

Floor standing unit  
Air Conditioning  
Technical Data  
FVXTM-A





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## FVXTM-A

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# 1 Features

## 1 - 1 FVXTM-A

Design floor standing unit for optimal heating comfort down to -30°C thanks to unique heating features

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- › Guaranteed heating capacity at low ambient temperature, down to -30°C
- › Seasonal efficiency values: full range A++ in cooling and heating
- › Heat boost quickly heats up your home when starting up your air conditioner. Set temperature is reached 14% faster than a regular air conditioner (pair only)
- › The floor warming function optimises convection by distributing hot air from the bottom of the unit
- › The heat plus function provides 30 minutes cosy heating by simulating radiant heat
- › Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air
- › Excellent contemporary design
- › Dual air discharge flow for better air distribution
- › Onecta app: control your indoor from any location with an app, via your local network or internet.
- › Quiet operation: down to 19dBA sound pressure level



Heat boost



Floor warming



Heat plus



Guaranteed operation down to -30°C



Onecta app



Econo mode



Energy saving during standby mode



Night set mode



Fan only



Draught prevention



Powerful mode



Auto cooling-heating changeover



Indoor unit silent operation



Outdoor unit silent operation



Vertical auto swing



Auto fan speed



Fan speed steps (5 steps)



Dry programme

# 1 Features

1 - 1 FVXTM-A



Flash Streamer



Practically inaudible



Titanium apatite deodorising filter



Air filter



Weekly timer



24 hour timer



Infrared remote control



Wired remote control



Centralised control



Auto-restart

## 2 Specifications

### 2 - 1 Specifications

| Technical specifications |                  |           |                     |                     | FVXTM30A                          |                       |      |       |
|--------------------------|------------------|-----------|---------------------|---------------------|-----------------------------------|-----------------------|------|-------|
| Power input              | Cooling          | Nom.      |                     | kW                  | 0.020                             |                       |      |       |
|                          | Heating          | Nom.      |                     | kW                  | 0.030                             |                       |      |       |
| Casing                   | Colour           |           |                     |                     | White                             |                       |      |       |
| Dimensions               | Unit             | Height    |                     | mm                  | 600                               |                       |      |       |
|                          |                  | Width     |                     | mm                  | 750                               |                       |      |       |
|                          |                  | Depth     |                     | mm                  | 238                               |                       |      |       |
|                          | Packed unit      | Height    |                     | mm                  | 765                               |                       |      |       |
|                          |                  | Width     |                     | mm                  | 885                               |                       |      |       |
|                          |                  | Depth     |                     | mm                  | 330                               |                       |      |       |
| Weight                   | Unit             |           |                     | kg                  | 17                                |                       |      |       |
|                          | Packed unit      |           |                     | kg                  | 22                                |                       |      |       |
| Packing                  | Weight           |           |                     |                     | kg                                | 5                     |      |       |
| Heat exchanger           | Length           |           |                     |                     | mm                                | 540                   |      |       |
|                          | Rows             | Quantity  |                     |                     |                                   | 2                     |      |       |
|                          |                  | Fin pitch |                     |                     |                                   | mm                    | 1.20 |       |
|                          | Stages           | Quantity  |                     |                     |                                   | 22                    |      |       |
|                          |                  | Passes    |                     |                     |                                   | Quantity              | 6.0  |       |
|                          | Tube type        |           |                     |                     |                                   | ø5 Hi-XB              |      |       |
|                          | Fin              | Type      |                     |                     |                                   | ML fin (Multi louver) |      |       |
|                          |                  | Length    |                     |                     |                                   | mm                    | 490  |       |
|                          | Heat exchanger 2 | Rows      | Quantity            |                     |                                   |                       | 1    |       |
|                          |                  |           | Fin pitch           |                     |                                   |                       | mm   | 1.20  |
| Stages                   |                  | Quantity  |                     |                     |                                   | 22                    |      |       |
|                          | Fan              | Type      |                     |                     |                                   | Turbo fan             |      |       |
| Air flow rate            |                  | Cooling   | High                | m <sup>3</sup> /min |                                   | 9.0                   |      |       |
|                          |                  |           |                     | cfm                 |                                   | 318                   |      |       |
|                          |                  |           |                     | Medium              | m <sup>3</sup> /min               |                       | 6.7  |       |
|                          |                  |           | cfm                 |                     | 237                               |                       |      |       |
|                          |                  |           | Low                 | m <sup>3</sup> /min |                                   | 4.8                   |      |       |
| cfm                      |                  |           | 170                 |                     |                                   |                       |      |       |
| Heating                  |                  | High      | Silent operation    |                     | m <sup>3</sup> /min               | 4.0                   |      |       |
|                          |                  |           | cfm                 |                     | 141                               |                       |      |       |
|                          |                  |           | Medium              | m <sup>3</sup> /min |                                   | 9.4                   |      |       |
|                          | cfm              |           |                     |                     | 332                               |                       |      |       |
|                          | Low              |           | m <sup>3</sup> /min |                     | 6.8                               |                       |      |       |
| cfm                      |                  | 240       |                     |                     |                                   |                       |      |       |
| Fan                      | Air flow rate    | Heating   | Low                 | m <sup>3</sup> /min | 5.3                               |                       |      |       |
|                          |                  |           |                     | cfm                 |                                   | 187                   |      |       |
|                          |                  |           |                     | Silent operation    |                                   | m <sup>3</sup> /min   | 4.0  |       |
| cfm                      |                  | 141       |                     |                     |                                   |                       |      |       |
| Fan motor                | Model            |           |                     |                     | ZWA138L50A                        |                       |      |       |
|                          | Type             |           |                     |                     | DC motor                          |                       |      |       |
|                          | Speed            | Steps     |                     |                     |                                   | 5 + silent, + auto    |      |       |
|                          |                  | Cooling   | High                | rpm                 |                                   | 710                   |      |       |
|                          |                  |           |                     | rpm                 |                                   | 550                   |      |       |
|                          |                  |           |                     | rpm                 |                                   | 410                   |      |       |
|                          |                  |           |                     | rpm                 |                                   | 350                   |      |       |
|                          |                  | Heating   | High                | rpm                 |                                   | 750                   |      |       |
|                          |                  |           |                     | rpm                 |                                   | 570                   |      |       |
|                          |                  |           |                     | rpm                 |                                   | 460                   |      |       |
| rpm                      |                  |           |                     | 360                 |                                   |                       |      |       |
| Sound power level        | Cooling          |           |                     |                     | dB(A)                             | 53.0                  |      |       |
|                          | Heating          |           |                     |                     | dB(A)                             | 53.0                  |      |       |
| Sound pressure level     | Cooling          | High      | dB(A)               |                     | 39.0                              |                       |      |       |
|                          |                  |           | dB(A)               |                     | 32.0                              |                       |      |       |
|                          |                  |           | dB(A)               |                     | 25.0                              |                       |      |       |
|                          |                  |           | dB(A)               |                     | 20.0                              |                       |      |       |
|                          | Heating          | High      | dB(A)               |                     | 39.0                              |                       |      |       |
|                          |                  |           | dB(A)               |                     | 32.0                              |                       |      |       |
|                          |                  |           | dB(A)               |                     | 25.0                              |                       |      |       |
|                          |                  |           | dB(A)               |                     | 19.0                              |                       |      |       |
|                          |                  |           | Refrigerant         |                     |                                   |                       | Type | R-32  |
|                          |                  |           | GWP                 |                     |                                   |                       |      | 675.0 |
| Piping connections       | Liquid           | OD        | mm                  |                     | 6.35                              |                       |      |       |
|                          |                  |           | mm                  |                     | 9.50                              |                       |      |       |
|                          | Drain            |           |                     |                     | VP20 (I.D. 20/O.D. 26)            |                       |      |       |
|                          | Heat insulation  |           |                     |                     | Both liquid and gas pipes         |                       |      |       |
| Air filter               | Type             |           |                     |                     | Removable / washable              |                       |      |       |
|                          | Quantity         |           |                     |                     | pc                                | 1                     |      |       |
| Air direction control    |                  |           |                     |                     | Right, Left, Horizontal, Downward |                       |      |       |
| Temperature control      |                  |           |                     |                     | Microcomputer control             |                       |      |       |

## 2 Specifications

### 2 - 1 Specifications

| Technical specifications |                         | FVXTM30A  |
|--------------------------|-------------------------|-----------|
| Control systems          | Infrared remote control | ARC466A66 |
|                          | Wired remote control    | BRC073A1  |

Standard accessories: Installation manual;Quantity: 1;

Standard accessories: Operation manual;Quantity: 1;

Standard accessories: Wireless remote control;Quantity: 1;

Standard accessories: Remote control holder;Quantity: 1;

Standard accessories: AAA dry-cell batteries;Quantity: 2;

Standard accessories: Titanium apatite deodorizing filter;Quantity: 2;

Standard accessories: Screw bag;Quantity: 2;

Standard accessories: General safety precautions;Quantity: 1;

| Electrical specifications   |                               | FVXTM30A   |
|-----------------------------|-------------------------------|--|
| Power supply                | Phase                         | 1~   |
|                             | Frequency                     | 50   |
|                             | Voltage                       | 220-240  |
| Wiring connections<br>-50Hz | For power supply              | 3  |
|                             | Quantity                      | 3 for power supply, 4 for interunit wiring (Earth wire included) |
| Current                     | Nominal running current (RLA) | 0.14   |
|                             | Cooling                       | A  |

Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB, 24°CWB; equivalent piping length: 5m |

Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m |

See separate drawing for electrical data

# 3 Options

## 3 - 1 Options

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### FVXTM-A

| Option kit   | Product name | Remark<br>New Perfera | Remark<br>New floor stand | Remark<br>Emura 3 | Remark<br>Zeta S | Applicable models         | Class | Casing      | Factory | A-MID          |                | Zeta                         |                    |
|--|--------------|-----------------------|---------------------------|-------------------|------------------|---------------------------|-------|-------------|---------|----------------|----------------|------------------------------|--------------------|
|  |              |                       |                           |                   |                  |                           |       |             |         | OHS<br>Perfera | OHS<br>Emura 3 | OHS<br>New floor<br>standing | A2-D1Cz<br>AS-DTAS |
| Wired remote control   | BRC073A1     | (2)(3)                | (2)(3)                    | (2)(3)            | (2)(3)           | FTXM30S2Y1B               | 30    | R32 BMS     |         |                |                |                              |                    |
| Extension cord for wired remote control (3-m)                    | BRCW901A03   |                       |                           |                   |                  | FTXM40S2Y1B               | 40    | R32 BML     | D1Cz    |                |                |                              |                    |
| Extension cord for wired remote control (8-m)                    | BRCW901A08   |                       |                           |                   |                  | FTXM30A2Y1BW              | 30    | Emura 3     | D1Cz    |                |                |                              |                    |
| Intelligent Tablet Controller                                    | DCC601A51    | (2)(3)                | (2)(3)                    | (2)(3)            | (2)(3)           | FTXM30A2Y1BB              | 30    | Emura 3     |         |                |                |                              |                    |
| Wiring adaptor (normal open contact - normal open pulse contact) | KRP413AB1S   |                       | (2)(3)                    | (2)(3)            | (2)(3)           | FVXTM30A3Y1B              | 30    | Floor stand |         |                |                |                              |                    |
| Interface adaptor for DIII-NET                                   | KRP9288B2S   |                       | (2)(3)                    | (2)(3)            | (2)(3)           | CTM15A2Y1B / CTM15A5Y1B   | 15    |             |         |                |                |                              |                    |
| Central remote control   | DCS302CA51   | (2)(3)                | (2)(3)                    | (2)(3)            | (2)(3)           | FTXM20A2Y1B / FTXM20A5Y1B | 20    |             |         |                |                |                              |                    |
| Unified ON/OFF controller  | DCS301BA51   | (2)(3)                | (2)(3)                    | (2)(3)            | (2)(3)           | FTXM25A2Y1B / FTXM25A5Y1B | 25    |             |         |                |                |                              |                    |
| Schedule timer   | DST301BA51   | (2)(3)                | (2)(3)                    | (2)(3)            | (2)(3)           | FTXM35A2Y1B / FTXM35A5Y1B | 35    |             |         |                |                |                              |                    |
| Intelligent Touch Manager  | DCM601A5A    | (2)(3)                | (2)(3)                    | (2)(3)            | (2)(3)           | FTXM42A2Y1B / FTXM42A5Y1B | 42    |             |         |                |                |                              |                    |
| Modbus interface   | EKM8DXA7V1   | (2)(3)                | (2)(3)                    | (2)(3)            | (2)(3)           | FTXM50A2Y1B / FTXM50A5Y1B | 50    |             |         |                |                |                              |                    |
| Modbus gateway   | RTD-RA       | (2)(3)                | (2)(3)                    | (2)(3)            | (2)(3)           | FTXM60A2Y1B               | 60    |             |         |                |                |                              |                    |
| KNX interface  | KLIC-DD      | (2)(3)                | (2)(3)                    | (2)(3)            | (2)(3)           | FTXM70A2Y1B               | 70    |             |         |                |                |                              |                    |
| Titanium apatite deodorising filter without frame                | KAF970A46    | (1)                   | (1)                       | (1)               | (1)              | ATXM20A2Y1B / ATXM20A5Y1B | 20    |             |         |                |                |                              |                    |
| Silver particle filter (Ag-ion) with frame                       | KAF057A41    | (1)                   | (1)                       | (1)               | (1)              | ATXM25A2Y1B / ATXM25A5Y1B | 25    |             |         |                |                |                              |                    |
| Conversion wire harness  | EKRS21       |                       |                           |                   |                  | ATXM35A2Y1B / ATXM35A5Y1B | 35    |             |         |                |                |                              |                    |
|  |              |                       |                           |                   |                  | ATXM50A2Y1B / ATXM50A5Y1B | 50    |             |         |                |                |                              |                    |

Notes

- Standard accessory
- This option features a(n) -S21- connector. To connect this option to the indoor unit, therefore conversion wire harness -EKRS21- is required.
- This option cannot operate together with the wireless LAN functionality that is a standard feature of the indoor unit.  
When connecting this option to the indoor unit, turn off the indoor unit's wireless LAN functionality.
- Obsolete option

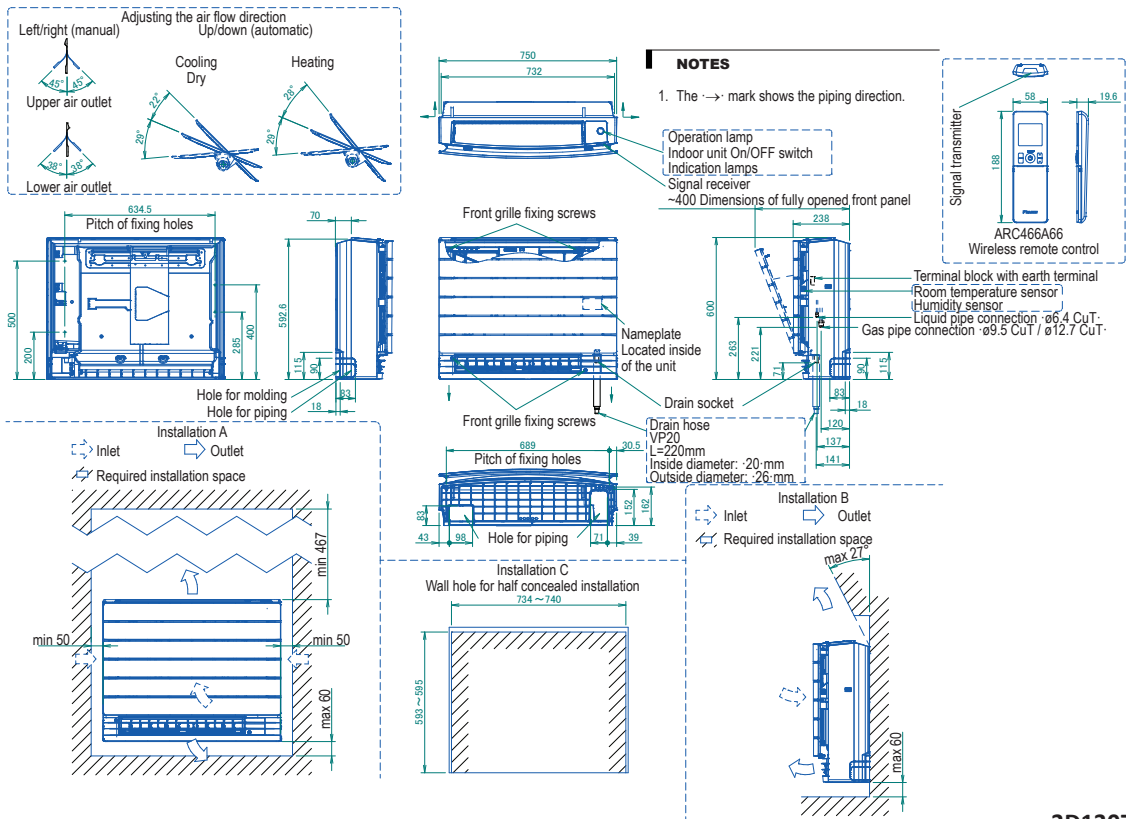
3D120481H



# 4 Dimensional drawings

## 4 - 1 Dimensional Drawings

FVXTM-A

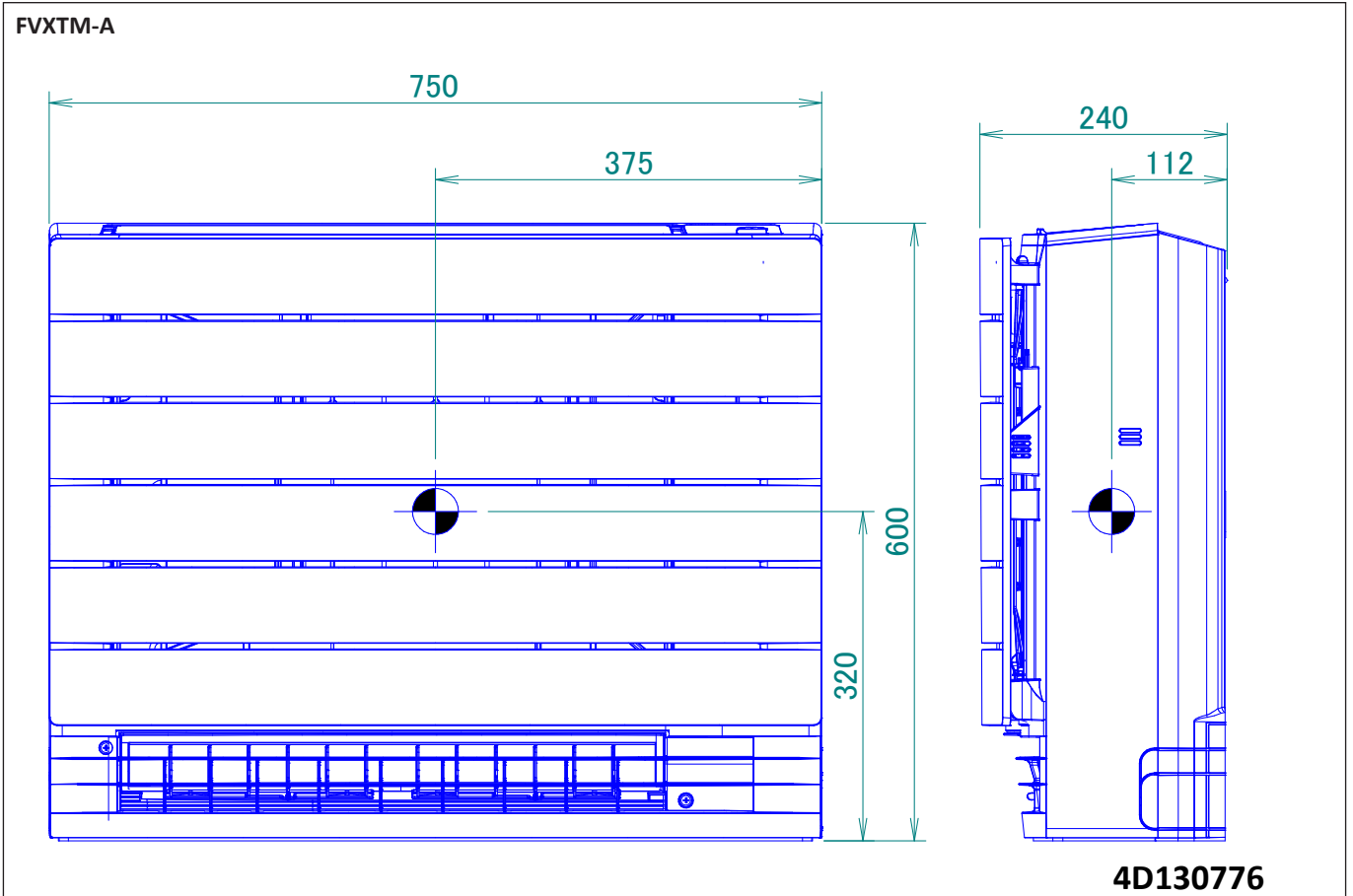


3D130754

# 5 Centre of gravity

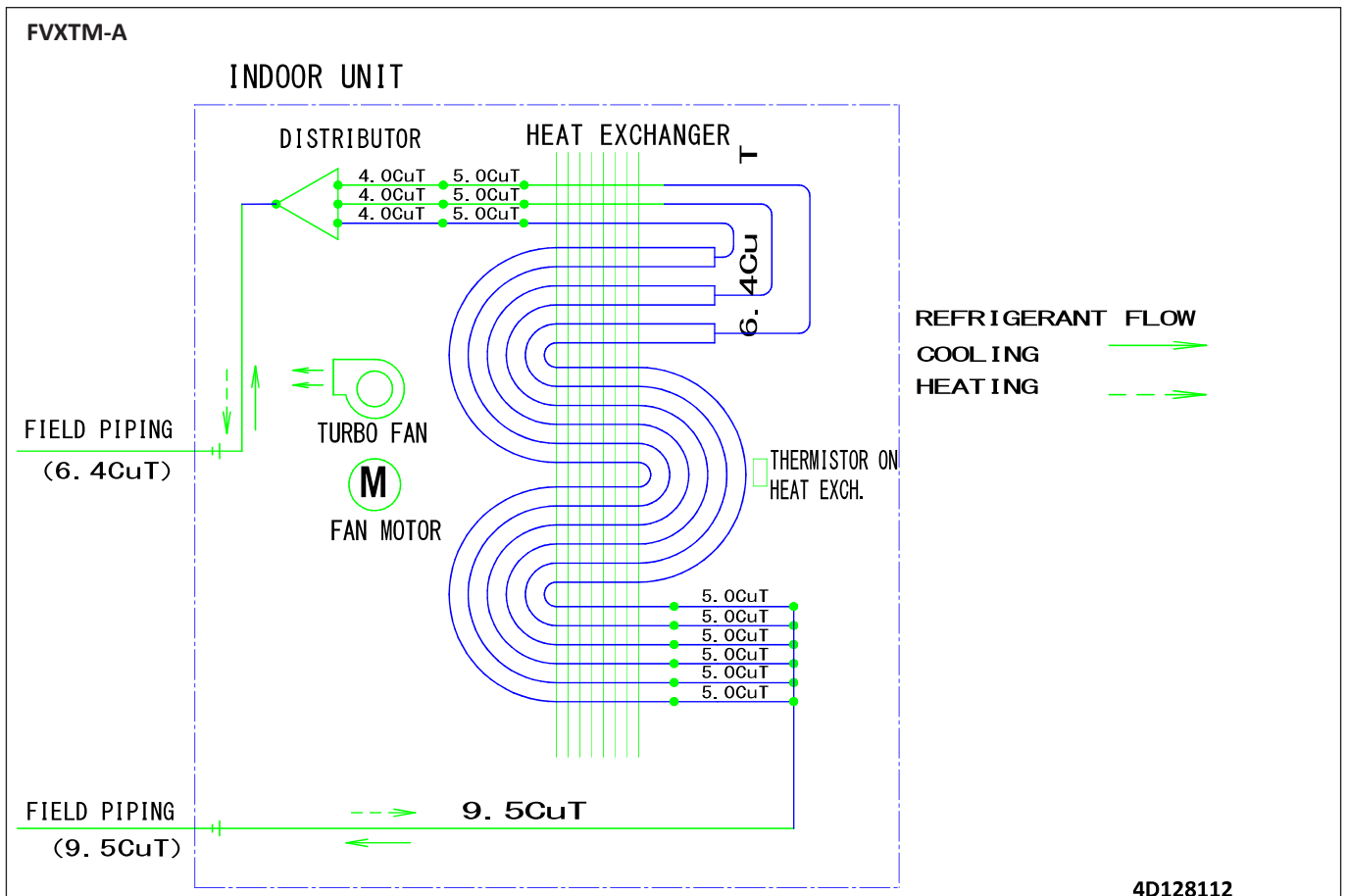
## 5 - 1 Centre of Gravity

5



# 6 Piping diagrams

## 6 - 1 Piping Diagrams



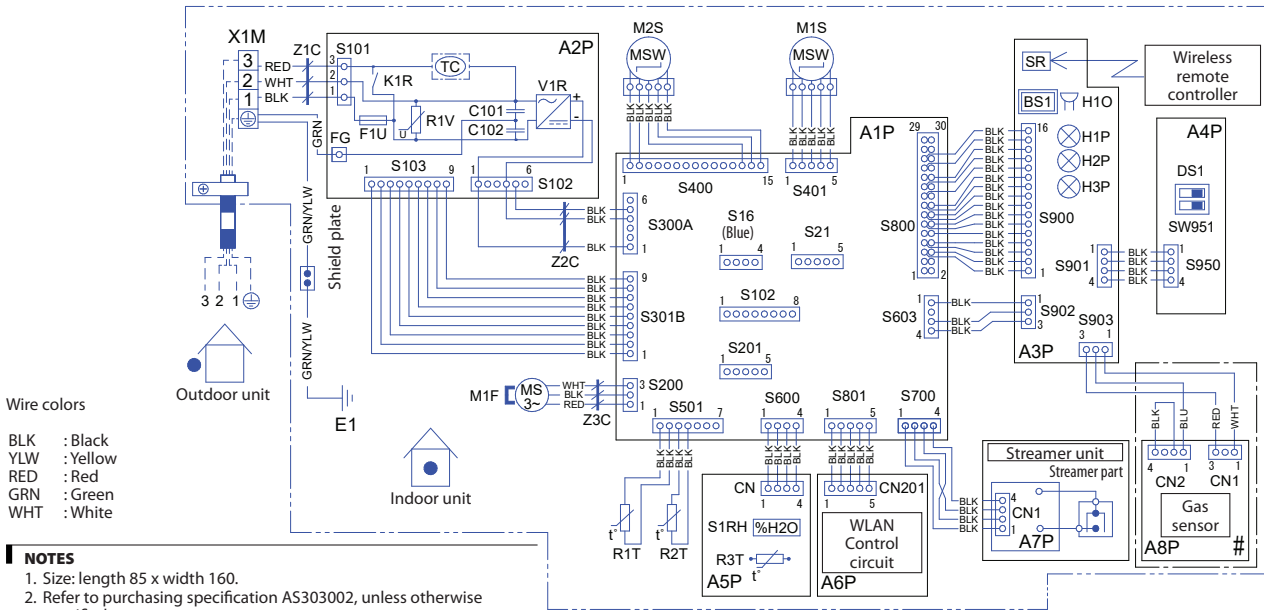
# 7 Wiring diagrams

## 7 - 1 Wiring Diagrams - Three Phase

7

FVXTM-A

Wiring diagram



Wire colors  
 BLK : Black  
 YLW : Yellow  
 RED : Red  
 GRN : Green  
 WHT : White

- NOTES**
1. Size: length 85 x width 160.
  2. Refer to purchasing specification AS303002, unless otherwise specified.

|                     |                       |            |                  |
|---------------------|-----------------------|------------|------------------|
| CN, CN1, CN2, CN201 | Connector             | H10        | Buzzer           |
| X1M                 | Terminal block        | S1RH       | Humidity sensor  |
| F1U                 | Fuse (T, 3.15A, 250V) | Z1~3C      | Ferrite core     |
| M1F                 | Motor (indoor fan)    | E1         | Heat exchanger   |
| M1S                 | Motor (swing flap)    | K1R        | Magnetic relay   |
| M2S                 | Motor (damper)        | V1R        | Rectifier        |
| A1~8P               | Printed circuit       | C101, C102 | Capacitor        |
| R1~3T               | Thermistor            | TC         | Protective earth |
| BS1                 | Button switch         | R1V        | Varistor         |
| H1~3P               | Pilot lamp            | DS1        | Dip switch       |
| SR                  | Signal receiver       |            |                  |

Field wiring :

**CAUTION**  
 When the power turns back on after a power break, the previously selected mode will be resumed.

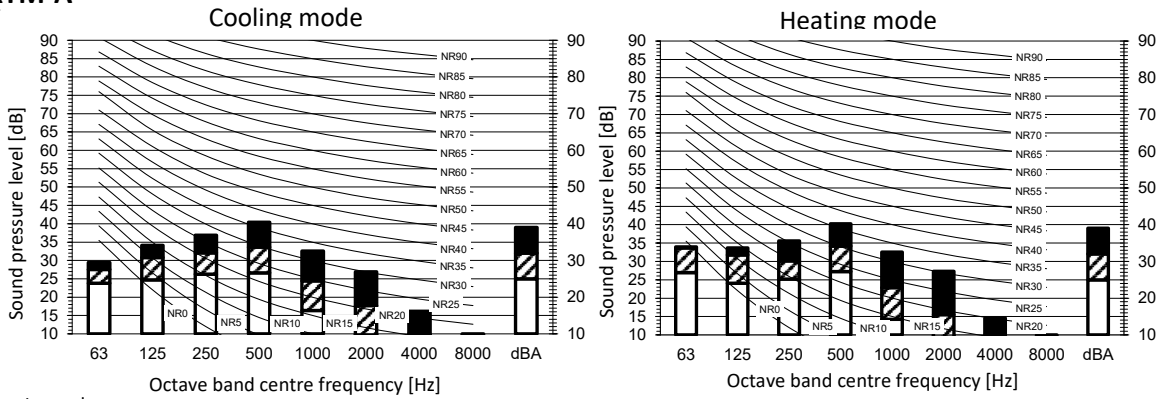
**NOTE**  
 # Applicable for units with refrigerant leakage sensor only

3D129863B

# 8 Sound data

## 8 - 1 Sound Pressure Spectrum

### FVXTM-A

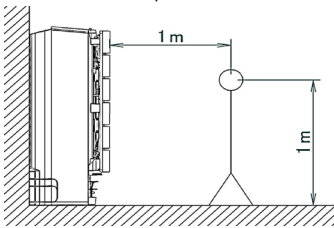


**Legend**

dBA = A-weighted sound pressure level (A scale according to IEC).

- A Scale Fan speed
- B High
- C Medium
- D Low

Location of microphone



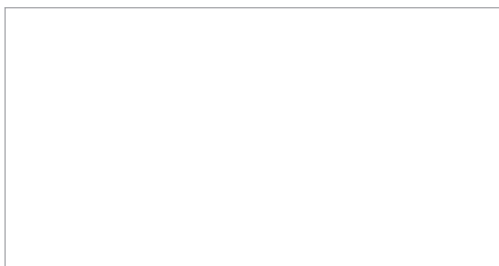
| Cooling  |      |      |      | Heating  |      |      |      |
|----------|------|------|------|----------|------|------|------|
| Total dB |      |      |      | Total dB |      |      |      |
| A        | B    | C    | D    | A        | B    | C    | D    |
| dBA      | 39,0 | 32,0 | 25,0 | dBA      | 39,0 | 32,0 | 25,0 |

**Notes**

1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

**3D130903B**

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