

# DLSE+vav DUCTED MEDIUM STATIC PRESSURE MONOSPLIT

**Airwell**  
Just feel well



All sizes except DLSE 043



- Comfort "I Feel": temperature sensor in RC08W remote control.
- Energy savings via variation of the airflow of the outdoor unit.
- A set temperature in each room with a single monosplit system.
- Guaranteed energy saving through weekly programming.
- Anti-corrosive treatment that increases the life of the unit.

## + PRODUCTS

- Variable Air Volume Solution.
- Water pump included.
- Quiet mode.



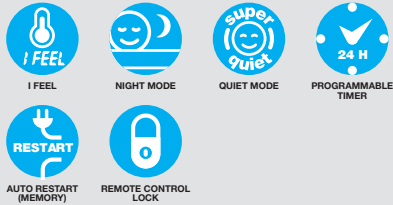
RCW2 included    C85-R (included with damper)    RC08W (optional)

## FEATURES

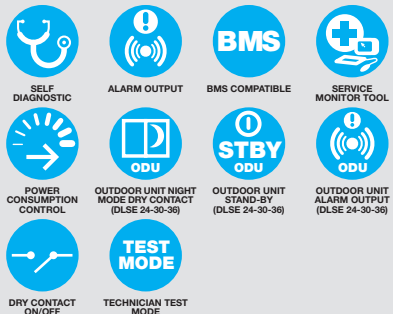
### TECHNOLOGY:



### USER FUNCTIONS:



### INSTALLER FUNCTIONS:



GLOBAL AND INVISIBLE SOLUTION FOR YOUR HOME

Indoor unit

Outdoor unit

Zone control: Ideal temperature in each room

**THE SOLUTION DLSE + VAV ALLOWS  
UP TO 30% SAVINGS (installation and equipment)  
IN RELATION TO STANDARD SYSTEMS**

- Invisible solution to heat and refresh the whole house.
- Super quiet running.
- Inexpensive installation (less tubing work...).
- Low-cost system (only one indoor unit).



## ZONE CONTROL FUNCTION

- Smart air conditioning: Controls up to 6 rooms.
- Each zone has a standalone remote control, to control temperature, "I Feel" and ON/OFF.
- Option to define automatic damper movement or manually to keep max. opening position.
- By-pass damper operates according to system load, which ensures air circulation in the indoor unit.
- Auto-mode: automatically recognizes cooling or heating mode.
- Motorized damper with DC step motor for accurate damper position.
- The blowing dampers change their position (open/close), in accordance with the temperature setpoint in each room, which keeps required temperature.

## EASY INSTALLATION

- Simple wiring connection by connectors and set up.
- Up to 70m between indoor and outdoor units.
- Monosplit indoor unit: time saving (little tubing).
- Option for installing the control box besides the unit.
- Water pump and overflow switch built in.

**Good to know!**

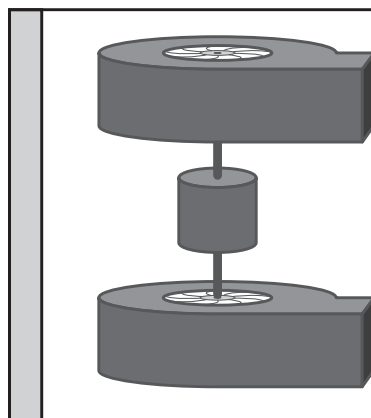
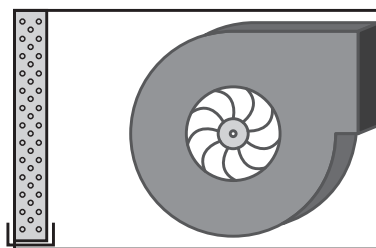
Use our design document to select easily your system.

Ask us this helpful file: [mkg@airwell-res.com](mailto:mkg@airwell-res.com)

## SPECIAL DESIGN FOR YOUR CONVENIENCE

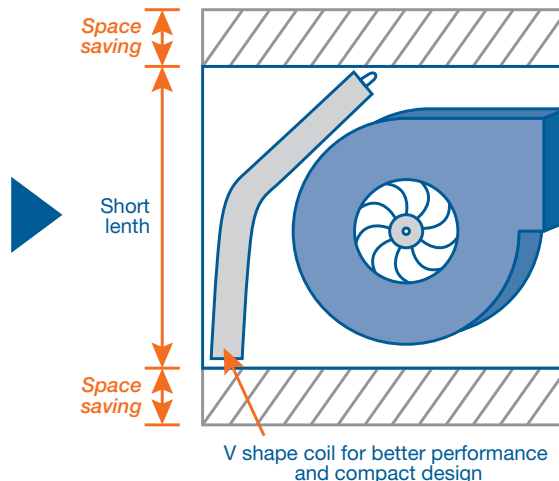
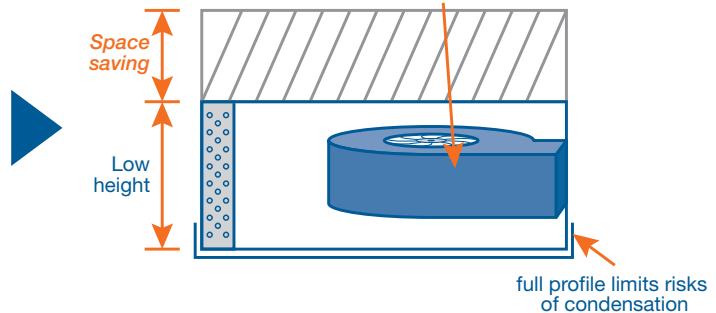
- Unique V shape coil.
- Extra slim indoor unit (low height: 256 mm only).

### STANDARD DESIGN



### DLSE

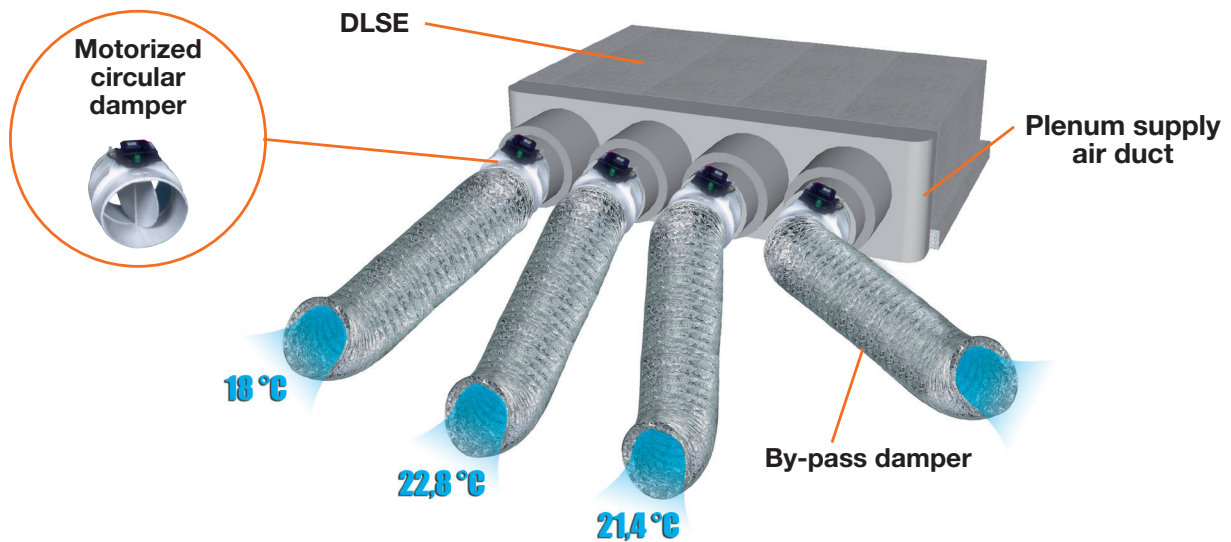
Horizontal fan, higher air volume + high static pressure



# How to order?

- The main controller is identical except the set up which is done during the installation.
- After that, select motorized round damper, by-pass damper and plenum (see table below).

## ROUND APPLICATION



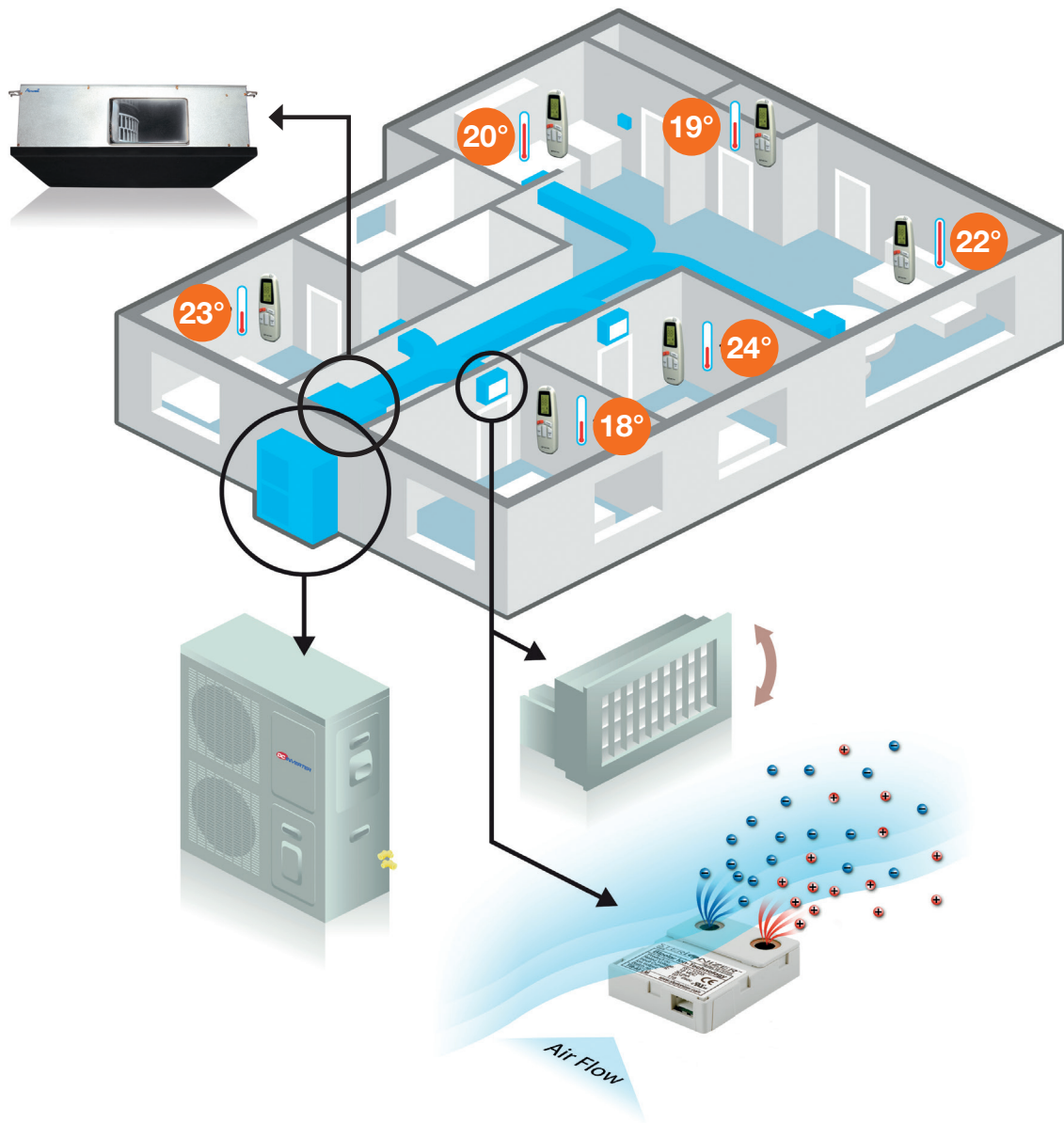
## MOTORIZED ROUND TYPE ACCESSORIES

| Part description   | Part number |
|--|-------------|
| DLSE kit ( <b>mandatory</b> )  | 7ACEL1745   |
| Main controller VAV kit ( <b>mandatory</b> )                                       | 7ACEL1641   |
| Motorized round damper (D=155 mm) kit (Wireless controller C85-R included)         | 7ACEL1657   |
| Motorized round damper (D=200 mm) kit (Wireless controller C85-R included)         | 7ACEL1649   |
| Motorized round damper (D=250 mm) kit (Wireless controller C85-R included)         | 7ACEL1650   |
| Motorized by-pass round damper (D=200 mm) kit (Wireless controller C85-R included) | 7ACEL1651   |
| Motorized by-pass round damper (D=250 mm) kit (Wireless controller C85-R included) | 7ACEL1652   |

## PLENUM ACCESSORIES: ROUND APPLICATION

| Part description   | Models         | Part number |
|--|----------------|-------------|
| 4 outlets in 200 mm + 1 bypass 200 mm (1 obturator 200 mm included)                          | DLSE 18/24     | 7ACVF0130   |
| 4 outlets in 200 mm + 2 outlets in 160 mm + 1 bypass in 200 mm (1 obturator 200 mm included) | DLSE 18/24     | 7ACVF0131   |
| 3 outlets in 200 mm + 1 bypass in 200 mm (intake) (2 obturators 200 mm included)             | DLSE 18/24     | 7ACVF0132   |
| 4 outlets in 200 mm + 1 bypass in 200 mm (1 obturator 200 mm included)                       | DLSE 30 and up | 7ACVF0133   |
| 4 outlets in 200 mm + 2 outlets in 160 mm + 1 bypass 200 mm (1 obturator 200 mm included)    | DLSE 30 and up | 7ACVF0134   |
| 3 sorties in 250 mm+1 bypass in 200 mm (intake) (2 obturators in 250 mm included)            | DLSE 30 and up | 7ACVF0135   |

## RECTANGULAR APPLICATION




## MOTORIZED RECTANGULAR TYPE ACCESSORIES

| Part description   | Part number |
|--|-------------|
| DLSE kit <b>(mandatory)</b>  | 7ACEL1745   |
| Main controller VAV kit  | 7ACEL1641   |
| Motorized grill (30 cm x 15 cm) kit (Wireless controller C85-R included) | 7ACEL1642   |
| Motorized grill (40 cm x 15 cm) kit (Wireless controller C85-R included) | 7ACEL1643   |
| Motorized grill (50 cm x 15 cm) kit (Wireless controller C85-R included) | 7ACEL1644   |
| Motorized by-pass damper (40 cm x 15 cm) kit                             | 7ACEL1645   |
| Motorized by-pass damper (50 cm x 15 cm) kit                             | 7ACEL1646   |
| Duct frame profile for grille 150 mm                                     | 7ACVF0551   |
| Duct frame profile for grille 300 mm                                     | 7ACVF0552   |
| Duct frame profile for grille 400 mm                                     | 7ACVF0553   |
| Duct frame profile for grille 500 mm                                     | 7ACVF0554   |
| Sterionizer kit for motorized grill                                      | 7ACEL1655   |

## DLSE TECHNICAL DATA

| Indoor units                              |        | AWSI-DLSE018-N11  | AWSI-DLSE024-N11   | AWSI-DLSE030-N11   | AWSI-DLSE036-N11    |                     | AWSI-DLSE043-N11 |                 |
|---|--------|-------------------|--------------------|--------------------|---------------------|---------------------|------------------|-----------------|
| Outdoor units                             |        | AWAU-YBDE018-H11  | AWAU-YBDE024-H11   | AWAU-YBDE030-H11   | AWAU-YBD036-H11     | AWAU-YBD036-H13     | AWAU-YBD042-H11  | AWAU-YAD042-H13 |
| Phase                                     |        | Single phase      | Single phase       | Single phase       | Single phase        | Three phases        | Single phase     | Three phases    |
| <b>COOLING</b>                            |        |                   |                    |                    |                     |                     |                  |                 |
| Rated power (min./max.)                   | kW     | 5.0 (2.3-5.9)     | 6.8 (1.7-7.4)      | 7.5 (2.8-8.4)      | 9.5 (4.8-12.5)      | 9.5 (4.8-12.5)      | 12.5 (4.5-14.5)  | 12.5 (4.5-14.5) |
| Pdesignc                                  | kW     | 5.0               | 6.8                | 7.5                | 9.5                 | 9.5                 | -                | -               |
| Rated power input                         | kW     | 1.22              | 1.93               | 2.02               | 3.47                | 3.04                | 3.73             | 3.56            |
| SEER/Energy label                         |        | 5.8/A+            | 5.4/A              | 6.2 / A++          | 6.2 / A++           | 4.7/B               | 3.35/A           | 3.51/A          |
| Operating limits                          | °C     | -10°/46° Dry bulb |                    |                    |                     |                     |                  |                 |
| <b>HEATING</b>                            |        |                   |                    |                    |                     |                     |                  |                 |
| Rated power (min./max.)                   | kW     | 5.6 (1.9-7.5)     | 7.6 (1.8-8.5)      | 8.6 (2.8-9.4)      | 10.5                | 11.6 (4.9-12.5)     | 14.0 (4.5-16.0)  | 14.0 (4.5-16.0) |
| Pdesignh                                  |        | 5.5               | 7.5                | 8.6                | 9.5                 | 10.5                | -                | -               |
| Rated power input                         | kW     | 1.35              | 1.88               | 2.26               | 2.46                | 3.00                | 4.1              | 3.99            |
| SCOP/Energy label (average climate)       |        | 3.9/A             | 3.8/A              | 4.0 / A+           | 4.0 / A+            | 3.9/A               | 3.41/B           | 3.51/B          |
| SCOP/Energy label (warmer climate)        |        | 4.6/A+            | 4.9/A++            | 5.2/A+++           | 4.8/A++             | 4.7/A++             | -                | -               |
| Operating limits                          | °C     | -15°/24° Dry bulb |                    |                    |                     |                     |                  |                 |
| Power @ -10°C                             | kW     | 5.3               | 5.8                | 7.1                | 6.9                 | 8.9                 | 9.3              | 9.3             |
| Power @ -15°C                             | kW     | 4.7               | 5.2                | 6.3                | 6.2                 | 8.0                 | 8.3              | 8.3             |
| <b>INDOOR UNIT</b>                        |        |                   |                    |                    |                     |                     |                  |                 |
| Sound pressure level to 1 m (LS/MS/HS/SS) | dB(A)  | 35/38/41/43       | 38/42/45/48        | 39/43/46/48        | 41/45/46/48         | 41/45/46/48         | 42/46/53         | 42/46/53        |
| Sound power level (LS/MS/HS/SS)           | dB(A)  | 52/55/58/60       | 55/59/62/65        | 56/60/63/65        | 56/61/63/65         | 56/61/63/65         | 57/61/70         | 57/61/70        |
| Airflow (LS/MS/HS/SS)                     | m³/h   | 740/875/1060/1150 | 870/1090/1220/1410 | 950/1140/1290/1410 | 1290/1550/1670/1750 | 1290/1550/1670/1750 | 1315/1530/2025   | 1315/1530/2025  |
| External static pressure Range            | Pa     | 25 (25-60)        | 25 (25-80)         | 25 (25-80)         | 37 (37-100)         | 37 (37-100)         | 50 (50-100)      | 50 (50-100)     |
| Dehumidification                          | l/h    | 1.5               | 2.3                | 2.7                | 3.5                 | 4.6                 | 3.3              | 3.8             |
| Outline dimensions (WxHxD)                | mm     | 790x256x749       | 790x256x749        | 790x256x749        | 854x297x816         | 854x297x816         | 854x297x816      | 854x297x816     |
| Package dimensions (WxHxD)                | mm     | 960x300x855       | 960x300x855        | 960x300x855        | 1005x345x915        | 1005x345x915        | 1005x345x915     | 1005x345x915    |
| Net weight/Gross weight                   | kg     | 29/31.5           | 30/32.5            | 31/33.5            | 33/35.5             | 33/35.5             | 33/35.5          | 33/35.5         |
| Part number                               |        | 7SP032154         | 7SP032155          | 7SP032156          | 7SP032157           | 7SP032157           | 7SP032087        | 7SP032087       |
| <b>OUTDOOR UNIT</b>                       |        |                   |                    |                    |                     |                     |                  |                 |
| Sound pressure level to 1 m               | dB(A)  | 53                | 55                 | 56                 | 58                  | 58                  | 58               | 58              |
| Sound power level                         | dB(A)  | 65                | 67                 | 68                 | 69                  | 69                  | 70               | 70              |
| Airflow                                   | m³/h   | 2500              | 2750               | 3400               | 4150                | 4150                | 5700             | 5700            |
| Compressor type                           |        | Twin Rotary DCI   | Twin Rotary DCI    | Twin Rotary DCI    | Twin Rotary DCI     | Twin Rotary DCI     | Scroll DCI       | Twin Rotary DCI |
| Outline dimensions (WxHxD)                | mm     | 900x700x340       | 900x700x340        | 900x860x340        | 900x970x340         | 900x970x340         | 900x1250x340     | 900x1250x340    |
| Package dimensions (WxHxD)                | mm     | 985x730x435       | 985x730x435        | 985x905x435        | 985x1020x435        | 985x1020x435        | 980x1400x420     | 980x1400x420    |
| Net weight/Gross weight                   | kg     | 56/58.5           | 61/63.5            | 66 / 68.5          | 80 / 82.8           | 85/87.8             | 110/121          | 110/121         |
| Part number                               |        | 7SP061886         | 7SP061887          | 7SP061922          | 7SP061923           | 7SP061900           | 7SP061815        | 7SP061757       |
| <b>POWER SUPPLY</b>                       |        |                   |                    |                    |                     |                     |                  |                 |
| Phase/Tension/Frequency                   |        | 1P/230V/50Hz      | 1P/230V/50Hz       | 1P/230V/50Hz       | 1P/230V/50Hz        | 3P/400V/50Hz        | 1P/230V/50Hz     | 3P/400V/50Hz    |
| Power supply side                         |        | Ind. & Out.       | Outdoor            | Outdoor            | Outdoor             | Outdoor             | Outdoor          | Outdoor         |
| Power cable section                       | mm²    | 3x2.5             | 3x2.5              | 3x2.5              | 3x4.0               | 5x2.5               | 3x6.0            | 5x2.5           |
| Fuse rating am (D curve)                  | A      | 20                | 20                 | 20                 | 25                  | 3x16                | 32               | 3x16            |
| Electrical connections                    | mm²    | 4x1.5             | 4x1.5              | 4x1.5              | 3x1.5 + 2x0.75      | 3x1.5 + 2x0.75      | 3x1.5 + 2x0.75   | 3x1.5 + 2x0.75  |
| <b>PIPE LINE</b>                          |        |                   |                    |                    |                     |                     |                  |                 |
| Suction pipe diameter                     | inches | 1/2"              | 5/8"               | 5/8"               | 5/8"                | 5/8"                | 3/4"             | 3/4"            |
| Liquid pipe diameter                      | inches | 1/4"              | 3/8"               | 3/8"               | 3/8"                | 3/8"                | 3/8"             | 3/8"            |
| Max. length                               | m      | 30                | 30                 | 50                 | 70                  | 70                  | 70               | 70              |
| Max. height                               | m      | 15                | 15                 | 25                 | 30                  | 30                  | 30               | 30              |
| Refrigerant / GWP                         |        | R410A/2088        | R410A/2088         | R410A/2088         | R410A/2088          | R410A/2088          | R410A/2088       | R410A/2088      |
| Charge (precharge length)                 | kg     | 1.55 (15m)        | 2.3 (15m)          | 2.1 (15m)          | 2.5 (30m)           | 2.5 (30m)           | 3.3 (30m)        | 3.2 (30m)       |
| Additional charge                         | g/m    | 35                | 35                 | 50                 | 30                  | 30                  | 40               | 40              |

## COMBINATIONS

| Indoor unit  | Compatible with outdoor unit  |
|--|---|
| Ducted   | Monosplit   |
| DLSE 18<br>       | YBDE<br> |
| DLSE 24 to 43<br> | YBDE<br> |