

# Cellarator CX

Split System Cellar Cooler



**CellarKing**

# Maintaining premium conditions

The innovative CX Cellarator split system cellar cooler from Marstair Ltd 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 is ideal for cellar cooling, food preparation areas and any areas requiring controlled temperatures down to 8°C.

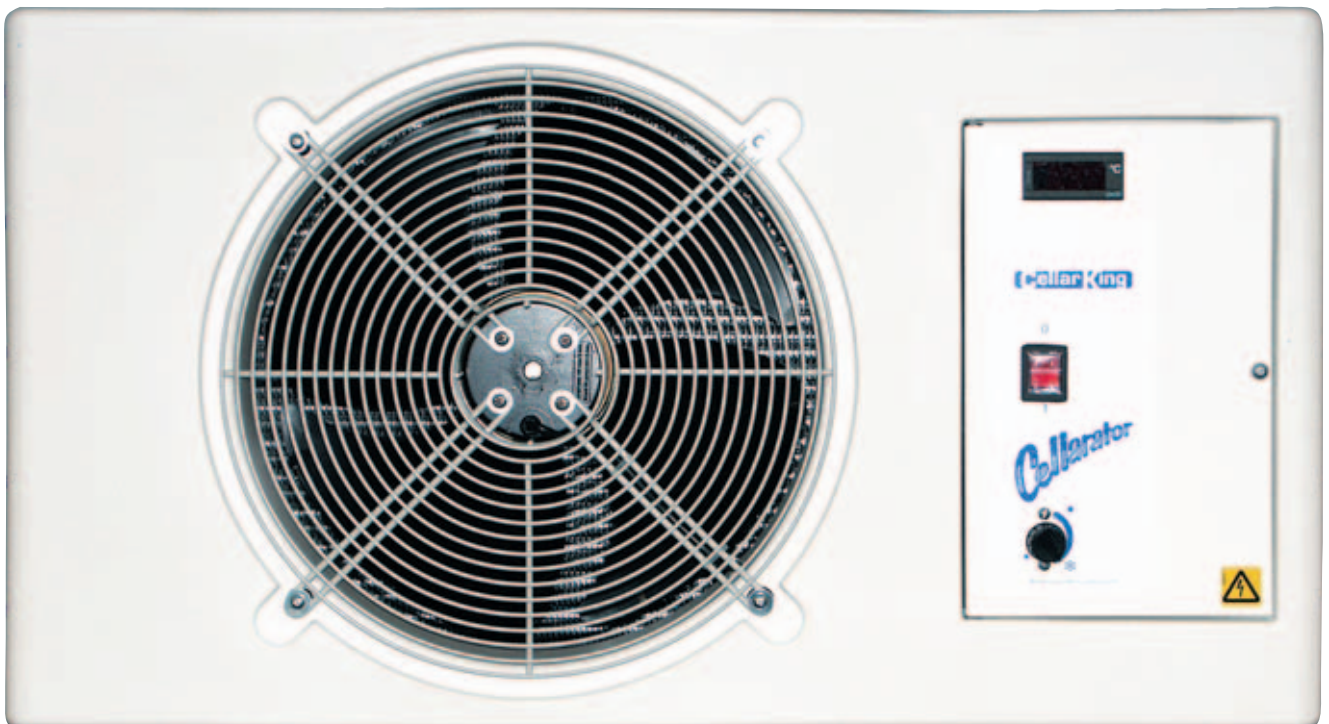
The Cellarator provides consistent temperature control with economy, ease of maintenance, flexible positioning, hygiene, safety and reliability.

These benefits are reflected in an impressive range of features offered by the CX Cellarator.

The Cellarator is available in two versions:

- **CX Electromechanical**
- **CX Electromechanical with optional digital temperature display**

- **Available in four capacities**  
from 2.8 - 6.8kW the indoor unit can be wall or ceiling mounted, saving valuable cellar floor space.
- **Long pipe runs** up to 80m are possible with CKC outdoor units.
- Choice of **Low noise** range of outdoor units, for applications with pipe runs up to 15m.
- The **unit controls temperatures down to 10°C**, or (where a de-ice stat is fitted) to 8°C.
- Its **molded polymer cabinet** incorporates an **anti-bacterial additive** to help prevent mould growth.
- The unit has a six fins-per-inch **brewery-specification heat exchanger**.
- **New mounting brackets** are provided for quick and simple wall or ceiling mounting.



CX unit shown with optional digital temperature display.

# for best beer storage

- **Rounded corners** on the cabinet and drain tray enhance safety. The drain tray, made of 3mm ABS plastic, is a corrosion resistant alternative to aluminium.
- All units incorporate a **new fan and motor assembly**, designed to reduce sound levels and improve airflow.
- The **ABS drain tray** incorporates a **standard 22mm OD fitting drain stub**, for connection to copper, plastic or flexible hose (¾" ID converter also included).
- **Direct access to the electrics** is provided via the front of the unit for mains and interconnecting wiring.



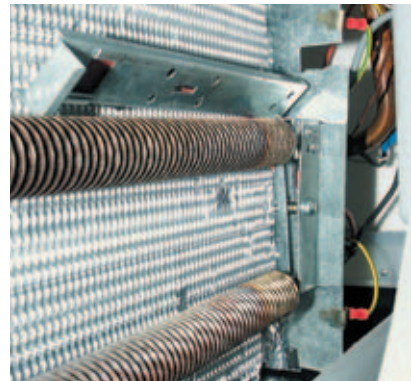
Convenient access to electrics for installation and maintenance

- The plastic covered **waterproof power switch** has been retained as a further safety feature.
- Units are supplied with a Nitrogen holding charge.
- An **easy to install electric heater kit** is offered as an option to maintain temperatures all-year-round – important where cask-conditioned ales are stored.
- CellarKing units provide **air throws to suit all applications**.
- CellarKing units are delivered in **newly-designed packaging** for added protection.



Pipe access for expansion assembly change to facilitate longer pipe runs

- Choice of **weatherproof outdoor condensing units** incorporating a low pressure switch, HP switch (auto reset) and low ambient start as standard. Options include isolator (for remote mounting) and wall-mounting brackets.
- Expansion device fitted on indoor unit as standard or can be easily fitted to outdoor unit for **longer pipe runs** (kit required) (CKC only).
- CellarKing units are also suitable for **wine cellars**, and for extending the life of **perishable goods**, such as **chocolates, flowers** and **fresh produce**.



Electric heater option to maintain temperatures all year round

## TECHNICAL SELECTION DATA

| Cooling Duty (kW) @ 27°C (81°F) Ambient Temperature |             |                    |             |               | Quick Selection Guide for Cellars* @ 12.7°C (55°F) |                 | Condensing Unit | Nominal hp | Pipe Sizes for 7.5m Pipe Runs (equivalent length) |            | System Fuse Sizes** (Amps) |      |
|---|-------------|--------------------|-------------|---------------|--|-----------------|-----------------|------------|---|------------|----------------------------|------|
| CX  | Refrigerant | Cellar Temperature |             |               | Ground Level                                       | m³ (cubic feet) |                 |            | Suction (ins)                                     | Exp. (ins) | 1 ph                       | 3 ph |
|   |             | 8°C (47°F)         | 10°C (50°F) | 12.7°C (55°F) |  |                 |                 |            |   |            |                            |      |
| 30  | R407C       | 2.42               | 2.55        | 3.00          | Above  | 32 (1130)       | CKR 30          | 1¼         | ½   | ⅜          | 20                         | –    |
|   |             |                    |             |               | Below  | 42 (1500)       |                 |            |   |            |                            |      |
| 50  | R407C       | 3.70               | 3.88        | 4.60          | Above  | 40 (1400)       | CKR 50          | 1½         | ½   | ⅜          | 20                         | –    |
|   |             |                    |             |               | Below  | 55 (2000)       |                 |            |   |            |                            |      |
| 70  | R407C       | 4.75               | 5.00        | 5.70          | Above  | 75 (2700)       | CKR 80          | 2          | ⅝   | ½          | 32                         | –    |
|   |             |                    |             |               | Below  | 95 (3400)       |                 |            |   |            |                            |      |
| 30  | R407C       | 2.25               | 2.37        | 2.80          | Above  | 25 (900)        | CKC 20          | 1          | ½   | ⅜          | 16                         | –    |
|   |             |                    |             |               | Below  | 30 (1100)       |                 |            |   |            |                            |      |
| 40  | R407C       | 2.55               | 2.80        | 3.30          | Above  | 32 (1130)       | CKC 30          | 1¼         | ½   | ⅜          | 20                         | –    |
|   |             |                    |             |               | Below  | 42 (1500)       |                 |            |   |            |                            |      |
| 50  | R407C       | 3.70               | 3.88        | 4.60          | Above  | 40 (1400)       | CKC 50          | 1½         | ½   | ⅜          | 20                         | –    |
|   |             |                    |             |               | Below  | 55 (2000)       |                 |            |   |            |                            |      |
| 70  | R407C       | 5.70               | 5.98        | 6.8           | Above  | 75 (2700)       | CKC 80          | 2          | ⅝   | ½          | 32                         | 20   |
|   |             |                    |             |               | Below  | 95 (3400)       |                 |            |   |            |                            |      |

\*Figures shown are for a typical UK cellar inside a main building

\*\*For information only and should be sized in accordance with IEE or local and national regulations

## COOLING

| Indoor Unit | Outdoor Unit |     | Total Cooling kW | SHR  | Optional Electric Heating |      | System Max Starting Current |         | Full Load Amps 1 Phase |         | Full Load Amps 3 Phase |         |         |
|-------------|--------------|-----|------------------|------|---------------------------|------|-----------------------------|---------|------------------------|---------|------------------------|---------|---------|
|             | Cellarator   | CKR |                  |      | CKC                       | kW   | kW                          | 1 Phase | 3 Phase                | Cooling | Heating                | Cooling | Heating |
|             |              |     |                  |      |                           | 230V | 240V                        | Amps    | A/Phase                | Amps    | Amps                   | A/Phase | A/Phase |
| CX30        | —            | 20  | 2.8              | 0.75 | 3.0                       | 3.13 | 30                          | —       | 7.7                    | 13.8    | —                      | —       |         |
|             | 30           | —   | 3.0              | 0.77 | 3.0                       | 3.13 | 33                          | —       | 5.8                    | 13.8    | —                      | —       |         |
| CX40        | —            | 30  | 3.3              | 0.68 | 3.0                       | 3.13 | 38                          | —       | 8.2                    | 13.8    | —                      | —       |         |
|             | —            | —   | —                | —    | —                         | —    | —                           | —       | —                      | —       | —                      | —       |         |
| CX50        | —            | 50  | 4.6              | 0.66 | 3.0                       | 3.13 | 60                          | —       | 9.7                    | 13.8    | —                      | —       |         |
|             | 50           | —   | 4.6              | 0.76 | 3.0                       | 3.13 | 48                          | —       | 8.4                    | 13.8    | —                      | —       |         |
| CX70        | 80           | —   | 5.7              | 0.67 | 3.0                       | 3.13 | 58                          | —       | 10.0                   | 13.8    | —                      | —       |         |
|             | —            | 80  | 6.8              | 0.63 | 3.0                       | 3.13 | 78                          | 42      | 12.3                   | 13.8    | 5.7                    | 13.8    |         |

Cooling duties rated at 12.7°C db/10°C wb indoor, 27°C db/19°C wb outdoor.  
Electrical characteristics: CX models and 1 phase outdoor units: 230 volts 50Hz. 3 phase outdoor units: 400 volts 50Hz.

## AIRFLOW AND SOUND LEVELS

| Indoor Unit | Airflow    |       |      | Sound Levels |     |    |
|-------------|------------|-------|------|--------------|-----|----|
|             | Cellarator | m³/h  | m³/s | cfm          | dBA | NC |
| CX30        | —          | 2,196 | 0.61 | 1,293        | 51  | 46 |
| CX40        | —          | 2,196 | 0.61 | 1,293        | 51  | 46 |
| CX50        | —          | 2,376 | 0.66 | 1,399        | 52  | 48 |
| CX70        | —          | 2,088 | 0.58 | 1,229        | 49  | 45 |

Sound levels measured at 1.5m distance in anechoic conditions.

## UNPACKED DIMENSIONS - CELLARATORS

| Cellarator | Height* mm | Width mm | Depth† mm | Weight** kg |
|------------|------------|----------|-----------|-------------|
| CX30       | 467        | 845      | 320       | 18          |
| CX40       | 467        | 845      | 320       | 20          |
| CX50       | 467        | 845      | 320       | 20          |
| CX70       | 467        | 845      | 320       | 23          |

\*Excludes drain stub \*\*Does not include charge weight of approx 2kg †Excludes mounting brackets

## UNPACKED DIMENSIONS - CONDENSING UNITS

| CKC | CKR | Height mm | Width mm | Depth mm | Weight kg |         | Sound Levels |    |
|-----|-----|-----------|----------|----------|-----------|---------|--------------|----|
|     |     |           |          |          | 1 Phase   | 3 Phase | dBA          | NC |
| 20  | —   | 620       | 904      | 333      | 46        | —       | 53           | 48 |
| —   | 30  | 545       | 795      | 320      | 39        | —       | 47           | 42 |
| 30  | —   | 620       | 904      | 333      | 48        | —       | 53           | 48 |
| —   | 50  | 605       | 850      | 345      | 48        | —       | 47           | 42 |
| 50  | —   | 720       | 1004     | 333      | 64        | —       | 54           | 49 |
| —   | 80  | 700       | 870      | 360      | 62        | —       | 49           | 44 |
| 80  | —   | 720       | 1004     | 333      | 66        | 64      | 54           | 49 |

Sound levels measured at 3m distance in anechoic conditions.

## CONDENSING UNITS

| Features and Accessories            | CKC | CKR |
|-------------------------------------|-----|-----|
| Fan Speed Head Pressure Control     | ●   | ●   |
| HP Switch Auto                      | ●   | ●   |
| LP Switch Auto                      | ●   | ●   |
| Low Ambient Start                   | ●   | ●   |
| Three Minute Start Delay Timer      | ●   | ●   |
| Random Start                        | ●   | ●   |
| Overload 1 Phase (Standard on 3 Ph) | ⊙   | n/a |
| Isolator (for Remote Mounting)      | ⊙   | ⊙   |
| Wall Mounting Brackets              | ⊙   | ⊙   |
| Contactors                          | ●   | ●   |
| Compressor Jacket                   | ⊙   | ●   |

● Standard ⊙ Optional

## CKR CONDENSING UNIT



CKR30

CKR50

CKR80

## CKC CONDENSING UNIT



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