

## Refrigeration & Air Conditioning

**WINE CELLAR COOLERS**  
**MARSTAIR HAS THE PERFECT**  
**RANGE OF SOLUTIONS FOR DO-**  
**MESTIC AND COMMERCIAL WINE**  
**CELLAR COOLING FOR A WIDE**  
**RANGE OF CELLAR SIZES.**

Attractive and quiet high wall mounted cooling units (WM) with long air throws or concealed ducted cooling units (DXD) where the cooling systems need only be felt but not be seen or heard.

Small, low noise level outdoor units (CKC+) are available for the heat extraction or alternatively a ducted heat extract unit (DCU+) can be used where outdoor unit installations are not an option.

These high quality cooling systems are manufactured in the UK to the BS EN 14001 environmental standards.

For further information please contact our Technical Department on **01484 405666** or email us at **sales@marstair.com**



## Wine Cellar Cooling Solutions

**DXD CONCEALED DUCTED UNIT**  
**THE DXD SERIES IS A CONCEALED, DUCTED SPLIT SYSTEM DESIGNED FOR HORIZONTAL CEILING VOID APPLICATIONS AND SUPPLIED COMPLETE WITH A DISCHARGE PLENUM AND SPIGOTS. IDEAL FOR IRREGULAR SHAPED ROOMS, AND WHERE LOW SOUND LEVELS ARE ESSENTIAL.**

Designed and manufactured in the UK using high quality components, the DXD is available with cooling duties for above ground cellars up to 70m<sup>3</sup> and below ground cellars up to 89m<sup>3</sup> at 12.7°C.

The DXD exhibits all of the features expected from a modern, high quality split system whilst remaining exceptionally competitive.



### Specification

- Low sound levels
- De-Ice thermostat
- Easy filter access
- Long pipe runs up to 80m (CKC/DCU+15-20 50m only)
- Matching outdoor units are factory charged with R407C refrigerant
- Hard wired controller
- 250mm Spigots

### Options

- Condensate pump
- Electric heating
- LPHW
- Return air plenum
- 200mm spigots
- Fresh air inlet
- Return air sensor
- Programmable timer cable (for wired control)

### DIMENSIONS

| Unit Model | Width (mm) |           | Length (mm) |                        |              | Depth (mm) | Weight (mm) |
|------------|------------|-----------|-------------|------------------------|--------------|------------|-------------|
|            | Case Only  | Inc. Tray | Case Only   | Case Inc. Inlet Plenum | Spigot Depth |            |             |
| DXD 50     | 630        | 860       | 886         | 1144                   | 47           | 285        | 42          |
| DXD 60     | 880        | 1110      | 886         | 1144                   | 47           | 285        | 52          |
| DXD 90     | 1230       | 1460      | 886         | 1144                   | 47           | 285        | 69          |
| DXD 130    | 1430       | 1660      | 886         | 1144                   | 47           | 285        | 86          |
| DXD 150    | 1780       | 2010      | 886         | 1144                   | 47           | 285        | 103         |

## Wine Cellar Cooling Solutions



**WM - WALL MOUNTED UNIT**  
**THE WALL MOUNTED WM SERIES IS IDEAL FOR COMMERCIAL AND DOMESTIC APPLICATIONS AND THE UNITS ARE VERSATILE AND SIMPLE TO INSTALL AND MAINTAIN.**

Designed for high wall mounting, the hi-level front air flow optimizes the Coanda effect, pushing air forward from the top of the unit for effective air distribution, minimising draughts.

Designed and manufactured in the UK using high quality components, the wall mounted WM range is available in 3 models with cooling duties for above ground cellars up to 36m<sup>3</sup> and below ground cellars up to 47m<sup>3</sup> at 12.7°C. Matching outdoor units are factory charged with R407C refrigerant and have the option of extra long pipe runs for added flexibility.

### Specification

- Low sound levels
- Space saving 'V'-shaped heat exchanger
- Adjustable air deflectors
- Long life washable filters
- De-ice thermostat
- Wipe clean, lightweight one-piece removable cover
- Long pipe runs up to 80m (CKC/DCU+15-20 50m only)
- Matching outdoor units are charged with R407C refrigerant
- Hard wired controller
- Optional built-in condensate pump kit
- Optional background electric heating or boost heating
- Optional remote temperature sensor
- The WM can be networked as either a multi-split or group control system

### DIMENSIONS

| Unit Model | Height (mm) | Width (mm) | Depth (mm) | Weight (approx Kg) |
|------------|-------------|------------|------------|--------------------|
| WM 60      | 350         | 1200       | 223        | 19                 |
| WM 80      | 350         | 1500       | 223        | 23                 |
| WM 100     | 350         | 1800       | 223        | 27                 |

# Technical Information

| MODEL  |            | 10°C & 70% RH |               |              | 12.7°C & 70% RH |               |              | 15°C & 70% RH |               |              |
|--------|------------|---------------|---------------|--------------|-----------------|---------------|--------------|---------------|---------------|--------------|
| INDOOR | OUTDOOR    | TOTAL DUTY    | CELLAR VOLUME |              | TOTAL DUTY      | CELLAR VOLUME |              | TOTAL DUTY    | CELLAR VOLUME |              |
|        |            |               | ABOVE GROUND  | BELOW GROUND |                 | ABOVE GROUND  | BELOW GROUND |               | ABOVE GROUND  | BELOW GROUND |
| WM60   | CKC/DCU+15 | 1.66          | 11            | 14           | -               | -             | -            | -             | -             | -            |
| WM80   | CKC/DCU+20 | 2.29          | 16            | 21           | -               | -             | -            | -             | -             | -            |
| WM100  | CKC/DCU+30 | 2.96          | 22            | 28           | -               | -             | -            | -             | -             | -            |
| DXD50  | CKC/DCU+15 | 1.90          | 13            | 17           | -               | -             | -            | -             | -             | -            |
| DXD60  | CKC/DCU+20 | 2.43          | 17            | 22           | -               | -             | -            | -             | -             | -            |
| DXD90  | CKC/DCU+40 | 3.83          | 29            | 38           | -               | -             | -            | -             | -             | -            |
| DXD130 | CKC/DCU+40 | 3.89          | 30            | 38           | -               | -             | -            | -             | -             | -            |
| DXD150 | CKC/DCU+50 | 5.08          | 40            | 51           | -               | -             | -            | -             | -             | -            |
| WM60   | CKC/DCU+20 | -             | -             | -            | 2.26            | 21            | 27           | -             | -             | -            |
| WM80   | CKC/DCU+40 | -             | -             | -            | 3.47            | 35            | 45           | -             | -             | -            |
| WM100  | CKC/DCU+40 | -             | -             | -            | 3.60            | 36            | 47           | -             | -             | -            |
| DXD50  | CKC/DCU+20 | -             | -             | -            | 2.51            | 24            | 31           | -             | -             | -            |
| DXD60  | CKC/DCU+30 | -             | -             | -            | 3.22            | 32            | 41           | -             | -             | -            |
| DXD90  | CKC/DCU+60 | -             | -             | -            | 5.49            | 58            | 74           | -             | -             | -            |
| DXD130 | CKC/DCU+60 | -             | -             | -            | 5.61            | 59            | 76           | -             | -             | -            |
| DXD150 | CKC/DCU+80 | -             | -             | -            | 6.56            | 70            | 89           | -             | -             | -            |
| WM60   | CKC/DCU+30 | -             | -             | -            | -               | -             | -            | 2.96          | 35            | 45           |
| WM80   | CKC/DCU+50 | -             | -             | -            | -               | -             | -            | 4.55          | 56            | 72           |
| WM100  | CKC/DCU+60 | -             | -             | -            | -               | -             | -            | 5.01          | 62            | 80           |
| DXD50  | CKC/DCU+30 | -             | -             | -            | -               | -             | -            | 3.28          | 39            | 50           |
| DXD60  | CKC/DCU+40 | -             | -             | -            | -               | -             | -            | 3.87          | 47            | 60           |
| DXD90  | CKC/DCU+80 | -             | -             | -            | -               | -             | -            | 6.56          | 83            | 107          |
| DXD130 | CKC+90     | -             | -             | -            | -               | -             | -            | 7.47          | 95            | 122          |
| DXD150 | CKC+100    | -             | -             | -            | -               | -             | -            | 8.37          | 107           | 138          |

Performances shown at low speed for low sound levels at 27°C external ambient.  
Please contact Marstair technical support on 01484 405666 for sound figures

## Options & Matches

| DIMENSIONS AND WEIGHTS - CKC+ 15-100 |             |            |            |             |     |                  |
|--------------------------------------|-------------|------------|------------|-------------|-----|------------------|
| MODEL                                | HEIGHT (mm) | WIDTH (mm) | DEPTH (mm) | WEIGHT (mm) |     | SOUND LEVELS dBA |
|                                      |             |            |            | 1Ph         | 3Ph |                  |
| CKC+ 15                              | 560         | 900        | 300        | 45          | -   | 40               |
| CKC+ 20                              | 560         | 900        | 300        | 46          | -   | 40               |
| CKC+ 30                              | 560         | 900        | 300        | 48          | 48  | 41               |
| CKC+ 40                              | 560         | 900        | 300        | 53          | 53  | 41               |
| CKC+ 50                              | 660         | 1000       | 300        | 64          | 62  | 40               |
| CKC+ 60                              | 660         | 1000       | 300        | 65          | 63  | 40               |
| CKC+ 80                              | 660         | 1000       | 300        | 66          | 64  | 40               |
| CKC+ 90                              | 760         | 1000       | 350        | 76          | 73  | 43               |
| CKC+ 100                             | 760         | 1000       | 350        | -           | 81  | 44               |

Sound pressure levels at 10m distance in free field conditions  
(reference  $2 \times 10^{-5} \text{N/m}^2$ )



| DIMENSIONS AND WEIGHTS - DCU+ 15-80 |               |            |            |             |             |
|-------------------------------------|---------------|------------|------------|-------------|-------------|
| MODEL                               | HEIGHT (mm)** | WIDTH (mm) | DEPTH (mm) | SPIGOT (mm) | WEIGHT (mm) |
| DCU+ 15                             | 495           | 1004       | 510        | 354         | 75          |
| DCU+ 20                             | 495           | 1004       | 510        | 354         | 75          |
| DCU+ 30                             | 495           | 1004       | 510        | 354         | 77          |
| DCU+ 40                             | 560           | 1174       | 510        | 404         | 86          |
| DCU+ 50                             | 560           | 1174       | 510        | 404         | 90          |
| DCU+ 60                             | 560           | 1174       | 510        | 404         | 91          |
| DCU+ 80                             | 560           | 1174       | 510        | 404         | 92          |

\*\*Not including mounting feet 65mm



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TEV has earned management system accreditations – BSI 14001: 2015 Environmental Management and BSI 9001: 2015 Quality Management.



In partnership with



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