

# marstair

A Division of **TEV** Ltd

# 17 Series CX(E)

# R407C cellar cooling



THE INNOVATIVE CX(E) CELLARATOR SPLIT SYSTEM IS DESIGNED TO HELP THE LICENSED TRADE MAINTAIN A COOLED ENVIRONMENT MORE EFFECTIVELY THAN EVER BEFORE.

With its revolutionary one piece molded body, impregnated with an anti-bacterial additive, the CX(E) is ideal for cellar cooling, food preparation areas and any areas requiring controlled temperatures down to 4°C.

The Cellarator provides constant temperature control with economy, ease of maintenance, flexible positioning, hygiene, safety and reliability.



The Cellarator is available in 2 versions:

- **CX ELECTROMECHANICAL**  
(this unit has optional digital temperature display)
- **CX(E)** with electronic control

Lightweight indoor units for easy installation:-

- CX(E) 30 - 18kg                      CX(E) 40 - 18kg
- CX(E) 50 - 20kg                      CX(E) 70 - 23kg

The unit dimensions are:-

- CX(E) 30 - 70 - 467mm x 845mm x 320mm

## SPECIFICATION

- New contemporary marble effect grey colour evaporator.
- Smaller tubes within the heat exchangers requires lower refrigerant charges
- Condensing units precharged with R407C
- Capacity range from 2.3 - 6.8kW
- Long pipe runs up to 80m (50m for CKC/DCU+ 20 & 30)
- The unit controls temperatures down to 4°C (dependent upon system match)
- De-ice stat is standard on CXE electronic units
- Antibacterial agent added to the chassis during the moulding process for complete mold protection throughout the material
- 6 fins-per-inch brewery specification heat exchanger
- Mounting brackets suitable for both wall and ceiling mounting and a waterproof power switch
- Direct access to the electrics at the front of the unit
- ABS drain tray incorporating standard 22mm OD fitting drain stub
- Easy to install field electric heater kit with factory fit option
- Outdoor condensing units incorporating a low pressure switch, HP switch and low ambient start as standard
- Optional ducted condensing units for where external installations are not feasible

# CKC System - Technical Information

## Approximate Guide to Cellar Sizing in m<sup>3</sup> at 27°C Ambient

ABOVE GROUND			BELOW GROUND		
CELLAR IN m <sup>3</sup>	8°C	12.7°C	CELLAR IN m <sup>3</sup>	8°C	12.7°C
CX(E) 30 + CKC / DCU+ 20	20	26	CX(E) 30 + CKC / DCU+ 20	25	31
CX(E) 40 + CKC / DCU+ 30	25	30	CX(E) 40 + CKC / DCU+ 30	31	39
CX(E) 50 + CKC / DCU+ 50	35	42	CX(E) 50 + CKC / DCU+ 50	46	57
CX(E) 70 + CKC / DCU+ 80	65	78	CX(E) 70 + CKC / DCU+ 80	80	99

## Guide to Cooling Duty at 8°C and 12.7°C

AMBIENT	CELLAR 8°C			CELLAR 12.7°C			SYSTEM CONNECTIONS	
	27°C						SUCTION	LIQUID
	TD (kW)	SD (kW)	SHR	TD (kW)	SD (kW)	SHR		
CX(E) 30 + CKC / DCU+ 20	2.27	1.70	0.75	2.80	2.10	0.75	1/2"	3/8"
CX(E) 40 + CKC / DCU+ 30	2.67	1.82	0.68	3.30	2.24	0.68	1/2"	3/8"
CX(E) 50 + CKC / DCU+ 50	3.73	2.46	0.66	4.60	3.02	0.66	1/2"	3/8"
CX(E) 70 + CKC / DCU+ 80	5.51	3.47	0.63	6.80	4.30	0.63	5/8"	1/2"

## Guide to CXE Low Temperature at 4°C and 27°C Ambient

AMBIENT	CELLAR 4°C			SYSTEM CONNECTIONS	
	27°C			SUCTION	LIQUID
	TD (kW)	SD (kW)	SHR		
CXE 40 + CKC / DCU+ 20	2.30	2.00	0.85	1/2"	3/8"
CXE 50 + CKC / DCU+ 40	3.50	2.80	0.80	1/2"	3/8"
CXE 70 + CKC / DCU+ 60	5.00	3.50	0.70	5/8"	3/8"



### CKC Outdoor Condensing Unit

CKC20 - 620mm x 900mm x 310mm - 46kg  
 CKC30 - 620mm x 900mm x 310mm - 48kg  
 CKC40 - 620mm x 900mm x 310mm - 53kg  
 CKC50 - 720mm x 1000mm x 310mm - 64kg  
 CKC60 - 720mm x 1000mm x 310mm - 65kg  
 CKC80 - 720mm x 1000mm x 310mm - 66kg

#### STANDARD FEATURES

Fan Speed Head Pressure Control, HP Switch Auto,  
 LP Switch Auto, Low Ambient Start, Three Minute Delay Timer,  
 Random Start, Contactor



### DCU+ Outdoor Condensing Unit

DCU+ 20 - 495mm x 1004mm x 490mm - 70kg  
 DCU+ 30 - 495mm x 1004mm x 490mm - 70kg  
 DCU+ 40 - 495mm x 1004mm x 490mm - 72kg  
 DCU+ 50 - 560mm x 1174mm x 490mm - 81kg  
 DCU+ 60 - 560mm x 1174mm x 490mm - 81kg  
 DCU+ 80 - 560mm x 1174mm x 490mm - 84kg

#### STANDARD FEATURES

Fan Speed Head Pressure Control, HP Switch Auto,  
 LP Switch Auto, Low Ambient Start, Three Minute Delay Timer,  
 Random Start, Contactor



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Process/Material Cooling • Close Control • Refrigeration