



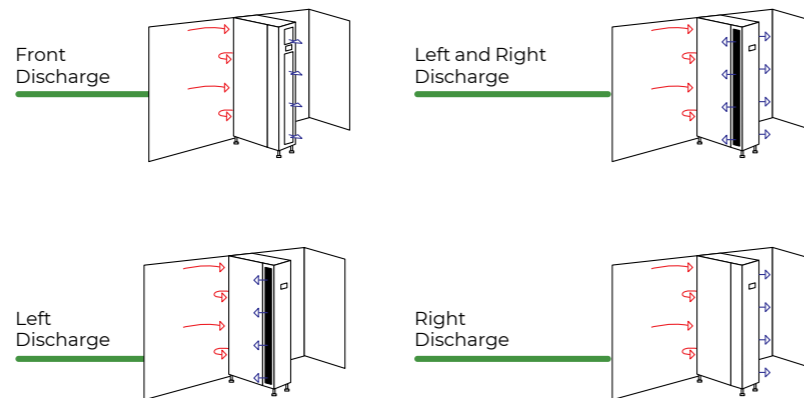
CNR
SERIES

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Technical Specification

CITEC CNR units are standalone precision air conditioner units designed for row-based high-density cooling applications with high return air temperatures; delivering high efficiency and optimum air distribution. These units come with great flexibility and compatibility, available for direct expansion and chilled water system, and are available in 300mm and 600mm width.



FEATURES & BENEFITS

- Compatible in modular arrangement with common racks available in the market.
- Equipped with CITEC Genius 5+ controller with BMS interface.
- Equipped with supply air temperature sensors for supply air control.
- Attractive touch screen color display with temperature and humidity trend graph feature, including component operational status.
- Unique coil arrangement to deliver maximum cooling performance within a compact footprint.
- Variable speed EC fan for airflow modulation to adapt to thermal load requirements.
- DC Inverter technology with variable capacity modulation between 30% to 100% to achieve precise control of temperature and humidity.
- Environmentally friendly R410A refrigerant.
- High accuracy Electronic Expansion Valve (EEV) for Direct Expansion system.
- The chilled water system comes with a two-way modulating valve for chilled water flow control.

OPTIONAL

- Side Discharge
- Humidifier and Heater
- Rack Depth of 1200mm
- BMS Connectivity
- Water Leak Detection System
- Dual Power Supply

Note : Side discharge option

Air Cooled & Chilled Water

UNIT MODEL (CNR XX E)		20A	25A	30A	40A	30C	50C
Gross Total Capacity	kW	23.76	26.95	32.17	40.97	30.42	52.15
Gross Sensible Capacity	kW	23.76	26.95	32.17	40.97	30.42	52.15
S.H.R.		1	1	1	1	1	1
GENERAL DATA		20A	25A	30A	40A	30C	50C
Nominal Air Flow	m ³ /s	1.32	1.32	2.10	2.10	1.50	2.66
No. of Fans		3	3	2	2	3	2
No. of Compressor		1	1	1	1	N/A	N/A
No. of Refrigerant Circuit		1	1	1	1	N/A	N/A
Sound Level	dBA	80	80	83	83	82	84
CONDENSER		20A	25A	30A	40A	30C	50C
Nominal Condenser		HEC274	HEC314	HEC374	HEC574	N/A	N/A
CHILLED WATER COIL		20A	25A	30A	40A	30C	50C
Nominal Water Flow Rate	l/s	N/A	N/A	N/A	N/A	1.45	2.49
Waterside Pressure Drop	kPa	N/A	N/A	N/A	N/A	63.7	75.7
HEATER (OPTION) & HUMIDIFIER (OPTION)		20A	25A	30A	40A	30C	50C
Nominal Heater Capacity	kW	4	4	6	6	4	6
No. of Heater Step		1	1	1	1	1	1
Nominal Humidifier Capacity	kg/hr	1.5	1.5	1.5	1.5	1.5	1.5
UNIT DIMENSION & WEIGHT		20A	25A	30A	40A	30C	50C
Length	mm	300	300	600	600	300	600
Depth	mm	1100	1100	1100	1100	1100	1100
Height	mm	2000	2000	2000	2000	2000	2000
Gross Weight	kg	223	225	316	320	205	310
Minimum Service Allowance	mm	600	600	725	725	600	725

Notes:

1. For Chilled Water unit, cooling capacity is based on 35°C, 23.8%RH, 10/15°C water temperature, 20Pa ESP.
2. For Direct Expansion unit, cooling capacity is based on 35°C, 23.8%RH, 45°C condensing temperature, R410a refrigerant, 20Pa ESP. Variable speed compressor is operating at 100rps.
3. Nominal air cooled condenser sizing is suggestion only based on 35°C ambient & nominal operating condition. Other sizes may be selected to suit requirement as necessary.
4. Sound level is based on 1.5m in free field conditions.
5. Service allowance is for front & rear of unit.

Due to our policy of continuous development and improvement, the specifications and data herein are subjected to change without notice. We must therefore reserve the right to supply equipment that may differ from that described and illustrated herein. All information, including illustrations, contained in this brochure, is believed to be accurate and reliable. Users, however, should independently evaluate the suitability of each product for their own application. CITEC makes no warranties as to accuracy or completeness of the information, and disclaims any liability regarding its use.



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