



DC Inverter  
Reversible

A<sup>++</sup>

**HYBRID**  
HOUSE by Airwell

**Airwell**



# DDMX

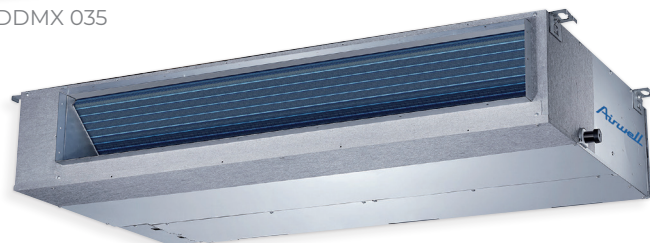
## Medium-pressure ducted



DDMX 035



RCW11 included



DDMX 050-175

### + PRODUCT

- RCW11 remote control included
- Discreet
- Compact
- Performance
- Wired remote control supplied
- Compatible with YDZC and ZDAA multisplits
- Wellzone compatible

### FEATURES

#### TECHNOLOGY



FLEXY MATCH



ELECTRONIC EXPANSION VALVE



GOLDEN FIN TREATMENT

#### AIR QUALITY



ANTIBACTERIAL FILTER

#### USER FUNCTIONS



24 H PROGRAMMABLE TIMER



I FEEL



NIGHT MODE



RESTART (MEMORY)

### CERTIFICATION

- AIRWELL participates in the ECP programme for AC1. Check ongoing validity of certificate:

[www.eurovent-certification.com](http://www.eurovent-certification.com)



- Models marked \* are not Eurovent certified

### + «SUSTAINABLE DEVELOPMENT»

- > Energy label A<sup>++</sup> in cooling mode and A<sup>+</sup> in heating mode, guaranteeing energy savings.

### + «USER»

- > Invisible solution that can adapt to all types of interiors.
- > Wide range adapted to your needs.
- > Quiet thanks to its installation in a false ceiling.

### + «INSTALLER»

- > Compact design, ideal for tight spaces.
- > Static pressure (160 Pa) suitable for long duct lengths.
- > Unit with pre-drilled holes for fresh air supply to the room.
- > Maximum piping length up to 75m adapted to complex and remote installation.

### + «TECHNOLOGY»

- > On/off contact included associated with a "room card" or other solution (not supplied) for better control and for energy savings.
- > Alarm contact (synthesis fault) included.
- > Room sensor built into the remote control for better comfort ("I Feel" mode).
- > Condensate pump included for automatic discharge.
- > Golden Fin treatment on the heat exchangers (external and internal) for protection against corrosion and durability over time.
- > Wide operating range of -15° to 50°C in cooling mode and -15° to 24°C in heating mode.



### OPTIONS

| ACCESSORY                 | PART NUMBER | PICTURE | FUNCTION                                                                 |
|---------------------------|-------------|---------|--------------------------------------------------------------------------|
| Wireless controller RC18  | 7ACEL1898   |         | • Fan speed mode, On/Off timer, "I Feel" function, technician test mode. |
| LCAC Wi-Fi accessory      | 7ACEL1883   |         | • Accessory for remote control via Wi-Fi.                                |
| Insulated air duct plenum | 7ACVF0136   |         | • 3 ducts DN160. For DDMX 50.                                            |
|                           | 7ACVF0137   |         | • 3 ducts DN160. For DDMX 70.                                            |
|                           | 7ACVF0138   |         | • 3 ducts DN160. For DDMX 100.                                           |
|                           | 7ACVF0139   |         | • 3 ducts DN160. For DDMX 140-175.                                       |

**WELLZONE:**  
*ideal temperature  
in each room*

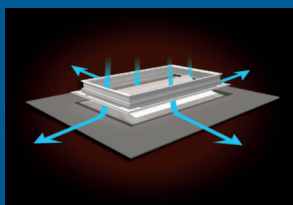
This solution works with  
the ducted DDMX.

- ▶ Air/air heat pump: **control up to 6 zones** in heating and cooling mode.
- ▶ The air louvers change their position (from 0 to 100%) in accordance with the thermostat (temperature set point) of each room, which **maintains the desired comfort temperature**.
- ▶ Each zone has an **independent remote control** equipped with the "I Feel" system, used to control the ambient temperature and the air louvers.
- ▶ **Invisible** HVAC solution for the whole house.
- ▶ **Cost saving** system (1 single indoor unit).

### OPTION 1: YOUR ALL INCLUSIVE SOLUTION

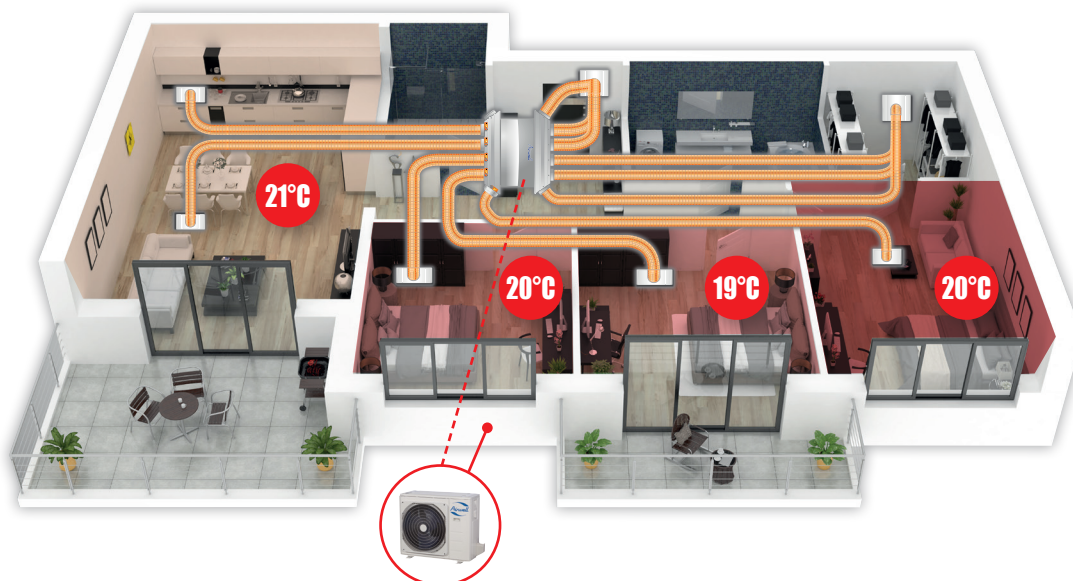
| REFERENCE        | DESCRIPTION                            | COMPATIBILITY | PART NUMBER |
|------------------|----------------------------------------|---------------|-------------|
| 1 WELLZONE 3V    | • Control up to 3 zones                | DDMX 35-50    | 7ACEL1805   |
| 2 WELLZONE 4V    | • Control up to 4 zones                | DDMX 35-50    | 7ACEL1806   |
| 3 WELLZONE 4V-5S | • Control up to 4 zones with 5 outputs | DDMX 70-175   | 7ACEL1807   |
| 4 WELLZONE 5V    | • Control up to 5 zones                | DDMX 70-175   | 7ACEL1808   |
| 5 WELLZONE 5V-6S | • Control up to 5 zones with 6 outputs | DDMX 70-175   | 7ACEL1903   |
| 6 WELLZONE 6V    | • Control up to 6 zones                | DDMX 70-175   | 7ACEL1809   |

|                                                                       |                         | 1<br>WELLZONE<br>3V | 2<br>WELLZONE<br>4V | 3<br>WELLZONE<br>4V-5S | 4<br>WELLZONE<br>5V | 5<br>WELLZONE<br>5V-6S | 6<br>WELLZONE<br>6V |
|-----------------------------------------------------------------------|-------------------------|---------------------|---------------------|------------------------|---------------------|------------------------|---------------------|
| DESCRIPTION                                                           |                         | QUANTITY            | QUANTITY            | QUANTITY               | QUANTITY            | QUANTITY               | QUANTITY            |
| PACK WZ                                                               | Thermostat              | 3                   | 4                   | 4                      | 5                   | 5                      | 6                   |
|                                                                       | Programming timer       | 1                   | 1                   | 1                      | 1                   | 1                      | 1                   |
|                                                                       | Servomotor              | 3                   | 4                   | 5                      | 5                   | 6                      | 6                   |
|                                                                       | Control systems gateway | 1                   | 1                   | 1                      | 1                   | 1                      | 1                   |
|                                                                       | Supply plenum           | 1                   | 1                   | 1                      | 1                   | 1                      | 1                   |
| Return plenum                                                         |                         | 1                   | 1                   | 1                      | 1                   | 1                      | 1                   |
| ABS plenum grid (400x150 mm)                                          |                         | 3                   | 4                   | 5                      | 5                   | 6                      | 6                   |
| Double deflection air supply grid in matt white aluminum (400x150 mm) |                         | 3                   | 4                   | 5                      | 5                   | 6                      | 6                   |
| Steel plenum grid (600x400 mm)                                        |                         | 1                   | 1                   | 2                      | 2                   | 2                      | 2                   |
| White aluminium return filter holder grid (600x400 mm)                |                         | 1                   | 1                   | 2                      | 2                   | 2                      | 2                   |
| Reducer (250/200 mm)                                                  |                         | -                   | -                   | 1                      | 1                   | 2                      | 2                   |
| 10m polyester-insulated duct M1 (Ø200 mm)                             |                         | 4                   | 5                   | 7                      | 7                   | 8                      | 8                   |
| 10m polyester-insulated duct M1 (Ø250 mm)                             |                         | 1                   | 1                   | 2                      | 2                   | 2                      | 2                   |

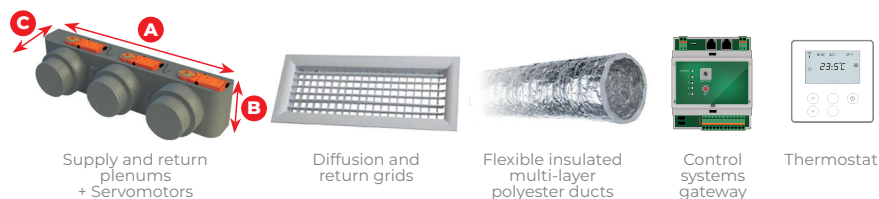


Customize design of air supply grids  
according to interior of house.

## SIMULATION FOR AN INSTALLATION IN 4 ZONES WITH 5 OUTPUTS / WELLZONE 4V-5S



### CONTENTS OF A COMPLETE WELLZONE KIT



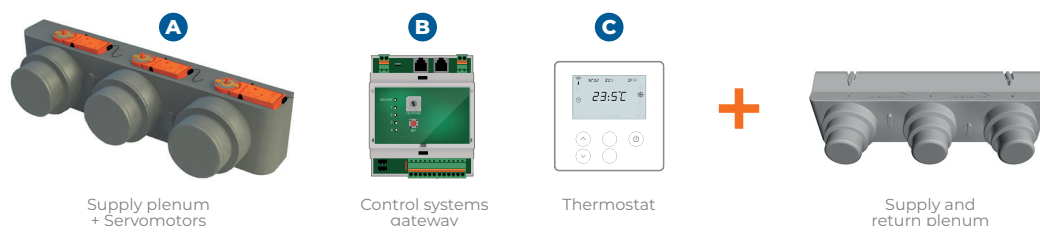
| REFERENCE | DUCT DIAMETER (Ø) | DIMENSIONS<br>A x B x C |
|-----------|-------------------|-------------------------|
| PLENUM 3S | 250 > 200 > 160   | 1100 x 350 x 411        |
| PLENUM 4S | 200 > 160         | 1100 x 350 x 300        |
| PLENUM 6S | 250 & 200 > 160   | 1621 x 350 x 450        |

### OPTION 2: YOUR CONTROL SYSTEMS GATEWAY SOLUTION

- Adjust according to your needs by selecting the Wellzone pack of your choice (see table below).

The most economic solution

### COMPOSITION OF A REGULATION PACK



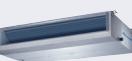
| REFERENCE                                                              | DESCRIPTION          | COMPATIBILITY | PART NUMBER |
|------------------------------------------------------------------------|----------------------|---------------|-------------|
| PACK WZ 3V                                                             | A x1 / B x1 / C x3   | DDMX 35-50    | 7ACEL1810   |
| PACK WZ 4V                                                             | A x1 / B x1 / C x4   | DDMX 35-50    | 7ACEL1811   |
| PACK WZ 4V-5S                                                          | A x1 / B x1 / C x4   | DDMX 70-175   | 7ACEL1812   |
| PACK WZ 5V                                                             | A x1 / B x1 / C x5   | DDMX 70-175   | 7ACEL1813   |
| PACK WZ 5V-6S                                                          | A x1 / B x1 / C x5   | DDMX 70-175   | 7ACEL1904   |
| PACK WZ 6V                                                             | A x1 / B x1 / C x6   | DDMX 70-175   | 7ACEL1814   |
| Don't forget the supply/return plenum in the composition of your Pack: |                      |               |             |
| PLENUM 3S                                                              | Supply/return plenum | DDMX 35-50    | 7ACEL1822   |
| PLENUM 4S                                                              | Supply/return plenum | DDMX 35-50    | 7ACEL1823   |
| PLENUM 6S                                                              | Supply/return plenum | DDMX 70-175   | 7ACEL1824   |

## TECHNICAL DATA

| INDOOR UNIT                               |       |                    | DDMX-035N-09M25  | DDMX-050N-09M25  | DDMX-070N-09M25  | DDMX-100N-09M25    | DDMX-100N-09M25    | DDMX-140N-09M25*   | DDMX-175N-09M25*   |
|-------------------------------------------|-------|--------------------|------------------|------------------|------------------|--------------------|--------------------|--------------------|--------------------|
| Part number                               |       |                    | 7SP033070        | 7SP033071        | 7SP033072        | 7SP033073          | 7SP033073          | 7SP033074          | 7SP033075          |
| Phase                                     |       |                    | Single-phase     | Single-phase     | Single-phase     | Single-phase       | Three-phase        | Three-phase        | Three-phase        |
| COOLING                                   |       |                    |                  |                  |                  |                    |                    |                    |                    |
| Rated power (min./max.)                   | kW    |                    | 3.52 (0.53~3.99) | 5.28 (2.55~5.86) | 7.03 (3.28~8.16) | 10.55 (2.75~11.14) | 10.55 (2.73~11.78) | 14.07 (3.52~15.53) | 15.24 (4.10~17.29) |
| Pdesignc                                  | kW    |                    | 3.50             | 5.40             | 7.10             | 10.50              | 10.60              | 14.00              | 15.30              |
| Rated power input                         | kW    |                    | 1.05             | 1.53             | 2.19             | 3.95               | 4.00               | 4.80               | 5.25               |
| SEER/Energy label                         |       |                    | 6.3/A++          | 6.5/A++          | 6.2/A++          | 6.2/A++            | 6.1/A++            | 6.1/A++            | 6.1/A++            |
| Operating limits                          | °C    | -15°~50°C Dry bulb |                  |                  |                  |                    |                    |                    |                    |
| HEATING                                   |       |                    |                  |                  |                  |                    |                    |                    |                    |
| Rated power (min./max.)                   | kW    |                    | 3.81 (1.00~4.39) | 5.57 (2.20~6.15) | 7.62 (2.81~8.49) | 11.72 (2.78~12.78) | 11.72 (2.78~12.84) | 16.12 (4.10~18.17) | 18.17 (4.40~20.52) |
| Pdesignh (average climate)                | kW    |                    | 2.70             | 4.30             | 5.40             | 8.40               | 8.80               | 8.80               | 12.50              |
| Pdesignh (warmer climate)                 | kW    |                    | 3.40             | 5.20             | 6.00             | 9.80               | 10.00              | 11.50              | 12.80              |
| Rated power input                         | kW    |                    | 1.04             | 1.51             | 1.90             | 3.25               | 3.25               | 4.50               | 5.15               |
| SCOP/Energy label (average climate)       |       |                    | 4.0/A+           | 4.0/A+           | 4.0/A+           | 4.0/A+             | 4.0/A+             | 4.0/A+             | 4.0/A+             |
| SCOP/Energy label (warmer climate)        |       |                    | 5.1/A+++         | 5.1/A+++         | 5.1/A+++         | 5.1/A+++           | 5.1/A+++           | 5/A++              | 5.1/A+++           |
| Operating limits                          | °C    | -15°~24°C Dry bulb |                  |                  |                  |                    |                    |                    |                    |
| Power at -7°C                             | kW    |                    | 2.98             | 4.45             | 6.13             | 9.11               | 9.18               | 12.89              | 13.27              |
| Power at -10°C                            | kW    |                    | 2.60             | 3.74             | 5.40             | 7.60               | 7.63               | 10.69              | 11.92              |
| Power at -15°C                            | kW    |                    | 2.08             | 2.99             | 4.32             | 6.08               | 6.10               | 8.55               | 9.54               |
| INDOOR UNIT                               |       |                    |                  |                  |                  |                    |                    |                    |                    |
| Sound pressure level at 1 m (VL/LS/MS/HS) | dB(A) | 23/29/30.5/34.5    | 26/34/38/41      |                  | 27/37/42/40      | 42/46/48/49.5      | 42/46/48/49.5      | 42/47/49/50        | 47/49/52.5         |
| Sound level                               | dB(A) | 58                 | 58               |                  | 62               | 61                 | 61                 | 66                 | 66                 |
| Airflow (LS/MS/HS)                        | m³/h  | 300/480/600        | 515.2/706/911    |                  | 825.1/1035/1229  | 1500/1800/2100     | 1500/1800/2100     | 1680/2040/2400     | 1820/2210/2600     |
| External static pressure (standard/max.)  | Pa    | 25/ 0-60           | 25/0-100         |                  | 25/0-160         | 37/0-160           | 37/0-160           | 50/0-160           | 50/0-160           |
| Dehumidification                          | l/h   | 1.20               | 1.80             |                  | 2.40             | 3.60               | 3.60               | 4.80               | 5.50               |
| Unit dimensions (WxHxD)                   | mm    | 700x200x506        | 880x210x674      |                  | 1100x249x774     | 1360x249x774       | 1360x249x774       | 1200x300x874       | 1200x300x874       |
| Package dimensions (WxHxD)                | mm    | 860x285x540        | 1070x280x725     |                  | 1305x315x805     | 1570x300x805       | 1570x330x805       | 1405x365x915       | 1405x365x915       |
| Net weight/Gross weight                   | kg    | 17.8/25.2          | 24.4/30.4        |                  | 32.3/39.7        | 40.5/48.9          | 40.5/48.9          | 47.6/56.5          | 47.4/56.8          |

| OUTDOOR UNIT                    |        |                  | YDAX-035H-09M25  | YDAX-050H-09M25  | YDAX-070H-09M25  | YDAX-100H-09M25  | YDAX-100H-09T35  | YDAX-140H-09T35  | YDAX-175H-09T35  |
|---------------------------------|--------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Part number                     |        |                  | 7SP063170        | 7SP063171        | 7SP063172        | 7SP063173        | 7SP063174        | 7SP063175        | 7SP063176        |
| Sound pressure level at 1 m     | dB(A)  | 51               | 54               | 57               | 59               | 59               | 59               | 63               | 63               |
| Sound level                     | dB(A)  | 62               | 65               | 68               | 70               | 70               | 70               | 74               | 74               |
| Airflow                         | m³/h   | 2200             | 2100             | 3500             | 4000             | 4000             | 4000             | 7500             | 7500             |
| Compressor type                 |        | Rotary           | Rotary           | Rotary           | Rotary           | Rotary           | Rotary           | Rotary           | Rotary           |
| Unit dimensions (WxHxD)         | mm     | 765x555x303      | 805x554x330      | 890x673x342      | 946x810x410      | 946x810x410      | 946x810x410      | 952x1333x415     | 952x1333x415     |
| Package dimensions (WxHxD)      | mm     | 887x610x337      | 915x615x370      | 995x740x398      | 1090x885x500     | 1090x885x500     | 1090x885x500     | 1095x1480x495    | 1095x1480x495    |
| Net weight/Gross weight         | kg     | 26.6/29.4        | 32.5/35.3        | 43.9/46.7        | 66.9/72.1        | 66.9/72.1        | 75.5/85.6        | 103.7/118.3      | 107.0/121.2      |
| POWER SUPPLY                    |        |                  |                  |                  |                  |                  |                  |                  |                  |
| Phase/Voltage/Frequency         |        | 1P/220-240V/50Hz | 1P/220-240V/50Hz | 1P/220-240V/50Hz | 1P/220-240V/50Hz | 1P/220-240V/50Hz | 3P/380-415V/50Hz | 3P/380-415V/50Hz | 3P/380-415V/50Hz |
| Power supply side               |        | Outdoor          | Outdoor          | Outdoor          | Outdoor          | Outdoor          | Outdoor          | Outdoor          | Outdoor          |
| Power cable section             | mm²    | 3x1.5            | 3x1.5            | 3x2.5            | 3x4.0            | 3x4.0            | 5x2.5            | 5x2.5            | 5x2.5            |
| Max. current (D curve)          | A      | 10               | 16               | 20               | 25               | 25               | 16               | 16               | 16               |
| Shielded electrical connections | mm²    | 4x1.0            | 4x1.0            | 4x1.0            | 4x1.0            | 4x1.0            | 4x1.0            | 4x1.0            | 4x1.0            |
| PIPE LINE                       |        |                  |                  |                  |                  |                  |                  |                  |                  |
| Suction pipe diameter           | inches | 3/8"             | 1/2"             | 5/8"             | 5/8"             | 5/8"             | 5/8"             | 5/8"             | 5/8"             |
| Liquid pipe diameter            | inches | 1/4"             | 1/4"             | 3/8"             | 3/8"             | 3/8"             | 3/8"             | 3/8"             | 3/8"             |
| Max. length                     | m      | 25               | 30               | 50               | 75               | 75               | 75               | 75               | 75               |
| Max. height                     | m      | 10               | 20               | 25               | 30               | 30               | 30               | 30               | 30               |
| Refrigerant/GWP                 |        | R32/675          | R32/675          | R32/675          | R32/675          | R32/675          | R32/675          | R32/675          | R32/675          |
| Charge (5 m)                    | kg     | 0.72             | 1.15             | 1.50             | 2.40             | 2.40             | 2.40             | 2.90             | 3.00             |
| Additional charge               | g/m    | 12               | 12               | 24               | 24               | 24               | 24               | 24               | 24               |

## MATCHING

| INDOOR UNIT<br>DUCTED                                                                               | COMPATIBLE WITH OUTDOOR UNIT                                                             |                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                     | MONOSPLIT                                                                                | MULTISPLIT                                                                                                                                                                        |
| <br>DDMX 035-050 |  YDAX |  ZDAA  YDZC |
| <br>DDMX 070-100 |  YDAX |                                                                                                                                                                                   |
| <br>DDMX 140-175 |  YDAX |                                                                                                                                                                                   |