

## Description

The **EN21CW** 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 **EN21CW** to deliver impressive cooling duties from a space saving package. The **EN21CW** can provide upto 30kW of sensible cooling, while occupying half of the space of a single **42U** cabinet.

## Application

The **EN21CW** 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 Capture (iHAC)** offers class leading efficiency for all heat densities.

## Air Handling Unit Specification

Fans		
Quantity	No.	2
Type	-	ebmR3G310 AN43-71
Nominal Air Flow	m³/h	4800
Nominal Fan Power	kW	0.3
Sound Level	dB(A)	0.65
Max Air Flow - Semi Recessed	m³/h	6200
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	0.4
Chilled Water Coil		
Rows	No.	3
Face Area	m²	0.92
Tubes/Fins	-	Cu tubes/Al fins
Water Connections		
Chilled Water Supply and Return	BSPT	1.25"
Condensate Pump	mm (ID)	6
Drain	NPT	1/4" x 18
Weight and Dimensions		
Unit Packed Shipping Weight	kg	105
Unit Weight	kg	90
Unit Weight Filled With Water	kg	98
Unit Dimensions (H x W x D)	mm	950 x 440 x 990
Unit Packed Dimensions (H x W x D)	mm	1000 x 500 x 1000



## 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	28	26	24	22	20

## Nomenclature

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

**Model type:** EN

**Unit Size:**  
 10  
 25  
 21  
 42

**Cooling Medium:**  
 Chilled Water <sup>(1)</sup> CW  
 Direct Expansion <sup>(2)</sup> 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 EN 21; 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 standard on DX units, optional on CW units

## Specification

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

