

## BOX-SL

650x650

A++

A+



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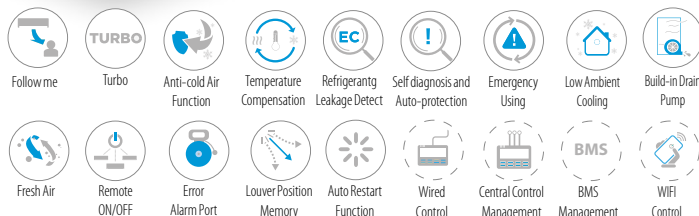
## Light Commercial System with 4-way Compact Cassette indoor unit

**BOX-SL** is the compact Cassette-type indoor unit with 650x650mm panel dimensions for **LIGHTCommercial** system.

Its low height (maximum 26 cm in the larger versions) makes the product ideal for installation on false ceilings.

► The quality of the air supply can be improved through the connection for **primary air**.

► The standard unit is supplied with remote control, **remote on/off** function and configuration for **connection to the BMS**. The wired control device for wall-mounted installation is also available as an accessory.



### technical data

| Set                              |                               |                           | S.IA1+MC1-X | 35M                | 53M                |
|----------------------------------|-------------------------------|---------------------------|-------------|--------------------|--------------------|
| Cooling capacity                 | Standard (Min~Max)            |                           | Btu/h       | 12000 (2100~15000) | 18000 (2700~21000) |
|                                  | Standard (Min~Max)            |                           | kW          | 3,5 (0,6~4,4)      | 5,3 (0,8~6,2)      |
| Heating capacity                 | Standard (Min~Max)            |                           | Btu/h       | 14000 (2100~17500) | 19000 (3000~24000) |
|                                  | Standard (Min~Max)            |                           | kW          | 4,1 (0,6~5,1)      | 5,6 (0,9~7,0)      |
| Standard power input             | Cooling                       |                           | kW          | 0,96               | 1,63               |
|                                  | Heating                       |                           | kW          | 1,00               | 1,50               |
| Seasonal efficiency <sup>1</sup> | Cooling                       | Energy efficiency class   |             | A++                | A++                |
|                                  |                               | Design load (Pdesign)     | kW          | 3,5                | 5,1                |
|                                  |                               | SEER                      |             | 6,1                | 6,3                |
|                                  |                               | Annual energy consumption | kWh/a       | 201                | 283                |
|                                  | Heating<br>Average season     | Energy efficiency class   |             | A+                 | A+                 |
|                                  |                               | Design load (Pdesign)     | kW          | 3,4                | 4,7                |
|                                  |                               | SCOP                      |             | 4,0                | 4,0                |
|                                  |                               | Annual energy consumption | kWh/a       | 1260               | 1645               |
| Heating<br>Warmer season         | Energy efficiency class       |                           | A+++        | A+++               |                    |
|                                  | SCOP                          |                           | 5,1         | 5,1                |                    |
| Standard efficiency <sup>2</sup> | EER                           |                           |             | 3,7                | 3,2                |
|                                  | COP                           |                           |             | 4,1                | 3,7                |
| Indoor unit                      |                               |                           | IA1-X       | 35M                | 53M                |
| Dimensions                       | Unit                          | H x L x D                 | mm          | 260x570x570        | 260x570x570        |
|                                  | Panel                         | H x L x D                 | mm          | 50x647x647         | 50x647x647         |
| Weight                           | Unit                          |                           | kg          | 16                 | 16,5               |
|                                  | Panel                         |                           | kg          | 2,5                | 2,5                |
| Air filter                       | Type                          |                           |             | R/W                | R/W                |
| Airflow                          | Hi/Mid/Lo                     |                           | m³/min      | 10,8/8,8/7,5       | 11/9,2/8,2         |
| Sound power level                | Hi                            |                           | dB(A)       | 58                 | 57                 |
| Sound pressure level             | Turbo/Hi/Mid/Lo               |                           | dB(A)       | 42/38/34           | 46/42/38           |
| Control systems                  | Infrared remote control       |                           |             | RG66B6             |                    |
| Power supply                     | Voltage/Frequency/Phases      |                           | V/Hz/n°     | 230 / 50 / 1       |                    |
| Outdoor unit                     |                               |                           | MC1-X       | 35M                | 53M                |
| Dimensions                       | Unit                          | H x L x D                 | mm          | 554x800x333        | 554x800x333        |
| Weight                           | Unit                          |                           | kg          | 34,5               | 35,5               |
| Sound power level                | Standard                      |                           | dB(A)       | 61                 | 65                 |
| Sound pressure level             | Standard                      |                           | dB(A)       | 57                 | 56,5               |
| Operating range                  | Cooling                       | Outdoor T. Min~Max        | °CBS        | -15~50             | -15~50             |
|                                  | Heating                       | Outdoor T. Min~Max        | °CBU        | -15~24             | -15~24             |
| Refrigerant                      | Type/Pre-charge               |                           | kg          | R-410A/1,38        | R-410A/1,48        |
|                                  | GWP/Tons CO <sub>2</sub> Eq   |                           |             | 2088/2,88          | 2088/3,09          |
| Refrigerant piping               | External diameter             | Liquid-Gas                | mm          | 6,35-9,52          | 6,35-12,7          |
|                                  |                               | Liquid-Gas                | inch        | 1/4"-3/8"          | 1/4"-1/2"          |
|                                  | Equivalent length             | Max                       | m           | 25                 | 30                 |
|                                  | Length (without adding refr.) | Max                       | m           | 5                  | 5                  |
|                                  | Level difference              | Max                       | m           | 10                 | 20                 |
| Power supply                     | Voltage/Frequency/Phases      |                           | V/Hz/n°     | 230 / 50 / 1       | 230 / 50 / 1       |
| Current - 50Hz                   | Maximum fuse capacity (MFA)   |                           | A           | 16                 | 20                 |

#### Notes

<sup>1</sup> SEER and SCOP data, relative energy ratings and annual energy consumption in conformity to the EN 14825 standard measurement.

R/W = Removable/Washable

### accessories

#### Standard

- **RG66B6** Infrared remote control
- **T-MBQ4-03B4** Panel for Box-SM/Box-SL 650x650, air supply 360°, round hole grill

#### Optionals

- **WF-60A1** Smart port kit to make indoor unit available for Wi-Fi kit connection
- **NWMX** Wi-Fi kit for indoor units (WF-60A1 necessary for connection)
- **Control systems** (learn more in Split Guide to Products)

BOX-SL

950x950

A++

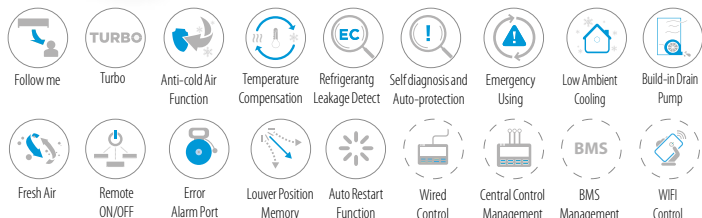
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## Light Commercial System with 4-way Cassette indoor unit

**BOX-SL** is the compact Cassette-type indoor unit with 950x950mm panel dimensions for **LIGHTCommercial** system.

The unit's dimensions make it ideal for being mounted in standard false ceilings.



► The deflectors can be **positioned at different angles and guarantee a 360° air flow.**

► The quality of the delivery air can be improved through the connection for **primary air.**

### technical data

| Set                              |                               | S.IA1+MC1-X               |       | 70M                 | 105M                | 105T                | 140M                | 140T                | 160T                |
|----------------------------------|-------------------------------|---------------------------|-------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Cooling capacity                 | Standard (Min~Max)            | Btu/h                     |       | 24000 (4100~28000)  | 36000 (10000~41000) | 36000 (10000~41000) | 48000 (13600~55000) | 48000 (13600~55000) | 53000 (17000~63000) |
|                                  | Standard (Min~Max)            | kW                        |       | 7.0 (1.2~8.2)       | 10.6 (2.9~12.0)     | 10.6 (2.9~12.0)     | 14.1 (4.0~16.1)     | 14.1 (4.0~16.1)     | 15.5 (5.0~18.5)     |
| Heating capacity                 | Standard (Min~Max)            | Btu/h                     |       | 26000 (4100~29500)  | 38000 (9000~45000)  | 38000 (9000~45000)  | 55000 (14300~60000) | 55000 (14300~60000) | 62000 (18000~70000) |
|                                  | Standard (Min~Max)            | kW                        |       | 7.6 (1.2~8.7)       | 11.1 (2.6~13.2)     | 11.1 (2.6~13.2)     | 16.1 (4.2~17.6)     | 16.1 (4.2~17.6)     | 18.2 (8.3~20.5)     |
| Standard power input             | Cooling                       | kW                        |       | 2.17                | 4.06                | 4.06                | 5.74                | 5.39                | 6.40                |
|                                  | Heating                       | kW                        |       | 2.05                | 3.09                | 3.09                | 5.34                | 5.34                | 5.74                |
| Seasonal efficiency              | Cooling                       | Energy efficiency class   |       | A++                 | A++                 | A++                 | A+                  | A+                  | A+                  |
|                                  |                               | Design load (Pdesign)     |       | kW                  | 7.0                 | 10.5                | 10.5                | 14.0                | 15.2                |
|                                  |                               | SEER                      |       |                     | 6.1                 | 6.1                 | 6.1                 | 5.6                 | 5.6                 |
|                                  |                               | Annual energy consumption |       | kWh/a               | 402                 | 602                 | 602                 | 875                 | 950                 |
|                                  | Heating<br>Average season     | Energy efficiency class   |       | A+                  | A+                  | A+                  | A+                  | A+                  | A+                  |
|                                  |                               | Design load (Pdesign)     |       | kW                  | 5.2                 | 9.8                 | 10.1                | 11.5                | 11.5                |
|                                  |                               | SCOP                      |       |                     | 4.0                 | 4.0                 | 4.0                 | 4.0                 | 4.0                 |
|                                  |                               | Annual energy consumption |       | kWh/a               | 1820                | 3430                | 3535                | 4025                | 4025                |
|                                  | Heating<br>Warmer season      | Energy efficiency class   |       | A+++                | A+++                | A+++                | A+++                | A+++                | A+++                |
|                                  |                               | SCOP                      |       |                     | 5.1                 | 5.1                 | 5.1                 | 5.1                 | 5.1                 |
| Standard efficiency <sup>2</sup> | EER                           |                           |       |                     | 3.2                 | 2.6                 | 2.6                 | 2.6                 | 2.4                 |
|                                  | COP                           |                           |       |                     | 3.7                 | 3.6                 | 3.6                 | 3.0                 | 3.2                 |
| Indoor unit                      |                               | IA1-X                     |       | 70M                 | 105M                | 105M                | 140M                | 140M                | 160M                |
| Dimensions                       | Unit                          | H x L x D                 |       | mm                  | 245x840x840         | 245x840x840         | 245x840x840         | 287x840x840         | 287x840x840         |
|                                  | Panel                         | H x L x D                 |       | mm                  | 55x950x950          | 55x950x950          | 55x950x950          | 55x950x950          | 55x950x950          |
| Weight                           | Unit                          |                           |       | kg                  | 23                  | 27.5                | 27.5                | 29                  | 29.7                |
|                                  | Panel                         |                           |       | kg                  | 5                   | 5                   | 5                   | 5                   | 5                   |
| Air filter                       | Type                          |                           |       |                     | R/W                 | R/W                 | R/W                 | R/W                 | R/W                 |
| Airflow                          |                               | Hi/Mid/Lo                 |       | m <sup>3</sup> /min | 23/20/17.2          | 29.6/27/24          | 29.6/27/24          | 28.6/26.1/23        | 32.8/29/25.6        |
| Sound power level                |                               | Hi                        |       | dB(A)               | 61                  | 61                  | 62                  | 64                  | 68                  |
| Sound pressure level             |                               | Turbo/Hi/Mid/Lo           |       | dB(A)               | 47/43/40            | 52/49/46            | 52/49/46            | 52/50/49            | 53/50.5/48          |
| Control systems                  | Infrared remote control       |                           |       |                     | RG66B6              |                     |                     |                     |                     |
| Power supply                     | Voltage/Frequency/Phases      |                           |       | V/Hz/n°             | 230 / 50 / 1        |                     |                     |                     |                     |
| Outdoor unit                     |                               | MC1-X                     |       | 70M                 | 105M                | 105T                | 140M                | 140T                | 160T                |
| Dimensions                       | Unit                          | H x L x D                 |       | mm                  | 702x845x363         | 810x1090x500        | 810x1090x500        | 1333x952x410        | 1333x952x410        |
| Weight                           | Unit                          |                           |       | kg                  | 49                  | 67.2                | 78.9                | 95.1                | 112.8               |
| Sound power level                |                               | Standard                  |       | dB(A)               | 65                  | 69                  | 69                  | 73                  | 75                  |
| Sound pressure level             |                               | Standard                  |       | dB(A)               | 60.5                | 61                  | 62                  | 65                  | 62.5                |
| Operating range                  | Cooling                       | Outdoor T. Min~Max        |       | °CBS                | -15~50              | -15~50              | -15~50              | -15~50              | -15~50              |
|                                  | Heating                       | Outdoor T. Min~Max        |       | °CBU                | -15~24              | -15~24              | -15~24              | -15~24              | -15~24              |
| Refrigerant                      | Type/Pre-charge               |                           |       | kg                  | R-410A/1.95         | R-410A/3.20         | R-410A/3.20         | R-410A/4.00         | R-410A/4.30         |
|                                  | GWP/Tons CO <sub>2</sub> Eq.  |                           |       |                     | 2088/4.07           | 2088/6.68           | 2088/6.68           | 2088/8.35           | 2088/8.98           |
| Refrigerant piping               | External diameter             | Liquid-Gas                | mm    | 9.52-15.9           | 9.52-15.9           | 9.52-15.9           | 9.52-15.9           | 9.52-15.9           | 9.52-15.9           |
|                                  |                               | Liquid-Gas                | inch. | 3/8"-5/8"           | 3/8"-5/8"           | 3/8"-5/8"           | 3/8"-5/8"           | 3/8"-5/8"           | 3/8"-5/8"           |
|                                  | Equivalent length             | Max                       | m     | 50                  | 65                  | 65                  | 65                  | 65                  | 65                  |
|                                  | Length (without adding refr.) | Max                       | m     | 5                   | 5                   | 5                   | 5                   | 5                   | 5                   |
|                                  | Level difference              | Max                       | m     | 25                  | 30                  | 30                  | 30                  | 30                  | 30                  |
| Power supply                     | Voltage/Frequency/Phases      |                           |       | V/Hz/n°             | 230 / 50 / 1        | 230 / 50 / 1        | 400 / 50 / 3 + N    | 230 / 50 / 1        | 400 / 50 / 3 + N    |
| Current - 50Hz                   | Maximum fuse capacity (MFA)   |                           |       | A                   | 20                  | 30                  | 20                  | 35                  | 25                  |

#### Notes

<sup>1</sup> SEER and SCOP data, relative energy ratings and annual energy consumption in conformity to the EN 14825 standard measurement.

R/W = Removable/Washable

### accessories

#### Standard

- **RG66B6** Infrared remote control
- **T-MBQ4-02C1** Panel for Box-SM/Box-SL 650x650, air supply 360°, round hole grill

#### Opzionali

- **WF-60A1**
- **NWMX**
- **Control systems**

Smart port kit to make indoor unit available for Wi-Fi kit connection  
Wi-Fi kit for indoor units (WF-60A1 necessary for connection)  
(learn more at control System Page)