

## DLSE

DLSE+VAV (Variable Air Volume)

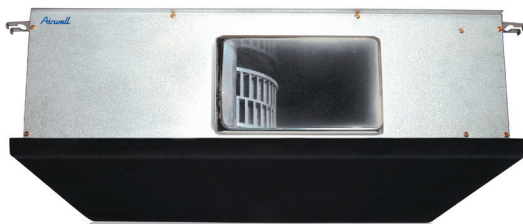
Ducted medium static pressure monosplit DC Inverter



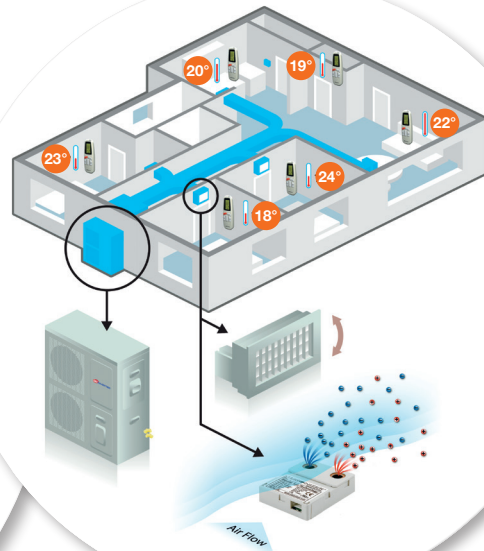
Unique solutions



For DLSE 18-24-30-36



RC08W



## DLSE

# Ducted medium static pressure monosplit DC Inverter

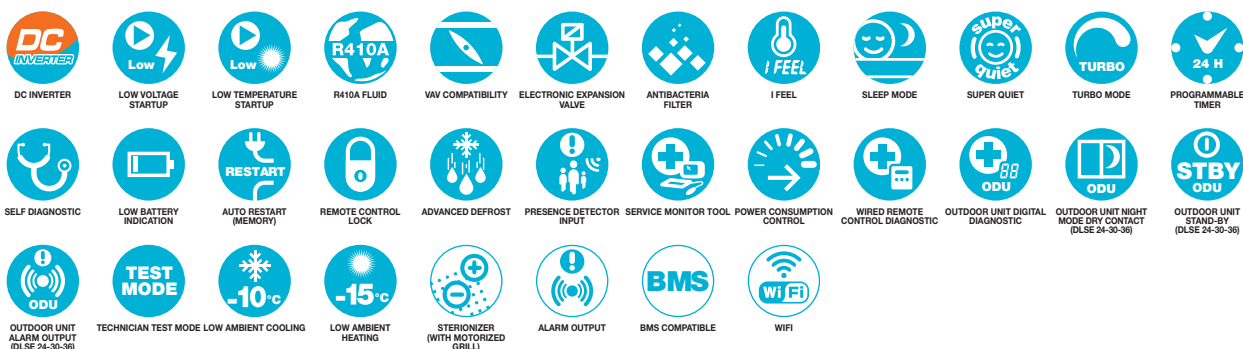
## FUNCTIONS

- > Ducted line available in capacities from 5 up to 12.5 kW.
- > Cooling & heating operation mode.
- > Wireless remote control included with option of wired control.
- > "I Feel" function with precise room temperature control.



## PRODUCT ADVANTAGES

- > Unique fan technology increases air volume and high static pressure while keeping low noise level.
- > Quiet operation by using aerodynamic centrifugal fan.
- > Unit equipped with water pump and overflow switch protector.
- > Space saving due to low unit height and compact dimensions.
- > Tubing length up to 50 m and max height of 30 m.
- > External static pressure up to 100 Pa.
- > Treatment of corrosion on outdoor units and electronic cards.
- > Possibility to reverse dry contact: normally open / normally closed.



# 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.
- "I Feel" function to measure local temperature.
- Stops the system when all rooms have reached the chosen temperature and reduces the motor speed.
- 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.

# Energy and cost saving

- Two levels of energy saving:
  - Level A - by the inverter system following the area load.
  - Level B - by adjusting the airflow and eliminating load from unoccupied rooms.



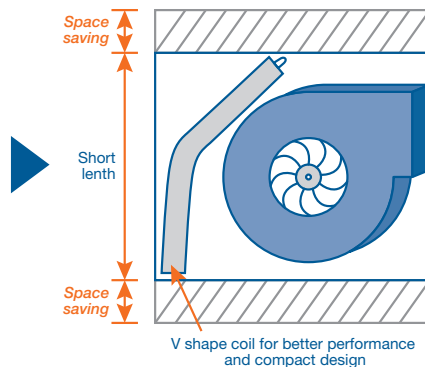
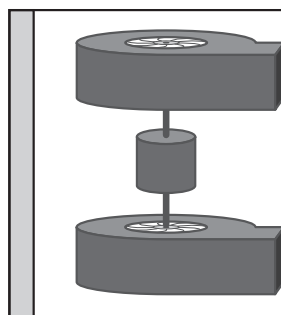
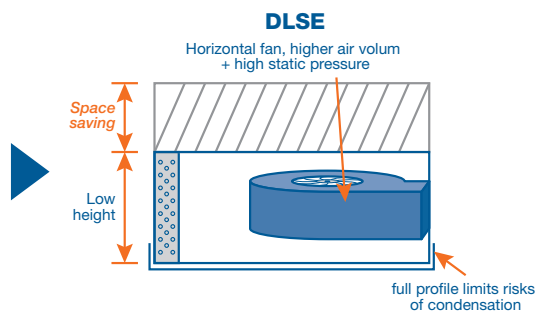
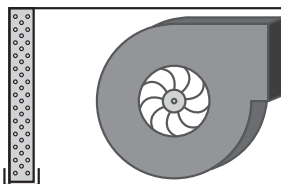
# Easy installation

- Simple wiring connection by connectors and set up.
- Pre charged system with tubing up to 70 m.
- Standard indoor unit.
- Option for installing the control box besides the unit.
- Water pump and overflow switch built in.

# Special design for your convenience

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

## STANDARD DESIGN





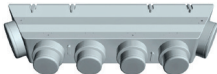
## MOTORIZED ROUND TYPE ACCESSORIES

| Part description                              | Product code |
|---|--------------|
| Main controller VAV kit                       | 7ACEL1641    |
| Motorized round damper (D=150 mm) kit         | 7ACEL1648    |
| Motorized round damper (D=200 mm) kit         | 7ACEL1649    |
| Motorized round damper (D=250 mm) kit         | 7ACEL1650    |
| Motorized by-pass round damper (D=200 mm) kit | 7ACEL1651    |
| Motorized by-pass round damper (D=250 mm) kit | 7ACEL1652    |

## MOTORIZED RECTANGULAR TYPE ACCESSORIES

| Part description                             | Product code |
|--|--------------|
| Main controller VAV kit                      | 7ACEL1641    |
| Motorized grill (30 cm x 15 cm) kit          | 7ACEL1642    |
| Motorized grill (40 cm x 15 cm) kit          | 7ACEL1643    |
| Motorized grill (50 cm x 15 cm) kit          | 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    |

## PLENUM ACCESSORIES

| Part description          |   | Dimensions<br>(WxHxD mm) | Diameter<br>of duct (mm) | Product code |
|---------------------------|---|--------------------------|--------------------------|--------------|
| Universal plenum 3 ducts* |  | 1100x350x370             | 250/200/160              | 7ACVF0127    |
| Universal plenum 4 ducts* |  | 1050x350x280             | 250/200/160              | 7ACVF0128    |
| Universal plenum 6 ducts* |  | 1485x350x420             | 4x200/160/2x250          | 7ACVF0129    |

\* Supplied with one set of fixing elastomers, 1 manual and 6, 8 or 12 caps.

# DLSE

## Ducted medium static pressure monosplit DC Inverter



### [ TECHNICAL DATA ]

| Indoor units                              |        | AWSI-DLSE018-N11        | AWSI-DLSE024-N11        | AWSI-DLSE030-N11        | AWSI-DLSE036-N11        |                         | DLSE 43 DCI R410 AW |                         |
|---|--------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---------------------|-------------------------|
| Outdoor units                             |        | AWAU-YBDE018-H11        | AWAU-YBDE024-H11        | AWAU-YBDE030-H11        | AWAU-YBD036-H11         | AWAU-YBD036-H13         | AWAU-YBD042-H11     | AWAU-YAD042-H13         |
| <b>COOLING</b>                            |        |                         |                         |                         |                         |                         |                     |                         |
| Rated capacity                            | 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)         |
| Pdesignnc                                 | kW     | 5.0                     | 6.8                     | 7.5                     | 9.5                     | 9.5                     | -                   | -                       |
| Rated power input                         | kW     | 1.22                    | 1.93                    | 2.46                    | 3.31                    | 3.04                    | 3.73                | 3.56                    |
| SEER/Energy label                         |        | 5.8/A+                  | 5.4/A                   | 5.5/A                   | 5.6/A+                  | 4.7/B                   | 3.35/A              | 3.51/A                  |
| Operating limits                          | °C     | -10°/46° Dry bulb       |                         |                         |                         |                         |                     |                         |
| <b>HEATING</b>                            |        |                         |                         |                         |                         |                         |                     |                         |
| Rated capacity                            | kW     | 5.6 (1.9-7.5)           | 7.6 (1.8-8.5)           | 8.6 (2.8-9.4)           | 10.5 (2.7-12.5)         | 11.6 (4.9-12.5)         | 14.0 (4.5-16.0)     | 14.0 (4.5-16.0)         |
| Pdesigngh                                 |        | 5.5                     | 7.5                     | 8.6                     | 9.5                     | 10.5                    | -                   | -                       |
| Rated power input                         | kW     | 1.35                    | 1.88                    | 2.31                    | 2.80                    | 3.00                    | 4.1                 | 3.99                    |
| SCOP/Energy label (average climate)       |        | 3.9/A                   | 3.8/A                   | 3.9/A                   | 3.8/A                   | 3.9/A                   | 3.41/B              | 3.51/B                  |
| SCOP/Energy label (warmer climate)        |        | 4.6/A+                  | 4.9/A++                 | 4.3/A+                  | 4.6/A+                  | 4.7/A++                 | -                   | -                       |
| Operating limits                          | °C     | -15°/24° Dry bulb       |                         |                         |                         |                         |                     |                         |
| Capacity @ -10°C                          | kW     | 5.3                     | 5.8                     | 7.1                     | 6.9                     | 8.9                     | 9.3                 | 9.3                     |
| Capacity @ -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 DC Inverter | Twin Rotary DC Inverter | Twin Rotary DC Inverter | Twin Rotary DC Inverter | Twin Rotary DC Inverter | Scroll DC Inverter  | Twin Rotary DC Inverter |
| 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 1-230V - 50 Hz                |        | 7SP061886               | 7SP061887               | 7SP061888               | 7SP061811               | -                       | 7SP061815           | -                       |
| Part number 3-400V - 50 Hz - N            |        | -                       | -                       | -                       | -                       | 7SP061900               | -                   | 7SP061757               |
| <b>POWER SUPPLY 1-230V - 50 HZ</b>        |        |                         |                         |                         |                         |                         |                     |                         |
| Power supply side                         |        | Ind. & Out.             | Outdoor                 | Outdoor                 | Outdoor                 | -                       | Outdoor             | -                       |
| Power cable section                       | mm²    | 3x2.5                   | 3x2.5                   | 3x2.5                   | 3x4.0                   | -                       | 3x6.0               | -                       |
| Fuse rating                               | A      | 20                      | 20                      | 20                      | 25                      | -                       | 32                  | -                       |
| Electrical connections                    | mm²    | 4x1.5                   | 4x1.5                   | 4x1.5                   | 3x1.5 + 2x0.75          | -                       | 3x1.5 + 2x0.75      | -                       |
| <b>POWER SUPPLY 3-400V - 50 HZ - N</b>    |        |                         |                         |                         |                         |                         |                     |                         |
| Power supply side                         |        | -                       | -                       | -                       | -                       | Outdoor                 | -                   | Outdoor                 |
| Power cable section                       | mm²    | -                       | -                       | -                       | -                       | 5x2.5                   | -                   | 5x2.5                   |
| Fuse rating am                            | A      | -                       | -                       | -                       | -                       | 3x16                    | -                   | 3x16                    |
| Electrical connections                    | mm²    | -                       | -                       | -                       | -                       | 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                      |



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