



DC INVERTER range

DUO 50 DCI Multi-split unit

Airwell
Air Conditioning

INVERTER RANGE

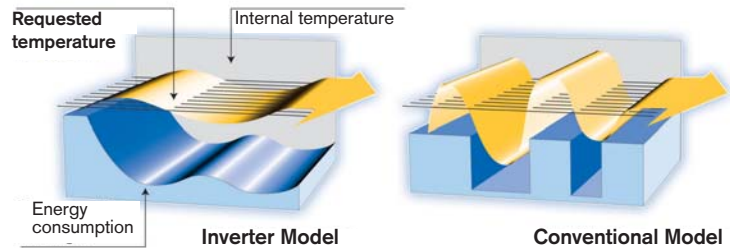
The **DUO 50 DCI** has the advantage of AIRWELL's renowned know-how and the latest advances in DC INVERTER technology for optimum efficiency and exceptional performance levels. Its flexibility and user friendliness, ability to retain a constant temperature and broad operating range make the **DUO 50 DCI** an exceptional multi-split unit. A genuine compact technological masterpiece, the **DUO 50 DCI** has been designed to provide a very high user comfort level and to be very easy to fit for installers.



The **DUO 50 DC INVERTER** multi-split is available with **R410A**, an ecologically friendly fluid preserving the ozone layer. It is easily recyclable, and its high density and energy efficiency (class A label) make for high performance coefficients (operates in hot mode down to -15°), thereby providing significant energy savings.

■ The Inverter technology comprises:

- A DC INVERTER-type variable power compressor that provides better regulation and temperature control.
- 30% energy saving.
- ultra silent operation.



■ Energy savings

The DUO 50 DCI can run continuously while modulating its power supply according to the room temperature. The accurate detection of cooling or heating loads avoids the need for frequent power changes and ensures efficient and economic operation.

■ Silent operation

The DUO 50 DCI uses a latest generation Scroll DC Inverter compressor. The Scroll DC Inverter compressor significantly reduces the noise level and vibrations in comparison with traditional compressors, thereby ensuring silent operation.

■ Small size

Thanks to the compressor's and exchanger's optimised size and weight specifications, the DUO 50 DCI is among the most compact multi-split units on the market.



Energy		Air conditioner
Manufacturer		Airwell
Outdoor unit		DUO 50 DCI
Indoor unit		
Economic		A
A		
B		
C		
D		
E		
F		
G		
Uneconomic		
Annual energy consumption, kWh in cooling mode		
<small>(the actual consumption depends on how the device is used and on the climate)</small>		
Cooling capacity	kW	5
Energy efficiency level		3.4
<small>at full load (must be as high as possible)</small>		
Type	Cooling only	
	Cooling and heating	←
	Air cooling	←
	Water cooling	
Heating capacity	kW	
Energy performance in heating mode		
<small>A: economic G: uneconomic</small>		
Noise		52
<small>(dB(A))</small>		
A detailed information sheet is included in the brochure		
<small>Standard EN Air conditioner "Energy labelling" directive 2002/31/EC</small>		

Compatible indoor units

With a refined design, tried and tested technology, reliable components, the indoor units compatible with the DUO 50 DCI also offer extremely low noise levels and an unrivalled quality of air treatment, which means they can be incorporated into all residential and tertiary sector environments.



FLO 9/12 DCI



SX 9/12 DCI



K 9/12 DCI



BS 12 DCI

DUO 50 DCI Outdoor unit

The heat-stable polyester material structure provides a reduction in the noise level, weight and a prolonged service life. The anticorrosion treatment with a High density powder paint coating ensures high resistance whatever the operating conditions.

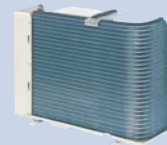


DUO 50 DCI



❖ COMPRESSOR

A variable power DC INVERTER Scroll type, this compressor provides high efficiency and increased acoustic isolation.



❖ CONDENSER

"Bluefin" hydrophilic treatment promotes the flow of condensates, while also providing corrosion protection to maintain performance levels and prolonging the service life.



❖ VENTILATOR MOTOR

A variable power DC INVERTER type, this high efficiency motor provides silent operation.



❖ PROPELLER

With 3 aerodynamic blades, the propeller offers better balance, enhances the exchange process and makes silent operation possible.

These exclusive products makes it possible to satisfy the multiple requirements of the residential and tertiary sectors.

Combinations (examples)

Extremely compact, the DUO 50 DCI is a "3 in 1" Heat pump Bi-Split unit that has the distinction of being able to combine with FLO/SX/K 9 DC INVERTER and FLO/SX/K/BS 12 DC INVERTER indoor units in 3 different combinations.

<p>DUO 50 DCI 9-9 combination</p> 	<p>FLO 9 DCI</p> 	+	<p>SX 9 DCI</p> 
<p>DUO 50 DCI 9-12 combination</p> 	<p>SX 9 DCI</p> 	+	<p>K 12 DCI</p> 
<p>DUO 50 DCI 12-12 combination</p> 	<p>K 12 DCI</p> 	+	<p>BS 12 DCI</p> 

INVERTER RANGE



DUO DC INVERTER Series

DUO 50 DC INV

Heating capacity⁽¹⁾	kW	6.2 (0.95-7.75)
Power input	kW	1.67
COP / Energy label		3.71 / A

Cooling capacity⁽²⁾	kW	5 (1.2-6.48)
Power input	kW	1.47
EER / Energy label		3.4 / A

OUTDOOR UNITS

Airflow	m ³ /h	2160
Acoustic pressure to 1m ⁽³⁾	dB(A)	53
Compressor type		Scroll DC Inverter
Operating limits Winter/Summer		- 15°C / + 43°C
Net Weight	kg	43
Dimensions (WidthxDepthxHeight)	mm	795x290x610

LINKING SPECIFICATIONS BETWEEN INDOOR AND OUTDOOR UNITS

Power supply		
Power supply side		Outdoor
Power cable section	mm ²	3x1.5
Fuse am	A	8
Electrical connections Ind./Out.	mm ²	2x (4x1.5)

Linking pipes		
Max. length .	m	30
Max. height	m	10
Liquid pipe Diameter	Inches	2 x 1/4"
Suction pipe Diameter	Inches	2 x 3/8"

(1) Nominal heating capacity: international conditions 20°C/12°C damp - External air: 7°C/6°C damp. (2) Nominal cooling capacity: international conditions (Standards NF EN 255.2 / 814.2) - 27°C/19°C damp - External air: 35°C/24°C damp. (3) Overall acoustic pressure in dB(A) (1 m) under nominal conditions: outdoor unit in a free field over a reflecting plane - indoor unit: installed in an average sized room, (PV-0.5s reverberation).

Airwell

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