

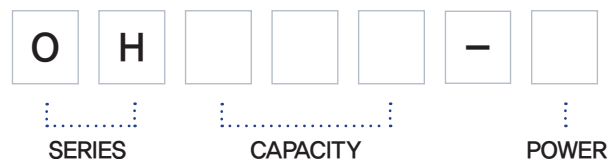
OH-Series

> OVERVIEW

OEM type humidifiers that are designed to have the structure and the systems that allow the humidifier to be applicable in AHU or ACU. This series products have been selected by leading domestic and foreign companies because of their special features. They have wide capacity range and allow proportional control (4–20mA / 0–10V) without external electrical device due to a dedicated controller (E–HUMS) adopted.



> CLASSIFICATION



> FEATURES

INSTALLATION	Floor/Wall mounting – both available. One-touch connection for 1/4 inch copper pipe. Direction changeable for drain connection.
MANUAL DRAIN	In addition to the drain pump, a manual drain lever is installed for convenient inspection.
ON/OFF, MODULATION CONTROL	Various controller available – OEM controller (E–HUMS), AHU controller (STHAV, ST31), Stand alone type controller (SI–HUMP)
REPULSION TYPE DRAIN PUMP	A strong drain pump is applied to prevent clogging by sludge, prolonging product life and minimizing service occurrence.
PLUG-IN SCHEME	The humidification cylinder, drain pump, water supply valve, and power connector are designed in a plug-in type rather than a fixed type, so inspection is convenient.

OH-Series

max. 4kg/h	SPEC	OH004-1	OH004-2	OH004-3	OH004-6	OH004-7
	Power supply	1P 220V 60Hz	3P 220V 60Hz	3P 380V 60Hz	1P 230V 50Hz	3P 380V 50Hz
	Capacity	4 [kg/h]				
	Consumption	3.0 [kW]				
	Rated current	13.7 [A]	7.9 [A]	4.6 [A]	13.7 [A]	4.6 [A]
	Cylinder	CY004-1	CY004-2	CY004-3	CY004-3	CY004-3
	W×D×H/Weight	240×232×456 / 3.7kg				
	Water Inlet	1P 220VAC, 1/4inch for copper pipe & water purifier hose, 2~8 [bar]				
	Drain	1P 220VAC, ID22 [mm]Heat resistance hose, 8 ℓ /min				

max. 8kg/h



SPEC	OH006-1	OH008-2	OH008-3	OH008-7
Power supply	1P 220V 60Hz	3P 220V 60Hz	3P 380V 60Hz	3P 380V 50Hz
Capacity	6 [kg/h]	8 [kg/h]		
Consumption	4.5 [kW]	6.0 [kW]		
Rated current	20.5 [A]	15.8 [A]	9.1 [A]	
Cylinder	CY006-1	CY008-2	CY008-3	
W×D×H/Weight	240×232×516 / 4.2kg			
Water Inlet	1P 220VAC, 1/4inch for copper pipe & water purifier hose, 2~8 [bar]			
Drain	1P 220VAC, ID22 [mm]Heat resistance hose, 8 ℓ /min			

	SPEC	OH015-2	OH015-3	OH015-7
	Power supply	3P 220V 60Hz	3P 380V 60Hz	3P 380V 50Hz
	Capacity	15 [kg/h]		
	Consumption	11.3 [kW]		
	Rated current	29.5 [A]	17.1 [A]	
	Cylinder	CY015-2	CY015-3	
	W×D×H/Weight	290×256×576 / 5.5kg		
	Water Inlet	1P 220VAC, 1/4inch for copper pipe & water purifier hose, 2~8 [bar]		
	Drain	1P 220VAC, ID22 [mm]Heat resistance hose, 8 ℓ /min		

	SPEC	OH030-2	OH045-3	OH045-7
	Power supply	3P 220V 60Hz	3P 380V 60Hz	3P 380V 50Hz
	Capacity	30 [kg/h]	45 [kg/h]	
	Consumption	22.5 [kW]	33.8 [kW]	
	Rated current	59.1 [A]	51.3 [A]	
	Cylinder	CY030-2	CY045-3	
	W×D×H/Weight	360×330×665 / 14.5kg		
	Water Inlet	1P 220VAC, 1/4inch for copper pipe & water purifier hose, 2~8 [bar]		
	Drain	1P 220VAC, ID22 [mm]Heat resistance hose, 8 ℓ /min		

BH-Series

> OVERVIEW

BH-series is a stand-alone humidifier with a new design and technology that maximizes the various needs of customers and user convenience. With an advanced European design and structure, it can be installed in air-conditioning facilities and indoor places that require humidification. It provides 9 different operation modes and multi-input as standard, and it can be configured from small capacity (2kg/h) to large capacity (360kg/h) through interlocking operation (Master/Slave) between up to 8 units. Provides a temperature control function by NTC so that it can be used in personal SPA function facilities using the generated steam.



> CLASSIFICATION



> FEATURES

INSTALLATION	Provides 9 kinds of operation modes accepts any user's requirements. -REMOTE -LOCAL -PROPORTIONAL
HIGH LIMIT SENSOR	The humidification capacity can be controlled by configuring a separate humidity sensor in the discharge duct to suppress the symptoms of overhumidification inside the duct due to changing seasons or excessive humidification requirements. (OPTION)
ON/OFF, MODULATION CONTROL	Using Seungil Electronics' exclusive controller for electrode steam humidifier, not only basic ON/OFF operation but also capacity control by proportional input is possible.
MASTER / SLAVE	Based on 4, 8, 15, 45kg/h units, a wide range of humidification systems can be easily configured through interlocking operation between equipment. (2~360kg/h)
MULTI INPUT	To accommodate the variety of humidity sensor or remote control, 5 different input methods are provided as standard. (4~20mA/0~20mA), (2~10VDC/0~10VDC), (NTC)

BH-Series

	max. 4kg/h	SPEC	BH004-1	BH004-2	BH004-3	BH004-7
	Power Supply		1P 220V 60Hz	3P 220V 60Hz	3PN 60Hz 380-415V	3PN 50Hz 380-415V
	Capacity		4 [kg/h]			
	Consumption		3.0 [kW]			
	Rated Current		13.7 [A]	7.9 [A]	4.6 [A]	
	Cylinder		CY004-1	CY004-2	CY004-3	
	Control Power		1P 220-240VAC, 24VAC			
	W×D×H/Weight		400×320×622 / 20kg			
	Water Inlet		1/4inch for copper pipe & water purifier hose 2~8 [bar]			
	Drain		ID22 [mm]Heat resistance hose, 8 ℓ /min			
Option		Steam nozzle, Steam hose, FANUNIT, Humidity probe, NTC, Floor Mounting Leg				

	SPEC	BH008-2	BH008-3	BH008-7
	Power Supply	3P 220V 60Hz	3PN 60Hz 380-415V	3PN 50Hz 380-415V
	Capacity	8 [kg/h]		
	Consumption	6 [kW]		
	Rated Current	15.8 [A]	9.1 [A]	
	Cylinder	CY008-2	CY008-3	
	Control Power	1P 220-240VAC, 24VAC		
	W×D×H/Weight	400×320×622 / 21kg		
	Water Inlet	1/4inch for copper pipe & water purifier hose, 2~8 [bar]		
	Drain	ID22 [mm]Heat resistance hose, 8 ℓ /min		
Option	Steam nozzle, Steam hose, FANUNIT, Humidity probe, NTC, Floor Mounting Leg			

max. 15kg/h



SPEC	BH015-2	BH015-3	BH015-7
Power Supply	3P 220V 60Hz	3PN 60Hz 380-415V	3PN 50Hz 380-415V
Capacity	15 [kg/h]		
Consumption	11.3 [kW]		
Rated Current	29.5 [A]	17.1 [A]	
Cylinder	CY015-2	CY015-3	
Control Power	1P 220-240VAC, 24VAC		
W×D×H/Weight	400×320×682 / 23kg		
Water Inlet	1/4inch for copper pipe & water purifier hose, 2~8 [bar]		
Drain	ID22[mm]Heat resistance hose, 8 ℓ /min		
Option	Steam nozzle, Steam hose, FANUNIT, Humidity probe, NTC, Floor Mounting Leg		

	max. 45kg/h	SPEC	BH030-2	BH045-3	BH045-7
		Power Supply	3P 220V 60Hz	3PN 60Hz 380-415V	3PN 50Hz 380-415V
		Capacity	30 [kg/h]	45 [kg/h]	
		Consumption	22.5 [kW]	33.8 [kW]	
		Rated Current	59.1 [A]	51.3 [A]	
		Cylinder	CY030-2	CY045-3	
		Control Power	1P 220-240VAC, 24VAC		
		W×D×H/Weight	520×350×750 / 40kg		
		Water Inlet	1/4inch for copper pipe & water purifier hose, 2~8[bar]		
		Drain	ID22[mm]Heat resistance hose, 8 ℓ /min		
	Option	Steam nozzle, Steam hose, FANUNIT, Humidity probe, NTC, Floor Mounting Leg			

BH-Series

max. 90kg/h



SPEC	BH060-X	BH090-X
Power Supply	3P 220V	3P 380 – 690V
Capacity	60[kg/h]	90[kg/h]
Consumption	45.0[kW]	67.5[kW]
Rated Current	118.1[A]	102.6[A] / 380V
Cylinder	CY030-2×2cycle	CY045-3×2cycle
Control Power	1P 220VAC / TR built-in (380V)	
W×D×H/Weight	920×375×890 / 67kg (Height 260mm base provided)	
Water Inlet	2~8[bar], 15A socket	
Drain	ID22[mm]Heat resistance hose, 8 ℓ /min, 25A socket	
Control Method	On/Off, Proportional (capacity) control	

max. 135kg/h



SPEC	BH135-X
Power Supply	3P 380 – 690V
Capacity	135 [kg/h]
Consumption	101.3 [kW]
Rated Current	153.8 [A] / 380V
Cylinder	CY045-3×3cycle
Control Power	1P 220VAC / TR built-in (380V)
W×D×H/Weight	1,500×520×1,260 / 158kg
Water Inlet	2~8 [bar], 15A socket
Drain	25A socket
Control Method	On/Off, Proportional (capacity) control

※ This product is a non-standard management product according to the needs of the consumer.

max. 270kg/h

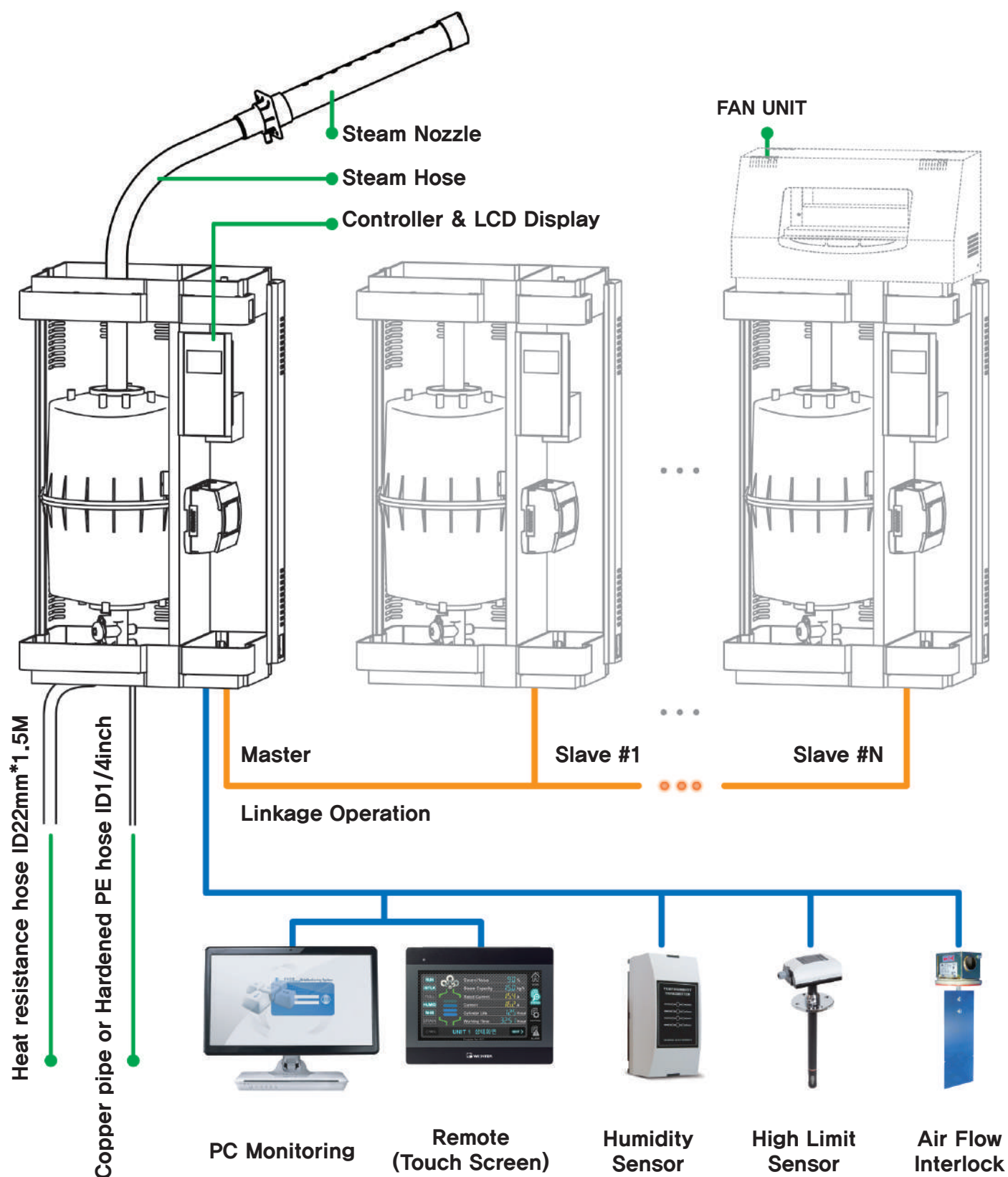


SPEC	BH180-X	BH270-X
Power Supply	3P 380V – 690V	3P 380 – 690V
Capacity	180 [kg/h]	270 [kg/h]
Consumption	135 [kW]	202.5 [kW]
Rated Current	205 [A] / 380V	308 [A] / 380V
Cylinder	CY045-3×4cycle	CY045-3×6cycle
Control Power	1P 220VAC / TR built-in (380V)	
W×D×H/Weight	1100×620×1960	1700×840×2100
Water Inlet	2~8 [bar], 20A socket	2~8 [bar], 20A socket
Drain	40A socket	50A socket
Control Method	On/Off, Proportional (capacity) control	

※ This product is a non-standard management product according to the needs of the consumer.

BH-Series

> COMPOSITION



BH-Series All-in-one fan unit

max. 4kg/h



SPEC	BH004-1F	BH004-2F	BH004-3F	BH004-7F
Power Supply	1P 220V 60Hz	3P 220V 60Hz	3PN 60Hz 380-415V	3P 50Hz 380-415V
Capacity	4 [kg/h]			
Consumption	3.0 [kW]			
Rated Current	13.7 [A]	7.9 [A]	4.6 [A]	
Cylinder	CY004-1	CY004-2	CY004-3	
Control Power	1P 220VAC / TR built-in(380V)			
W×D×H/Weight	920×375×890 / 67kg (Height 260mm base seperated)			
Water Inlet	1/4nch for copper pipe & water purifier hose 2~8 [bar]			
Drain	ID22 [mm] Heat resistance hose, 8 ℓ /min			
Control Method	On/Off, Proportional (capacity) control			
Humidity Sensor	SMX-RA-A4, 4~20mA			
Blower fan	Air volume : 2CMM, 48dB			

max. 8kg/h



SPEC	BH008-2F	BH008-3F	BH008-7F
Power Supply	3P 220V 60Hz	3PN 60Hz 380-415V	3P 50Hz 380-415V
Capacity	8 [kg/h]		
Consumption	6 [kW]		
Rated Current	15.8 [A]	9.1 [A]	
Cylinder	CY008-2	CY008-3	
Control Power	1P 220VAC / TR built-in(380V)		
W×D×H/Weight	920×375×890 / 67kg (Height 260mm base seperated)		
Water Inlet	1/4nch for copper pipe & water purifier hose, 2~8 [bar]		
Drain	ID22 [mm] Heat resistance hose, 8 ℓ /min		
Control Method	On/Off, Proportional (capacity) control		
Humidity Sensor	SMX-RA-A4, 4~20mA		
Blower fan	Air volume : 2CMM, 48dB		

max. 15kg/h



SPEC	BH015-2F	BH015-3F	BH015-7F
Power Supply	3P 220V 60Hz	3PN 60Hz 380-415V	3P 50Hz 380-415V
Capacity	15[kg/h]		
Consumption	11.3[kW]		
Rated Current	29.5[A]	17.1[A]	
Cylinder	CY015-2	CY015-3	
Control Power	1P 220VAC / TR built-in(380V)		
W×D×H/Weight	431×307×910 / 33kg (Height 260mm base seperated)		
Water Inlet	1/4nch for copper pipe & water purifier hose, 2~8 [bar]		
Drain	ID22 [mm]Heat resistance hose, 8 ℓ /min		
Control Method	On/Off, Proportional (capacity) control		
Humidity Sensor	SMX-RA-A4, 4~20mA		
Blower fan	Air volume : 4.2CMM, 48dB		

※ This product is a non-standard management product according to the needs of the consumer.

> TIP

MODEL	20℃ / 40%	20℃ / 50%	25℃ / 40%	25℃ / 50%	30℃ / 40%	30℃ / 50%
max. 4kg/h	181m ²	132m ²	122m ²	99m ²	92m ²	72m ²
max. 8kg/h	347m ²	264m ²	247m ²	198m ²	181m ²	145m ²
max. 15kg/h	628m ²	495m ²	476m ²	363m ²	347m ²	264m ²

※ This data is a value calculated by a theoretical formula and may vary depending on site conditions (outside air, ventilation, cooling load),etc.

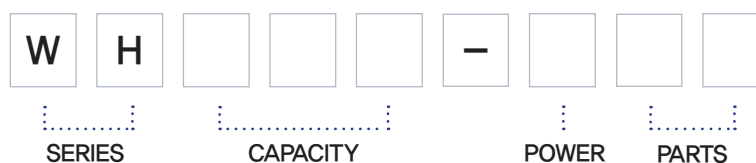
WH-Series

OVERVIEW

WH-series is a compact type electrode steam humidifier. With a new design that breaks away from the existing electrode steam humidifier, the height of the product is lowered by more than 50%, so it can be easily installed in air conditioners or air conditioners/heaters. The external appearance of the product is composed of a ratio similar to that of the existing electric humidifier, so it is convenient to apply alternatively to the electric humidifier.



CLASSIFICATION



FEATURES

INSTALLATION

Due to the characteristics of the humidifier, it is a horizontal structure that breaks away from the basic common sense of the electrode steam humidifier type, which has been developed and produced only in a vertical structure, and minimizes the installation space by half the height of the existing 8kg/h humidifier.

QUICK RESPONSE

Since it consists of 6 electrodes, the initial operation is more than doubled with the same cross-sectional area, and the response is very good. (within 15 minutes of reaching the first rating based on tap water)

ELECTRODE

By improving the electrode material with a special alloy, it generates clean steam by minimizing rust caused by self-corrosion.

MAINTENANCE

To increase the convenience of cleaning and removing sludge from the inside of the humidification cylinder, the cylinder connection part has a locking lid structure.

SPECIFICATION

SPEC	WH004-1	WH008-3	
Power supply	1P 220V	3P 220V	3P 380V
Capacity	4[kg/h]	8[kg/h]	
Consumption	3.0[kW]	6.0[kW]	
Rated current	12.7[A]	15.8[A]	9.1[A]
Cylinder	CW004-1	CW008-3	
W×D×H/Weight	502x180x300 / 3.9kg *CA:5.3kg		
Supply valve	1P 220VAC, 1/4nch for copper pipe, 2~8[bar]		
Drain valve	1P 220VAC, OD13mm		

1. This product must be installed on the drain plate.

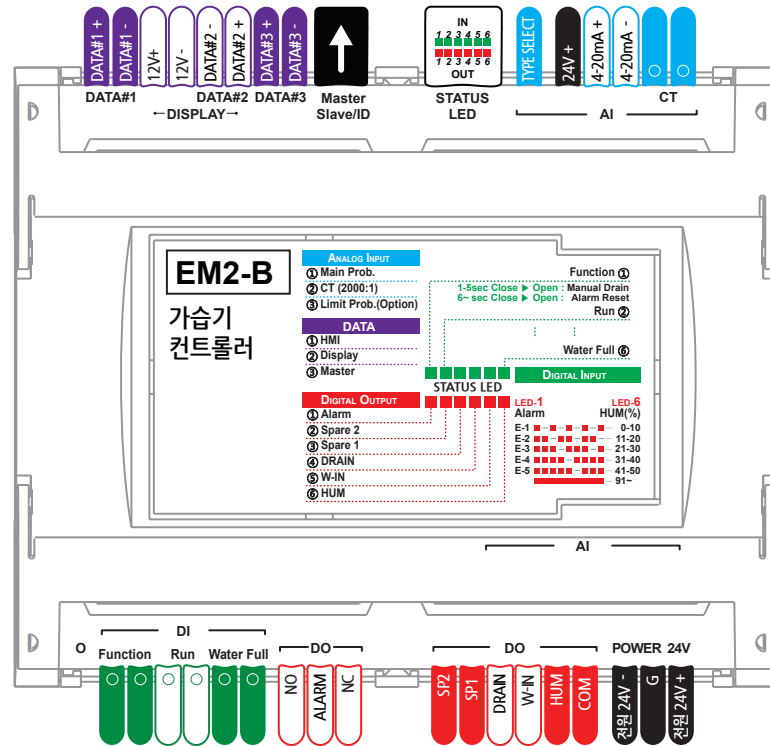
2. "CA" at the last code of specification means "Controller mounted model" . ex) WH008-3CA

Humidifier Controller EM2-Series

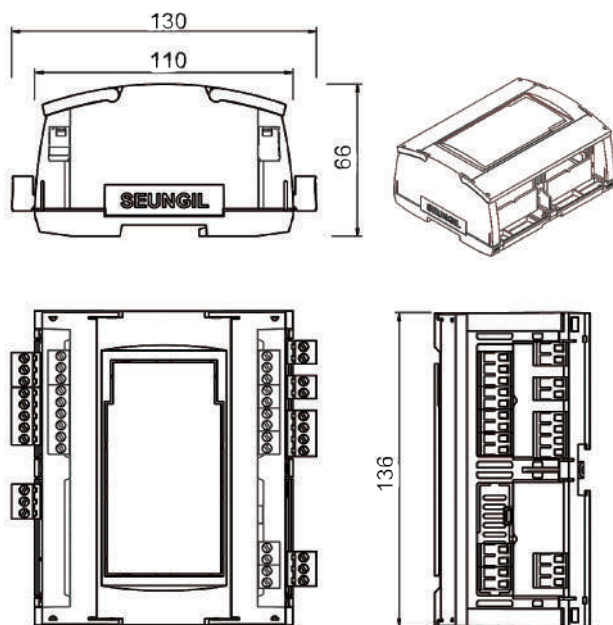
OVERVIEW

EM2 is a dedicated humidification controller for smooth operation and control of our humidifier. It provides various mode settings and multi-input, and can operate up to 8 devices through interlocked operation between devices.

I/O LIST



DRAWINGS



SPEC

POWER		24VDC 50/60Hz
INPUT/OUTPUT SPEC	DO (6 points)	① WATER INLET ② DRAIN ③ HUMIDIFICATION ④ ALARM ⑤ SPARE1 ⑥ SPARE2
	DI (3 points)	POWER ON ① FULL WATER(80~480V) POWER OFF ② REMOTE CONTROL ON/OFF ③ INTERLOCK
	AI (2CH)	CT MAIN SENSOR (Multi) 0-20mA, 4-20mA, 0-10VDC, 2-10VDC, NTC
	COMM. (3CH)	RS-485 DISPLAY, MASTER, SLAVE(HMI)
	expansion board (Option)	High-limits Sensor DI 3ports RTC(Real Time Clock)
	function	Humidifier water Humidifier capacity control Humidity control (ON/OFF, PI control)

Electric Steam Humidifier (Resistive)

OVERVIEW

Electric steam humidifiers (RH-series) are optimized for environments (disadvantages) where electrode steam humidifiers are difficult to apply, and can be used in environments where pure water is supplied or in chamber facilities that require precise humidity control.



[RH270-X]



[RU045-X]



[RH015-X]



[RU015-X]

CLASSIFICATION

R	H	X	X	X	-	X	X	◀ Stand Alone type (humidification unit + control box)
R	U	X	X	X	-	X	X	◀ Humidification unit
SERIES		CAPACITY (380V STANDARD)			SPEC CODE			

Electric Steam Humidifier (Resistive)

> FEATURES

HUMIDIFICATION	Due to the boiling water humidification method, there is no bacterial propagation, and clean humidification is possible because there is no corrosion and rust before and after humidification.
D.I. WATER USABLE	Unlike the electrode type, since the heater is used as a humidifying heat source, humidification is possible even when pure water(deionized water) is supplied, and the service cycle is prolonged.
TITANIUM HEATER	Corrosion caused by impurities is minimized by using a titanium heater with high strength and corrosion resistance.
DRAIN PUMP	An automatic drainage system through the accumulation of evaporation was applied. The generation of sludge inside the humidifier is minimized through the high torque drain pump, and there is no restriction or blockage by sludge, and there is no leakage.
SAFETY DEVICES	It is safe by installing a number of water level sensors, temperature sensors, and electrical safety devices.

> SPECIFICATION

Max. 15kg/h(380V기준)	SPEC	RH015
	Power supply	3P 380V
	Capacity	15[kg/h]
	Consumption	11.3[kW]
	Rated Current	17.1[A]
	Cylinder	RU015
	WxDxH/Weight	520 x 350 x 824 [mm]/51.8kg
	Water Inlet	1/4Inch for copper pipe & water purifier hose 2~8[bar]
	Drain	ID22[mm] Heat resistance hose, 8L/min

Max. 270kg/h(380V기준)	SPEC	RH270
	Power supply	3P 380V
	Capacity	270[kg/h]
	Consumption	202.5[kW]
	Rated Current	307.7[A]
	Cylinder	RU045
	WxDxH/Weight	1700 x 840 x 2300 [mm]/630kg
	Water Inlet	20A Socket, 2~8[bar]
	Drain	50A Socket

Electrode steam humidifier accessories

> CLASSIFICATION

K			-					
MODEL CODE				SPEC CODE				

> ACCESSORIES

WATER SUPPLY VALVE / KSV-1105



POWER	220V 50/60Hz
CURRENT	35mA
FLOW	10L/min
WEIGHT	124g
PRESSURE	1-10 Bar
INLET	3/4inch, PM
OUTLET	OD10.5mm

DRAIN VALVE / KDV-1 (For WH Series)



POWER	220V 50/60Hz
CURRENT	80mA
FLOW	3.5L/min
WEIGHT	132g
INLET	OD16mm
OUTLET	OD13mm

STEAM NOZZLE / KNS



4kg/h	KNS-230 (300mm)
8kg/h	KNS-240 (400mm)
15kg/h	KNS-350 (500mm)
45kg/h	KNS-470 (700mm)

STEAM HOSE

KSH-22

KSH-30

KSH-45



CYLINDER	Max. 4~8kg/h	Max. 15kg/h	Max. 30~45kg/h
ID	22mm	30mm	45mm
THICKNESS	4.5mm	5.25mm	6mm
OD	31mm	40.5mm	57mm
TEMP.	-25~105°C		
MATERIAL	[Inside] TPV + Galvanized steel spring [Outside] TPV + Polyester fiber		
CURVE RADIUS	75mm	85mm	120mm

DRAIN PUMP

KDP-4511

KDP-1511



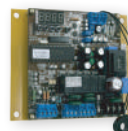
POWER	220V 60Hz	220V 50Hz
CURRENT	0.2A	
FLOW	8L/min	
WEIGHT	534g	
HEAD	1.5M	
INLET	13mm	
OUTLET	18mm	

CONDENSING HOSE/ KCH-09



ID	9mm
THICKNESS	2mm
OD	13mm
MATERIAL	Silicone
COLOR	Dark Gray
TEMP.	-25~180°C

CONTROLLER / E-HUMS



POWER	100-250VAC 50/60Hz
W×D×H	152 x 120 x 50
WEIGHT	150g

CONTROLLER / EM2



POWER	24VAC 50/60Hz
W×D×H	136 x 110 x 66
WEIGHT	110g

POWER CONNECTOR

KPC-5

KPC-6



SPEC	ID 5mm	ID 6mm
CLAMP	HEXA WRENCH M6	
CURRENT	690VAC 45A	
WIRE	1.5sq - 10sq	

CYLINDER

Max. 4kg/h

Max. 6,8kg/h

Max. 15kg/h

Max. 30,45kg/h

Max. 4,8kg/h



Ø200mm/height: 290mm
weight: 0.9kg



Ø200mm/height: 350mm
weight: 1.1kg



Ø252mm/height: 416mm
weight: 2kg



Ø320mm/height: 515mm
weight: 5.8kg



WxDxH: 320x170x290mm
weight: 1.4kg

CY004-1	1~ 220V	CY006-1	1~ 220V	CY015-2	3~ 220V	CY030-3	3~ 220V	CW008-3	3~ 220V -380V
CY004-2	3~ 220V	CY008-2	3~ 220V	CY015-3	3~ 380V	CY045-3	3~ 380V	CW004-1	1~220V
CY004-3	3~ 380V	CY008-3	3~ 380V						