

CFAC
SERIES

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High Density Cooling Solution for Large Scale Data Center

CITEC CRAH system is a high efficient chilled water cooling solution designed to cater for high density cooling demand in large size data center application.

CFAC is designed with a large air discharge area and deliver the cold air directly to the cold aisle with shorten air path, improving the cooling system performance.

With flooded aisle concept, uniform air flow along the cold aisle can be achieved and cooling can be optimized to taller and denser racks.

Without the need of a raised floor system, initial investment and operating cost can be reduced besides eliminating the concern of ceiling height limitations.

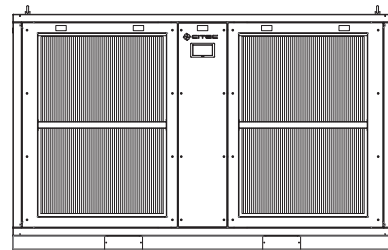
PRODUCT FEATURES

- High efficiency cooling solution with low PUE
- Front access for main components such as Control panel, EC fan and Filter for easy service and maintenance
- Enhanced data center security
- Modular and Stackable system which minimize footprint and maximize redundancy
- Customizable according to requirements

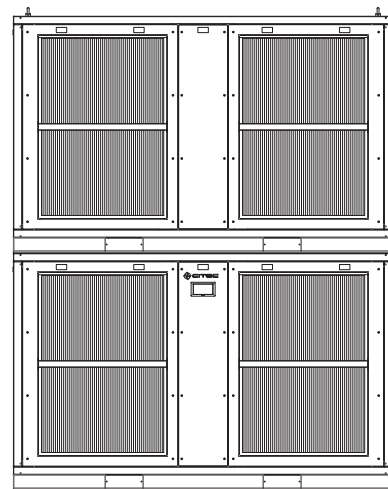


Configurable through modularity

Citec CFAC modular and stackable design allow various configuration to fit various site condition and requirement. Allow optimal solution for maximum capacity per foot print / maximum reliability through redundancy.



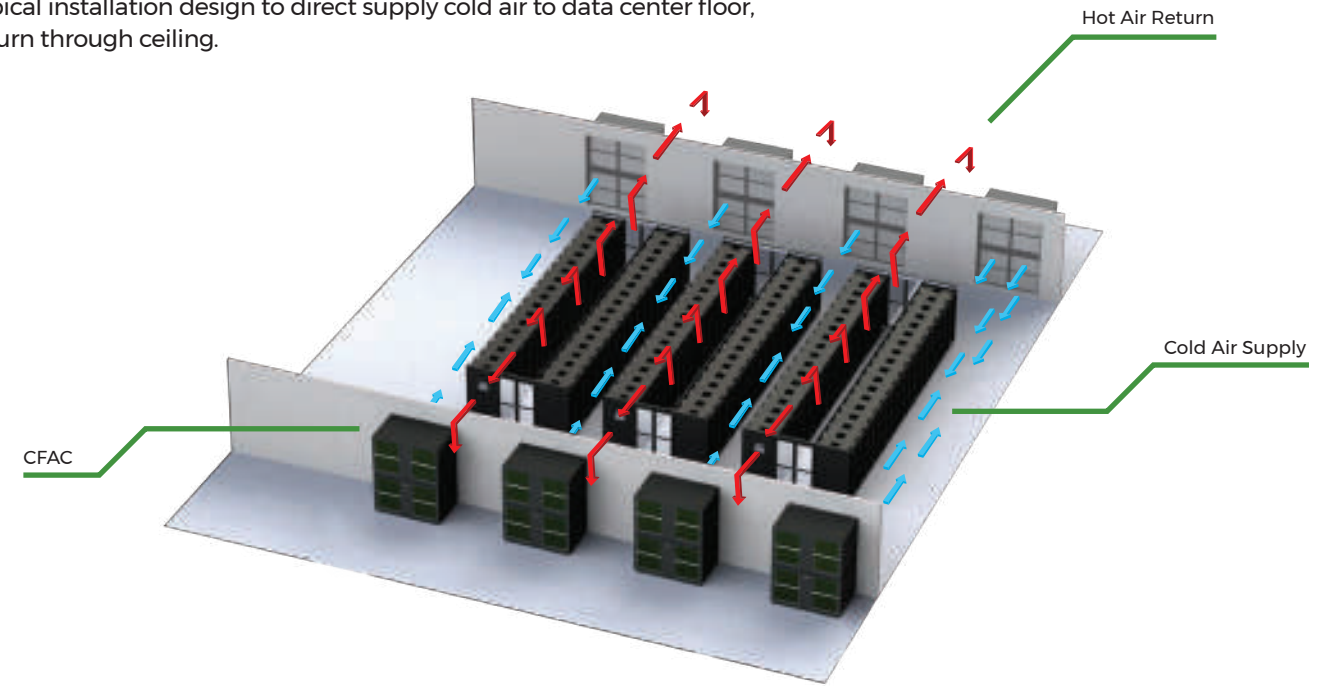
CFAC100CEH



CFAC200CEH with 200kW /100kW N+1 redundancy

Typical Installation

Typical installation design to direct supply cold air to data center floor, return through ceiling.



Technical Specification

UNIT MODEL (CFAC xxx)		100 CEH	200 CEH
Gross Total Capacity	kW	108.64	217.27
Gross Sensible Capacity	kW	108.64	217.27
S.H.R.		1.00	1.00
GENERAL DATA		100 CEH	200 CEH
Nominal Air Flow	m ³ /s	5.5	11.0
No. of Fans		2	4
Sound Level	dB(A)	73	76
CHILLED WATER		100 CEH	200 CEH
Nominal Water Flow Rate	l/s	2.52	5.04
Water Pressure Drop	kPa	34.5	43
AIR FILTER		100 CEH	200 CEH
Type		Washable	Washable
Rating		G4, MERV8	G4, MERV8
UNIT PIPING CONNECTION		100 CEH	200 CEH
Water In/Out	mm	54	67
Drain	mm	22	22
UNIT DIMENSION & WEIGHT		100 CEH	200 CEH
Length	mm	2400	2400
Depth	mm	1550	1550
Height	mm	1500	3000
Gross Weight	kg	700	1400

Notes:

1. Cooling capacity is based on return air condition 35°C, 25.4%RH, Chilled Water in/out based on 12/22°C, 400V/3ph+N/50Hz power supply, 50Pa ESP.
2. Height shown is inclusive of base frame.
3. Sound level is measured at 1m in free field conditions at rated air flow.



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