Air Conditioning

Technical Data

Wall mounted unit

FTXG-LS, FTXG-LW
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FTXG-LS, FTXG-LW

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Features

FTXG-LS

- Remarkable blend of iconic design and engineering excellence with an elegant finish in silver and anthracite
- Daikin Emura has been awarded with Reddot design award 2014 by an international jury, thanks to its excellent design
- Designed to perfectly balance technological leadership and the beauty of aerodynamics

- Seasonal efficiency values up to A+++ 
- Online controller (optional): control your indoor from any location with an app, via your local network or internet
- Whisper quiet in operation: the operating of the unit can hardly be heard. The sound pressure level goes down to 19dBA!
1 Features

1 - 2 FTXG-LW

- Remarkable blend of iconic design and engineering excellence with an elegant finish in matt crystal white
- Daikin Emura has been awarded with Reddot design award 2014 by an international jury, thanks to its excellent design
- Designed to perfectly balance technological leadership and the beauty of aerodynamics

- Seasonal efficiency values up to A+++ 
- Online controller (optional): control your indoor from any location with an app, via your local network or internet
- Whisper quiet in operation: the operating of the unit can hardly be heard. The sound pressure level goes down to 19dBA!
## 2. Specifications

### 2.1 Technical Specifications

<table>
<thead>
<tr>
<th>Power input</th>
<th>Cooling Nom. kW</th>
<th>Heating Nom. kW</th>
<th>FTXG20LS</th>
<th>FTXG25LS</th>
<th>FTXG35LS</th>
<th>FTXG50LS</th>
<th>FTXG20LW</th>
<th>FTXG25LW</th>
<th>FTXG35LW</th>
<th>FTXG50LW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor Unit</td>
<td>FTXG-LS, FTXG-LW</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

### Casing

- Colour: Silver White

### Dimensions

- Unit Height/Width/Depth: mm
- Packed unit Height/Width/Depth: mm
  - FTXG20LS: 303 (3)/998/212
  - FTXG25LS: 322/1,101/389
  - FTXG35LS: 347/1,151/389
  - FTXG50LS: 361/1,191/389

### Weight

- Unit kg: 12
- Packed unit kg: 16

### Packing

- Weight kg: 4

### Heat exchanger

- Length mm: 610
- Rows Quantity: 2
- Fin pitch mm: 1.2
- Stages Quantity: 18
- Tube type: Ø6.35 Hi-XB
- Fin Type: Multi slit fin

### Air filter

- Type: Removable / washable / mildew proof

### Fan

- Type: Cross flow fan
- Air flow rate
  - Cooling High m³/min: 8.9
    - cfm: 313
  - Cooling Nom. m³/min: 6.6
    - cfm: 234
  - Cooling Low m³/min: 4.4
    - cfm: 155
  - Heating High m³/min: 10.2
    - cfm: 361
  - Heating Nom. m³/min: 8.4
    - cfm: 298
  - Heating Low m³/min: 6.3
    - cfm: 223
  - Silent operation Cooling High m³/min: 2.6
    - cfm: 91
  - Silent operation Heating High m³/min: 3.8
    - cfm: 133

### Fan motor

- Model: KFD-280-40-BG1
- Speed: 5 + silent, + auto
  - Cooling High/ Medium/ Low/ Silent operation rpm
    - FTXG20LS: 1,440/1,140/840/600
    - FTXG25LS: 1,710/1,300/990/640
    - FTXG35LS: 1,710/1,440/1,160/740
    - FTXG50LS: 1,440/1,140/840/600
    - FTXG20LW: 1,710/1,300/990/640
    - FTXG25LW: 1,710/1,440/1,160/740
    - FTXG35LW: 1,710/1,300/990/640
    - FTXG50LW: 1,710/1,440/1,160/740
  - Heating High/ Medium/ Low/ Silent operation rpm
    - FTXG20LS: 1,620/1,380/1,100/760
    - FTXG25LS: 1,720/1,400/1,180/800
    - FTXG35LS: 1,910/1,540/1,330/920
    - FTXG50LS: 1,940/1,660/1,330/920
    - FTXG20LW: 1,620/1,380/1,100/760
    - FTXG25LW: 1,720/1,400/1,180/800
    - FTXG35LW: 1,910/1,540/1,330/920
    - FTXG50LW: 1,940/1,660/1,330/920

### Output Rated W

- Cooling: 29
- Heating: 25

### Sound power level dB(A)

- Cooling: 54 / 59 / 60 / 54 / 59 / 60
- Heating: 56 / 59 / 60 / 56 / 59 / 60

### Sound pressure level dB(A)

- Cooling HighNom./Low/ Silent operation: 38/32/25/19 
  - 45/34/26/ 20
  - 46/40/35/ 25
- Heating HighNom./Low/ Silent operation: 40/34/28/ 19
  - 47/41/35/ 25

### Control systems

- Infrared remote control ARC466A1
## 2 Specifications

### 2-1 Technical Specifications

<table>
<thead>
<tr>
<th>Refrigerant</th>
<th>Type</th>
<th>FTXG20LS</th>
<th>FTXG25LS</th>
<th>FTXG35LS</th>
<th>FTXG50LS</th>
<th>FTXG20LW</th>
<th>FTXG25LW</th>
<th>FTXG35LW</th>
<th>FTXG50LW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piping connections</td>
<td>Liquid OD</td>
<td>6.35</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Gas OD</td>
<td>9.5</td>
<td>12.7</td>
<td>9.5</td>
<td>12.7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Drain</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heat insulation</td>
<td>Both liquid and gas pipes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature control</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air direction control</td>
<td></td>
<td>Microcomputer control</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Standard Accessories:
- Installation manual; Quantity: 1;
- Operation manual; Quantity: 1;
- Infrared remote control; Quantity: 1;
- Batteries; Quantity: 2;
- Remote control holder; Quantity: 1;
- Mounting plate; Quantity: 1;
- Indoor unit fixing screws; Quantity: 2;
- Titanium apatite photocatalytic air purification filter; Quantity: 2;
- Screw cover; Quantity: 2;

### 2-2 Electrical Specifications

<table>
<thead>
<tr>
<th>Power supply</th>
<th>Name</th>
<th>FTXG20LS</th>
<th>FTXG25LS</th>
<th>FTXG35LS</th>
<th>FTXG50LS</th>
<th>FTXG20LW</th>
<th>FTXG25LW</th>
<th>FTXG35LW</th>
<th>FTXG50LW</th>
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</thead>
<tbody>
<tr>
<td>Phase</td>
<td>1~</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td>Hz</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>V</td>
<td>220-240</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current</td>
<td>Nominal running current (RLA) - 50Hz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cooling</td>
<td>A</td>
<td>0.12 (1) / 0.12 (2) / 0.12 (3)</td>
<td>0.16 (1) / 0.16 (2) / 0.16 (3)</td>
<td>0.12 (1) / 0.12 (2) / 0.12 (3)</td>
<td>0.16 (1) / 0.16 (2) / 0.16 (3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heating</td>
<td>A</td>
<td>0.15 (1) / 0.15 (2) / 0.15 (3)</td>
<td>0.16 (1) / 0.16 (2) / 0.16 (3)</td>
<td>0.21 (1) / 0.21 (2) / 0.21 (3)</td>
<td>0.15 (1) / 0.15 (2) / 0.15 (3)</td>
<td>0.16 (1) / 0.16 (2) / 0.16 (3)</td>
<td>0.21 (1) / 0.21 (2) / 0.21 (3)</td>
<td></td>
</tr>
<tr>
<td>Wiring connections - 50Hz</td>
<td>For power supply</td>
<td>Remark</td>
<td>3 for power supply, 4 for interunit wiring (Earth wire included)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes

1. 220V
2. 230V
3. 240V

SL: The silent fan level of the air flow rate setting

When connected with multi-system outdoor unit, refer to the specifications of the multi outdoor unit to be connected.
## 3 Options

### 3 - 1 Options

#### FTXG-LW/LS

<table>
<thead>
<tr>
<th>Indoor Units - Control systems</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Main remote control</td>
<td>RHC5D1</td>
</tr>
<tr>
<td>Call to widen area control</td>
<td>RWN50A1</td>
</tr>
<tr>
<td>Wiring adapter (for contact) / remote panel contact</td>
<td>RWN15A1</td>
</tr>
<tr>
<td>Conditioner control</td>
<td>Up to 5 rooms</td>
</tr>
<tr>
<td>Preliminary position for remote control</td>
<td>0TV7A2</td>
</tr>
<tr>
<td>Remote control U21</td>
<td>U21RA2</td>
</tr>
<tr>
<td>Module power supply</td>
<td>RE-4A</td>
</tr>
<tr>
<td>User program</td>
<td>U22D2</td>
</tr>
</tbody>
</table>

1. Wiring adapter supplied by Daikin. Time clock and other devices to be purchased locally.
2. Wiring adapter is also required for each indoor unit.
3. Card for wired remote control BRCW50/425 or BRCW90/940 required.
4 Dimensional drawings

4 - 1 Dimensional Drawings

FTXG20-35LW/S

Note:
1. The mark ▶ shows plugging direction.
2. This case, replace the grill option.
3. In this case, cut the grill with paper system.

Operating state

Terminal block with earth terminal (inside)

Required space for installation

Air flow

50 Min

170 Min

310 Min

350 Min

650 Min

850 Min

1300 Min

1900 Min

2000 Min

Back view

Capacity (kW) @ 20°C

Liquid pipe: φ 12.7 (Outside diameter of pipe according to the unit inside capacity)

Gas pipe: φ 6.35 (Outside diameter of pipe according to the unit inside capacity)

Standard locations of wall holes

30085835

FTXG50LW/S

Note:
1. The mark ▶ shows plugging direction.
2. In this case, replace the grill option.
3. In this case, cut the grill with paper system.

Operating state

Terminal block with earth terminal (inside)

Required space for installation

Air flow

50 Min

170 Min

310 Min

350 Min

650 Min

850 Min

1300 Min

1900 Min

2000 Min

Back view

Capacity (kW) @ 20°C

Liquid pipe: φ 12.7 (Outside diameter of pipe according to the unit inside capacity)

Gas pipe: φ 6.35 (Outside diameter of pipe according to the unit inside capacity)

Standard locations of wall holes

30085836
5 Centre of gravity
5 - 1 Centre of Gravity

![Diagram of Centre of Gravity]
6 Piping diagrams
6 - 1 Piping Diagrams

FTXG20-35 LW/S

Field piping
6.4CuT

Heat exchanger

Crossflow fan

Fan motor

Field piping
9.5CuT

Refrigerant flow

Cooling

Heating
6 Piping diagrams
6 - 1 Piping Diagrams

FTXG50LW/S

Field piping
6.4 GcT

Field piping
12.7 GcT

Heat exchanger

Thermistor on heat exchanger

Fan motor

Cross flow fan

Refrigerant flow
- Cooling
- Heating

6.4 GcT

4D085834A
7 Wiring diagrams
7 - 1 Wiring Diagrams - Single Phase

Caution
When the main power is turned off and then back on again, operation will resume automatically.

Notes:
1. See length 02 X, width 010.
2. Refer to purchasing specification AS003002, unless otherwise specified.

3D085644-1C
3D085644E
Sound data

8 - 1 Sound Pressure Spectrum

FTXG20LW/S

Cooling mode

Heating mode

Legend

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

- Background noise already taken into account.

- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard

Cooling Total dB

Heating Total dB

- Background noise already taken into account.

- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard

Notes

Operating noise varies depending on operation and ambient conditions.

3D08689

FTXG25LW/S

Cooling mode

Heating mode

Legend

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

- Background noise already taken into account.

- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard

Cooling Total dB

Heating Total dB

- Background noise already taken into account.

- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard

Notes

Operating noise varies depending on operation and ambient conditions.

3D086g42
8 Sound data
8 - 1 Sound Pressure Spectrum

**FTXG35LW/S**

**Cooling**

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>dBA</td>
<td>45</td>
<td>26</td>
<td></td>
</tr>
</tbody>
</table>

- Background noise already taken into account.
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard.

**Heating**

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>dBA</td>
<td>45</td>
<td>35</td>
<td></td>
</tr>
</tbody>
</table>

- Background noise already taken into account.
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard.

**Legend**

- Octave band centre frequency [Hz]
- dBA = A-weighted sound pressure level (A scale according to IEC).
- A Scale
  - High-top
  - Medium-top
  - Low-top
- Location of microphone

**FTXG50LW/S**

**Cooling**

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>dBA</td>
<td>46</td>
<td>35</td>
<td></td>
</tr>
</tbody>
</table>

- Background noise already taken into account.
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard.

**Heating**

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>dBA</td>
<td>47</td>
<td>35</td>
<td></td>
</tr>
</tbody>
</table>

- Background noise already taken into account.
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard.

**Legend**

- Octave band centre frequency [Hz]
- dBA = A-weighted sound pressure level (A scale according to IEC).
- A Scale
  - High-top
  - Medium-top
  - Low-top
- Location of microphone

Notes:
- Operating noise varies depending on operation and ambient conditions.
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