

# marstair

A Division of **TEV** Ltd

# 17 Series CX(E)A

# R410A cellar cooling



## COMPETITIVE RANGE OF R410A CELLAR COOLERS

BASED ON THE SAME HIGH SPECIFICATION  
INDOOR UNITS AS OUR SUCCESSFUL  
CX(E)/CKC RANGE



AVAILABLE IN 4 CAPACITIES  
2.3 TO 5.6KW

### FEATURES

- New contemporary marble effect grey colour evaporator.
- Smaller tubes within the heat exchangers requiring lower refrigerant charges
- Condensing units precharged with R410A
- LP Switch
- 3 minute timer

The Cellarator is available in 2 versions:

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

### SPECIFICATION

- Designed with a high impact resistant moulded polymer cabinet impregnated with an anti-bacterial additive to help prevent mold growth
- 6 fins-per-inch brewery specification heat exchanger
- Rounded corners, 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
- Up to 15m pipe runs
- Easy to install field fit electric heater kit with factory fit option
- Air throws to suit all applications

# Technical Information

## Guide to Cooling Duty

SYSTEM	DUTY @ 12.7°C 27°C AMBIENT			DUTY @ 12.7°C 35°C AMBIENT			DUTY @ 8°C 27°C AMBIENT			DUTY @ 8°C 35°C AMBIENT			INTERCONNECTING PIPEWORK	
	TD (kW)	SD (kW)	INPUT (kW)	TD (kW)	SD (kW)	INPUT (kW)	TD (kW)	SD (kW)	INPUT (kW)	TD (kW)	SD (kW)	INPUT (kW)	SUCTION	LIQUID/ EXPANSION
CX(E)A 30 / CKA 35	2.28	1.98	1.17	2.20	1.77	1.30	1.79	1.69	1.15	1.73	1.20	1.25	1/2"	1/4"
CX(E)A 50 / CKA 35	3.25	2.48	1.19	2.83	2.15	1.25	3.06	2.36	1.15	2.66	1.80	1.25	1/2"	1/4"
CX(E)A 50 / CKA 50	4.25	2.90	1.62	3.50	2.45	1.60	3.44	2.40	1.51	2.83	2.00	1.50	1/2"	1/4"
CX(E)A 70 / CKA 70	5.60	3.83	2.31	4.62	3.24	2.46	4.54	3.17	2.16	3.74	2.60	2.30	5/8"	3/8"

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

SYSTEM	ABOVE GROUND		BELOW GROUND	
	CELLAR IN m <sup>3</sup>		CELLAR IN m <sup>3</sup>	
	8°C	12.7°C	8°C	12.7°C
CX(E)A 30 / CKA 35	20	26	25	31
CX(E)A 50 / CKA 35	25	30	31	39
CX(E)A 50 / CKA 50	30	42	46	57
CX(E)A 70 / CKA 70	40	55	61	75

## Dimensions and Weights



CX(E)A



CXA



CKA Outdoor Unit

CX(E)A Indoor Unit

UNPACKED DIMENSIONS				
SYSTEM	HEIGHT mm	WIDTH mm	DEPTH mm	WEIGHT kg
CX(E)A 30	467	845	320	18
CX(E)A 50	467	845	320	20
CX(E)A 70	467	845	320	23

UNPACKED DIMENSIONS				
SYSTEM	HEIGHT mm	WIDTH mm	DEPTH mm	WEIGHT kg
CKA 35	552	760	256	34
CKA 50	552	760	256	42
CKA 70	660	860	307	56



FM 00671

EMS 91502



A Division of **TEV Ltd**

Marstair Division, TEV Limited, Armytage Road, Brighouse, West Yorkshire, HD6 1QF, England.

Tel: **+44 (0) 1484 405666** Fax: +44 (0) 870 606 4850 E: sales@marstair.com

[www.marstair.com](http://www.marstair.com)

A division of TEV Limited

**Part No: 06617670-10**

For full design information, reference should be made to the technical manual.  
We reserve the right to alter designs and specifications at any time without notification.

To view our Terms and Conditions visit [www.tevlimited.com/terms.html](http://www.tevlimited.com/terms.html)

Process/Material Cooling • Close Control • Refrigeration

# 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



FM 00671

EMS 91502



A Division of **TEV Ltd**

Marstair Division, TEV Limited, Armytage Road, Brighouse, West Yorkshire, HD6 1QF, England.

Tel: **+44 (0) 1484 405666** Fax: +44 (0) 870 606 4850 E: sales@marstair.com

[www.marstair.com](http://www.marstair.com)

A division of TEV Limited

**Part No: 06617591-13**

For full design information, reference should be made to the technical manual.  
 We reserve the right to alter designs and specifications at any time without notification.  
 To view our Terms and Conditions visit [www.tevlimited.com/terms.html](http://www.tevlimited.com/terms.html)

Process/Material Cooling • Close Control • Refrigeration