

## Description

The **EN42CW** is a compact, close coupled chilled water cooling unit that utilises electronically controlled fans and valve technology combined with the **V-Coil**. This allows the **EN42CW** to deliver impressive cooling duties from a space saving package. The **EN42CW** can provide up to 70kW of sensible cooling, while occupying the space of a single **42U** cabinet.

## Application

The **EN42CW** is ideal for all IT room and data centre applications. It offers excellent duty-to-footprint ratios and coupled with **Optimum's internal Hot Air Corridor (iHAC)** offers class leading efficiency for all heat densities.

## Air Handling Unit Specification

Fans		
Quantity	No.	5
Type	-	ebmR3G310 AN43-71
Nominal Air Flow	m³/h	11600
Nominal Fan Power	kW	0.74
Sound Level	dB(A)	69
Max Air Flow - Semi Recessed	m³/h	14500
Electrical Characteristics		
Power Supply	V/Ph/Hz	230/1/50
Configuration	-	Dual Power Supply with ATS Relay - IEC C20 Chassis Plugs
Max Fan Motor Current (each) - Semi Recessed	A	0.82
Max Fan Motor Power (each) - Semi Recessed	W	0.19
Max Absorbed Power - Semi Recessed	kW	0.95
Chilled Water Coil		
Rows	No.	3
Face Area	m²	1.83
Tubes/Fins	-	Cu tubes/Al fins
Water Connections		
Chilled Water Supply and Return	BSPT	1.5"
Condensate Pump	mm (ID)	6
Drain	NPT	1/4" x 18
Weight and Dimensions		
Unit Packed Shipping Weight	kg	190
Unit Weight	kg	160
Unit Weight Filled With Water	kg	170
Unit Dimensions (H x W x D)	mm	1885 x 440 x 990
Unit Packed Dimensions (H x W x D)	mm	1900 x 500 x 1200





EN42CW

## Nominal Performance Data

Entering Water Temp. (°C)		10	12	13	14	16
Return Air Temp. (°C)	CW Temp. Rise (°C)	Sensible Capacity (kW)				
35.00	5.5	68	63	60	57	52

## Nomenclature

Example: **EN / 21 / CW / 2 / - / D / PFC**

Model type: **EN**

Unit Size:

10  
25  
21  
42

Cooling Medium:

Chilled Water <sup>(1)</sup>

Direct Expansion <sup>(2)</sup>

**CW**

**DX**

Control Valves:

DX

**1**

2-Port Valve

**2**

3-Port Valve

**3**

PICV

**4**

Filter:

Disposable filter <sup>(3)</sup>

**F**

None

**-**

Accessories:

Leak Detection <sup>(4)</sup>

**D**

Condensate Pump <sup>(5)</sup>

**P**

Leak detection & condensate pump

**B**

None

**-**

Push fit connections & hoses

**PFC**

### Notes

1. CW available on EN21 and EN42
2. DX available on EN10 and EN21; includes in-rack cooler and matching air-cooled condenser
3. Washable filter, grade EU4
4. Leak detection standard on DX units, optional on CW units
5. Condensate pump on DX units, optional on CW units

## Specification

For full specification and performance details please refer to Technical Data Manual and Installation & Operating manual

