

# Room Air Conditioner

Luve Black LB50X <sup>[R16]</sup>



## Key features of the device

|                                      |                                      |  |  |   |                                 |  |                                  |
|--------------------------------------|--------------------------------------|--|--|---|---------------------------------|--|----------------------------------|
|                                      |                                      |  |  |   |                                 |  |                                  |
| SKY <sup>®</sup> Digital DC Inverter | iAIR Automatic purification          | iClean Automatic purification <sup>(1)</sup>   | iAIR 3-in-1 filter (Ca + Si.Ion + vit. C) <sup>(*)</sup> | iAIR 3-in-1 filter (Phot. + Act.C + Nano) <sup>(**)</sup> | iAIR HD pre-filter              | eMOTO Super silent mode                        | Automatic 4D louvres             |
|                                      |                                      |  |  |   |                                 |  |                                  |
| DuoFlow double louvre                | eMOTO Windless mode                  | eMOTO Turbo mode                               | eMOTO Airflow control system                             | Louvre setting memory                                     | Eco SMART mode                  | eMOTO Wide-angle airflow                       | Aroma discs                      |
|                                      |                                      |  |  |   |                                 |  |                                  |
| SMART Wi-Fi function                 | Built-in SMART Wired controller port | Smart panel display ON/OFF                     | SMART Follow mode  | Wireless remote controller                                | Wired controller <sup>(2)</sup> | SMART heating 8°C function                     | Auto restart memory              |
|                                      |                                      |  |  |   |                                 |  |                                  |
| Anti-corrosive gold-plated fins      | Drip tray heater                     | Compressor winding heating <sup>(1)</sup>      | Silence mode <sup>(1)</sup>                              | Timer   | Cooling at low ext. temp. -15°C | Heating at low ext. temp. -25°C <sup>(1)</sup> | Double-sided condensate drainage |
|                                      |                                      |  |  |   |                                 |  |                                  |
| Self-diagnosis function              | Sleep mode                           | Energy consumption optimization <sup>(1)</sup> | Built-in ON/OFF switch <sup>(3)</sup>                    | Built-in Modbus BMS port                                  |                                 |  |                                  |

1. Function not available in the Multisplit system. 2. Function available as an option. 3. Normally Open.

\* iAIR 3-in-1 filter: Catechin + Silver Ion + Vitamin C

\*\* iAIR 3-in-1 Filter: Photocatalytic + Activated Carbon + Cold Nano

# Technical Specification

| Model  |                                |                        |                                     | Luve Black 5.3 kW   |
|--|--------------------------------|------------------------|-------------------------------------|---------------------|
| Capacity   | Cooling                        | Nom. (Min. - Max.)     | W                                   | 5,260 (1,250-6,000) |
| Rated input  |                                | Nom. (Min. - Max.)     | W                                   | 1,421 (330-2,360)   |
| Operating current                                    |                                | Nom. (Min. - Max.)     | A                                   | 6.2 (1.4-10.3)      |
| Capacity   | Heating                        | Nom. (Min. - Max.)     | W                                   | 5,600 (1,250-6,800) |
| Rated input  |                                | Nom. (Min. - Max.)     | W                                   | 1,407 (340-2,750)   |
| Operating current                                    |                                | Nom. (Min. - Max.)     | A                                   | 6.1 (1.5-12.0)      |
| Reversible heat pump type                            |                                |                        |                                     | air-to-air          |
| Design load in cooling mode                          |                                |                        | kW                                  | 5.2                 |
| SEER   |                                |                        | W/W                                 | 8.5                 |
| Energy efficiency class for cooling                  |                                |                        |                                     | A+++                |
| Annual electric energy consumption - cooling         |                                |                        | kWh/a                               | 215                 |
| Design load in heating mode (T <sub>biv</sub> -7°C)  |                                |                        | kW                                  | 4.2                 |
| SCOP   |                                |                        | W/W                                 | 4.6                 |
| Energy efficiency class - heating                    |                                |                        |                                     | A++                 |
| Annual electric energy consumption - heating         |                                |                        | kWh/a                               | 1,279               |
| Dehumidification                                     |                                |                        | l/h                                 | 1.8                 |
| Maximum energy consumption                           |                                |                        | W                                   | 2,750               |
| Maximum operating current                            |                                |                        | A                                   | 12.0                |
| Indoor unit  |                                |                        |                                     | LB50Xi R16          |
| EAN product code                                     |                                |                        |                                     | 5905567608711       |
| Fan speed  | T / H / M / ML / L / S         | rpm                    | 1,160 / 940 / 880 / 810 / 750 / 680 |                     |
| Air flow   | T / H / M / ML / L / S         | m <sup>3</sup> /h      | 860 / 740 / 680 / 630 / 570 / 510   |                     |
| Sound pressure level                                 | T / H / M / ML / L / S         | dB(A)                  | 47 / 38 / 33 / 30 / 27 / 23         |                     |
| Sound power level                                    |                                | dB(A)                  | 57                                  |                     |
| Rated input  |                                | W                      | 52                                  |                     |
| Operating current                                    |                                | A                      | 0.2                                 |                     |
| Net dimensions                                       | W × D × H                      | mm                     | 909 × 209 × 305                     |                     |
| Gross dimensions                                     | W × D × H                      | mm                     | 981 × 275 × 375                     |                     |
| Net Weight / Gross Weight                            |                                | kg                     | 10.6 / 13.4                         |                     |
| Condensate drain                                     |                                | mm                     | 16                                  |                     |
| Outdoor unit   |                                |                        |                                     | LO50Xo R16          |
| EAN product code                                     |                                |                        |                                     | 5905567608728       |
| Fan speed  | T / H / M / L / S              | rpm                    | 850 / 830 / 710 / 610 / 530         |                     |
| Maximum air flow                                     |                                | m <sup>3</sup> /h      | 3,000                               |                     |
| Sound pressure level                                 |                                | dB(A)                  | 55                                  |                     |
| Sound power level                                    |                                | dB(A)                  | 65                                  |                     |
| Net dimensions                                       | W × D × H                      | mm                     | 927 × 380 × 699                     |                     |
| Gross dimensions                                     | W × D × H                      | mm                     | 950 × 420 × 777                     |                     |
| Bracket spacing                                      | W × D                          | (mm)                   | 586 × 348                           |                     |
| Net Weight / Gross Weight                            |                                | kg                     | 38 / 41                             |                     |
| Refrigerant  | Type                           |                        | R32                                 |                     |
|  | Global Warming Potential (GWP) |                        | 675                                 |                     |
|  | Charge (up to 5 m)             | kg                     | 0.87                                |                     |
|  |                                | TCO <sub>2</sub> eq    | 0.588                               |                     |
| Charge (more than 5 m)                               | g/m                            | 25                     |                                     |                     |
| Pipe connections                                     | Liquid / Gas                   | mm (inches)            | Φ6.35 / Φ12.7 (1/4" / 1/2")         |                     |
| Maximum installation length                          |                                | m                      | 25                                  |                     |
| Maximum height difference                            |                                | m                      | 10                                  |                     |
| Compressor type                                      |                                |                        |                                     | Rotary DC           |
| Type of outdoor unit power supply                    |                                | V-Hz, Ø                | 220-240-50, 1ph                     |                     |
| Protection   |                                | A                      | B16                                 |                     |
| Power cables: outdoor unit                           | L < 20 m                       | qty. × mm <sup>2</sup> | 3 × 1.5                             |                     |
| Control and power cables: outdoor unit - indoor unit |                                | qty. × mm <sup>2</sup> | 4 × 1.5                             |                     |
| Control and power cables: Hiro unit - indoor unit    |                                | qty. × mm <sup>2</sup> | 4 × 1                               |                     |
| Indoor operating range (Cooling / Heating)           |                                | °C                     | 16~32 / 0~31                        |                     |
| Outdoor operating range (Cooling / Heating)          |                                | °C                     | -15~53 / -25~31                     |                     |
| Compatible systems                                   |                                |                        |                                     |                     |
| 1:1 SINGLE   |                                |                        |                                     | •                   |
| 1:2 DUAL   |                                |                        |                                     |                     |
| 1:X MULTI S-Line                                     |                                |                        |                                     |                     |
| 1:X MULTI N-Line                                     |                                |                        |                                     | •                   |
| 1:X MULTI HP-Line                                    |                                |                        |                                     |                     |