



Evaporative humidifier

UC-EM1 / UC-EU1

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Water flows over elements made of high absorbent polymeric fiber and is caused to evaporate by the air flow from an A/C fan, the applicable saturation efficiency is 23...85%.

It makes clean humidification and works cooling effect in the room to release high sensible heat. Simple structure and small number of component parts. No oversaturation. No vapor condensation.

Clean surface with cascade.
High quality and high efficiency.
Save energy.

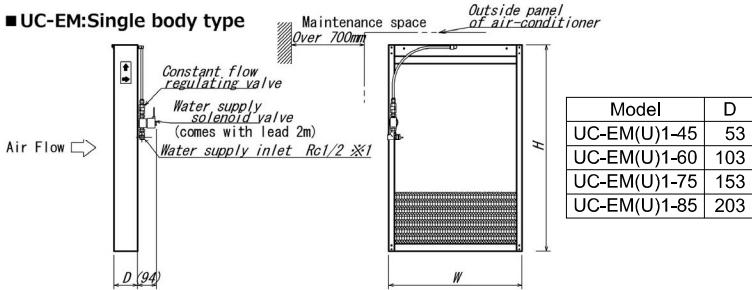
UCAN®

Features

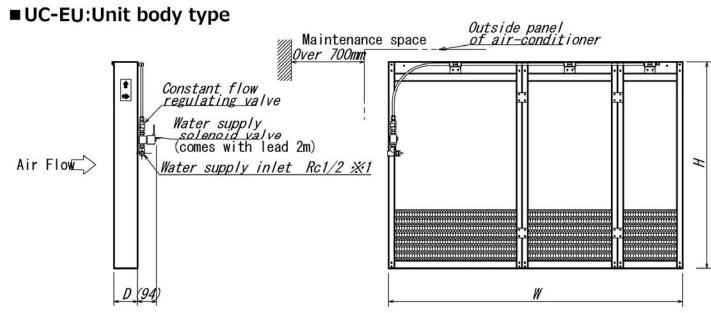
- Enhanced face velocity of water carry-over. Humidifier is applicable by face velocity 4.0...4.5 m/s.
- High quality element has high saturation efficiency by unique development structure.
- Element structure slopes down on one side so make it easy to clean the surface with cascade.
- Secondary function as air cleaning effect.
- Space saving and easy maintenance.
- Small electric capacity and use of tap water, special water treatment is not required.

Standard Dimensions(mm)

■ UC-EM:Single body type



■ UC-EU:Unit body type



※1 Size of water inlet is differed by required humidity.

※2 Other dimensions for the unit and mounting bracket more than above standard are available on request.

Applications

To be incorporated into various A/C systems : total heat exchanger unit, fan coil unit type, all-in-one A/C, chamber connected into duct, etc.



UC-EU1 type installed into AHU.

UCAN Technology - High quality element UC-CORE



Made of high absorbent polymeric fiber, shape-retaining intensity is high, honeycombed lamination and adhesive type. Uses pollution free materials complied with Food Sanitation Law and also any harmful substances designated by RoHS are not included. It passed the mold resistance test and anti-bacteria test for textile products and flame resistance test. There is no porus in the element. Even if the odor is adhered to the surface of element, it will be released easily. Treat disposable as general garbage.

Specifications

Model	UC-E○1-45	UC-E○1-60	UC-E○1-75	UC-E○1-85
Depth of Module (mm)	53	103	153	203
Applicable saturation efficiency	(Bypass type) ≤23...45%	46...61%	62...75%	76...85%
Applicable face velocity *1	1.5...4.0 m/s	1.5...4.5 m/s	1.5...4.5 m/s	1.5...4.5 m/s
Element material	High absorbent polymeric fiber (Honeycombed lamination, adhesive type)			
Element's heat resisting temperature	120 °C			
Element's combustibility	Passed JIS-1091 (Flame resistance test)			
Sanitation	Anti-bacteria and Mold resistance process. Complied with Food Sanitation Law. Passed JIS-L-1092 (Anti-bacteria test for textile products) Passed JIS-Z-2911 (Mold resistance test)			
Main components	Humidifier module (Element, Sprinkler system, Water supply kit, Body case)			
Tolerant range of operating conditions	Ambient temperature and humidity	Module body : 2...60 °C Water supply kit : 2...50 °C, Max. 90 %RH		
	Water supply temperature	2...40 °C		
	Water supply pressure	<ul style="list-style-type: none"> Water supply selected range : 0.6...5.5 L / min, Water supply inlet pressure : 0.08...0.7 MPa Water supply : ≤5.6 L / min, Water supply inlet pressure ; 0.08...0.5 MPa Water supply : ≤0.59 L / min, Water supply inlet pressure ; 0.08...0.5 MPa 		
	Water quality	City water (Water quality standards for drinking water must be kept.)		
	Air inlet *2	Air filter which is upper 75% by gravimetric method must be installed.		
	Power supply	1φ 2W AC230V Other power supply types can be available on request.		

※ Cross connection control should be applied. Directly in connection with pipe for city water should be avoided.

*1 It may be less than these values, depending on the operational conditions and the size of humidifier.

*2 Necessary particularly in case of an air conditioner treating outdoor air.

Your best humidifier of confidence

Specifications are subject to change without notice.
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UCAN® UCAN CO., LTD.

5-6-19 SANDA-MACHI, HACHIOJI-SHI, TOKYO 193-0832, JAPAN

URL <http://www.ucan.co.jp/eng/>

E-mail : ucan-information@ucan.co.jp

TEL +81-42-665-8846 FAX +81-42-661-3887

UCAN humidifier - made in JAPAN



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No.1524-ISO9001
No E2094-ISO14001

