 3.58 | 1.32 | 5.12 | 3.47 | 1.43 | 5.02 | 3.43 | 1.48 | 4.88 | 3.37 | 1.55 | 4.65 | 3.26 | 1.66 |      |  |
| 19.0           | 27          | 5.70                       | 3.86 | 1.21 | 5.47 | 3.75 | 1.32 | 5.23 | 3.65 | 1.44 | 5.14 | 3.61 | 1.48 | 5.00 | 3.55 | 1.55 | 4.77 | 3.45 | 1.66 |      |  |
| 22.0           | 30          | 6.04                       | 3.71 | 1.22 | 5.81 | 3.62 | 1.33 | 5.58 | 3.52 | 1.45 | 5.49 | 3.49 | 1.49 | 5.35 | 3.43 | 1.56 | 5.11 | 3.35 | 1.67 |      |  |
| 24.0           | 32          | 6.27                       | 3.60 | 1.22 | 6.04 | 3.52 | 1.34 | 5.81 | 3.43 | 1.45 | 5.72 | 3.40 | 1.50 | 5.58 | 3.35 | 1.57 | 5.34 | 3.27 | 1.68 |      |  |

| Heating       |             |                            |      |      |      |      |      |      |      |      |      | AFR |  | 16.1 |  |
|---------------|-------------|----------------------------|------|------|------|------|------|------|------|------|------|-----|--|------|--|
| 50Hz 220-240V |             |                            |      |      |      |      |      |      |      |      |      | BF  |  | 0.28 |  |
| Indoor        |             | Outdoor temperature (°CWB) |      |      |      |      |      |      |      |      |      |     |  |      |  |
| EDB<br>(°C)   | EWB<br>(°C) | -10                        |      | -5   |      | 0    |      | 6    |      | 10   |      |     |  |      |  |
|               |             | TC                         | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |     |  |      |  |
| 15.0          | 3.90        | 1.35                       | 4.56 | 1.42 | 5.21 | 1.48 | 6.00 | 1.56 | 6.52 | 1.62 | 7.00 |     |  |      |  |
| 20.0          | 3.70        | 1.39                       | 4.36 | 1.46 | 5.01 | 1.52 | 5.80 | 1.60 | 6.32 | 1.65 | 6.80 |     |  |      |  |
| 22.0          | 3.62        | 1.40                       | 4.28 | 1.47 | 4.93 | 1.54 | 5.72 | 1.61 | 6.24 | 1.67 | 6.70 |     |  |      |  |
| 24.0          | 3.54        | 1.42                       | 4.20 | 1.48 | 4.85 | 1.55 | 5.64 | 1.63 | 6.16 | 1.68 | 6.60 |     |  |      |  |
| 25.0          | 3.50        | 1.43                       | 4.16 | 1.49 | 4.81 | 1.56 | 5.60 | 1.64 | 6.12 | 1.69 | 6.50 |     |  |      |  |
| 27.0          | 3.42        | 1.44                       | 4.08 | 1.51 | 4.73 | 1.57 | 5.52 | 1.65 | 6.04 | 1.70 | 6.40 |     |  |      |  |

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| SYMBOLS |                           |                       | NOTES |   |  |
|---------|---------------------------|-----------------------|-------|---|--|
| AFR:    | Air flow rate             | (m <sup>3</sup> /min) | 1     | Ratings shown are net capacities which include a deduction for indoor fan motor heat  |  |
| BF:     | Bypass factor             |                       | 2     | [Shaded box] shows nominal (rated) capacities and power input.  |  |
| EWB:    | Entering wet bulb temp.   | (°C)                  | 3     | TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.) |  |
| EDB:    | Entering dry bulb temp.   | (°C)                  | 4     | About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.  |  |
| TC:     | Total capacity            | (kW)                  | 5     | Capacities are based on following conditions:<br>Corresponding refrigerant piping length: 7.5 m<br>Level difference: 0 m                                  |  |
| SHC:    | Sensible heating capacity | (kW)                  | 6     | Air flow rate (AFR) and Bypass factor (BF) are tabulated above.   |  |
| PI:     | Power input               | (kW)                  |       |   |  |

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# 4 Capacity tables

## 4 - 1 Cooling/Heating capacity tables

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| FTYN50FV1B+RYN50E3V1B |             |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|-----------------------|-------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| Cooling               |             |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | AFR  |      | 14.7 |  |
| 50Hz 220-240V         |             |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | BF   |      | 0.28 |  |
| Indoor                |             | Outdoor temperature (°CDB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| EWB<br>(°C)           | EDB<br>(°C) | 20                         |      |      | 25   |      |      | 30   |      |      | 32   |      |      | 35   |      |      | 40   |      |      |      |  |
|                       |             | TC                         | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |      |  |
| 14.0                  | 20          | 5.12                       | 3.61 | 1.19 | 4.89 | 3.49 | 1.30 | 4.66 | 3.37 | 1.42 | 4.56 | 3.32 | 1.46 | 4.42 | 3.25 | 1.53 | 4.19 | 3.13 | 1.65 |      |  |
| 16.0                  | 22          | 5.35                       | 3.55 | 1.20 | 5.12 | 3.43 | 1.31 | 4.89 | 3.32 | 1.43 | 4.79 | 3.27 | 1.47 | 4.65 | 3.21 | 1.54 | 4.42 | 3.10 | 1.65 |      |  |
| 18.0                  | 25          | 5.58                       | 3.69 | 1.20 | 5.35 | 3.58 | 1.32 | 5.12 | 3.47 | 1.43 | 5.02 | 3.43 | 1.48 | 4.88 | 3.37 | 1.55 | 4.65 | 3.26 | 1.66 |      |  |
| 19.0                  | 27          | 5.70                       | 3.86 | 1.21 | 5.47 | 3.75 | 1.32 | 5.23 | 3.65 | 1.44 | 5.14 | 3.61 | 1.48 | 5.00 | 3.55 | 1.55 | 4.77 | 3.45 | 1.66 |      |  |
| 22.0                  | 30          | 6.04                       | 3.71 | 1.22 | 5.81 | 3.62 | 1.33 | 5.58 | 3.52 | 1.45 | 5.49 | 3.49 | 1.49 | 5.35 | 3.43 | 1.56 | 5.11 | 3.35 | 1.67 |      |  |
| 24.0                  | 32          | 6.27                       | 3.60 | 1.22 | 6.04 | 3.52 | 1.34 | 5.81 | 3.43 | 1.45 | 5.72 | 3.40 | 1.50 | 5.58 | 3.35 | 1.57 | 5.34 | 3.27 | 1.68 |      |  |

| Heating       |             |                            |      |      |      |      |      |      |      |      |    | AFR |  | 16.1 |  |
|---------------|-------------|----------------------------|------|------|------|------|------|------|------|------|----|-----|--|------|--|
| 50Hz 220-240V |             |                            |      |      |      |      |      |      |      |      |    | BF  |  | 0.28 |  |
| Indoor        |             | Outdoor temperature (°CWB) |      |      |      |      |      |      |      |      |    |     |  |      |  |
| EWB<br>(°C)   | EDB<br>(°C) | -10                        |      | -5   |      | 0    |      | 6    |      | 10   |    |     |  |      |  |
|               |             | TC                         | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI |     |  |      |  |
| 15.0          | 3.90        | 1.35                       | 4.56 | 1.42 | 5.21 | 1.48 | 6.00 | 1.56 | 6.52 | 1.62 |    |     |  |      |  |
| 20.0          | 3.70        | 1.39                       | 4.36 | 1.46 | 5.01 | 1.52 | 5.80 | 1.60 | 6.32 | 1.65 |    |     |  |      |  |
| 22.0          | 3.62        | 1.40                       | 4.28 | 1.47 | 4.93 | 1.54 | 5.72 | 1.61 | 6.24 | 1.67 |    |     |  |      |  |
| 24.0          | 3.54        | 1.42                       | 4.20 | 1.48 | 4.85 | 1.55 | 5.64 | 1.63 | 6.16 | 1.68 |    |     |  |      |  |
| 25.0          | 3.50        | 1.43                       | 4.16 | 1.49 | 4.81 | 1.56 | 5.60 | 1.64 | 6.12 | 1.69 |    |     |  |      |  |
| 27.0          | 3.42        | 1.44                       | 4.08 | 1.51 | 4.73 | 1.57 | 5.52 | 1.65 | 6.04 | 1.70 |    |     |  |      |  |

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| SYMBOLS |                           |                       | NOTES |   |  |
|---------|---------------------------|-----------------------|-------|---|--|
| AFR:    | Air flow rate             | (m <sup>3</sup> /min) | 1     | Ratings shown are net capacities which include a deduction for indoor fan motor heat  |  |
| BF:     | Bypass factor             |                       | 2     | [shaded box] shows nominal (rated) capacities and power input.  |  |
| EWB:    | Entering wet bulb temp.   | (°C)                  | 3     | TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.) |  |
| EDB:    | Entering dry bulb temp.   | (°C)                  | 4     | About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.  |  |
| TC:     | Total capacity            | (kW)                  | 5     | Capacities are based on following conditions:   |  |
| SHC:    | Sensible heating capacity | (kW)                  |       | Corresponding refrigerant piping length: 7.5 m  |  |
| PI:     | Power input               | (kW)                  | 6     | Level difference: 0 m   |  |
|         |                           |                       |       | Air flow rate (AFR) and Bypass factor (BF) are tabulated above.   |  |

## 4 Capacity tables

### 4 - 1 Cooling/Heating capacity tables

| FTYN60FV1B+RYN60E3V1B |             |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|-----------------------|-------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| Cooling               |             |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | AFR  |      | 16.2 |  |
| 50Hz 220-240V         |             |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | BF   |      | 0.29 |  |
| Indoor                |             | Outdoor temperature (°CDB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| EWB<br>(°C)           | EDB<br>(°C) | 20                         |      |      | 25   |      |      | 30   |      |      | 32   |      |      | 35   |      |      | 40   |      |      |      |  |
|                       |             | TC                         | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |      |  |
| 14.0                  | 20          | 5.60                       | 3.94 | 1.49 | 5.60 | 3.94 | 1.66 | 5.59 | 3.94 | 1.82 | 5.48 | 3.88 | 1.88 | 5.31 | 3.79 | 1.97 | 5.03 | 3.64 | 2.12 |      |  |
| 16.0                  | 22          | 6.42                       | 4.17 | 1.54 | 6.14 | 4.02 | 1.68 | 5.86 | 3.88 | 1.83 | 5.75 | 3.82 | 1.89 | 5.59 | 3.74 | 1.98 | 5.31 | 3.60 | 2.12 |      |  |
| 18.0                  | 25          | 6.70                       | 4.31 | 1.54 | 6.42 | 4.17 | 1.69 | 6.14 | 4.04 | 1.84 | 6.03 | 3.99 | 1.90 | 5.86 | 3.91 | 1.99 | 5.58 | 3.78 | 2.13 |      |  |
| 19.0                  | 27          | 6.84                       | 4.49 | 1.55 | 6.56 | 4.36 | 1.70 | 6.28 | 4.23 | 1.84 | 6.17 | 4.18 | 1.90 | 6.00 | 4.10 | 1.99 | 5.72 | 3.98 | 2.14 |      |  |
| 22.0                  | 30          | 7.25                       | 4.31 | 1.56 | 6.97 | 4.19 | 1.71 | 6.69 | 4.08 | 1.86 | 6.58 | 4.04 | 1.91 | 6.41 | 3.97 | 2.00 | 6.14 | 3.86 | 2.15 |      |  |
| 24.0                  | 32          | 7.53                       | 4.18 | 1.57 | 7.25 | 4.07 | 1.72 | 6.97 | 3.97 | 1.86 | 6.86 | 3.93 | 1.92 | 6.69 | 3.87 | 2.01 | 6.41 | 3.77 | 2.16 |      |  |

| Heating       |             |                            |      |      |      |      |      |      |      |      |    | AFR |  | 17.4 |  |
|---------------|-------------|----------------------------|------|------|------|------|------|------|------|------|----|-----|--|------|--|
| 50Hz 220-240V |             |                            |      |      |      |      |      |      |      |      |    | BF  |  | 0.29 |  |
| Indoor        |             | Outdoor temperature (°CWB) |      |      |      |      |      |      |      |      |    |     |  |      |  |
| EDB<br>(°C)   | EWB<br>(°C) | -10                        |      | -5   |      | 0    |      | 6    |      | 10   |    |     |  |      |  |
|               |             | TC                         | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI |     |  |      |  |
| 15.0          | 4.71        | 1.73                       | 5.50 | 1.81 | 6.29 | 1.89 | 7.24 | 1.99 | 7.87 | 2.06 |    |     |  |      |  |
| 20.0          | 4.47        | 1.77                       | 5.26 | 1.86 | 6.05 | 1.94 | 7.00 | 2.04 | 7.63 | 2.11 |    |     |  |      |  |
| 22.0          | 4.37        | 1.79                       | 5.16 | 1.87 | 5.95 | 1.96 | 6.90 | 2.06 | 7.54 | 2.13 |    |     |  |      |  |
| 24.0          | 4.28        | 1.81                       | 5.07 | 1.89 | 5.86 | 1.98 | 6.81 | 2.08 | 7.44 | 2.14 |    |     |  |      |  |
| 25.0          | 4.23        | 1.82                       | 5.02 | 1.90 | 5.81 | 1.99 | 6.76 | 2.09 | 7.39 | 2.15 |    |     |  |      |  |
| 27.0          | 4.13        | 1.84                       | 4.92 | 1.92 | 5.71 | 2.00 | 6.66 | 2.10 | 7.29 | 2.17 |    |     |  |      |  |

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| SYMBOLS |                           |                       | NOTES |   |  |
|---------|---------------------------|-----------------------|-------|---|--|
| AFR:    | Air flow rate             | (m <sup>3</sup> /min) | 1     | Ratings shown are net capacities which include a deduction for indoor fan motor heat  |  |
| BF:     | Bypass factor             |                       | 2     | ■ shows nominal (rated) capacities and power input.   |  |
| EWB:    | Entering wet bulb temp.   | (°C)                  | 3     | TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.) |  |
| EDB:    | Entering dry bulb temp.   | (°C)                  | 4     | About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.  |  |
| TC:     | Total capacity            | (kW)                  | 5     | Capacities are based on following conditions:   |  |
| SHC:    | Sensible heating capacity | (kW)                  |       | Corresponding refrigerant piping length: 7.5 m  |  |
| PI:     | Power input               | (kW)                  |       | Level difference: 0 m   |  |
|         |                           |                       | 6     | Air flow rate (AFR) and Bypass factor (BF) are tabulated above.   |  |

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# 4 Capacity tables

## 4 - 1 Cooling/Heating capacity tables

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| FTYN60F+RYN60E |             |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|----------------|-------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| Cooling        |             |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | AFR  |      | 16.2 |  |
| 50Hz 220-240V  |             |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | BF   |      | 0.29 |  |
| Indoor         |             | Outdoor temperature (°CDB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| EWB<br>(°C)    | EDB<br>(°C) | 20                         |      |      | 25   |      |      | 30   |      |      | 32   |      |      | 35   |      |      | 40   |      |      |      |  |
|                |             | TC                         | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |      |  |
| 14.0           | 20          | 5.60                       | 3.94 | 1.49 | 5.60 | 3.94 | 1.66 | 5.59 | 3.94 | 1.82 | 5.48 | 3.88 | 1.88 | 5.31 | 3.79 | 1.97 | 5.03 | 3.64 | 2.12 |      |  |
| 16.0           | 22          | 6.42                       | 4.17 | 1.54 | 6.14 | 4.02 | 1.68 | 5.86 | 3.88 | 1.83 | 5.75 | 3.82 | 1.89 | 5.59 | 3.74 | 1.98 | 5.31 | 3.60 | 2.12 |      |  |
| 18.0           | 25          | 6.70                       | 4.31 | 1.54 | 6.42 | 4.17 | 1.69 | 6.14 | 4.04 | 1.84 | 6.03 | 3.99 | 1.90 | 5.86 | 3.91 | 1.99 | 5.58 | 3.78 | 2.13 |      |  |
| 19.0           | 27          | 6.84                       | 4.49 | 1.55 | 6.56 | 4.36 | 1.70 | 6.28 | 4.23 | 1.84 | 6.17 | 4.18 | 1.90 | 6.00 | 4.10 | 1.90 | 5.72 | 3.98 | 2.14 |      |  |
| 22.0           | 30          | 7.25                       | 4.31 | 1.56 | 6.97 | 4.19 | 1.71 | 6.69 | 4.08 | 1.86 | 6.58 | 4.04 | 1.91 | 6.41 | 3.97 | 2.00 | 6.14 | 3.86 | 2.15 |      |  |
| 24.0           | 32          | 7.53                       | 4.18 | 1.57 | 7.25 | 4.07 | 1.72 | 6.97 | 3.97 | 1.86 | 6.86 | 3.93 | 1.92 | 6.69 | 3.87 | 2.01 | 6.41 | 3.77 | 2.16 |      |  |

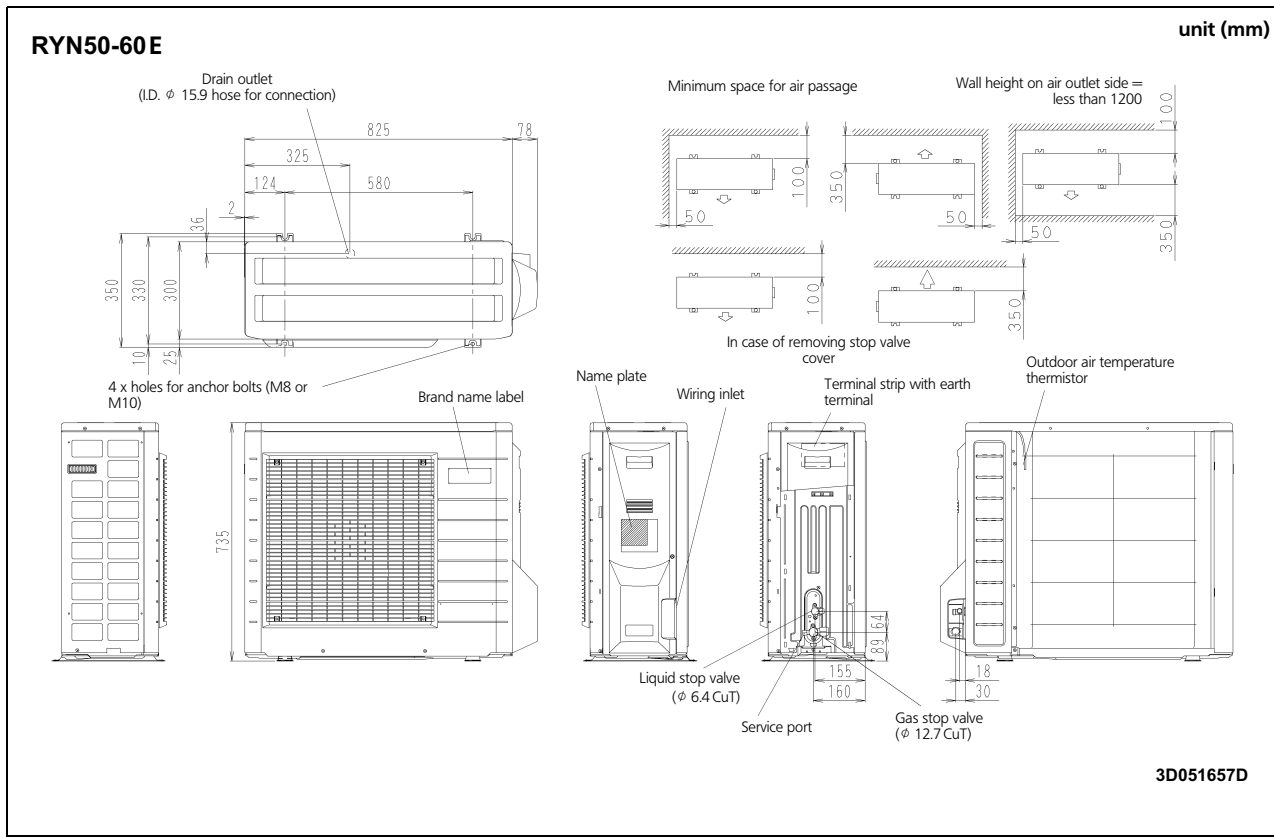
| Heating       |  |                            |      |      |      |      |      |      |      |      |      | AFR |  | 17.4 |  |
|---------------|--|----------------------------|------|------|------|------|------|------|------|------|------|-----|--|------|--|
| 50Hz 220-240V |  |                            |      |      |      |      |      |      |      |      |      | BF  |  |      |  |
| Indoor        |  | Outdoor temperature (°CWB) |      |      |      |      |      |      |      |      |      |     |  |      |  |
| EDB<br>(°C)   |  | -10                        |      | -5   |      | 0    |      | 6    |      | 10   |      |     |  |      |  |
|               |  | TC                         | PI   | TC   | PI   | TC   | PI   | TC   | PI   | TC   | PI   |     |  |      |  |
| 15.0          |  | 4.71                       | 1.73 | 5.50 | 1.81 | 6.29 | 1.89 | 7.24 | 1.99 | 7.87 | 2.06 |     |  |      |  |
| 20.0          |  | 4.47                       | 1.77 | 5.26 | 1.86 | 6.05 | 1.94 | 7.00 | 2.04 | 7.63 | 2.11 |     |  |      |  |
| 22.0          |  | 4.37                       | 1.79 | 5.16 | 1.87 | 5.95 | 1.96 | 6.90 | 2.06 | 7.54 | 2.13 |     |  |      |  |
| 24.0          |  | 4.28                       | 1.81 | 5.07 | 1.89 | 5.86 | 1.98 | 6.81 | 2.08 | 7.44 | 2.14 |     |  |      |  |
| 25.0          |  | 4.23                       | 1.82 | 5.02 | 1.90 | 5.81 | 1.99 | 6.76 | 2.09 | 7.39 | 2.15 |     |  |      |  |
| 27.0          |  | 4.13                       | 1.84 | 4.92 | 1.92 | 5.71 | 2.00 | 6.66 | 2.10 | 7.29 | 2.17 |     |  |      |  |

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| SYMBOLS |                           |                       | NOTES |   |  |
|---------|---------------------------|-----------------------|-------|---|--|
| AFR:    | Air flow rate             | (m <sup>3</sup> /min) | 1     | Ratings shown are net capacities which include a deduction for indoor fan motor heat  |  |
| BF:     | Bypass factor             |                       | 2     | <div style="display: inline-block; width: 15px; height: 10px; background-color: #cccccc; border: 1px solid black;"></div> shows nominal (rated) capacities and power input. |  |
| EWB:    | Entering wet bulb temp.   | (°C)                  | 3     | TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)                   |  |
| EDB:    | Entering dry bulb temp.   | (°C)                  | 4     | About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.  |  |
| TC:     | Total capacity            | (kW)                  | 5     | Capacities are based on following conditions:   |  |
| SHC:    | Sensible heating capacity | (kW)                  |       | Corresponding refrigerant piping length: 7.5 m  |  |
| PI:     | Power input               | (kW)                  | 6     | Level difference: 0 m   |  |
|         |                           |                       |       | Air flow rate (AFR) and Bypass factor (BF) are tabulated above.   |  |

# 5 Dimensional drawing & centre of gravity

## 5 - 1 Dimensional drawing

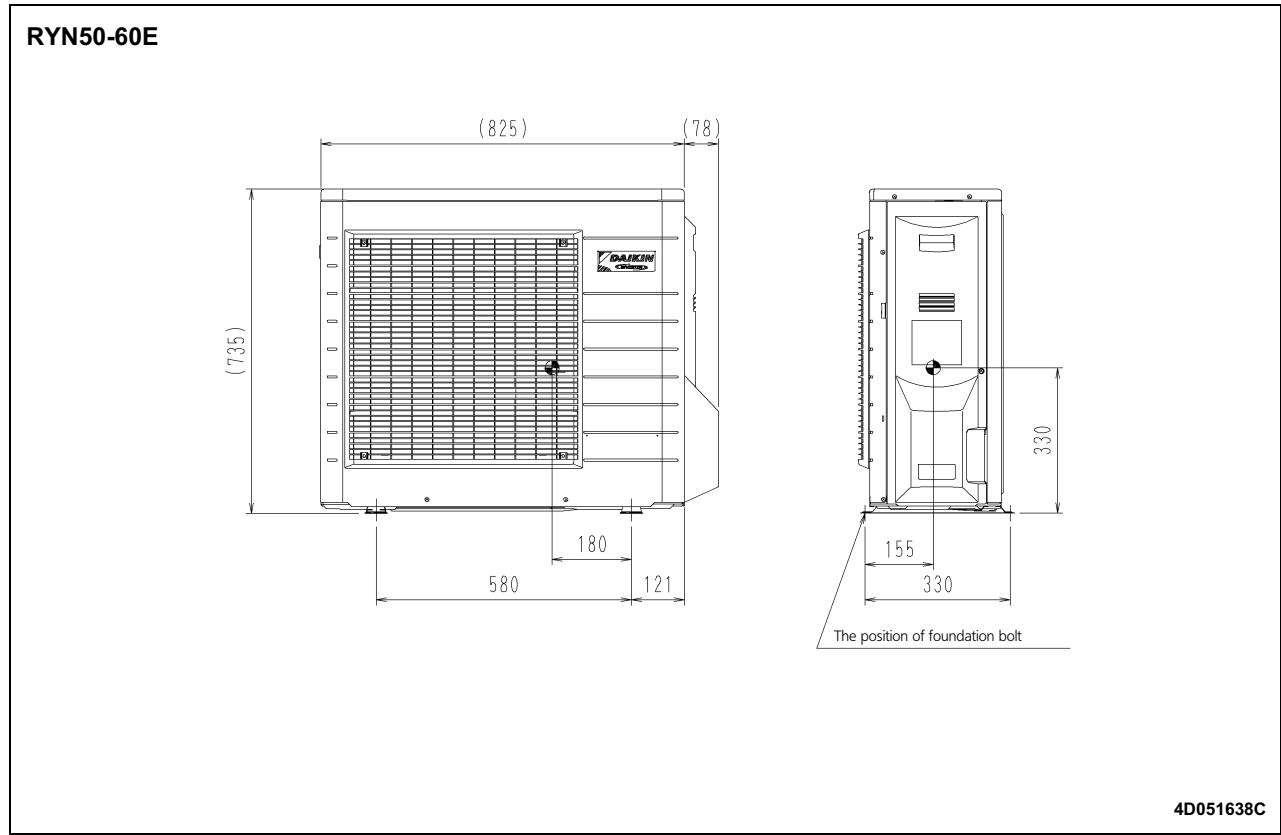


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## 5 Dimensional drawing & centre of gravity

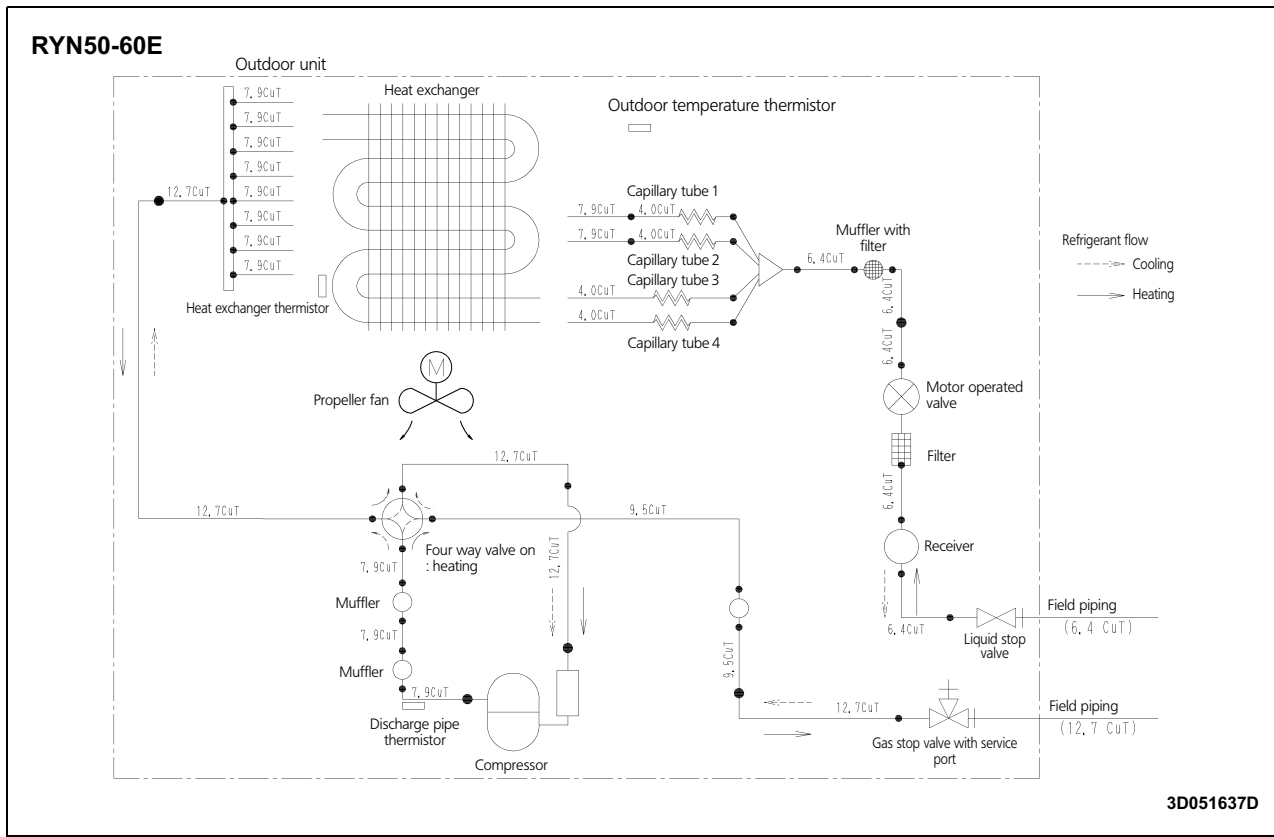
### 5 - 2 Centre of gravity

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# 6 Piping diagram

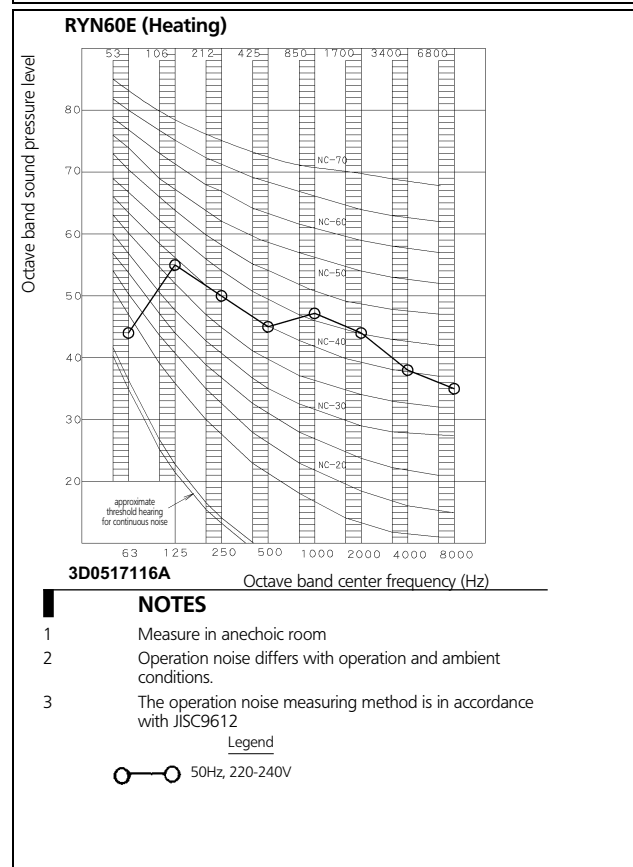
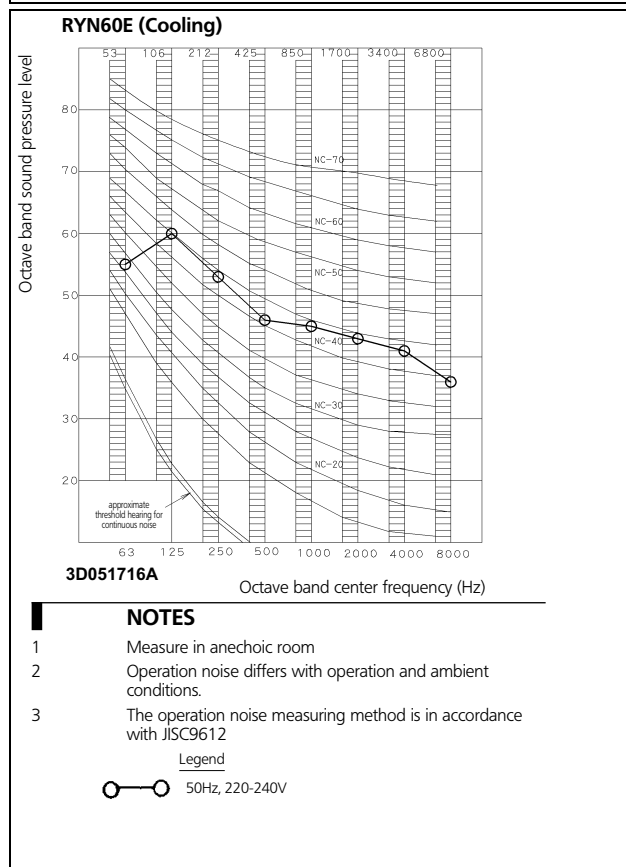
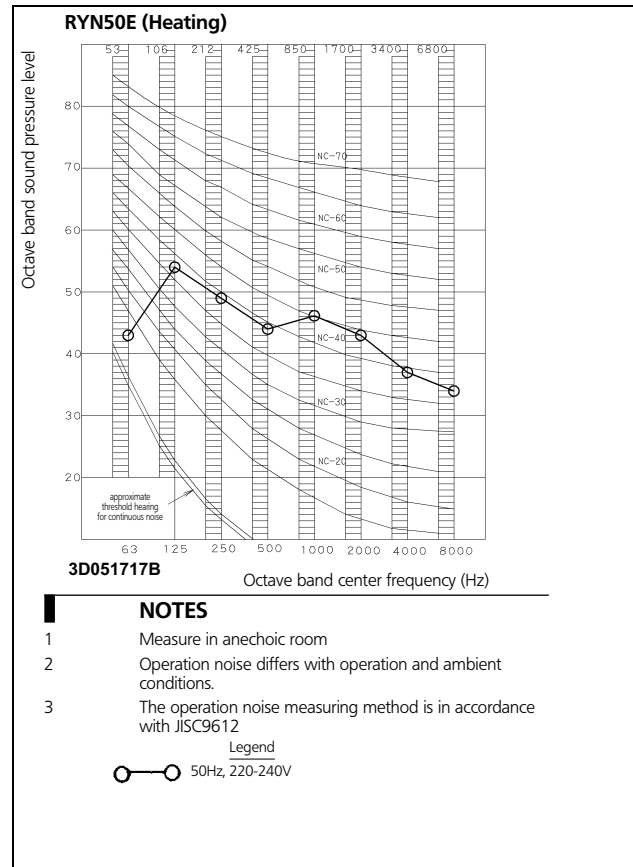
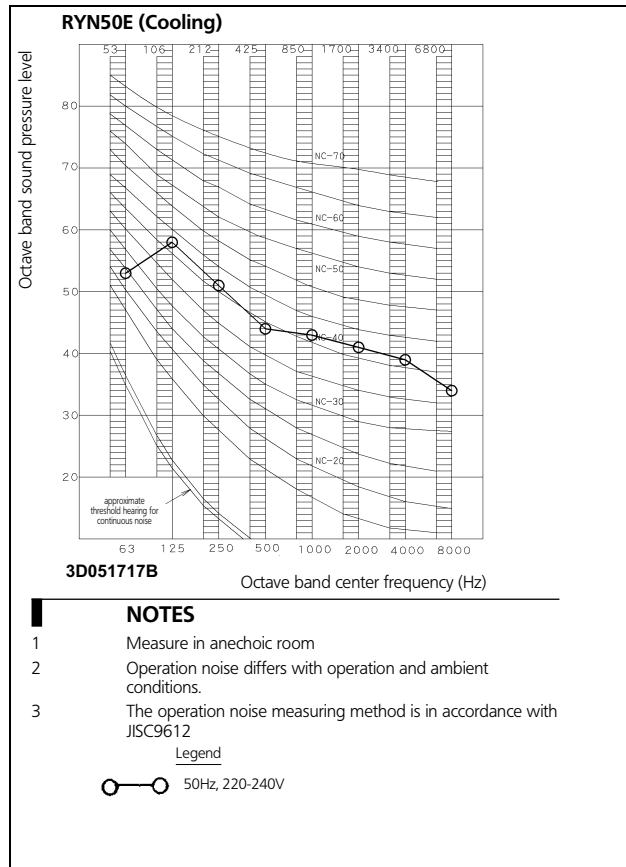
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# 7 Sound data

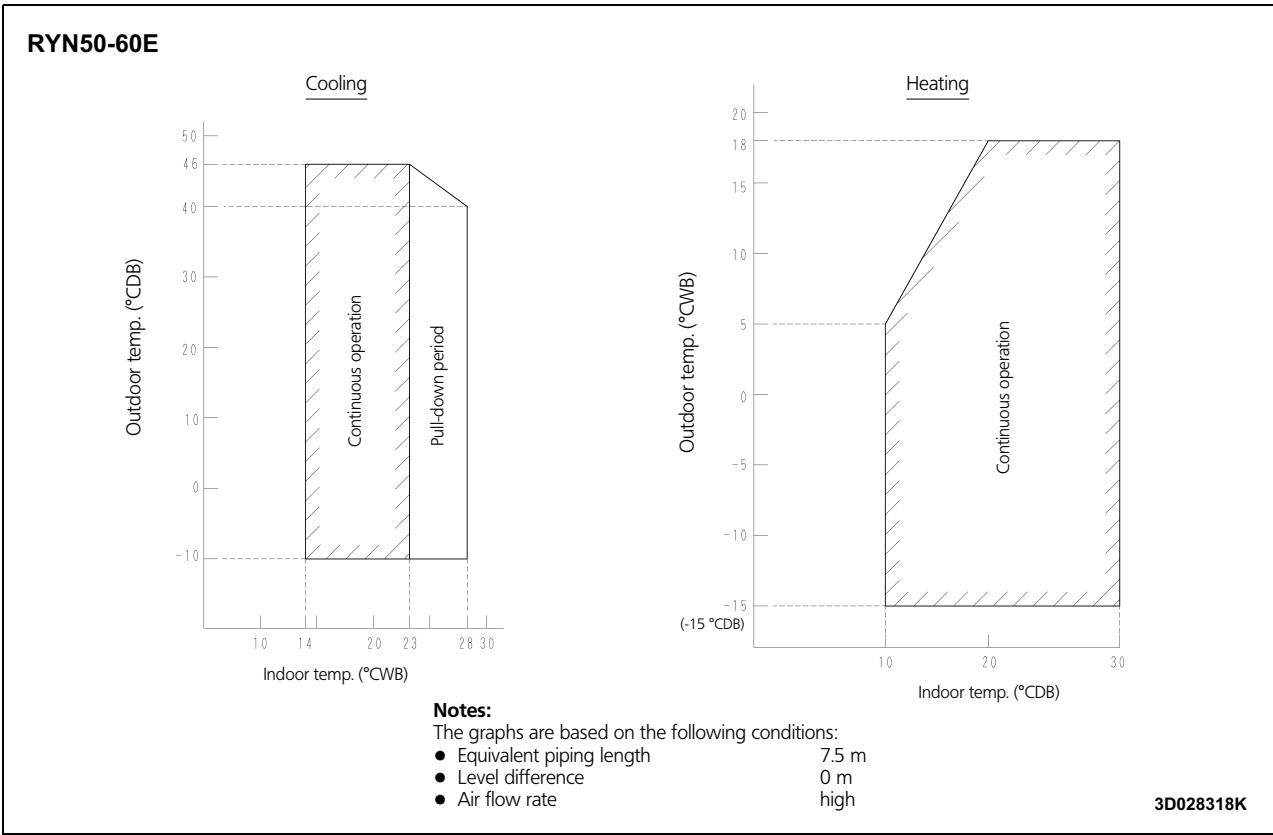
## 7 - 1 Sound pressure spectrum

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# 8 Operation range

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## 8 Operation range

