

DC INVERTER Range

**Multisplits
DUO-TRIO-QUATTRO DCI**

Airwell
Air Conditioning

INVERTER RANGE

Flexibility and user comfort, reaching set temperature levels rapidly, silent running, optimal stable ambient temperature and energy savings are all features that make the Airwell DC Inverter multisplits range an exceptional offering.

As a genuine compendium of technologies, the Airwell DCI **DUO-TRIO-QUATTRO** appliances have been designed to provide a very high level of comfort for users as well as ensuring extremely easy integration for installers.

With the capability of providing independent air conditioning in two, three or four rooms, the Multi Inverter range benefits from Airwell's renowned expertise and the very latest technological advances.

The DC Inverter range delivers optimal capacity and exceptional performance. This range, with capacities varying from 5 to 8 kW, allows for mixing and matching between the four types on FLORIDA, SX, K and BS DCI indoor units.

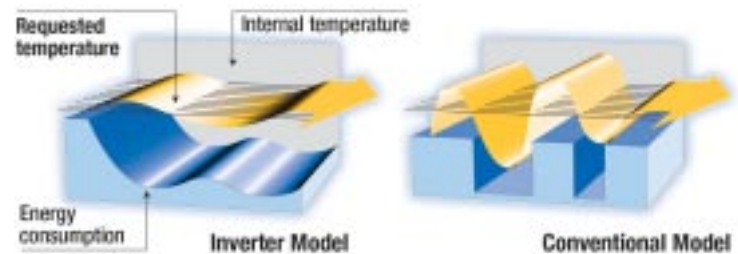


The multisplits range is available with the ecologically friendly fluid **R410A**. This provides high energy efficiency, while preserving the ozone layer, and is easily recyclable. Its high density and high energy efficiency make for high performance coefficients, thereby providing significant energy savings.

Energy		Air-conditioner
Manufacturer		<i>Airwell</i>
Outside unit		DUO 50 DCI
Inside unit		
More efficient		A
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	5
Energy efficiency ratio <small>Full load (the higher the better)</small>		3,4
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>		52
Further information is contained in product brochures		
<small>Norm EN 814 Air-conditioner Energy Label Directive 2002/31/EC</small>		

■ 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 DC INVERTER multisplits range is designed to operate continuously whilst modulating its capacity to the room temperature.

Precise detection of cooling or heating requirements enables frequent capacity changes to be avoided and guarantees efficient and economic operation.

■ Silent running

The TRIO-QUATTRO DCI units use a Twin Rotary compressor.

Compared with traditional single cylinder design compressors, the Twin Rotary compressor provides a significant reduction in noise levels and vibrations during operation, thereby guaranteeing silent running.

■ Rapidly reaching the set temperature

The compressor's variable rotational speed provides for optimal, rapid and efficient capacity modulation, guaranteeing more precise ambient temperature control than traditional air conditioners.

DUO-TRIO-QUATTRO outdoors units

The capacity modulation provided by the DC Inverter compressor equipping the Multi range allows for very varied mixing and matching of appliance sizes from model 9 (15 m²) to model 18 (60m²). This enables the installation to be tailored perfectly to all configurations, whether it is for air conditioning several rooms of the same size or rooms of different sizes.

The Airwell DC INVERTER multisplits range offers a broad operating range to adapt to all climatic conditions, in particular for heating in winter (down to outdoors temperatures of -15°C).

In addition, thanks to their single phase electrical supply, these air conditioning systems are ideal for winter heating and summer cooling for apartments or individual houses with a surface area of up to 100 m².

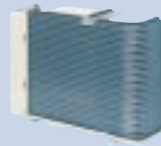


DUO 50 DCI



❖ COMPRESSOR

A variable power DC INVERTER rotary 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.

FOR 2 ROOMS

FOR 3 ROOMS

FOR 4 ROOMS

(Possibility of matching)

Compatible indoor units



FLO 9/12 DCI



FLO 18 DCI

FILTRATION

Because we spend 22 out of every 24 hours in enclosed environments, we need to take great care over the quality of the indoors atmosphere. Air treatment represents one of the major functions of the Florida DCI wall-mounted splits and exceptional air quality is achieved by the combination of several filters:

- Standard re-usable pre-filter.
- Active charcoal filter to neutralise odours.
- Electrostatic filter to catch the smallest particles contained in the ambient air (dust, pollen, mites, tobacco...).

Standard pre-filter



Active charcoal filter



Active electrostatic filter



LCD DISPLAY



The wall-mounted Florida DCI appliances also incorporate a simple and user-friendly LCD display to view the main operating information.



SX 9/12 DCI

ENHANCEMENTS WITH DOUBLE AUTOMATIC SWEEPING

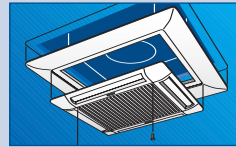
SX DCI air conditioners have 2 motorised blowing flaps, one for the VERTICAL sweeping (top to bottom) function, and the other for HORIZONTAL sweeping (left to right) function. The treated air is therefore distributed completely uniformly throughout the room.



The K cassettes are extremely easy to integrate, thanks to their standard formats (600x600) and their low height (287mm). As well as being equipped with a clean air intake, they can also be configured to provide air conditioning in two adjoining rooms. Finally, K cassettes are easy to install and maintain with easy access to all components after simple removal of the fascia panel.



K 9/12/18 DCI

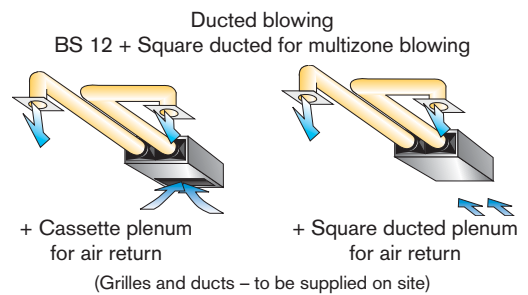


The ceiling frame, available as an accessory, creates a large opening in suspended ceilings to make installation and connections (electrical and refrigeration) easier.

With their adapted blowing plenums, it is possible to connect blowing ducts for multi-zone air conditioning.



BS 12 DCI



INFRARED RECEIVER FOR REMOTE CONTROL



INFRARED SIGNAL RECEIVER

- COOL: Cooling mode light
- HEAT: Heating mode light
- OPER: Lights up when the unit is in operation. A flashing light confirms receipt of an infrared signal.
- STBY: Standby light. Lights up when the unit is connected and ready to receive instructions from the remote control.
- MODE: Emergency control. One press on this key enables the cooling or heating functions to be selected in the event of the remote control being unavailable.

In addition to their sleek design, proven technology and component reliability, the indoors units compatible with the Airwell Multi Inverter range offer extremely low noise levels and unequalled air treatment quality allowing for discreet integration in all environments.

RC4 remote control (Florida DCI / K DCI) and control panel (SX DCI)

Automatic Cooling / Heating regulation.

- 3 ventilation (FAN) speeds.
- Automatic ventilation.
- I FEEL function.
- Night running.
- Dual treated air sweeping: horizontal and vertical.
- Dehumidification.
- 2 programming ranges: week & weekend.



Indoors units combinations

Indoors units combinations	Indoors units capacity (kW)								Power input (W)			COP/ EER	Energy class
	Mode	Room A	Room B	Room C	Room D	Nominal capacity	Minimum capacity	Maximum capacity	Nominal capacity	Minimum capacity	Maximum capacity		
DUO 50 DCI													
9+9	Heating			3,1	3,1	6,2	1,3	7,1	1670	320	1960	3,71	A
	Cooling			2,5	2,5	5,0	1,4	6,0	1470	410	2100	3,40	A
9+12	Heating			3,1	3,5	6,6	1,3	7,4	1760	320	2020	3,75	A
	Cooling			2,5	3	5,5	1,4	6,2	1850	410	2130	2,97	C
12+12	Heating			3,5	3,5	6,9	1,3	7,8	1970	320	2050	3,50	B
	Cooling			3	3	6,0	1,4	6,5	2040	410	2160	2,94	C
TRIO DCI													
9	Heating				3,40	3,40	0,95	4,00	685	500	897	4,96	A
	Cooling				2,50	2,50	1,30	3,70	685	500	1,025	3,65	A
12	Heating				4,30	4,30	0,95	5,20	1,003	485	1,32	4,29	A
	Cooling				3,50	3,50	1,30	4,40	968	500	1,223	3,62	A
18	Heating				6,20	6,20	1,11	7,50	1,673	549	2,131	3,71	A
	Cooling				5,00	5,00	1,49	5,93	1,393	566	1,656	3,59	A
9+9	Heating			3,60	3,60	7,20	1,43	9,10	1,883	649	2,636	3,82	A
	Cooling			2,54	2,54	5,08	1,86	6,56	1,498	683	1,856	3,39	A
9+12	Heating			3,26	4,34	7,60	1,43	9,50	2,009	649	2,711	3,78	A
	Cooling			2,57	3,42	5,99	1,86	7,73	1,783	683	2,541	3,36	A
9+18	Heating			3,00	6,00	9,00	1,43	10,10	2,451	622	2,737	3,67	A
	Cooling			2,44	4,88	7,32	1,86	9,00	2,203	659	3,046	3,32	A
12+12	Heating			4,00	4,00	8,00	1,43	9,80	2,135	649	2,711	3,75	A
	Cooling			3,46	3,46	6,92	1,86	9,00	2,075	683	2,246	3,33	A
12+18	Heating			3,60	5,40	9,00	1,43	10,50	2,451	622	2,871	3,67	A
	Cooling			2,93	4,39	7,32	1,86	9,00	2,203	659	3,055	3,32	A
9+9+9	Heating	3,00	3,00	3,00	9,00	2,06	10,99	2,37	804	3,013	3,80	A	
	Cooling	2,40	2,40	2,40	7,20	2,69	8,98	2,24	949	3,049	3,21	A	
9+9+12	Heating	2,70	2,70	3,60	9,00	2,06	11,00	2,37	804	2,966	3,80	A	
	Cooling	2,20	2,20	2,93	7,33	2,69	9,00	2,281	949	3,157	3,21	A	
9+9+18	Heating	2,25	2,25	4,50	9,00	2,06	11,00	2,37	773	2,826	3,80	A	
	Cooling	1,83	1,83	3,66	7,32	2,69	9,00	2,278	962	3,097	3,21	A	
9+12+12	Heating	2,45	3,27	3,27	8,99	2,06	11,00	2,367	804	2,938	3,80	A	
	Cooling	1,99	2,66	2,66	7,31	2,69	9,00	2,275	949	3,097	3,21	A	
9+12+18	Heating	2,07	2,76	4,14	8,98	2,14	11,00	2,365	773	2,752	3,80	A	
	Cooling	1,69	2,25	3,37	7,31	2,69	9,00	2,275	962	3,061	3,21	A	
12+12+12	Heating	3,00	3,00	3,00	9,00	2,06	11,00	2,37	804	2,845	3,80	A	
	Cooling	2,44	2,44	2,44	7,32	2,69	9,00	2,278	990	3,085	3,21	A	
12+12+18	Heating	2,57	2,57	3,85	8,99	2,14	11,00	2,367	773	2,696	3,80	A	
	Cooling	2,09	2,09	3,13	7,30	2,69	9,00	2,272	962	3,086	3,21	A	
QUATTRO DCI													
9	Heating				3,40	3,40	0,95	4,00	685	400	859	4,96	A
	Cooling				2,50	2,50	1,40	3,70	685	500	1,025	3,65	A
12	Heating				4,30	4,30	0,95	5,20	946	388	1,207	4,54	A
	Cooling				3,50	3,50	1,40	4,40	968	500	1,223	3,62	A
18	Heating				6,20	6,20	1,11	7,50	1,497	455	1,875	4,14	A
	Cooling				5,00	5,00	1,60	5,60	1,393	570	1,563	3,59	A
9+9	Heating			3,64	3,64	7,28	1,43	8,63	1,707	539	2,172	4,26	A
	Cooling			2,54	2,54	5,08	2,00	6,20	1,453	689	1,742	3,49	A
9+12	Heating			3,29	4,39	7,68	1,43	9,01	1,838	539	2,235	4,18	A
	Cooling			2,56	3,42	5,98	2,00	7,30	1,722	689	2,385	3,47	A
9+18	Heating			3,03	6,06	9,10	1,43	9,58	2,261	516	2,255	4,02	A
	Cooling			2,54	5,08	7,61	2,00	8,50	2,21	665	2,858	3,45	A
12+12	Heating			4,04	4,04	8,09	1,43	9,29	1,92	539	2,235	4,21	A
	Cooling			3,45	3,45	6,90	2,10	8,80	1,998	689	2,921	3,46	A
12+18	Heating			3,80	5,70	9,50	1,43	9,96	2,317	516	2,366	4,10	A
	Cooling			3,15	4,72	7,87	2,10	8,80	2,285	665	2,876	3,44	A
9+9+9	Heating	3,03	3,03	3,03	9,10	2,06	11,00	2,151	671	2,621	4,23	A	
	Cooling	2,40	2,40	2,40	7,19	2,90	9,00	2,112	915	2,938	3,40	A	
9+9+12	Heating	2,85	2,85	3,80	9,50	2,06	11,00	2,231	671	2,891	4,26	A	
	Cooling	2,36	2,36	3,15	7,87	2,90	9,00	2,445	915	2,899	3,22	A	
9+9+18	Heating	2,38	2,38	4,75	9,50	2,06	11,00	2,072	646	2,883	4,59	A	
	Cooling	2,00	2,00	4,01	8,01	2,90	9,00	2,466	928	2,851	3,25	A	
9+12+12	Heating	2,59	3,45	3,45	9,48	2,06	11,00	2,171	671	2,874	4,37	A	
	Cooling	2,17	2,90	2,90	7,97	2,90	9,00	2,445	915	2,851	3,26	A	
9+12+18	Heating	2,19	2,92	4,38	9,48	2,14	11,00	2,012	646	2,731	4,71	A	
	Cooling	1,87	2,50	3,74	8,11	2,90	9,00	2,476	928	2,821	3,28	A	
12+12+12	Heating	3,16	3,16	3,16	9,49	2,06	11,00	2,151	671	2,857	4,41	A	
	Cooling	2,69	2,69	2,69	8,07	2,90	9,00	2,372	955	2,841	3,40	A	
12+12+18	Heating	2,71	2,71	4,06	9,48	2,14	11,00	1,993	646	2,671	4,76	A	
	Cooling	2,31	2,31	3,47	8,10	2,90	9,00	2,372	928	2,802	3,42	A	
9+9+9+9	Heating	2,38	2,38	2,38	9,50	2,69	10,97	2,38	657	2,935	3,99	A	
	Cooling	2,00	2,00	2,00	8,00	3,70	9,17	2,49	1,091	2,937	3,21	A	
9+9+9+12	Heating	2,19	2,19	2,91	9,47	2,69	11,00	2,355	657	2,9	4,02	A	
	Cooling	1,87	1,87	1,87	2,49	8,10	3,70	9,20	2,524	1,091	2,915	3,21	A
9+9+9+18	Heating	1,90	1,90	1,90	3,80	9,50	2,77	11,00	2,294	646	2,779	4,14	A
	Cooling	1,62	1,62	1,62	3,25	8,12	3,70	9,20	2,445	1,064	2,882	3,32	A
9+9+12+12	Heating	2,03	2,03	2,71	2,71	9,49	2,69	11,00	2,306	657	2,857	4,12	A
	Cooling	1,74	1,74	2,32	2,32	8,11	3,70	9,20	2,513	1,091	2,882	3,23	A
9+9+12+18	Heating	1,78	1,78	2,37	3,56	9,49	2,77	11,00	2,195	646	2,762	4,32	A
	Cooling	1,52	1,52	2,03	3,05	8,12	3,70	9,20	2,41	1,064	2,849	3,37	A
9+12+12+12	Heating	1,90	2,53	2,53	2,53	9,48	2,69	11,00	2,269	657	2,822	4,18	A
	Cooling	1,62	2,16	2,16	2,16	8,11	3,70	9,20	2,501	1,091	2,871	3,24	A
9+12+12+18	Heating	1,67	2,23	2,23	3,35	9,48	2,77	11,00	2,195	646	2,903	4,32	A
	Cooling	1,43	1,91	1,91	2,87	8,12	3,70	9,20	2,41	1,064	2,89	3,37	A
12+12+12+12	Heating	2,38	2,38	2,38	2,38	9,50	2,69	11,00	2,38	646	2,796	3,99	A
	Cooling	2,03	2,03	2,03	2,03	8,12	3,70	9,20	2,49	1,091	2,838	3,26	A



OU DUO 50 DCI



OU TRIO 72 DCI



OU QUATTRO 80 DCI



INVERTER RANGE



DUO-TRIO-QUATTRO DC Inverter

DUO 50 DCI

TRIO-72 DCI

QUATTRO-80 DCI

Cooling Capacity ⁽²⁾	kW	5 (1.2-6.48)	7.2 (1.3-9)	8 (1.4-9.2)
Power input	kW	1.47 (0.42-2.16)	2.24 (0.5-3)	2.5 (0.5-3)
EER/ Energy Label		3.4 / A	3.21 / A	3.20 / A
Running current	A	6.7	9.7	10.8
Start current	A	10.5	10	11
Heating capacity ⁽¹⁾	kW	6.2 (0.9-7.7)	9 (0.95-11)	9.5 (0.9-11)
Power input	kW	1.67 (0.37-2)	2.37 (0.5-3)	2.38 (0.4-3)
COP/ Energy Label		3.71 / A	3.8/A	4 / A
Running current	A	7.7	9.8	10.3
Start current	A	10.5	10	11

Outdoor units

Airflow	m ³ /h	2160	3200	3200
Motor output	W	40	90	90
Acoustic pressure to 1m ⁽³⁾	dB(A)	52 / 53	53 / 54	53 / 54
Noise level power	dB(A)	62 / 63	63 / 64	63 / 64
Refrigerant control	Electronic expansion valve			
Defrost method	Reverse cycle			
Compressor type		DC Inverter Scroll	DC Inverter Rotary	DC Inverter Rotary
Net Weight	kg	43	69	70
Dimensions (WidthxDepthxHeight)	mm	795x290x610	950x835x340	950x835x340

Linking specifications between indoor and outdoor units

Power supply

Power supply side		Outdoor	Outdoor	Outdoor
Power cable section	mm ²	3x2.5	3x2.5	3x2.5
Fuse am	A	10	20	20
Electrical connections Ind./Out.	mm ²	2x (4x1.5)	3x (4x1.5)	4x (4x1.5)

Linking pipes

Fluid charge	g	1500	3200	3400
Fresh air	g	no	no	no
Max. lenght between indoor units	m	25	25	25
Max. lenght between ind. and outd. units	m	30	50	70
Max. height between indoor units	m	5	15	15
Max. height between ind. and outd. units	m	10	15	15
Liquid pipe diameter	Inches	2 x 1/4"	3 x 1/4"	4 x 1/4"
Suction pipe diameter	Inches	2 x 3/8"	2 x 3/8" + 1/2	3 x 3/8" + 1/2

(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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