

# CONSOLE

HORIZONTAL CLOSE CONTROL AIR CONDITIONERS



**console/under****VERSIONS :****DXA (R407C)***Cooling capacity 6,4 ÷ 15,8 kW*

Direct expansion air conditioner in Under and Over versions, for remote air cooled condenser matching.

**DXW (R407C)***Cooling capacity 6,9 ÷ 17,0 kW*

Direct expansion air conditioner in Under and Over versions with built-in water cooled condenser.

**CW***Cooling capacity 5,4 ÷ 20,3 kW*

Chilled water feeding air conditioner in Under and Over versions.

**GENERAL FEATURES**

Designed for under window installations, the **CONSOLE** air conditioners are versatile and quick to install units. In their contained dimensions, they enclose the technology of the big RC Group air conditioners.

The **CONSOLE** range is the best answer to the need of a precise control of the thermohygrometric and of the air purity conditions in the most modern hi-tech offices, shopping centres, museums and in all applications where high energy efficiency and silentness are a must.

**CONSOLE** air conditioners are available in Over and Under versions.

**Up-flow air delivery (Over)**

The air distribution is from the top of the unit directly in to the room.

The air flow in each area is predetermined during the design stage and it is not dependent on the actual state of the load to be dissipated. The system is normally applied in comfort plants and in those plants having a defined low/medium room thermal loads density.

**Down flow air delivery (Under)**

The air distribution is from the bottom by means of the plenum between the building floor and the raised floor.

This solution is usually applied in hi-tech room air conditioning and it is most favourable when load is uniformly distributed in all areas of the room.

## MAIN COMPONENTS

- Housing in epoxy painted aluminium profile frame. Base and panels in galvanized steel sheet externally coated with PVC film.
- Centrifugal fans directly coupled to electric motor.
- Scroll compressor (DXA – DXW)
- 3-way proportional cooling valve with emergency manual control (CW)
- Electrical box in separate compartment
- Main switch
- MP.2000 Graphic microprocessor control

## MAIN OPTIONAL ACCESSORIES

- Serial port
- Remote air cooled condenser (DXA)
- Electric or hot water heating system
- Humidification and dehumidification system
- Hot gas re-heating system (DXA - DXW)
- Plenum on air delivery



< 1,2 m

### Technical compartment separated from the air flow.

Compressor, electric board, humidifier and electronic regulation system housed in a technical compartment separated from the air flow to allow standard maintenance with the unit in operation.

CONSOLE/QUIER

SOLE

## TECHNICAL DATA AND NOMINAL PERFORMANCES

### CONSOLE.DXA over

| MODEL                |                   | 7    | 13   | 17   |
|----------------------|-------------------|------|------|------|
|                      |                   | Z1   | Z1   | Z1   |
| Cooling capacity (1) | kW                | 6,4  | 11,6 | 14,9 |
| Air flow             | m <sup>3</sup> /h | 1300 | 2600 | 3900 |
| Compressors          | n.                | 1    | 1    | 1    |
| Weight               | kg                | 142  | 219  | 289  |
| Sound pressure (4)   | dB(A)             | 54,0 | 57,0 | 58,5 |

### CONSOLE.DXA under

| MODEL                |                   | 7    | 13   | 17   |
|----------------------|-------------------|------|------|------|
|                      |                   | Z1   | Z1   | Z1   |
| Cooling capacity (1) | kW                | 6,7  | 12,2 | 15,8 |
| Air flow             | m <sup>3</sup> /h | 1900 | 3800 | 5700 |
| Compressors          | n.                | 1    | 1    | 1    |
| Weight               | kg                | 142  | 219  | 289  |
| Sound pressure (4)   | dB(A)             | 56,0 | 59,0 | 61,0 |

### CONSOLE.DXW over

| MODEL                |                   | 7    | 13   | 17   |
|----------------------|-------------------|------|------|------|
|                      |                   | Z1   | Z1   | Z1   |
| Cooling capacity (2) | kW                | 6,9  | 12,4 | 16,3 |
| Air flow             | m <sup>3</sup> /h | 1300 | 2600 | 3900 |
| Compressors          | n.                | 1    | 1    | 1    |
| Weight               | kg                | 162  | 239  | 309  |
| Sound pressure (4)   | dB(A)             | 54,0 | 57,0 | 58,5 |

### CONSOLE.DXW under

| MODEL                |                   | 7    | 13   | 17   |
|----------------------|-------------------|------|------|------|
|                      |                   | Z1   | Z1   | Z1   |
| Cooling capacity (2) | kW                | 7,3  | 13,3 | 17,0 |
| Air flow             | m <sup>3</sup> /h | 1900 | 3800 | 5700 |
| Compressors          | n.                | 1    | 1    | 1    |
| Weight               | kg                | 162  | 239  | 309  |
| Sound pressure (4)   | dB(A)             | 56,0 | 59,0 | 61,0 |

### CONSOLE.CW over

| MODEL              |                   | 7                    | 14   | 21   |
|--------------------|-------------------|----------------------|------|------|
|                    |                   | Cooling capacity (3) | kW   | 5,4  |
| Air flow           | m <sup>3</sup> /h | 1300                 | 2600 | 3900 |
| Weight             | kg                | 122                  | 194  | 259  |
| Sound pressure (4) | dB(A)             | 52,0                 | 54,5 | 56,0 |

### CONSOLE.CW under

| MODEL              |                   | 7                    | 14   | 21   |
|--------------------|-------------------|----------------------|------|------|
|                    |                   | Cooling capacity (3) | kW   | 6,6  |
| Air flow           | m <sup>3</sup> /h | 1900                 | 3800 | 5700 |
| Weight             | kg                | 122                  | 194  | 259  |
| Sound pressure (4) | dB(A)             | 54,0                 | 57,0 | 59,0 |

(1) Referred to entering air at 24°C with 50% RH and external air 35°C.

(2) Referred to entering air at 24°C with 50%RH and water to the condenser 30/36°C.

(3) Referred to entering air at 24°C with 50%RH and chilled water temperature 7/12,5°C

(4) Sound pressure 1m far in free field according to ISO3744 norm.

POWER SUPPLY: 400.3.50+N

## DIMENSIONS (mm)

| Size      |           | a    | b   | c    |       |
|-----------|-----------|------|-----|------|-------|
|           |           |      |     | Over | Under |
| <b>DX</b> | <b>CW</b> |      |     |      |       |
| <b>7</b>  | <b>7</b>  | 1115 | 465 | 1115 | 1040  |
| <b>13</b> | <b>14</b> | 1515 | 465 | 1115 | 1040  |
| <b>17</b> | <b>21</b> | 1915 | 465 | 1115 | 1040  |

