

WM Wall Mounted CO2 Evaporators



THE WALL MOUNTED CO2 EVAPORATOR IS SPECIFICALLY DESIGNED FOR COMFORT COOLING AND LOW TEMPERATURE AIRCONDITIONING APPLICATIONS SUCH AS FOOD PREPARATION AREAS.

**NEW
PRODUCT
NOW
AVAILABLE**

Designed for high wall mounting, the hi-level front air flow 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 WM unit is available in with 3 fan speeds with cooling duties from 3.8 to 5.0 kW at 5°C evaporating and 23°C return air temperature.

There is also the option of an LPHW (Low pressure hot water) coil for recycling the waste heat produced from the CO2 pack. This allows all your refrigeration and air conditioning needs to be supplied through the one CO2 pack, creating a more efficient system and eradicating the need for separate split systems for space cooling and heating.

The units deliver long air throws, low sound levels and comes with electromechanical control.



Specification

- Coils tested to 120 barg
- Maximum operating pressure = 90 barg
- 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
- Optional remote temperature sensor
- Cooling down to 10°C at -2.5°C evaporating temperature
- CO2 only for low temperature food preparation areas
- CO2 only for cooling only comfort cooling
- LPHW only for heating using recovered heat from the CO2 pack
- Combined CO2 and LPHW for comfort cooling and heating
- AC and EC fan options available



Technical Information

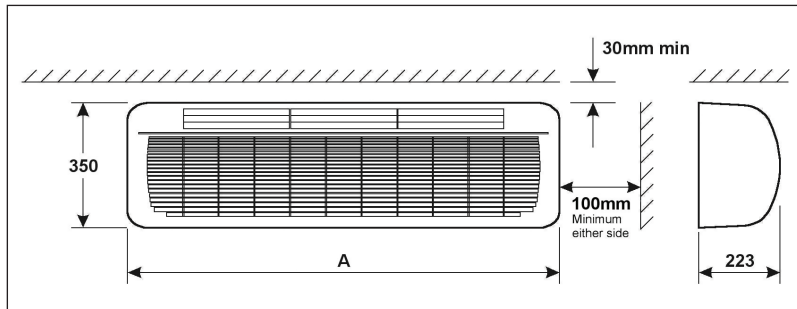
Cooling Performance

MODEL	Airflow l/s	EVAPORATING TEMPERATURE °C								
		2.5			5			7.5		
		Capacity kW			Capacity kW			Capacity kW		
		Total	Latent	Sensible	Total	Latent	Sensible	Total	Latent	Sensible
WM 60 @ 23 °C Air On	170	4.60	1.55	3.06	3.84	1.17	2.68	3.05	0.69	2.36
	190	4.90	1.63	3.27	4.11	1.24	2.87	3.26	0.72	2.55
	280	5.96	1.89	4.07	5.02	1.43	3.60	4.03	0.75	3.28

Heating Performance

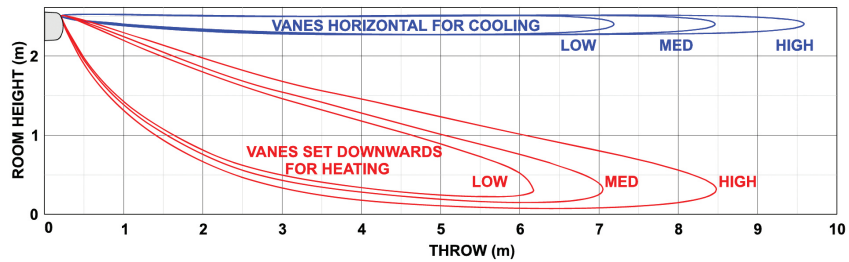
MODEL	Heating Duty at Air 20°C (kW)			
	Water Temperatures °C			
	60 - 30	60-40	65 - 40	50 - 30
CWM				
55	3.10	5.60	5.80	2.60
75	4.10	8.00	8.10	3.40
105	4.90	10.00	10.40	4.10

Unit Dimensions & Weight



MODEL	WM			
	60 CO2	55 LPHW CWM	75 LPHW CWM	105 LPHW CWM
HEIGHT (mm)	350	350	350	350
WIDTH A (mm)	1200	1200	1500	1800
DEPTH (mm)	223	223	223	223
WEIGHT kg	19	19	23	27

Air Throws



Airflows

MODEL	LOW SPEED	MEDIUM SPEED	HIGH SPEED
	M ³ /S	M ³ /S	M ³ /S
60 CO2	0.17	0.19	0.28
55 LPHW CWM	0.17	0.19	0.28
75 LPHW CWM	0.23	0.31	0.37
105 LPHW CWM	0.23	0.34	0.43

Sound Power & Sound Pressure Levels 556 Series WM (L) (E)

MODEL	SPEED	SOUND POWER LEVELS							SOUND PRESSURE LEVELS	
		FREQUENCY Hz							dBA	NC
		125	250	500	1K	2K	4K	dBA		
60 CO2	MIN	36.8	37	39.1	38.8	34.4	31.7	43	25	19
	MED	41	43.4	45.8	45.1	39.6	35.4	49	31	25
	MAX	46.7	48.6	50.6	50.4	46.6	39	54	37	31
55 LPHW CWM	MIN	36.8	37	39.1	38.8	34.4	31.7	43	25	19
	MED	41	43.4	45.8	45.1	39.6	35.4	49	31	25
	MAX	46.7	48.6	50.6	50.4	46.6	39	54	37	31
75 LPHW CWM	MIN	39.1	44.3	47.2	46.8	41.6	40.8	51	33	27
	MED	43.8	49.1	51.3	51.3	46.7	39.5	55	37	32
	MAX	45.5	50.5	53.7	52.9	48.7	40.8	57	39	34
105 LPHW CWM	MIN	34.1	38	44	42.3	41	38	48	30	24
	MED	42.7	45.8	48.9	49.1	44.2	38.1	53	35	30
	MAX	46.4	51.6	54.2	54.2	49.9	42.9	57	40	35

Sound Power Levels are obtained in conformance with BS4196:Part 5: 1981. Values are shown in dB with a standard reference of 1pW.
Sound Pressure Levels are dB relative to $2 \times 10^{-5} \text{N/m}$ and are calculated from results measured in anechoic conditions.
Values relate to a position of 3m away from the centre line of the unit, 1m down.

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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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