



• APPLICATIONS

- Telecoms Installations
- ISP's / ASP's
- Computer Rooms
- Switching / Relay Stations
- Laboratories

AlphaCool ^{PLUS}

• KEY FEATURES

- 2 downflow models offering cooling up to 136kW
- Significantly reduced life-cycle operating costs
- Exceptional sensible cooling capacity per unit footprint (52 kW/m²)
- Direct drive fans giving energy savings of up to 20% over conventional belt drives
- Enhanced surface area coil optimises air flow distribution & heat transfer
- Virtually 'Service Free'
- Full frontal access to filters, valves and all other major components

NEW

**AlphaCool
PLUS**

**RANGE
AVAILABLE NOW**



The **AlphaCool PLUS** is the latest addition to the AlphaCool Range of chilled water units. Designed specifically to provide specialist IT environments with maximum cooling capabilities and precise environmental control tolerances while reducing footprint and service downtime to an absolute minimum.

The new **AlphaCool PLUS** encompasses 2 models that offer increased cooling capacities up to 136kW, both units incorporating a dual housing construction that offers significant advantages in environments where raised floors are installed. The dual housing construction optimises interior space by utilising an enhanced surface area coil. This coil maximises air flow and heat transfer thereby significantly increasing total cooling capacity.

The units are supplied with a front directional fan discharge as standard with rear discharge available to suit individual requirements. Other standard features include voltage controllers to adjust fan speed, detachable filter box for easy access and backward curved centrifugal fan assemblies that can be removed from the unit without the need to remove any other major components.

The advanced microprocessor controller fitted as standard features RS232 communication port, networking capabilities and BMS connectivity – offering maximum flexibility in internet, ASP and telecommunication applications. The LCD display provides audible and visual monitoring of the entire unit operation.

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All product specifications are subject to change without prior notice. 901070BRE11/01

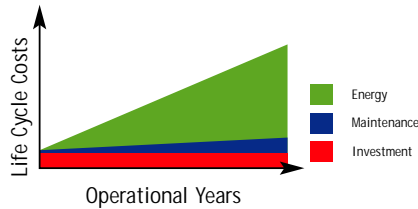


air conditioning for every environment

	Total Cooling Duty kW*	Sensible Cooling Duty kW*	Nominal Airflow per unit m ³ /s	Unit Dimensions HxWxD(mm)**	Operating Weight (kg) includes floorstand and fan housing	Noise dB (A) (sound pressure @ 3m)
DF100CW	111	102	6.9	2140x2450x800	665	65.4
DF125CW	136	124	8.3	2400x2700x900	835	63.9

* = Gross cooling duty based on 24°C/45% RH and water 7/12°C

** = With filter box removed, height becomes 1940 and 2200 respectively



REDUCED LIFETIME COSTS

- Significantly reduced installation time
- Virtually service free – no belts to change
- Reduced energy consumption – compared to conventional cabinet based belt drives
- Savings of up to £10,000 over 10 years are achievable

STANDARD FEATURES & BENEFITS



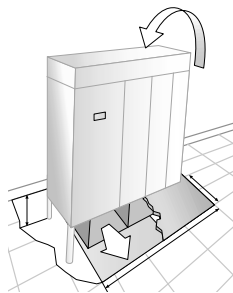
The Direct Drive Fans

- Backward curved centrifugal fans are highly efficient, easy to install and extremely service friendly
- Being direct drive there are no belts to adjust or replace, therefore belt misalignment problems are non-existent and airflows are free of belt particles
- Any inaccurate external resistance calculations can be quickly and easily adjusted by steps on the microprocessor controller
- Fan redundancy can be written into control strategies – ensuring uninterrupted cooling and air movement, with no risk of fan overload
- The factory assembled fans are dynamically balanced to produce low levels of vibration and are IP54 rated



The Chilled Water Coil

- Slab coil alignment permits trouble-free access to all major components eliminating lengthy maintenance downtime
- Unique fin pattern and secondary drip tray design facilitates even airflow distribution and optimises performance to eliminate moisture carry-over



The Cabinet

- The direct drive fans are mounted into the discrete under floor stand of the dual housing unit offering a plethora of key benefits, including: -
 - reducing footprint to an absolute minimum
 - reducing overall unit height; enabling the effective use of large surface area coils
 - elimination of the air resistance of conventional turning vanes
 - optimising the applications flexibility with front and rear discharge
- Deep pleated G4 filters, give high performance with low airside pressure drops
- Full frontal access to filters, valves and all other major components simplifies installation and service functions.

OPTIONAL FEATURES

- Humidification
- Electric heating
- Fan redundancy
- Floor tile mounting kit reduces raised floor installation time, therefore minimising cost
- Constant air volume system
- Top pipework connections
- 2-port chilled water valve
- ModBus/Jbus BMS interface

For further data on all of the above models please refer to the Technical Manual.

