



DC INVERTER Range

Wall Splits Dakota WDI

Airwell
Air Conditioning

Never before has technology gone so far in optimising user comfort.

The **Dakota WDI** wall-mounted units combine subtle discretion and performance to provide maximum user pleasure. Elegant, modern and ultra-quiet (30-36 dB(A) for WDI7), the **Dakota WDI** blends harmoniously into all styles of interior décor. Its DC Inverter technology allied with the environmentally friendly R410A refrigerant fluid, guarantee optimal performance (Energy label "A" rating in Cooling mode), exceptional results (operation in Heating mode down to outdoor temperatures of -15°C) and perfect temperature control.

Designed to ensure a very high comfort level, the **Dakota WDI** is the ideal solution for all residential or tertiary applications.

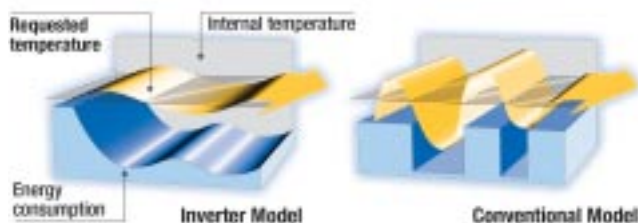
Energy		Air-conditioner		
Manufacturer	Airwell			
Outside unit	GC 9 DCI R410			
Inside unit	ST WDI 9 DCI			
More efficient				
A				
B				
C				
D				
E				
F				
G	<div style="text-align: center; font-size: 2em; font-weight: bold;">A</div>			
Less efficient				
Annual energy consumption kWh in cooling mode <small>(Actual consumption will depend on how the appliance is used and climate)</small>				
Cooling output			kW	2,5
Energy efficiency ratio <small>Full load (the higher the better)</small>			3,38	
Type			Cooling only Cooling + Heating ←	
			Air cooled ← Water cooled	
Heat output	kW			
Heating performance <small>A: higher G: lower</small>				
Noise <small>(dB(A) re 1 pW)</small>	54			
Further information is contained in product brochures				
<small>Norm EN 814 Air-conditioner Energy Label Directive 2002/31/EC</small>				



The **Dakota WDI**, DCI wall-mounted range, is available with an environmentally friendly refrigerant fluid: "R410A". As well as providing high energy efficiency, this fluid is recyclable and does not harm the ozone layer. Its high volumetric mass and considerable energy efficiency offer high coefficients of performance and, consequently significant energy savings.

Inverter technology is:

- A DC Inverter type variable capacity compressor allowing for improved regulation and temperature control.
- 30% energy savings.
- Ultra-quiet operation.



Evaporator

A major reduction in noise levels, even at high speed, has been achieved by the carefully-designed evaporator curve, combined with the turbine (tangential and aerodynamically designed) dimensions.



■ Dakota WDI Indoor units



WDI 7/9 DCI



WDI 12 DCI

■ DCI outdoor units

The thermo-stable polyester structure contributes to reducing noise levels and unit weight as well as extending the unit's useful life. The unit is coated High Density anti-corrosion powder paint for effective protection in operating conditions.

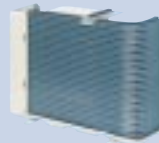


OU 7/9/12 DCI



❖ COMPRESSOR

The variable capacity DC Inverter rotary compressor provides a high output with increased sound insulation.



❖ CONDENSER

The hydrophilic "bluefin" treatment encourages condensates drainage and protects against corrosion whilst guaranteeing performance and extending service life.



❖ MOTOR FAN

This high-efficiency variable capacity DC Inverter motor fan unit is designed to guarantee silent operation.



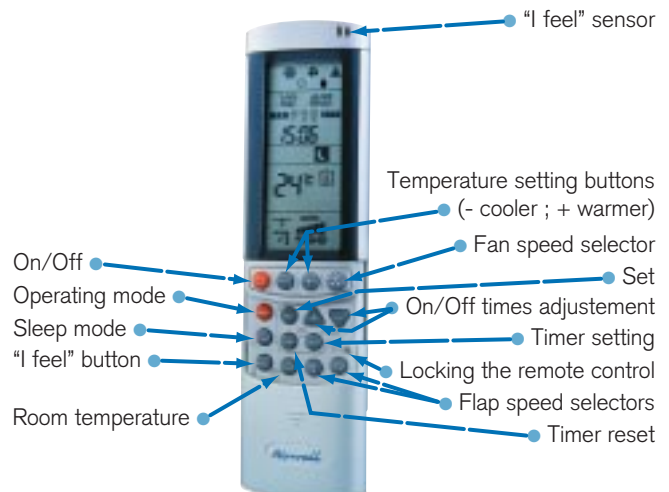
❖ FAN

The fan comprises 3 aerodynamic blades and has been designed for more precise balance, improved air exchange and silent running.

Compact, modern and silent...all these features have a name: Dakota WDI

■ RC7 Infrared Remote Control

With its compact size and carefully designed ergonomics, the Airwell infrared remote control offers excellent user comfort. It allows the user to programme numerous sophisticated functions such as: selection of 3 different fan/ventilation speeds, flap sweep function, night time slow running, timer settings, energy savings function, "I feel" function... By simply pressing a single key, the desired temperature can be very accurately obtained and controlled.



INVERTER RANGE



Dakota WDI DCI Series

WDI 7

WDI 9

WDI 12

Heating capacity⁽¹⁾

kW

2,5

2,80

3,60

Power input

kW

0,75

0,82

1,05

COP/ Energy Label

3,33 / C

3,41/B

3,43 / B

Cooling Capacity⁽²⁾

kW

2,00

2,50

3,50

Power input

kW

0,58

0,75

1,03

EER/ Energy Label

3,44 / A

3,38 / A

3,39 / A

Indoor unit

ST WDI 7

ST WDI 9

ST WDI 12

Airflow (LS/ NS/ HS)

m³/h

300/350/400

270/350/420

350/450/550

Sound power level (LS /NS/ HS)

dB(A)

43/46/49

45/48/52

42/46/52

Acoustic pressure to 1m (LS /NS/ HS)⁽³⁾

dB(A)

30/33/36

32/35/39

29/33/39

Weight

kg

7

7

8

Dimensions (WxDxH)

mm

680x250x200

680x250x200

840x250x200

Outdoor unit

OU 7 DCI

OU 9 DCI

OU 12 DCI

Fuse am

m³/h

12

12

15

Acoustic pressure to 1 m

dB(A)

55

54

55

Compressor type

Rotary

Rotary

Rotary

Operating limits Winter/Summer

-15°C + 46°C

Weight

kg

35

36

37

Dimensions (WxDxH)

mm

760x545x245

760x545x245

760x545x245

Linking specifications between indoor and outdoor units

Linking pipes (not supplied)

Power supply side

Indoor

Indoor

Indoor

Power cable section

mm²

3x1

3x1

3x1,5

Liquid pipe/suction pipe diameter

inchs

1/4" - 3/8"

1/4" - 3/8"

1/4" - 3/8"

Max. length / Max. height

m

15 / 10

15 / 10

15 / 10

Electrical connections

mm²

4x1

4x1

5x1,5

(1) Nominal heating capacity: International conditions: 20°C/12°C (wet bulb) – outside air temperature 7°C/6°C (wet bulb) (Standards NF EN 255.2 – NF EN 814.2) (2) Nominal cooling capacity: International conditions: 27°C/19°C (wet bulb) – outside air temperature 35°C/24°C (wet bulb) (Standards NF EN 255.2 – NF EN 814.2) (3) Acoustic levels: Global acoustic pressure in dBa (1 m comfort range), under nominal conditions: outdoor unit in an open area against a reflective background – Indoor unit: installation in an average sized room (PV – 0.5 s reverberation).

Airwell



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