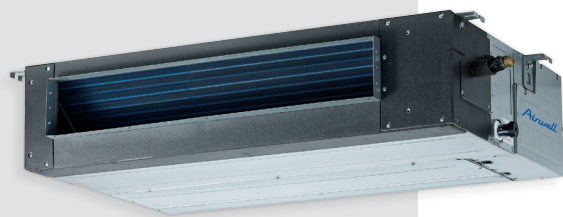




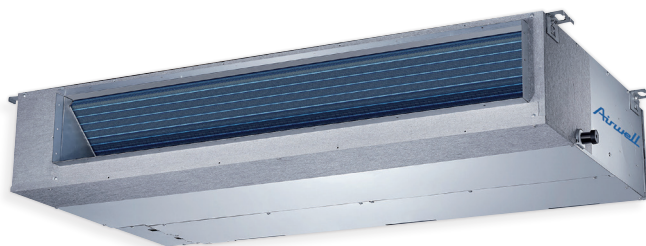
DC Inverter  
Cooling & heating

# DDM

## DUCTED MEDIUM STATIC PRESSURE



DDM 012



DDM 018-060



### + PRODUCTS

- RCW11 remote control included
- Low height (200 mm)
- Alarm output and dry contact
- Integrated condensate pump
- Fresh air supply possible
- Multisplit compatible
- Constant flow control

### FEATURES

#### TECHNOLOGY:



#### AIR QUALITY/CLEAN:



#### USER FUNCTIONS:



#### INSTALLER FUNCTIONS:



### CERTIFICATION

AIRWELL participates in the ECP programme for AC1.  
Check ongoing validity of certificate:  
[www.eurovent-certification.com](http://www.eurovent-certification.com)



\* models so marked are not Eurovent certified

### THE «SUSTAINABLE DEVELOPMENT»

→ High energy class A++ (cooling mode)  
/ A+ (heating mode)

### THE «USER»

→ Invisible: blends into all types of interiors  
→ Quiet

### THE «INSTALLER»

→ Suitable for long duct lengths (160 Pa)

### THE «TECHNOLOGY»

→ Golden Fin (high corrosion resistance)  
→ Electronic expansion valve  
→ Self-adjusting static pressure



### OPTIONS

| Accessory                 | Part number | Photo | Function/Description                                                            |
|---------------------------|-------------|-------|---------------------------------------------------------------------------------|
| Wireless controller RC08C | 7ACEL1740   |       | Timer, eco mode, "Follow me" option, swing, technician mode, heating only mode. |
| Wired control RCW26       | 7ACEL1876   |       | Controls up to 16 units.                                                        |
| Adapter card for RCW26    | 7ACEL1776   |       | Adapter card for RCW26.                                                         |
| Test tool                 | 7ACEL1710   |       | Easy viewing of system parameters, failure records and parameter adjustments.   |
| LCAC WiFi Accessory       | 7ACEL1883   |       | Accessory for remote control in WiFi.                                           |
| Insulated air duct plenum | 7ACVF0136   |       | 3 ducts DN160. For DDM 12-18.                                                   |
|                           | 7ACVF0137   |       | 3 ducts DN 160. For DDM 24.                                                     |
|                           | 7ACVF0138   |       | 3 ducts DN 160. For DDM 36.                                                     |
|                           | 7ACVF0139   |       | 3 ducts DN 160. For DDM 48-60.                                                  |

\* Available during 2021.

**Airwell**  
Just feel well

\* Disponible courant 2021.

Wellzone: The ideal temperature in each room

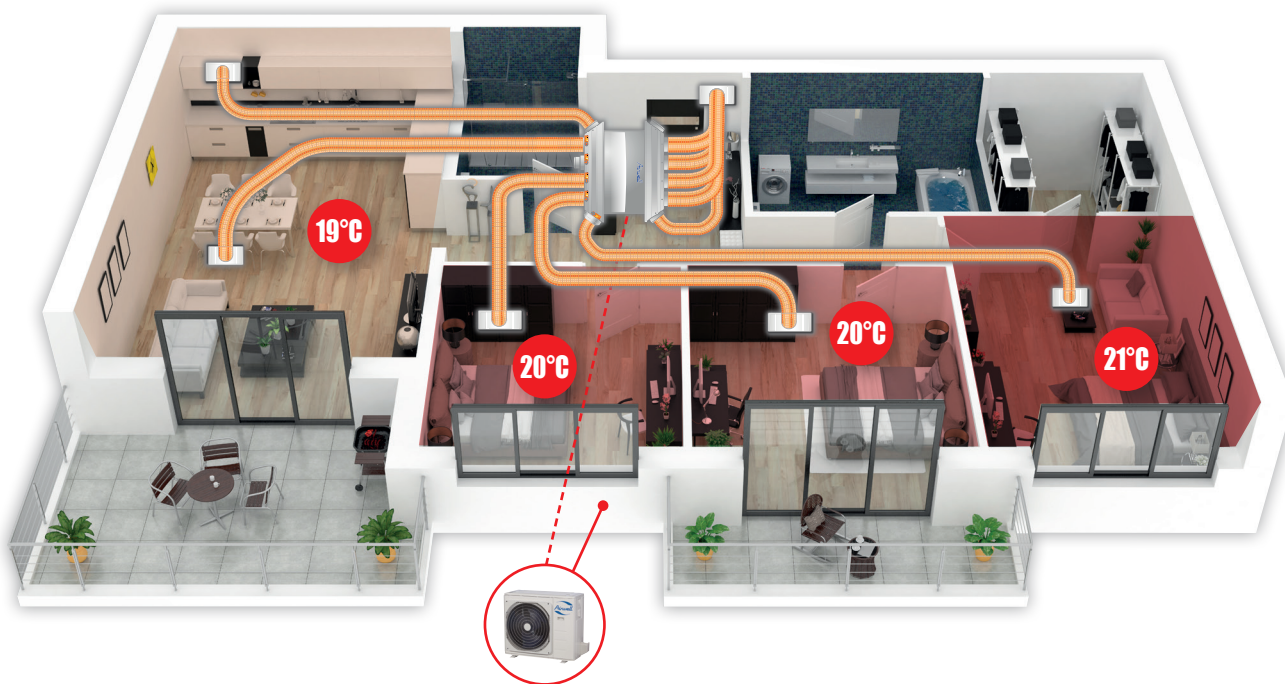
**INFO!**

This solution works with the DDM ducted.

More details on p. 26

- Air/air heat pump: **control up to 6 zones** in heating and cooling mode.
- The air dampers modify their position (from 0 to 100%) in accordance with the thermostat 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 on/off switch.
- **Invisible** air conditioning and heating solution for the whole house.
- **Low cost** system (1 single indoor unit).

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



It's easy to place an order:  
1 single code for the complete kit of your choice!

### CONTENTS OF A COMPLETE WELLZONE KIT



Supply air and return plenums  
+ actuators



Diffusion and  
return grilles



Ducts



Control system  
gateway



Thermostats

## Option 1: Your all inclusive solution

| Reference        | Description                          | Compatibility | Part number |
|------------------|--------------------------------------|---------------|-------------|
| 1 WELLZONE 3V    | Control up to 3 zones                | DDM 12-24     | 7ACEL1805   |
| 2 WELLZONE 4V    | Control up to 4 zones                | DDM 12-24     | 7ACEL1806   |
| 3 WELLZONE 4V-5S | Control up to 4 zones with 5 outputs | DDM 24-60     | 7ACEL1807   |
| 4 WELLZONE 5V    | Control up to 5 zones                | DDM 24-60     | 7ACEL1808   |
| 5 WELLZONE 6V    | Control up to 6 zones                | DDM 24-60     | 7ACEL1809   |

|                        | 1 WELLZONE 3V | 2 WELLZONE 4V | 3 WELLZONE 4V-5S | 4 WELLZONE 5V | 5 WELLZONE 6V |
|------------------------|---------------|---------------|------------------|---------------|---------------|
| Description            | Quantity      | Quantity      | Quantity         | Quantity      | Quantity      |
| Supply air plenum      | 1             | 1             | 1                | 1             | 1             |
| Thermostat             | 3             | 4             | 4                | 5             | 6             |
| Control system gateway | 1             | 1             | 1                | 1             | 1             |
| Servomotors            | 3             | 4             | 5                | 5             | 6             |
| Return plenum          | 1             | 1             | 1                | 1             | 1             |
| 400x150 grille         | 1             | 2             | 2                | 2             | 3             |
| 250/200 reducer        | -             | -             | 2                | 2             | 1             |
| 250/160 reducer        | -             | -             | -                | -             | 3             |
| 400x150 plenum         | 1             | 2             | 2                | 2             | 3             |
| 300x150 grille         | 2             | 2             | 3                | 3             | 3             |
| 300x150 plenum         | 2             | 2             | 3                | 3             | 3             |
| 600x400 return grille  | 1             | 1             | 2                | 2             | 2             |
| 600x400 return plenum* | 1             | 1             | 2                | 2             | 2             |
| 10-m duct Ø160         | 2             | 2             | 3                | 3             | 3             |
| 10 m duct Ø200         | 2             | 3             | 4                | 4             | 5             |
| 10 m duct Ø250         | 1             | 1             | 2                | 2             | 2             |

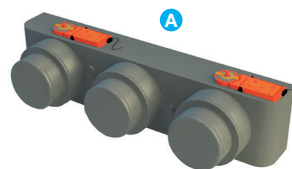
\* Ø2x200, Ø1x250.

## Option 2: Create your Wellzone

Take only the key items of your Wellzone pack  
(see table below), duct, grilles and plenum not included.

The most  
economical solution

### CONTENTS OF A CONTROL SYSTEM PACK



Supply air plenum  
+ actuators



Control system  
gateway



Thermostats

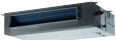
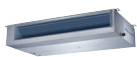
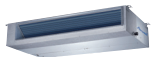
| Reference                | Description           | Compatibility | Part number |
|--------------------------|-----------------------|---------------|-------------|
| PACK WZ 3V               | A x 1 / B x 1 / C x 3 | DDM 12-24     | 7ACEL1810   |
| PACK WZ 4V               | A x 1 / B x 1 / C x 4 | DDM 12-24     | 7ACEL1811   |
| PACK WZ 4V-5S            | A x 1 / B x 1 / C x 4 | DDM 24-60     | 7ACEL1812   |
| PACK WZ 5V               | A x 1 / B x 1 / C x 5 | DDM 24-60     | 7ACEL1813   |
| PACK WZ 6V               | A x 1 / B x 1 / C x 6 | DDM 24-60     | 7ACEL1814   |
| PLENUM 3S 1100 DDM 12-24 | Return plenum         | DDM 12-24     | 7ACEL1822   |
| PLENUM 4S 1050 DDM 12-24 | Return plenum         | DDM 12-24     | 7ACEL1823   |
| PLENUM 6S 1500 DDM 12-60 | Return plenum         | DDM 12-60     | 7ACEL1824   |

## DDM TECHNICAL DATA

| Indoor unit                              |        | AW-DDM012-N91     | AW-DDM018-N91    | AW-DDM024-N91    | AW-DDM036-N91      | AW-DDM036-N91      | AW-DDM048-N91*     | AW-DDM060-N91*     |
|------------------------------------------|--------|-------------------|------------------|------------------|--------------------|--------------------|--------------------|--------------------|
| Outdoor unit R32                         |        | AW-YDFA012-H91    | AW-YDFA018-H91   | AW-YDFA024-H91   | AW-YDFA036-H91     | AW-YDFA036-H93     | AW-YDFA048-H93     | AW-YDFA060-H93     |
| Phase                                    |        | Single phase      | Single phase     | Single phase     | Single phase       | Three phase        | Three phase        | Three phase        |
| COOLING                                  |        |                   |                  |                  |                    |                    |                    |                    |
| Rated power (min./max.)                  | kW     | 3.53 (1.50-4.75)  | 5.30 (1.49-5.69) | 7.05 (3.28-8.16) | 10.50 (4.04-12.02) | 10.50 (4.04-12.02) | 14.18 (4.26-15.19) | 15.24 (5.86-17.29) |
| Pdesigngc                                | kW     | 3.50              | 5.30             | 7.00             | 10.50              | 10.50              | 14.00              | 15.40              |
| Rated power input                        | kW     | 0.95              | 1.63             | 2.19             | 4.18               | 4.02               | 5.15               | 5.42               |
| SEER/Energy label                        |        | 6.5/A++           | 6.1/A++          | 6.1/A++          | 6.1/A++            | 6.1/A++            | 6.1/A++            | 6.1/A++            |
| Operating limits                         | °C     | -15°/50° Dry bulb |                  |                  |                    |                    |                    |                    |
| HEATING                                  |        |                   |                  |                  |                    |                    |                    |                    |
| Rated power (min./max.)                  | kW     | 4.10 (0.97-5.63)  | 5.84 (2.2-6.15)  | 7.60 (2.72-8.72) | 11.10 (2.81-13.19) | 11.10 (2.81-13.19) | 15.70 (3.7-18.02)  | 18.17 (4.69-20.52) |
| Pdesignnh (average climate)              | kW     | 3.20              | 4.60             | 5.10             | 8.40               | 8.50               | 12.00              | 12.50              |
| Pdesignnh (warmer climate)               | kW     | 3.70              | 5.30             | 6.10             | 10.50              | 10.50              | 12.50              | 13.10              |
| Rated power input                        | kW     | 1.10              | 1.51             | 1.94             | 3.10               | 3.00               | 4.28               | 5.33               |
| 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+++           | 5.0/A++            | 5.1/A+++           | 5.1/A+++           |
| Operating limits                         | °C     | -15°/24° Dry bulb |                  |                  |                    |                    |                    |                    |
| Power @ -10 °C                           | kW     | 3.92              | 4.47             | 6.32             | 9.17               | 9.11               | 11.76              | 13.96              |
| Power @ -15 °C                           | kW     | 3.67              | 4.18             | 5.92             | 8.59               | 8.54               | 11.02              | 13.07              |
| INDOOR UNIT                              |        |                   |                  |                  |                    |                    |                    |                    |
| Sound pressure level to 1 m (LS/MS/HS)   | dB(A)  | 26/31/35          | 33/38/42         | 38/40/42         | 39/42/45           | 40/43/50           | 48/50/51           | 51/52/54           |
| Sound power level                        | dB(A)  | 56                | 59               | 62               | 62                 | 63                 | 68                 | 71                 |
| Airflow (LS/MS/HS)                       | m³/h   | 300/480/600       | 350/650/880      | 839/1054/1248    | 750/1150/1400      | 750/1150/1400      | 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    | 1.5               | 2.0              | 3.0              | 3.8                | 3.8                | 4.5                | 5.5                |
| Outline dimensions (WxHxD)               | mm     | 700x200x506       | 880x210x674      | 1100x249x774     | 1360x249x774       | 1360x249x774       | 1200x300x874       | 1200x300x874       |
| Package dimensions (WxHxD)               | mm     | 860x285x540       | 1070x280x725     | 1305x305x805     | 1570x305x805       | 1570x305x805       | 1405x355x915       | 1405x355x915       |
| Net weight/Gross weight                  | kg     | 18/22             | 24.3/29.6        | 31.5/38.9        | 40.5/48.5          | 40.5/48.5          | 47.6/55.8          | 47.6/55.8          |
| Part number                              |        | 7SP033031         | 7SP033032        | 7SP033033        | 7SP033034          | 7SP033034          | 7SP033035          | 7SP033036          |
| OUTDOOR UNIT                             |        |                   |                  |                  |                    |                    |                    |                    |
| Sound pressure level to 1 m              | dB(A)  | 56                | 55               | 61               | 63                 | 64                 | 66                 | 64                 |
| Sound power level                        | dB(A)  | 62                | 62               | 66               | 68                 | 68                 | 72                 | 74                 |
| Airflow                                  | m³/h   | 2000              | 2000             | 2700             | 4000               | 4000               | 7500               | 7500               |
| Compressor type                          |        | Rotary DCI        | Rotary DCI       | Rotary DCI       | Rotary DCI         | Rotary DCI         | Rotary DCI         | Rotary DCI         |
| Outline dimensions (WxHxD)               | mm     | 800x554x333       | 800x554x333      | 845x702x363      | 946x810x410        | 946x810x410        | 952x1333x415       | 952x1333x415       |
| Package dimensions (WxHxD)               | mm     | 920x615x390       | 920x615x390      | 965x765x395      | 1090x875x500       | 1090x875x500       | 1095x1480x495      | 1095x1480x495      |
| Net weight/Gross weight                  | kg     | 34.7/37.5         | 33.7/36.6        | 49.4/52.8        | 66.8/73.4          | 81.5/87.0          | 106.7/119.9        | 111.3/124.3        |
| Part number                              |        | 7SP063050         | 7SP063051        | 7SP063052        | 7SP063053          | 7SP063054          | 7SP063055          | 7SP063056          |
| POWER SUPPLY                             |        |                   |                  |                  |                    |                    |                    |                    |
| Phase/Voltage/Frequency                  |        | 1P/220-240V/50Hz  | 1P/220-240V/50Hz | 1P/220-240V/50Hz | 1P/220-240V/50Hz   | 3P/380-410V/50Hz   | 3P/380-410V/50Hz   | 3P/380-410V/50Hz   |
| Power supply side                        |        | Outdoor           | Outdoor          | Ind. & Out.      | Ind. & Out.        | Ind. & Out.        | Ind. & Out.        | Ind. & Out.        |
| Power cable section                      | mm²    | 3x1.5             | 3x1.5            | 3x1.5+3x2.5      | 3x1.5+3x4          | 3x1.5+5x2.5        | 3x1.5+5x2.5        | 3x1.5+5x2.5        |
| Fuse rating am (D curve)                 | A      | 16                | 16               | 10+25            | 10+30              | 10+20              | 10+25              | 10+25              |
| Electrical connections                   | mm²    | 4x1.5             | 4x1.5            | 2x0.5            | 2x0.5              | 2x0.5              | 2x0.5              | 2x0.5              |
| PIPE LINE                                |        |                   |                  |                  |                    |                    |                    |                    |
| Suction pipe diameter                    | inches | 3/8"              | 1/2"             | 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"               |
| Max. length                              | m      | 25                | 30               | 50               | 65                 | 65                 | 65                 | 65                 |
| Max. height                              | m      | 10                | 20               | 25               | 30                 | 30                 | 30                 | 30                 |
| Refrigerant/GWP                          |        | R32/675           | R32/675          | R32/675          | R32/675            | R32/675            | R32/675            | R32/675            |
| Charge (5 m)                             | kg     | 0.87              | 1.15             | 1.5              | 2.4                | 2.4                | 2.8                | 2.95               |
| Additional charge                        | g/m    | 12                | 12               | 24               | 24                 | 24                 | 24                 | 24                 |
| R410A YMD outdoor unit compatible*       |        | AWAU-YMD012-H11   | AWAU-YMD018-H11  | AWAU-YMD024-H11  | AWAU-YMD036-H11    | -                  | AWAU-YMD048-H13    | AWAU-YMD060-H13    |
| Part number                              |        | 7SP062970         | 7SP062972        | 7SP062893        | 7SP062895          | -                  | 7SP062899          | 7SP062900          |

\* Technical specifications - See R410A documentation. Within the limits of available stocks.

## COMBINATIONS

| Indoor unit                                                                                        | Compatible with outdoor unit                                                                |                                                                                             |
|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Ducted                                                                                             | Monosplit                                                                                   | Multisplit                                                                                  |
| DDM 12 & 18<br> | YDFA<br> | YDZC<br> |
| DDM 24 & 36<br> | YDFA<br> |                                                                                             |
| DDM 48 & 60<br> | YDFA<br> |                                                                                             |