



# CWM(L)

Chilled Water Wall Mounted Unit

## Introduction

The slimline CWM combines fresh styling with powerful performance. Architects and consultants now have an attractive and highly practical solution for commercial and retail fan coil applications, including hotels, bars and restaurants.

Designed for high wall mounting, the hi-level front airflow optimises 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 CWM range is available in three sizes with a large selection of factory fit accessories.

With low sound levels, adjustable air deflectors, a light weight and long life washable filters the CWM is the perfect choice.



### STANDARD FEATURES

- High wall mounting with hi-level front airflow
- Wired to suit hard wired controller (CWM) or to suit infrared controller (CWM L)
- Adjustable air deflectors
- Low sound levels
- Low weight for ease of installation and maintenance
- Long Life washable filters

### OPTIONS

- Condensate pump (5m head with overflow protection) incorporated within the unit LPHW heating coil (factory fit only)
- Background electric heating on 2 pipe models
- 2 port on/off valves or 4 port diverting valves housed within the cabinet
- Remote hard wired controller
- Remote temperature sensor
- Infra Red remote controller for "L" version
- Pipe thermostat for 2 pipe heat pump systems
- Matching chillers available

#### DIMENSIONS

Model	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)
CWM(L) 55	350	1200	223	19
CWM(L) 75	350	1500	223	23
CWM(L) 105	350	1800	223	27

#### SOUND LEVELS

Model	Sound Pressure Levels		
	Low	Medium	High
	dBA	dBA	dBA
CWM(L) 55	25	31	37
CWM(L) 75	33	37	39
CWM(L) 105	30	35	40

Leading the way in Fan Coil Technology

# CWM(L) Technical Data

COOLING CAPACITIES - 2 PIPE - kW (Eurovent conditions shown in BOLD)									
MODEL	AIR ENTERING DRY BULB (WET BULB)			27°C (19°C)			23°C (16°C)		
				FAN SPEED			FAN SPEED		
	Water			1	2	3	1	2	3
In °C	Out °C	(WB)							
CWM 55	6	12	TC	2.51	271	3.35	1.75	1.86	2.28
			SC	2.13	2.33	2.89	1.60	1.71	2.10
	7	12	TC	<b>2.55</b>	<b>2.81</b>	<b>3.54</b>	1.71	1.84	2.24
			SC	<b>2.20</b>	<b>2.41</b>	<b>3.05</b>	1.57	1.70	2.06
CWM 75	6	12	TC	3.96	4.81	5.35	2.68	3.06	3.32
			SC	3.28	3.99	4.49	2.44	2.78	3.03
	7	12	TC	<b>4.12</b>	<b>5.09</b>	<b>5.72</b>	2.62	3.11	3.43
			SC	<b>3.42</b>	<b>4.22</b>	<b>4.75</b>	2.41	2.86	3.16
CWM 105	6	12	TC	4.95	6.19	8.15	3.11	3.72	4.76
			SC	3.96	4.95	6.44	2.80	3.38	4.33
	7	12	TC	<b>5.11</b>	<b>6.36</b>	<b>8.25</b>	3.13	3.85	5.01
			SC	<b>4.09</b>	<b>5.09</b>	<b>6.60</b>	2.85	3.50	4.56

HEAT CAPACITIES (Eurovent conditions shown in BOLD)					
MODEL	AIR ENTERING DRY BULB		20°C db		
			FAN SPEED		
	Water		1	2	3
In °C	Out °C				
CWM 55	82	71	1.05	1.25	1.55
	<b>70</b>	<b>60</b>	<b>0.55</b>	<b>0.55</b>	<b>0.65</b>
	60	50	0.39	0.40	0.35
CWM 75	82	71	1.94	2.14	2.34
	<b>70</b>	<b>60</b>	<b>1.24</b>	<b>1.54</b>	<b>1.74</b>
	60	50	0.44	0.54	0.54
CWM 105	82	71	2.33	2.63	3.03
	<b>70</b>	<b>60</b>	<b>1.73</b>	<b>2.03</b>	<b>2.33</b>
	60	50	0.63	0.73	0.93

REVERSE CYCLE CHILLER HEATING DUTIES - 2 PIPE SYSTEM (Eurovent conditions shown in BOLD)										
MODEL	AIR ENTERING DRY BULB	18°C			20°C			22°C		
		FAN SPEED			FAN SPEED			FAN SPEED		
	Water In °C *	Low	Medium	High	Low	Medium	High	Low	Medium	High
CWM 55	50	4.79	5.20	6.28	<b>4.48</b>	<b>4.86</b>	<b>5.88</b>	4.16	4.52	5.46
CWM 75	50	6.78	8.02	8.80	<b>6.34</b>	<b>7.50</b>	<b>8.23</b>	5.89	6.97	7.65
CWM 105	<b>50</b>	7.79	9.32	11.41	<b>7.28</b>	<b>8.71</b>	<b>10.67</b>	6.76	8.09	9.91

\* Flow rate as per cooling

AIRFLOWS			
MODEL	Low	Medium	High
	m³/s	m³/s	m³/s
CWM(L) 55	0.190	0.210	0.265
CWM(L) 75	0.23	0.31	0.37
CWM(L) 105	0.23	0.34	0.43

OPTIONAL ELECTRICAL HEATING (2 PIPE MODELS ONLY)		
MODEL	230v kW	240v kW
CWM(L) 55	1.2	1.2
CWM(L) 75	1.7	1.8
CWM(L) 105	2.1	2.3

# Quartz

## CWW(L)

High or Low Level Wall Mounted Units

### Introduction

Designed and manufactured in the UK using high quality components, the CWW, from Quartz chilled water range, is a high quality, attractively styled, fan coil unit. Lightweight and versatile, units are available in three model sizes. Ideal for smaller retail and individual office applications, the CWW models are quiet in operation and can be easily mounted at high or low level. The option of forward or upward air discharge can be chosen to minimise draughts. CWW(L) units have infrared remote control as an alternative to the CWW electromechanical control.

#### STANDARD FEATURES

- High or low level wall mounting with forward/upward air discharge and adjustable air deflectors
- Remote hard wired controller
- Low sound levels
- Lightweight
- 2 or 4 pipe models available
- LPHW heating circuit as standard
- Adjustable air deflectors
- Long life washable filters
- Control options including built-in, electromechanical and infrared

#### 3 CABINET SIZES



CWW 15

CWW 35

CWW 55



#### OPTIONS

- Condensate pump (5m head - with overflow protection) incorporated within the unit
- Chilled water 2 port on/off valve or 4 port diverting valve (fitted internally)
- LPHW valves available for site fitting (external to unit)
- Remote room temperature sensor for CWW
- Infrared remote control for CWW(L)
- Pipe thermostat for 2 pipe heat pump system
- Matching chillers/heat pumps available

#### CONTROLS

CWW can be provided with in-built electromechanical controls, featuring 3 speed switch for fan operation and a thermostatic temperature controller. It can (without in-built controls) also be wired to an optional wall mounted thermostatic temperature controller, which also provides on/off and fan speed switches. CWW(L) is wired for infrared remote control, individual handset(s) being optional.



# CWW(L) Technical Data

COOLING CAPACITIES															
MODEL	AIR ENTERING DRY BULB (WET BULB)			21°C (15°C)			23°C (16°C)			24°C (17°C)			27°C (19°C)		
				AIRFLOW			AIRFLOW			AIRFLOW			AIRFLOW		
	Water In °C	Water Out °C		Low	Medium	High	Low	Medium	High	Low	Medium	High	Low	Medium	High
CWW(L) 15	5	11	TC	0.55	0.66	0.72	0.64	0.77	0.85	0.73	0.83	0.91	0.94	1.08	1.26
			SC	0.55	0.66	0.72	0.64	0.77	0.85	0.67	0.83	0.91	0.79	0.99	1.16

COOLING CAPACITIES															
MODEL	AIR ENTERING DRY BULB (WET BULB)			21°C (15°C)			23°C (16°C)			24°C (17°C)			27°C (19°C)		
				AIRFLOW			AIRFLOW			AIRFLOW			AIRFLOW		
	Water In °C	Water Out °C		Low	Medium	High	Low	Medium	High	Low	Medium	High	Low	Medium	High
CWW(L) 35	5	11	TC	1.10	1.23	1.36	1.29	1.45	1.70	1.39	1.56	1.95	2.30	2.69	3.05
			SC	1.10	1.23	1.36	1.29	1.45	1.70	1.38	1.56	1.95	1.82	2.17	2.53

COOLING CAPACITIES															
MODEL	AIR ENTERING DRY BULB (WET BULB)			21°C (15°C)			23°C (16°C)			24°C (17°C)			27°C (19°C)		
				AIRFLOW			AIRFLOW			AIRFLOW			AIRFLOW		
	Water In °C	Water Out °C		Low	Medium	High	Low	Medium	High	Low	Medium	High	Low	Medium	High
CWW(L) 55	5	11	TC	1.67	2.00	2.65	1.98	2.95	3.58	1.88	2.09	3.20	4.09	5.20	6.14
			SC	1.66	2.00	2.65	1.93	2.71	3.34	1.84	2.09	3.11	2.84	3.69	4.46

TC = Total Cooling (kW) SC = Sensible Cooling (kW)

LOW PRESSURE HOT WATER COIL DUTIES - 4 PIPE SYSTEM					
CWW MODEL	AIR ENTERING DRY BULB		18°C	20°C	22°C
			FAN SPEED		
	Water In °C	Water Out °C	High	High	High
15	82	71	1.19	1.14	1.09
35	82	71	2.56	2.49	2.03
55	82	71	3.79	3.65	3.50

REVERSE CYCLE CHILLER HEATING DUTIES - 2 PIPE SYSTEM					
CWW MODEL	AIR ENTERING DRY BULB		18°C	20°C	22°C
			FAN SPEED		
	Water In °C *		High	High	High
15	50		2.07	1.94	1.81
35	50		4.37	4.09	3.81
55	50		7.58	7.08	6.07

\* Flow rate as per cooling

## Dimensions

DIMENSIONS				
Model	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)
15	490	550	204	14
35	490	850	204	20
55	490	1150	204	24



Approved to  
BS EN ISO 14001:2004



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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.

Part No: 06617703-01

FAN COILS : CHILLED WATER CASSETTES : CHILLED BEAM : CHILLERS