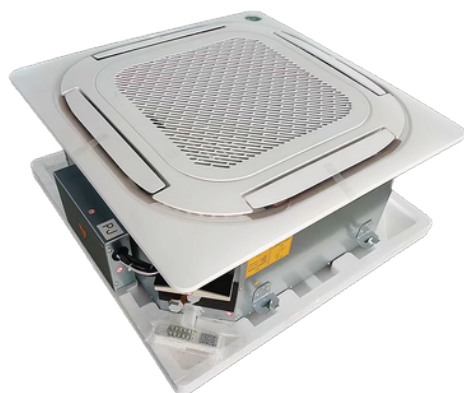


WESTON-AI-CAS Ceiling Cassette Fan Coil Unit



WESTON-AI-FC-WM Wall-mounted Fan Coil Unit



Product Features



High efficiency and low energy consumption

Utilizing the same structure and installation method as the standard fan coil unit motor, facilitating inspection and maintenance.

Integrated electromechanical design, compact size, and easy installation.

Unique communication function design, enabling intelligent



High-efficiency heat exchanger

Utilizing high-quality copper tubes paired with uniquely designed window-shaped hydrophilic aluminum fins, and processed using advanced mechanical tube expansion technology, this high-efficiency heat exchanger is manufactured.

The hydrophilic aluminum foil provides excellent drainage, significantly improving heat exchange efficiency.



Low-noise curved volute casing

Utilizing a newly designed low-speed, forward-inclined, multi-bladed, wide-impeller centrifugal fan, the impeller undergoes dynamic and static balancing for smooth operation.

A separate capacitor-type motor with permanently lubricated sealed bearings ensures smooth and efficient rotation.

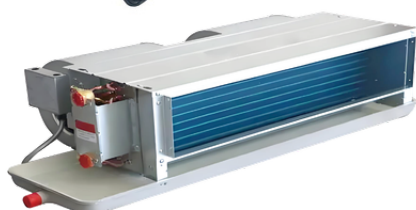


Thermal Insulation Performance

The condensate pan is a one-piece, stamped design, preventing leaks and eliminating the need for patching.

The insulation is specially designed and processed for superior performance.

No screws are needed to secure the condensate pan, preventing potential corrosion.



Simple and convenient installation

The unit boasts a compact structure, lightweight and aesthetically pleasing design, and an ultra-thin profile, saving indoor space. Its ultra-thin body, with a unit height of only 230mm, further reduces installation space.

The fan coil unit's sleek and elegant design suits various interior design styles.

WESTON-AI-CAS Ceiling Cassette Fan Coil Unit



WESTON-AI-CAS Ceiling Cassette Fan Coil Unit

- High-efficiency operation: Quiet operation, capable of rapid cooling and heating.
- Aesthetically pleasing: The one-piece injection molded panel can be perfectly integrated with the ceiling.
- Superior performance: Professional flow channel/heat exchange design ensures that the coefficient of performance (COP) for cooling/heating exceeds industry standards.
- Controllable airflow: The air outlet louvers can be adjusted at any angle.
- Condensate drainage design: Standard configuration includes a condensate booster pump and check valve (effectively prevents backflow of condensate system).



WESTON-AI-CAS Ceiling Cassette Fan Coil Unit Technical Parameter Table



Unit Model			WESTON-AI-CAS-340	WESTON-AI-CAS-510	WESTON-AI-CAS-680	WESTON-AI-CAS-850	WESTON-AI-CAS-1020	WESTON-AI-CAS-1360	WESTON-AI-CAS-1700	WESTON-AI-CAS-2040	WESTON-AI-CAS-2380
Rated air volume (m ³ /h)	H		340	510	680	850	1020	1360	1700	2040	2380
	M		260	390	510	640	770	1020	1280	1530	1790
	L		170	260	340	430	510	680	850	1020	1190
Rated cooling capacity	W	H	2000	2700	3700	4500	5600	7000	9100	10800	12600
Rated heat	W	H	2800	4200	5600	7000	8400	11200	13900	16700	19500
Output power W			34	38	43	54	63	111	126	177	203
Noise dB(A)		H	37	38	41	43	45	46	48	50	52
Water volume kg/H			344	464	636	774	963	1204	1565	1857	2167
Water pressure loss kPa			≤30	≤30	≤30	≤30	≤40	≤40	≤40	≤40	≤50
Number of coil rows			3	3	3	3	3	3			
Coil operating pressure (MPa)			1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Inlet/outlet water/condensate water connection pipe diameter			DN20/point 4								
Fan/Motor Type/Operating Voltage			AC motor/AC220V-50Hz								
Net weight (kg)			23	23	23	28	28	28	38	38	38
Coil length (mm)			680	680	680	835	835	835	960	960	960
Coil width (mm)			585	585	585	710	710	710	835	835	835
Coil height (mm)			280	280	280	320	320	320	320	320	320

Note :

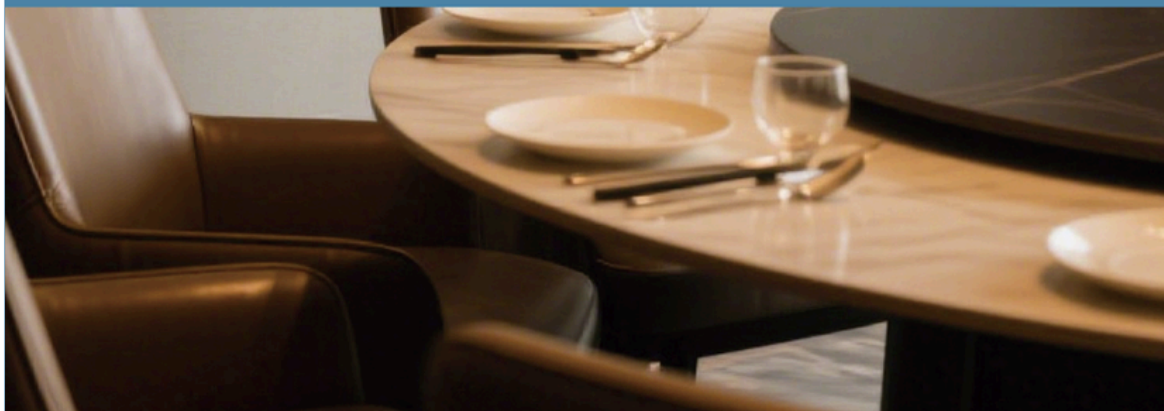
1. The data in the table are all for high-performance conditions and are all values with corresponding residual pressure.
2. The cooling capacity is the value measured when the cold water inlet temperature is 7°C, the inlet and outlet temperature difference is 5°C, and the inlet air temperature is DB=27°C and WB=19.5°C.
The heating capacity is the value measured when the hot water inlet temperature is 60°C and the air inlet temperature is DB=21°C, with the same amount of water as the cooling capacity.
3. The noise levels were measured in the anechoic chamber at a distance of 1 meter in front of and below the unit.
4. Due to the rapid pace of product updates in the market, changes to the technical parameters of the sample book may occur without prior notice.

WESTON-AI-FC-WM Wall-mounted Fan Coil Unit



WESTON-AI-FC-WM Wall-mounted Fan Coil Unit

- Independent control: Fan speed and temperature can be adjusted independently;
- High-efficiency operation: Quiet operation, capable of rapid cooling and heating.
- Aesthetically pleasing: The painted shell is beautiful and elegant, suitable for various decorating styles;
- Intelligent control enables whole-house intelligence;
- Controllable airflow: The air outlet louvers can be adjusted at any angle.



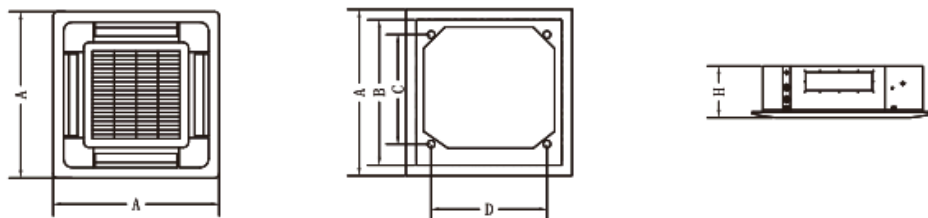
WESTON-AI-FC-WM Wall-Mounted Fan Coil Unit Technical Parameter Table

Unit Model			WESTON-AI-FC -WM-510	WESTON-AI-FC -WM-680	WESTON-AI-FC -WM-850	WESTON-AI-FC -WM-1020	WESTON-AI-FC -WM-1360
Rated air volume (m ³ /h)	H		510	680	850	1020	1360
	M		390	510	640	770	1020
	L		260	340	430	510	680
Rated cooling capacity	W	H	2700	3600	4500	5190	7200
Rated heat	W	H	4050	5400	6750	9165	10800
Output power W			33	33	41	41	60
Noise dB(A)		H	33	33	42	46	50
Water flow rate kg/H			478	638	797	956	1275
Water pressure loss kPa			≤30	≤30	≤30	≤40	≤40
Number of coil rows			2	2	2	2	2
Coil operating pressure (MPa)			1.2	1.2	1.2	1.2	1.2
Inlet/outlet water/condensate water connection pipe diameter			DN20/point 4				
Fan/Motor Type/Operating Voltage			EC DC motor / AC220V-50Hz				
Net weight (kg)			7.9	9.4	11	11.5	15.5
Coil length (mm)			820	865	975	975	1260
Coil width (mm)			205	195	235	235	235
Coil height (mm)			275	280	320	320	320

Note :

1. The data in the table are all for high-performance conditions and are all values with corresponding residual pressure.
2. The cooling capacity is the value measured when the cold water inlet temperature is 7℃ , the inlet and outlet temperature difference is 5 ℃, and the inlet air temperature is DB= 27℃ and WB=19.5 ℃ .
the value measured with a hot water inlet temperature of 60 ℃ and an air inlet temperature of DB=21 ℃ , using the same amount of water as the cooling capacity.
3. The noise levels were measured in the anechoic chamber at a distance of 1 meter in front of and below the unit.
4. Due to the rapid pace of product updates in the market, changes to the technical parameters of the sample book may occur without prior notice.

Dimensions Drawing of Cassette Fan Coil Unit WESTON-AI-CAS



MODEL	WESTON-AI-CAS-340	WESTON-AI-CAS-510	WESTON-AI-CAS-680	WESTON-AI-CAS-850	WESTON-AI-CAS-1020	WESTON-AI-CAS-1360	WESTON-AI-CAS-1700	WESTON-AI-CAS-2040	WESTON-AI-CAS-2380
A (mm)	680	680	680	835	835	835	960	960	960
B (mm)	585	585	585	710	710	710	835	835	835
H (mm)	280	280	280	320	320	320	320	320	320
C*D (mm)	425*615	425*615	425*615	340*740	340*740	340*740	415*865	415*865	415*865

Dimensions Drawing of Cassette Fan Coil Unit WESTON-AI-FC-WM



MODEL	WESTON-AI-FC-WM-510	WESTON-AI-FC-WM-680	WESTON-AI-FC-WM-850	WESTON-AI-FC-WM-1020	WESTON-AI-FC-WM-1360
L (mm)	820	865	975	975	1260
W (mm)	205	195	235	235	235
H (mm)	275	280	320	320	320

Unit Installation And Commissioning

1. Handle the unit with care during transport. Do not move the unit by holding the impeller or volute. If serious damage, deformation of the fan volute, deformation of the condensate pan, or loosening of the motor or fan is found before installation, please contact the dealer for repair or replacement.

2. When installing the unit, it should be kept horizontal or the drain end should be 3-5mm lower than the other end to ensure unobstructed drainage of the condensate pan. The unit should only bear its own weight and should not bear external forces from air ducts, water pipes or other objects. Sufficient low maintenance space should be left at the installation location.

3. A filter screen should be installed at the return air vent to prevent dust from clogging the heat exchanger fins and ensure its heat transfer capacity.



Unit Installation And Commissioning

4. The water pipes should be connected with the bottom inlet and the top outlet. Flexible pipes are recommended for both inlet and outlet. When connecting the pipes, the torque should not be too high to avoid damaging the heat exchanger. The inlet and outlet pipes should be insulated. Threaded connections are recommended to be sealed with PTFE raw rubber tape. The drain pipe should have a sufficiently low slope.
5. The unit's outlet water pipe is equipped with a manual air vent valve. Before initial operation and before switching between hot and cold water, the air vent valve must be opened and closed only after all air has been expelled from the coils and pipes; otherwise, the heat exchange effect will be affected. The unit's summer cooling water temperature should not be lower than 6°C, and the winter hot water temperature should not exceed 65°C. Clean and softened water is required.
6. The unit uses a single-phase 220V power supply. Power fluctuations must not exceed $\pm 10\%$. When wiring, please refer to the circuit diagram. It is strictly forbidden to connect any two of the high, medium, or low speed settings to the same wire; incorrect wiring may burn out the motor. The unit casing has a grounding nut for connecting to the protective grounding system during installation. Different models of low-speed units must not share a single three-speed switch; otherwise, the motor may also burn out.
7. When the unit is to be shut down for a long period of time, the coil should be filled with water to reduce the corrosion of the pipeline. However, antifreeze measures should be taken during the winter installation and commissioning process and during long-term shutdown to prevent the coil and water supply pipeline from freezing and cracking.
8. The heat exchanger should be purged regularly to keep it clean and maintain good heat transfer performance. The filter screen should be cleaned regularly to ensure unobstructed return air. It is strictly forbidden to operate the unit for a long time without a filter screen.

Note: If the equipment is not used for an extended period, we recommend the following maintenance and upkeep methods: Before restarting the unit, especially during long periods of inactivity or winter, all water in the system must be drained, and then the power supply should be turned off. Before restarting, check the power cord (from the distribution cabinet to the unit) for looseness or damage. After a comprehensive inspection of the unit confirms that everything is normal, it can be started up.

If necessary, the maintenance and upkeep methods used before the equipment is put into use can be followed.



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