



CCMU
S E R I E S



CCMU SERIES

CITEC CCMU series are immaculately designed exclusively for ceiling-mounted application; an ideal solution for small spaces or constraint areas without consuming valuable floor space. CCMU series offers a direct expansion system and chilled water system that allows installation flexibility.

FEATURES & BENEFITS

- Slim and compact design to fit into ceiling space.
- Factory fitted supply and return duct connection flange for on-site ease of installation.
- Equipped with CITEC Genius 5+ controller with BMS interface.
- Variable speed EC fan for airflow modulation to adapt to thermal load requirements.
- High accuracy Electronic Expansion Valve (EEV) for Direct Expansion system.
- The chilled water system comes with a 2-way modulating valve for chilled water flow control.
- High-efficiency G4 MERV8 filter.

OPTIONAL

- Humidifier for humidification control.
- Attractive touch screen color display with temperature and humidity trend graph feature, including component operational status.
- Externally mounted display in room space for ease of access.
- BMS Connectivity
- Water Leak Detection System
- Dual Power Supply

CCMU
S E R I E S

Technical Specification

Air Cooled

UNIT MODEL (CCMU XX AE)		8	12	16
Gross Total Capacity	kW	10.34	12.30	16.77
Gross Sensible Capacity	kW	9.84	12.15	16.77
S.H.R		0.95	0.99	1.00

GENERAL DATA		8	12	16
Nominal Air Flow	m3/s	0.9	0.9	1.4
No. of fan(s)		1	1	2
No. of Compressor		1	1	1
No. of Refrigerant Circuit		1	1	1
Sound Level	dBA	57	57	58

CONDENSER		8	12	16
Nominal Condenser		HEC256	HEC256	HEC256

HEATER & HUMIDIFIER (OPTION)		8	12	16
Nominal Heater Capacity	kW	6	6	6
No. of Heater Step		1	1	1
Nominal Humidifier Capacity	kg/hr	3	3	3

UNIT DIMENSION & WEIGHT		8	12	16
Length	mm	980	980	1300
Depth	mm	1450	1450	1450
Height	mm	610	610	610
Gross Weight	kg	180	190	280
Minimum Threaded Rod Size		M20 / ¾"	M20 / ¾"	M24 / 1"

Chilled Water

UNIT MODEL (CCMU XX CE)		8	10	12	16	20
Gross Total Capacity	kW	9.31	11.05	13.33	16.90	20.36
Gross Sensible Capacity	kW	8.75	10.18	12.56	15.91	18.60
S.H.R.		0.94	0.92	0.94	0.94	0.91

GENERAL DATA		8	10	12	16	20
Nominal Air Flow	m3/s	0.9	0.9	1.1	1.6	1.6
No. of fan(s)		1	1	1	2	2
Sound Level	dBA	57	57	58	60	60

CHILLED WATER		8	10	12	16	20
Nominal Water Flow Rate	l/s	0.43	0.52	0.64	0.79	0.97
Water Pressure Drop	kPa	53.2	73.0	33.5	50.0	77.5

HEATER & HUMIDIFIER (OPTION)		8	10	12	16	20
Nominal Heater Capacity	kW	4	4	6	6	6
No. of Heater Step		1	1	1	1	1
Nominal Humidifier Capacity	kg/hr	3	3	3	3	3

UNIT DIMENSION & WEIGHT		8	10	12	16	20
Length	mm	780	780	980	1300	1300
Depth	mm	1450	1450	1450	1450	1450
Height	mm	610	610	610	610	610
Gross Weight	kg	120	130	170	230	250
Minimum Threaded Rod Size		M16 / ¾"	M16 / ¾"	M20 / ¾"	M24 / 1"	M24 / 1"

Notes:

1. Cooling capacity is based on 24°C, 45%RH, R407C refrigerant, 45°C condensing temperature, 380V/3ph+N/60Hz power supply, 150Pa ESP.
2. Sound level is measured at 1m in free field conditions.
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.

Notes:

1. Cooling capacity is based on 24°C, 45%RH, Chilled Water in/out based on 7/12°C, 380V/3ph+N/60Hz power supply, 150Pa ESP.
2. Sound level is measured at 1m in free field conditions.

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.



MALAYSIA OFFICE
CITEC International Sdn. Bhd.

No.1C (3rd Floor), Jalan Anggerik
Vanilla X31/X, Kota Kemuning,
Seksyen 31, 40460 Shah Alam,
Selangor, Malaysia.

T: +603 5124 5668
F: +603 5124 5669
E: enquiry@citecinternational.com

CHINA OFFICE
Guangzhou CITEC Engineering Co. Ltd.

Room 807, Time Square East,
No. 30, Tianhe North Road,
Tianhe District, Guangzhou, China.

T: +8620 3886 5819 / 5971
F: +8620 3886 9400
E: daichunhua@citecinternational-china.com

SINGAPORE OFFICE
CITEC International (SEA) Pte. Ltd.

16 New Industrial Road #04-05
Hudson Techno Centre Singapore
536204.

T: +65 - 6281 7748
F: +65 - 6281 4412
E: william@citecinternational.com.sg

HONG KONG OFFICE
CITEC International Ltd.

Flat B, 13/F, Hung Fuk Factory Building,
60 Hung To Road, Kwun Tong,
Kowloon, Hong Kong

T: +852 - 2827 0688
F: +852 - 2598 6203
E: enquiry@citecinternational.com

THAILAND OFFICE
CITEC International Group (Thailand) Co., Ltd.

89, Cosmo Office Park Building, 7th Floor,
Popular 3 Road, Ban Mai, Pak Kret,
Nonthaburi 11120, Thailand.

T: +66 - 2019 0548
F: +66 - 2019 0548
E: sales@citecinternational.co.th



www.citecinternational.com